

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: P935667

Luminaire Tested: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

**Test Information**

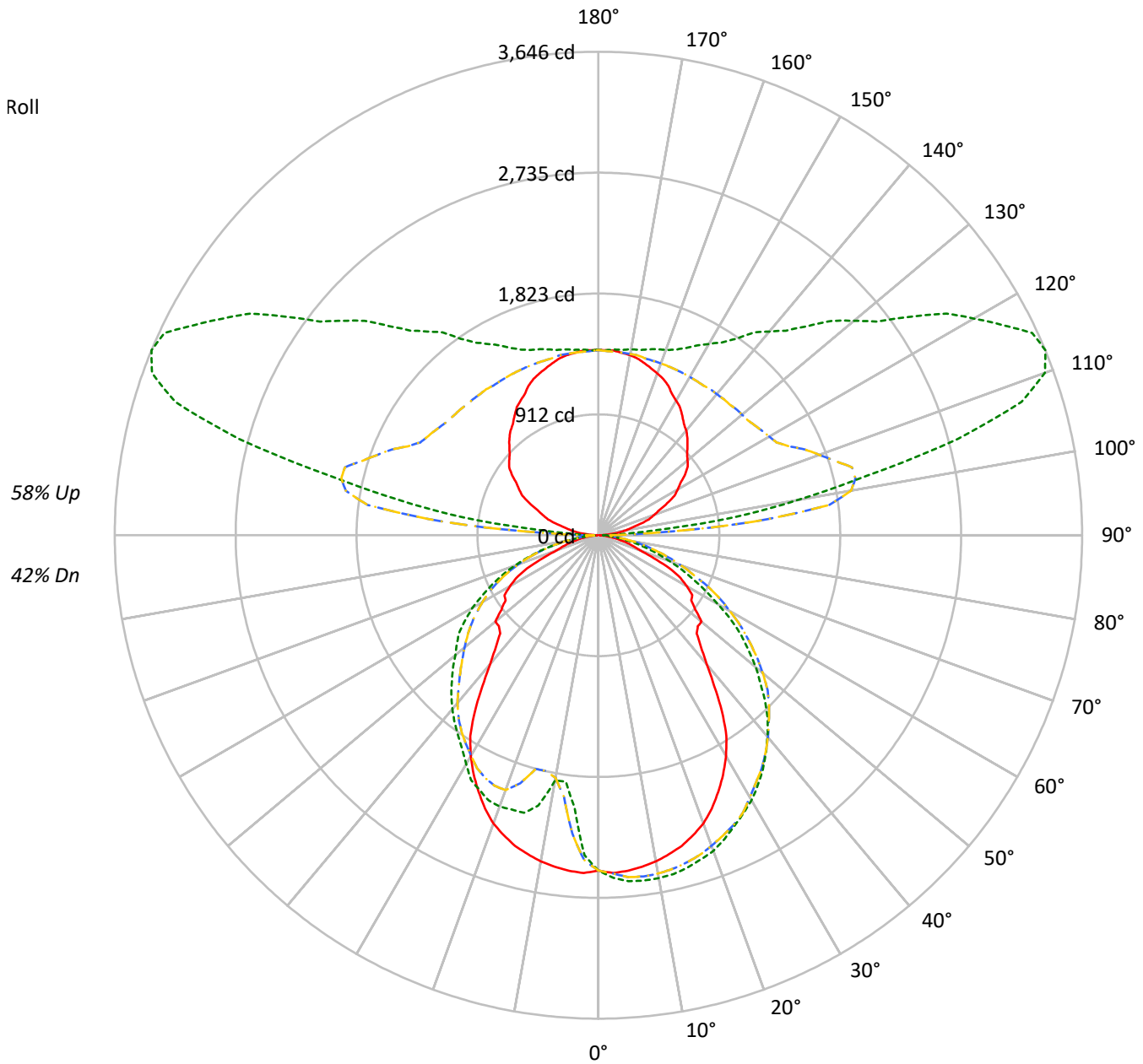
Test Method: LM-79-2019  
Report Number: P935667  
REPORT IS A COMBINATION OF REPORTS P933764 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-8-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 15614.0 lumens  
Efficiency: N/A  
Efficacy: 121.2 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	50	30	10	0
RCR																					
0	105	105	105	105	96	96	96	96	79	79	79	63	63	63	49	49	49	49	49	49	42
1	96	92	88	85	88	84	81	78	69	67	65	56	54	53	43	42	41	41	41	41	35
2	87	80	74	69	80	73	68	64	61	57	54	49	46	44	38	36	35	35	35	35	30
3	80	70	63	57	72	65	58	53	53	49	45	43	40	37	34	31	30	30	30	30	25
4	73	62	54	49	66	57	50	45	47	42	38	38	35	32	30	28	25	25	25	25	22
5	67	55	47	41	61	51	44	39	42	37	33	34	31	27	27	24	22	22	22	22	19
6	62	50	42	36	56	46	39	33	38	33	29	31	27	24	24	22	19	19	19	19	16
7	57	45	37	31	52	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	15
8	53	40	33	28	48	37	31	26	31	26	22	26	22	19	20	18	15	15	15	15	13
9	49	37	30	25	45	34	27	23	29	24	20	24	20	17	19	16	14	14	14	14	12
10	46	34	27	22	42	31	25	21	26	21	18	22	18	15	17	15	13	13	13	13	11

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

	0°	90°	180°	270°
0°	11730	11730	11730	11730
5°	11818	11841	11818	9310
10°	11738	11663	11738	8339
15°	11611	11411	11611	9528
20°	11368	11112	11368	9548
25°	10871	10675	10871	9346
30°	10228	10313	10228	8902
35°	9118	9854	9118	8413
40°	7598	9314	7598	8045
45°	6789	8682	6789	7621
50°	7212	7929	7212	7195
55°	6786	7117	6786	6949
60°	6995	6045	6995	6364
65°	6342	4997	6342	5585
70°	4391	3982	4391	4682
75°	3850	2944	3850	3525
80°	3104	1945	3104	2119
85°	1784	1031	1784	876

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10405 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	228.2	1.5
10°-20°	648.0	4.1
