

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: P935648

Luminaire Tested: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-8-6500K

Issue Date: 12/17/2024

**Test Information**

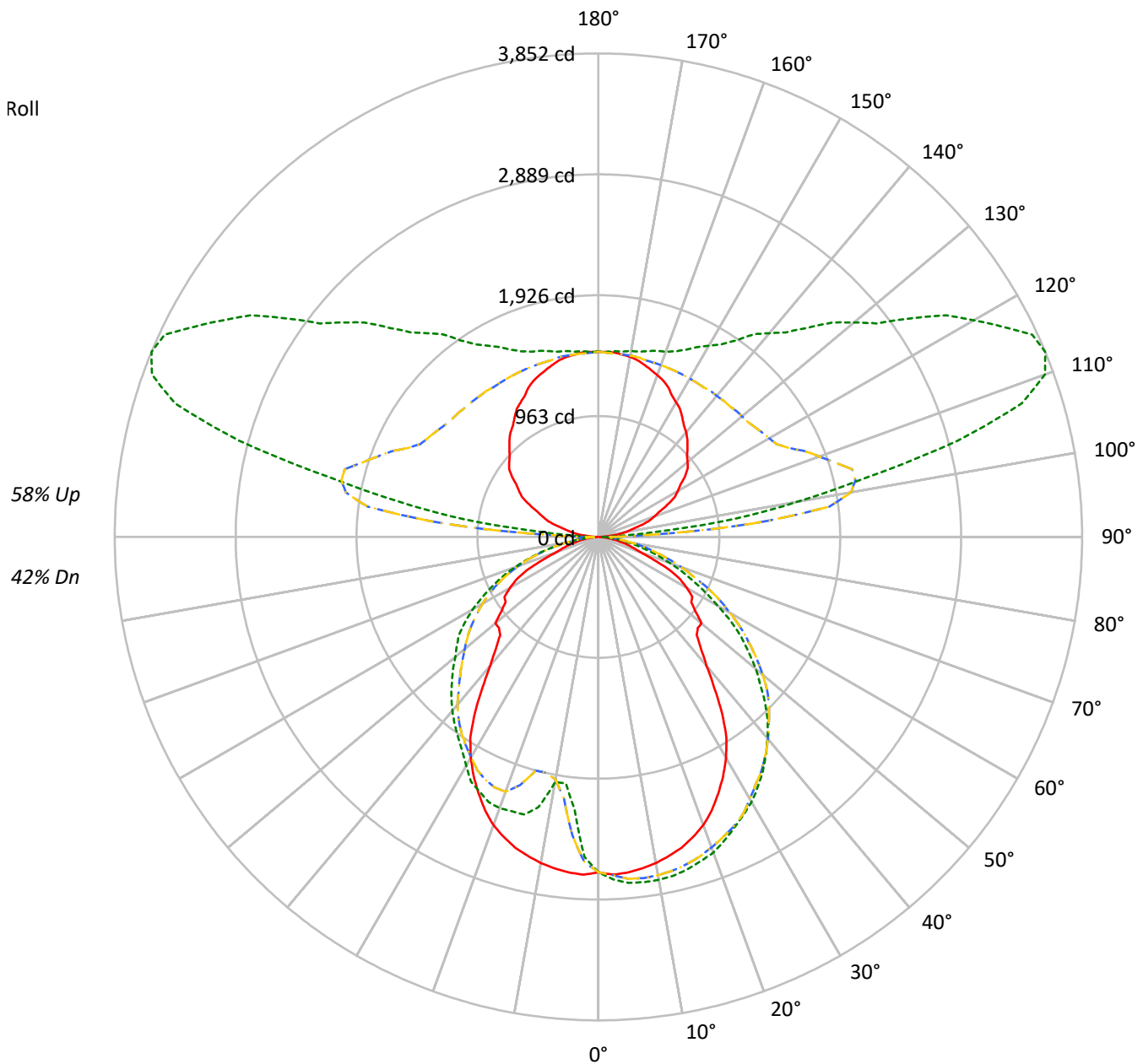
Test Method: LM-79-2019  
Report Number: P935648  
REPORT IS A COMBINATION OF REPORTS P933764 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-8-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 16494.3 lumens  
Efficiency: N/A  
Efficacy: 128.1 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: General Diffuse  
  
Input Watts (W): 128.8  
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	
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	0
RCR																		
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	30
3	80	70	63	57	72	65	58	53	53	49	45	43	40	37	34	31	30	25
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	28	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	13
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	11

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

	0°	90°	180°	270°
0°	12391	12391	12391	12391
5°	12484	12508	12484	9835
10°	12400	12321	12400	8809
15°	12265	12054	12265	10066
20°	12009	11738	12009	10087
25°	11484	11277	11484	9873
30°	10805	10894	10805	9404
35°	9633	10410	9633	8888
40°	8026	9839	8026	8498
45°	7172	9172	7172	8050
50°	7619	8376	7619	7600
55°	7169	7518	7169	7341
60°	7390	6385	7390	6723
65°	6699	5279	6699	5900
70°	4639	4207	4639	4946
75°	4068	3110	4068	3723
80°	3278	2056	3278	2239
85°	1882	1089	1882	925

