

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: P935653

Luminaire Tested: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935653
REPORT IS A COMBINATION OF REPORTS P933761 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

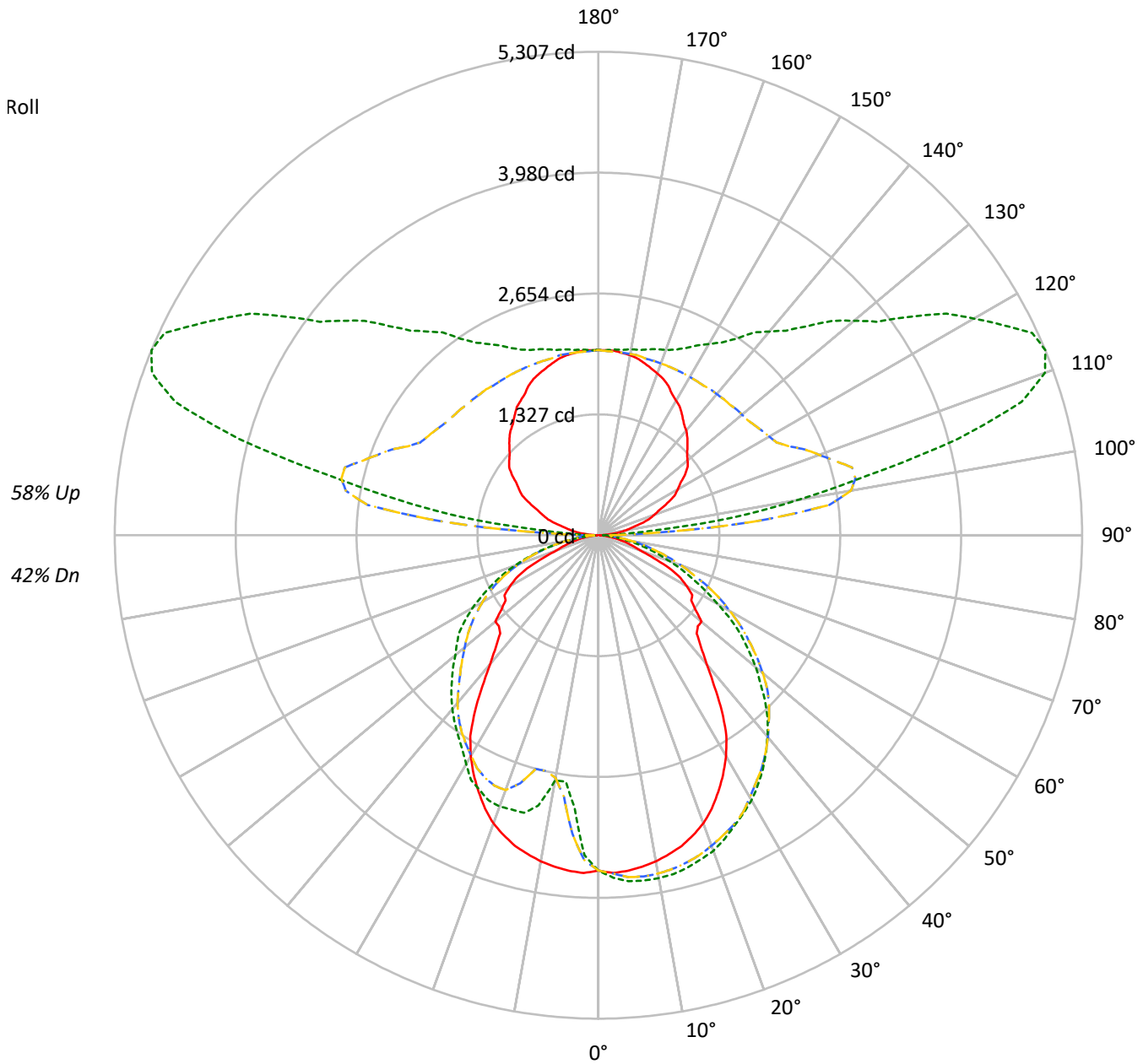
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22726.0 lumens
Efficiency: N/A
Efficacy: 117.6 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): 193.2
Input Voltage (V): NR
Input Current (A_{in}): 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	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	41	41	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	35	35	35	30
3	80	70	63	57	72	65	58	53	53	49	45	43	40	37	34	31	30	30	30	30	25
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	28	25	25	25	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	22	22	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	19	19	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	15	15	15	13
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14	14	14	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	13	13	13	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11382	11382	11382	11382
5°	11471	11490	11471	9034
10°	11398	11318	11398	8091
15°	11279	11072	11279	9246
20°	11047	10782	11047	9265
25°	10569	10358	10569	9068
30°	9949	10007	9949	8638
35°	8874	9561	8874	8164
40°	7398	9038	7398	7806
45°	6615	8425	6615	7394
50°	7033	7694	7033	6982
55°	6623	6906	6623	6742
60°	6836	5865	6836	6175
65°	6208	4848	6208	5420
70°	4309	3864	4309	4543
75°	3793	2856	3793	3420
80°	3079	1888	3079	2056
85°	1805	1000	1805	850

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10132 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.2	1.5
10°-20°	943.1	4.1
20°-30°	1457.9	6.4
30°-40°	1740.4	7.7
40°-50°	1750.6	7.7
50°-60°	1523.2	6.7
60°-70°	1080.0	4.8
70°-80°	571.4	2.5
80°-90°	150.0	0.7
90°-100°	990.8	4.4
100°-110°	2605.0	11.5
110°-120°	2701.1	11.9
120°-130°	2166.6	9.5
130°-140°	1700.0	7.5
140°-150°	1304.8	5.7
150°-160°	939.7	4.1
160°-170°	575.0	2.5
170°-180°	194.2	0.9
0°-30°	2733.1	12.0
0°-40°	4473.5	19.7
0°-60°	7747.3	34.1
0°-90°	9548.7	42.0
90°-120°	6296.9	27.7
90°-150°	11468.4	50.5
90°-180°	13177.0	58.0
0°-180°	22726.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	3680	3680	3680	3680	3680	
5°	3697	3812	3697	2998	3697	351
15°	3530	3777	3530	3154	3530	993
25°	3109	3523	3109	3084	3109	1427
35°	2364	3144	2364	2684	2364	1462
45°	1525	2590	1525	2273	1525	1221
55°	1243	1911	1243	1866	1243	1142
65°	863	1152	863	1288	863	825
75°	327	547	327	654	327	344
85°	56	139	56	118	56	75
90°	14	52	14	52	14	14
95°	131	599	131	599	131	145
105°	469	4079	469	4079	469	498
115°	834	5252	834	5252	834	823
125°	1160	4183	1160	4183	1160	1030
135°	1382	3246	1382	3246	1382	1069
145°	1603	2633	1603	2633	1603	1004
155°	1812	2267	1812	2267	1812	832
165°	1955	2112	1955	2112	1955	552
175°	2033	2046	2033	2046	2033	193
180°	2033	2033	2033	2033	2033	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3711.1	3711.1	3732.0	3738.9	3738.9	3728.5	3718.0	3728.5	3759.8	3770.3	3766.8
5°	3697.2	3725.1	3763.3	3770.3	3777.2	3773.8	3766.8	3773.8	3808.6	3815.5	3819.0
7.5°	3669.3	3721.5	3770.3	3780.7	3791.2	3780.7	3777.2	3784.2	3819.0	3826.0	3826.0
10°	3634.5	3707.7	3763.3	3770.3	3780.7	3770.3	3770.3	3784.2	3819.0	3826.0	3829.5
12.5°	3585.8	3686.8	3738.9	3746.0	3759.8	3756.3	3752.9	3766.8	3801.6	3808.6	3808.6
15°	3530.1	3648.5	3697.2	3704.1	3728.5	3721.5	3721.5	3735.5	3773.8	3784.2	3780.7
17.5°	3453.5	3599.7	3655.4	3665.9	3683.2	3679.7	3683.2	3697.2	3732.0	3738.9	3742.4
20°	3366.4	3533.6	3599.7	3610.2	3627.6	3627.6	3627.6	3644.9	3679.7	3693.7	3693.7
22.5°	3248.0	3463.9	3533.6	3540.5	3561.4	3561.4	3568.4	3592.7	3624.0	3627.6	3627.6
25°	3108.8	3387.3	3446.5	3467.4	3488.3	3498.7	3509.2	3523.1	3533.6	3530.1	3533.6
