

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: P936142

Luminaire Tested: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-6-6500K

Issue Date: 12/17/2024

**Test Information**

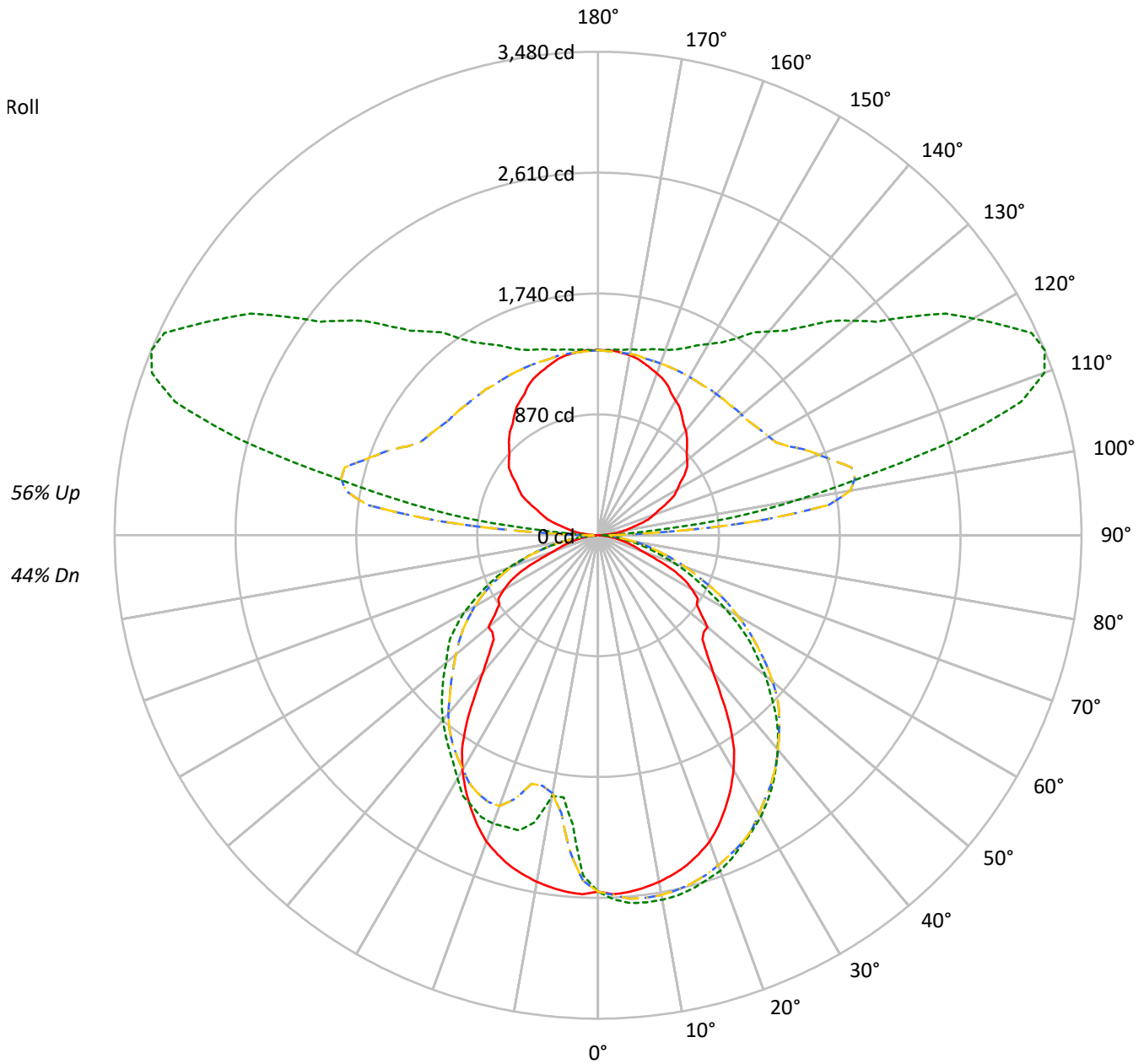
Test Method: LM-79-2019  
Report Number: P936142  
REPORT IS A COMBINATION OF REPORTS P933783 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-6-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15297.2 lumens  
Efficiency: N/A  
Efficacy: 122.6 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 124.8  
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	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°	15869	15869	15869	15869
5°	15982	16019	15982	12596
10°	15869	15780	15869	11281
15°	15691	15438	15691	12891
20°	15357	15033	15357	12918
25°	14679	14442	14679	12644
30°	13805	13952	13805	12044
35°	12301	13331	12301	11383
40°	10244	12601	10244	10884
45°	9147	11747	9147	10310
50°	9711	10727	9711	9733
55°	9127	9629	9127	9400
60°	9398	8177	9398	8610
65°	8506	6760	8506	7557
70°	5875	5387	5875	6334
75°	5133	3982	5133	4769
80°	4108	2632	4108	2866
85°	2313	1395	2313	1185

