

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: P936012

Luminaire Tested: SQ4-FA-150U-100D-830-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

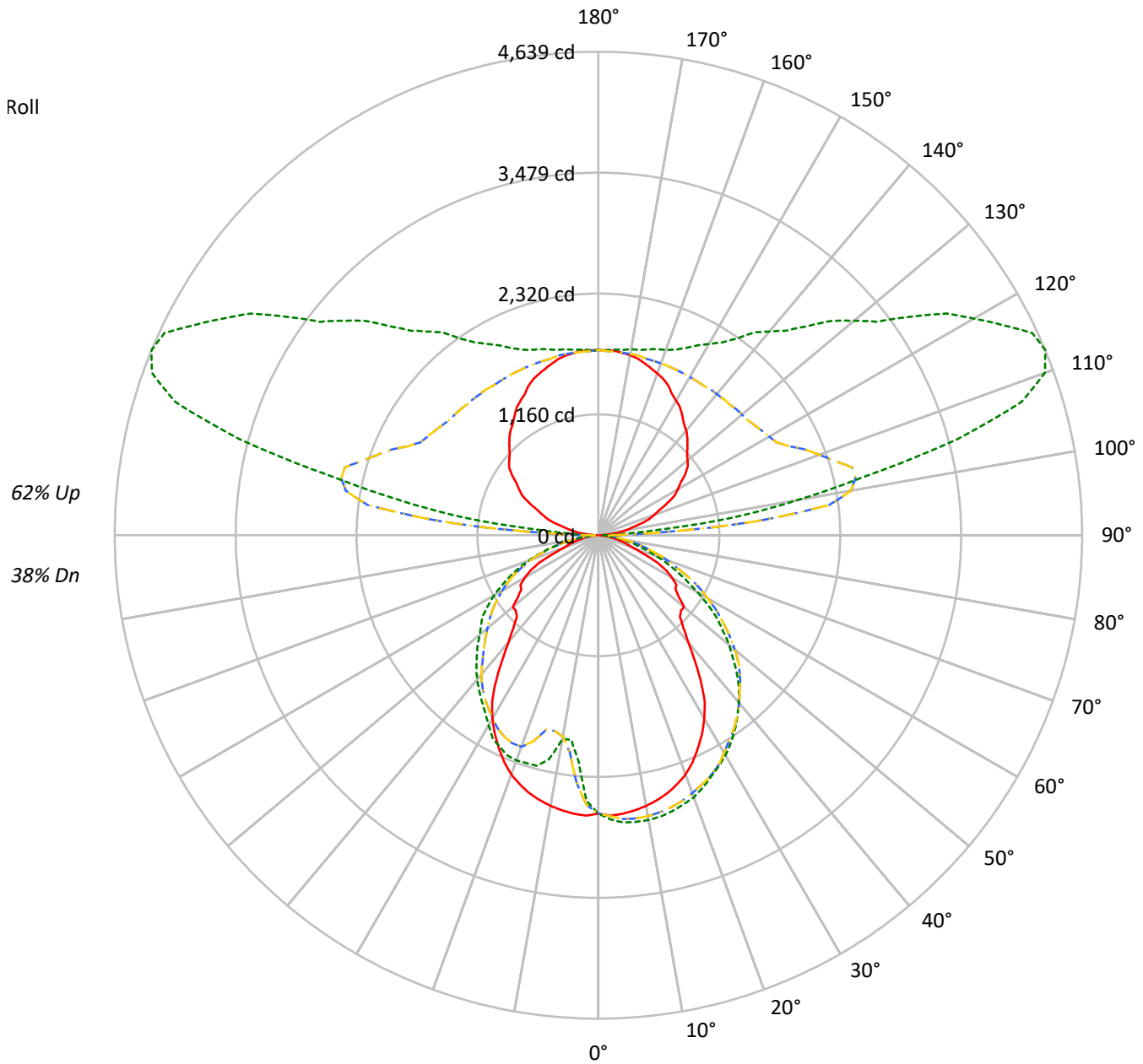
Test Method: LM-79-2019  
Report Number: P936012  
REPORT IS A COMBINATION OF REPORTS P933780 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18448.9 lumens  
Efficiency: N/A  
Efficacy: 127.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 144.8  
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27				27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19				19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10				10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9				9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	12389	12389	12389	12389
5°	12481	12506	12481	9834
10°	12398	12318	12398	8807
15°	12263	12052	12263	10064
20°	12007	11736	12007	10085
25°	11482	11274	11482	9871
30°	10803	10892	10803	9402
35°	9631	10408	9631	8886
40°	8025	9837	8025	8497
45°	7171	9170	7171	8048
50°	7618	8374	7618	7599
55°	7167	7517	7167	7339
60°	7389	6384	7389	6722
65°	6698	5277	6698	5899
70°	4637	4206	4637	4944
75°	4068	3109	4068	3723
80°	3278	2055	3278	2238
85°	1882	1088	1882	924

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10990 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.0	1.3
10°-20°	684.4	3.7
20°-30°	1057.9	5.7
30°-40°	1262.9	6.8
40°-50°	1270.3	6.9
50°-60°	1105.3	6.0
60°-70°	783.7	4.2
70°-80°	414.6	2.2
80°-90°	110.0	0.6
90°-100°	866.1	4.7
100°-110°	2277.1	12.3
110°-120°	2361.1	12.8
120°-130°	1893.9	10.3
130°-140°	1486.0	8.1
140°-150°	1140.6	6.2
150°-160°	821.4	4.5
160°-170°	502.6	2.7
170°-180°	169.8	0.9
0°-30°	1983.3	10.8
0°-40°	3246.2	17.6
0°-60°	5621.8	30.5
0°-90°	6930.1	37.6
90°-120°	5504.4	29.8
90°-150°	10024.9	54.3
90°-180°	11519.0	62.4
0°-180°	18448.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2670	2670	2670	2670	2670	
5°	2683	2766	2683	2175	2683	255
15°	2562	2741	2562	2289	2562	721
25°	2256	2556	2256	2238	2256	1036
35°	1715	2281	1715	1948	1715	1061
45°	1106	1880	1106	1650	1106	886
55°	902	1387	902	1354	902	829
65°	626	836	626	935	626	599
75°	238	397	238	475	238	250
85°	40	101	40	86	40	55
90°	12	45	12	45	12	12
95°	114	524	114	524	114	127
105°	410	3566	410	3566	410	435
115°	729	4591	729	4591	729	720
125°	1014	3656	1014	3656	1014	900
135°	1208	2837	1208	2837	1208	935
145°	1401	2302	1401	2302	1401	878
155°	1584	1982	1584	1982	1584	728
165°	1709	1846	1709	1846	1709	482
175°	1777	1789	1777	1789	1777	169
180°	1777	1777	1777	1777	1777	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2
2.5°	2693.0	2693.0	2708.1	2713.1	2713.1	2705.6	2698.0	2705.6	2728.3	2735.9	2733.4
5°	2682.8	2703.0	2730.8	2735.9	2740.9	2738.4	2733.4	2738.4	2763.7	2768.8	2771.3
7.5°	2662.7	2700.5	2735.9	2743.4	2751.1	2743.4	2740.9	2746.0	2771.3	2776.3	2776.3
10°	2637.3	2690.4	2730.8	2735.9	2743.4	2735.9	2735.9	2746.0	2771.3	2776.3	2778.8
12.5°	2601.9	2675.3	2713.1	2718.2	2728.3	2725.7	2723.3	2733.4	2758.6	2763.7	2763.7
15°	2561.6	2647.5	2682.8	2687.9	2705.6	2700.5	2700.5	2710.6	2738.4	2746.0	2743.4
17.5°	2506.0	2612.1	2652.5	2660.1	2672.7	2670.2	2672.7	2682.8	2708.1	2713.1	2715.7
20°	2442.9	2564.1	2612.1	2619.6	2632.3	2632.3	2632.3	2645.0	2670.2	2680.3	2680.3
22.5°	2356.9	2513.6	2564.1	2569.2	2584.3	2584.3	2589.3	2607.0	2629.8	2632.3	2632.3
25°	2255.9	2458.0	2500.9	2516.1	2531.3	2538.8	2546.4	2556.5	2564.1	2561.6	2564.1
27.5°	2149.8	2387.2	2442.9	2452.9	2473.2	2480.7	2490.9	2493.3	2495.9	2503.5	2498.4
30°	2031.0	2288.8	2372.1	2382.3	2415.0	2420.1	2410.0	2415.0	2427.7	2432.7	2437.8
32.5°	1897.2	2142.2	2298.9	2321.6	2351.9	2336.8	2334.2	2341.8	2362.0	2362.0	2367.1
35°	1715.3	2028.5	2230.6	2250.8	2273.6	2255.9	2266.0	2268.5	2281.2	2288.8	2286.2