27.5°	2962.6	3289.9	3366.4	3380.4	3408.2	3418.7	3432.6	3436.1	3439.5	3450.0	3443.0
30°	2799.0	3154.1	3268.9	3282.9	3328.1	3335.1	3321.2	3328.1	3345.5	3352.6	3359.5
32.5°	2614.4	2952.1	3168.0	3199.3	3241.1	3220.2	3216.8	3227.2	3255.1	3255.1	3262.0
35°	2363.9	2795.5	3074.1	3101.9	3133.2	3108.8	3122.7	3126.2	3143.6	3154.1	3150.6
37.5°	2088.8	2659.8	2976.6	2997.5	3021.8	2990.4	3011.3	3021.8	3035.8	3028.7	3028.7
40°	1845.1	2447.4	2861.7	2875.6	2896.5	2872.1	2892.9	2900.0	2906.9	2900.0	2896.5
42.5°	1664.1	2214.1	2739.8	2757.3	2743.3	2760.7	2767.6	2781.6	2771.1	2757.3	2757.3
45°	1524.8	2151.5	2607.5	2628.4	2607.5	2635.3	2645.8	2645.8	2614.4	2607.5	2604.1
47.5°	1479.6	2026.2	2475.2	2475.2	2464.8	2499.6	2517.0	2492.6	2461.3	2450.9	2450.9
50°	1476.1	1886.9	2294.2	2280.2	2329.0	2370.8	2353.4	2329.0	2304.7	2266.4	2266.4
52.5°	1340.3	1716.3	2060.9	2113.2	2189.8	2214.1	2186.3	2161.9	2120.1	2102.7	2088.8
55°	1242.8	1538.8	1848.6	1953.0	2033.1	2064.4	2012.2	1987.9	1925.1	1914.7	1907.8
57.5°	1222.0	1281.1	1653.7	1785.9	1883.4	1879.9	1848.6	1803.3	1751.1	1740.7	1737.2
60°	1121.0	926.0	1444.7	1601.4	1702.4	1692.0	1664.1	1622.3	1573.6	1566.6	1559.6
62.5°	1016.5	671.9	1208.0	1385.6	1528.3	1524.8	1500.5	1437.8	1403.0	1385.6	1371.6
65°	863.4	564.0	859.9	1152.3	1357.7	1364.7	1312.4	1267.2	1228.9	1208.0	1204.5
67.5°	657.9	459.5	581.3	960.9	1194.1	1187.1	1121.0	1100.1	1051.3	1040.9	1020.1
70°	487.4	306.4	403.8	779.8	1033.9	1016.5	964.3	940.0	894.7	870.3	856.4
72.5°	403.8	247.2	295.9	605.8	870.3	849.4	804.2	776.3	738.0	717.1	703.3
75°	327.3	261.1	226.3	449.1	706.7	692.8	651.0	623.2	591.8	564.0	567.5
77.5°	240.2	243.7	181.0	330.8	560.5	539.6	515.2	480.4	466.5	438.6	438.6
80°	181.0	191.5	135.8	226.3	403.8	403.8	382.9	358.6	334.2	320.3	320.3
82.5°	121.8	121.8	100.9	142.7	275.0	264.5	250.7	243.7	229.8	222.8	222.8
85°	55.7	69.6	62.6	87.0	149.7	156.7	156.7	149.7	146.2	139.2	142.7
87.5°	17.4	31.4	38.3	48.7	76.6	80.1	83.5	83.5	83.5	87.0	87.0
90°	13.6	24.5	35.5	38.2	60.0	89.1	103.6	92.1	69.1	51.8	51.8
92.5°	54.5	147.3	240.1	263.3	370.2	512.7	583.9	511.7	367.4	259.2	248.9
95°	131.0	300.7	470.5	512.9	910.8	1441.4	1706.6	1522.9	1155.5	880.0	848.7
97.5°	226.4	376.2	526.0	563.4	1226.9	2111.5	2553.8	2437.7	2205.5	2031.3	1971.9
100°	300.1	436.0	571.8	605.8	1342.0	2323.6	2814.4	2822.9	2839.9	2852.6	2781.8
102.5°	362.9	489.7	616.3	648.0	1394.7	2390.3	2888.1	3036.0	3331.9	3553.9	3493.3
105°	469.3	576.6	683.9	710.8	1433.8	2397.8	2879.9	3211.5	3874.9	4372.4	4339.8
107.5°	578.4	678.5	778.5	803.6	1441.1	2291.2	2716.2	3178.8	4104.0	4798.0	4805.9
110°	652.1	742.4	832.8	855.4	1430.1	2196.5	2579.7	3097.0	4131.4	4907.2	4941.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	724.4	810.5	896.6	918.1	1430.6	2114.0	2455.6	2985.0	4043.6	4837.6	4889.8
115°	833.5	912.9	992.4	1012.2	1443.8	2019.2	2306.9	2816.9	3836.7	4601.6	4673.9
117.5°	941.4	1013.5	1085.7	1103.7	1470.6	1959.9	2204.6	2664.9	3585.2	4275.5	4355.7
120°	1004.1	1072.0	1139.9	1156.9	1492.5	1940.0	2163.7	2584.2	3425.2	4055.9	4133.8
122.5°	1065.5	1134.0	1202.5	1219.6	1523.9	1929.5	2132.3	2511.0	3268.2	3836.2	3913.1
125°	1159.6	1222.1	1284.5	1300.1	1566.2	1920.8	2098.2	2419.8	3063.2	3545.6	3616.4
127.5°	1236.0	1299.1	1362.2	1377.9	1608.4	1915.8	2069.5	2345.7	2898.0	3312.3	3372.1
130°	1277.0	1344.9	1412.7	1429.7	1639.3	1918.9	2058.6	2304.5	2796.2	3165.0	3220.2
132.5°	1319.2	1387.1	1455.1	1472.0	1664.4	1920.8	2049.1	2269.2	2709.4	3039.5	3089.0
135°	1382.0	1443.8	1505.7	1521.1	1691.7	1919.1	2032.7	2217.1	2585.7	2862.2	2904.8
137.5°	1446.1	1507.3	1568.6	1583.8	1732.5	1930.9	2030.0	2185.8	2497.4	2731.2	2766.0
140°	1499.3	1555.6	1612.0	1626.2	1757.6	1932.8	2020.4	2155.0	2424.2	2626.1	2658.7
142.5°	1540.2	1592.4	1644.5	1657.5	1778.5	1939.8	2020.4	2138.7	2375.2	2552.5	2580.5
145°	1603.0	1648.5	1694.0	1705.3	1805.8	1939.8	2006.8	2103.5	2296.9	2441.9	2463.2