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10992 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	241.1	1.5
10°-20°	684.5	4.1
20°-30°	1058.1	6.4
30°-40°	1263.2	7.7
40°-50°	1270.6	7.7
50°-60°	1105.5	6.7
60°-70°	783.8	4.8
70°-80°	414.7	2.5
80°-90°	108.9	0.7
90°-100°	719.2	4.4
100°-110°	1890.7	11.5
110°-120°	1960.4	11.9
120°-130°	1572.5	9.5
130°-140°	1233.8	7.5
140°-150°	947.0	5.7
150°-160°	682.0	4.1
160°-170°	417.3	2.5
170°-180°	141.0	0.9
0°-30°	1983.7	12.0
0°-40°	3246.8	19.7
0°-60°	5622.9	34.1
0°-90°	6930.4	42.0
90°-120°	4570.3	27.7
90°-150°	8323.6	50.5
90°-180°	9564.0	58.0
0°-180°	16494.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2671	2671	2671	2671	2671	
5°	2683	2767	2683	2176	2683	255
15°	2562	2742	2562	2289	2562	721
25°	2256	2557	2256	2239	2256	1036
35°	1716	2282	1716	1948	1716	1061
45°	1107	1880	1107	1650	1107	887
55°	902	1387	902	1354	902	829
65°	627	836	627	935	627	599
75°	238	397	238	475	238	250
85°	40	101	40	86	40	55
90°	10	38	10	38	10	10
95°	95	435	95	435	95	106
105°	341	2961	341	2961	341	361
115°	605	3812	605	3812	605	598
125°	842	3036	842	3036	842	747
135°	1003	2356	1003	2356	1003	776
145°	1163	1911	1163	1911	1163	729
155°	1315	1646	1315	1646	1315	604
165°	1419	1533	1419	1533	1419	400
175°	1475	1485	1475	1485	1475	140
180°	1475	1475	1475	1475	1475	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2693.5	2693.5	2708.6	2713.7	2713.7	2706.1	2698.6	2706.1	2728.9	2736.4	2733.9
5°	2683.4	2703.5	2731.4	2736.4	2741.5	2738.9	2733.9	2738.9	2764.3	2769.3	2771.8
7.5°	2663.2	2701.1	2736.4	2744.0	2751.6	2744.0	2741.5	2746.6	2771.8	2776.9	2776.9
10°	2637.8	2690.9	2731.4	2736.4	2744.0	2736.4	2736.4	2746.6	2771.8	2776.9	2779.4
12.5°	2602.5	2675.8	2713.7	2718.7	2728.9	2726.3	2723.8	2733.9	2759.2	2764.3	2764.3
15°	2562.1	2648.0	2683.4	2688.4	2706.1	2701.1	2701.1	2711.2	2738.9	2746.6	2744.0
17.5°	2506.5	2612.6	2653.1	2660.6	2673.2	2670.7	2673.2	2683.4	2708.6	2713.7	2716.3
20°	2443.4	2564.6	2612.6	2620.2	2632.9	2632.9	2632.9	2645.5	2670.7	2680.9	2680.9
22.5°	2357.4	2514.1	2564.6	2569.7	2584.8	2584.8	2589.8	2607.5	2630.3	2632.9	2632.9
25°	2256.3	2458.5	2501.4	2516.6	2531.8	2539.4	2546.9	2557.1	2564.6	2562.1	2564.6
27.5°	2150.2	2387.7	2443.4	2453.4	2473.7	2481.2	2491.4	2493.8	2496.4	2504.0	2498.9
30°	2031.4	2289.2	2372.6	2382.7	2415.5	2420.6	2410.5	2415.5	2428.2	2433.2	2438.3
32.5°	1897.6	2142.6	2299.4	2322.0	2352.3	2337.2	2334.6	2342.3	2362.5	2362.5	2367.5
35°	1715.6	2028.9	2231.1	2251.3	2274.0	2256.3	2266.5	2269.0	2281.7	2289.2	2286.6
37.5°	1516.0	1930.4	2160.3	2175.5	2193.2	2170.5	2185.6	2193.2	2203.3	2198.3	2198.3
40°	1339.1	1776.3	2076.9	2087.1	2102.2	2084.5	2099.7	2104.8	2109.8	2104.8	2102.2
42.5°	1207.8	1607.0	1988.5	2001.1	1991.1	2003.7	2008.8	2018.8	2011.3	2001.1	2001.1
45°	1106.7	1561.5	1892.5	1907.7	1892.5	1912.8	1920.3	1920.3	1897.6	1892.5	1890.0
47.5°	1073.9	1470.5	1796.5	1796.5	1788.9	1814.2	1826.8	1809.1	1786.4	1778.8	1778.8
50°	1071.3	1369.5	1665.1	1655.0	1690.4	1720.7	1708.0	1690.4	1672.7	1644.8	1644.8
52.5°	972.8	1245.6	1495.8	1533.7	1589.3	1607.0	1586.8	1569.1	1538.8	1526.2	1516.0
55°	902.1	1116.8	1341.7	1417.5	1475.6	1498.4	1460.4	1442.8	1397.3	1389.7	1384.7
57.5°	886.9	929.8	1200.2	1296.2	1367.0	1364.4	1341.7	1308.8	1271.0	1263.3	1260.8
60°	813.6	672.1	1048.6	1162.3	1235.6	1227.9	1207.8	1177.5	1142.1	1137.0	1131.9
62.5°	737.8	487.7	876.7	1005.6	1109.2	1106.7	1089.0	1043.5	1018.2	1005.6	995.5
65°	626.6	409.3	624.1	836.4	985.5	990.4	952.6	919.8	891.9	876.7	874.2
67.5°	477.5	333.5	422.0	697.4	866.7	861.6	813.6	798.4	763.0	755.5	740.3
70°	353.7	222.3	293.1	566.0	750.4	737.8	699.9	682.2	649.4	631.7	621.5
72.5°	293.1	179.4	214.8	439.7	631.7	616.6	583.7	563.5	535.7	520.5	510.4
75°	237.5	189.5	164.3	326.0	512.9	502.9	472.5	452.3	429.5	409.3	411.8
77.5°	174.3	176.9	131.4	240.0	406.8	391.7	374.0	348.7	338.6	318.4	318.4
80°	131.4	138.9	98.6	164.3	293.1	293.1	278.0	260.3	242.6	232.5	232.5
82.5°	88.4	88.4	73.2	103.6	199.7	192.0	182.0	176.9	166.8	161.7	161.7
85°	40.4	50.5	45.5	63.2	108.6	113.7	113.7	108.6	106.1	101.1	103.6
87.5°	12.6	22.8	27.8	35.4	55.6	58.1	60.6	60.6	60.6	63.2	63.2
90°	9.9	17.9	25.7	27.7	43.6	64.7	75.3	66.8	50.1	37.6	37.6
92.5°	39.6	106.9	174.3	191.1	268.7	372.1	423.8	371.4	266.7	188.1	180.6
95°	95.0	218.3	341.6	372.3	661.1	1046.2	1238.7	1105.4	838.7	638.6	616.0
97.5°	164.4	273.1	381.8	409.0	890.5	1532.6	1853.6	1769.3	1600.8	1474.4	1431.2
100°	217.8	316.4	415.0	439.7	974.0	1686.4	2042.7	2048.8	2061.2	2070.4	2019.1
102.5°	263.3	355.3	447.3	470.4	1012.3	1734.9	2096.2	2203.5	2418.3	2579.3	2535.3
105°	340.6	418.5	496.4	515.9	1040.6	1740.4	2090.2	2330.9	2812.4	3173.4	3149.8
107.5°	419.9	492.4	565.0	583.2	1045.9	1662.9	1971.4	2307.2	2978.7	3482.4	3488.1
110°	473.3	538.9	604.5	620.9	1038.0	1594.3	1872.4	2247.8	2998.5	3561.5	3586.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	525.8	588.2	650.8	666.4	1038.3	1534.3	1782.2	2166.4	2934.7	3511.0	3548.9
115°	605.0	662.6	720.2	734.6	1047.9	1465.6	1674.4	2044.4	2784.6	3339.8	3392.3
117.5°	683.2	735.6	787.9	801.0	1067.4	1422.5	1600.1	1934.1	2602.1	3103.1	3161.4
120°	728.7	778.1	827.3	839.6	1083.2	1408.0	1570.4	1875.6	2485.9	2943.7	3000.2
122.5°	773.3	823.0	872.7	885.1	1105.9	1400.3	1547.6	1822.4	2372.1	2784.3	2840.1
125°	841.6	887.0	932.3	943.6	1136.6	1394.1	1522.8	1756.3	2223.2	2573.4	2624.7