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 14028 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	231.6	1.5
10°-20°	657.5	4.3
20°-30°	1016.3	6.6
30°-40°	1213.3	7.9
40°-50°	1220.4	8.0
50°-60°	1061.9	6.9
60°-70°	752.9	4.9
70°-80°	398.3	2.6
80°-90°	104.3	0.7
90°-100°	649.8	4.2
100°-110°	1708.2	11.2
110°-120°	1771.2	11.6
120°-130°	1420.7	9.3
130°-140°	1114.8	7.3
140°-150°	855.6	5.6
150°-160°	616.2	4.0
160°-170°	377.0	2.5
170°-180°	127.4	0.8
0°-30°	1905.3	12.5
0°-40°	3118.6	20.4
0°-60°	5400.9	35.3
0°-90°	6656.4	43.5
90°-120°	4129.1	27.0
90°-150°	7520.2	49.2
90°-180°	8641.0	56.5
0°-180°	15297.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2565	2565	2565	2565	2565	
5°	2577	2658	2577	2090	2577	245
15°	2461	2633	2461	2199	2461	692
25°	2167	2456	2167	2150	2167	995
35°	1648	2192	1648	1871	1648	1019
45°	1063	1806	1063	1585	1063	852
55°	866	1332	866	1301	866	796
65°	602	803	602	898	602	575
75°	228	381	228	456	228	240
85°	39	97	39	82	39	52
90°	9	34	9	34	9	9
95°	86	393	86	393	86	95
105°	308	2675	308	2675	308	326
115°	547	3444	547	3444	547	540
125°	760	2743	760	2743	760	675
135°	906	2128	906	2128	906	701
145°	1051	1726	1051	1726	1051	659
155°	1188	1487	1188	1487	1188	546
165°	1282	1385	1282	1385	1282	362
175°	1333	1342	1333	1342	1333	127
180°	1333	1333	1333	1333	1333	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3
2.5°	2587.1	2587.1	2601.7	2606.5	2606.5	2599.2	2592.0	2599.2	2621.1	2628.4	2625.9
5°	2577.4	2596.8	2623.5	2628.4	2633.3	2630.8	2625.9	2630.8	2655.1	2659.9	2662.3
7.5°	2558.0	2594.3	2628.4	2635.7	2642.9	2635.7	2633.3	2638.0	2662.3	2667.2	2667.2
10°	2533.7	2584.7	2623.5	2628.4	2635.7	2628.4	2628.4	2638.0	2662.3	2667.2	2669.6
12.5°	2499.8	2570.2	2606.5	2611.4	2621.1	2618.6	2616.2	2625.9	2650.2	2655.1	2655.1
15°	2461.0	2543.4	2577.4	2582.3	2599.2	2594.3	2594.3	2604.1	2630.8	2638.0	2635.7
17.5°	2407.5	2509.4	2548.3	2555.5	2567.7	2565.3	2567.7	2577.4	2601.7	2606.5	2609.0
20°	2346.9	2463.3	2509.4	2516.7	2528.8	2528.8	2528.8	2541.0	2565.3	2574.9	2574.9
22.5°	2264.4	2414.8	2463.3	2468.2	2482.8	2482.8	2487.6	2504.6	2526.5	2528.8	2528.8
25°	2167.2	2361.4	2402.6	2417.3	2431.8	2439.1	2446.3	2456.1	2463.3	2461.0	2463.3
27.5°	2065.3	2293.4	2346.9	2356.5	2375.9	2383.2	2393.0	2395.4	2397.8	2405.1	2400.2
30°	1951.2	2198.8	2278.9	2288.6	2320.1	2325.0	2315.3	2320.1	2332.3	2337.1	2342.0
32.5°	1822.6	2058.0	2208.5	2230.3	2259.5	2244.9	2242.5	2249.7	2269.1	2269.1	2274.0
35°	1647.9	1948.8	2143.0	2162.4	2184.2	2167.2	2177.0	2179.4	2191.5	2198.8	2196.4
37.5°	1456.2	1854.2	2075.0	2089.6	2106.6	2084.7	2099.3	2106.6	2116.2	2111.5	2111.5
40°	1286.3	1706.1	1994.9	2004.7	2019.2	2002.2	2016.8	2021.7	2026.5	2021.7	2019.2
42.5°	1160.1	1543.5	1910.0	1922.1	1912.4	1924.5	1929.4	1939.2	1931.8	1922.1	1922.1
45°	1063.0	1499.9	1817.7	1832.4	1817.7	1837.2	1844.5	1844.5	1822.6	1817.7	1815.3
47.5°	1031.4	1412.5	1725.5	1725.5	1718.3	1742.6	1754.7	1737.7	1715.8	1708.5	1708.5
50°	1029.1	1315.4	1599.3	1589.7	1623.6	1652.8	1640.6	1623.6	1606.6	1579.9	1579.9
52.5°	934.4	1196.5	1436.8	1473.1	1526.6	1543.5	1524.1	1507.2	1478.0	1465.8	1456.2
55°	866.4	1072.7	1288.7	1361.5	1417.4	1439.2	1402.7	1385.8	1342.1	1334.8	1330.0
57.5°	851.9	893.1	1152.8	1245.1	1312.9	1310.6	1288.7	1257.1	1220.8	1213.5	1211.0
60°	781.5	645.5	1007.2	1116.4	1186.7	1179.5	1160.1	1131.0	1096.9	1092.2	1087.3
62.5°	708.6	468.4	842.1	965.9	1065.4	1063.0	1046.0	1002.3	978.1	965.9	956.2
65°	601.9	393.2	599.4	803.3	946.5	951.3	915.0	883.4	856.7	842.1	839.7
67.5°	458.7	320.3	405.3	669.8	832.5	827.6	781.5	766.9	732.9	725.7	711.1
70°	339.7	213.6	281.5	543.6	720.8	708.6	672.3	655.3	623.7	606.7	597.0
72.5°	281.5	172.3	206.3	422.3	606.7	592.2	560.6	541.2	514.5	500.0	490.2
75°	228.1	182.1	157.8	313.1	492.6	483.0	453.8	434.4	412.6	393.2	395.6
77.5°	167.4	169.9	126.2	230.5	390.7	376.2	359.1	335.0	325.2	305.8	305.8
80°	126.2	133.5	94.7	157.8	281.5	281.5	267.0	249.9	233.0	223.3	223.3
82.5°	84.9	84.9	70.4	99.5	191.7	184.4	174.7	169.9	160.2	155.3	155.3
85°	38.8	48.6	43.7	60.7	104.3	109.2	109.2	104.3	101.9	97.1	99.5
87.5°	12.1	21.8	26.7	33.9	53.4	55.8	58.2	58.2	58.2	60.7	60.7
90°	9.0	16.2	23.2	25.1	39.4	58.4	68.0	60.4	45.3	34.0	34.0
92.5°	35.8	96.6	157.5	172.7	242.8	336.2	382.9	335.5	241.0	170.0	163.2
95°	85.9	197.2	308.6	336.4	597.3	945.2	1119.1	998.6	757.7	577.0	556.5
97.5°	148.5	246.7	344.9	369.5	804.5	1384.7	1674.7	1598.6	1446.2	1332.1	1293.1
100°	196.8	285.9	374.9	397.2	880.0	1523.7	1845.5	1851.1	1862.3	1870.6	1824.2
102.5°	238.0	321.1	404.2	424.9	914.6	1567.4	1893.8	1990.8	2184.8	2330.3	2290.6
105°	307.7	378.1	448.5	466.0	940.2	1572.4	1888.5	2105.9	2540.9	2867.1	2845.7
107.5°	379.3	444.9	510.5	526.9	944.9	1502.4	1781.1	2084.5	2691.2	3146.3	3151.4
110°	427.6	486.9	546.1	560.9	937.8	1440.3	1691.6	2030.8	2709.1	3217.8	3240.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	475.0	531.5	587.9	602.0	938.1	1386.2	1610.2	1957.3	2651.5	3172.2	3206.4
115°	546.6	598.7	650.8	663.8	946.7	1324.0	1512.7	1847.1	2515.8	3017.4	3064.8
117.5°	617.2	664.6	711.9	723.7	964.4	1285.2	1445.7	1747.4	2350.9	2803.6	2856.1
120°	658.4	703.0	747.6	758.6	978.7	1272.1	1418.8	1694.6	2246.0	2659.6	2710.6
122.5°	698.7	743.6	788.6	799.8	999.2	1265.2	1398.2	1646.6	2143.1	2515.6	2565.9
125°	760.4	801.3	842.3	852.5	1027.0	1259.6	1375.9	1586.8	2008.6	2325.0	2371.4
