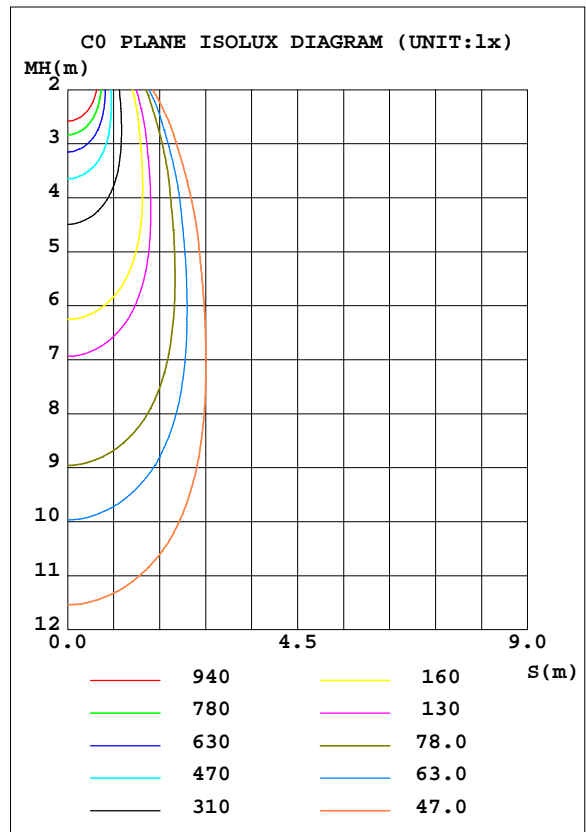
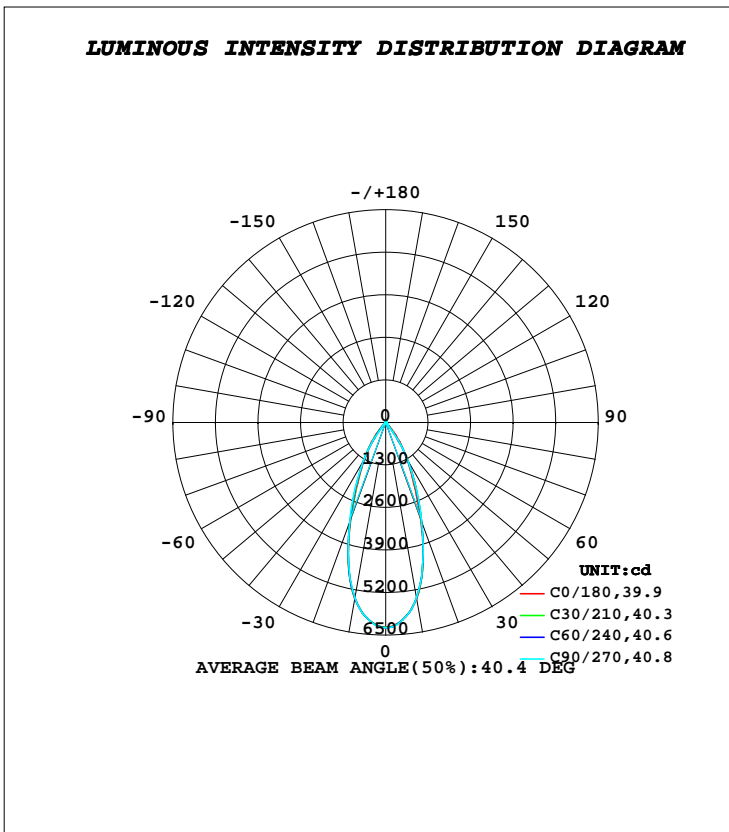


**LUMINAIRE PHOTOMETRIC TEST REPORT**

Test:U:221.70V I:0.1700A P:36.800W PF:0.9740 Freq:50.00Hz		
Lamp Flux:3406.84x1 lm		
Name: NS98-φ140mm-40W	Type: LED	
MFR.: Lumega Group	DIM.: D140*H254mm	
	SUR.: D95mm	

DATA OF LAMP		PHOTOMETRIC DATA Eff: 92.58 lm/W			
MODEL		I <sub>max</sub> (cd)	6270	S/MH(C0/180)	0.65
NOMINAL POWER(W)	40	LOR(%)	100.0	S/MH(C90/270)	0.66
RATED VOLTAGE(V)	220	TOTAL FLUX(lm)	3406.8	η UP, DN(C0-180)	1.4, 48.6
NOMINAL FLUX(lm)	3406.84	CIE CLASS	DIRECT	η UP, DN(C180-360)	1.4, 48.6
LAMPS INSIDE	1	η up(%)	2.9	CIBSE SHR NOM	0.50
TEST VOLTAGE(V)	220	η down(%)	97.1	CIBSE SHR MAX	0.70



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-05-04**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**ZONAL FLUX DIAGRAM**