37.5°	1515.7	1930.0	2159.9	2175.1	2192.8	2170.0	2185.1	2192.8	2202.8	2197.8	2197.8
40°	1338.9	1776.0	2076.5	2086.7	2101.8	2084.1	2099.3	2104.3	2109.4	2104.3	2101.8
42.5°	1207.5	1606.7	1988.1	2000.7	1990.7	2003.3	2008.4	2018.4	2010.9	2000.7	2000.7
45°	1106.5	1561.1	1892.1	1907.3	1892.1	1912.4	1919.9	1919.9	1897.2	1892.1	1889.6
47.5°	1073.7	1470.2	1796.1	1796.1	1788.6	1813.8	1826.4	1808.8	1786.0	1778.4	1778.4
50°	1071.1	1369.2	1664.8	1654.6	1690.0	1720.3	1707.7	1690.0	1672.3	1644.5	1644.5
52.5°	972.6	1245.4	1495.5	1533.4	1589.0	1606.7	1586.5	1568.8	1538.5	1525.9	1515.7
55°	901.9	1116.6	1341.5	1417.2	1475.3	1498.1	1460.1	1442.5	1397.0	1389.5	1384.4
57.5°	886.7	929.6	1200.0	1296.0	1366.7	1364.1	1341.5	1308.6	1270.7	1263.1	1260.6
60°	813.5	672.0	1048.3	1162.0	1235.3	1227.7	1207.5	1177.2	1141.8	1136.8	1131.7
62.5°	737.6	487.6	876.6	1005.4	1109.0	1106.5	1088.8	1043.3	1018.0	1005.4	995.3
65°	626.5	409.3	624.0	836.2	985.3	990.2	952.4	919.6	891.8	876.6	874.1
67.5°	477.4	333.5	421.9	697.2	866.5	861.5	813.5	798.3	762.9	755.3	740.1
70°	353.6	222.3	293.0	565.9	750.3	737.6	699.8	682.1	649.2	631.5	621.4
72.5°	293.0	179.3	214.7	439.6	631.5	616.4	583.5	563.4	535.6	520.4	510.3
75°	237.5	189.5	164.2	325.9	512.8	502.8	472.4	452.2	429.4	409.3	411.7
77.5°	174.3	176.9	131.4	240.0	406.7	391.6	373.9	348.7	338.5	318.3	318.3
80°	131.4	138.9	98.6	164.2	293.0	293.0	277.9	260.2	242.5	232.4	232.4
82.5°	88.4	88.4	73.2	103.5	199.6	192.0	181.9	176.9	166.7	161.7	161.7
85°	40.4	50.5	45.5	63.2	108.6	113.7	113.7	108.6	106.1	101.0	103.5
87.5°	12.6	22.8	27.8	35.4	55.5	58.1	60.6	60.6	60.6	63.2	63.2
90°	12.0	21.5	31.0	33.4	52.5	77.9	90.6	80.6	60.4	45.3	45.3
92.5°	47.7	128.8	209.9	230.2	323.6	448.2	510.4	447.3	321.2	226.6	217.6
95°	114.5	262.9	411.3	448.4	796.2	1259.9	1491.8	1331.2	1010.1	769.2	741.9
97.5°	198.0	328.9	459.8	492.5	1072.5	1845.8	2232.5	2130.9	1928.0	1775.7	1723.8
100°	262.3	381.1	499.8	529.5	1173.1	2031.1	2460.2	2467.6	2482.4	2493.5	2431.7
102.5°	317.2	428.0	538.7	566.4	1219.2	2089.4	2524.6	2654.0	2912.5	3106.5	3053.6
105°	410.2	504.0	597.9	621.3	1253.3	2096.0	2517.4	2807.4	3387.2	3822.1	3793.6
107.5°	505.6	593.1	680.5	702.4	1259.7	2002.8	2374.3	2778.7	3587.6	4194.2	4201.0
110°	570.1	649.0	728.0	747.7	1250.2	1920.1	2255.1	2707.2	3611.4	4289.6	4319.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	633.3	708.5	783.7	802.6	1250.5	1847.9	2146.5	2609.2	3534.6	4228.7	4274.3
115°	728.7	798.1	867.5	884.9	1262.1	1765.1	2016.6	2462.3	3353.7	4022.4	4085.6
117.5°	822.8	885.9	949.0	964.8	1285.5	1713.2	1927.1	2329.4	3134.0	3737.4	3807.5
120°	877.7	937.1	996.4	1011.3	1304.7	1695.8	1891.4	2258.9	2994.1	3545.4	3613.5
122.5°	931.3	991.3	1051.1	1066.1	1332.1	1686.7	1863.9	2194.9	2856.9	3353.4	3420.6
125°	1013.6	1068.2	1122.8	1136.5	1369.0	1679.0	1834.1	2115.2	2677.6	3099.4	3161.2
127.5°	1080.5	1135.5	1190.7	1204.5	1406.0	1674.7	1809.0	2050.4	2533.3	2895.4	2947.6
130°	1116.2	1175.6	1235.0	1249.8	1433.0	1677.3	1799.5	2014.4	2444.3	2766.7	2814.9
132.5°	1153.2	1212.6	1272.0	1286.8	1454.9	1679.1	1791.2	1983.5	2368.3	2656.9	2700.1
135°	1208.0	1262.1	1316.2	1329.7	1478.7	1677.5	1776.8	1938.0	2260.3	2501.9	2539.1
137.5°	1264.1	1317.7	1371.1	1384.5	1514.5	1687.8	1774.5	1910.8	2183.1	2387.4	2417.9
140°	1310.6	1359.9	1409.1	1421.5	1536.4	1689.5	1766.1	1883.8	2119.2	2295.6	2324.1
142.5°	1346.3	1391.9	1437.5	1448.9	1554.6	1695.7	1766.1	1869.5	2076.1	2231.2	2255.7
145°	1401.2	1441.0	1480.7	1490.7	1578.5	1695.7	1754.2	1838.7	2007.8	2134.7	2153.2
147.5°	1456.1	1494.8	1533.5	1543.2	1613.5	1707.3	1754.2	1820.7	1953.7	2053.5	2068.9
150°	1491.8	1526.8	1561.8	1570.5	1631.7	1713.3	1754.2	1810.4	1922.7	2007.0	2019.5
152.5°	1528.8	1555.3	1581.9	1588.5	1643.7	1717.4	1754.2	1802.2	1898.0	1970.0	1979.4
155°	1583.7	1603.3	1622.9	1627.8	1669.9	1726.1	1754.2	1792.3	1868.7	1926.0	1932.2
