

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: P936149

Luminaire Tested: SQ4-FA-150U-125D-930-1D-UNV-STD-W-12

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936149
REPORT IS A COMBINATION OF REPORTS P933781 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-125D-930-1D-UNV-STD-W-12
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

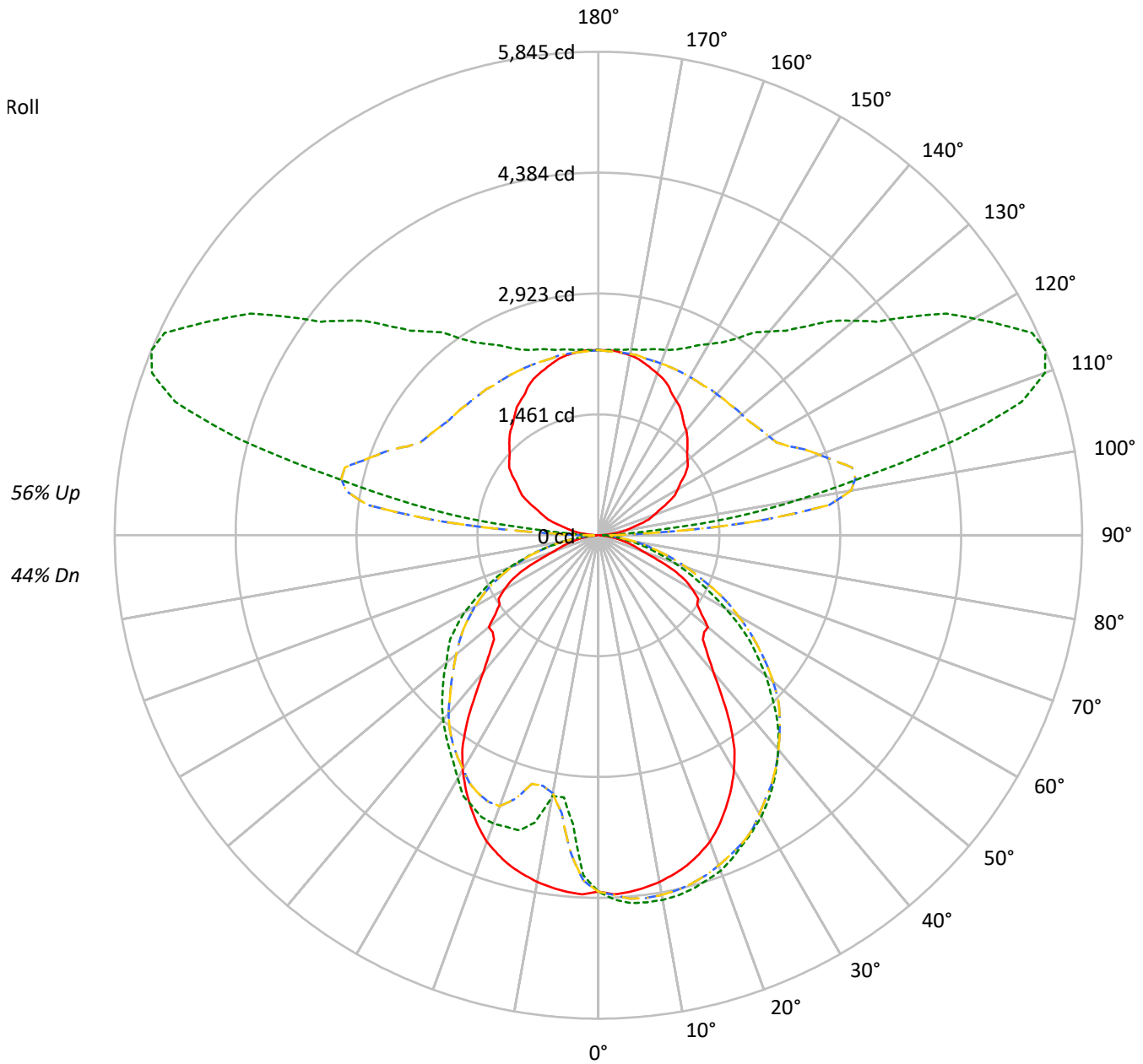
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 25693.6 lumens
Efficiency: N/A
Efficacy: 102.9 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): 249.6
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				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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44	44	44	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37	37	37	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31	31	31	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26	26	26	26
4	73	63	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22	22	22	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19	19	19	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17	17	17	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15	15	15	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13	13	13	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12	12	12	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	16	18	15	13	11	11	11	11

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	13328	13328	13328	13328
5°	13432	13454	13432	10579
10°	13347	13252	13347	9474
15°	13207	12965	13207	10826
20°	12936	12625	12936	10849
25°	12376	12129	12376	10619
30°	11650	11717	11650	10114
35°	10391	11196	10391	9560
40°	8663	10583	8663	9140
45°	7746	9865	7746	8658
50°	8236	9009	8236	8175
55°	7756	8086	7756	7895
60°	8005	6868	8005	7231
65°	7269	5678	7269	6346
70°	5046	4525	5046	5320
75°	4441	3344	4441	4005
80°	3606	2211	3606	2408
85°	2113	1171	2113	995

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11864 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	389.0	1.5
10°-20°	1104.3	4.3
20°-30°	1707.1	6.6
30°-40°	2037.9	7.9
40°-50°	2049.9	8.0
50°-60°	1783.6	6.9
60°-70°	1264.7	4.9
70°-80°	669.1	2.6
80°-90°	175.2	0.7
90°-100°	1091.3	4.2
100°-110°	2869.0	11.2
110°-120°	2974.9	11.6
120°-130°	2386.2	9.3
130°-140°	1872.3	7.3
140°-150°	1437.1	5.6
150°-160°	1034.9	4.0
160°-170°	633.2	2.5
170°-180°	213.9	0.8
0°-30°	3200.4	12.5
0°-40°	5238.3	20.4
0°-60°	9071.8	35.3
0°-90°	11180.7	43.5
90°-120°	6935.2	27.0
90°-150°	12630.8	49.2
90°-180°	14513.0	56.5
0°-180°	25693.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4309	4309	4309	4309	4309	
5°	4329	4464	4329	3510	4329	411
15°	4134	4423	4134	3693	4134	1163
25°	3640	4125	3640	3612	3640	1671
35°	2768	3681	2768	3143	2768	1712
45°	1786	3033	1786	2662	1786	1430
55°	1455	2238	1455	2185	1455	1337
65°	1011	1349	1011	1508	1011	966
75°	383	640	383	766	383	403
85°	65	163	65	139	65	88
90°	15	57	15	57	15	15
95°	144	660	144	660	144	160
105°	517	4492	517	4492	517	548
115°	918	5785	918	5785	918	907
125°	1277	4607	1277	4607	1277	1134
135°	1522	3574	1522	3574	1522	1178
145°	1766	2900	1766	2900	1766	1106
155°	1995	2497	1995	2497	1995	917
165°	2153	2326	2153	2326	2153	608
175°	2239	2254	2239	2254	2239	213
180°	2239	2239	2239	2239	2239	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9
2.5°	4345.6	4345.6	4370.0	4378.2	4378.2	4365.9	4353.7	4365.9	4402.6	4414.9	4410.8
5°	4329.2	4361.9	4406.7	4414.9	4423.0	4418.9	4410.8	4418.9	4459.7	4467.9	4471.9
7.5°	4296.6	4357.8	4414.9	4427.1	4439.3	4427.1	4423.0	4431.2	4471.9	4480.1	4480.1
10°	4255.9	4341.5	4406.7	4414.9	4427.1	4414.9	4414.9	4431.2	4471.9	4480.1	4484.2
12.5°	4198.8	4317.0	4378.2	4386.3	4402.6	4398.5	4394.5	4410.8	4451.5	4459.7	4459.7
15°	4133.6	4272.2	4329.2	4337.4	4365.9	4357.8	4357.8	4374.1	4418.9	4431.2	4427.1
17.5°	4043.9	4215.1	4280.3	4292.6	4312.9	4308.9	4312.9	4329.2	4370.0	4378.2	4382.2