**ZONAL FLUX DIAGRAM:**

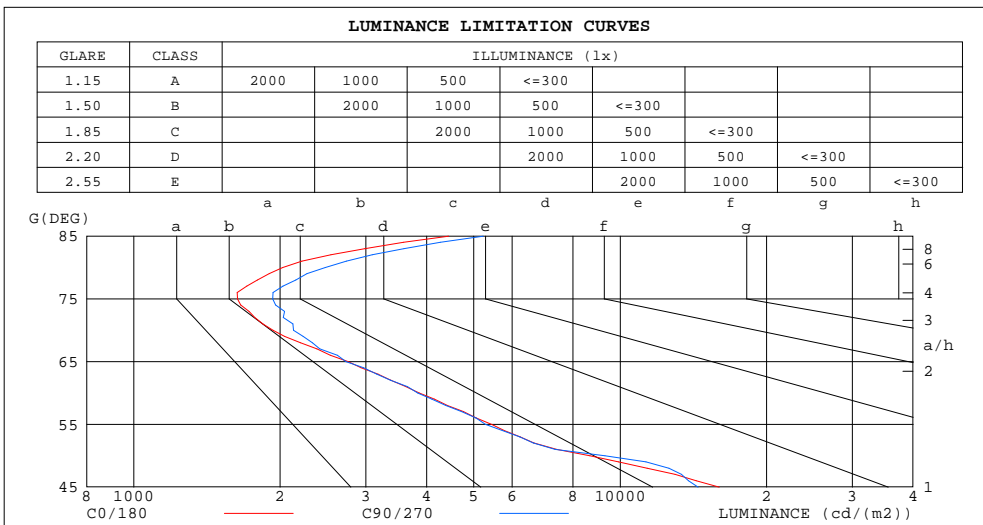
$\gamma$	C0	C45	C90	C135	C180	C225	C270	C315	$\gamma$	$\Phi$ zone	$\Phi$ total	%lum,lamp
10	5461	5452	5449	5455	5461	5455	5449	5452	0- 10	559.0	559.0	16.4,16.4
20	3116	3197	3228	3172	3116	3172	3228	3197	10- 20	1207	1766	51.8,51.8
30	1332	1361	1372	1352	1332	1352	1372	1361	20- 30	982.6	2748	80.7,80.7
40	392.6	186.3	107.0	249.8	392.6	249.8	107.0	186.3	30- 40	454.0	3202	94,94
50	38.98	41.08	41.88	40.43	38.98	40.43	41.88	41.08	40- 50	70.32	3273	96.1,96.1
60	13.54	13.45	13.42	13.48	13.54	13.48	13.42	13.45	50- 60	20.29	3293	96.7,96.7
70	4.633	4.969	5.098	4.865	4.633	4.865	5.098	4.969	60- 70	8.396	3301	96.9,96.9
80	2.459	2.855	3.007	2.733	2.459	2.733	3.007	2.855	70- 80	3.697	3305	97,97
90	3.200	3.478	3.585	3.393	3.200	3.393	3.585	3.478	80- 90	3.290	3308	97.1,97.1
100	4.769	4.674	4.638	4.704	4.769	4.704	4.638	4.674	90-100	4.356	3313	97.2,97.2
110	7.297	7.127	7.062	7.179	7.297	7.179	7.062	7.127	100-110	6.134	3319	97.4,97.4
120	11.54	11.07	10.90	11.22	11.54	11.22	10.90	11.07	110-120	8.923	3328	97.7,97.7
130	17.96	17.40	17.19	17.57	17.96	17.57	17.19	17.40	120-130	12.62	3340	98.1,98.1
140	26.26	25.83	25.66	25.96	26.26	25.96	25.66	25.83	130-140	16.63	3357	98.5,98.5
150	34.38	34.27	34.22	34.30	34.38	34.30	34.22	34.27	140-150	18.91	3376	99.1,99.1
160	37.86	38.39	38.59	38.23	37.86	38.23	38.59	38.39	150-160	17.03	3393	99.6,99.6
170	35.43	35.29	35.24	35.33	35.43	35.33	35.24	35.29	160-170	10.52	3404	99.9,99.9
180	34.62	33.77	33.44	34.03	34.62	34.03	33.44	33.77	170-180	3.300	3407	100,100
DEG	LUMINOUS INTENSITY:cd									UNIT:lm		

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-05-04**

**$\gamma$  Range: 0 - 180DEG**  
 **$\gamma$  Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**LUMINANCE LIMITATION CURVES**

Test:U:221.70V I:0.1700A P:36.800W PF:0.9740 Freq:50.00Hz		
Lamp Flux:3406.84x1 lm		
Name: NS98-φ140mm-40W	Type: LED	
MFR.: Lumega Group	DIM.: D140*H254mm	
	SUR.: D95mm	



LUMINANCE cd/(m2)		
G( DEG)	C0/180	C90/270
85	4440	5230
80	2023	2474
75	1633	1931
70	1935	2129
65	2763	2733
60	3867	3833
55	5446	5290
50	8664	9308
45	15971	14456

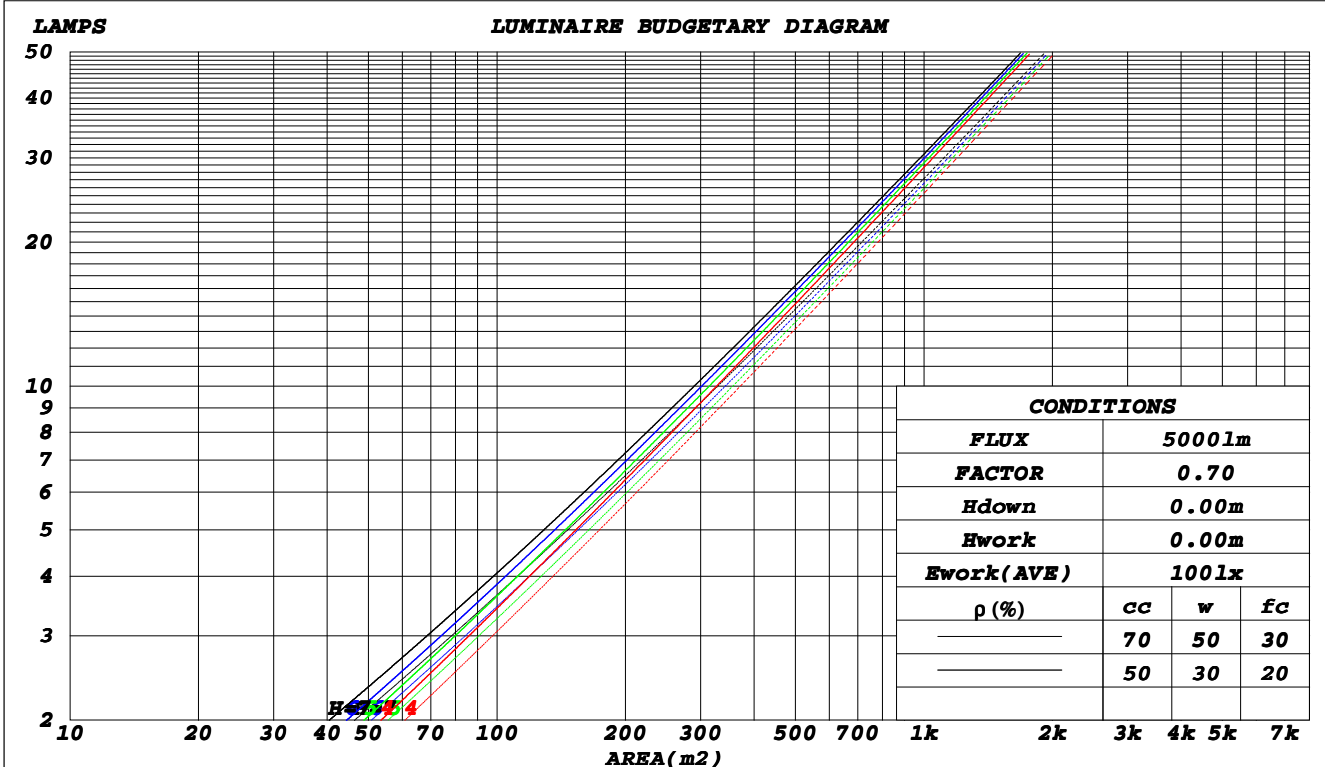
**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-05-04**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**