127.5°	810.5	851.8	893.2	903.5	1054.7	1256.2	1357.0	1538.1	1900.3	2172.0	2211.2
130°	837.3	881.9	926.5	937.5	1075.0	1258.3	1350.0	1511.2	1833.6	2075.4	2111.6
132.5°	865.1	909.6	954.2	965.3	1091.4	1259.6	1343.6	1487.9	1776.6	1993.1	2025.5
135°	906.2	946.7	987.4	997.5	1109.3	1258.3	1332.9	1453.8	1695.5	1876.8	1904.7
137.5°	948.3	988.4	1028.6	1038.6	1136.1	1266.1	1331.1	1433.3	1637.7	1790.9	1813.8
140°	983.2	1020.2	1057.1	1066.3	1152.5	1267.4	1324.9	1413.2	1589.7	1722.1	1743.4
142.5°	1009.9	1044.2	1078.4	1086.9	1166.3	1272.0	1324.9	1402.4	1557.4	1673.7	1692.1
145°	1051.1	1081.0	1110.8	1118.3	1184.1	1272.0	1315.9	1379.3	1506.2	1601.3	1615.2
147.5°	1092.3	1121.3	1150.3	1157.6	1210.3	1280.7	1315.9	1365.8	1465.6	1540.4	1552.0
150°	1119.1	1145.3	1171.5	1178.1	1224.0	1285.3	1315.9	1358.1	1442.3	1505.5	1514.9
152.5°	1146.9	1166.7	1186.6	1191.6	1233.0	1288.3	1315.9	1351.9	1423.9	1477.8	1484.9
155°	1188.0	1202.7	1217.4	1221.1	1252.7	1294.9	1315.9	1344.5	1401.8	1444.7	1449.4
157.5°	1218.4	1232.7	1247.1	1250.6	1272.4	1301.4	1315.9	1338.2	1382.8	1416.1	1419.4
160°	1239.0	1250.1	1261.2	1264.0	1281.3	1304.3	1315.9	1335.0	1373.2	1401.8	1403.7
162.5°	1259.6	1267.9	1276.2	1278.3	1290.9	1307.6	1315.9	1332.0	1364.2	1388.4	1390.2
165°	1282.0	1289.5	1297.0	1298.9	1304.5	1312.1	1315.9	1327.5	1350.5	1367.8	1369.7
167.5°	1302.5	1306.1	1309.7	1310.6	1315.3	1321.7	1324.9	1332.5	1347.6	1358.8	1359.6
170°	1315.9	1319.5	1323.1	1323.9	1324.2	1324.7	1324.9	1332.5	1347.6	1358.8	1358.8
172.5°	1323.1	1323.8	1324.7	1324.9	1324.9	1324.9	1324.9	1330.8	1342.8	1351.7	1351.0
175°	1332.9	1332.9	1332.9	1332.9	1330.3	1326.7	1324.9	1328.6	1336.2	1341.8	1341.8
177.5°	1332.9	1332.9	1332.9	1332.9	1330.8	1328.1	1326.6	1329.6	1335.6	1340.1	1339.3
180°	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3
2.5°	2630.8	2623.5	2630.8	2625.9	2628.4	2621.1	2599.2	2592.0	2599.2	2606.5	2606.5
5°	2662.3	2657.5	2662.3	2662.3	2659.9	2655.1	2630.8	2625.9	2630.8	2633.3	2628.4
7.5°	2672.1	2664.8	2672.1	2667.2	2667.2	2662.3	2638.0	2633.3	2635.7	2642.9	2635.7
10°	2672.1	2664.8	2672.1	2669.6	2667.2	2662.3	2638.0	2628.4	2628.4	2635.7	2628.4
12.5°	2659.9	2655.1	2659.9	2655.1	2655.1	2650.2	2625.9	2616.2	2618.6	2621.1	2611.4
15°	2640.5	2633.3	2640.5	2635.7	2638.0	2630.8	2604.1	2594.3	2594.3	2599.2	2582.3
17.5°	2611.4	2601.7	2611.4	2609.0	2606.5	2601.7	2577.4	2567.7	2565.3	2567.7	2555.5
20°	2577.4	2570.2	2577.4	2574.9	2574.9	2565.3	2541.0	2528.8	2528.8	2528.8	2516.7
22.5°	2524.0	2516.7	2524.0	2528.8	2528.8	2526.5	2504.6	2487.6	2482.8	2482.8	2468.2
25°	2463.3	2456.1	2463.3	2463.3	2461.0	2463.3	2456.1	2446.3	2439.1	2431.8	2417.3
27.5°	2405.1	2400.2	2405.1	2400.2	2405.1	2397.8	2395.4	2393.0	2383.2	2375.9	2356.5
30°	2346.9	2342.0	2346.9	2342.0	2337.1	2332.3	2320.1	2315.3	2325.0	2320.1	2288.6
32.5°	2274.0	2269.1	2274.0	2274.0	2269.1	2269.1	2249.7	2242.5	2244.9	2259.5	2230.3
35°	2198.8	2191.5	2198.8	2196.4	2198.8	2191.5	2179.4	2177.0	2167.2	2184.2	2162.4
37.5°	2111.5	2104.1	2111.5	2111.5	2111.5	2116.2	2106.6	2099.3	2084.7	2106.6	2089.6
40°	2021.7	2011.9	2021.7	2019.2	2021.7	2026.5	2021.7	2016.8	2002.2	2019.2	2004.7
42.5°	1919.7	1917.3	1919.7	1922.1	1922.1	1931.8	1939.2	1929.4	1924.5	1912.4	1922.1
45°	1810.5	1805.7	1810.5	1815.3	1817.7	1822.6	1844.5	1844.5	1837.2	1817.7	1832.4
47.5°	1694.0	1681.8	1694.0	1708.5	1708.5	1715.8	1737.7	1754.7	1742.6	1718.3	1725.5
50°	1570.3	1572.7	1570.3	1579.9	1579.9	1606.6	1623.6	1640.6	1652.8	1623.6	1589.7
52.5°	1448.9	1446.4	1448.9	1456.2	1465.8	1478.0	1507.2	1524.1	1543.5	1526.6	1473.1
55°	1327.5	1332.4	1327.5	1330.0	1334.8	1342.1	1385.8	1402.7	1439.2	1417.4	1361.5
57.5°	1206.1	1198.9	1206.1	1211.0	1213.5	1220.8	1257.1	1288.7	1310.6	1312.9	1245.1
60°	1065.4	1055.7	1065.4	1087.3	1092.2	1096.9	1131.0	1160.1	1179.5	1186.7	1116.4
62.5°	941.7	924.6	941.7	956.2	965.9	978.1	1002.3	1046.0	1063.0	1065.4	965.9
65°	810.6	803.3	810.6	839.7	842.1	856.7	883.4	915.0	951.3	946.5	803.3
67.5°	691.7	691.7	691.7	711.1	725.7	732.9	766.9	781.5	827.6	832.5	669.8
70°	582.4	580.0	582.4	597.0	606.7	623.7	655.3	672.3	708.6	720.8	543.6
72.5°	478.1	475.7	478.1	490.2	500.0	514.5	541.2	560.6	592.2	606.7	422.3
75°	385.9	381.0	385.9	395.6	393.2	412.6	434.4	453.8	483.0	492.6	313.1
77.5°	296.1	296.1	296.1	305.8	305.8	325.2	335.0	359.1	376.2	390.7	230.5
80°	220.9	218.4	220.9	223.3	223.3	233.0	249.9	267.0	281.5	281.5	157.8
82.5°	155.3	150.5	155.3	155.3	155.3	160.2	169.9	174.7	184.4	191.7	99.5
85°	97.1	97.1	97.1	99.5	97.1	101.9	104.3	109.2	109.2	104.3	60.7
87.5°	63.1	60.7	63.1	60.7	60.7	58.2	58.2	58.2	55.8	53.4	33.9
90°	34.0	34.0	34.0	34.0	34.0	45.3	60.4	68.0	58.4	39.4	25.1
92.5°	136.2	109.1	136.2	163.2	170.0	241.0	335.5	382.9	336.2	242.8	172.7
95°	474.6	392.7	474.6	556.5	577.0	757.7	998.6	1119.1	945.2	597.3	336.4
97.5°	1137.2	981.3	1137.2	1293.1	1332.1	1446.2	1598.6	1674.7	1384.7	804.5	369.5
100°	1638.5	1452.8	1638.5	1824.2	1870.6	1862.3	1851.1	1845.5	1523.7	880.0	397.2
102.5°	2131.5	1972.5	2131.5	2290.6	2330.3	2184.8	1990.8	1893.8	1567.4	914.6	424.9
105°	2760.2	2674.8	2760.2	2845.7	2867.1	2540.9	2105.9	1888.5	1572.4	940.2	466.0
107.5°	3172.1	3192.7	3172.1	3151.4	3146.3	2691.2	2084.5	1781.1	1502.4	944.9	526.9
110°	3329.1	3418.2	3329.1	3240.1	3217.8	2709.1	2030.8	1691.6	1440.3	937.8	560.9