20°	3942.0	4137.6	4215.1	4227.3	4247.7	4247.7	4247.7	4268.1	4308.9	4325.2	4325.2
22.5°	3803.4	4056.1	4137.6	4145.8	4170.3	4170.3	4178.4	4206.9	4243.6	4247.7	4247.7
25°	3640.3	3966.4	4035.7	4060.2	4084.7	4096.9	4109.1	4125.4	4137.6	4133.6	4137.6
27.5°	3469.1	3852.3	3942.0	3958.3	3990.9	4003.1	4019.4	4023.5	4027.6	4039.8	4031.7
30°	3277.5	3693.3	3827.8	3844.1	3897.1	3905.3	3889.0	3897.1	3917.5	3925.7	3933.8
32.5°	3061.4	3456.9	3709.6	3746.3	3795.2	3770.8	3766.7	3778.9	3811.5	3811.5	3819.7
35°	2767.9	3273.4	3599.5	3632.1	3668.8	3640.3	3656.6	3660.7	3681.1	3693.3	3689.2
37.5°	2445.9	3114.4	3485.4	3509.9	3538.4	3501.7	3526.2	3538.4	3554.7	3546.5	3546.5
40°	2160.6	2865.7	3350.9	3367.2	3391.6	3363.1	3387.6	3395.7	3403.9	3395.7	3391.6
42.5°	1948.6	2592.6	3208.2	3228.6	3212.3	3232.6	3240.8	3257.1	3244.9	3228.6	3228.6
45°	1785.5	2519.3	3053.3	3077.7	3053.3	3085.9	3098.1	3098.1	3061.4	3053.3	3049.2
47.5°	1732.6	2372.5	2898.4	2898.4	2886.1	2926.9	2947.3	2918.7	2882.1	2869.8	2869.8
50°	1728.5	2209.5	2686.4	2670.1	2727.1	2776.1	2755.7	2727.1	2698.6	2653.8	2653.8
52.5°	1569.5	2009.7	2413.3	2474.4	2564.1	2592.6	2560.0	2531.5	2482.6	2462.2	2445.9
55°	1455.3	1801.9	2164.6	2286.9	2380.7	2417.4	2356.2	2327.7	2254.3	2242.1	2233.9
57.5°	1430.9	1500.2	1936.4	2091.3	2205.4	2201.3	2164.6	2111.6	2050.5	2038.3	2034.2
60°	1312.7	1084.4	1691.8	1875.2	1993.4	1981.2	1948.6	1899.7	1842.6	1834.5	1826.3
62.5°	1190.4	786.8	1414.6	1622.5	1789.6	1785.5	1757.0	1683.6	1642.9	1622.5	1606.2
65°	1011.0	660.4	1006.9	1349.4	1589.9	1598.0	1536.9	1483.9	1439.0	1414.6	1410.5
67.5°	770.5	538.1	680.8	1125.1	1398.3	1390.1	1312.7	1288.2	1231.1	1218.9	1194.4
70°	570.7	358.7	472.9	913.2	1210.7	1190.4	1129.2	1100.7	1047.7	1019.1	1002.8
72.5°	472.9	289.4	346.5	709.3	1019.1	994.7	941.7	909.1	864.2	839.8	823.5
75°	383.2	305.7	265.0	525.9	827.5	811.2	762.3	729.7	693.0	660.4	664.5
77.5°	281.3	285.4	212.0	387.3	656.3	631.9	603.3	562.6	546.3	513.7	513.7
80°	212.0	224.2	159.0	265.0	472.9	472.9	448.4	419.9	391.4	375.0	375.0
82.5°	142.7	142.7	118.2	167.1	322.1	309.8	293.5	285.4	269.1	260.9	260.9
85°	65.2	81.5	73.4	101.9	175.3	183.4	183.4	175.3	171.2	163.1	167.1
87.5°	20.4	36.7	44.8	57.1	89.7	93.8	97.8	97.8	97.8	101.9	101.9
90°	15.0	27.1	39.1	42.1	66.1	98.1	114.2	101.5	76.1	57.1	57.1
92.5°	60.1	162.2	264.4	290.0	407.7	564.6	643.0	563.5	404.6	285.5	274.1
95°	144.2	331.2	518.2	564.9	1003.2	1587.5	1879.7	1677.3	1272.7	969.1	934.8
97.5°	249.4	414.3	579.3	620.6	1351.3	2325.6	2812.7	2684.8	2429.1	2237.2	2171.8
100°	330.5	480.1	629.7	667.1	1478.0	2559.1	3099.7	3109.0	3127.7	3141.7	3063.8
102.5°	399.7	539.2	678.8	713.7	1536.1	2632.6	3180.8	3343.8	3669.6	3914.1	3847.3
105°	516.9	635.1	753.3	782.8	1579.2	2640.9	3171.8	3537.1	4267.6	4815.5	4779.6
107.5°	637.1	747.3	857.4	885.0	1587.1	2523.3	2991.5	3501.0	4520.0	5284.3	5293.0
110°	718.2	817.7	917.2	942.1	1575.2	2419.2	2841.3	3410.9	4550.1	5404.5	5441.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	797.9	892.7	987.5	1011.2	1575.6	2328.2	2704.5	3287.5	4453.4	5327.9	5385.3
115°	918.1	1005.5	1093.0	1114.9	1590.2	2223.9	2540.8	3102.4	4225.5	5068.0	5147.6
117.5°	1036.8	1116.2	1195.7	1215.5	1619.7	2158.5	2428.0	2934.9	3948.6	4708.9	4797.2
120°	1105.8	1180.7	1255.4	1274.1	1643.7	2136.5	2383.0	2846.1	3772.3	4466.9	4552.8
122.5°	1173.4	1248.9	1324.4	1343.3	1678.4	2125.1	2348.5	2765.5	3599.5	4225.1	4309.7
125°	1277.2	1345.9	1414.7	1431.9	1724.9	2115.6	2310.9	2665.2	3373.6	3905.0	3983.0
127.5°	1361.2	1430.7	1500.2	1517.5	1771.4	2110.0	2279.3	2583.5	3191.8	3648.1	3713.9
130°	1406.4	1481.1	1555.9	1574.6	1805.5	2113.3	2267.3	2538.0	3079.7	3485.8	3546.6
132.5°	1452.9	1527.7	1602.5	1621.2	1833.0	2115.5	2256.8	2499.2	2984.0	3347.6	3402.1
135°	1522.0	1590.1	1658.3	1675.3	1863.1	2113.6	2238.8	2441.8	2847.8	3152.3	3199.2
137.5°	1592.7	1660.1	1727.6	1744.4	1908.2	2126.5	2235.7	2407.3	2750.6	3008.0	3046.4
140°	1651.3	1713.4	1775.5	1791.0	1935.7	2128.7	2225.2	2373.4	2670.0	2892.3	2928.2