**CU AND LUMINAIRE BUDGETARY ESTIMATE DIAGRAM**

Test:U:221.70V I:0.1700A P:36.800W PF:0.9740 Freq:50.00Hz		
Lamp Flux:3406.84x1 lm		
Name: NS98-φ140mm-40W	Type: LED	
MFR.: Lumega Group	DIM.: D140*H254mm	
	SUR.: D95mm	

ρcc	80%			70%			50%			30%			10%			0
ρw	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρfc	20%			20%			20%			20%			20%			0
RCR	RCR:Room Cavity Ratio									Coefficients of Utilization(CU)						
0.0	1.18	1.18	1.18	1.15	1.15	1.15	1.10	1.10	1.10	1.04	1.04	1.04	.99	.99	.99	.97
1.0	1.11	1.08	1.06	1.08	1.06	1.04	1.04	1.02	1.01	.98	.98	.97	.96	.95	.94	.92
2.0	1.04	1.00	.97	1.02	.99	.96	.98	.96	.93	.95	.93	.91	.92	.90	.89	.87
3.0	.98	.93	.90	.96	.92	.89	.93	.90	.87	.90	.88	.85	.88	.86	.84	.82
4.0	.92	.87	.83	.91	.86	.83	.88	.85	.82	.86	.83	.80	.84	.81	.79	.78
5.0	.87	.82	.78	.86	.81	.78	.84	.80	.77	.82	.79	.76	.80	.77	.75	.73
6.0	.83	.77	.74	.82	.77	.73	.80	.76	.72	.78	.75	.72	.77	.74	.71	.70
7.0	.79	.73	.69	.78	.73	.69	.76	.72	.69	.75	.71	.68	.74	.70	.68	.66
8.0	.75	.69	.66	.74	.69	.66	.73	.68	.65	.72	.68	.65	.71	.67	.64	.63
9.0	.71	.66	.63	.71	.66	.62	.70	.65	.62	.69	.65	.62	.68	.64	.61	.60
10.0	.68	.63	.60	.68	.63	.59	.67	.62	.59	.66	.62	.59	.65	.61	.59	.57



C Range: 0 - 360DEG  
 C Interval: 30.0DEG  
 Test Speed: HIGH  
 Temperature:25.3DEG  
 Operators:DAMIN  
 Test Date:2022-05-04

γ Range: 0 - 180DEG  
 γ Interval: 1.0DEG  
 Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443  
 Humidity:65.0%  
 Test Distance:8.000m [K=0.7063]  
 Remarks:

**WEC AND CCEC**

Test:U:221.70V I:0.1700A P:36.800W PF:0.9740 Freq:50.00Hz		
Lamp Flux:3406.84x1 lm		
Name: NS98-φ140mm-40W	Type: LED	
MFR.: Lumega Group	DIM.: D140*H254mm	
	SUR.: D95mm	

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Wall Exitance Coefficients(WEC)</b>									
0.0																
1.0	.166	.094	.030	.158	.090	.029	.144	.083	.026	.131	.076	.024	.119	.069	.022	
2.0	.157	.086	.026	.150	.083	.025	.138	.077	.024	.127	.071	.022	.117	.066	.021	
3.0	.148	.079	.024	.142	.076	.023	.132	.072	.022	.123	.067	.021	.114	.063	.020	
4.0	.140	.073	.021	.135	.071	.021	.127	.067	.020	.118	.063	.019	.111	.060	.018	
5.0	.133	.068	.020	.129	.066	.019	.121	.063	.019	.114	.060	.018	.107	.057	.017	
6.0	.127	.064	.018	.123	.062	.018	.116	.060	.017	.110	.057	.017	.104	.055	.016	
7.0	.121	.060	.017	.118	.059	.017	.112	.056	.016	.106	.054	.016	.101	.052	.015	
8.0	.116	.057	.016	.113	.056	.016	.107	.054	.015	.102	.052	.015	.097	.050	.015	
9.0	.111	.054	.015	.108	.053	.015	.103	.051	.014	.099	.049	.014	.094	.048	.014	
10.0	.107	.051	.014	.104	.050	.014	.100	.049	.014	.095	.047	.013	.091	.046	.013	

