

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269



Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: CORELITE

Report Number: P934379

Luminaire Tested: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934379
REPORT IS A COMBINATION OF REPORTS P933693 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

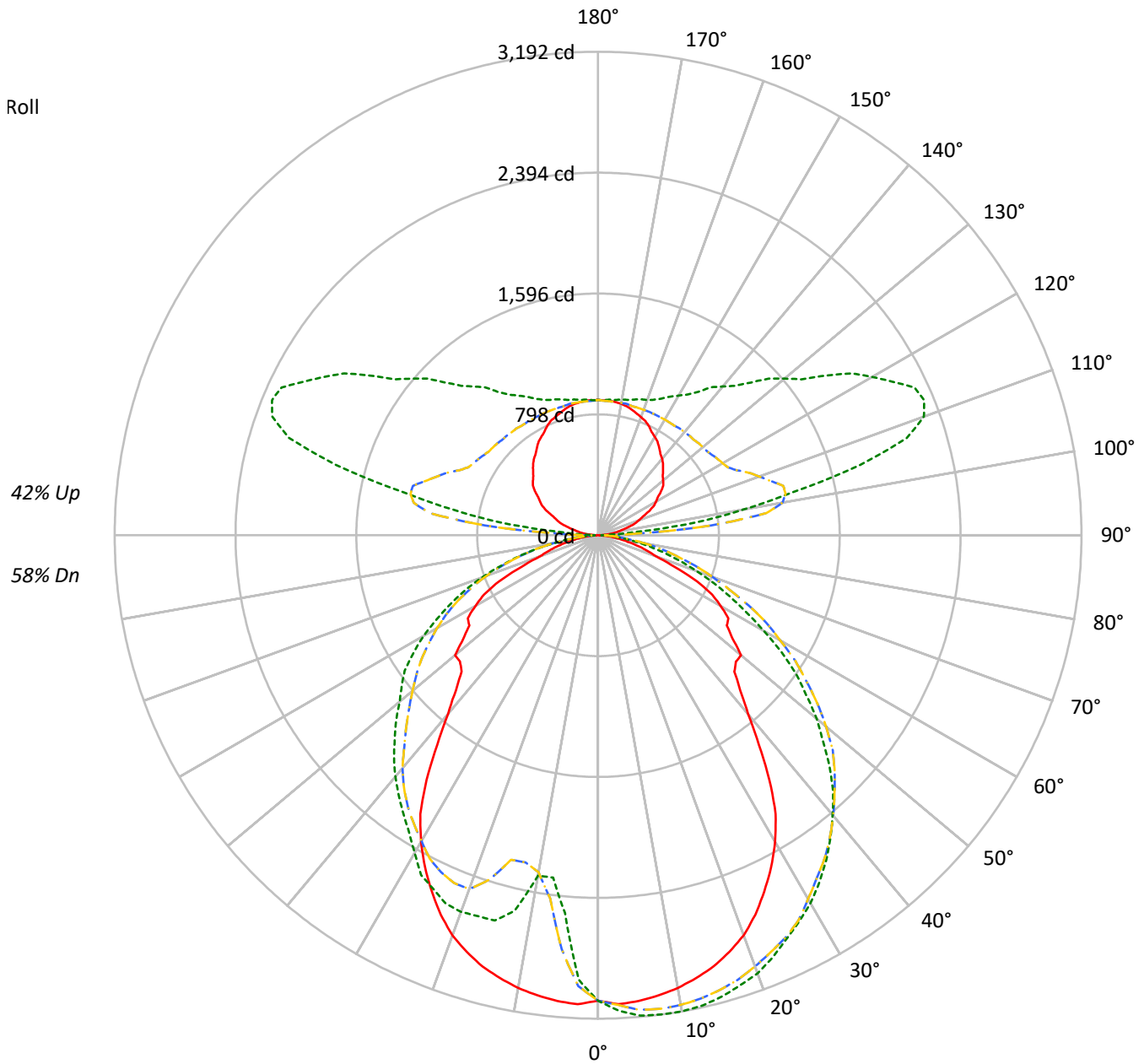
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13757.7 lumens
Efficiency: N/A
Efficacy: 126.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 109.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° ··· 90°-270° - · - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				
RC	80				70				50				30				10			0	
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	63	63	63	58			58
1	100	95	91	88	93	89	86	83	77	75	72	66	64	63	56	55	54	49			49
2	91	83	77	72	84	78	72	68	68	63	60	58	55	52	49	47	45	41			41
3	83	73	66	60	77	68	62	57	60	55	50	51	48	44	44	41	39	35			35
4	76	65	57	51	70	61	54	48	53	47	43	46	41	38	39	36	33	30			30
5	70	58	49	43	65	54	47	41	47	42	37	41	37	33	35	32	29	26			26
6	64	52	44	38	60	49	41	36	43	37	32	37	32	29	32	28	25	23			23
7	59	47	39	33	55	44	37	31	39	33	28	34	29	25	29	25	23	20			20
8	55	42	35	29	51	40	33	28	35	29	25	31	26	23	27	23	20	18			18
9	51	39	31	26	48	37	30	25	32	27	23	28	24	20	25	21	18	16			16
10	48	36	28	23	45	34	27	22	30	24	20	26	22	18	23	19	17	15			15

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9504	9504	9504	9504
5°	9579	9594	9579	7544
10°	9518	9451	9518	6756
15°	9418	9246	9418	7721
20°	9225	9003	9225	7737
25°	8825	8650	8825	7573
30°	8308	8356	8308	7213
35°	7410	7984	7410	6817
40°	6178	7547	6178	6518
45°	5524	7035	5524	6175
50°	5873	6424	5873	5829
55°	5531	5766	5531	5630
60°	5708	4897	5708	5156
65°	5184	4048	5184	4526
70°	3598	3227	3598	3794
75°	3168	2385	3168	2856
80°	2572	1577	2572	1717
85°	1507	835	1507	710