TEST NUMBER: P936142

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3343.1	3479.9	3343.1	3206.4	3172.2	2651.5	1957.3	1610.2	1386.2	938.1	602.0
115°	3254.4	3444.1	3254.4	3064.8	3017.4	2515.8	1847.1	1512.7	1324.0	946.7	663.8
117.5°	3066.5	3276.9	3066.5	2856.1	2803.6	2350.9	1747.4	1445.7	1285.2	964.4	723.7
120°	2915.0	3119.4	2915.0	2710.6	2659.6	2246.0	1694.6	1418.8	1272.1	978.7	758.6
122.5°	2767.5	2969.1	2767.5	2565.9	2515.6	2143.1	1646.6	1398.2	1265.2	999.2	799.8
125°	2557.1	2742.7	2557.1	2371.4	2325.0	2008.6	1586.8	1375.9	1259.6	1027.0	852.5
127.5°	2367.8	2524.5	2367.8	2211.2	2172.0	1900.3	1538.1	1357.0	1256.2	1054.7	903.5
130°	2256.3	2401.0	2256.3	2111.6	2075.4	1833.6	1511.2	1350.0	1258.3	1075.0	937.5
132.5°	2155.1	2284.7	2155.1	2025.5	1993.1	1776.6	1487.9	1343.6	1259.6	1091.4	965.3
135°	2016.5	2128.2	2016.5	1904.7	1876.8	1695.5	1453.8	1332.9	1258.3	1109.3	997.5
137.5°	1905.3	1996.7	1905.3	1813.8	1790.9	1637.7	1433.3	1331.1	1266.1	1136.1	1038.6
140°	1828.9	1914.4	1828.9	1743.4	1722.1	1589.7	1413.2	1324.9	1267.4	1152.5	1066.3
142.5°	1765.7	1839.2	1765.7	1692.1	1673.7	1557.4	1402.4	1324.9	1272.0	1166.3	1086.9
145°	1670.9	1726.5	1670.9	1615.2	1601.3	1506.2	1379.3	1315.9	1272.0	1184.1	1118.3
147.5°	1598.1	1644.3	1598.1	1552.0	1540.4	1465.6	1365.8	1315.9	1280.7	1210.3	1157.6
150°	1552.3	1589.7	1552.3	1514.9	1505.5	1442.3	1358.1	1315.9	1285.3	1224.0	1178.1
152.5°	1513.1	1541.4	1513.1	1484.9	1477.8	1423.9	1351.9	1315.9	1288.3	1233.0	1191.6
155°	1468.0	1486.8	1468.0	1449.4	1444.7	1401.8	1344.5	1315.9	1294.9	1252.7	1221.1
157.5°	1432.6	1445.7	1432.6	1419.4	1416.1	1382.8	1338.2	1315.9	1301.4	1272.4	1250.6
160°	1411.2	1418.8	1411.2	1403.7	1401.8	1373.2	1335.0	1315.9	1304.3	1281.3	1264.0
162.5°	1397.3	1404.5	1397.3	1390.2	1388.4	1364.2	1332.0	1315.9	1307.6	1290.9	1278.3
165°	1377.2	1384.8	1377.2	1369.7	1367.8	1350.5	1327.5	1315.9	1312.1	1304.5	1298.9
167.5°	1362.9	1366.0	1362.9	1359.6	1358.8	1347.6	1332.5	1324.9	1321.7	1315.3	1310.6
170°	1358.8	1358.8	1358.8	1358.8	1358.8	1347.6	1332.5	1324.9	1324.7	1324.2	1323.9
172.5°	1348.2	1345.5	1348.2	1351.0	1351.7	1342.8	1330.8	1324.9	1324.9	1324.9	1324.9
175°	1341.8	1341.8	1341.8	1341.8	1341.8	1336.2	1328.6	1324.9	1326.7	1330.3	1332.9
177.5°	1336.1	1332.9	1336.1	1339.3	1340.1	1335.6	1329.6	1326.6	1328.1	1330.8	1332.9
180°	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9