ρ <sub>cc</sub>	80%			70%			50%			30%			10%			0
ρ <sub>w</sub>	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	50%	30%	10%	0
ρ <sub>fc</sub>	20%			20%			20%			20%			20%			0
<b>RCR</b>	<b>RCR:Room Cavity Ratio</b>						<b>Ceiling Cavity Exitance Coefficients(CCEC)</b>									
0.0	.212	.212	.212	.182	.182	.182	.124	.124	.124	.071	.071	.071	.023	.023	.023	
1.0	.193	.180	.168	.165	.154	.145	.113	.106	.100	.065	.061	.058	.021	.020	.019	
2.0	.177	.155	.137	.151	.133	.118	.104	.092	.082	.060	.054	.048	.019	.017	.016	
3.0	.163	.136	.114	.140	.117	.099	.096	.081	.069	.056	.048	.041	.018	.015	.013	
4.0	.153	.121	.097	.131	.105	.084	.090	.073	.059	.052	.043	.035	.017	.014	.012	
5.0	.143	.109	.084	.123	.095	.073	.085	.066	.052	.049	.039	.031	.016	.013	.010	
6.0	.136	.100	.074	.117	.087	.065	.080	.061	.046	.047	.036	.027	.015	.012	.009	
7.0	.129	.092	.067	.111	.080	.058	.077	.056	.041	.044	.033	.024	.014	.011	.008	
8.0	.123	.086	.060	.106	.074	.053	.073	.052	.037	.043	.031	.022	.014	.010	.007	
9.0	.118	.081	.055	.101	.070	.048	.070	.049	.034	.041	.029	.020	.013	.010	.007	
10.0	.113	.076	.051	.098	.066	.045	.068	.047	.032	.039	.028	.019	.013	.009	.006	

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-05-04**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**UGR(Unified Glare Rating) Table**

Test:U:221.70V I:0.1700A P:36.800W PF:0.9740 Freq:50.00Hz		
Lamp Flux:3406.84x1 lm		
Name: NS98-φ140mm-40W	Type: LED	
MFR.: Lumega Group	DIM.: D140*H254mm	
	SUR.: D95mm	

ceiling/cavity	0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
walls	0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
working plane	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions	Viewed crosswise					Viewed endwise				
<b>x = 2H y = 2H</b>	<b>18.6</b>	<b>19.5</b>	<b>18.9</b>	<b>19.7</b>	<b>19.9</b>	<b>18.2</b>	<b>19.0</b>	<b>18.5</b>	<b>19.2</b>	<b>19.5</b>
<b>3H</b>	<b>18.5</b>	<b>19.2</b>	<b>18.8</b>	<b>19.5</b>	<b>19.7</b>	<b>18.1</b>	<b>18.8</b>	<b>18.3</b>	<b>19.1</b>	<b>19.3</b>
<b>4H</b>	<b>18.4</b>	<b>19.1</b>	<b>18.7</b>	<b>19.4</b>	<b>19.6</b>	<b>18.0</b>	<b>18.7</b>	<b>18.3</b>	<b>19.0</b>	<b>19.2</b>
<b>6H</b>	<b>18.3</b>	<b>19.0</b>	<b>18.6</b>	<b>19.3</b>	<b>19.6</b>	<b>17.9</b>	<b>18.6</b>	<b>18.2</b>	<b>18.9</b>	<b>19.2</b>
<b>8H</b>	<b>18.3</b>	<b>18.9</b>	<b>18.6</b>	<b>19.2</b>	<b>19.5</b>	<b>17.9</b>	<b>18.5</b>	<b>18.2</b>	<b>18.8</b>	<b>19.1</b>
<b>12H</b>	<b>18.2</b>	<b>18.8</b>	<b>18.6</b>	<b>19.2</b>	<b>19.5</b>	<b>17.8</b>	<b>18.5</b>	<b>18.2</b>	<b>18.8</b>	<b>19.1</b>
<b>4H 2H</b>	<b>18.4</b>	<b>19.1</b>	<b>18.7</b>	<b>19.4</b>	<b>19.6</b>	<b>18.0</b>	<b>18.7</b>	<b>18.3</b>	<b>18.9</b>	<b>19.2</b>
<b>3H</b>	<b>18.2</b>	<b>18.8</b>	<b>18.6</b>	<b>19.1</b>	<b>19.5</b>	<b>17.8</b>	<b>18.4</b>	<b>18.2</b>	<b>18.7</b>	<b>19.1</b>
<b>4H</b>	<b>18.1</b>	<b>18.7</b>	<b>18.5</b>	<b>19.0</b>	<b>19.4</b>	<b>17.7</b>	<b>18.3</b>	<b>18.1</b>	<b>18.6</b>	<b>19.0</b>
<b>6H</b>	<b>18.0</b>	<b>18.5</b>	<b>18.4</b>	<b>18.9</b>	<b>19.3</b>	<b>17.6</b>	<b>18.1</b>	<b>18.1</b>	<b>18.5</b>	<b>18.9</b>
<b>8H</b>	<b>18.0</b>	<b>18.4</b>	<b>18.4</b>	<b>18.8</b>	<b>19.3</b>	<b>17.6</b>	<b>18.1</b>	<b>18.0</b>	<b>18.5</b>	<b>18.9</b>
<b>12H</b>	<b>18.0</b>	<b>18.4</b>	<b>18.4</b>	<b>18.8</b>	<b>19.2</b>	<b>17.6</b>	<b>18.0</b>	<b>18.0</b>	<b>18.4</b>	<b>18.9</b>
<b>8H 4H</b>	<b>18.0</b>	<b>18.4</b>	<b>18.4</b>	<b>18.8</b>	<b>19.3</b>	<b>17.6</b>	<b>18.0</b>	<b>18.0</b>	<b>18.4</b>	<b>18.8</b>
<b>6H</b>	<b>17.9</b>	<b>18.3</b>	<b>18.4</b>	<b>18.7</b>	<b>19.2</b>	<b>17.5</b>	<b>17.9</b>	<b>18.0</b>	<b>18.3</b>	<b>18.8</b>
<b>8H</b>	<b>17.8</b>	<b>18.2</b>	<b>18.3</b>	<b>18.6</b>	<b>19.1</b>	<b>17.5</b>	<b>17.8</b>	<b>18.0</b>	<b>18.3</b>	<b>18.8</b>
<b>12H</b>	<b>17.8</b>	<b>18.1</b>	<b>18.3</b>	<b>18.6</b>	<b>19.1</b>	<b>17.5</b>	<b>17.8</b>	<b>18.0</b>	<b>18.2</b>	<b>18.8</b>
<b>12H 4H</b>	<b>17.9</b>	<b>18.3</b>	<b>18.4</b>	<b>18.8</b>	<b>19.2</b>	<b>17.5</b>	<b>17.9</b>	<b>18.0</b>	<b>18.4</b>	<b>18.8</b>
<b>6H</b>	<b>17.8</b>	<b>18.2</b>	<b>18.3</b>	<b>18.6</b>	<b>19.1</b>	<b>17.4</b>	<b>17.8</b>	<b>17.9</b>	<b>18.2</b>	<b>18.7</b>
<b>8H</b>	<b>17.8</b>	<b>18.1</b>	<b>18.3</b>	<b>18.6</b>	<b>19.1</b>	<b>17.4</b>	<b>17.7</b>	<b>17.9</b>	<b>18.2</b>	<b>18.7</b>
<b>Variations with the observer position at spacings(CIE Pub.117):</b>										
<b>S = 1.0H</b>	<b>+ 4.6 / - 9.7</b>					<b>+ 4.3 / - 5.8</b>				
<b>1.5H</b>	<b>+ 7.2 / - 8.6</b>					<b>+ 6.5 / - 5.0</b>				
<b>2.0H</b>	<b>+ 4.2 / - 2.6</b>					<b>+ 3.6 / - 2.4</b>				