142.5°	1696.3	1753.8	1811.2	1825.5	1958.8	2136.4	2225.2	2355.4	2615.9	2811.2	2842.1
145°	1765.5	1815.6	1865.6	1878.1	1988.8	2136.4	2210.2	2316.7	2529.7	2689.5	2712.9
147.5°	1834.5	1883.3	1932.0	1944.2	2032.9	2151.1	2210.2	2294.0	2461.6	2587.3	2606.7
150°	1879.7	1923.7	1967.8	1978.8	2055.9	2158.8	2210.2	2281.0	2422.6	2528.7	2544.4
152.5°	1926.2	1959.6	1993.0	2001.3	2070.9	2163.8	2210.2	2270.6	2391.5	2482.2	2494.0
155°	1995.4	2020.1	2044.8	2050.9	2104.0	2174.8	2210.2	2258.3	2354.5	2426.6	2434.5
157.5°	2046.4	2070.5	2094.5	2100.5	2137.0	2185.8	2210.2	2247.6	2322.4	2378.5	2384.0
160°	2081.0	2099.7	2118.4	2123.1	2152.1	2190.8	2210.2	2242.2	2306.3	2354.4	2357.6
162.5°	2115.5	2129.6	2143.5	2147.1	2168.1	2196.1	2210.2	2237.2	2291.4	2331.9	2334.9
165°	2153.1	2165.8	2178.5	2181.7	2191.1	2203.8	2210.2	2229.5	2268.2	2297.3	2300.5
167.5°	2187.7	2193.7	2199.7	2201.2	2209.2	2219.9	2225.2	2237.9	2263.3	2282.3	2283.7
170°	2210.2	2216.2	2222.2	2223.7	2224.2	2224.9	2225.2	2237.9	2263.3	2282.3	2282.3
172.5°	2222.2	2223.5	2224.9	2225.2	2225.2	2225.2	2225.2	2235.2	2255.3	2270.3	2269.1
175°	2238.8	2238.8	2238.8	2238.8	2234.3	2228.2	2225.2	2231.5	2244.2	2253.8	2253.8
177.5°	2238.8	2238.8	2238.8	2238.8	2235.2	2230.6	2228.2	2233.2	2243.3	2250.7	2249.4
180°	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9
2.5°	4418.9	4406.7	4418.9	4410.8	4414.9	4402.6	4365.9	4353.7	4365.9	4378.2	4378.2
5°	4471.9	4463.8	4471.9	4471.9	4467.9	4459.7	4418.9	4410.8	4418.9	4423.0	4414.9
7.5°	4488.2	4476.0	4488.2	4480.1	4480.1	4471.9	4431.2	4423.0	4427.1	4439.3	4427.1
10°	4488.2	4476.0	4488.2	4484.2	4480.1	4471.9	4431.2	4414.9	4414.9	4427.1	4414.9
12.5°	4467.9	4459.7	4467.9	4459.7	4459.7	4451.5	4410.8	4394.5	4398.5	4402.6	4386.3
15°	4435.2	4423.0	4435.2	4427.1	4431.2	4418.9	4374.1	4357.8	4357.8	4365.9	4337.4
17.5°	4386.3	4370.0	4386.3	4382.2	4378.2	4370.0	4329.2	4312.9	4308.9	4312.9	4292.6
20°	4329.2	4317.0	4329.2	4325.2	4325.2	4308.9	4268.1	4247.7	4247.7	4247.7	4227.3
22.5°	4239.6	4227.3	4239.6	4247.7	4247.7	4243.6	4206.9	4178.4	4170.3	4170.3	4145.8
25°	4137.6	4125.4	4137.6	4137.6	4133.6	4137.6	4125.4	4109.1	4096.9	4084.7	4060.2
27.5°	4039.8	4031.7	4039.8	4031.7	4039.8	4027.6	4023.5	4019.4	4003.1	3990.9	3958.3
30°	3942.0	3933.8	3942.0	3933.8	3925.7	3917.5	3897.1	3889.0	3905.3	3897.1	3844.1
32.5°	3819.7	3811.5	3819.7	3819.7	3811.5	3811.5	3778.9	3766.7	3770.8	3795.2	3746.3
35°	3693.3	3681.1	3693.3	3689.2	3693.3	3681.1	3660.7	3656.6	3640.3	3668.8	3632.1
37.5°	3546.5	3534.3	3546.5	3546.5	3546.5	3554.7	3538.4	3526.2	3501.7	3538.4	3509.9
40°	3395.7	3379.4	3395.7	3391.6	3395.7	3403.9	3395.7	3387.6	3363.1	3391.6	3367.2
42.5°	3224.5	3220.4	3224.5	3228.6	3228.6	3244.9	3257.1	3240.8	3232.6	3212.3	3228.6
45°	3041.0	3032.9	3041.0	3049.2	3053.3	3061.4	3098.1	3098.1	3085.9	3053.3	3077.7
47.5°	2845.4	2825.0	2845.4	2869.8	2869.8	2882.1	2918.7	2947.3	2926.9	2886.1	2898.4
50°	2637.5	2641.5	2637.5	2653.8	2653.8	2698.6	2727.1	2755.7	2776.1	2727.1	2670.1
52.5°	2433.7	2429.6	2433.7	2445.9	2462.2	2482.6	2531.5	2560.0	2592.6	2564.1	2474.4
55°	2229.9	2238.0	2229.9	2233.9	2242.1	2254.3	2327.7	2356.2	2417.4	2380.7	2286.9
57.5°	2026.0	2013.8	2026.0	2034.2	2038.3	2050.5	2111.6	2164.6	2201.3	2205.4	2091.3
60°	1789.6	1773.3	1789.6	1826.3	1834.5	1842.6	1899.7	1948.6	1981.2	1993.4	1875.2
62.5°	1581.7	1553.2	1581.7	1606.2	1622.5	1642.9	1683.6	1757.0	1785.5	1789.6	1622.5
65°	1361.6	1349.4	1361.6	1410.5	1414.6	1439.0	1483.9	1536.9	1598.0	1589.9	1349.4
67.5°	1161.8	1161.8	1161.8	1194.4	1218.9	1231.1	1288.2	1312.7	1390.1	1398.3	1125.1
70°	978.4	974.3	978.4	1002.8	1019.1	1047.7	1100.7	1129.2	1190.4	1210.7	913.2
72.5°	803.1	799.0	803.1	823.5	839.8	864.2	909.1	941.7	994.7	1019.1	709.3
75°	648.2	640.0	648.2	664.5	660.4	693.0	729.7	762.3	811.2	827.5	525.9
77.5°	497.3	497.3	497.3	513.7	513.7	546.3	562.6	603.3	631.9	656.3	387.3
80°	371.0	366.9	371.0	375.0	375.0	391.4	419.9	448.4	472.9	472.9	265.0