157.5°	1624.2	1643.4	1662.4	1667.2	1696.1	1734.9	1754.2	1783.9	1843.3	1887.8	1892.2
160°	1651.7	1666.5	1681.3	1685.0	1708.1	1738.8	1754.2	1779.6	1830.5	1868.7	1871.2
162.5°	1679.1	1690.2	1701.4	1704.2	1720.8	1743.1	1754.2	1775.7	1818.6	1850.8	1853.2
165°	1708.8	1718.9	1729.0	1731.5	1739.1	1749.1	1754.2	1769.6	1800.3	1823.4	1825.9
167.5°	1736.3	1741.1	1745.8	1747.1	1753.4	1761.9	1766.1	1776.2	1796.3	1811.4	1812.5
170°	1754.2	1758.9	1763.7	1765.0	1765.3	1765.8	1766.1	1776.2	1796.3	1811.4	1811.4
172.5°	1763.7	1764.8	1765.8	1766.1	1766.1	1766.1	1766.1	1774.0	1789.9	1801.9	1800.9
175°	1776.8	1776.8	1776.8	1776.8	1773.3	1768.5	1766.1	1771.2	1781.2	1788.8	1788.8
177.5°	1776.8	1776.8	1776.8	1776.8	1774.0	1770.3	1768.5	1772.5	1780.5	1786.4	1785.3
180°	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2
2.5°	2738.4	2730.8	2738.4	2733.4	2735.9	2728.3	2705.6	2698.0	2705.6	2713.1	2713.1
5°	2771.3	2766.2	2771.3	2771.3	2768.8	2763.7	2738.4	2733.4	2738.4	2740.9	2735.9
7.5°	2781.4	2773.7	2781.4	2776.3	2776.3	2771.3	2746.0	2740.9	2743.4	2751.1	2743.4
10°	2781.4	2773.7	2781.4	2778.8	2776.3	2771.3	2746.0	2735.9	2735.9	2743.4	2735.9
12.5°	2768.8	2763.7	2768.8	2763.7	2763.7	2758.6	2733.4	2723.3	2725.7	2728.3	2718.2
15°	2748.5	2740.9	2748.5	2743.4	2746.0	2738.4	2710.6	2700.5	2700.5	2705.6	2687.9
17.5°	2718.2	2708.1	2718.2	2715.7	2713.1	2708.1	2682.8	2672.7	2670.2	2672.7	2660.1
20°	2682.8	2675.3	2682.8	2680.3	2680.3	2670.2	2645.0	2632.3	2632.3	2632.3	2619.6
22.5°	2627.3	2619.6	2627.3	2632.3	2632.3	2629.8	2607.0	2589.3	2584.3	2584.3	2569.2
25°	2564.1	2556.5	2564.1	2564.1	2561.6	2564.1	2556.5	2546.4	2538.8	2531.3	2516.1
27.5°	2503.5	2498.4	2503.5	2498.4	2503.5	2495.9	2493.3	2490.9	2480.7	2473.2	2452.9
30°	2442.9	2437.8	2442.9	2437.8	2432.7	2427.7	2415.0	2410.0	2420.1	2415.0	2382.3
32.5°	2367.1	2362.0	2367.1	2367.1	2362.0	2362.0	2341.8	2334.2	2336.8	2351.9	2321.6
35°	2288.8	2281.2	2288.8	2286.2	2288.8	2281.2	2268.5	2266.0	2255.9	2273.6	2250.8
37.5°	2197.8	2190.2	2197.8	2197.8	2197.8	2202.8	2192.8	2185.1	2170.0	2192.8	2175.1
40°	2104.3	2094.2	2104.3	2101.8	2104.3	2109.4	2104.3	2099.3	2084.1	2101.8	2086.7
42.5°	1998.2	1995.7	1998.2	2000.7	2000.7	2010.9	2018.4	2008.4	2003.3	1990.7	2000.7
45°	1884.6	1879.5	1884.6	1889.6	1892.1	1897.2	1919.9	1919.9	1912.4	1892.1	1907.3
47.5°	1763.2	1750.6	1763.2	1778.4	1778.4	1786.0	1808.8	1826.4	1813.8	1788.6	1796.1
50°	1634.5	1637.0	1634.5	1644.5	1644.5	1672.3	1690.0	1707.7	1720.3	1690.0	1654.6
52.5°	1508.2	1505.6	1508.2	1515.7	1525.9	1538.5	1568.8	1586.5	1606.7	1589.0	1533.4
55°	1381.8	1386.9	1381.8	1384.4	1389.5	1397.0	1442.5	1460.1	1498.1	1475.3	1417.2
57.5°	1255.5	1248.0	1255.5	1260.6	1263.1	1270.7	1308.6	1341.5	1364.1	1366.7	1296.0
60°	1109.0	1098.9	1109.0	1131.7	1136.8	1141.8	1177.2	1207.5	1227.7	1235.3	1162.0
62.5°	980.2	962.5	980.2	995.3	1005.4	1018.0	1043.3	1088.8	1106.5	1109.0	1005.4
65°	843.8	836.2	843.8	874.1	876.6	891.8	919.6	952.4	990.2	985.3	836.2
67.5°	720.0	720.0	720.0	740.1	755.3	762.9	798.3	813.5	861.5	866.5	697.2
70°	606.3	603.8	606.3	621.4	631.5	649.2	682.1	699.8	737.6	750.3	565.9
72.5°	497.7	495.1	497.7	510.3	520.4	535.6	563.4	583.5	616.4	631.5	439.6
75°	401.7	396.6	401.7	411.7	409.3	429.4	452.2	472.4	502.8	512.8	325.9
77.5°	308.2	308.2	308.2	318.3	318.3	338.5	348.7	373.9	391.6	406.7	240.0
80°	229.9	227.3	229.9	232.4	232.4	242.5	260.2	277.9	293.0	293.0	164.2
82.5°	161.7	156.6	161.7	161.7	161.7	166.7	176.9	181.9	192.0	199.6	103.5
85°	101.0	101.0	101.0	103.5	101.0	106.1	108.6	113.7	113.7	108.6	63.2
87.5°	65.7	63.2	65.7	63.2	63.2	60.6	60.6	60.6	58.1	55.5	35.4
90°	45.3	45.3	45.3	45.3	45.3	60.4	80.6	90.6	77.9	52.5	33.4
92.5°	181.5	145.5	181.5	217.6	226.6	321.2	447.3	510.4	448.2	323.6	230.2
95°	632.7	523.5	632.7	741.9	769.2	1010.1	1331.2	1491.8	1259.9	796.2	448.4