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8460 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	277.4	2.0
10°-20°	787.5	5.7
20°-30°	1217.4	8.8
30°-40°	1453.3	10.6
40°-50°	1461.8	10.6
50°-60°	1271.9	9.2
60°-70°	901.8	6.6
70°-80°	477.1	3.5
80°-90°	122.2	0.9
90°-100°	435.1	3.2
100°-110°	1144.1	8.3
110°-120°	1186.3	8.6
120°-130°	951.5	6.9
130°-140°	746.6	5.4
140°-150°	573.1	4.2
150°-160°	412.7	3.0
160°-170°	252.5	1.8
170°-180°	85.3	0.6
0°-30°	2282.3	16.6
0°-40°	3735.6	27.2
0°-60°	6469.3	47.0
0°-90°	7970.4	57.9
90°-120°	2765.5	20.1
90°-150°	5036.8	36.6
90°-180°	5787.0	42.1
0°-180°	13757.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3073	3073	3073	3073	3073	
5°	3087	3183	3087	2503	3087	293
15°	2948	3154	2948	2634	2948	829
25°	2596	2942	2596	2576	2596	1192
35°	1974	2625	1974	2241	1974	1221
45°	1273	2163	1273	1898	1273	1020
55°	1038	1596	1038	1558	1038	954
65°	721	962	721	1076	721	689
75°	273	456	273	546	273	287
85°	46	116	46	99	46	63
90°	6	23	6	23	6	7
95°	58	263	58	263	58	64
105°	206	1792	206	1792	206	219
115°	366	2307	366	2307	366	362
125°	509	1837	509	1837	509	452
135°	607	1425	607	1425	607	470
145°	704	1156	704	1156	704	441
155°	796	996	796	996	796	366
165°	859	928	859	928	859	242
175°	893	899	893	899	893	85
180°	893	893	893	893	893	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8
2.5°	3099.0	3099.0	3116.4	3122.2	3122.2	3113.5	3104.8	3113.5	3139.7	3148.4	3145.5
5°	3087.3	3110.6	3142.6	3148.4	3154.2	3151.3	3145.5	3151.3	3180.4	3186.2	3189.1
7.5°	3064.1	3107.7	3148.4	3157.1	3165.8	3157.1	3154.2	3160.0	3189.1	3194.9	3194.9
10°	3035.0	3096.1	3142.6	3148.4	3157.1	3148.4	3148.4	3160.0	3189.1	3194.9	3197.8
12.5°	2994.3	3078.6	3122.2	3128.0	3139.7	3136.7	3133.8	3145.5	3174.5	3180.4	3180.4
15°	2947.8	3046.6	3087.3	3093.1	3113.5	3107.7	3107.7	3119.3	3151.3	3160.0	3157.1
17.5°	2883.8	3005.9	3052.4	3061.2	3075.7	3072.8	3075.7	3087.3	3116.4	3122.2	3125.1
20°	2811.2	2950.7	3005.9	3014.7	3029.2	3029.2	3029.2	3043.7	3072.8	3084.4	3084.4
22.5°	2712.3	2892.6	2950.7	2956.5	2974.0	2974.0	2979.8	3000.1	3026.3	3029.2	3029.2
25°	2596.0	2828.6	2878.0	2895.5	2912.9	2921.6	2930.4	2942.0	2950.7	2947.8	2950.7
27.5°	2473.9	2747.2	2811.2	2822.8	2846.0	2854.8	2866.4	2869.3	2872.2	2880.9	2875.1
30°	2337.2	2633.8	2729.8	2741.4	2779.2	2785.0	2773.4	2779.2	2793.7	2799.5	2805.4
32.5°	2183.2	2465.1	2645.5	2671.6	2706.5	2689.1	2686.2	2694.9	2718.1	2718.1	2724.0
35°	1973.9	2334.3	2567.0	2590.2	2616.4	2596.0	2607.7	2610.6	2625.1	2633.8	2630.9
37.5°	1744.2	2220.9	2485.5	2502.9	2523.3	2497.1	2514.6	2523.3	2534.9	2529.1	2529.1
40°	1540.7	2043.6	2389.6	2401.2	2418.6	2398.3	2415.7	2421.5	2427.3	2421.5	2418.6
42.5°	1389.5	1848.9	2287.8	2302.3	2290.7	2305.3	2311.1	2322.7	2314.0	2302.3	2302.3
45°	1273.3	1796.5	2177.3	2194.8	2177.3	2200.6	2209.3	2209.3	2183.2	2177.3	2174.4
47.5°	1235.5	1691.9	2066.9	2066.9	2058.2	2087.2	2101.8	2081.4	2055.2	2046.5	2046.5
50°	1232.6	1575.6	1915.7	1904.1	1944.8	1979.7	1965.1	1944.8	1924.4	1892.5	1892.5
52.5°	1119.2	1433.2	1720.9	1764.5	1828.5	1848.9	1825.6	1805.2	1770.4	1755.8	1744.2
55°	1037.8	1284.9	1543.6	1630.8	1697.7	1723.9	1680.2	1659.9	1607.6	1598.8	1593.0
57.5°	1020.4	1069.8	1380.8	1491.3	1572.7	1569.8	1543.6	1505.8	1462.2	1453.5	1450.6
60°	936.1	773.3	1206.4	1337.2	1421.5	1412.8	1389.5	1354.7	1314.0	1308.1	1302.3
62.5°	848.8	561.1	1008.7	1157.0	1276.2	1273.3	1252.9	1200.6	1171.5	1157.0	1145.4
65°	720.9	470.9	718.0	962.2	1133.7	1139.5	1095.9	1058.1	1026.2	1008.7	1005.8
67.5°	549.4	383.7	485.5	802.3	997.1	991.3	936.1	918.6	877.9	869.2	851.8
70°	407.0	255.8	337.2	651.2	863.4	848.8	805.2	784.9	747.1	726.8	715.1
72.5°	337.2	206.4	247.1	505.8	726.8	709.3	671.5	648.3	616.3	598.8	587.2
75°	273.3	218.0	189.0	375.0	590.1	578.5	543.6	520.4	494.2	470.9	473.8
77.5°	200.6	203.5	151.2	276.2	468.0	450.6	430.2	401.2	389.5	366.3	366.3
80°	151.2	159.9	113.4	189.0	337.2	337.2	319.8	299.4	279.1	267.4	267.4
82.5°	101.7	101.7	84.3	119.2	229.7	220.9	209.3	203.5	191.9	186.0	186.0
85°	46.5	58.1	52.3	72.7	125.0	130.8	130.8	125.0	122.1	116.3	119.2
87.5°	14.5	26.2	32.0	40.7	64.0	66.9	69.8	69.8	69.8	72.7	72.7
90°	6.0	10.8	15.6	16.8	26.4	39.1	45.5	40.5	30.3	22.8	22.8
92.5°	23.9	64.6	105.4	115.6	162.5	225.1	256.4	224.7	161.3	113.9	109.3
95°	57.6	132.1	206.7	225.3	400.0	633.0	749.5	668.8	507.5	386.4	372.7
97.5°	99.4	165.2	231.0	247.5	538.9	927.3	1121.6	1070.6	968.6	892.2	866.1
100°	131.8	191.5	251.1	266.0	589.3	1020.5	1236.1	1239.7	1247.2	1252.8	1221.7
102.5°	159.4	215.0	270.6	284.6	612.5	1049.8	1268.4	1333.3	1463.3	1560.8	1534.1
105°	206.1	253.2	300.3	312.1	629.7	1053.1	1264.8	1410.5	1701.8	1920.3	1905.9
107.5°	254.1	298.0	342.0	352.9	633.0	1006.3	1192.9	1396.1	1802.5	2107.3	2110.8
110°	286.4	326.1	365.8	375.7	628.1	964.7	1133.1	1360.2	1814.5	2155.2	2170.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	318.1	355.9	393.7	403.2	628.3	928.4	1078.5	1311.0	1775.9	2124.6	2147.5
115°	366.1	401.0	435.9	444.6	634.1	886.8	1013.2	1237.1	1685.0	2020.9	2052.7
117.5°	413.4	445.1	476.7	484.7	645.8	860.8	968.2	1170.4	1574.5	1877.7	1912.9
120°	441.0	470.8	500.6	508.0	655.4	852.0	950.3	1135.0	1504.3	1781.3	1815.5
122.5°	467.9	498.1	528.1	535.7	669.3	847.4	936.4	1102.7	1435.4	1684.8	1718.5