127.5°	897.1	942.9	988.6	1000.1	1167.4	1390.5	1502.1	1702.5	2103.4	2404.1	2447.4
130°	926.7	976.1	1025.3	1037.7	1189.8	1392.7	1494.1	1672.6	2029.5	2297.2	2337.2
132.5°	957.4	1006.8	1056.0	1068.4	1208.0	1394.1	1487.2	1646.9	1966.4	2206.0	2241.9
135°	1003.0	1047.9	1092.8	1104.0	1227.8	1392.8	1475.3	1609.1	1876.6	2077.3	2108.2
137.5°	1049.5	1094.0	1138.4	1149.5	1257.5	1401.4	1473.3	1586.4	1812.7	1982.3	2007.6
140°	1088.1	1129.1	1170.0	1180.2	1275.7	1402.8	1466.4	1564.1	1759.5	1906.1	1929.7
142.5°	1117.9	1155.8	1193.5	1203.0	1290.8	1407.9	1466.4	1552.2	1723.8	1852.5	1872.9
145°	1163.4	1196.4	1229.5	1237.7	1310.7	1407.9	1456.5	1526.7	1667.1	1772.4	1787.8
147.5°	1209.0	1241.1	1273.3	1281.3	1339.7	1417.6	1456.5	1511.7	1622.2	1705.1	1717.8
150°	1238.7	1267.7	1296.8	1304.1	1354.8	1422.6	1456.5	1503.1	1596.5	1666.5	1676.8
152.5°	1269.3	1291.3	1313.3	1318.9	1364.8	1425.9	1456.5	1496.3	1576.0	1635.8	1643.6
155°	1315.0	1331.2	1347.5	1351.6	1386.6	1433.1	1456.5	1488.2	1551.6	1599.1	1604.3
157.5°	1348.6	1364.4	1380.3	1384.2	1408.3	1440.4	1456.5	1481.1	1530.4	1567.4	1571.0
160°	1371.4	1383.7	1396.0	1399.1	1418.2	1443.8	1456.5	1477.6	1519.9	1551.5	1553.6
162.5°	1394.1	1403.3	1412.6	1414.9	1428.7	1447.2	1456.5	1474.3	1509.9	1536.7	1538.7
165°	1418.9	1427.3	1435.6	1437.7	1443.9	1452.3	1456.5	1469.3	1494.8	1513.9	1516.0
167.5°	1441.7	1445.6	1449.6	1450.5	1455.8	1462.9	1466.4	1474.7	1491.5	1504.0	1504.9
170°	1456.5	1460.5	1464.5	1465.5	1465.7	1466.2	1466.4	1474.7	1491.5	1504.0	1504.0
172.5°	1464.4	1465.3	1466.2	1466.4	1466.4	1466.4	1466.4	1473.0	1486.2	1496.2	1495.4
175°	1475.3	1475.3	1475.3	1475.3	1472.3	1468.4	1466.4	1470.6	1478.9	1485.3	1485.3
177.5°	1475.3	1475.3	1475.3	1475.3	1473.0	1470.0	1468.4	1471.7	1478.3	1483.2	1482.4
180°	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2738.9	2731.4	2738.9	2733.9	2736.4	2728.9	2706.1	2698.6	2706.1	2713.7	2713.7
5°	2771.8	2766.7	2771.8	2771.8	2769.3	2764.3	2738.9	2733.9	2738.9	2741.5	2736.4
7.5°	2781.9	2774.3	2781.9	2776.9	2776.9	2771.8	2746.6	2741.5	2744.0	2751.6	2744.0
10°	2781.9	2774.3	2781.9	2779.4	2776.9	2771.8	2746.6	2736.4	2736.4	2744.0	2736.4
12.5°	2769.3	2764.3	2769.3	2764.3	2764.3	2759.2	2733.9	2723.8	2726.3	2728.9	2718.7
15°	2749.1	2741.5	2749.1	2744.0	2746.6	2738.9	2711.2	2701.1	2701.1	2706.1	2688.4
17.5°	2718.7	2708.6	2718.7	2716.3	2713.7	2708.6	2683.4	2673.2	2670.7	2673.2	2660.6
20°	2683.4	2675.8	2683.4	2680.9	2680.9	2670.7	2645.5	2632.9	2632.9	2632.9	2620.2
22.5°	2627.8	2620.2	2627.8	2632.9	2632.9	2630.3	2607.5	2589.8	2584.8	2584.8	2569.7
25°	2564.6	2557.1	2564.6	2564.6	2562.1	2564.6	2557.1	2546.9	2539.4	2531.8	2516.6
27.5°	2504.0	2498.9	2504.0	2498.9	2504.0	2496.4	2493.8	2491.4	2481.2	2473.7	2453.4
30°	2443.4	2438.3	2443.4	2438.3	2433.2	2428.2	2415.5	2410.5	2420.6	2415.5	2382.7
32.5°	2367.5	2362.5	2367.5	2367.5	2362.5	2362.5	2342.3	2334.6	2337.2	2352.3	2322.0
35°	2289.2	2281.7	2289.2	2286.6	2289.2	2281.7	2269.0	2266.5	2256.3	2274.0	2251.3
37.5°	2198.3	2190.6	2198.3	2198.3	2198.3	2203.3	2193.2	2185.6	2170.5	2193.2	2175.5
40°	2104.8	2094.6	2104.8	2102.2	2104.8	2109.8	2104.8	2099.7	2084.5	2102.2	2087.1
42.5°	1998.6	1996.1	1998.6	2001.1	2001.1	2011.3	2018.8	2008.8	2003.7	1991.1	2001.1
45°	1884.9	1879.9	1884.9	1890.0	1892.5	1897.6	1920.3	1920.3	1912.8	1892.5	1907.7
47.5°	1763.6	1751.0	1763.6	1778.8	1778.8	1786.4	1809.1	1826.8	1814.2	1788.9	1796.5
50°	1634.8	1637.3	1634.8	1644.8	1644.8	1672.7	1690.4	1708.0	1720.7	1690.4	1655.0
52.5°	1508.5	1505.9	1508.5	1516.0	1526.2	1538.8	1569.1	1586.8	1607.0	1589.3	1533.7
55°	1382.1	1387.1	1382.1	1384.7	1389.7	1397.3	1442.8	1460.4	1498.4	1475.6	1417.5
57.5°	1255.8	1248.2	1255.8	1260.8	1263.3	1271.0	1308.8	1341.7	1364.4	1367.0	1296.2
60°	1109.2	1099.1	1109.2	1131.9	1137.0	1142.1	1177.5	1207.8	1227.9	1235.6	1162.3
62.5°	980.4	962.7	980.4	995.5	1005.6	1018.2	1043.5	1089.0	1106.7	1109.2	1005.6
65°	843.9	836.4	843.9	874.2	876.7	891.9	919.8	952.6	990.4	985.5	836.4
67.5°	720.1	720.1	720.1	740.3	755.5	763.0	798.4	813.6	861.6	866.7	697.4
70°	606.4	603.9	606.4	621.5	631.7	649.4	682.2	699.9	737.8	750.4	566.0
72.5°	497.8	495.2	497.8	510.4	520.5	535.7	563.5	583.7	616.6	631.7	439.7
75°	401.8	396.7	401.8	411.8	409.3	429.5	452.3	472.5	502.9	512.9	326.0
77.5°	308.3	308.3	308.3	318.4	318.4	338.6	348.7	374.0	391.7	406.8	240.0
80°	230.0	227.4	230.0	232.5	232.5	242.6	260.3	278.0	293.1	293.1	164.3
82.5°	161.7	156.6	161.7	161.7	161.7	166.8	176.9	182.0	192.0	199.7	103.6
85°	101.1	101.1	101.1	103.6	101.1	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	55.6	35.4
90°	37.6	37.6	37.6	37.6	37.6	50.1	66.8	75.3	64.7	43.6	27.7
92.5°	150.7	120.8	150.7	180.6	188.1	266.7	371.4	423.8	372.1	268.7	191.1
95°	525.3	434.7	525.3	616.0	638.6	838.7	1105.4	1238.7	1046.2	661.1	372.3
97.5°	1258.7	1086.2	1258.7	1431.2	1474.4	1600.8	1769.3	1853.6	1532.6	890.5	409.0
100°	1813.5	1608.0	1813.5	2019.1	2070.4	2061.2	2048.8	2042.7	1686.4	974.0	439.7
102.5°	2359.3	2183.3	2359.3	2535.3	2579.3	2418.3	2203.5	2096.2	1734.9	1012.3	470.4
105°	3055.1	2960.6	3055.1	3149.8	3173.4	2812.4	2330.9	2090.2	1740.4	1040.6	515.9
107.5°	3510.9	3533.8	3510.9	3488.1	3482.4	2978.7	2307.2	1971.4	1662.9	1045.9	583.2
110°	3684.8	3783.4	3684.8	3586.2	3561.5	2998.5	2247.8	1872.4	1594.3	1038.0	620.9