CIE Pub.117, 3407 lm Total Lamp Luminous Flux Corrected (8log(F/F0) = 4.3)  
 Area: 0.007 m2

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-05-04**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**UTILIZATION FACTORS TABLE**

Test:U:221.70V I:0.1700A P:36.800W PF:0.9740 Freq:50.00Hz Lamp Flux:3406.84x1 lm		
Name: NS98-φ140mm-40W	Type: LED	
MFR.: Lumega Group	DIM.: D140*H254mm	
	SUR.: D95mm	

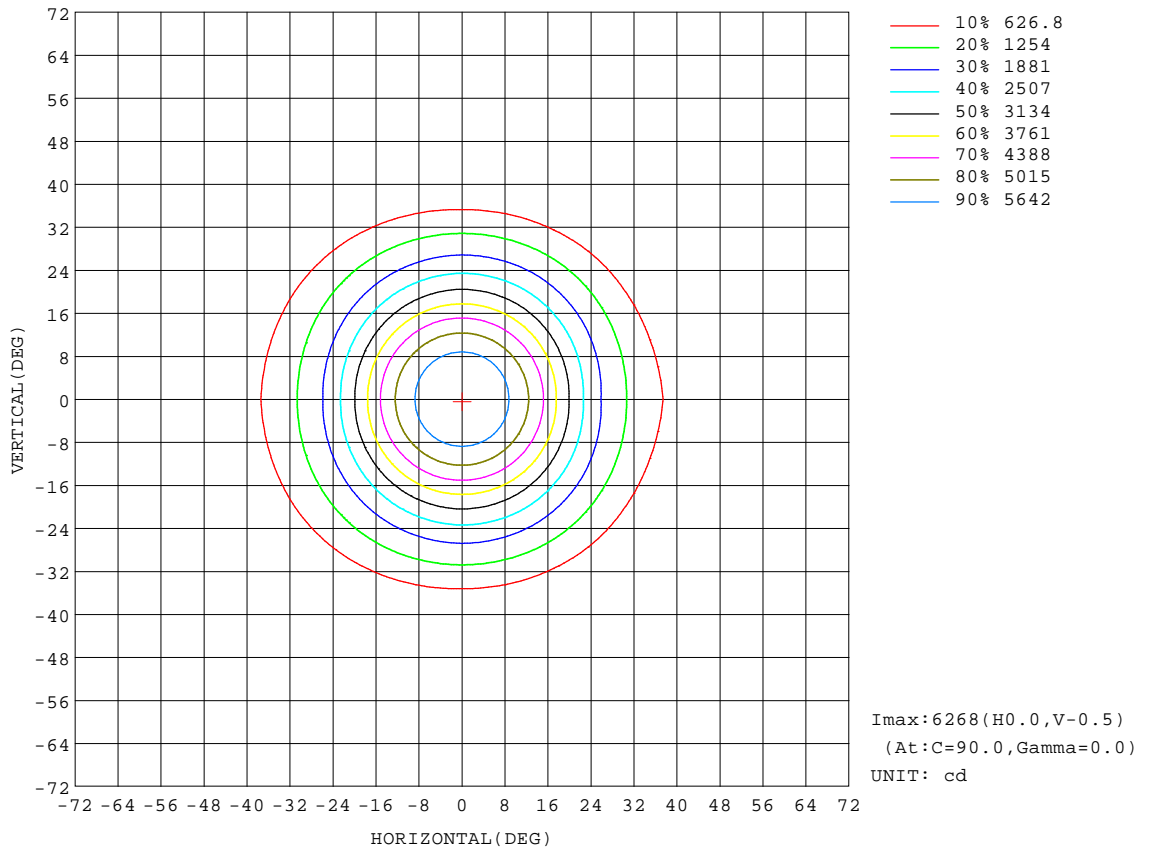
REFLECTANCE										
<b>Ceiling</b>	0.8	0.8	0.8	0.7	0.7	0.7	0.5	0.5	0.5	0
<b>Walls</b>	0.7	0.5	0.3	0.7	0.5	0.3	0.7	0.5	0.3	0
<b>Working plane</b>	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0
<b>ROOM INDEX</b>	<b>UTILIZATION FACTORS(PERCENT) <math>k(RI) \times RCR = 5</math></b>									
<b>k = 0.60</b>	88	82	78	87	82	78	86	81	78	74
<b>0.80</b>	95	89	86	94	89	86	93	88	85	81
<b>1.00</b>	99	94	90	98	93	90	96	93	89	85
<b>1.25</b>	103	98	95	102	97	94	99	96	93	89
<b>1.50</b>	106	101	98	104	100	97	102	98	96	91
<b>2.00</b>	108	104	101	106	103	100	103	100	98	92
<b>2.50</b>	110	106	103	108	105	102	104	102	100	93
<b>3.00</b>	111	108	105	109	106	104	105	103	101	94
<b>4.00</b>	113	110	108	111	109	107	107	105	104	96
<b>5.00</b>	114	112	110	112	110	109	108	106	105	97
<b>ROOM INDEX</b>	<b>UF(total)</b>									<b>Direct</b>
<b>According to DIN EN 13032-2 2004</b>			<b>Suspended</b>					<b>SHRNOM = 1.25</b>		