125°	509.3	536.7	564.2	571.0	687.9	843.6	921.5	1062.8	1345.3	1557.2	1588.3
127.5°	542.8	570.5	598.3	605.1	706.4	841.4	908.9	1030.2	1272.8	1454.8	1481.0
130°	560.9	590.7	620.5	627.9	720.0	842.7	904.2	1012.1	1228.1	1390.0	1414.3
132.5°	579.4	609.2	639.1	646.5	731.0	843.6	899.9	996.6	1189.9	1334.9	1356.6
135°	607.0	634.1	661.2	668.0	742.9	842.8	892.7	973.7	1135.7	1257.1	1275.8
137.5°	635.1	662.0	689.0	695.6	761.0	848.1	891.6	960.0	1096.9	1199.5	1214.8
140°	658.4	683.2	708.0	714.2	771.9	848.8	887.3	946.4	1064.7	1153.4	1167.7
142.5°	676.5	699.3	722.3	728.0	781.1	851.9	887.3	939.3	1043.1	1121.0	1133.3
145°	704.0	723.9	743.9	748.9	793.1	851.9	881.4	923.8	1008.8	1072.5	1081.8
147.5°	731.6	751.0	770.5	775.3	810.7	857.9	881.4	914.8	981.7	1031.8	1039.5
150°	749.5	767.1	784.7	789.1	819.9	860.9	881.4	909.6	966.0	1008.3	1014.6
152.5°	768.1	781.4	794.8	798.1	825.9	862.9	881.4	905.5	953.7	989.8	994.6
155°	795.6	805.5	815.4	817.8	839.1	867.3	881.4	900.6	938.9	967.6	970.7
157.5°	816.1	825.7	835.2	837.6	852.2	871.7	881.4	896.3	926.1	948.5	950.7
160°	829.9	837.3	844.8	846.6	858.2	873.7	881.4	894.2	919.7	938.9	940.1
162.5°	843.6	849.2	854.9	856.2	864.6	875.8	881.4	892.2	913.7	929.9	931.0
165°	858.6	863.7	868.7	870.0	873.7	878.9	881.4	889.2	904.6	916.1	917.4
167.5°	872.4	874.7	877.1	877.7	880.9	885.2	887.3	892.4	902.5	910.1	910.7
170°	881.4	883.7	886.2	886.7	886.9	887.2	887.3	892.4	902.5	910.1	910.1
172.5°	886.2	886.6	887.2	887.3	887.3	887.3	887.3	891.3	899.3	905.3	904.9
175°	892.7	892.7	892.7	892.7	890.9	888.5	887.3	889.8	895.0	898.7	898.7
177.5°	892.7	892.7	892.7	892.7	891.4	889.5	888.6	890.6	894.6	897.6	897.0
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8
2.5°	3151.3	3142.6	3151.3	3145.5	3148.4	3139.7	3113.5	3104.8	3113.5	3122.2	3122.2
5°	3189.1	3183.3	3189.1	3189.1	3186.2	3180.4	3151.3	3145.5	3151.3	3154.2	3148.4
7.5°	3200.7	3192.0	3200.7	3194.9	3194.9	3189.1	3160.0	3154.2	3157.1	3165.8	3157.1
10°	3200.7	3192.0	3200.7	3197.8	3194.9	3189.1	3160.0	3148.4	3148.4	3157.1	3148.4
12.5°	3186.2	3180.4	3186.2	3180.4	3180.4	3174.5	3145.5	3133.8	3136.7	3139.7	3128.0
15°	3162.9	3154.2	3162.9	3157.1	3160.0	3151.3	3119.3	3107.7	3107.7	3113.5	3093.1
17.5°	3128.0	3116.4	3128.0	3125.1	3122.2	3116.4	3087.3	3075.7	3072.8	3075.7	3061.2
20°	3087.3	3078.6	3087.3	3084.4	3084.4	3072.8	3043.7	3029.2	3029.2	3029.2	3014.7
22.5°	3023.4	3014.7	3023.4	3029.2	3029.2	3026.3	3000.1	2979.8	2974.0	2974.0	2956.5
25°	2950.7	2942.0	2950.7	2950.7	2947.8	2950.7	2942.0	2930.4	2921.6	2912.9	2895.5
27.5°	2880.9	2875.1	2880.9	2875.1	2880.9	2872.2	2869.3	2866.4	2854.8	2846.0	2822.8
30°	2811.2	2805.4	2811.2	2805.4	2799.5	2793.7	2779.2	2773.4	2785.0	2779.2	2741.4
32.5°	2724.0	2718.1	2724.0	2724.0	2718.1	2718.1	2694.9	2686.2	2689.1	2706.5	2671.6
35°	2633.8	2625.1	2633.8	2630.9	2633.8	2625.1	2610.6	2607.7	2596.0	2616.4	2590.2
37.5°	2529.1	2520.4	2529.1	2529.1	2529.1	2534.9	2523.3	2514.6	2497.1	2523.3	2502.9
40°	2421.5	2409.9	2421.5	2418.6	2421.5	2427.3	2421.5	2415.7	2398.3	2418.6	2401.2
42.5°	2299.4	2296.5	2299.4	2302.3	2302.3	2314.0	2322.7	2311.1	2305.3	2290.7	2302.3
45°	2168.6	2162.8	2168.6	2174.4	2177.3	2183.2	2209.3	2209.3	2200.6	2177.3	2194.8
47.5°	2029.1	2014.6	2029.1	2046.5	2046.5	2055.2	2081.4	2101.8	2087.2	2058.2	2066.9
50°	1880.8	1883.7	1880.8	1892.5	1892.5	1924.4	1944.8	1965.1	1979.7	1944.8	1904.1
52.5°	1735.5	1732.6	1735.5	1744.2	1755.8	1770.4	1805.2	1825.6	1848.9	1828.5	1764.5
55°	1590.1	1595.9	1590.1	1593.0	1598.8	1607.6	1659.9	1680.2	1723.9	1697.7	1630.8
57.5°	1444.8	1436.1	1444.8	1450.6	1453.5	1462.2	1505.8	1543.6	1569.8	1572.7	1491.3
60°	1276.2	1264.5	1276.2	1302.3	1308.1	1314.0	1354.7	1389.5	1412.8	1421.5	1337.2
62.5°	1127.9	1107.6	1127.9	1145.4	1157.0	1171.5	1200.6	1252.9	1273.3	1276.2	1157.0
65°	970.9	962.2	970.9	1005.8	1008.7	1026.2	1058.1	1095.9	1139.5	1133.7	962.2
67.5°	828.5	828.5	828.5	851.8	869.2	877.9	918.6	936.1	991.3	997.1	802.3
70°	697.7	694.8	697.7	715.1	726.8	747.1	784.9	805.2	848.8	863.4	651.2
72.5°	572.7	569.8	572.7	587.2	598.8	616.3	648.3	671.5	709.3	726.8	505.8
75°	462.2	456.4	462.2	473.8	470.9	494.2	520.4	543.6	578.5	590.1	375.0
77.5°	354.7	354.7	354.7	366.3	366.3	389.5	401.2	430.2	450.6	468.0	276.2
80°	264.5	261.6	264.5	267.4	267.4	279.1	299.4	319.8	337.2	337.2	189.0
82.5°	186.0	180.2	186.0	186.0	186.0	191.9	203.5	209.3	220.9	229.7	119.2
85°	116.3	116.3	116.3	119.2	116.3	122.1	125.0	130.8	130.8	125.0	72.7
87.5°	75.6	72.7	75.6	72.7	72.7	69.8	69.8	69.8	66.9	64.0	40.7
90°	22.8	22.8	22.8	22.8	22.8	30.3	40.5	45.5	39.1	26.4	16.8
92.5°	91.2	73.1	91.2	109.3	113.9	161.3	224.7	256.4	225.1	162.5	115.6
95°	317.8	263.0	317.8	372.7	386.4	507.5	668.8	749.5	633.0	400.0	225.3
97.5°	761.6	657.3	761.6	866.1	892.2	968.6	1070.6	1121.6	927.3	538.9	247.5
100°	1097.4	973.1	1097.4	1221.7	1252.8	1247.2	1239.7	1236.1	1020.5	589.3	266.0
102.5°	1427.6	1321.1	1427.6	1534.1	1560.8	1463.3	1333.3	1268.4	1049.8	612.5	284.6
105°	1848.8	1791.5	1848.8	1905.9	1920.3	1701.8	1410.5	1264.8	1053.1	629.7	312.1
107.5°	2124.5	2138.4	2124.5	2110.8	2107.3	1802.5	1396.1	1192.9	1006.3	633.0	352.9
110°	2229.7	2289.4	2229.7	2170.1	2155.2	1814.5	1360.2	1133.1	964.7	628.1	375.7