TEST NUMBER: P935648

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3700.3	3851.6	3700.3	3548.9	3511.0	2934.7	2166.4	1782.2	1534.3	1038.3	666.4
115°	3602.2	3812.1	3602.2	3392.3	3339.8	2784.6	2044.4	1674.4	1465.6	1047.9	734.6
117.5°	3394.1	3626.9	3394.1	3161.4	3103.1	2602.1	1934.1	1600.1	1422.5	1067.4	801.0
120°	3226.5	3452.6	3226.5	3000.2	2943.7	2485.9	1875.6	1570.4	1408.0	1083.2	839.6
122.5°	3063.3	3286.3	3063.3	2840.1	2784.3	2372.1	1822.4	1547.6	1400.3	1105.9	885.1
125°	2830.3	3035.8	2830.3	2624.7	2573.4	2223.2	1756.3	1522.8	1394.1	1136.6	943.6
127.5°	2620.8	2794.2	2620.8	2447.4	2404.1	2103.4	1702.5	1502.1	1390.5	1167.4	1000.1
130°	2497.4	2657.5	2497.4	2337.2	2297.2	2029.5	1672.6	1494.1	1392.7	1189.8	1037.7
132.5°	2385.4	2528.8	2385.4	2241.9	2206.0	1966.4	1646.9	1487.2	1394.1	1208.0	1068.4
135°	2231.9	2355.6	2231.9	2108.2	2077.3	1876.6	1609.1	1475.3	1392.8	1227.8	1104.0
137.5°	2108.8	2210.0	2108.8	2007.6	1982.3	1812.7	1586.4	1473.3	1401.4	1257.5	1149.5
140°	2024.4	2118.9	2024.4	1929.7	1906.1	1759.5	1564.1	1466.4	1402.8	1275.7	1180.2
142.5°	1954.3	2035.7	1954.3	1872.9	1852.5	1723.8	1552.2	1466.4	1407.9	1290.8	1203.0
145°	1849.4	1911.0	1849.4	1787.8	1772.4	1667.1	1526.7	1456.5	1407.9	1310.7	1237.7
147.5°	1768.9	1819.9	1768.9	1717.8	1705.1	1622.2	1511.7	1456.5	1417.6	1339.7	1281.3
150°	1718.2	1759.5	1718.2	1676.8	1666.5	1596.5	1503.1	1456.5	1422.6	1354.8	1304.1
152.5°	1674.8	1706.0	1674.8	1643.6	1635.8	1576.0	1496.3	1456.5	1425.9	1364.8	1318.9
155°	1625.0	1645.6	1625.0	1604.3	1599.1	1551.6	1488.2	1456.5	1433.1	1386.6	1351.6
157.5°	1585.6	1600.1	1585.6	1571.0	1567.4	1530.4	1481.1	1456.5	1440.4	1408.3	1384.2
160°	1561.9	1570.4	1561.9	1553.6	1551.5	1519.9	1477.6	1456.5	1443.8	1418.2	1399.1
162.5°	1546.6	1554.6	1546.6	1538.7	1536.7	1509.9	1474.3	1456.5	1447.2	1428.7	1414.9
165°	1524.4	1532.8	1524.4	1516.0	1513.9	1494.8	1469.3	1456.5	1452.3	1443.9	1437.7
167.5°	1508.4	1511.9	1508.4	1504.9	1504.0	1491.5	1474.7	1466.4	1462.9	1455.8	1450.5
170°	1504.0	1504.0	1504.0	1504.0	1504.0	1491.5	1474.7	1466.4	1466.2	1465.7	1465.5
172.5°	1492.2	1489.2	1492.2	1495.4	1496.2	1486.2	1473.0	1466.4	1466.4	1466.4	1466.4
175°	1485.3	1485.3	1485.3	1485.3	1485.3	1478.9	1470.6	1466.4	1468.4	1472.3	1475.3
177.5°	1478.8	1475.3	1478.8	1482.4	1483.2	1478.3	1471.7	1468.4	1470.0	1473.0	1475.3
180°	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2708.6	2693.5	2693.5	2668.3	2658.1	2650.6	2637.8	2600.0	2589.8	2579.8	2594.9
5°	2731.4	2703.5	2683.4	2637.8	2600.0	2584.8	2536.8	2445.8	2385.2	2339.7	2314.5
7.5°	2736.4	2701.1	2663.2	2592.4	2501.4	2461.0	2314.5	2147.7	2102.2	2061.8	2036.5
10°	2731.4	2690.9	2637.8	2531.8	2317.0	2246.3	2099.7	1991.1	1963.3	1955.7	1963.3
12.5°	2713.7	2675.8	2602.5	2425.7	2124.9	2076.9	1991.1	1927.9	1922.8	1935.4	2003.7
15°	2683.4	2648.0	2562.1	2284.2	2018.8	1983.4	1922.8	1900.1	1927.9	2016.3	2220.9
17.5°	2653.1	2612.6	2506.5	2145.2	1938.0	1912.8	1869.7	1915.3	2071.9	2190.6	2258.9
20°	2612.6	2564.6	2443.4	2044.1	1879.9	1857.1	1836.9	2041.6	2160.3	2203.3	2241.2
22.5°	2564.6	2514.1	2357.4	1973.4	1819.3	1801.6	1814.2	2112.3	2160.3	2190.6	2223.5
25°	2501.4	2458.5	2256.3	1917.7	1771.3	1751.0	1799.0	2104.8	2132.5	2140.2	2205.8
27.5°	2443.4	2387.7	2150.2	1867.3	1713.1	1705.6	1811.7	2071.9	2092.2	2099.7	2170.5
30°	2372.6	2289.2	2031.4	1814.2	1652.5	1649.9	1814.2	2031.4	2026.5	2046.6	2117.4
32.5°	2299.4	2142.6	1897.6	1748.5	1594.4	1591.9	1796.5	1970.8	1965.7	1993.6	2046.6
35°	2231.1	2028.9	1715.6	1672.7	1521.1	1523.6	1753.6	1900.1	1902.6	1927.9	1960.8
37.5°	2160.3	1930.4	1516.0	1589.3	1450.4	1450.4	1695.4	1834.4	1829.4	1836.9	1882.4
40°	2076.9	1776.3	1339.1	1480.7	1384.7	1377.0	1624.7	1763.6	1745.9	1743.4	1806.6
42.5°	1988.5	1607.0	1207.8	1336.7	1308.8	1298.7	1538.8	1677.7	1644.8	1652.5	1733.3
45°	1892.5	1561.5	1106.7	1129.5	1230.5	1223.0	1445.3	1579.2	1556.5	1576.7	1660.0
47.5°	1796.5	1470.5	1073.9	937.5	1147.1	1144.6	1341.7	1483.2	1470.5	1490.8	1579.2
50°	1665.1	1369.5	1071.3	803.5	1053.6	1063.8	1217.9	1389.7	1389.7	1407.4	1500.8
52.5°	1495.8	1245.6	972.8	727.7	945.0	975.3	1109.2	1308.8	1313.9	1331.6	1415.0
55°	1341.7	1116.8	902.1	669.6	816.1	881.8	1003.1	1225.5	1235.6	1253.3	1329.0
57.5°	1200.2	929.8	886.9	601.3	697.4	760.6	909.6	1144.6	1149.6	1164.8	1238.1
60°	1048.6	672.1	813.6	528.1	593.8	641.8	823.7	1048.6	1066.3	1076.4	1139.6
62.5°	876.7	487.7	737.8	477.5	543.2	553.3	753.0	957.6	980.4	987.9	1025.8
65°	624.1	409.3	626.6	434.6	490.1	492.7	677.2	864.1	884.4	897.0	924.7
67.5°	422.0	333.5	477.5	394.1	449.8	452.3	603.9	755.5	783.3	793.4	811.0
70°	293.1	222.3	353.7	351.2	404.3	409.3	525.5	656.9	682.2	689.8	699.9
72.5°	214.8	179.4	293.1	315.8	356.3	361.3	444.7	545.8	571.0	578.6	583.7
75°	164.3	189.5	237.5	275.4	303.2	305.7	363.8	444.7	462.4	467.5	470.0
77.5°	131.4	176.9	174.3	222.3	247.7	242.6	285.5	343.7	358.8	358.8	358.8
80°	98.6	138.9	131.4	159.2	182.0	176.9	204.6	245.1	250.1	255.2	252.6
82.5°	73.2	88.4	88.4	101.1	121.2	116.3	136.4	159.2	159.2	159.2	164.3
85°	45.5	50.5	40.4	53.1	68.2	65.7	75.8	85.9	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°	25.7	17.9	9.9	17.9	25.7	27.7	43.6	64.7	75.3	66.8	50.1
92.5°	174.3	106.9	39.6	106.9	174.3	191.1	268.7	372.1	423.8	371.4	266.7
95°	341.6	218.3	95.0	218.3	341.6	372.3	661.1	1046.2	1238.7	1105.4	838.7
97.5°	381.8	273.1	164.4	273.1	381.8	409.0	890.5	1532.6	1853.6	1769.3	1600.8
100°	415.0	316.4	217.8	316.4	415.0	439.7	974.0	1686.4	2042.7	2048.8	2061.2
102.5°	447.3	355.3	263.3	355.3	447.3	470.4	1012.3	1734.9	2096.2	2203.5	2418.3
105°	496.4	418.5	340.6	418.5	496.4	515.9	1040.6	1740.4	2090.2	2330.9	2812.4
107.5°	565.0	492.4	419.9	492.4	565.0	583.2	1045.9	1662.9	1971.4	2307.2	2978.7
110°	604.5	538.9	473.3	538.9	604.5	620.9	1038.0	1594.3	1872.4	2247.8	2998.5