TEST NUMBER: P936142

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3
2.5°	2601.7	2587.1	2587.1	2562.9	2553.1	2545.9	2533.7	2497.3	2487.6	2477.9	2492.4
5°	2623.5	2596.8	2577.4	2533.7	2497.3	2482.8	2436.7	2349.3	2291.0	2247.3	2223.1
7.5°	2628.4	2594.3	2558.0	2490.0	2402.6	2363.8	2223.1	2062.9	2019.2	1980.4	1956.1
10°	2623.5	2584.7	2533.7	2431.8	2225.5	2157.6	2016.8	1912.4	1885.7	1878.4	1885.7
12.5°	2606.5	2570.2	2499.8	2329.9	2041.1	1994.9	1912.4	1851.8	1846.9	1859.0	1924.5
15°	2577.4	2543.4	2461.0	2194.0	1939.2	1905.1	1846.9	1825.1	1851.8	1936.7	2133.3
17.5°	2548.3	2509.4	2407.5	2060.5	1861.4	1837.2	1795.9	1839.6	1990.1	2104.1	2169.7
20°	2509.4	2463.3	2346.9	1963.4	1805.7	1783.8	1764.4	1961.0	2075.0	2116.2	2152.7
22.5°	2463.3	2414.8	2264.4	1895.5	1747.3	1730.4	1742.6	2028.9	2075.0	2104.1	2135.7
25°	2402.6	2361.4	2167.2	1842.0	1701.3	1681.8	1727.9	2021.7	2048.4	2055.6	2118.7
27.5°	2346.9	2293.4	2065.3	1793.5	1645.4	1638.1	1740.1	1990.1	2009.5	2016.8	2084.7
30°	2278.9	2198.8	1951.2	1742.6	1587.2	1584.8	1742.6	1951.2	1946.4	1965.8	2033.7
32.5°	2208.5	2058.0	1822.6	1679.5	1531.4	1529.0	1725.5	1893.0	1888.2	1914.9	1965.8
35°	2143.0	1948.8	1647.9	1606.6	1461.0	1463.5	1684.3	1825.1	1827.5	1851.8	1883.3
37.5°	2075.0	1854.2	1456.2	1526.6	1393.1	1393.1	1628.5	1762.0	1757.1	1764.4	1808.1
40°	1994.9	1706.1	1286.3	1422.1	1330.0	1322.7	1560.5	1694.0	1677.0	1674.6	1735.3
42.5°	1910.0	1543.5	1160.1	1283.9	1257.1	1247.4	1478.0	1611.5	1579.9	1587.2	1664.8
45°	1817.7	1499.9	1063.0	1084.8	1182.0	1174.6	1388.2	1516.8	1495.0	1514.4	1594.5
47.5°	1725.5	1412.5	1031.4	900.4	1101.8	1099.4	1288.7	1424.6	1412.5	1431.9	1516.8
50°	1599.3	1315.4	1029.1	771.7	1012.0	1021.7	1169.8	1334.8	1334.8	1351.8	1441.6
52.5°	1436.8	1196.5	934.4	699.0	907.7	936.8	1065.4	1257.1	1262.0	1279.0	1359.0
55°	1288.7	1072.7	866.4	643.1	783.9	847.0	963.5	1177.1	1186.7	1203.8	1276.5
57.5°	1152.8	893.1	851.9	577.6	669.8	730.5	873.7	1099.4	1104.2	1118.8	1189.2
60°	1007.2	645.5	781.5	507.3	570.4	616.5	791.2	1007.2	1024.2	1033.8	1094.6
62.5°	842.1	468.4	708.6	458.7	521.8	531.5	723.3	919.8	941.7	948.9	985.4
65°	599.4	393.2	601.9	417.5	470.8	473.2	650.4	830.0	849.4	861.5	888.3
67.5°	405.3	320.3	458.7	378.6	432.0	434.4	580.0	725.7	752.3	762.1	779.0
70°	281.5	213.6	339.7	337.3	388.3	393.2	504.8	631.0	655.3	662.5	672.3
72.5°	206.3	172.3	281.5	303.4	342.2	347.1	427.1	524.2	548.5	555.7	560.6
75°	157.8	182.1	228.1	264.6	291.3	293.6	349.5	427.1	444.2	449.0	451.4
77.5°	126.2	169.9	167.4	213.6	237.8	233.0	274.2	330.1	344.6	344.6	344.6
80°	94.7	133.5	126.2	152.9	174.7	169.9	196.6	235.4	240.3	245.1	242.7
82.5°	70.4	84.9	84.9	97.1	116.5	111.7	131.1	152.9	152.9	152.9	157.8
85°	43.7	48.6	38.8	51.0	65.5	63.1	72.8	82.5	84.9	84.9	80.1
87.5°	26.7	21.8	12.1	19.4	29.2	29.2	33.9	36.4	33.9	33.9	33.9
90°	23.2	16.2	9.0	16.2	23.2	25.1	39.4	58.4	68.0	60.4	45.3
92.5°	157.5	96.6	35.8	96.6	157.5	172.7	242.8	336.2	382.9	335.5	241.0
95°	308.6	197.2	85.9	197.2	308.6	336.4	597.3	945.2	1119.1	998.6	757.7
97.5°	344.9	246.7	148.5	246.7	344.9	369.5	804.5	1384.7	1674.7	1598.6	1446.2
100°	374.9	285.9	196.8	285.9	374.9	397.2	880.0	1523.7	1845.5	1851.1	1862.3
102.5°	404.2	321.1	238.0	321.1	404.2	424.9	914.6	1567.4	1893.8	1990.8	2184.8
105°	448.5	378.1	307.7	378.1	448.5	466.0	940.2	1572.4	1888.5	2105.9	2540.9
107.5°	510.5	444.9	379.3	444.9	510.5	526.9	944.9	1502.4	1781.1	2084.5	2691.2
110°	546.1	486.9	427.6	486.9	546.1	560.9	937.8	1440.3	1691.6	2030.8	2709.1