TEST NUMBER: P934379

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2239.2	2330.7	2239.2	2147.5	2124.6	1775.9	1311.0	1078.5	928.4	628.3	403.2
115°	2179.8	2306.8	2179.8	2052.7	2020.9	1685.0	1237.1	1013.2	886.8	634.1	444.6
117.5°	2053.8	2194.7	2053.8	1912.9	1877.7	1574.5	1170.4	968.2	860.8	645.8	484.7
120°	1952.4	2089.3	1952.4	1815.5	1781.3	1504.3	1135.0	950.3	852.0	655.4	508.0
122.5°	1853.6	1988.6	1853.6	1718.5	1684.8	1435.4	1102.7	936.4	847.4	669.3	535.7
125°	1712.6	1837.0	1712.6	1588.3	1557.2	1345.3	1062.8	921.5	843.6	687.9	571.0
127.5°	1585.9	1690.8	1585.9	1481.0	1454.8	1272.8	1030.2	908.9	841.4	706.4	605.1
130°	1511.3	1608.2	1511.3	1414.3	1390.0	1228.1	1012.1	904.2	842.7	720.0	627.9
132.5°	1443.4	1530.2	1443.4	1356.6	1334.9	1189.9	996.6	899.9	843.6	731.0	646.5
135°	1350.6	1425.4	1350.6	1275.8	1257.1	1135.7	973.7	892.7	842.8	742.9	668.0
137.5°	1276.1	1337.3	1276.1	1214.8	1199.5	1096.9	960.0	891.6	848.1	761.0	695.6
140°	1224.9	1282.2	1224.9	1167.7	1153.4	1064.7	946.4	887.3	848.8	771.9	714.2
142.5°	1182.7	1231.9	1182.7	1133.3	1121.0	1043.1	939.3	887.3	851.9	781.1	728.0
145°	1119.1	1156.4	1119.1	1081.8	1072.5	1008.8	923.8	881.4	851.9	793.1	748.9
147.5°	1070.4	1101.3	1070.4	1039.5	1031.8	981.7	914.8	881.4	857.9	810.7	775.3
150°	1039.6	1064.7	1039.6	1014.6	1008.3	966.0	909.6	881.4	860.9	819.9	789.1
152.5°	1013.5	1032.4	1013.5	994.6	989.8	953.7	905.5	881.4	862.9	825.9	798.1
155°	983.3	995.8	983.3	970.7	967.6	938.9	900.6	881.4	867.3	839.1	817.8
157.5°	959.4	968.2	959.4	950.7	948.5	926.1	896.3	881.4	871.7	852.2	837.6
160°	945.3	950.3	945.3	940.1	938.9	919.7	894.2	881.4	873.7	858.2	846.6
162.5°	935.9	940.7	935.9	931.0	929.9	913.7	892.2	881.4	875.8	864.6	856.2
165°	922.5	927.5	922.5	917.4	916.1	904.6	889.2	881.4	878.9	873.7	870.0
167.5°	912.8	914.9	912.8	910.7	910.1	902.5	892.4	887.3	885.2	880.9	877.7
170°	910.1	910.1	910.1	910.1	910.1	902.5	892.4	887.3	887.2	886.9	886.7
172.5°	903.0	901.2	903.0	904.9	905.3	899.3	891.3	887.3	887.3	887.3	887.3
175°	898.7	898.7	898.7	898.7	898.7	895.0	889.8	887.3	888.5	890.9	892.7
177.5°	894.9	892.7	894.9	897.0	897.6	894.6	890.6	888.6	889.5	891.4	892.7
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7