TEST NUMBER: P935648

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	650.8	588.2	525.8	588.2	650.8	666.4	1038.3	1534.3	1782.2	2166.4	2934.7
115°	720.2	662.6	605.0	662.6	720.2	734.6	1047.9	1465.6	1674.4	2044.4	2784.6
117.5°	787.9	735.6	683.2	735.6	787.9	801.0	1067.4	1422.5	1600.1	1934.1	2602.1
120°	827.3	778.1	728.7	778.1	827.3	839.6	1083.2	1408.0	1570.4	1875.6	2485.9
122.5°	872.7	823.0	773.3	823.0	872.7	885.1	1105.9	1400.3	1547.6	1822.4	2372.1
125°	932.3	887.0	841.6	887.0	932.3	943.6	1136.6	1394.1	1522.8	1756.3	2223.2
127.5°	988.6	942.9	897.1	942.9	988.6	1000.1	1167.4	1390.5	1502.1	1702.5	2103.4
130°	1025.3	976.1	926.7	976.1	1025.3	1037.7	1189.8	1392.7	1494.1	1672.6	2029.5
132.5°	1056.0	1006.8	957.4	1006.8	1056.0	1068.4	1208.0	1394.1	1487.2	1646.9	1966.4
135°	1092.8	1047.9	1003.0	1047.9	1092.8	1104.0	1227.8	1392.8	1475.3	1609.1	1876.6
137.5°	1138.4	1094.0	1049.5	1094.0	1138.4	1149.5	1257.5	1401.4	1473.3	1586.4	1812.7
140°	1170.0	1129.1	1088.1	1129.1	1170.0	1180.2	1275.7	1402.8	1466.4	1564.1	1759.5
142.5°	1193.5	1155.8	1117.9	1155.8	1193.5	1203.0	1290.8	1407.9	1466.4	1552.2	1723.8
145°	1229.5	1196.4	1163.4	1196.4	1229.5	1237.7	1310.7	1407.9	1456.5	1526.7	1667.1
147.5°	1273.3	1241.1	1209.0	1241.1	1273.3	1281.3	1339.7	1417.6	1456.5	1511.7	1622.2
150°	1296.8	1267.7	1238.7	1267.7	1296.8	1304.1	1354.8	1422.6	1456.5	1503.1	1596.5
152.5°	1313.3	1291.3	1269.3	1291.3	1313.3	1318.9	1364.8	1425.9	1456.5	1496.3	1576.0
155°	1347.5	1331.2	1315.0	1331.2	1347.5	1351.6	1386.6	1433.1	1456.5	1488.2	1551.6
157.5°	1380.3	1364.4	1348.6	1364.4	1380.3	1384.2	1408.3	1440.4	1456.5	1481.1	1530.4
160°	1396.0	1383.7	1371.4	1383.7	1396.0	1399.1	1418.2	1443.8	1456.5	1477.6	1519.9
162.5°	1412.6	1403.3	1394.1	1403.3	1412.6	1414.9	1428.7	1447.2	1456.5	1474.3	1509.9
165°	1435.6	1427.3	1418.9	1427.3	1435.6	1437.7	1443.9	1452.3	1456.5	1469.3	1494.8
167.5°	1449.6	1445.6	1441.7	1445.6	1449.6	1450.5	1455.8	1462.9	1466.4	1474.7	1491.5
170°	1464.5	1460.5	1456.5	1460.5	1464.5	1465.5	1465.7	1466.2	1466.4	1474.7	1491.5
172.5°	1466.2	1465.3	1464.4	1465.3	1466.2	1466.4	1466.4	1466.4	1466.4	1473.0	1486.2
175°	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1472.3	1468.4	1466.4	1470.6	1478.9
177.5°	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1473.0	1470.0	1468.4	1471.7	1478.3
180°	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3