147.5°	1665.7	1710.0	1754.2	1765.3	1845.8	1953.2	2006.8	2082.9	2235.1	2349.2	2366.8
150°	1706.6	1746.7	1786.7	1796.7	1866.7	1960.1	2006.8	2071.1	2199.6	2296.0	2310.2
152.5°	1749.0	1779.3	1809.7	1817.2	1880.4	1964.7	2006.8	2061.7	2171.4	2253.7	2264.5
155°	1811.7	1834.2	1856.6	1862.2	1910.4	1974.7	2006.8	2050.5	2137.8	2203.2	2210.3
157.5°	1858.1	1879.9	1901.8	1907.2	1940.4	1984.7	2006.8	2040.7	2108.6	2159.6	2164.6
160°	1889.5	1906.4	1923.5	1927.7	1954.0	1989.3	2006.8	2035.9	2094.1	2137.8	2140.7
162.5°	1920.8	1933.6	1946.3	1949.5	1968.6	1994.1	2006.8	2031.4	2080.5	2117.3	2120.0
165°	1954.9	1966.4	1977.9	1980.8	1989.5	2001.0	2006.8	2024.4	2059.5	2085.9	2088.8
167.5°	1986.4	1991.8	1997.3	1998.6	2005.9	2015.6	2020.4	2031.9	2055.0	2072.3	2073.5
170°	2006.8	2012.3	2017.7	2019.0	2019.5	2020.1	2020.4	2031.9	2055.0	2072.3	2072.3
172.5°	2017.7	2019.0	2020.2	2020.4	2020.4	2020.4	2020.4	2029.6	2047.8	2061.4	2060.3
175°	2032.7	2032.7	2032.7	2032.7	2028.6	2023.2	2020.4	2026.2	2037.7	2046.4	2046.4
177.5°	2032.7	2032.7	2032.7	2032.7	2029.6	2025.3	2023.2	2027.7	2036.8	2043.6	2042.4
180°	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3773.8	3763.3	3773.8	3766.8	3770.3	3759.8	3728.5	3718.0	3728.5	3738.9	3738.9
5°	3819.0	3812.1	3819.0	3819.0	3815.5	3808.6	3773.8	3766.8	3773.8	3777.2	3770.3
7.5°	3832.9	3822.5	3832.9	3826.0	3826.0	3819.0	3784.2	3777.2	3780.7	3791.2	3780.7
10°	3832.9	3822.5	3832.9	3829.5	3826.0	3819.0	3784.2	3770.3	3770.3	3780.7	3770.3
12.5°	3815.5	3808.6	3815.5	3808.6	3808.6	3801.6	3766.8	3752.9	3756.3	3759.8	3746.0
15°	3787.7	3777.2	3787.7	3780.7	3784.2	3773.8	3735.5	3721.5	3721.5	3728.5	3704.1
17.5°	3746.0	3732.0	3746.0	3742.4	3738.9	3732.0	3697.2	3683.2	3679.7	3683.2	3665.9
20°	3697.2	3686.8	3697.2	3693.7	3693.7	3679.7	3644.9	3627.6	3627.6	3627.6	3610.2
22.5°	3620.6	3610.2	3620.6	3627.6	3627.6	3624.0	3592.7	3568.4	3561.4	3561.4	3540.5
25°	3533.6	3523.1	3533.6	3533.6	3530.1	3533.6	3523.1	3509.2	3498.7	3488.3	3467.4
27.5°	3450.0	3443.0	3450.0	3443.0	3450.0	3439.5	3436.1	3432.6	3418.7	3408.2	3380.4
30°	3366.4	3359.5	3366.4	3359.5	3352.6	3345.5	3328.1	3321.2	3335.1	3328.1	3282.9
32.5°	3262.0	3255.1	3262.0	3262.0	3255.1	3255.1	3227.2	3216.8	3220.2	3241.1	3199.3
35°	3154.1	3143.6	3154.1	3150.6	3154.1	3143.6	3126.2	3122.7	3108.8	3133.2	3101.9
37.5°	3028.7	3018.3	3028.7	3028.7	3028.7	3035.8	3021.8	3011.3	2990.4	3021.8	2997.5
40°	2900.0	2886.0	2900.0	2896.5	2900.0	2906.9	2900.0	2892.9	2872.1	2896.5	2875.6
42.5°	2753.7	2750.2	2753.7	2757.3	2757.3	2771.1	2781.6	2767.6	2760.7	2743.3	2757.3
45°	2597.0	2590.1	2597.0	2604.1	2607.5	2614.4	2645.8	2645.8	2635.3	2607.5	2628.4
47.5°	2430.0	2412.6	2430.0	2450.9	2450.9	2461.3	2492.6	2517.0	2499.6	2464.8	2475.2
50°	2252.4	2255.9	2252.4	2266.4	2266.4	2304.7	2329.0	2353.4	2370.8	2329.0	2280.2
52.5°	2078.3	2074.9	2078.3	2088.8	2102.7	2120.1	2161.9	2186.3	2214.1	2189.8	2113.2
55°	1904.2	1911.3	1904.2	1907.8	1914.7	1925.1	1987.9	2012.2	2064.4	2033.1	1953.0
57.5°	1730.3	1719.8	1730.3	1737.2	1740.7	1751.1	1803.3	1848.6	1879.9	1883.4	1785.9
60°	1528.3	1514.4	1528.3	1559.6	1566.6	1573.6	1622.3	1664.1	1692.0	1702.4	1601.4
62.5°	1350.7	1326.4	1350.7	1371.6	1385.6	1403.0	1437.8	1500.5	1524.8	1528.3	1385.6
65°	1162.8	1152.3	1162.8	1204.5	1208.0	1228.9	1267.2	1312.4	1364.7	1357.7	1152.3
67.5°	992.2	992.2	992.2	1020.1	1040.9	1051.3	1100.1	1121.0	1187.1	1194.1	960.9
70°	835.5	832.0	835.5	856.4	870.3	894.7	940.0	964.3	1016.5	1033.9	779.8
72.5°	685.9	682.4	685.9	703.3	717.1	738.0	776.3	804.2	849.4	870.3	605.8
75°	553.5	546.6	553.5	567.5	564.0	591.8	623.2	651.0	692.8	706.7	449.1
77.5°	424.7	424.7	424.7	438.6	438.6	466.5	480.4	515.2	539.6	560.5	330.8
80°	316.8	313.3	316.8	320.3	320.3	334.2	358.6	382.9	403.8	403.8	226.3
82.5°	222.8	215.8	222.8	222.8	222.8	229.8	243.7	250.7	264.5	275.0	142.7
85°	139.2	139.2	139.2	142.7	139.2	146.2	149.7	156.7	156.7	149.7	87.0