TEST NUMBER: P934379

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8
2.5°	3116.4	3099.0	3099.0	3069.9	3058.3	3049.5	3035.0	2991.4	2979.8	2968.1	2985.6
5°	3142.6	3110.6	3087.3	3035.0	2991.4	2974.0	2918.7	2814.1	2744.3	2692.0	2662.9
7.5°	3148.4	3107.7	3064.1	2982.7	2878.0	2831.5	2662.9	2471.0	2418.6	2372.1	2343.0
10°	3142.6	3096.1	3035.0	2912.9	2665.8	2584.4	2415.7	2290.7	2258.7	2250.0	2258.7
12.5°	3122.2	3078.6	2994.3	2790.8	2444.8	2389.6	2290.7	2218.0	2212.2	2226.8	2305.3
15°	3087.3	3046.6	2947.8	2628.0	2322.7	2282.0	2212.2	2186.1	2218.0	2319.8	2555.3
17.5°	3052.4	3005.9	2883.8	2468.0	2229.7	2200.6	2151.2	2203.5	2383.7	2520.4	2599.0
20°	3005.9	2950.7	2811.2	2351.8	2162.8	2136.6	2113.4	2348.9	2485.5	2534.9	2578.6
22.5°	2950.7	2892.6	2712.3	2270.4	2093.0	2072.7	2087.2	2430.3	2485.5	2520.4	2558.2
25°	2878.0	2828.6	2596.0	2206.4	2037.8	2014.6	2069.8	2421.5	2453.5	2462.2	2537.8
27.5°	2811.2	2747.2	2473.9	2148.3	1970.9	1962.2	2084.3	2383.7	2407.0	2415.7	2497.1
30°	2729.8	2633.8	2337.2	2087.2	1901.2	1898.3	2087.2	2337.2	2331.4	2354.7	2436.1
32.5°	2645.5	2465.1	2183.2	2011.6	1834.3	1831.4	2066.9	2267.5	2261.6	2293.6	2354.7
35°	2567.0	2334.3	1973.9	1924.4	1750.0	1752.9	2017.5	2186.1	2189.0	2218.0	2255.8
37.5°	2485.5	2220.9	1744.2	1828.5	1668.6	1668.6	1950.6	2110.5	2104.7	2113.4	2165.7
40°	2389.6	2043.6	1540.7	1703.5	1593.0	1584.3	1869.2	2029.1	2008.7	2005.8	2078.5
42.5°	2287.8	1848.9	1389.5	1537.8	1505.8	1494.2	1770.4	1930.2	1892.5	1901.2	1994.2
45°	2177.3	1796.5	1273.3	1299.4	1415.7	1407.0	1662.8	1816.9	1790.7	1814.0	1909.9
47.5°	2066.9	1691.9	1235.5	1078.5	1319.8	1316.9	1543.6	1706.4	1691.9	1715.1	1816.9
50°	1915.7	1575.6	1232.6	924.4	1212.2	1223.8	1401.2	1598.8	1598.8	1619.2	1726.8
52.5°	1720.9	1433.2	1119.2	837.2	1087.2	1122.1	1276.2	1505.8	1511.6	1532.0	1627.9
55°	1543.6	1284.9	1037.8	770.4	939.0	1014.5	1154.1	1409.9	1421.5	1441.9	1529.1
57.5°	1380.8	1069.8	1020.4	691.9	802.3	875.0	1046.5	1316.9	1322.7	1340.1	1424.4
60°	1206.4	773.3	936.1	607.6	683.1	738.4	947.7	1206.4	1226.8	1238.4	1311.1
62.5°	1008.7	561.1	848.8	549.4	625.0	636.6	866.3	1101.8	1127.9	1136.6	1180.2
65°	718.0	470.9	720.9	500.0	564.0	566.9	779.1	994.2	1017.4	1032.0	1064.0
67.5°	485.5	383.7	549.4	453.5	517.4	520.4	694.8	869.2	901.2	912.8	933.1
70°	337.2	255.8	407.0	404.1	465.1	470.9	604.7	755.8	784.9	793.6	805.2
72.5°	247.1	206.4	337.2	363.4	409.9	415.7	511.6	627.9	657.0	665.7	671.5
75°	189.0	218.0	273.3	316.9	348.8	351.7	418.6	511.6	532.0	537.8	540.7
77.5°	151.2	203.5	200.6	255.8	284.9	279.1	328.5	395.4	412.8	412.8	412.8
80°	113.4	159.9	151.2	183.1	209.3	203.5	235.5	282.0	287.8	293.6	290.7
82.5°	84.3	101.7	101.7	116.3	139.5	133.7	157.0	183.1	183.1	183.1	189.0
85°	52.3	58.1	46.5	61.0	78.5	75.6	87.2	98.8	101.7	101.7	95.9
87.5°	32.0	26.2	14.5	23.3	34.9	34.9	40.7	43.6	40.7	40.7	40.7
90°	15.6	10.8	6.0	10.8	15.6	16.8	26.4	39.1	45.5	40.5	30.3
92.5°	105.4	64.6	23.9	64.6	105.4	115.6	162.5	225.1	256.4	224.7	161.3
95°	206.7	132.1	57.6	132.1	206.7	225.3	400.0	633.0	749.5	668.8	507.5
97.5°	231.0	165.2	99.4	165.2	231.0	247.5	538.9	927.3	1121.6	1070.6	968.6
100°	251.1	191.5	131.8	191.5	251.1	266.0	589.3	1020.5	1236.1	1239.7	1247.2
102.5°	270.6	215.0	159.4	215.0	270.6	284.6	612.5	1049.8	1268.4	1333.3	1463.3
105°	300.3	253.2	206.1	253.2	300.3	312.1	629.7	1053.1	1264.8	1410.5	1701.8
107.5°	342.0	298.0	254.1	298.0	342.0	352.9	633.0	1006.3	1192.9	1396.1	1802.5
110°	365.8	326.1	286.4	326.1	365.8	375.7	628.1	964.7	1133.1	1360.2	1814.5