82.5°	260.9	252.7	260.9	260.9	260.9	269.1	285.4	293.5	309.8	322.1	167.1
85°	163.1	163.1	163.1	167.1	163.1	171.2	175.3	183.4	183.4	175.3	101.9
87.5°	106.0	101.9	106.0	101.9	101.9	97.8	97.8	97.8	93.8	89.7	57.1
90°	57.1	57.1	57.1	57.1	57.1	76.1	101.5	114.2	98.1	66.1	42.1
92.5°	228.7	183.3	228.7	274.1	285.5	404.6	563.5	643.0	564.6	407.7	290.0
95°	797.1	659.6	797.1	934.8	969.1	1272.7	1677.3	1879.7	1587.5	1003.2	564.9
97.5°	1910.0	1648.2	1910.0	2171.8	2237.2	2429.1	2684.8	2812.7	2325.6	1351.3	620.6
100°	2752.0	2440.1	2752.0	3063.8	3141.7	3127.7	3109.0	3099.7	2559.1	1478.0	667.1
102.5°	3580.2	3313.0	3580.2	3847.3	3914.1	3669.6	3343.8	3180.8	2632.6	1536.1	713.7
105°	4636.1	4492.5	4636.1	4779.6	4815.5	4267.6	3537.1	3171.8	2640.9	1579.2	782.8
107.5°	5327.7	5362.4	5327.7	5293.0	5284.3	4520.0	3501.0	2991.5	2523.3	1587.1	885.0
110°	5591.5	5741.1	5591.5	5441.9	5404.5	4550.1	3410.9	2841.3	2419.2	1575.2	942.1



TEST NUMBER: P936149

CATALOG NUMBER: SQ4-FA-150U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	5615.1	5844.8	5615.1	5385.3	5327.9	4453.4	3287.5	2704.5	2328.2	1575.6	1011.2
115°	5466.1	5784.7	5466.1	5147.6	5068.0	4225.5	3102.4	2540.8	2223.9	1590.2	1114.9
117.5°	5150.4	5503.7	5150.4	4797.2	4708.9	3948.6	2934.9	2428.0	2158.5	1619.7	1215.5
120°	4896.0	5239.3	4896.0	4552.8	4466.9	3772.3	2846.1	2383.0	2136.5	1643.7	1274.1
122.5°	4648.3	4986.9	4648.3	4309.7	4225.1	3599.5	2765.5	2348.5	2125.1	1678.4	1343.3
125°	4294.8	4606.7	4294.8	3983.0	3905.0	3373.6	2665.2	2310.9	2115.6	1724.9	1431.9
127.5°	3977.0	4240.1	3977.0	3713.9	3648.1	3191.8	2583.5	2279.3	2110.0	1771.4	1517.5
130°	3789.7	4032.7	3789.7	3546.6	3485.8	3079.7	2538.0	2267.3	2113.3	1805.5	1574.6
132.5°	3619.7	3837.4	3619.7	3402.1	3347.6	2984.0	2499.2	2256.8	2115.5	1833.0	1621.2
135°	3386.8	3574.5	3386.8	3199.2	3152.3	2847.8	2441.8	2238.8	2113.6	1863.1	1675.3
137.5°	3200.0	3353.6	3200.0	3046.4	3008.0	2750.6	2407.3	2235.7	2126.5	1908.2	1744.4
140°	3071.8	3215.4	3071.8	2928.2	2892.3	2670.0	2373.4	2225.2	2128.7	1935.7	1791.0
142.5°	2965.6	3089.1	2965.6	2842.1	2811.2	2615.9	2355.4	2225.2	2136.4	1958.8	1825.5
145°	2806.4	2899.9	2806.4	2712.9	2689.5	2529.7	2316.7	2210.2	2136.4	1988.8	1878.1
147.5°	2684.2	2761.6	2684.2	2606.7	2587.3	2461.6	2294.0	2210.2	2151.1	2032.9	1944.2
150°	2607.2	2670.0	2607.2	2544.4	2528.7	2422.6	2281.0	2210.2	2158.8	2055.9	1978.8
152.5°	2541.4	2588.8	2541.4	2494.0	2482.2	2391.5	2270.6	2210.2	2163.8	2070.9	2001.3
155°	2465.8	2497.2	2465.8	2434.5	2426.6	2354.5	2258.3	2210.2	2174.8	2104.0	2050.9
157.5°	2406.0	2428.0	2406.0	2384.0	2378.5	2322.4	2247.6	2210.2	2185.8	2137.0	2100.5
160°	2370.3	2383.0	2370.3	2357.6	2354.4	2306.3	2242.2	2210.2	2190.8	2152.1	2123.1
162.5°	2346.9	2359.0	2346.9	2334.9	2331.9	2291.4	2237.2	2210.2	2196.1	2168.1	2147.1
165°	2313.2	2325.9	2313.2	2300.5	2297.3	2268.2	2229.5	2210.2	2203.8	2191.1	2181.7
167.5°	2289.0	2294.3	2289.0	2283.7	2282.3	2263.3	2237.9	2225.2	2219.9	2209.2	2201.2
170°	2282.3	2282.3	2282.3	2282.3	2282.3	2263.3	2237.9	2225.2	2224.9	2224.2	2223.7
172.5°	2264.5	2259.8	2264.5	2269.1	2270.3	2255.3	2235.2	2225.2	2225.2	2225.2	2225.2
175°	2253.8	2253.8	2253.8	2253.8	2253.8	2244.2	2231.5	2225.2	2228.2	2234.3	2238.8
177.5°	2244.1	2238.8	2244.1	2249.4	2250.7	2243.3	2233.2	2228.2	2230.6	2235.2	2238.8
180°	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9
2.5°	4370.0	4345.6	4345.6	4304.8	4288.5	4276.3	4255.9	4194.7	4178.4	4162.1	4186.6
5°	4406.7	4361.9	4329.2	4255.9	4194.7	4170.3	4092.8	3946.0	3848.2	3774.8	3734.1
7.5°	4414.9	4357.8	4296.6	4182.5	4035.7	3970.5	3734.1	3465.0	3391.6	3326.4	3285.6
10°	4406.7	4341.5	4255.9	4084.7	3738.1	3624.0	3387.6	3212.3	3167.4	3155.2	3167.4
12.5°	4378.2	4317.0	4198.8	3913.4	3428.3	3350.9	3212.3	3110.3	3102.2	3122.6	3232.6
15°	4329.2	4272.2	4133.6	3685.1	3257.1	3200.0	3102.2	3065.5	3110.3	3253.0	3583.2
17.5°	4280.3	4215.1	4043.9	3460.9	3126.7	3085.9	3016.6	3090.0	3342.7	3534.3	3644.4