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature:25.3DEG**  
**Operators:DAMIN**  
**Test Date:2022-05-04**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System:EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity:65.0%**  
**Test Distance:8.000m [K=0.7063]**  
**Remarks:**

**ISOCANDELA DIAGRAM**

Test:U:221.70V I:0.1700A P:36.800W PF:0.9740 Freq:50.00Hz		
Lamp Flux:3406.84x1 lm		
Name: NS98-φ140mm-40W	Type: LED	
MFR.: Lumega Group	DIM.: D140*H254mm	
	SUR.: D95mm	



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-05-04**

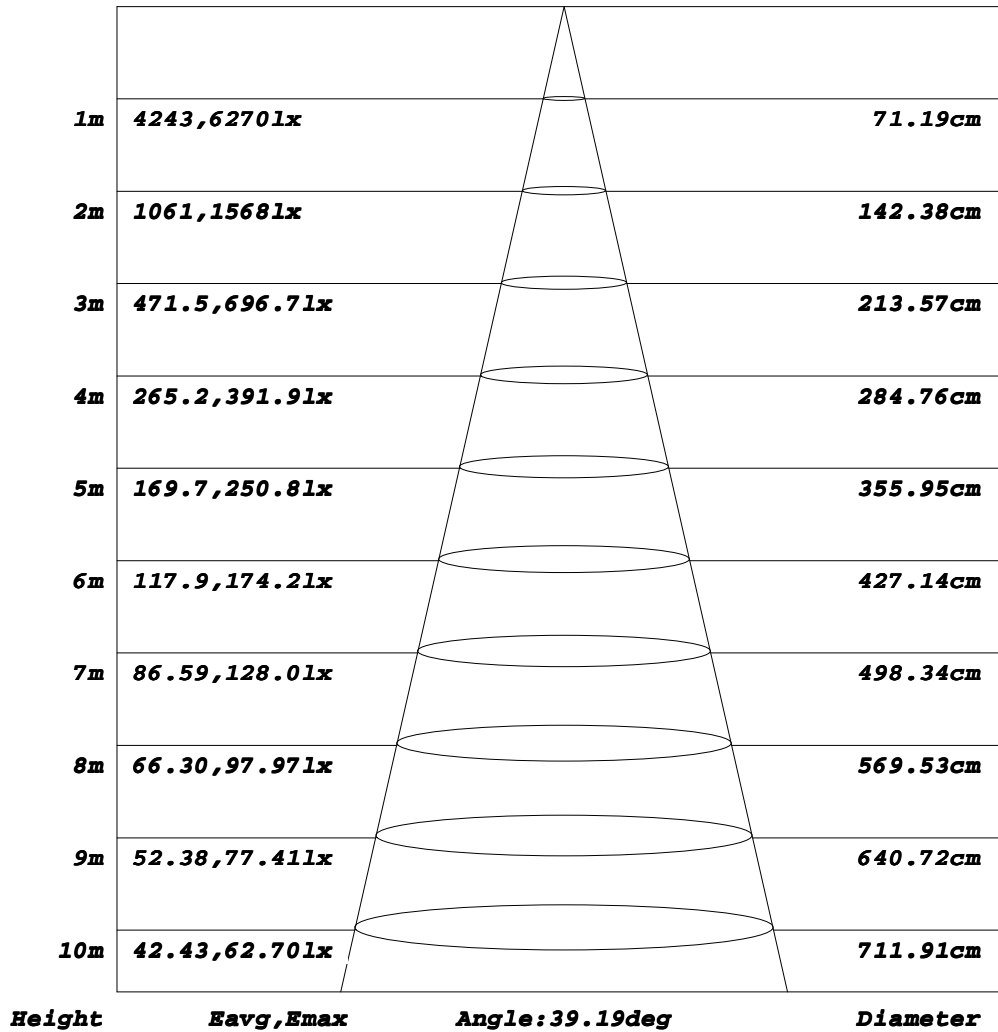
**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**



**AAI Figure**

Test:U:221.70V I:0.1700A P:36.800W PF:0.9740 Freq:50.00Hz		
Lamp Flux:3406.84x1 lm		
Name: NS98-φ140mm-40W	Type: LED	
MFR.: Lumega Group	DIM.: D140*H254mm	
	SUR.: D95mm	