TEST NUMBER: P934379

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	393.7	355.9	318.1	355.9	393.7	403.2	628.3	928.4	1078.5	1311.0	1775.9
115°	435.9	401.0	366.1	401.0	435.9	444.6	634.1	886.8	1013.2	1237.1	1685.0
117.5°	476.7	445.1	413.4	445.1	476.7	484.7	645.8	860.8	968.2	1170.4	1574.5
120°	500.6	470.8	441.0	470.8	500.6	508.0	655.4	852.0	950.3	1135.0	1504.3
122.5°	528.1	498.1	467.9	498.1	528.1	535.7	669.3	847.4	936.4	1102.7	1435.4
125°	564.2	536.7	509.3	536.7	564.2	571.0	687.9	843.6	921.5	1062.8	1345.3
127.5°	598.3	570.5	542.8	570.5	598.3	605.1	706.4	841.4	908.9	1030.2	1272.8
130°	620.5	590.7	560.9	590.7	620.5	627.9	720.0	842.7	904.2	1012.1	1228.1
132.5°	639.1	609.2	579.4	609.2	639.1	646.5	731.0	843.6	899.9	996.6	1189.9
135°	661.2	634.1	607.0	634.1	661.2	668.0	742.9	842.8	892.7	973.7	1135.7
137.5°	689.0	662.0	635.1	662.0	689.0	695.6	761.0	848.1	891.6	960.0	1096.9
140°	708.0	683.2	658.4	683.2	708.0	714.2	771.9	848.8	887.3	946.4	1064.7
142.5°	722.3	699.3	676.5	699.3	722.3	728.0	781.1	851.9	887.3	939.3	1043.1
145°	743.9	723.9	704.0	723.9	743.9	748.9	793.1	851.9	881.4	923.8	1008.8
147.5°	770.5	751.0	731.6	751.0	770.5	775.3	810.7	857.9	881.4	914.8	981.7
150°	784.7	767.1	749.5	767.1	784.7	789.1	819.9	860.9	881.4	909.6	966.0
152.5°	794.8	781.4	768.1	781.4	794.8	798.1	825.9	862.9	881.4	905.5	953.7
155°	815.4	805.5	795.6	805.5	815.4	817.8	839.1	867.3	881.4	900.6	938.9
157.5°	835.2	825.7	816.1	825.7	835.2	837.6	852.2	871.7	881.4	896.3	926.1
160°	844.8	837.3	829.9	837.3	844.8	846.6	858.2	873.7	881.4	894.2	919.7
162.5°	854.9	849.2	843.6	849.2	854.9	856.2	864.6	875.8	881.4	892.2	913.7
165°	868.7	863.7	858.6	863.7	868.7	870.0	873.7	878.9	881.4	889.2	904.6
167.5°	877.1	874.7	872.4	874.7	877.1	877.7	880.9	885.2	887.3	892.4	902.5
170°	886.2	883.7	881.4	883.7	886.2	886.7	886.9	887.2	887.3	892.4	902.5
172.5°	887.2	886.6	886.2	886.6	887.2	887.3	887.3	887.3	887.3	891.3	899.3
175°	892.7	892.7	892.7	892.7	892.7	892.7	890.9	888.5	887.3	889.8	895.0
177.5°	892.7	892.7	892.7	892.7	892.7	892.7	891.4	889.5	888.6	890.6	894.6
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7