20°	4215.1	4137.6	3942.0	3297.9	3032.9	2996.2	2963.6	3293.8	3485.4	3554.7	3615.8
22.5°	4137.6	4056.1	3803.4	3183.7	2935.1	2906.5	2926.9	3407.9	3485.4	3534.3	3587.3
25°	4035.7	3966.4	3640.3	3094.0	2857.6	2825.0	2902.4	3395.7	3440.5	3452.8	3558.8
27.5°	3942.0	3852.3	3469.1	3012.5	2763.8	2751.6	2922.8	3342.7	3375.3	3387.6	3501.7
30°	3827.8	3693.3	3277.5	2926.9	2666.0	2661.9	2926.9	3277.5	3269.3	3301.9	3416.1
32.5°	3709.6	3456.9	3061.4	2820.9	2572.2	2568.2	2898.4	3179.6	3171.5	3216.3	3301.9
35°	3599.5	3273.4	2767.9	2698.6	2454.0	2458.1	2829.1	3065.5	3069.6	3110.3	3163.3
37.5°	3485.4	3114.4	2445.9	2564.1	2339.9	2339.9	2735.3	2959.5	2951.4	2963.6	3037.0
40°	3350.9	2865.7	2160.6	2388.8	2233.9	2221.7	2621.2	2845.4	2816.8	2812.8	2914.7
42.5°	3208.2	2592.6	1948.6	2156.5	2111.6	2095.3	2482.6	2706.8	2653.8	2666.0	2796.4
45°	3053.3	2519.3	1785.5	1822.2	1985.3	1973.1	2331.8	2547.8	2511.1	2543.7	2678.2
47.5°	2898.4	2372.5	1732.6	1512.4	1850.8	1846.7	2164.6	2392.9	2372.5	2405.1	2547.8
50°	2686.4	2209.5	1728.5	1296.4	1699.9	1716.2	1964.9	2242.1	2242.1	2270.6	2421.4
52.5°	2413.3	2009.7	1569.5	1174.1	1524.6	1573.6	1789.6	2111.6	2119.8	2148.3	2282.8
55°	2164.6	1801.9	1455.3	1080.3	1316.7	1422.7	1618.4	1977.1	1993.4	2022.0	2144.3
57.5°	1936.4	1500.2	1430.9	970.2	1125.1	1227.1	1467.6	1846.7	1854.8	1879.3	1997.5
60°	1691.8	1084.4	1312.7	852.0	958.0	1035.5	1329.0	1691.8	1720.3	1736.6	1838.5
62.5°	1414.6	786.8	1190.4	770.5	876.5	892.8	1214.8	1545.0	1581.7	1593.9	1655.1
65°	1006.9	660.4	1011.0	701.2	790.9	794.9	1092.5	1394.2	1426.8	1447.2	1492.0
67.5°	680.8	538.1	770.5	635.9	725.6	729.7	974.3	1218.9	1263.7	1280.1	1308.6
70°	472.9	358.7	570.7	566.6	652.3	660.4	847.9	1059.9	1100.7	1112.9	1129.2
72.5°	346.5	289.4	472.9	509.6	574.8	583.0	717.5	880.5	921.3	933.5	941.7
75°	265.0	305.7	383.2	444.3	489.2	493.3	587.0	717.5	746.0	754.2	758.2
77.5°	212.0	285.4	281.3	358.7	399.5	391.4	460.7	554.4	578.9	578.9	578.9
80°	159.0	224.2	212.0	256.8	293.5	285.4	330.2	395.4	403.6	411.7	407.7
82.5°	118.2	142.7	142.7	163.1	195.7	187.5	220.1	256.8	256.8	256.8	265.0
85°	73.4	81.5	65.2	85.6	110.1	106.0	122.3	138.6	142.7	142.7	134.5
87.5°	44.8	36.7	20.4	32.6	48.9	48.9	57.1	61.1	57.1	57.1	57.1
90°	39.1	27.1	15.0	27.1	39.1	42.1	66.1	98.1	114.2	101.5	76.1
92.5°	264.4	162.2	60.1	162.2	264.4	290.0	407.7	564.6	643.0	563.5	404.6
95°	518.2	331.2	144.2	331.2	518.2	564.9	1003.2	1587.5	1879.7	1677.3	1272.7
97.5°	579.3	414.3	249.4	414.3	579.3	620.6	1351.3	2325.6	2812.7	2684.8	2429.1
100°	629.7	480.1	330.5	480.1	629.7	667.1	1478.0	2559.1	3099.7	3109.0	3127.7
102.5°	678.8	539.2	399.7	539.2	678.8	713.7	1536.1	2632.6	3180.8	3343.8	3669.6
105°	753.3	635.1	516.9	635.1	753.3	782.8	1579.2	2640.9	3171.8	3537.1	4267.6
107.5°	857.4	747.3	637.1	747.3	857.4	885.0	1587.1	2523.3	2991.5	3501.0	4520.0
110°	917.2	817.7	718.2	817.7	917.2	942.1	1575.2	2419.2	2841.3	3410.9	4550.1



TEST NUMBER: P936149

CATALOG NUMBER: SQ4-FA-150U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	987.5	892.7	797.9	892.7	987.5	1011.2	1575.6	2328.2	2704.5	3287.5	4453.4
115°	1093.0	1005.5	918.1	1005.5	1093.0	1114.9	1590.2	2223.9	2540.8	3102.4	4225.5
117.5°	1195.7	1116.2	1036.8	1116.2	1195.7	1215.5	1619.7	2158.5	2428.0	2934.9	3948.6
120°	1255.4	1180.7	1105.8	1180.7	1255.4	1274.1	1643.7	2136.5	2383.0	2846.1	3772.3
122.5°	1324.4	1248.9	1173.4	1248.9	1324.4	1343.3	1678.4	2125.1	2348.5	2765.5	3599.5
125°	1414.7	1345.9	1277.2	1345.9	1414.7	1431.9	1724.9	2115.6	2310.9	2665.2	3373.6
127.5°	1500.2	1430.7	1361.2	1430.7	1500.2	1517.5	1771.4	2110.0	2279.3	2583.5	3191.8
130°	1555.9	1481.1	1406.4	1481.1	1555.9	1574.6	1805.5	2113.3	2267.3	2538.0	3079.7
132.5°	1602.5	1527.7	1452.9	1527.7	1602.5	1621.2	1833.0	2115.5	2256.8	2499.2	2984.0
135°	1658.3	1590.1	1522.0	1590.1	1658.3	1675.3	1863.1	2113.6	2238.8	2441.8	2847.8
137.5°	1727.6	1660.1	1592.7	1660.1	1727.6	1744.4	1908.2	2126.5	2235.7	2407.3	2750.6