87.5°	90.6	87.0	90.6	87.0	87.0	83.5	83.5	83.5	80.1	76.6	48.7
90°	51.8	51.8	51.8	51.8	51.8	69.1	92.1	103.6	89.1	60.0	38.2
92.5°	207.6	166.4	207.6	248.9	259.2	367.4	511.7	583.9	512.7	370.2	263.3
95°	723.8	598.9	723.8	848.7	880.0	1155.5	1522.9	1706.6	1441.4	910.8	512.9
97.5°	1734.2	1496.5	1734.2	1971.9	2031.3	2205.5	2437.7	2553.8	2111.5	1226.9	563.4
100°	2498.7	2215.5	2498.7	2781.8	2852.6	2839.9	2822.9	2814.4	2323.6	1342.0	605.8
102.5°	3250.7	3008.2	3250.7	3493.3	3553.9	3331.9	3036.0	2888.1	2390.3	1394.7	648.0
105°	4209.4	4079.1	4209.4	4339.8	4372.4	3874.9	3211.5	2879.9	2397.8	1433.8	710.8
107.5°	4837.4	4868.9	4837.4	4805.9	4798.0	4104.0	3178.8	2716.2	2291.2	1441.1	803.6
110°	5076.9	5212.7	5076.9	4941.1	4907.2	4131.4	3097.0	2579.7	2196.5	1430.1	855.4



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CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	5098.3	5306.9	5098.3	4889.8	4837.6	4043.6	2985.0	2455.6	2114.0	1430.6	918.1
115°	4963.1	5252.3	4963.1	4673.9	4601.6	3836.7	2816.9	2306.9	2019.2	1443.8	1012.2
117.5°	4676.4	4997.2	4676.4	4355.7	4275.5	3585.2	2664.9	2204.6	1959.9	1470.6	1103.7
120°	4445.4	4757.1	4445.4	4133.8	4055.9	3425.2	2584.2	2163.7	1940.0	1492.5	1156.9
122.5°	4220.5	4527.9	4220.5	3913.1	3836.2	3268.2	2511.0	2132.3	1929.5	1523.9	1219.6
125°	3899.6	4182.7	3899.6	3616.4	3545.6	3063.2	2419.8	2098.2	1920.8	1566.2	1300.1
127.5°	3611.0	3849.9	3611.0	3372.1	3312.3	2898.0	2345.7	2069.5	1915.8	1608.4	1377.9
130°	3440.9	3661.6	3440.9	3220.2	3165.0	2796.2	2304.5	2058.6	1918.9	1639.3	1429.7
132.5°	3286.6	3484.2	3286.6	3089.0	3039.5	2709.4	2269.2	2049.1	1920.8	1664.4	1472.0
135°	3075.1	3245.5	3075.1	2904.8	2862.2	2585.7	2217.1	2032.7	1919.1	1691.7	1521.1
137.5°	2905.5	3045.0	2905.5	2766.0	2731.2	2497.4	2185.8	2030.0	1930.9	1732.5	1583.8
140°	2789.1	2919.5	2789.1	2658.7	2626.1	2424.2	2155.0	2020.4	1932.8	1757.6	1626.2
142.5°	2692.7	2804.9	2692.7	2580.5	2552.5	2375.2	2138.7	2020.4	1939.8	1778.5	1657.5
145°	2548.0	2633.0	2548.0	2463.2	2441.9	2296.9	2103.5	2006.8	1939.8	1805.8	1705.3
147.5°	2437.1	2507.5	2437.1	2366.8	2349.2	2235.1	2082.9	2006.8	1953.2	1845.8	1765.3
150°	2367.3	2424.3	2367.3	2310.2	2296.0	2199.6	2071.1	2006.8	1960.1	1866.7	1796.7
152.5°	2307.6	2350.6	2307.6	2264.5	2253.7	2171.4	2061.7	2006.8	1964.7	1880.4	1817.2
155°	2238.9	2267.3	2238.9	2210.3	2203.2	2137.8	2050.5	2006.8	1974.7	1910.4	1862.2
157.5°	2184.6	2204.6	2184.6	2164.6	2159.6	2108.6	2040.7	2006.8	1984.7	1940.4	1907.2
160°	2152.2	2163.7	2152.2	2140.7	2137.8	2094.1	2035.9	2006.8	1989.3	1954.0	1927.7
162.5°	2130.9	2141.8	2130.9	2120.0	2117.3	2080.5	2031.4	2006.8	1994.1	1968.6	1949.5
165°	2100.3	2111.9	2100.3	2088.8	2085.9	2059.5	2024.4	2006.8	2001.0	1989.5	1980.8
167.5°	2078.3	2083.2	2078.3	2073.5	2072.3	2055.0	2031.9	2020.4	2015.6	2005.9	1998.6
170°	2072.3	2072.3	2072.3	2072.3	2072.3	2055.0	2031.9	2020.4	2020.1	2019.5	2019.0
172.5°	2056.0	2051.8	2056.0	2060.3	2061.4	2047.8	2029.6	2020.4	2020.4	2020.4	2020.4
175°	2046.4	2046.4	2046.4	2046.4	2046.4	2037.7	2026.2	2020.4	2023.2	2028.6	2032.7
177.5°	2037.6	2032.7	2037.6	2042.4	2043.6	2036.8	2027.7	2023.2	2025.3	2029.6	2032.7
180°	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3732.0	3711.1	3711.1	3676.3	3662.3	3651.9	3634.5	3582.3	3568.4	3554.4	3575.3
5°	3763.3	3725.1	3697.2	3634.5	3582.3	3561.4	3495.3	3370.0	3286.3	3223.7	3188.9
7.5°	3770.3	3721.5	3669.3	3571.9	3446.5	3390.9	3188.9	2959.2	2896.5	2840.8	2805.9
10°	3763.3	3707.7	3634.5	3488.3	3192.4	3094.9	2892.9	2743.3	2705.0	2694.5	2705.0
12.5°	3738.9	3686.8	3585.8	3342.1	2927.8	2861.7	2743.3	2656.2	2649.3	2666.7	2760.7
15°	3697.2	3648.5	3530.1	3147.1	2781.6	2732.8	2649.3	2618.0	2656.2	2778.1	3060.1
17.5°	3655.4	3599.7	3453.5	2955.7	2670.2	2635.3	2576.1	2638.9	2854.7	3018.3	3112.3
20°	3599.7	3533.6	3366.4	2816.4	2590.1	2558.8	2530.9	2812.9	2976.6	3035.8	3087.9