TEST NUMBER: P936142

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	587.9	531.5	475.0	531.5	587.9	602.0	938.1	1386.2	1610.2	1957.3	2651.5
115°	650.8	598.7	546.6	598.7	650.8	663.8	946.7	1324.0	1512.7	1847.1	2515.8
117.5°	711.9	664.6	617.2	664.6	711.9	723.7	964.4	1285.2	1445.7	1747.4	2350.9
120°	747.6	703.0	658.4	703.0	747.6	758.6	978.7	1272.1	1418.8	1694.6	2246.0
122.5°	788.6	743.6	698.7	743.6	788.6	799.8	999.2	1265.2	1398.2	1646.6	2143.1
125°	842.3	801.3	760.4	801.3	842.3	852.5	1027.0	1259.6	1375.9	1586.8	2008.6
127.5°	893.2	851.8	810.5	851.8	893.2	903.5	1054.7	1256.2	1357.0	1538.1	1900.3
130°	926.5	881.9	837.3	881.9	926.5	937.5	1075.0	1258.3	1350.0	1511.2	1833.6
132.5°	954.2	909.6	865.1	909.6	954.2	965.3	1091.4	1259.6	1343.6	1487.9	1776.6
135°	987.4	946.7	906.2	946.7	987.4	997.5	1109.3	1258.3	1332.9	1453.8	1695.5
137.5°	1028.6	988.4	948.3	988.4	1028.6	1038.6	1136.1	1266.1	1331.1	1433.3	1637.7
140°	1057.1	1020.2	983.2	1020.2	1057.1	1066.3	1152.5	1267.4	1324.9	1413.2	1589.7
142.5°	1078.4	1044.2	1009.9	1044.2	1078.4	1086.9	1166.3	1272.0	1324.9	1402.4	1557.4
145°	1110.8	1081.0	1051.1	1081.0	1110.8	1118.3	1184.1	1272.0	1315.9	1379.3	1506.2
147.5°	1150.3	1121.3	1092.3	1121.3	1150.3	1157.6	1210.3	1280.7	1315.9	1365.8	1465.6
150°	1171.5	1145.3	1119.1	1145.3	1171.5	1178.1	1224.0	1285.3	1315.9	1358.1	1442.3
152.5°	1186.6	1166.7	1146.9	1166.7	1186.6	1191.6	1233.0	1288.3	1315.9	1351.9	1423.9
155°	1217.4	1202.7	1188.0	1202.7	1217.4	1221.1	1252.7	1294.9	1315.9	1344.5	1401.8
157.5°	1247.1	1232.7	1218.4	1232.7	1247.1	1250.6	1272.4	1301.4	1315.9	1338.2	1382.8
160°	1261.2	1250.1	1239.0	1250.1	1261.2	1264.0	1281.3	1304.3	1315.9	1335.0	1373.2
162.5°	1276.2	1267.9	1259.6	1267.9	1276.2	1278.3	1290.9	1307.6	1315.9	1332.0	1364.2
165°	1297.0	1289.5	1282.0	1289.5	1297.0	1298.9	1304.5	1312.1	1315.9	1327.5	1350.5
167.5°	1309.7	1306.1	1302.5	1306.1	1309.7	1310.6	1315.3	1321.7	1324.9	1332.5	1347.6
170°	1323.1	1319.5	1315.9	1319.5	1323.1	1323.9	1324.2	1324.7	1324.9	1332.5	1347.6
172.5°	1324.7	1323.8	1323.1	1323.8	1324.7	1324.9	1324.9	1324.9	1324.9	1330.8	1342.8
175°	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1330.3	1326.7	1324.9	1328.6	1336.2
177.5°	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1330.8	1328.1	1326.6	1329.6	1335.6
180°	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9



TEST NUMBER: P936142

CATALOG NUMBER: SQ4-FA-150U-125D-92765-1D-UNV-STD-W-6-6500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3	2565.3
2.5°	2475.5	2468.2	2477.9	2451.2	2477.9	2468.2	2475.5	2492.4	2477.9	2487.6	2497.3
5°	2172.1	2159.9	2121.1	2089.6	2121.1	2159.9	2172.1	2223.1	2247.3	2291.0	2349.3
7.5°	1941.5	1931.8	1922.1	1902.7	1922.1	1931.8	1941.5	1956.1	1980.4	2019.2	2062.9
10°	1890.6	1893.0	1907.6	1905.1	1907.6	1893.0	1890.6	1885.7	1878.4	1885.7	1912.4
12.5°	2021.7	2043.5	2123.6	2118.7	2123.6	2043.5	2021.7	1924.5	1859.0	1846.9	1851.8
15°	2172.1	2179.4	2196.4	2198.8	2196.4	2179.4	2172.1	2133.3	1936.7	1851.8	1825.1
17.5°	2186.6	2189.1	2201.3	2201.3	2201.3	2189.1	2186.6	2169.7	2104.1	1990.1	1839.6
20°	2174.6	2179.4	2203.6	2208.5	2203.6	2179.4	2174.6	2152.7	2116.2	2075.0	1961.0
22.5°	2169.7	2179.4	2198.8	2196.4	2198.8	2179.4	2169.7	2135.7	2104.1	2075.0	2028.9
25°	2145.4	2145.4	2147.8	2150.3	2147.8	2145.4	2145.4	2118.7	2055.6	2048.4	2021.7
27.5°	2094.4	2099.3	2113.9	2111.5	2113.9	2099.3	2094.4	2084.7	2016.8	2009.5	1990.1
30°	2048.4	2043.5	2031.3	2021.7	2031.3	2043.5	2048.4	2033.7	1965.8	1946.4	1951.2
32.5°	1970.7	1958.6	1946.4	1939.2	1946.4	1958.6	1970.7	1965.8	1914.9	1888.2	1893.0
35°	1878.4	1880.8	1878.4	1871.2	1878.4	1880.8	1878.4	1883.3	1851.8	1827.5	1825.1
37.5°	1812.9	1817.7	1815.3	1805.7	1815.3	1817.7	1812.9	1808.1	1764.4	1757.1	1762.0
40°	1745.0	1747.3	1745.0	1737.7	1745.0	1747.3	1745.0	1735.3	1674.6	1677.0	1694.0
42.5°	1679.5	1677.0	1669.7	1664.8	1669.7	1677.0	1679.5	1664.8	1587.2	1579.9	1611.5
45°	1604.2	1606.6	1592.1	1584.8	1592.1	1606.6	1604.2	1594.5	1514.4	1495.0	1516.8
47.5°	1529.0	1529.0	1516.8	1509.5	1516.8	1529.0	1529.0	1516.8	1431.9	1412.5	1424.6
50°	1448.9	1446.4	1429.5	1427.0	1429.5	1446.4	1448.9	1441.6	1351.8	1334.8	1334.8
52.5°	1356.6	1356.6	1359.0	1363.9	1359.0	1356.6	1356.6	1359.0	1279.0	1262.0	1257.1
55°	1276.5	1279.0	1296.0	1300.8	1296.0	1279.0	1276.5	1276.5	1203.8	1186.7	1177.1
57.5°	1194.1	1194.1	1206.1	1206.1	1206.1	1194.1	1194.1	1189.2	1118.8	1104.2	1099.4
60°	1099.4	1104.2	1114.0	1111.6	1114.0	1104.2	1099.4	1094.6	1033.8	1024.2	1007.2
62.5°	999.9	1004.8	1007.2	1002.3	1007.2	1004.8	999.9	985.4	948.9	941.7	919.8
65°	895.6	900.4	902.8	898.0	902.8	900.4	895.6	888.3	861.5	849.4	830.0
67.5°	788.8	786.3	783.9	793.6	783.9	786.3	788.8	779.0	762.1	752.3	725.7
70°	679.6	679.6	677.1	682.0	677.1	679.6	679.6	672.3	662.5	655.3	631.0
72.5°	563.0	560.6	570.4	563.0	570.4	560.6	563.0	560.6	555.7	548.5	524.2
75°	449.0	453.8	449.0	456.3	449.0	453.8	449.0	451.4	449.0	444.2	427.1
77.5°	342.2	347.1	342.2	342.2	342.2	347.1	342.2	344.6	344.6	344.6	330.1
80°	242.7	240.3	240.3	237.8	240.3	240.3	242.7	242.7	245.1	240.3	235.4
82.5°	155.3	152.9	152.9	157.8	152.9	152.9	155.3	157.8	152.9	152.9	152.9
85°	84.9	87.4	82.5	82.5	82.5	87.4	84.9	80.1	84.9	84.9	82.5
87.5°	31.6	29.2	29.2	29.2	29.2	29.2	31.6	33.9	33.9	33.9	36.4
90°	34.0	34.0	34.0	34.0	34.0	34.0	34.0	45.3	60.4	68.0	58.4
92.5°	170.0	163.2	136.2	109.1	136.2	163.2	170.0	241.0	335.5	382.9	336.2
95°	577.0	556.5	474.6	392.7	474.6	556.5	577.0	757.7	998.6	1119.1	945.2
97.5°	1332.1	1293.1	1137.2	981.3	1137.2	1293.1	1332.1	1446.2	1598.6	1674.7	1384.7
100°	1870.6	1824.2	1638.5	1452.8	1638.5	1824.2	1870.6	1862.3	1851.1	1845.5	1523.7
102.5°	2330.3	2290.6	2131.5	1972.5	2131.5	2290.6	2330.3	2184.8	1990.8	1893.8	1567.4
105°	2867.1	2845.7	2760.2	2674.8	2760.2	2845.7	2867.1	2540.9	2105.9	1888.5	1572.4
107.5°	3146.3	3151.4	3172.1	3192.7	3172.1	3151.4	3146.3	2691.2	2084.5	1781.1	1502.4
110°	3217.8	3240.1	3329.1	3418.2	3329.1	3240.1	3217.8	2709.1	2030.8	1691.6	1440.3