140°	1775.5	1713.4	1651.3	1713.4	1775.5	1791.0	1935.7	2128.7	2225.2	2373.4	2670.0
142.5°	1811.2	1753.8	1696.3	1753.8	1811.2	1825.5	1958.8	2136.4	2225.2	2355.4	2615.9
145°	1865.6	1815.6	1765.5	1815.6	1865.6	1878.1	1988.8	2136.4	2210.2	2316.7	2529.7
147.5°	1932.0	1883.3	1834.5	1883.3	1932.0	1944.2	2032.9	2151.1	2210.2	2294.0	2461.6
150°	1967.8	1923.7	1879.7	1923.7	1967.8	1978.8	2055.9	2158.8	2210.2	2281.0	2422.6
152.5°	1993.0	1959.6	1926.2	1959.6	1993.0	2001.3	2070.9	2163.8	2210.2	2270.6	2391.5
155°	2044.8	2020.1	1995.4	2020.1	2044.8	2050.9	2104.0	2174.8	2210.2	2258.3	2354.5
157.5°	2094.5	2070.5	2046.4	2070.5	2094.5	2100.5	2137.0	2185.8	2210.2	2247.6	2322.4
160°	2118.4	2099.7	2081.0	2099.7	2118.4	2123.1	2152.1	2190.8	2210.2	2242.2	2306.3
162.5°	2143.5	2129.6	2115.5	2129.6	2143.5	2147.1	2168.1	2196.1	2210.2	2237.2	2291.4
165°	2178.5	2165.8	2153.1	2165.8	2178.5	2181.7	2191.1	2203.8	2210.2	2229.5	2268.2
167.5°	2199.7	2193.7	2187.7	2193.7	2199.7	2201.2	2209.2	2219.9	2225.2	2237.9	2263.3
170°	2222.2	2216.2	2210.2	2216.2	2222.2	2223.7	2224.2	2224.9	2225.2	2237.9	2263.3
172.5°	2224.9	2223.5	2222.2	2223.5	2224.9	2225.2	2225.2	2225.2	2225.2	2235.2	2255.3
175°	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2234.3	2228.2	2225.2	2231.5	2244.2
177.5°	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2235.2	2230.6	2228.2	2233.2	2243.3
180°	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8



TEST NUMBER: P936149

CATALOG NUMBER: SQ4-FA-150U-125D-930-1D-UNV-STD-W-12

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9	4308.9
2.5°	4158.0	4145.8	4162.1	4117.3	4162.1	4145.8	4158.0	4186.6	4162.1	4178.4	4194.7
5°	3648.5	3628.1	3562.8	3509.9	3562.8	3628.1	3648.5	3734.1	3774.8	3848.2	3946.0
7.5°	3261.2	3244.9	3228.6	3196.0	3228.6	3244.9	3261.2	3285.6	3326.4	3391.6	3465.0
10°	3175.6	3179.6	3204.1	3200.0	3204.1	3179.6	3175.6	3167.4	3155.2	3167.4	3212.3
12.5°	3395.7	3432.4	3566.9	3558.8	3566.9	3432.4	3395.7	3232.6	3122.6	3102.2	3110.3
15°	3648.5	3660.7	3689.2	3693.3	3689.2	3660.7	3648.5	3583.2	3253.0	3110.3	3065.5
17.5°	3672.9	3677.0	3697.4	3697.4	3697.4	3677.0	3672.9	3644.4	3534.3	3342.7	3090.0
20°	3652.5	3660.7	3701.5	3709.6	3701.5	3660.7	3652.5	3615.8	3554.7	3485.4	3293.8
22.5°	3644.4	3660.7	3693.3	3689.2	3693.3	3660.7	3644.4	3587.3	3534.3	3485.4	3407.9
25°	3603.6	3603.6	3607.7	3611.8	3607.7	3603.6	3603.6	3558.8	3452.8	3440.5	3395.7
27.5°	3518.0	3526.2	3550.6	3546.5	3550.6	3526.2	3518.0	3501.7	3387.6	3375.3	3342.7
30°	3440.5	3432.4	3412.0	3395.7	3412.0	3432.4	3440.5	3416.1	3301.9	3269.3	3277.5
32.5°	3310.1	3289.7	3269.3	3257.1	3269.3	3289.7	3310.1	3301.9	3216.3	3171.5	3179.6
35°	3155.2	3159.3	3155.2	3143.0	3155.2	3159.3	3155.2	3163.3	3110.3	3069.6	3065.5
37.5°	3045.1	3053.3	3049.2	3032.9	3049.2	3053.3	3045.1	3037.0	2963.6	2951.4	2959.5
40°	2931.0	2935.1	2931.0	2918.7	2931.0	2935.1	2931.0	2914.7	2812.8	2816.8	2845.4
42.5°	2820.9	2816.8	2804.6	2796.4	2804.6	2816.8	2820.9	2796.4	2666.0	2653.8	2706.8
45°	2694.5	2698.6	2674.2	2661.9	2674.2	2698.6	2694.5	2678.2	2543.7	2511.1	2547.8
47.5°	2568.2	2568.2	2547.8	2535.6	2547.8	2568.2	2568.2	2547.8	2405.1	2372.5	2392.9
50°	2433.7	2429.6	2401.1	2397.0	2401.1	2429.6	2433.7	2421.4	2270.6	2242.1	2242.1
52.5°	2278.8	2278.8	2282.8	2291.0	2282.8	2278.8	2278.8	2282.8	2148.3	2119.8	2111.6
55°	2144.3	2148.3	2176.9	2185.0	2176.9	2148.3	2144.3	2144.3	2022.0	1993.4	1977.1
57.5°	2005.7	2005.7	2026.0	2026.0	2026.0	2005.7	2005.7	1997.5	1879.3	1854.8	1846.7
60°	1846.7	1854.8	1871.2	1867.1	1871.2	1854.8	1846.7	1838.5	1736.6	1720.3	1691.8
62.5°	1679.6	1687.7	1691.8	1683.6	1691.8	1687.7	1679.6	1655.1	1593.9	1581.7	1545.0
65°	1504.3	1512.4	1516.5	1508.3	1516.5	1512.4	1504.3	1492.0	1447.2	1426.8	1394.2
67.5°	1324.9	1320.8	1316.7	1333.0	1316.7	1320.8	1324.9	1308.6	1280.1	1263.7	1218.9
70°	1141.4	1141.4	1137.4	1145.5	1137.4	1141.4	1141.4	1129.2	1112.9	1100.7	1059.9
72.5°	945.8	941.7	958.0	945.8	958.0	941.7	945.8	941.7	933.5	921.3	880.5