97.5°	1515.9	1308.2	1515.9	1723.8	1775.7	1928.0	2130.9	2232.5	1845.8	1072.5	492.5
100°	2184.2	1936.7	2184.2	2431.7	2493.5	2482.4	2467.6	2460.2	2031.1	1173.1	529.5
102.5°	2841.5	2629.6	2841.5	3053.6	3106.5	2912.5	2654.0	2524.6	2089.4	1219.2	566.4
105°	3679.6	3565.7	3679.6	3793.6	3822.1	3387.2	2807.4	2517.4	2096.0	1253.3	621.3
107.5°	4228.6	4256.1	4228.6	4201.0	4194.2	3587.6	2778.7	2374.3	2002.8	1259.7	702.4
110°	4437.9	4556.7	4437.9	4319.2	4289.6	3611.4	2707.2	2255.1	1920.1	1250.2	747.7





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4456.6	4638.9	4456.6	4274.3	4228.7	3534.6	2609.2	2146.5	1847.9	1250.5	802.6
115°	4338.4	4591.2	4338.4	4085.6	4022.4	3353.7	2462.3	2016.6	1765.1	1262.1	884.9
117.5°	4087.9	4368.3	4087.9	3807.5	3737.4	3134.0	2329.4	1927.1	1713.2	1285.5	964.8
120°	3885.9	4158.3	3885.9	3613.5	3545.4	2994.1	2258.9	1891.4	1695.8	1304.7	1011.3
122.5°	3689.3	3958.0	3689.3	3420.6	3353.4	2856.9	2194.9	1863.9	1686.7	1332.1	1066.1
125°	3408.8	3656.3	3408.8	3161.2	3099.4	2677.6	2115.2	1834.1	1679.0	1369.0	1136.5
127.5°	3156.5	3365.3	3156.5	2947.6	2895.4	2533.3	2050.4	1809.0	1674.7	1406.0	1204.5
130°	3007.9	3200.8	3007.9	2814.9	2766.7	2444.3	2014.4	1799.5	1677.3	1433.0	1249.8
132.5°	2872.9	3045.7	2872.9	2700.1	2656.9	2368.3	1983.5	1791.2	1679.1	1454.9	1286.8
135°	2688.1	2837.0	2688.1	2539.1	2501.9	2260.3	1938.0	1776.8	1677.5	1478.7	1329.7
137.5°	2539.8	2661.7	2539.8	2417.9	2387.4	2183.1	1910.8	1774.5	1687.8	1514.5	1384.5
140°	2438.1	2552.0	2438.1	2324.1	2295.6	2119.2	1883.8	1766.1	1689.5	1536.4	1421.5
142.5°	2353.8	2451.9	2353.8	2255.7	2231.2	2076.1	1869.5	1766.1	1695.7	1554.6	1448.9
145°	2227.4	2301.6	2227.4	2153.2	2134.7	2007.8	1838.7	1754.2	1695.7	1578.5	1490.7
147.5°	2130.4	2191.8	2130.4	2068.9	2053.5	1953.7	1820.7	1754.2	1707.3	1613.5	1543.2
150°	2069.4	2119.2	2069.4	2019.5	2007.0	1922.7	1810.4	1754.2	1713.3	1631.7	1570.5
152.5°	2017.1	2054.7	2017.1	1979.4	1970.0	1898.0	1802.2	1754.2	1717.4	1643.7	1588.5
155°	1957.1	1982.0	1957.1	1932.2	1926.0	1868.7	1792.3	1754.2	1726.1	1669.9	1627.8
157.5°	1909.6	1927.1	1909.6	1892.2	1887.8	1843.3	1783.9	1754.2	1734.9	1696.1	1667.2
160°	1881.3	1891.4	1881.3	1871.2	1868.7	1830.5	1779.6	1754.2	1738.8	1708.1	1685.0
162.5°	1862.7	1872.2	1862.7	1853.2	1850.8	1818.6	1775.7	1754.2	1743.1	1720.8	1704.2
165°	1836.0	1846.0	1836.0	1825.9	1823.4	1800.3	1769.6	1754.2	1749.1	1739.1	1731.5
167.5°	1816.8	1821.0	1816.8	1812.5	1811.4	1796.3	1776.2	1766.1	1761.9	1753.4	1747.1
170°	1811.4	1811.4	1811.4	1811.4	1811.4	1796.3	1776.2	1766.1	1765.8	1765.3	1765.0
172.5°	1797.3	1793.6	1797.3	1800.9	1801.9	1789.9	1774.0	1766.1	1766.1	1766.1	1766.1
175°	1788.8	1788.8	1788.8	1788.8	1788.8	1781.2	1771.2	1766.1	1768.5	1773.3	1776.8
177.5°	1781.0	1776.8	1781.0	1785.3	1786.4	1780.5	1772.5	1768.5	1770.3	1774.0	1776.8
180°	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2
2.5°	2708.1	2693.0	2693.0	2667.7	2657.6	2650.0	2637.3	2599.5	2589.3	2579.3	2594.4
5°	2730.8	2703.0	2682.8	2637.3	2599.5	2584.3	2536.3	2445.4	2384.7	2339.2	2314.0
7.5°	2735.9	2700.5	2662.7	2591.9	2500.9	2460.6	2314.0	2147.3	2101.8	2061.4	2036.1
10°	2730.8	2690.4	2637.3	2531.3	2316.5	2245.8	2099.3	1990.7	1962.9	1955.3	1962.9
12.5°	2713.1	2675.3	2601.9	2425.2	2124.5	2076.5	1990.7	1927.5	1922.4	1935.0	2003.3
15°	2682.8	2647.5	2561.6	2283.7	2018.4	1983.0	1922.4	1899.7	1927.5	2015.9	2220.5
17.5°	2652.5	2612.1	2506.0	2144.8	1937.6	1912.4	1869.4	1914.9	2071.5	2190.2	2258.5
20°	2612.1	2564.1	2442.9	2043.7	1879.5	1856.7	1836.6	2041.2	2159.9	2202.8	2240.8
22.5°	2564.1	2513.6	2356.9	1973.0	1818.9	1801.2	1813.8	2111.9	2159.9	2190.2	2223.1
25°	2500.9	2458.0	2255.9	1917.4	1770.9	1750.6	1798.6	2104.3	2132.1	2139.7	2205.4
27.5°	2442.9	2387.2	2149.8	1866.9	1712.8	1705.2	1811.3	2071.5	2091.7	2099.3	2170.0