20°-30°	1001.6	6.4
30°-40°	1195.7	7.7
40°-50°	1202.7	7.7
50°-60°	1046.5	6.7
60°-70°	742.0	4.8
70°-80°	392.6	2.5
80°-90°	103.1	0.7
90°-100°	680.8	4.4
100°-110°	1789.8	11.5
110°-120°	1855.8	11.9
120°-130°	1488.6	9.5
130°-140°	1168.0	7.5
140°-150°	896.5	5.7
150°-160°	645.6	4.1
160°-170°	395.0	2.5
170°-180°	133.5	0.9
0°-30°	1877.8	12.0
0°-40°	3073.5	19.7
0°-60°	5322.8	34.1
0°-90°	6560.5	42.0
90°-120°	4326.4	27.7
90°-150°	7879.4	50.5
90°-180°	9054.0	58.0
0°-180°	15614.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2528	2528	2528	2528	2528	
5°	2540	2619	2540	2059	2540	241
15°	2425	2595	2425	2167	2425	682
25°	2136	2421	2136	2119	2136	981
35°	1624	2160	1624	1844	1624	1005
45°	1048	1780	1048	1562	1048	839
55°	854	1313	854	1282	854	785
65°	593	792	593	885	593	567
75°	225	376	225	450	225	236
85°	38	96	38	81	38	52
90°	9	36	9	36	9	9
95°	90	412	90	412	90	100
105°	322	2803	322	2803	322	342
115°	573	3609	573	3609	573	566
125°	797	2874	797	2874	797	707
135°	950	2230	950	2230	950	735
145°	1101	1809	1101	1809	1101	690
155°	1245	1558	1245	1558	1245	572
165°	1343	1451	1343	1451	1343	379
175°	1397	1406	1397	1406	1397	133
180°	1397	1397	1397	1397	1397	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2
2.5°	2549.7	2549.7	2564.0	2568.8	2568.8	2561.7	2554.5	2561.7	2583.2	2590.4	2588.0
5°	2540.2	2559.3	2585.6	2590.4	2595.2	2592.7	2588.0	2592.7	2616.7	2621.5	2623.9
7.5°	2521.1	2556.9	2590.4	2597.5	2604.8	2597.5	2595.2	2600.0	2623.9	2628.7	2628.7
10°	2497.1	2547.3	2585.6	2590.4	2597.5	2590.4	2590.4	2600.0	2623.9	2628.7	2631.0
12.5°	2463.6	2533.0	2568.8	2573.6	2583.2	2580.8	2578.4	2588.0	2611.9	2616.7	2616.7
15°	2425.4	2506.7	2540.2	2545.0	2561.7	2556.9	2556.9	2566.5	2592.7	2600.0	2597.5
17.5°	2372.7	2473.2	2511.5	2518.6	2530.6	2528.2	2530.6	2540.2	2564.0	2568.8	2571.3
20°	2313.0	2427.7	2473.2	2480.3	2492.4	2492.4	2492.4	2504.3	2528.2	2537.8	2537.8
22.5°	2231.6	2379.9	2427.7	2432.5	2446.8	2446.8	2451.6	2468.4	2489.9	2492.4	2492.4