22.5°	3533.6	3463.9	3248.0	2719.0	2506.6	2482.2	2499.6	2910.4	2976.6	3018.3	3063.6
25°	3446.5	3387.3	3108.8	2642.4	2440.4	2412.6	2478.7	2900.0	2938.3	2948.7	3039.2
27.5°	3366.4	3289.9	2962.6	2572.7	2360.3	2349.9	2496.1	2854.7	2882.6	2892.9	2990.4
30°	3268.9	3154.1	2799.0	2499.6	2276.8	2273.3	2499.6	2799.0	2792.0	2819.9	2917.4
32.5°	3168.0	2952.1	2614.4	2409.1	2196.7	2193.2	2475.2	2715.4	2708.5	2746.8	2819.9
35°	3074.1	2795.5	2363.9	2304.7	2095.8	2099.2	2416.0	2618.0	2621.5	2656.2	2701.5
37.5°	2976.6	2659.8	2088.8	2189.8	1998.3	1998.3	2335.9	2527.5	2520.5	2530.9	2593.6
40°	2861.7	2447.4	1845.1	2040.0	1907.8	1897.3	2238.5	2430.0	2405.6	2402.2	2489.2
42.5°	2739.8	2214.1	1664.1	1841.6	1803.3	1789.4	2120.1	2311.6	2266.4	2276.8	2388.2
45°	2607.5	2151.5	1524.8	1556.2	1695.4	1684.9	1991.3	2175.8	2144.5	2172.4	2287.3
47.5°	2475.2	2026.2	1479.6	1291.5	1580.5	1577.1	1848.6	2043.5	2026.2	2054.0	2175.8
50°	2294.2	1886.9	1476.1	1107.1	1451.7	1465.6	1678.0	1914.7	1914.7	1939.1	2067.9
52.5°	2060.9	1716.3	1340.3	1002.6	1302.0	1343.8	1528.3	1803.3	1810.3	1834.7	1949.6
55°	1848.6	1538.8	1242.8	922.6	1124.5	1215.0	1382.1	1688.4	1702.4	1726.7	1831.2
57.5°	1653.7	1281.1	1222.0	828.6	960.9	1047.9	1253.2	1577.1	1584.0	1604.9	1705.8
60°	1444.7	926.0	1121.0	727.6	818.1	884.3	1134.9	1444.7	1469.1	1483.0	1570.1
62.5°	1208.0	671.9	1016.5	657.9	748.5	762.5	1037.4	1319.4	1350.7	1361.2	1413.4
65°	859.9	564.0	863.4	598.8	675.4	678.8	933.0	1190.6	1218.5	1235.9	1274.2
67.5°	581.3	459.5	657.9	543.1	619.6	623.2	832.0	1040.9	1079.2	1093.1	1117.6
70°	403.8	306.4	487.4	483.9	557.0	564.0	724.2	905.2	940.0	950.4	964.3
72.5°	295.9	247.2	403.8	435.2	490.9	497.8	612.7	752.0	786.8	797.2	804.2
75°	226.3	261.1	327.3	379.4	417.7	421.2	501.3	612.7	637.1	644.1	647.5
77.5°	181.0	243.7	240.2	306.4	341.1	334.2	393.4	473.5	494.3	494.3	494.3
80°	135.8	191.5	181.0	219.3	250.7	243.7	282.0	337.7	344.6	351.6	348.2
82.5°	100.9	121.8	121.8	139.2	167.1	160.1	188.0	219.3	219.3	219.3	226.3
85°	62.6	69.6	55.7	73.1	94.0	90.6	104.4	118.4	121.8	121.8	114.9
87.5°	38.3	31.4	17.4	27.8	41.8	41.8	48.7	52.3	48.7	48.7	48.7
90°	35.5	24.5	13.6	24.5	35.5	38.2	60.0	89.1	103.6	92.1	69.1
92.5°	240.1	147.3	54.5	147.3	240.1	263.3	370.2	512.7	583.9	511.7	367.4
95°	470.5	300.7	131.0	300.7	470.5	512.9	910.8	1441.4	1706.6	1522.9	1155.5
97.5°	526.0	376.2	226.4	376.2	526.0	563.4	1226.9	2111.5	2553.8	2437.7	2205.5
100°	571.8	436.0	300.1	436.0	571.8	605.8	1342.0	2323.6	2814.4	2822.9	2839.9
102.5°	616.3	489.7	362.9	489.7	616.3	648.0	1394.7	2390.3	2888.1	3036.0	3331.9
105°	683.9	576.6	469.3	576.6	683.9	710.8	1433.8	2397.8	2879.9	3211.5	3874.9
107.5°	778.5	678.5	578.4	678.5	778.5	803.6	1441.1	2291.2	2716.2	3178.8	4104.0
110°	832.8	742.4	652.1	742.4	832.8	855.4	1430.1	2196.5	2579.7	3097.0	4131.4



TEST NUMBER: P935653

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	896.6	810.5	724.4	810.5	896.6	918.1	1430.6	2114.0	2455.6	2985.0	4043.6
115°	992.4	912.9	833.5	912.9	992.4	1012.2	1443.8	2019.2	2306.9	2816.9	3836.7
117.5°	1085.7	1013.5	941.4	1013.5	1085.7	1103.7	1470.6	1959.9	2204.6	2664.9	3585.2
120°	1139.9	1072.0	1004.1	1072.0	1139.9	1156.9	1492.5	1940.0	2163.7	2584.2	3425.2
122.5°	1202.5	1134.0	1065.5	1134.0	1202.5	1219.6	1523.9	1929.5	2132.3	2511.0	3268.2
125°	1284.5	1222.1	1159.6	1222.1	1284.5	1300.1	1566.2	1920.8	2098.2	2419.8	3063.2
127.5°	1362.2	1299.1	1236.0	1299.1	1362.2	1377.9	1608.4	1915.8	2069.5	2345.7	2898.0
130°	1412.7	1344.9	1277.0	1344.9	1412.7	1429.7	1639.3	1918.9	2058.6	2304.5	2796.2
132.5°	1455.1	1387.1	1319.2	1387.1	1455.1	1472.0	1664.4	1920.8	2049.1	2269.2	2709.4
135°	1505.7	1443.8	1382.0	1443.8	1505.7	1521.1	1691.7	1919.1	2032.7	2217.1	2585.7
137.5°	1568.6	1507.3	1446.1	1507.3	1568.6	1583.8	1732.5	1930.9	2030.0	2185.8	2497.4
140°	1612.0	1555.6	1499.3	1555.6	1612.0	1626.2	1757.6	1932.8	2020.4	2155.0	2424.2