30°	2372.1	2288.8	2031.0	1813.8	1652.2	1649.6	1813.8	2031.0	2026.1	2046.2	2117.0
32.5°	2298.9	2142.2	1897.2	1748.1	1594.0	1591.5	1796.1	1970.4	1965.3	1993.2	2046.2
35°	2230.6	2028.5	1715.3	1672.3	1520.8	1523.3	1753.2	1899.7	1902.2	1927.5	1960.4
37.5°	2159.9	1930.0	1515.7	1589.0	1450.1	1450.1	1695.1	1834.0	1829.0	1836.6	1882.0
40°	2076.5	1776.0	1338.9	1480.4	1384.4	1376.7	1624.3	1763.2	1745.6	1743.1	1806.3
42.5°	1988.1	1606.7	1207.5	1336.4	1308.6	1298.4	1538.5	1677.4	1644.5	1652.2	1732.9
45°	1892.1	1561.1	1106.5	1129.2	1230.3	1222.7	1445.0	1578.8	1556.2	1576.3	1659.7
47.5°	1796.1	1470.2	1073.7	937.3	1146.9	1144.3	1341.5	1482.9	1470.2	1490.5	1578.8
50°	1664.8	1369.2	1071.1	803.3	1053.4	1063.6	1217.7	1389.5	1389.5	1407.1	1500.5
52.5°	1495.5	1245.4	972.6	727.5	944.8	975.1	1109.0	1308.6	1313.6	1331.3	1414.7
55°	1341.5	1116.6	901.9	669.5	815.9	881.6	1002.9	1225.2	1235.3	1253.0	1328.7
57.5°	1200.0	929.6	886.7	601.2	697.2	760.4	909.4	1144.3	1149.4	1164.6	1237.8
60°	1048.3	672.0	813.5	528.0	593.7	641.7	823.5	1048.3	1066.0	1076.2	1139.4
62.5°	876.6	487.6	737.6	477.4	543.1	553.2	752.8	957.4	980.2	987.7	1025.6
65°	624.0	409.3	626.5	434.5	490.0	492.6	677.0	863.9	884.2	896.8	924.5
67.5°	421.9	333.5	477.4	394.1	449.7	452.2	603.8	755.3	783.2	793.2	810.9
70°	293.0	222.3	353.6	351.1	404.2	409.3	525.4	656.8	682.1	689.7	699.8
72.5°	214.7	179.3	293.0	315.8	356.2	361.3	444.6	545.7	570.9	578.5	583.5
75°	164.2	189.5	237.5	275.3	303.1	305.6	363.8	444.6	462.3	467.4	469.9
77.5°	131.4	176.9	174.3	222.3	247.6	242.5	285.5	343.6	358.7	358.7	358.7
80°	98.6	138.9	131.4	159.2	181.9	176.9	204.6	245.0	250.1	255.2	252.6
82.5°	73.2	88.4	88.4	101.0	121.2	116.2	136.4	159.2	159.2	159.2	164.2
85°	45.5	50.5	40.4	53.1	68.2	65.7	75.8	85.8	88.4	88.4	83.4
87.5°	27.8	22.8	12.6	20.2	30.3	30.3	35.4	37.9	35.4	35.4	35.4
90°	31.0	21.5	12.0	21.5	31.0	33.4	52.5	77.9	90.6	80.6	60.4
92.5°	209.9	128.8	47.7	128.8	209.9	230.2	323.6	448.2	510.4	447.3	321.2
95°	411.3	262.9	114.5	262.9	411.3	448.4	796.2	1259.9	1491.8	1331.2	1010.1
97.5°	459.8	328.9	198.0	328.9	459.8	492.5	1072.5	1845.8	2232.5	2130.9	1928.0
100°	499.8	381.1	262.3	381.1	499.8	529.5	1173.1	2031.1	2460.2	2467.6	2482.4
102.5°	538.7	428.0	317.2	428.0	538.7	566.4	1219.2	2089.4	2524.6	2654.0	2912.5
105°	597.9	504.0	410.2	504.0	597.9	621.3	1253.3	2096.0	2517.4	2807.4	3387.2
107.5°	680.5	593.1	505.6	593.1	680.5	702.4	1259.7	2002.8	2374.3	2778.7	3587.6
110°	728.0	649.0	570.1	649.0	728.0	747.7	1250.2	1920.1	2255.1	2707.2	3611.4



TEST NUMBER: P936012

CATALOG NUMBER: SQ4-FA-150U-100D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	783.7	708.5	633.3	708.5	783.7	802.6	1250.5	1847.9	2146.5	2609.2	3534.6
115°	867.5	798.1	728.7	798.1	867.5	884.9	1262.1	1765.1	2016.6	2462.3	3353.7
117.5°	949.0	885.9	822.8	885.9	949.0	964.8	1285.5	1713.2	1927.1	2329.4	3134.0
120°	996.4	937.1	877.7	937.1	996.4	1011.3	1304.7	1695.8	1891.4	2258.9	2994.1
122.5°	1051.1	991.3	931.3	991.3	1051.1	1066.1	1332.1	1686.7	1863.9	2194.9	2856.9
125°	1122.8	1068.2	1013.6	1068.2	1122.8	1136.5	1369.0	1679.0	1834.1	2115.2	2677.6
127.5°	1190.7	1135.5	1080.5	1135.5	1190.7	1204.5	1406.0	1674.7	1809.0	2050.4	2533.3
130°	1235.0	1175.6	1116.2	1175.6	1235.0	1249.8	1433.0	1677.3	1799.5	2014.4	2444.3
132.5°	1272.0	1212.6	1153.2	1212.6	1272.0	1286.8	1454.9	1679.1	1791.2	1983.5	2368.3
135°	1316.2	1262.1	1208.0	1262.1	1316.2	1329.7	1478.7	1677.5	1776.8	1938.0	2260.3
137.5°	1371.1	1317.7	1264.1	1317.7	1371.1	1384.5	1514.5	1687.8	1774.5	1910.8	2183.1
140°	1409.1	1359.9	1310.6	1359.9	1409.1	1421.5	1536.4	1689.5	1766.1	1883.8	2119.2
142.5°	1437.5	1391.9	1346.3	1391.9	1437.5	1448.9	1554.6	1695.7	1766.1	1869.5	2076.1
145°	1480.7	1441.0	1401.2	1441.0	1480.7	1490.7	1578.5	1695.7	1754.2	1838.7	2007.8