25°	2135.9	2327.3	2367.9	2382.3	2396.7	2403.8	2411.0	2420.6	2427.7	2425.4	2427.7
27.5°	2035.4	2260.3	2313.0	2322.5	2341.7	2348.8	2358.4	2360.8	2363.2	2370.3	2365.5
30°	1923.0	2167.0	2246.0	2255.6	2286.6	2291.4	2281.8	2286.6	2298.6	2303.4	2308.2
32.5°	1796.3	2028.3	2176.6	2198.1	2226.8	2212.5	2210.0	2217.3	2236.4	2236.4	2241.2
35°	1624.0	1920.7	2112.0	2131.1	2152.7	2135.9	2145.5	2147.9	2159.9	2167.0	2164.6
37.5°	1435.1	1827.3	2045.0	2059.4	2076.2	2054.6	2068.9	2076.2	2085.7	2081.0	2081.0
40°	1267.7	1681.5	1966.1	1975.7	1990.0	1973.3	1987.6	1992.4	1997.2	1992.4	1990.0
42.5°	1143.3	1521.2	1882.4	1894.3	1884.8	1896.8	1901.6	1911.1	1903.9	1894.3	1894.3
45°	1047.6	1478.1	1791.5	1805.9	1791.5	1810.7	1817.8	1817.8	1796.3	1791.5	1789.1
47.5°	1016.6	1392.0	1700.6	1700.6	1693.5	1717.4	1729.3	1712.6	1691.0	1683.9	1683.9
50°	1014.1	1296.4	1576.2	1566.7	1600.1	1628.8	1616.9	1600.1	1583.4	1557.1	1557.1
52.5°	920.9	1179.2	1415.9	1451.9	1504.5	1521.2	1502.1	1485.4	1456.7	1444.7	1435.1
55°	853.9	1057.2	1270.1	1341.8	1396.8	1418.4	1382.5	1365.8	1322.7	1315.6	1310.8
57.5°	839.5	880.2	1136.2	1227.0	1294.0	1291.6	1270.1	1239.0	1203.1	1195.9	1193.5
60°	770.2	636.2	992.6	1100.2	1169.6	1162.4	1143.3	1114.6	1081.1	1076.3	1071.5
62.5°	698.4	461.6	829.9	952.0	1050.0	1047.6	1030.9	987.8	963.9	952.0	942.4
65°	593.2	387.5	590.8	791.7	932.9	937.6	901.7	870.7	844.3	829.9	827.6
67.5°	452.0	315.7	399.4	660.1	820.4	815.6	770.2	755.8	722.3	715.2	700.8
70°	334.8	210.4	277.4	535.8	710.4	698.4	662.6	645.8	614.7	597.9	588.4
72.5°	277.4	169.8	203.3	416.2	597.9	583.6	552.5	533.4	507.1	492.7	483.2
75°	224.8	179.4	155.5	308.6	485.5	476.0	447.2	428.1	406.6	387.5	389.9
77.5°	165.0	167.5	124.4	227.2	385.1	370.8	354.0	330.1	320.5	301.4	301.4
80°	124.4	131.5	93.3	155.5	277.4	277.4	263.1	246.4	229.6	220.0	220.0
82.5°	83.7	83.7	69.3	98.0	189.0	181.8	172.3	167.5	157.9	153.1	153.1
85°	38.3	47.8	43.1	59.8	102.8	107.6	107.6	102.8	100.5	95.7	98.0