TEST NUMBER: P934379

CATALOG NUMBER: SQ4-FA-050U-075D-B2750-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8	3072.8
2.5°	2965.2	2956.5	2968.1	2936.2	2968.1	2956.5	2965.2	2985.6	2968.1	2979.8	2991.4
5°	2601.9	2587.3	2540.7	2502.9	2540.7	2587.3	2601.9	2662.9	2692.0	2744.3	2814.1
7.5°	2325.6	2314.0	2302.3	2279.1	2302.3	2314.0	2325.6	2343.0	2372.1	2418.6	2471.0
10°	2264.6	2267.5	2284.9	2282.0	2284.9	2267.5	2264.6	2258.7	2250.0	2258.7	2290.7
12.5°	2421.5	2447.7	2543.6	2537.8	2543.6	2447.7	2421.5	2305.3	2226.8	2212.2	2218.0
15°	2601.9	2610.6	2630.9	2633.8	2630.9	2610.6	2601.9	2555.3	2319.8	2218.0	2186.1
17.5°	2619.3	2622.2	2636.7	2636.7	2636.7	2622.2	2619.3	2599.0	2520.4	2383.7	2203.5
20°	2604.8	2610.6	2639.7	2645.5	2639.7	2610.6	2604.8	2578.6	2534.9	2485.5	2348.9
22.5°	2599.0	2610.6	2633.8	2630.9	2633.8	2610.6	2599.0	2558.2	2520.4	2485.5	2430.3
25°	2569.9	2569.9	2572.8	2575.7	2572.8	2569.9	2569.9	2537.8	2462.2	2453.5	2421.5
27.5°	2508.7	2514.6	2532.0	2529.1	2532.0	2514.6	2508.7	2497.1	2415.7	2407.0	2383.7
30°	2453.5	2447.7	2433.2	2421.5	2433.2	2447.7	2453.5	2436.1	2354.7	2331.4	2337.2
32.5°	2360.5	2345.9	2331.4	2322.7	2331.4	2345.9	2360.5	2354.7	2293.6	2261.6	2267.5
35°	2250.0	2252.9	2250.0	2241.3	2250.0	2252.9	2250.0	2255.8	2218.0	2189.0	2186.1
37.5°	2171.5	2177.3	2174.4	2162.8	2174.4	2177.3	2171.5	2165.7	2113.4	2104.7	2110.5
40°	2090.1	2093.0	2090.1	2081.4	2090.1	2093.0	2090.1	2078.5	2005.8	2008.7	2029.1
42.5°	2011.6	2008.7	2000.0	1994.2	2000.0	2008.7	2011.6	1994.2	1901.2	1892.5	1930.2
45°	1921.5	1924.4	1907.0	1898.3	1907.0	1924.4	1921.5	1909.9	1814.0	1790.7	1816.9
47.5°	1831.4	1831.4	1816.9	1808.2	1816.9	1831.4	1831.4	1816.9	1715.1	1691.9	1706.4
50°	1735.5	1732.6	1712.2	1709.3	1712.2	1732.6	1735.5	1726.8	1619.2	1598.8	1598.8
52.5°	1625.0	1625.0	1627.9	1633.7	1627.9	1625.0	1625.0	1627.9	1532.0	1511.6	1505.8
55°	1529.1	1532.0	1552.3	1558.2	1552.3	1532.0	1529.1	1529.1	1441.9	1421.5	1409.9
57.5°	1430.2	1430.2	1444.8	1444.8	1444.8	1430.2	1430.2	1424.4	1340.1	1322.7	1316.9
60°	1316.9	1322.7	1334.3	1331.4	1334.3	1322.7	1316.9	1311.1	1238.4	1226.8	1206.4
62.5°	1197.7	1203.5	1206.4	1200.6	1206.4	1203.5	1197.7	1180.2	1136.6	1127.9	1101.8
65°	1072.7	1078.5	1081.4	1075.6	1081.4	1078.5	1072.7	1064.0	1032.0	1017.4	994.2
67.5°	944.8	941.9	939.0	950.6	939.0	941.9	944.8	933.1	912.8	901.2	869.2
70°	814.0	814.0	811.1	816.9	811.1	814.0	814.0	805.2	793.6	784.9	755.8
72.5°	674.4	671.5	683.1	674.4	683.1	671.5	674.4	671.5	665.7	657.0	627.9
75°	537.8	543.6	537.8	546.5	537.8	543.6	537.8	540.7	537.8	532.0	511.6
77.5°	409.9	415.7	409.9	409.9	409.9	415.7	409.9	412.8	412.8	412.8	395.4
80°	290.7	287.8	287.8	284.9	287.8	287.8	290.7	290.7	293.6	287.8	282.0
82.5°	186.0	183.1	183.1	189.0	183.1	183.1	186.0	189.0	183.1	183.1	183.1
85°	101.7	104.7	98.8	98.8	98.8	104.7	101.7	95.9	101.7	101.7	98.8
87.5°	37.8	34.9	34.9	34.9	34.9	34.9	37.8	40.7	40.7	40.7	43.6
90°	22.8	22.8	22.8	22.8	22.8	22.8	22.8	30.3	40.5	45.5	39.1
92.5°	113.9	109.3	91.2	73.1	91.2	109.3	113.9	161.3	224.7	256.4	225.1
95°	386.4	372.7	317.8	263.0	317.8	372.7	386.4	507.5	668.8	749.5	633.0
97.5°	892.2	866.1	761.6	657.3	761.6	866.1	892.2	968.6	1070.6	1121.6	927.3
100°	1252.8	1221.7	1097.4	973.1	1097.4	1221.7	1252.8	1247.2	1239.7	1236.1	1020.5
102.5°	1560.8	1534.1	1427.6	1321.1	1427.6	1534.1	1560.8	1463.3	1333.3	1268.4	1049.8
105°	1920.3	1905.9	1848.8	1791.5	1848.8	1905.9	1920.3	1701.8	1410.5	1264.8	1053.1
107.5°	2107.3	2110.8	2124.5	2138.4	2124.5	2110.8	2107.3	1802.5	1396.1	1192.9	1006.3
110°	2155.2	2170.1	2229.7	2289.4	2229.7	2170.1	2155.2	1814.5	1360.2	1133.1	964.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2124.6	2147.5	2239.2	2330.7	2239.2	2147.5	2124.6	1775.9	1311.0	1078.5	928.4
115°	2020.9	2052.7	2179.8	2306.8	2179.8	2052.7	2020.9	1685.0	1237.1	1013.2	886.8
117.5°	1877.7	1912.9	2053.8	2194.7	2053.8	1912.9	1877.7	1574.5	1170.4	968.2	860.8
120°	1781.3	1815.5	1952.4	2089.3	1952.4	1815.5	1781.3	1504.3	1135.0	950.3	852.0
122.5°	1684.8	1718.5	1853.6	1988.6	1853.6	1718.5	1684.8	1435.4	1102.7	936.4	847.4
125°	1557.2	1588.3	1712.6	1837.0	1712.6	1588.3	1557.2	1345.3	1062.8	921.5	843.6
127.5°	1454.8	1481.0	1585.9	1690.8	1585.9	1481.0	1454.8	1272.8	1030.2	908.9	841.4
130°	1390.0	1414.3	1511.3	1608.2	1511.3	1414.3	1390.0	1228.1	1012.1	904.2	842.7
132.5°	1334.9	1356.6	1443.4	1530.2	1443.4	1356.6	1334.9	1189.9	996.6	899.9	843.6
135°	1257.1	1275.8	1350.6	1425.4	1350.6	1275.8	1257.1	1135.7	973.7	892.7	842.8
137.5°	1199.5	1214.8	1276.1	1337.3	1276.1	1214.8	1199.5	1096.9	960.0	891.6	848.1
140°	1153.4	1167.7	1224.9	1282.2	1224.9	1167.7	1153.4	1064.7	946.4	887.3	848.8
142.5°	1121.0	1133.3	1182.7	1231.9	1182.7	1133.3	1121.0	1043.1	939.3	887.3	851.9
145°	1072.5	1081.8	1119.1	1156.4	1119.1	1081.8	1072.5	1008.8	923.8	881.4	851.9
147.5°	1031.8	1039.5	1070.4	1101.3	1070.4	1039.5	1031.8	981.7	914.8	881.4	857.9
150°	1008.3	1014.6	1039.6	1064.7	1039.6	1014.6	1008.3	966.0	909.6	881.4	860.9
152.5°	989.8	994.6	1013.5	1032.4	1013.5	994.6	989.8	953.7	905.5	881.4	862.9
155°	967.6	970.7	983.3	995.8	983.3	970.7	967.6	938.9	900.6	881.4	867.3
157.5°	948.5	950.7	959.4	968.2	959.4	950.7	948.5	926.1	896.3	881.4	871.7
160°	938.9	940.1	945.3	950.3	945.3	940.1	938.9	919.7	894.2	881.4	873.7
162.5°	929.9	931.0	935.9	940.7	935.9	931.0	929.9	913.7	892.2	881.4	875.8
165°	916.1	917.4	922.5	927.5	922.5	917.4	916.1	904.6	889.2	881.4	878.9
167.5°	910.1	910.7	912.8	914.9	912.8	910.7	910.1	902.5	892.4	887.3	885.2
170°	910.1	910.1	910.1	910.1	910.1	910.1	910.1	902.5	892.4	887.3	887.2
172.5°	905.3	904.9	903.0	901.2	903.0	904.9	905.3	899.3	891.3	887.3	887.3
175°	898.7	898.7	898.7	898.7	898.7	898.7	898.7	895.0	889.8	887.3	888.5
177.5°	897.6	897.0	894.9	892.7	894.9	897.0	897.6	894.6	890.6	888.6	889.5
180°	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7	892.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3072.8	3072.8	3072.8	3072.8	3072.8
2.5°	3035.0	3049.5	3058.3	3069.9	3099.0
5°	2918.7	2974.0	2991.4	3035.0	3087.3
7.5°	2662.9	2831.5	2878.0	2982.7	3064.1
10°	2415.7	2584.4	2665.8	2912.9	3035.0
12.5°	2290.7	2389.6	2444.8	2790.8	2994.3
15°	2212.2	2282.0	2322.7	2628.0	2947.8
17.5°	2151.2	2200.6	2229.7	2468.0	2883.8
20°	2113.4	2136.6	2162.8	2351.8	2811.2
22.5°	2087.2	2072.7	2093.0	2270.4	2712.3
25°	2069.8	2014.6	2037.8	2206.4	2596.0
27.5°	2084.3	1962.2	1970.9	2148.3	2473.9
30°	2087.2	1898.3	1901.2	2087.2	2337.2
32.5°	2066.9	1831.4	1834.3	2011.6	2183.2
35°	2017.5	1752.9	1750.0	1924.4	1973.9
37.5°	1950.6	1668.6	1668.6	1828.5	1744.2
40°	1869.2	1584.3	1593.0	1703.5	1540.7
42.5°	1770.4	1494.2	1505.8	1537.8	1389.5
45°	1662.8	1407.0	1415.7	1299.4	1273.3
47.5°	1543.6	1316.9	1319.8	1078.5	1235.5
50°	1401.2	1223.8	1212.2	924.4	1232.6
52.5°	1276.2	1122.1	1087.2	837.2	1119.2
55°	1154.1	1014.5	939.0	770.4	1037.8
57.5°	1046.5	875.0	802.3	691.9	1020.4
60°	947.7	738.4	683.1	607.6	936.1
62.5°	866.3	636.6	625.0	549.4	848.8
65°	779.1	566.9	564.0	500.0	720.9
67.5°	694.8	520.4	517.4	453.5	549.4
70°	604.7	470.9	465.1	404.1	407.0
72.5°	511.6	415.7	409.9	363.4	337.2
75°	418.6	351.7	348.8	316.9	273.3
77.5°	328.5	279.1	284.9	255.8	200.6
80°	235.5	203.5	209.3	183.1	151.2
82.5°	157.0	133.7	139.5	116.3	101.7
85°	87.2	75.6	78.5	61.0	46.5
87.5°	40.7	34.9	34.9	23.3	14.5
90°	26.4	16.8	15.6	10.8	6.0
92.5°	162.5	115.6	105.4	64.6	23.9
95°	400.0	225.3	206.7	132.1	57.6
97.5°	538.9	247.5	231.0	165.2	99.4
100°	589.3	266.0	251.1	191.5	131.8
102.5°	612.5	284.6	270.6	215.0	159.4
105°	629.7	312.1	300.3	253.2	206.1
107.5°	633.0	352.9	342.0	298.0	254.1
110°	628.1	375.7	365.8	326.1	286.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	628.3	403.2	393.7	355.9	318.1
115°	634.1	444.6	435.9	401.0	366.1
117.5°	645.8	484.7	476.7	445.1	413.4
120°	655.4	508.0	500.6	470.8	441.0
122.5°	669.3	535.7	528.1	498.1	467.9
125°	687.9	571.0	564.2	536.7	509.3
127.5°	706.4	605.1	598.3	570.5	542.8
130°	720.0	627.9	620.5	590.7	560.9
132.5°	731.0	646.5	639.1	609.2	579.4
135°	742.9	668.0	661.2	634.1	607.0
137.5°	761.0	695.6	689.0	662.0	635.1
140°	771.9	714.2	708.0	683.2	658.4
142.5°	781.1	728.0	722.3	699.3	676.5
145°	793.1	748.9	743.9	723.9	704.0
147.5°	810.7	775.3	770.5	751.0	731.6
150°	819.9	789.1	784.7	767.1	749.5
152.5°	825.9	798.1	794.8	781.4	768.1
155°	839.1	817.8	815.4	805.5	795.6
157.5°	852.2	837.6	835.2	825.7	816.1
160°	858.2	846.6	844.8	837.3	829.9
162.5°	864.6	856.2	854.9	849.2	843.6
165°	873.7	870.0	868.7	863.7	858.6
167.5°	880.9	877.7	877.1	874.7	872.4
170°	886.9	886.7	886.2	883.7	881.4
172.5°	887.3	887.3	887.2	886.6	886.2
175°	890.9	892.7	892.7	892.7	892.7
177.5°	891.4	892.7	892.7	892.7	892.7
180°	892.7	892.7	892.7	892.7	892.7