75°	754.2	762.3	754.2	766.4	754.2	762.3	754.2	758.2	754.2	746.0	717.5
77.5°	574.8	583.0	574.8	574.8	574.8	583.0	574.8	578.9	578.9	578.9	554.4
80°	407.7	403.6	403.6	399.5	403.6	403.6	407.7	407.7	411.7	403.6	395.4
82.5°	260.9	256.8	256.8	265.0	256.8	256.8	260.9	265.0	256.8	256.8	256.8
85°	142.7	146.8	138.6	138.6	138.6	146.8	142.7	134.5	142.7	142.7	138.6
87.5°	53.0	48.9	48.9	48.9	48.9	48.9	53.0	57.1	57.1	57.1	61.1
90°	57.1	57.1	57.1	57.1	57.1	57.1	57.1	76.1	101.5	114.2	98.1
92.5°	285.5	274.1	228.7	183.3	228.7	274.1	285.5	404.6	563.5	643.0	564.6
95°	969.1	934.8	797.1	659.6	797.1	934.8	969.1	1272.7	1677.3	1879.7	1587.5
97.5°	2237.2	2171.8	1910.0	1648.2	1910.0	2171.8	2237.2	2429.1	2684.8	2812.7	2325.6
100°	3141.7	3063.8	2752.0	2440.1	2752.0	3063.8	3141.7	3127.7	3109.0	3099.7	2559.1
102.5°	3914.1	3847.3	3580.2	3313.0	3580.2	3847.3	3914.1	3669.6	3343.8	3180.8	2632.6
105°	4815.5	4779.6	4636.1	4492.5	4636.1	4779.6	4815.5	4267.6	3537.1	3171.8	2640.9
107.5°	5284.3	5293.0	5327.7	5362.4	5327.7	5293.0	5284.3	4520.0	3501.0	2991.5	2523.3
110°	5404.5	5441.9	5591.5	5741.1	5591.5	5441.9	5404.5	4550.1	3410.9	2841.3	2419.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	5327.9	5385.3	5615.1	5844.8	5615.1	5385.3	5327.9	4453.4	3287.5	2704.5	2328.2
115°	5068.0	5147.6	5466.1	5784.7	5466.1	5147.6	5068.0	4225.5	3102.4	2540.8	2223.9
117.5°	4708.9	4797.2	5150.4	5503.7	5150.4	4797.2	4708.9	3948.6	2934.9	2428.0	2158.5
120°	4466.9	4552.8	4896.0	5239.3	4896.0	4552.8	4466.9	3772.3	2846.1	2383.0	2136.5
122.5°	4225.1	4309.7	4648.3	4986.9	4648.3	4309.7	4225.1	3599.5	2765.5	2348.5	2125.1
125°	3905.0	3983.0	4294.8	4606.7	4294.8	3983.0	3905.0	3373.6	2665.2	2310.9	2115.6
127.5°	3648.1	3713.9	3977.0	4240.1	3977.0	3713.9	3648.1	3191.8	2583.5	2279.3	2110.0
130°	3485.8	3546.6	3789.7	4032.7	3789.7	3546.6	3485.8	3079.7	2538.0	2267.3	2113.3
132.5°	3347.6	3402.1	3619.7	3837.4	3619.7	3402.1	3347.6	2984.0	2499.2	2256.8	2115.5
135°	3152.3	3199.2	3386.8	3574.5	3386.8	3199.2	3152.3	2847.8	2441.8	2238.8	2113.6
137.5°	3008.0	3046.4	3200.0	3353.6	3200.0	3046.4	3008.0	2750.6	2407.3	2235.7	2126.5
140°	2892.3	2928.2	3071.8	3215.4	3071.8	2928.2	2892.3	2670.0	2373.4	2225.2	2128.7
142.5°	2811.2	2842.1	2965.6	3089.1	2965.6	2842.1	2811.2	2615.9	2355.4	2225.2	2136.4
145°	2689.5	2712.9	2806.4	2899.9	2806.4	2712.9	2689.5	2529.7	2316.7	2210.2	2136.4
147.5°	2587.3	2606.7	2684.2	2761.6	2684.2	2606.7	2587.3	2461.6	2294.0	2210.2	2151.1
150°	2528.7	2544.4	2607.2	2670.0	2607.2	2544.4	2528.7	2422.6	2281.0	2210.2	2158.8
152.5°	2482.2	2494.0	2541.4	2588.8	2541.4	2494.0	2482.2	2391.5	2270.6	2210.2	2163.8
155°	2426.6	2434.5	2465.8	2497.2	2465.8	2434.5	2426.6	2354.5	2258.3	2210.2	2174.8
157.5°	2378.5	2384.0	2406.0	2428.0	2406.0	2384.0	2378.5	2322.4	2247.6	2210.2	2185.8
160°	2354.4	2357.6	2370.3	2383.0	2370.3	2357.6	2354.4	2306.3	2242.2	2210.2	2190.8
162.5°	2331.9	2334.9	2346.9	2359.0	2346.9	2334.9	2331.9	2291.4	2237.2	2210.2	2196.1
165°	2297.3	2300.5	2313.2	2325.9	2313.2	2300.5	2297.3	2268.2	2229.5	2210.2	2203.8
167.5°	2282.3	2283.7	2289.0	2294.3	2289.0	2283.7	2282.3	2263.3	2237.9	2225.2	2219.9
170°	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2282.3	2263.3	2237.9	2225.2	2224.9
172.5°	2270.3	2269.1	2264.5	2259.8	2264.5	2269.1	2270.3	2255.3	2235.2	2225.2	2225.2
175°	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2253.8	2244.2	2231.5	2225.2	2228.2
177.5°	2250.7	2249.4	2244.1	2238.8	2244.1	2249.4	2250.7	2243.3	2233.2	2228.2	2230.6
180°	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8	2238.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4308.9	4308.9	4308.9	4308.9	4308.9
2.5°	4255.9	4276.3	4288.5	4304.8	4345.6
5°	4092.8	4170.3	4194.7	4255.9	4329.2
7.5°	3734.1	3970.5	4035.7	4182.5	4296.6
10°	3387.6	3624.0	3738.1	4084.7	4255.9
12.5°	3212.3	3350.9	3428.3	3913.4	4198.8
15°	3102.2	3200.0	3257.1	3685.1	4133.6
17.5°	3016.6	3085.9	3126.7	3460.9	4043.9