142.5°	1644.5	1592.4	1540.2	1592.4	1644.5	1657.5	1778.5	1939.8	2020.4	2138.7	2375.2
145°	1694.0	1648.5	1603.0	1648.5	1694.0	1705.3	1805.8	1939.8	2006.8	2103.5	2296.9
147.5°	1754.2	1710.0	1665.7	1710.0	1754.2	1765.3	1845.8	1953.2	2006.8	2082.9	2235.1
150°	1786.7	1746.7	1706.6	1746.7	1786.7	1796.7	1866.7	1960.1	2006.8	2071.1	2199.6
152.5°	1809.7	1779.3	1749.0	1779.3	1809.7	1817.2	1880.4	1964.7	2006.8	2061.7	2171.4
155°	1856.6	1834.2	1811.7	1834.2	1856.6	1862.2	1910.4	1974.7	2006.8	2050.5	2137.8
157.5°	1901.8	1879.9	1858.1	1879.9	1901.8	1907.2	1940.4	1984.7	2006.8	2040.7	2108.6
160°	1923.5	1906.4	1889.5	1906.4	1923.5	1927.7	1954.0	1989.3	2006.8	2035.9	2094.1
162.5°	1946.3	1933.6	1920.8	1933.6	1946.3	1949.5	1968.6	1994.1	2006.8	2031.4	2080.5
165°	1977.9	1966.4	1954.9	1966.4	1977.9	1980.8	1989.5	2001.0	2006.8	2024.4	2059.5
167.5°	1997.3	1991.8	1986.4	1991.8	1997.3	1998.6	2005.9	2015.6	2020.4	2031.9	2055.0
170°	2017.7	2012.3	2006.8	2012.3	2017.7	2019.0	2019.5	2020.1	2020.4	2031.9	2055.0
172.5°	2020.2	2019.0	2017.7	2019.0	2020.2	2020.4	2020.4	2020.4	2020.4	2029.6	2047.8
175°	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2028.6	2023.2	2020.4	2026.2	2037.7
177.5°	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2029.6	2025.3	2023.2	2027.7	2036.8
180°	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7



TEST NUMBER: P935653

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3551.0	3540.5	3554.4	3516.1	3554.4	3540.5	3551.0	3575.3	3554.4	3568.4	3582.3
5°	3115.8	3098.4	3042.7	2997.5	3042.7	3098.4	3115.8	3188.9	3223.7	3286.3	3370.0
7.5°	2785.1	2771.1	2757.3	2729.3	2757.3	2771.1	2785.1	2805.9	2840.8	2896.5	2959.2
10°	2711.9	2715.4	2736.3	2732.8	2736.3	2715.4	2711.9	2705.0	2694.5	2705.0	2743.3
12.5°	2900.0	2931.2	3046.1	3039.2	3046.1	2931.2	2900.0	2760.7	2666.7	2649.3	2656.2
15°	3115.8	3126.2	3150.6	3154.1	3150.6	3126.2	3115.8	3060.1	2778.1	2656.2	2618.0
17.5°	3136.7	3140.2	3157.6	3157.6	3157.6	3140.2	3136.7	3112.3	3018.3	2854.7	2638.9
20°	3119.3	3126.2	3161.0	3168.0	3161.0	3126.2	3119.3	3087.9	3035.8	2976.6	2812.9
22.5°	3112.3	3126.2	3154.1	3150.6	3154.1	3126.2	3112.3	3063.6	3018.3	2976.6	2910.4
25°	3077.5	3077.5	3081.0	3084.4	3081.0	3077.5	3077.5	3039.2	2948.7	2938.3	2900.0
27.5°	3004.4	3011.3	3032.2	3028.7	3032.2	3011.3	3004.4	2990.4	2892.9	2882.6	2854.7
30°	2938.3	2931.2	2913.9	2900.0	2913.9	2931.2	2938.3	2917.4	2819.9	2792.0	2799.0
32.5°	2826.8	2809.4	2792.0	2781.6	2792.0	2809.4	2826.8	2819.9	2746.8	2708.5	2715.4
35°	2694.5	2698.1	2694.5	2684.1	2694.5	2698.1	2694.5	2701.5	2656.2	2621.5	2618.0
37.5°	2600.6	2607.5	2604.1	2590.1	2604.1	2607.5	2600.6	2593.6	2530.9	2520.5	2527.5
40°	2503.1	2506.6	2503.1	2492.6	2503.1	2506.6	2503.1	2489.2	2402.2	2405.6	2430.0
42.5°	2409.1	2405.6	2395.1	2388.2	2395.1	2405.6	2409.1	2388.2	2276.8	2266.4	2311.6
45°	2301.1	2304.7	2283.8	2273.3	2283.8	2304.7	2301.1	2287.3	2172.4	2144.5	2175.8
47.5°	2193.2	2193.2	2175.8	2165.4	2175.8	2193.2	2193.2	2175.8	2054.0	2026.2	2043.5
50°	2078.3	2074.9	2050.5	2047.1	2050.5	2074.9	2078.3	2067.9	1939.1	1914.7	1914.7
52.5°	1946.1	1946.1	1949.6	1956.5	1949.6	1946.1	1946.1	1949.6	1834.7	1810.3	1803.3
55°	1831.2	1834.7	1859.0	1866.0	1859.0	1834.7	1831.2	1831.2	1726.7	1702.4	1688.4
57.5°	1712.8	1712.8	1730.3	1730.3	1730.3	1712.8	1712.8	1705.8	1604.9	1584.0	1577.1
60°	1577.1	1584.0	1597.9	1594.5	1597.9	1584.0	1577.1	1570.1	1483.0	1469.1	1444.7
62.5°	1434.3	1441.3	1444.7	1437.8	1444.7	1441.3	1434.3	1413.4	1361.2	1350.7	1319.4
65°	1284.6	1291.5	1295.1	1288.1	1295.1	1291.5	1284.6	1274.2	1235.9	1218.5	1190.6
67.5°	1131.4	1127.9	1124.5	1138.4	1124.5	1127.9	1131.4	1117.6	1093.1	1079.2	1040.9
70°	974.7	974.7	971.3	978.3	971.3	974.7	974.7	964.3	950.4	940.0	905.2
72.5°	807.7	804.2	818.1	807.7	818.1	804.2	807.7	804.2	797.2	786.8	752.0
75°	644.1	651.0	644.1	654.5	644.1	651.0	644.1	647.5	644.1	637.1	612.7
77.5°	490.9	497.8	490.9	490.9	490.9	497.8	490.9	494.3	494.3	494.3	473.5