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CIE UGR TABLE:

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference 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				
X=2H	Y=2H	13.34	14.27	14.22	15.18	16.33	16.19	17.13	17.07	18.03	19.19
	3H	13.82	14.66	14.72	15.58	16.75	17.55	18.39	18.44	19.30	20.48
	4H	14.01	14.81	14.93	15.73	16.92	18.00	18.79	18.91	19.71	20.90
	6H	14.14	14.87	15.06	15.80	17.00	18.29	19.03	19.22	19.95	21.15
	8H	14.14	14.84	15.07	15.78	16.98	18.37	19.07	19.31	20.01	21.21
	12H	14.11	14.78	15.05	15.72	16.94	18.42	19.08	19.36	20.02	21.24
4H	2H	14.38	15.18	15.30	16.10	17.29	16.61	17.40	17.52	18.32	19.51
	3H	15.42	16.08	16.35	17.03	18.24	18.13	18.79	19.06	19.74	20.94
	4H	15.70	16.30	16.64	17.25	18.48	18.66	19.26	19.60	20.21	21.44
	6H	15.83	16.35	16.78	17.32	18.55	19.04	19.56	19.99	20.53	21.76
	8H	15.83	16.32	16.79	17.29	18.53	19.15	19.63	20.10	20.60	21.84
	12H	15.81	16.24	16.78	17.23	18.47	19.21	19.65	20.19	20.63	21.88
8H	4H	16.16	16.65	17.12	17.61	18.85	18.79	19.28	19.75	20.24	21.48
	6H	16.43	16.83	17.41	17.83	19.07	19.24	19.64	20.22	20.65	21.89
	8H	16.47	16.82	17.46	17.82	19.08	19.39	19.75	20.38	20.74	22.00
	12H	16.46	16.77	17.45	17.76	19.06	19.50	19.81	20.49	20.80	22.11
12H	4H	16.17	16.61	17.15	17.59	18.84	18.76	19.20	19.73	20.18	21.43
	6H	16.49	16.84	17.48	17.84	19.10	19.23	19.59	20.22	20.58	21.84
	8H	16.56	16.87	17.55	17.86	19.17	19.40	19.72	20.40	20.70	22.01