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3172.2	3206.4	3343.1	3479.9	3343.1	3206.4	3172.2	2651.5	1957.3	1610.2	1386.2
115°	3017.4	3064.8	3254.4	3444.1	3254.4	3064.8	3017.4	2515.8	1847.1	1512.7	1324.0
117.5°	2803.6	2856.1	3066.5	3276.9	3066.5	2856.1	2803.6	2350.9	1747.4	1445.7	1285.2
120°	2659.6	2710.6	2915.0	3119.4	2915.0	2710.6	2659.6	2246.0	1694.6	1418.8	1272.1
122.5°	2515.6	2565.9	2767.5	2969.1	2767.5	2565.9	2515.6	2143.1	1646.6	1398.2	1265.2
125°	2325.0	2371.4	2557.1	2742.7	2557.1	2371.4	2325.0	2008.6	1586.8	1375.9	1259.6
127.5°	2172.0	2211.2	2367.8	2524.5	2367.8	2211.2	2172.0	1900.3	1538.1	1357.0	1256.2
130°	2075.4	2111.6	2256.3	2401.0	2256.3	2111.6	2075.4	1833.6	1511.2	1350.0	1258.3
132.5°	1993.1	2025.5	2155.1	2284.7	2155.1	2025.5	1993.1	1776.6	1487.9	1343.6	1259.6
135°	1876.8	1904.7	2016.5	2128.2	2016.5	1904.7	1876.8	1695.5	1453.8	1332.9	1258.3
137.5°	1790.9	1813.8	1905.3	1996.7	1905.3	1813.8	1790.9	1637.7	1433.3	1331.1	1266.1
140°	1722.1	1743.4	1828.9	1914.4	1828.9	1743.4	1722.1	1589.7	1413.2	1324.9	1267.4
142.5°	1673.7	1692.1	1765.7	1839.2	1765.7	1692.1	1673.7	1557.4	1402.4	1324.9	1272.0
145°	1601.3	1615.2	1670.9	1726.5	1670.9	1615.2	1601.3	1506.2	1379.3	1315.9	1272.0
147.5°	1540.4	1552.0	1598.1	1644.3	1598.1	1552.0	1540.4	1465.6	1365.8	1315.9	1280.7
150°	1505.5	1514.9	1552.3	1589.7	1552.3	1514.9	1505.5	1442.3	1358.1	1315.9	1285.3
152.5°	1477.8	1484.9	1513.1	1541.4	1513.1	1484.9	1477.8	1423.9	1351.9	1315.9	1288.3
155°	1444.7	1449.4	1468.0	1486.8	1468.0	1449.4	1444.7	1401.8	1344.5	1315.9	1294.9
157.5°	1416.1	1419.4	1432.6	1445.7	1432.6	1419.4	1416.1	1382.8	1338.2	1315.9	1301.4
160°	1401.8	1403.7	1411.2	1418.8	1411.2	1403.7	1401.8	1373.2	1335.0	1315.9	1304.3
162.5°	1388.4	1390.2	1397.3	1404.5	1397.3	1390.2	1388.4	1364.2	1332.0	1315.9	1307.6
165°	1367.8	1369.7	1377.2	1384.8	1377.2	1369.7	1367.8	1350.5	1327.5	1315.9	1312.1
167.5°	1358.8	1359.6	1362.9	1366.0	1362.9	1359.6	1358.8	1347.6	1332.5	1324.9	1321.7
170°	1358.8	1358.8	1358.8	1358.8	1358.8	1358.8	1358.8	1347.6	1332.5	1324.9	1324.7
172.5°	1351.7	1351.0	1348.2	1345.5	1348.2	1351.0	1351.7	1342.8	1330.8	1324.9	1324.9
175°	1341.8	1341.8	1341.8	1341.8	1341.8	1341.8	1341.8	1336.2	1328.6	1324.9	1326.7
177.5°	1340.1	1339.3	1336.1	1332.9	1336.1	1339.3	1340.1	1335.6	1329.6	1326.6	1328.1
180°	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9	1332.9