87.5°	11.9	21.5	26.3	33.5	52.6	55.0	57.4	57.4	57.4	59.8	59.8
90°	9.4	16.9	24.3	26.2	41.3	61.3	71.2	63.3	47.4	35.6	35.6
92.5°	37.5	101.2	165.0	180.9	254.4	352.2	401.2	351.6	252.4	178.0	171.0
95°	90.0	206.6	323.3	352.5	625.8	990.3	1172.5	1046.4	793.9	604.6	583.1
97.5°	155.6	258.5	361.4	387.1	843.0	1450.8	1754.7	1674.9	1515.3	1395.7	1354.8
100°	206.2	299.5	392.8	416.2	922.0	1596.4	1933.7	1939.5	1951.2	1959.9	1911.3
102.5°	249.3	336.4	423.4	445.2	958.3	1642.3	1984.3	2085.9	2289.2	2441.7	2400.0
105°	322.4	396.2	469.9	488.3	985.1	1647.5	1978.7	2206.5	2662.3	3004.0	2981.7
107.5°	397.5	466.2	534.9	552.1	990.1	1574.2	1866.2	2184.1	2819.8	3296.5	3301.9
110°	448.1	510.1	572.2	587.7	982.6	1509.2	1772.5	2127.9	2838.5	3371.5	3394.8



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	497.7	556.9	616.1	630.8	982.9	1452.4	1687.1	2050.8	2778.1	3323.7	3359.5
115°	572.7	627.3	681.8	695.4	992.0	1387.3	1585.0	1935.3	2636.0	3161.5	3211.2
117.5°	646.7	696.3	745.9	758.3	1010.4	1346.6	1514.7	1830.9	2463.2	2937.5	2992.6
120°	689.8	736.5	783.1	794.8	1025.4	1332.8	1486.5	1775.5	2353.2	2786.6	2840.1
122.5°	732.0	779.1	826.1	837.9	1046.9	1325.6	1465.0	1725.1	2245.5	2635.7	2688.5
125°	796.7	839.6	882.5	893.2	1076.0	1319.7	1441.6	1662.6	2104.6	2436.1	2484.7
127.5°	849.2	892.6	935.8	946.7	1105.1	1316.3	1421.9	1611.6	1991.2	2275.8	2316.8
130°	877.3	924.0	970.6	982.3	1126.3	1318.4	1414.4	1583.3	1921.2	2174.6	2212.5
132.5°	906.3	953.0	999.7	1011.3	1143.5	1319.7	1407.8	1559.0	1861.5	2088.3	2122.2
135°	949.5	992.0	1034.5	1045.1	1162.2	1318.5	1396.6	1523.2	1776.5	1966.5	1995.7
137.5°	993.5	1035.6	1077.7	1088.2	1190.4	1326.6	1394.7	1501.8	1715.9	1876.5	1900.5
140°	1030.1	1068.8	1107.6	1117.2	1207.6	1328.0	1388.2	1480.7	1665.6	1804.3	1826.7
142.5°	1058.2	1094.1	1129.8	1138.8	1221.9	1332.8	1388.2	1469.3	1631.8	1753.7	1772.9
145°	1101.3	1132.5	1163.9	1171.6	1240.7	1332.8	1378.7	1445.2	1578.1	1677.8	1692.4
147.5°	1144.5	1174.9	1205.3	1212.9	1268.2	1341.9	1378.7	1431.1	1535.6	1614.1	1626.1