80°	348.2	344.6	344.6	341.1	344.6	344.6	348.2	348.2	351.6	344.6	337.7
82.5°	222.8	219.3	219.3	226.3	219.3	219.3	222.8	226.3	219.3	219.3	219.3
85°	121.8	125.3	118.4	118.4	118.4	125.3	121.8	114.9	121.8	121.8	118.4
87.5°	45.2	41.8	41.8	41.8	41.8	41.8	45.2	48.7	48.7	48.7	52.3
90°	51.8	51.8	51.8	51.8	51.8	51.8	51.8	69.1	92.1	103.6	89.1
92.5°	259.2	248.9	207.6	166.4	207.6	248.9	259.2	367.4	511.7	583.9	512.7
95°	880.0	848.7	723.8	598.9	723.8	848.7	880.0	1155.5	1522.9	1706.6	1441.4
97.5°	2031.3	1971.9	1734.2	1496.5	1734.2	1971.9	2031.3	2205.5	2437.7	2553.8	2111.5
100°	2852.6	2781.8	2498.7	2215.5	2498.7	2781.8	2852.6	2839.9	2822.9	2814.4	2323.6
102.5°	3553.9	3493.3	3250.7	3008.2	3250.7	3493.3	3553.9	3331.9	3036.0	2888.1	2390.3
105°	4372.4	4339.8	4209.4	4079.1	4209.4	4339.8	4372.4	3874.9	3211.5	2879.9	2397.8
107.5°	4798.0	4805.9	4837.4	4868.9	4837.4	4805.9	4798.0	4104.0	3178.8	2716.2	2291.2
110°	4907.2	4941.1	5076.9	5212.7	5076.9	4941.1	4907.2	4131.4	3097.0	2579.7	2196.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4837.6	4889.8	5098.3	5306.9	5098.3	4889.8	4837.6	4043.6	2985.0	2455.6	2114.0
115°	4601.6	4673.9	4963.1	5252.3	4963.1	4673.9	4601.6	3836.7	2816.9	2306.9	2019.2
117.5°	4275.5	4355.7	4676.4	4997.2	4676.4	4355.7	4275.5	3585.2	2664.9	2204.6	1959.9
120°	4055.9	4133.8	4445.4	4757.1	4445.4	4133.8	4055.9	3425.2	2584.2	2163.7	1940.0
122.5°	3836.2	3913.1	4220.5	4527.9	4220.5	3913.1	3836.2	3268.2	2511.0	2132.3	1929.5
125°	3545.6	3616.4	3899.6	4182.7	3899.6	3616.4	3545.6	3063.2	2419.8	2098.2	1920.8
127.5°	3312.3	3372.1	3611.0	3849.9	3611.0	3372.1	3312.3	2898.0	2345.7	2069.5	1915.8
130°	3165.0	3220.2	3440.9	3661.6	3440.9	3220.2	3165.0	2796.2	2304.5	2058.6	1918.9
132.5°	3039.5	3089.0	3286.6	3484.2	3286.6	3089.0	3039.5	2709.4	2269.2	2049.1	1920.8
135°	2862.2	2904.8	3075.1	3245.5	3075.1	2904.8	2862.2	2585.7	2217.1	2032.7	1919.1
137.5°	2731.2	2766.0	2905.5	3045.0	2905.5	2766.0	2731.2	2497.4	2185.8	2030.0	1930.9
140°	2626.1	2658.7	2789.1	2919.5	2789.1	2658.7	2626.1	2424.2	2155.0	2020.4	1932.8
142.5°	2552.5	2580.5	2692.7	2804.9	2692.7	2580.5	2552.5	2375.2	2138.7	2020.4	1939.8
145°	2441.9	2463.2	2548.0	2633.0	2548.0	2463.2	2441.9	2296.9	2103.5	2006.8	1939.8
147.5°	2349.2	2366.8	2437.1	2507.5	2437.1	2366.8	2349.2	2235.1	2082.9	2006.8	1953.2
150°	2296.0	2310.2	2367.3	2424.3	2367.3	2310.2	2296.0	2199.6	2071.1	2006.8	1960.1
152.5°	2253.7	2264.5	2307.6	2350.6	2307.6	2264.5	2253.7	2171.4	2061.7	2006.8	1964.7
155°	2203.2	2210.3	2238.9	2267.3	2238.9	2210.3	2203.2	2137.8	2050.5	2006.8	1974.7
157.5°	2159.6	2164.6	2184.6	2204.6	2184.6	2164.6	2159.6	2108.6	2040.7	2006.8	1984.7
160°	2137.8	2140.7	2152.2	2163.7	2152.2	2140.7	2137.8	2094.1	2035.9	2006.8	1989.3
162.5°	2117.3	2120.0	2130.9	2141.8	2130.9	2120.0	2117.3	2080.5	2031.4	2006.8	1994.1
165°	2085.9	2088.8	2100.3	2111.9	2100.3	2088.8	2085.9	2059.5	2024.4	2006.8	2001.0
167.5°	2072.3	2073.5	2078.3	2083.2	2078.3	2073.5	2072.3	2055.0	2031.9	2020.4	2015.6
170°	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3	2072.3	2055.0	2031.9	2020.4	2020.1
172.5°	2061.4	2060.3	2056.0	2051.8	2056.0	2060.3	2061.4	2047.8	2029.6	2020.4	2020.4
175°	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2046.4	2037.7	2026.2	2020.4	2023.2
177.5°	2043.6	2042.4	2037.6	2032.7	2037.6	2042.4	2043.6	2036.8	2027.7	2023.2	2025.3
180°	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7	2032.7



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	3679.7	3679.7	3679.7	3679.7	3679.7
2.5°	3634.5	3651.9	3662.3	3676.3	3711.1
5°	3495.3	3561.4	3582.3	3634.5	3697.2
7.5°	3188.9	3390.9	3446.5	3571.9	3669.3
10°	2892.9	3094.9	3192.4	3488.3	3634.5
12.5°	2743.3	2861.7	2927.8	3342.1	3585.8
15°	2649.3	2732.8	2781.6	3147.1	3530.1
17.5°	2576.1	2635.3	2670.2	2955.7	3453.5
20°	2530.9	2558.8	2590.1	2816.4	3366.4
22.5°	2499.6	2482.2	2506.6	2719.0	3248.0