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2565.3	2565.3	2565.3	2565.3	2565.3
2.5°	2533.7	2545.9	2553.1	2562.9	2587.1
5°	2436.7	2482.8	2497.3	2533.7	2577.4
7.5°	2223.1	2363.8	2402.6	2490.0	2558.0
10°	2016.8	2157.6	2225.5	2431.8	2533.7
12.5°	1912.4	1994.9	2041.1	2329.9	2499.8
15°	1846.9	1905.1	1939.2	2194.0	2461.0
17.5°	1795.9	1837.2	1861.4	2060.5	2407.5
20°	1764.4	1783.8	1805.7	1963.4	2346.9
22.5°	1742.6	1730.4	1747.3	1895.5	2264.4
25°	1727.9	1681.8	1701.3	1842.0	2167.2
27.5°	1740.1	1638.1	1645.4	1793.5	2065.3
30°	1742.6	1584.8	1587.2	1742.6	1951.2
32.5°	1725.5	1529.0	1531.4	1679.5	1822.6
35°	1684.3	1463.5	1461.0	1606.6	1647.9
37.5°	1628.5	1393.1	1393.1	1526.6	1456.2
40°	1560.5	1322.7	1330.0	1422.1	1286.3
42.5°	1478.0	1247.4	1257.1	1283.9	1160.1
45°	1388.2	1174.6	1182.0	1084.8	1063.0
47.5°	1288.7	1099.4	1101.8	900.4	1031.4
50°	1169.8	1021.7	1012.0	771.7	1029.1
52.5°	1065.4	936.8	907.7	699.0	934.4
55°	963.5	847.0	783.9	643.1	866.4
57.5°	873.7	730.5	669.8	577.6	851.9
60°	791.2	616.5	570.4	507.3	781.5
62.5°	723.3	531.5	521.8	458.7	708.6
65°	650.4	473.2	470.8	417.5	601.9
67.5°	580.0	434.4	432.0	378.6	458.7
70°	504.8	393.2	388.3	337.3	339.7
72.5°	427.1	347.1	342.2	303.4	281.5
75°	349.5	293.6	291.3	264.6	228.1
77.5°	274.2	233.0	237.8	213.6	167.4
80°	196.6	169.9	174.7	152.9	126.2
82.5°	131.1	111.7	116.5	97.1	84.9
85°	72.8	63.1	65.5	51.0	38.8
87.5°	33.9	29.2	29.2	19.4	12.1
90°	39.4	25.1	23.2	16.2	9.0
92.5°	242.8	172.7	157.5	96.6	35.8
95°	597.3	336.4	308.6	197.2	85.9
97.5°	804.5	369.5	344.9	246.7	148.5
100°	880.0	397.2	374.9	285.9	196.8
102.5°	914.6	424.9	404.2	321.1	238.0
105°	940.2	466.0	448.5	378.1	307.7
107.5°	944.9	526.9	510.5	444.9	379.3
110°	937.8	560.9	546.1	486.9	427.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	938.1	602.0	587.9	531.5	475.0
115°	946.7	663.8	650.8	598.7	546.6
117.5°	964.4	723.7	711.9	664.6	617.2
120°	978.7	758.6	747.6	703.0	658.4
122.5°	999.2	799.8	788.6	743.6	698.7
125°	1027.0	852.5	842.3	801.3	760.4
127.5°	1054.7	903.5	893.2	851.8	810.5
130°	1075.0	937.5	926.5	881.9	837.3
132.5°	1091.4	965.3	954.2	909.6	865.1
135°	1109.3	997.5	987.4	946.7	906.2
137.5°	1136.1	1038.6	1028.6	988.4	948.3
140°	1152.5	1066.3	1057.1	1020.2	983.2
142.5°	1166.3	1086.9	1078.4	1044.2	1009.9
145°	1184.1	1118.3	1110.8	1081.0	1051.1
147.5°	1210.3	1157.6	1150.3	1121.3	1092.3
150°	1224.0	1178.1	1171.5	1145.3	1119.1
152.5°	1233.0	1191.6	1186.6	1166.7	1146.9
155°	1252.7	1221.1	1217.4	1202.7	1188.0
157.5°	1272.4	1250.6	1247.1	1232.7	1218.4
160°	1281.3	1264.0	1261.2	1250.1	1239.0
162.5°	1290.9	1278.3	1276.2	1267.9	1259.6
165°	1304.5	1298.9	1297.0	1289.5	1282.0
167.5°	1315.3	1310.6	1309.7	1306.1	1302.5
170°	1324.2	1323.9	1323.1	1319.5	1315.9
172.5°	1324.9	1324.9	1324.7	1323.8	1323.1
175°	1330.3	1332.9	1332.9	1332.9	1332.9
177.5°	1330.8	1332.9	1332.9	1332.9	1332.9
180°	1332.9	1332.9	1332.9	1332.9	1332.9



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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	13.78	14.58	14.79	15.60	16.96	16.60	17.41	17.61	18.43	19.79
	3H	14.25	14.97	15.27	16.00	17.38	17.94	18.66	18.96	19.69	21.07
	4H	14.44	15.12	15.47	16.15	17.54	18.38	19.06	19.41	20.10	21.48
	6H	14.55	15.18	15.60	16.22	17.62	18.66	19.29	19.70	20.33	21.73
	8H	14.55	15.15	15.60	16.21	17.60	18.73	19.33	19.78	20.39	21.78
	12H	14.52	15.09	15.58	16.14	17.56	18.77	19.34	19.82	20.39	21.81
4H	2H	14.80	15.48	15.84	16.52	17.91	17.00	17.69	18.04	18.72	20.11
	3H	15.82	16.39	16.87	17.45	18.85	18.50	19.07	19.55	20.13	21.53
	4H	16.10	16.62	17.15	17.67	19.09	19.03	19.55	20.08	20.60	22.02
	6H	16.22	16.67	17.28	17.74	19.16	19.39	19.84	20.45	20.91	22.33
	8H	16.22	16.64	17.29	17.71	19.14	19.49	19.91	20.56	20.98	22.41
	12H	16.19	16.57	17.27	17.65	19.09	19.54	19.92	20.63	21.00	22.44
8H	4H	16.54	16.96	17.61	18.03	19.47	19.15	19.57	20.21	20.63	22.07
	6H	16.80	17.15	17.89	18.26	19.69	19.58	19.93	20.67	21.03	22.47
	8H	16.85	17.15	17.94	18.24	19.69	19.73	20.03	20.83	21.13	22.58
	12H	16.83	17.09	17.93	18.18	19.67	19.82	20.09	20.92	21.18	22.67
12H	4H	16.55	16.93	17.63	18.01	19.45	19.11	19.49	20.19	20.57	22.01
	6H	16.86	17.17	17.96	18.26	19.71	19.58	19.88	20.67	20.97	22.42
	8H	16.93	17.19	18.03	18.28	19.77	19.73	20.00	20.83	21.09	22.58