147.5°	1533.5	1494.8	1456.1	1494.8	1533.5	1543.2	1613.5	1707.3	1754.2	1820.7	1953.7
150°	1561.8	1526.8	1491.8	1526.8	1561.8	1570.5	1631.7	1713.3	1754.2	1810.4	1922.7
152.5°	1581.9	1555.3	1528.8	1555.3	1581.9	1588.5	1643.7	1717.4	1754.2	1802.2	1898.0
155°	1622.9	1603.3	1583.7	1603.3	1622.9	1627.8	1669.9	1726.1	1754.2	1792.3	1868.7
157.5°	1662.4	1643.4	1624.2	1643.4	1662.4	1667.2	1696.1	1734.9	1754.2	1783.9	1843.3
160°	1681.3	1666.5	1651.7	1666.5	1681.3	1685.0	1708.1	1738.8	1754.2	1779.6	1830.5
162.5°	1701.4	1690.2	1679.1	1690.2	1701.4	1704.2	1720.8	1743.1	1754.2	1775.7	1818.6
165°	1729.0	1718.9	1708.8	1718.9	1729.0	1731.5	1739.1	1749.1	1754.2	1769.6	1800.3
167.5°	1745.8	1741.1	1736.3	1741.1	1745.8	1747.1	1753.4	1761.9	1766.1	1776.2	1796.3
170°	1763.7	1758.9	1754.2	1758.9	1763.7	1765.0	1765.3	1765.8	1766.1	1776.2	1796.3
172.5°	1765.8	1764.8	1763.7	1764.8	1765.8	1766.1	1766.1	1766.1	1766.1	1774.0	1789.9
175°	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1773.3	1768.5	1766.1	1771.2	1781.2
177.5°	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1774.0	1770.3	1768.5	1772.5	1780.5
180°	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8



TEST NUMBER: P936012  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2
2.5°	2576.7	2569.2	2579.3	2551.5	2579.3	2569.2	2576.7	2594.4	2579.3	2589.3	2599.5
5°	2260.9	2248.3	2207.9	2175.1	2207.9	2248.3	2260.9	2314.0	2339.2	2384.7	2445.4
7.5°	2021.0	2010.9	2000.7	1980.5	2000.7	2010.9	2021.0	2036.1	2061.4	2101.8	2147.3
10°	1967.9	1970.4	1985.6	1983.0	1985.6	1970.4	1967.9	1962.9	1955.3	1962.9	1990.7
12.5°	2104.3	2127.1	2210.5	2205.4	2210.5	2127.1	2104.3	2003.3	1935.0	1922.4	1927.5
15°	2260.9	2268.5	2286.2	2288.8	2286.2	2268.5	2260.9	2220.5	2015.9	1927.5	1899.7
17.5°	2276.1	2278.6	2291.2	2291.2	2291.2	2278.6	2276.1	2258.5	2190.2	2071.5	1914.9
20°	2263.5	2268.5	2293.8	2298.9	2293.8	2268.5	2263.5	2240.8	2202.8	2159.9	2041.2
22.5°	2258.5	2268.5	2288.8	2286.2	2288.8	2268.5	2258.5	2223.1	2190.2	2159.9	2111.9
25°	2233.1	2233.1	2235.7	2238.2	2235.7	2233.1	2233.1	2205.4	2139.7	2132.1	2104.3
27.5°	2180.2	2185.1	2200.3	2197.8	2200.3	2185.1	2180.2	2170.0	2099.3	2091.7	2071.5
30°	2132.1	2127.1	2114.4	2104.3	2114.4	2127.1	2132.1	2117.0	2046.2	2026.1	2031.0
32.5°	2051.3	2038.7	2026.1	2018.4	2026.1	2038.7	2051.3	2046.2	1993.2	1965.3	1970.4
35°	1955.3	1957.8	1955.3	1947.7	1955.3	1957.8	1955.3	1960.4	1927.5	1902.2	1899.7
37.5°	1887.0	1892.1	1889.6	1879.5	1889.6	1892.1	1887.0	1882.0	1836.6	1829.0	1834.0
40°	1816.3	1818.9	1816.3	1808.8	1816.3	1818.9	1816.3	1806.3	1743.1	1745.6	1763.2
42.5°	1748.1	1745.6	1738.0	1732.9	1738.0	1745.6	1748.1	1732.9	1652.2	1644.5	1677.4
45°	1669.8	1672.3	1657.2	1649.6	1657.2	1672.3	1669.8	1659.7	1576.3	1556.2	1578.8
47.5°	1591.5	1591.5	1578.8	1571.3	1578.8	1591.5	1591.5	1578.8	1490.5	1470.2	1482.9
50°	1508.2	1505.6	1487.9	1485.4	1487.9	1505.6	1508.2	1500.5	1407.1	1389.5	1389.5
52.5°	1412.1	1412.1	1414.7	1419.8	1414.7	1412.1	1412.1	1414.7	1331.3	1313.6	1308.6
55°	1328.7	1331.3	1349.0	1354.1	1349.0	1331.3	1328.7	1328.7	1253.0	1235.3	1225.2
57.5°	1242.9	1242.9	1255.5	1255.5	1255.5	1242.9	1242.9	1237.8	1164.6	1149.4	1144.3
60°	1144.3	1149.4	1159.5	1157.0	1159.5	1149.4	1144.3	1139.4	1076.2	1066.0	1048.3
62.5°	1040.8	1045.9	1048.3	1043.3	1048.3	1045.9	1040.8	1025.6	987.7	980.2	957.4
65°	932.2	937.3	939.7	934.7	939.7	937.3	932.2	924.5	896.8	884.2	863.9
67.5°	821.0	818.5	815.9	826.1	815.9	818.5	821.0	810.9	793.2	783.2	755.3
70°	707.3	707.3	704.8	709.8	704.8	707.3	707.3	699.8	689.7	682.1	656.8
72.5°	586.1	583.5	593.7	586.1	593.7	583.5	586.1	583.5	578.5	570.9	545.7
75°	467.4	472.4	467.4	474.9	467.4	472.4	467.4	469.9	467.4	462.3	444.6
77.5°	356.2	361.3	356.2	356.2	356.2	361.3	356.2	358.7	358.7	358.7	343.6