**Flux out:1766 lm**



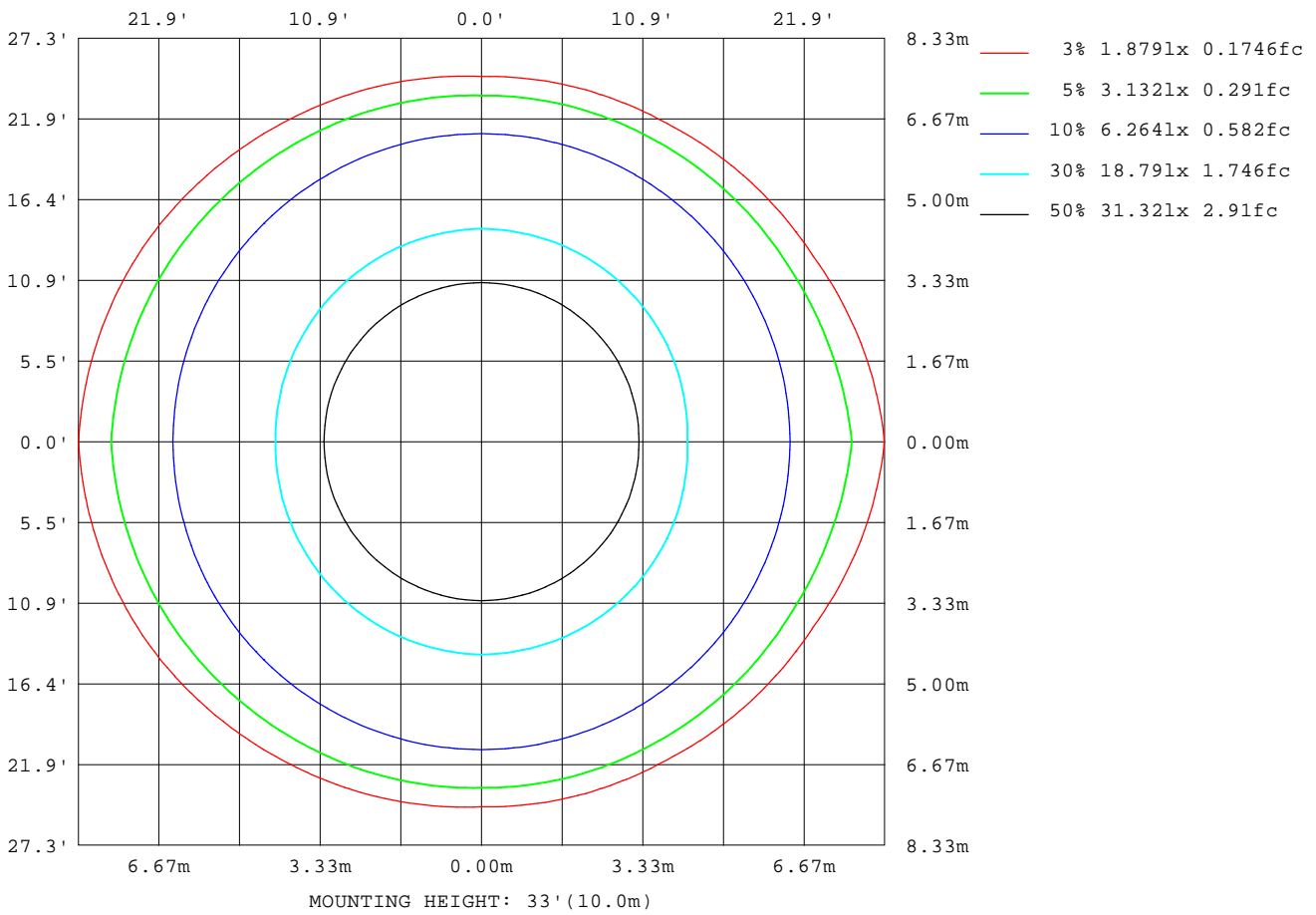
Note: The Curves indicate the illuminated area and the average illumination when the luminaire is at different distance.

**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-05-04**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**

**ISOLUX DIAGRAM**

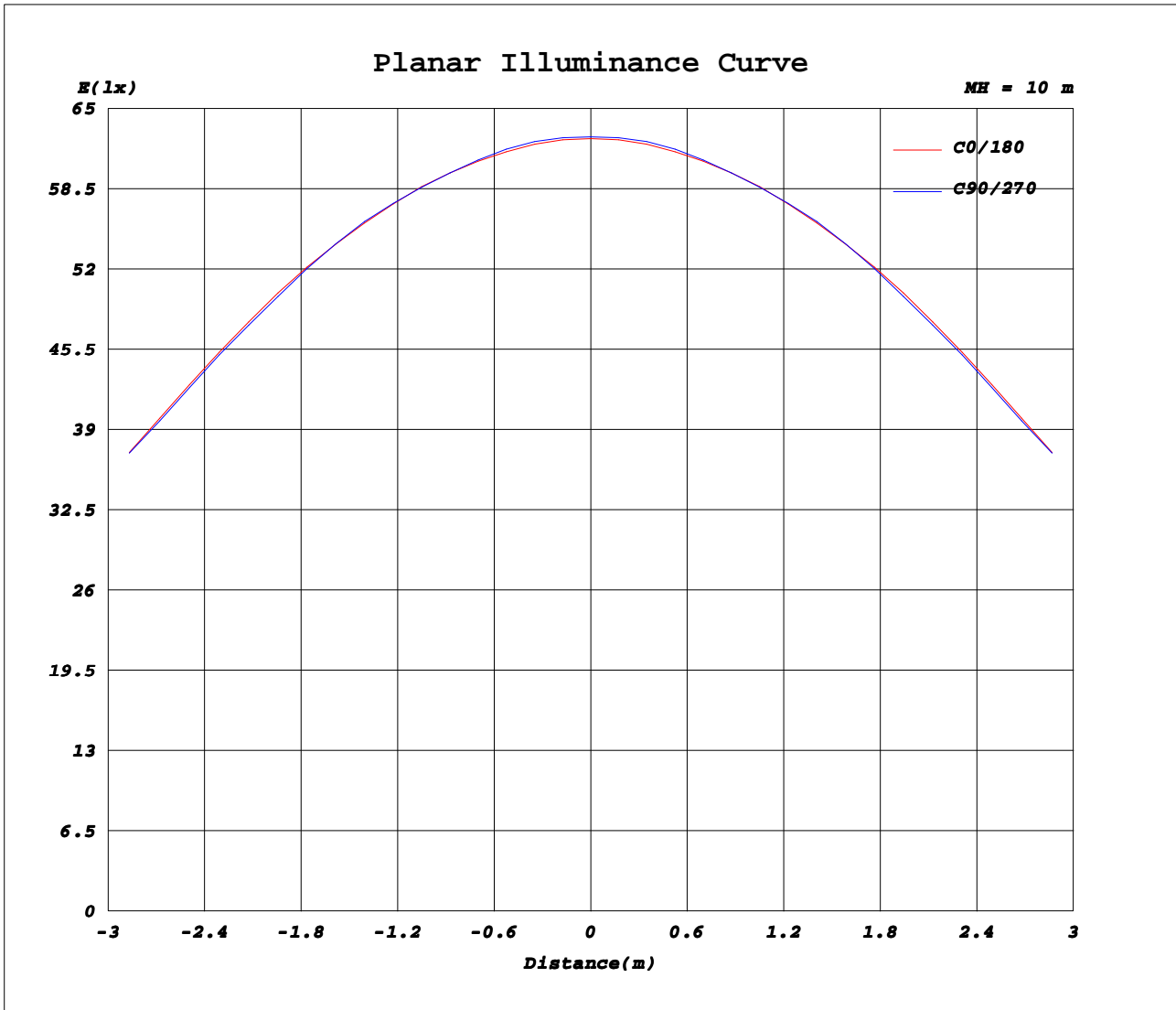
Test:U:221.70V I:0.1700A P:36.800W PF:0.9740 Freq:50.00Hz		
Lamp Flux:3406.84x1 lm		
Name: NS98-φ140mm-40W	Type: LED	
MFR.: Lumega Group	DIM.: D140*H254mm	
	SUR.: D95mm	