20°	2963.6	2996.2	3032.9	3297.9	3942.0
22.5°	2926.9	2906.5	2935.1	3183.7	3803.4
25°	2902.4	2825.0	2857.6	3094.0	3640.3
27.5°	2922.8	2751.6	2763.8	3012.5	3469.1
30°	2926.9	2661.9	2666.0	2926.9	3277.5
32.5°	2898.4	2568.2	2572.2	2820.9	3061.4
35°	2829.1	2458.1	2454.0	2698.6	2767.9
37.5°	2735.3	2339.9	2339.9	2564.1	2445.9
40°	2621.2	2221.7	2233.9	2388.8	2160.6
42.5°	2482.6	2095.3	2111.6	2156.5	1948.6
45°	2331.8	1973.1	1985.3	1822.2	1785.5
47.5°	2164.6	1846.7	1850.8	1512.4	1732.6
50°	1964.9	1716.2	1699.9	1296.4	1728.5
52.5°	1789.6	1573.6	1524.6	1174.1	1569.5
55°	1618.4	1422.7	1316.7	1080.3	1455.3
57.5°	1467.6	1227.1	1125.1	970.2	1430.9
60°	1329.0	1035.5	958.0	852.0	1312.7
62.5°	1214.8	892.8	876.5	770.5	1190.4
65°	1092.5	794.9	790.9	701.2	1011.0
67.5°	974.3	729.7	725.6	635.9	770.5
70°	847.9	660.4	652.3	566.6	570.7
72.5°	717.5	583.0	574.8	509.6	472.9
75°	587.0	493.3	489.2	444.3	383.2
77.5°	460.7	391.4	399.5	358.7	281.3
80°	330.2	285.4	293.5	256.8	212.0
82.5°	220.1	187.5	195.7	163.1	142.7
85°	122.3	106.0	110.1	85.6	65.2
87.5°	57.1	48.9	48.9	32.6	20.4
90°	66.1	42.1	39.1	27.1	15.0
92.5°	407.7	290.0	264.4	162.2	60.1
95°	1003.2	564.9	518.2	331.2	144.2
97.5°	1351.3	620.6	579.3	414.3	249.4
100°	1478.0	667.1	629.7	480.1	330.5
102.5°	1536.1	713.7	678.8	539.2	399.7
105°	1579.2	782.8	753.3	635.1	516.9
107.5°	1587.1	885.0	857.4	747.3	637.1
110°	1575.2	942.1	917.2	817.7	718.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1575.6	1011.2	987.5	892.7	797.9
115°	1590.2	1114.9	1093.0	1005.5	918.1
117.5°	1619.7	1215.5	1195.7	1116.2	1036.8
120°	1643.7	1274.1	1255.4	1180.7	1105.8
122.5°	1678.4	1343.3	1324.4	1248.9	1173.4
125°	1724.9	1431.9	1414.7	1345.9	1277.2
127.5°	1771.4	1517.5	1500.2	1430.7	1361.2
130°	1805.5	1574.6	1555.9	1481.1	1406.4
132.5°	1833.0	1621.2	1602.5	1527.7	1452.9
135°	1863.1	1675.3	1658.3	1590.1	1522.0
137.5°	1908.2	1744.4	1727.6	1660.1	1592.7
140°	1935.7	1791.0	1775.5	1713.4	1651.3
142.5°	1958.8	1825.5	1811.2	1753.8	1696.3
145°	1988.8	1878.1	1865.6	1815.6	1765.5
147.5°	2032.9	1944.2	1932.0	1883.3	1834.5
150°	2055.9	1978.8	1967.8	1923.7	1879.7
152.5°	2070.9	2001.3	1993.0	1959.6	1926.2
155°	2104.0	2050.9	2044.8	2020.1	1995.4
157.5°	2137.0	2100.5	2094.5	2070.5	2046.4
160°	2152.1	2123.1	2118.4	2099.7	2081.0
162.5°	2168.1	2147.1	2143.5	2129.6	2115.5
165°	2191.1	2181.7	2178.5	2165.8	2153.1
167.5°	2209.2	2201.2	2199.7	2193.7	2187.7
170°	2224.2	2223.7	2222.2	2216.2	2210.2
172.5°	2225.2	2225.2	2224.9	2223.5	2222.2
175°	2234.3	2238.8	2238.8	2238.8	2238.8
177.5°	2235.2	2238.8	2238.8	2238.8	2238.8
180°	2238.8	2238.8	2238.8	2238.8	2238.8



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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	13.18	13.99	14.19	15.01	16.37	16.03	16.84	17.04	17.86	19.22
	3H	13.65	14.37	14.67	15.40	16.78	17.38	18.10	18.40	19.13	20.51
	4H	13.84	14.52	14.87	15.56	16.95	17.82	18.51	18.86	19.54	20.93
	6H	13.96	14.59	15.00	15.62	17.02	18.11	18.74	19.16	19.78	21.18
	8H	13.96	14.56	15.01	15.61	17.00	18.19	18.79	19.24	19.84	21.24
	12H	13.93	14.49	14.98	15.54	16.96	18.23	18.80	19.28	19.84	21.26
4H	2H	14.21	14.89	15.25	15.93	17.31	16.43	17.12	17.47	18.15	19.54
	3H	15.23	15.80	16.28	16.86	18.26	17.94	18.51	18.99	19.57	20.97
	4H	15.51	16.03	16.56	17.08	18.50	18.47	18.99	19.52	20.04	21.47
	6H	15.63	16.08	16.69	17.15	18.57	18.84	19.29	19.90	20.36	21.78
	8H	15.63	16.05	16.70	17.12	18.55	18.95	19.36	20.01	20.43	21.87
	12H	15.60	15.97	16.68	17.06	18.50	19.00	19.38	20.09	20.46	21.90
8H	4H	15.96	16.38	17.02	17.44	18.88	18.59	19.01	19.65	20.07	21.51
	6H	16.22	16.56	17.31	17.67	19.10	19.03	19.37	20.12	20.48	21.92
	8H	16.26	16.56	17.36	17.66	19.11	19.18	19.49	20.28	20.58	22.03
	12H	16.24	16.51	17.34	17.60	19.09	19.28	19.55	20.38	20.64	22.13
12H	4H	15.96	16.34	17.05	17.42	18.86	18.55	18.93	19.63	20.01	21.45
	6H	16.28	16.58	17.37	17.68	19.13	19.03	19.33	20.12	20.42	21.87
	8H	16.34	16.61	17.44	17.70	19.19	19.19	19.45	20.29	20.54	22.03