80°	252.6	250.1	250.1	247.6	250.1	250.1	252.6	252.6	255.2	250.1	245.0
82.5°	161.7	159.2	159.2	164.2	159.2	159.2	161.7	164.2	159.2	159.2	159.2
85°	88.4	90.9	85.8	85.8	85.8	90.9	88.4	83.4	88.4	88.4	85.8
87.5°	32.9	30.3	30.3	30.3	30.3	30.3	32.9	35.4	35.4	35.4	37.9
90°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	60.4	80.6	90.6	77.9
92.5°	226.6	217.6	181.5	145.5	181.5	217.6	226.6	321.2	447.3	510.4	448.2
95°	769.2	741.9	632.7	523.5	632.7	741.9	769.2	1010.1	1331.2	1491.8	1259.9
97.5°	1775.7	1723.8	1515.9	1308.2	1515.9	1723.8	1775.7	1928.0	2130.9	2232.5	1845.8
100°	2493.5	2431.7	2184.2	1936.7	2184.2	2431.7	2493.5	2482.4	2467.6	2460.2	2031.1
102.5°	3106.5	3053.6	2841.5	2629.6	2841.5	3053.6	3106.5	2912.5	2654.0	2524.6	2089.4
105°	3822.1	3793.6	3679.6	3565.7	3679.6	3793.6	3822.1	3387.2	2807.4	2517.4	2096.0
107.5°	4194.2	4201.0	4228.6	4256.1	4228.6	4201.0	4194.2	3587.6	2778.7	2374.3	2002.8
110°	4289.6	4319.2	4437.9	4556.7	4437.9	4319.2	4289.6	3611.4	2707.2	2255.1	1920.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4228.7	4274.3	4456.6	4638.9	4456.6	4274.3	4228.7	3534.6	2609.2	2146.5	1847.9
115°	4022.4	4085.6	4338.4	4591.2	4338.4	4085.6	4022.4	3353.7	2462.3	2016.6	1765.1
117.5°	3737.4	3807.5	4087.9	4368.3	4087.9	3807.5	3737.4	3134.0	2329.4	1927.1	1713.2
120°	3545.4	3613.5	3885.9	4158.3	3885.9	3613.5	3545.4	2994.1	2258.9	1891.4	1695.8
122.5°	3353.4	3420.6	3689.3	3958.0	3689.3	3420.6	3353.4	2856.9	2194.9	1863.9	1686.7
125°	3099.4	3161.2	3408.8	3656.3	3408.8	3161.2	3099.4	2677.6	2115.2	1834.1	1679.0
127.5°	2895.4	2947.6	3156.5	3365.3	3156.5	2947.6	2895.4	2533.3	2050.4	1809.0	1674.7
130°	2766.7	2814.9	3007.9	3200.8	3007.9	2814.9	2766.7	2444.3	2014.4	1799.5	1677.3
132.5°	2656.9	2700.1	2872.9	3045.7	2872.9	2700.1	2656.9	2368.3	1983.5	1791.2	1679.1
135°	2501.9	2539.1	2688.1	2837.0	2688.1	2539.1	2501.9	2260.3	1938.0	1776.8	1677.5
137.5°	2387.4	2417.9	2539.8	2661.7	2539.8	2417.9	2387.4	2183.1	1910.8	1774.5	1687.8
140°	2295.6	2324.1	2438.1	2552.0	2438.1	2324.1	2295.6	2119.2	1883.8	1766.1	1689.5
142.5°	2231.2	2255.7	2353.8	2451.9	2353.8	2255.7	2231.2	2076.1	1869.5	1766.1	1695.7
145°	2134.7	2153.2	2227.4	2301.6	2227.4	2153.2	2134.7	2007.8	1838.7	1754.2	1695.7
147.5°	2053.5	2068.9	2130.4	2191.8	2130.4	2068.9	2053.5	1953.7	1820.7	1754.2	1707.3
150°	2007.0	2019.5	2069.4	2119.2	2069.4	2019.5	2007.0	1922.7	1810.4	1754.2	1713.3
152.5°	1970.0	1979.4	2017.1	2054.7	2017.1	1979.4	1970.0	1898.0	1802.2	1754.2	1717.4
155°	1926.0	1932.2	1957.1	1982.0	1957.1	1932.2	1926.0	1868.7	1792.3	1754.2	1726.1
157.5°	1887.8	1892.2	1909.6	1927.1	1909.6	1892.2	1887.8	1843.3	1783.9	1754.2	1734.9
160°	1868.7	1871.2	1881.3	1891.4	1881.3	1871.2	1868.7	1830.5	1779.6	1754.2	1738.8
162.5°	1850.8	1853.2	1862.7	1872.2	1862.7	1853.2	1850.8	1818.6	1775.7	1754.2	1743.1
165°	1823.4	1825.9	1836.0	1846.0	1836.0	1825.9	1823.4	1800.3	1769.6	1754.2	1749.1
167.5°	1811.4	1812.5	1816.8	1821.0	1816.8	1812.5	1811.4	1796.3	1776.2	1766.1	1761.9
170°	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1796.3	1776.2	1766.1	1765.8
172.5°	1801.9	1800.9	1797.3	1793.6	1797.3	1800.9	1801.9	1789.9	1774.0	1766.1	1766.1
175°	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1781.2	1771.2	1766.1	1768.5
177.5°	1786.4	1785.3	1781.0	1776.8	1781.0	1785.3	1786.4	1780.5	1772.5	1768.5	1770.3
180°	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2670.2	2670.2	2670.2	2670.2	2670.2
2.5°	2637.3	2650.0	2657.6	2667.7	2693.0
5°	2536.3	2584.3	2599.5	2637.3	2682.8
7.5°	2314.0	2460.6	2500.9	2591.9	2662.7
10°	2099.3	2245.8	2316.5	2531.3	2637.3
12.5°	1990.7	2076.5	2124.5	2425.2	2601.9
15°	1922.4	1983.0	2018.4	2283.7	2561.6
17.5°	1869.4	1912.4	1937.6	2144.8	2506.0
20°	1836.6	1856.7	1879.5	2043.7	2442.9
22.5°	1813.8	1801.2	1818.9	1973.0	2356.9
25°	1798.6	1750.6	1770.9	1917.4	2255.9