25°	2478.7	2412.6	2440.4	2642.4	3108.8
27.5°	2496.1	2349.9	2360.3	2572.7	2962.6
30°	2499.6	2273.3	2276.8	2499.6	2799.0
32.5°	2475.2	2193.2	2196.7	2409.1	2614.4
35°	2416.0	2099.2	2095.8	2304.7	2363.9
37.5°	2335.9	1998.3	1998.3	2189.8	2088.8
40°	2238.5	1897.3	1907.8	2040.0	1845.1
42.5°	2120.1	1789.4	1803.3	1841.6	1664.1
45°	1991.3	1684.9	1695.4	1556.2	1524.8
47.5°	1848.6	1577.1	1580.5	1291.5	1479.6
50°	1678.0	1465.6	1451.7	1107.1	1476.1
52.5°	1528.3	1343.8	1302.0	1002.6	1340.3
55°	1382.1	1215.0	1124.5	922.6	1242.8
57.5°	1253.2	1047.9	960.9	828.6	1222.0
60°	1134.9	884.3	818.1	727.6	1121.0
62.5°	1037.4	762.5	748.5	657.9	1016.5
65°	933.0	678.8	675.4	598.8	863.4
67.5°	832.0	623.2	619.6	543.1	657.9
70°	724.2	564.0	557.0	483.9	487.4
72.5°	612.7	497.8	490.9	435.2	403.8
75°	501.3	421.2	417.7	379.4	327.3
77.5°	393.4	334.2	341.1	306.4	240.2
80°	282.0	243.7	250.7	219.3	181.0
82.5°	188.0	160.1	167.1	139.2	121.8
85°	104.4	90.6	94.0	73.1	55.7
87.5°	48.7	41.8	41.8	27.8	17.4
90°	60.0	38.2	35.5	24.5	13.6
92.5°	370.2	263.3	240.1	147.3	54.5
95°	910.8	512.9	470.5	300.7	131.0
97.5°	1226.9	563.4	526.0	376.2	226.4
100°	1342.0	605.8	571.8	436.0	300.1
102.5°	1394.7	648.0	616.3	489.7	362.9
105°	1433.8	710.8	683.9	576.6	469.3
107.5°	1441.1	803.6	778.5	678.5	578.4
110°	1430.1	855.4	832.8	742.4	652.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1430.6	918.1	896.6	810.5	724.4
115°	1443.8	1012.2	992.4	912.9	833.5
117.5°	1470.6	1103.7	1085.7	1013.5	941.4
120°	1492.5	1156.9	1139.9	1072.0	1004.1
122.5°	1523.9	1219.6	1202.5	1134.0	1065.5
125°	1566.2	1300.1	1284.5	1222.1	1159.6
127.5°	1608.4	1377.9	1362.2	1299.1	1236.0
130°	1639.3	1429.7	1412.7	1344.9	1277.0
132.5°	1664.4	1472.0	1455.1	1387.1	1319.2
135°	1691.7	1521.1	1505.7	1443.8	1382.0
137.5°	1732.5	1583.8	1568.6	1507.3	1446.1
140°	1757.6	1626.2	1612.0	1555.6	1499.3
142.5°	1778.5	1657.5	1644.5	1592.4	1540.2
145°	1805.8	1705.3	1694.0	1648.5	1603.0
147.5°	1845.8	1765.3	1754.2	1710.0	1665.7
150°	1866.7	1796.7	1786.7	1746.7	1706.6
152.5°	1880.4	1817.2	1809.7	1779.3	1749.0
155°	1910.4	1862.2	1856.6	1834.2	1811.7
157.5°	1940.4	1907.2	1901.8	1879.9	1858.1
160°	1954.0	1927.7	1923.5	1906.4	1889.5
162.5°	1968.6	1949.5	1946.3	1933.6	1920.8
165°	1989.5	1980.8	1977.9	1966.4	1954.9
167.5°	2005.9	1998.6	1997.3	1991.8	1986.4
170°	2019.5	2019.0	2017.7	2012.3	2006.8
172.5°	2020.4	2020.4	2020.2	2019.0	2017.7
175°	2028.6	2032.7	2032.7	2032.7	2032.7
177.5°	2029.6	2032.7	2032.7	2032.7	2032.7
180°	2032.7	2032.7	2032.7	2032.7	2032.7



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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	12.48	13.27	13.50	14.30	15.68	15.33	16.12	16.35	17.15	18.53
	3H	12.95	13.66	13.98	14.70	16.10	16.67	17.39	17.71	18.43	19.83
	4H	13.14	13.81	14.18	14.85	16.26	17.12	17.79	18.16	18.84	20.24
	6H	13.25	13.87	14.31	14.92	16.34	17.41	18.03	18.46	19.07	20.49
	8H	13.25	13.84	14.31	14.90	16.32	17.48	18.07	18.54	19.13	20.55
	12H	13.22	13.78	14.28	14.84	16.28	17.52	18.08	18.59	19.14	20.58
4H	2H	13.50	14.18	14.56	15.22	16.63	15.73	16.40	16.78	17.44	18.85
	3H	14.53	15.09	15.59	16.16	17.58	17.23	17.79	18.29	18.86	20.29
	4H	14.80	15.31	15.87	16.37	17.82	17.76	18.28	18.83	19.34	20.78
	6H	14.92	15.36	16.00	16.45	17.88	18.13	18.57	19.20	19.66	21.09
	8H	14.92	15.34	16.00	16.41	17.87	18.24	18.65	19.31	19.73	21.18
	12H	14.89	15.26	15.98	16.35	17.81	18.29	18.67	19.39	19.76	21.22
8H	4H	15.25	15.66	16.33	16.74	18.19	17.88	18.29	18.96	19.37	20.82
	6H	15.51	15.85	16.61	16.97	18.42	18.32	18.66	19.42	19.78	21.23
	8H	15.55	15.85	16.66	16.95	18.42	18.48	18.77	19.58	19.88	21.35
	12H	15.53	15.80	16.64	16.89	18.40	18.57	18.84	19.68	19.93	21.44
12H	4H	15.25	15.63	16.35	16.72	18.18	17.84	18.22	18.94	19.31	20.76
	6H	15.57	15.87	16.68	16.97	18.44	18.32	18.62	19.42	19.72	21.19
	8H	15.63	15.90	16.74	16.99	18.50	18.48	18.74	19.59	19.84	21.35