TEST NUMBER: P935648

CATALOG NUMBER: SQ4-FA-125U-100D-92765-1D-UNV-STD-W-8-6500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2577.2	2569.7	2579.8	2552.0	2579.8	2569.7	2577.2	2594.9	2579.8	2589.8	2600.0
5°	2261.4	2248.8	2208.3	2175.5	2208.3	2248.8	2261.4	2314.5	2339.7	2385.2	2445.8
7.5°	2021.4	2011.3	2001.1	1980.9	2001.1	2011.3	2021.4	2036.5	2061.8	2102.2	2147.7
10°	1968.3	1970.8	1986.0	1983.4	1986.0	1970.8	1968.3	1963.3	1955.7	1963.3	1991.1
12.5°	2104.8	2127.5	2210.9	2205.8	2210.9	2127.5	2104.8	2003.7	1935.4	1922.8	1927.9
15°	2261.4	2269.0	2286.6	2289.2	2286.6	2269.0	2261.4	2220.9	2016.3	1927.9	1900.1
17.5°	2276.6	2279.1	2291.7	2291.7	2291.7	2279.1	2276.6	2258.9	2190.6	2071.9	1915.3
20°	2264.0	2269.0	2294.3	2299.4	2294.3	2269.0	2264.0	2241.2	2203.3	2160.3	2041.6
22.5°	2258.9	2269.0	2289.2	2286.6	2289.2	2269.0	2258.9	2223.5	2190.6	2160.3	2112.3
25°	2233.6	2233.6	2236.2	2238.6	2236.2	2233.6	2233.6	2205.8	2140.2	2132.5	2104.8
27.5°	2180.6	2185.6	2200.8	2198.3	2200.8	2185.6	2180.6	2170.5	2099.7	2092.2	2071.9
30°	2132.5	2127.5	2114.8	2104.8	2114.8	2127.5	2132.5	2117.4	2046.6	2026.5	2031.4
32.5°	2051.7	2039.1	2026.5	2018.8	2026.5	2039.1	2051.7	2046.6	1993.6	1965.7	1970.8
35°	1955.7	1958.2	1955.7	1948.1	1955.7	1958.2	1955.7	1960.8	1927.9	1902.6	1900.1
37.5°	1887.4	1892.5	1890.0	1879.9	1890.0	1892.5	1887.4	1882.4	1836.9	1829.4	1834.4
40°	1816.7	1819.3	1816.7	1809.1	1816.7	1819.3	1816.7	1806.6	1743.4	1745.9	1763.6
42.5°	1748.5	1745.9	1738.4	1733.3	1738.4	1745.9	1748.5	1733.3	1652.5	1644.8	1677.7
45°	1670.2	1672.7	1657.6	1649.9	1657.6	1672.7	1670.2	1660.0	1576.7	1556.5	1579.2
47.5°	1591.9	1591.9	1579.2	1571.6	1579.2	1591.9	1591.9	1579.2	1490.8	1470.5	1483.2
50°	1508.5	1505.9	1488.2	1485.7	1488.2	1505.9	1508.5	1500.8	1407.4	1389.7	1389.7
52.5°	1412.4	1412.4	1415.0	1420.0	1415.0	1412.4	1412.4	1415.0	1331.6	1313.9	1308.8
55°	1329.0	1331.6	1349.3	1354.4	1349.3	1331.6	1329.0	1329.0	1253.3	1235.6	1225.5
57.5°	1243.1	1243.1	1255.8	1255.8	1255.8	1243.1	1243.1	1238.1	1164.8	1149.6	1144.6
60°	1144.6	1149.6	1159.8	1157.3	1159.8	1149.6	1144.6	1139.6	1076.4	1066.3	1048.6
62.5°	1041.0	1046.1	1048.6	1043.5	1048.6	1046.1	1041.0	1025.8	987.9	980.4	957.6
65°	932.4	937.5	939.9	934.9	939.9	937.5	932.4	924.7	897.0	884.4	864.1
67.5°	821.2	818.7	816.1	826.2	816.1	818.7	821.2	811.0	793.4	783.3	755.5
70°	707.5	707.5	704.9	710.0	704.9	707.5	707.5	699.9	689.8	682.2	656.9
72.5°	586.2	583.7	593.8	586.2	593.8	583.7	586.2	583.7	578.6	571.0	545.8
75°	467.5	472.5	467.5	475.0	467.5	472.5	467.5	470.0	467.5	462.4	444.7
77.5°	356.3	361.3	356.3	356.3	356.3	361.3	356.3	358.8	358.8	358.8	343.7
80°	252.6	250.1	250.1	247.7	250.1	250.1	252.6	252.6	255.2	250.1	245.1
82.5°	161.7	159.2	159.2	164.3	159.2	159.2	161.7	164.3	159.2	159.2	159.2
85°	88.4	90.9	85.9	85.9	85.9	90.9	88.4	83.4	88.4	88.4	85.9
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°	37.6	37.6	37.6	37.6	37.6	37.6	37.6	50.1	66.8	75.3	64.7
92.5°	188.1	180.6	150.7	120.8	150.7	180.6	188.1	266.7	371.4	423.8	372.1
95°	638.6	616.0	525.3	434.7	525.3	616.0	638.6	838.7	1105.4	1238.7	1046.2
97.5°	1474.4	1431.2	1258.7	1086.2	1258.7	1431.2	1474.4	1600.8	1769.3	1853.6	1532.6
100°	2070.4	2019.1	1813.5	1608.0	1813.5	2019.1	2070.4	2061.2	2048.8	2042.7	1686.4
102.5°	2579.3	2535.3	2359.3	2183.3	2359.3	2535.3	2579.3	2418.3	2203.5	2096.2	1734.9
105°	3173.4	3149.8	3055.1	2960.6	3055.1	3149.8	3173.4	2812.4	2330.9	2090.2	1740.4
107.5°	3482.4	3488.1	3510.9	3533.8	3510.9	3488.1	3482.4	2978.7	2307.2	1971.4	1662.9
110°	3561.5	3586.2	3684.8	3783.4	3684.8	3586.2	3561.5	2998.5	2247.8	1872.4	1594.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3511.0	3548.9	3700.3	3851.6	3700.3	3548.9	3511.0	2934.7	2166.4	1782.2	1534.3
115°	3339.8	3392.3	3602.2	3812.1	3602.2	3392.3	3339.8	2784.6	2044.4	1674.4	1465.6
117.5°	3103.1	3161.4	3394.1	3626.9	3394.1	3161.4	3103.1	2602.1	1934.1	1600.1	1422.5
120°	2943.7	3000.2	3226.5	3452.6	3226.5	3000.2	2943.7	2485.9	1875.6	1570.4	1408.0
122.5°	2784.3	2840.1	3063.3	3286.3	3063.3	2840.1	2784.3	2372.1	1822.4	1547.6	1400.3
125°	2573.4	2624.7	2830.3	3035.8	2830.3	2624.7	2573.4	2223.2	1756.3	1522.8	1394.1
127.5°	2404.1	2447.4	2620.8	2794.2	2620.8	2447.4	2404.1	2103.4	1702.5	1502.1	1390.5
130°	2297.2	2337.2	2497.4	2657.5	2497.4	2337.2	2297.2	2029.5	1672.6	1494.1	1392.7
132.5°	2206.0	2241.9	2385.4	2528.8	2385.4	2241.9	2206.0	1966.4	1646.9	1487.2	1394.1
135°	2077.3	2108.2	2231.9	2355.6	2231.9	2108.2	2077.3	1876.6	1609.1	1475.3	1392.8