27.5°	1811.3	1705.2	1712.8	1866.9	2149.8
30°	1813.8	1649.6	1652.2	1813.8	2031.0
32.5°	1796.1	1591.5	1594.0	1748.1	1897.2
35°	1753.2	1523.3	1520.8	1672.3	1715.3
37.5°	1695.1	1450.1	1450.1	1589.0	1515.7
40°	1624.3	1376.7	1384.4	1480.4	1338.9
42.5°	1538.5	1298.4	1308.6	1336.4	1207.5
45°	1445.0	1222.7	1230.3	1129.2	1106.5
47.5°	1341.5	1144.3	1146.9	937.3	1073.7
50°	1217.7	1063.6	1053.4	803.3	1071.1
52.5°	1109.0	975.1	944.8	727.5	972.6
55°	1002.9	881.6	815.9	669.5	901.9
57.5°	909.4	760.4	697.2	601.2	886.7
60°	823.5	641.7	593.7	528.0	813.5
62.5°	752.8	553.2	543.1	477.4	737.6
65°	677.0	492.6	490.0	434.5	626.5
67.5°	603.8	452.2	449.7	394.1	477.4
70°	525.4	409.3	404.2	351.1	353.6
72.5°	444.6	361.3	356.2	315.8	293.0
75°	363.8	305.6	303.1	275.3	237.5
77.5°	285.5	242.5	247.6	222.3	174.3
80°	204.6	176.9	181.9	159.2	131.4
82.5°	136.4	116.2	121.2	101.0	88.4
85°	75.8	65.7	68.2	53.1	40.4
87.5°	35.4	30.3	30.3	20.2	12.6
90°	52.5	33.4	31.0	21.5	12.0
92.5°	323.6	230.2	209.9	128.8	47.7
95°	796.2	448.4	411.3	262.9	114.5
97.5°	1072.5	492.5	459.8	328.9	198.0
100°	1173.1	529.5	499.8	381.1	262.3
102.5°	1219.2	566.4	538.7	428.0	317.2
105°	1253.3	621.3	597.9	504.0	410.2
107.5°	1259.7	702.4	680.5	593.1	505.6
110°	1250.2	747.7	728.0	649.0	570.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1250.5	802.6	783.7	708.5	633.3
115°	1262.1	884.9	867.5	798.1	728.7
117.5°	1285.5	964.8	949.0	885.9	822.8
120°	1304.7	1011.3	996.4	937.1	877.7
122.5°	1332.1	1066.1	1051.1	991.3	931.3
125°	1369.0	1136.5	1122.8	1068.2	1013.6
127.5°	1406.0	1204.5	1190.7	1135.5	1080.5
130°	1433.0	1249.8	1235.0	1175.6	1116.2
132.5°	1454.9	1286.8	1272.0	1212.6	1153.2
135°	1478.7	1329.7	1316.2	1262.1	1208.0
137.5°	1514.5	1384.5	1371.1	1317.7	1264.1
140°	1536.4	1421.5	1409.1	1359.9	1310.6
142.5°	1554.6	1448.9	1437.5	1391.9	1346.3
145°	1578.5	1490.7	1480.7	1441.0	1401.2
147.5°	1613.5	1543.2	1533.5	1494.8	1456.1
150°	1631.7	1570.5	1561.8	1526.8	1491.8
152.5°	1643.7	1588.5	1581.9	1555.3	1528.8
155°	1669.9	1627.8	1622.9	1603.3	1583.7
157.5°	1696.1	1667.2	1662.4	1643.4	1624.2
160°	1708.1	1685.0	1681.3	1666.5	1651.7
162.5°	1720.8	1704.2	1701.4	1690.2	1679.1
165°	1739.1	1731.5	1729.0	1718.9	1708.8
167.5°	1753.4	1747.1	1745.8	1741.1	1736.3
170°	1765.3	1765.0	1763.7	1758.9	1754.2
172.5°	1766.1	1766.1	1765.8	1764.8	1763.7
175°	1773.3	1776.8	1776.8	1776.8	1776.8
177.5°	1774.0	1776.8	1776.8	1776.8	1776.8
180°	1776.8	1776.8	1776.8	1776.8	1776.8



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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	12.28	13.04	13.34	14.10	15.54	15.12	15.88	16.17	16.94	18.38
	3H	12.75	13.43	13.81	14.50	15.95	16.46	17.14	17.52	18.21	19.66
	4H	12.93	13.58	14.01	14.65	16.11	16.90	17.54	17.98	18.61	20.08
	6H	13.05	13.64	14.14	14.72	16.19	17.18	17.77	18.27	18.85	20.32
	8H	13.05	13.61	14.14	14.70	16.17	17.25	17.82	18.34	18.91	20.38
	12H	13.01	13.55	14.11	14.63	16.13	17.29	17.82	18.38	18.91	20.40
4H	2H	13.30	13.95	14.39	15.02	16.48	15.51	16.16	16.60	17.23	18.69
	3H	14.32	14.86	15.41	15.95	17.43	17.01	17.55	18.10	18.65	20.12
	4H	14.59	15.08	15.69	16.17	17.67	17.54	18.03	18.63	19.12	20.62
	6H	14.71	15.13	15.81	16.24	17.73	17.90	18.32	19.00	19.43	20.92
	8H	14.71	15.11	15.82	16.21	17.72	18.00	18.40	19.11	19.50	21.01
	12H	14.67	15.03	15.80	16.15	17.66	18.06	18.41	19.18	19.53	21.04
8H	4H	15.04	15.43	16.14	16.54	18.04	17.65	18.05	18.76	19.15	20.66
	6H	15.29	15.62	16.42	16.77	18.27	18.09	18.41	19.21	19.56	21.06
	8H	15.34	15.62	16.47	16.75	18.27	18.24	18.52	19.37	19.65	21.18
	12H	15.31	15.57	16.45	16.69	18.25	18.33	18.59	19.47	19.71	21.27
12H	4H	15.04	15.40	16.16	16.51	18.02	17.61	17.97	18.74	19.09	20.60
	6H	15.35	15.64	16.49	16.77	18.29	18.08	18.37	19.22	19.50	21.02
	8H	15.42	15.67	16.55	16.79	18.35	18.24	18.49	19.38	19.62	21.18