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-05-04**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**

**Planar Illuminance Curve**



**C Range: 0 - 360DEG**  
**C Interval: 30.0DEG**  
**Test Speed: HIGH**  
**Temperature: 25.3DEG**  
**Operators: DAMIN**  
**Test Date: 2022-05-04**

**γ Range: 0 - 180DEG**  
**γ Interval: 1.0DEG**  
**Test System: EVERFINE GO-2000A\_V1 SYSTEM V2.00.443**  
**Humidity: 65.0%**  
**Test Distance: 8.000m [K=0.7063]**  
**Remarks:**

**LUMINOUS DISTRIBUTION INTENSITY DATA**

Test:U:221.70V I:0.1700A P:36.800W PF:0.9740 Freq:50.00Hz Lamp Flux:3406.84x1 lm		
Name: NS98-φ140mm-40W	Type: LED	
MFR.: Lumega Group	DIM.: D140*H254mm	
	SUR.: D95mm	

Table--1

UNIT: cd

C( DEG) γ (DEG)	0	30	60	90	120	150	180	210	240	270	300	330							
0	6256	6264	6269	6270	6266	6261	6256	6261	6266	6270	6269	6264							
5	6049	6049	6049	6049	6049	6049	6049	6049	6049	6049	6049	6049							
10	5461	5454	5450	5449	5453	5457	5461	5457	5453	5449	5450	5454							
15	4430	4416	4408	4405	4413	4422	4430	4422	4413	4405	4408	4416							
20	3116	3178	3215	3228	3193	3151	3116	3151	3193	3228	3215	3178							
25	2033	2129	2187	2206	2153	2086	2033	2086	2153	2206	2187	2129							
30	1332	1354	1368	1372	1360	1344	1332	1344	1360	1372	1368	1354							
35	811	730	681	665	710	766	811	766	710	665	681	730							
40	393	234	139	107	195	304	393	304	195	107	139	234							
45	79.1	74.9	72.4	71.6	73.9	76.7	79.1	76.7	73.9	71.6	72.4	74.9							
50	39.0	40.6	41.6	41.9	41.0	39.9	39.0	39.9	41.0	41.9	41.6	40.6							
55	21.9	21.5	21.3	21.2	21.4	21.7	21.9	21.7	21.4	21.2	21.3	21.5							
60	13.5	13.5	13.4	13.4	13.5	13.5	13.5	13.5	13.5	13.4	13.4	13.5							
65	8.17	8.12	8.09	8.08	8.11	8.15	8.17	8.15	8.11	8.08	8.09	8.12							
70	4.63	4.89	5.05	5.10	4.95	4.78	4.63	4.78	4.95	5.10	5.05	4.89							
75	2.96	3.26	3.44	3.50	3.33	3.13	2.96	3.13	3.33	3.50	3.44	3.26							
80	2.46	2.76	2.95	3.01	2.84	2.63	2.46	2.63	2.84	3.01	2.95	2.76							
85	2.71	2.98	3.14	3.19	3.04	2.86	2.71	2.86	3.04	3.19	3.14	2.98							
90	3.20	3.41	3.54	3.58	3.47	3.32	3.20	3.32	3.47	3.58	3.54	3.41							
95	3.91	3.96	3.99	4.00	3.97	3.94	3.91	3.94	3.97	4.00	3.99	3.96							
100	4.77	4.70	4.65	4.64	4.68	4.73	4.77	4.73	4.68	4.64	4.65	4.70							
105	5.83	5.75	5.70	5.69	5.73	5.78	5.83	5.78	5.73	5.69	5.70	5.75							
110	7.30	7.17	7.09	7.06	7.13	7.22	7.30	7.22	7.13	7.06	7.09	7.17							
115	9.20	8.94	8.79	8.74	8.88	9.06	9.20	9.06	8.88	8.74	8.79	8.94							
120	11.5	11.2	11.0	10.9	11.1	11.3	11.5	11.3	11.1	10.9	11.0	11.2							
125	14.4	14.0	13.8	13.7	13.9	14.2	14.4	14.2	13.9	13.7	13.8	14.0							
130	18.0	17.5	17.3	17.2	17.4	17.7	18.0	17.7	17.4	17.2	17.3	17.5							
135	21.9	21.5	21.3	21.2	21.4	21.7	21.9	21.7	21.4	21.2	21.3	21.5							
140	26.3	25.9	25.7	25.7	25.8	26.1	26.3	26.1	25.8	25.7	25.7	25.9							
145	30.6	30.4	30.2	30.2	30.3	30.5	30.6	30.5	30.3	30.2	30.2	30.4							
150	34.4	34.3	34.2	34.2	34.3	34.3	34.4	34.3	34.3	34.2	34.2	34.3							
155	37.1	37.2	37.3	37.4	37.3	37.2	37.1	37.2	37.3	37.4	37.3	37.2							
160	37.9	38.3	38.5	38.6	38.4	38.1	37.9	38.1	38.4	38.6	38.5	38.3							
165	36.8	37.0	37.1	37.1	37.0	36.9	36.8	36.9	37.0	37.1	37.1	37.0							
170	35.4	35.3	35.3	35.2	35.3	35.4	35.4	35.4	35.3	35.2	35.3	35.3							
175	34.7	34.2	33.8	33.7	34.0	34.4	34.7	34.4	34.0	33.7	33.8	34.2							
180	34.6	34.0	33.6	33.4	33.8	34.3	34.6	34.3	33.8	33.4	33.6	34.0							

**C Range: 0 - 360DEG**  
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