137.5°	1982.3	2007.6	2108.8	2210.0	2108.8	2007.6	1982.3	1812.7	1586.4	1473.3	1401.4
140°	1906.1	1929.7	2024.4	2118.9	2024.4	1929.7	1906.1	1759.5	1564.1	1466.4	1402.8
142.5°	1852.5	1872.9	1954.3	2035.7	1954.3	1872.9	1852.5	1723.8	1552.2	1466.4	1407.9
145°	1772.4	1787.8	1849.4	1911.0	1849.4	1787.8	1772.4	1667.1	1526.7	1456.5	1407.9
147.5°	1705.1	1717.8	1768.9	1819.9	1768.9	1717.8	1705.1	1622.2	1511.7	1456.5	1417.6
150°	1666.5	1676.8	1718.2	1759.5	1718.2	1676.8	1666.5	1596.5	1503.1	1456.5	1422.6
152.5°	1635.8	1643.6	1674.8	1706.0	1674.8	1643.6	1635.8	1576.0	1496.3	1456.5	1425.9
155°	1599.1	1604.3	1625.0	1645.6	1625.0	1604.3	1599.1	1551.6	1488.2	1456.5	1433.1
157.5°	1567.4	1571.0	1585.6	1600.1	1585.6	1571.0	1567.4	1530.4	1481.1	1456.5	1440.4
160°	1551.5	1553.6	1561.9	1570.4	1561.9	1553.6	1551.5	1519.9	1477.6	1456.5	1443.8
162.5°	1536.7	1538.7	1546.6	1554.6	1546.6	1538.7	1536.7	1509.9	1474.3	1456.5	1447.2
165°	1513.9	1516.0	1524.4	1532.8	1524.4	1516.0	1513.9	1494.8	1469.3	1456.5	1452.3
167.5°	1504.0	1504.9	1508.4	1511.9	1508.4	1504.9	1504.0	1491.5	1474.7	1466.4	1462.9
170°	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0	1504.0	1491.5	1474.7	1466.4	1466.2
172.5°	1496.2	1495.4	1492.2	1489.2	1492.2	1495.4	1496.2	1486.2	1473.0	1466.4	1466.4
175°	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1485.3	1478.9	1470.6	1466.4	1468.4
177.5°	1483.2	1482.4	1478.8	1475.3	1478.8	1482.4	1483.2	1478.3	1471.7	1468.4	1470.0
180°	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3	1475.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2670.7	2670.7	2670.7	2670.7	2670.7
2.5°	2637.8	2650.6	2658.1	2668.3	2693.5
5°	2536.8	2584.8	2600.0	2637.8	2683.4
7.5°	2314.5	2461.0	2501.4	2592.4	2663.2
10°	2099.7	2246.3	2317.0	2531.8	2637.8
12.5°	1991.1	2076.9	2124.9	2425.7	2602.5
15°	1922.8	1983.4	2018.8	2284.2	2562.1
17.5°	1869.7	1912.8	1938.0	2145.2	2506.5
20°	1836.9	1857.1	1879.9	2044.1	2443.4
22.5°	1814.2	1801.6	1819.3	1973.4	2357.4
25°	1799.0	1751.0	1771.3	1917.7	2256.3
27.5°	1811.7	1705.6	1713.1	1867.3	2150.2
30°	1814.2	1649.9	1652.5	1814.2	2031.4
32.5°	1796.5	1591.9	1594.4	1748.5	1897.6
35°	1753.6	1523.6	1521.1	1672.7	1715.6
37.5°	1695.4	1450.4	1450.4	1589.3	1516.0
40°	1624.7	1377.0	1384.7	1480.7	1339.1
42.5°	1538.8	1298.7	1308.8	1336.7	1207.8
45°	1445.3	1223.0	1230.5	1129.5	1106.7
47.5°	1341.7	1144.6	1147.1	937.5	1073.9
50°	1217.9	1063.8	1053.6	803.5	1071.3
52.5°	1109.2	975.3	945.0	727.7	972.8
55°	1003.1	881.8	816.1	669.6	902.1
57.5°	909.6	760.6	697.4	601.3	886.9
60°	823.7	641.8	593.8	528.1	813.6
62.5°	753.0	553.3	543.2	477.5	737.8
65°	677.2	492.7	490.1	434.6	626.6
67.5°	603.9	452.3	449.8	394.1	477.5
70°	525.5	409.3	404.3	351.2	353.7
72.5°	444.7	361.3	356.3	315.8	293.1
75°	363.8	305.7	303.2	275.4	237.5
77.5°	285.5	242.6	247.7	222.3	174.3
80°	204.6	176.9	182.0	159.2	131.4
82.5°	136.4	116.3	121.2	101.1	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°	43.6	27.7	25.7	17.9	9.9
92.5°	268.7	191.1	174.3	106.9	39.6
95°	661.1	372.3	341.6	218.3	95.0
97.5°	890.5	409.0	381.8	273.1	164.4
100°	974.0	439.7	415.0	316.4	217.8
102.5°	1012.3	470.4	447.3	355.3	263.3
105°	1040.6	515.9	496.4	418.5	340.6
107.5°	1045.9	583.2	565.0	492.4	419.9
110°	1038.0	620.9	604.5	538.9	473.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1038.3	666.4	650.8	588.2	525.8
115°	1047.9	734.6	720.2	662.6	605.0
117.5°	1067.4	801.0	787.9	735.6	683.2
120°	1083.2	839.6	827.3	778.1	728.7
122.5°	1105.9	885.1	872.7	823.0	773.3
125°	1136.6	943.6	932.3	887.0	841.6
127.5°	1167.4	1000.1	988.6	942.9	897.1
130°	1189.8	1037.7	1025.3	976.1	926.7
132.5°	1208.0	1068.4	1056.0	1006.8	957.4
135°	1227.8	1104.0	1092.8	1047.9	1003.0
137.5°	1257.5	1149.5	1138.4	1094.0	1049.5
140°	1275.7	1180.2	1170.0	1129.1	1088.1
142.5°	1290.8	1203.0	1193.5	1155.8	1117.9
145°	1310.7	1237.7	1229.5	1196.4	1163.4
147.5°	1339.7	1281.3	1273.3	1241.1	1209.0
150°	1354.8	1304.1	1296.8	1267.7	1238.7
152.5°	1364.8	1318.9	1313.3	1291.3	1269.3
155°	1386.6	1351.6	1347.5	1331.2	1315.0
157.5°	1408.3	1384.2	1380.3	1364.4	1348.6
160°	1418.2	1399.1	1396.0	1383.7	1371.4
162.5°	1428.7	1414.9	1412.6	1403.3	1394.1
165°	1443.9	1437.7	1435.6	1427.3	1418.9
167.5°	1455.8	1450.5	1449.6	1445.6	1441.7
170°	1465.7	1465.5	1464.5	1460.5	1456.5
172.5°	1466.4	1466.4	1466.2	1465.3	1464.4
175°	1472.3	1475.3	1475.3	1475.3	1475.3
177.5°	1473.0	1475.3	1475.3	1475.3	1475.3
180°	1475.3	1475.3	1475.3	1475.3	1475.3



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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	12.77	13.56	13.79	14.59	15.97	15.60	16.40	16.63	17.43	18.81
	3H	13.24	13.95	14.27	14.99	16.39	16.95	17.66	17.98	18.70	20.10
	4H	13.43	14.10	14.47	15.14	16.55	17.39	18.06	18.43	19.11	20.51
	6H	13.54	14.16	14.60	15.21	16.63	17.67	18.29	18.73	19.34	20.76
	8H	13.54	14.13	14.60	15.19	16.61	17.75	18.34	18.81	19.40	20.81
	12H	13.51	14.07	14.57	15.13	16.57	17.78	18.34	18.85	19.40	20.84
4H	2H	13.79	14.47	14.84	15.51	16.92	16.00	16.68	17.06	17.72	19.13
	3H	14.81	15.37	15.87	16.44	17.87	17.51	18.07	18.57	19.14	20.56
	4H	15.09	15.60	16.15	16.66	18.11	18.03	18.55	19.10	19.61	21.05
	6H	15.21	15.65	16.28	16.73	18.17	18.40	18.84	19.47	19.92	21.36
	8H	15.21	15.62	16.29	16.70	18.15	18.50	18.92	19.58	19.99	21.45
	12H	15.18	15.55	16.27	16.64	18.10	18.56	18.93	19.65	20.02	21.48
8H	4H	15.54	15.95	16.61	17.03	18.48	18.15	18.56	19.23	19.64	21.09
	6H	15.79	16.14	16.89	17.25	18.70	18.59	18.93	19.69	20.05	21.50
	8H	15.84	16.14	16.94	17.24	18.71	18.74	19.04	19.85	20.14	21.61
	12H	15.82	16.08	16.93	17.18	18.69	18.84	19.10	19.95	20.20	21.71
12H	4H	15.54	15.91	16.63	17.00	18.46	18.11	18.49	19.21	19.58	21.04
	6H	15.86	16.15	16.96	17.26	18.73	18.58	18.88	19.69	19.98	21.45
	8H	15.92	16.18	17.03	17.28	18.79	18.74	19.01	19.85	20.10	21.61