150°	1172.5	1200.1	1227.6	1234.5	1282.5	1346.7	1378.7	1422.9	1511.3	1577.5	1587.3
152.5°	1201.6	1222.4	1243.2	1248.5	1291.9	1349.8	1378.7	1416.5	1491.9	1548.5	1555.9
155°	1244.8	1260.2	1275.6	1279.4	1312.6	1356.7	1378.7	1408.8	1468.8	1513.8	1518.7
157.5°	1276.6	1291.6	1306.6	1310.3	1333.1	1363.5	1378.7	1402.1	1448.7	1483.7	1487.2
160°	1298.2	1309.9	1321.5	1324.4	1342.5	1366.7	1378.7	1398.7	1438.8	1468.7	1470.7
162.5°	1319.7	1328.4	1337.2	1339.4	1352.5	1370.0	1378.7	1395.6	1429.3	1454.7	1456.6
165°	1343.2	1351.1	1359.0	1361.0	1366.9	1374.8	1378.7	1390.9	1415.0	1433.1	1435.1
167.5°	1364.7	1368.4	1372.2	1373.1	1378.1	1384.8	1388.2	1396.0	1411.9	1423.7	1424.5
170°	1378.7	1382.5	1386.3	1387.2	1387.5	1388.0	1388.2	1396.0	1411.9	1423.7	1423.7
172.5°	1386.3	1387.1	1388.0	1388.2	1388.2	1388.2	1388.2	1394.4	1406.9	1416.3	1415.6
175°	1396.6	1396.6	1396.6	1396.6	1393.8	1390.1	1388.2	1392.1	1400.0	1406.0	1406.0
177.5°	1396.6	1396.6	1396.6	1396.6	1394.4	1391.5	1390.1	1393.1	1399.4	1404.1	1403.3
180°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2
2.5°	2592.7	2585.6	2592.7	2588.0	2590.4	2583.2	2561.7	2554.5	2561.7	2568.8	2568.8
5°	2623.9	2619.1	2623.9	2623.9	2621.5	2616.7	2592.7	2588.0	2592.7	2595.2	2590.4
7.5°	2633.5	2626.2	2633.5	2628.7	2628.7	2623.9	2600.0	2595.2	2597.5	2604.8	2597.5
10°	2633.5	2626.2	2633.5	2631.0	2628.7	2623.9	2600.0	2590.4	2590.4	2597.5	2590.4
12.5°	2621.5	2616.7	2621.5	2616.7	2616.7	2611.9	2588.0	2578.4	2580.8	2583.2	2573.6
15°	2602.3	2595.2	2602.3	2597.5	2600.0	2592.7	2566.5	2556.9	2556.9	2561.7	2545.0
17.5°	2573.6	2564.0	2573.6	2571.3	2568.8	2564.0	2540.2	2530.6	2528.2	2530.6	2518.6
20°	2540.2	2533.0	2540.2	2537.8	2537.8	2528.2	2504.3	2492.4	2492.4	2492.4	2480.3
22.5°	2487.6	2480.3	2487.6	2492.4	2492.4	2489.9	2468.4	2451.6	2446.8	2446.8	2432.5
25°	2427.7	2420.6	2427.7	2427.7	2425.4	2427.7	2420.6	2411.0	2403.8	2396.7	2382.3
27.5°	2370.3	2365.5	2370.3	2365.5	2370.3	2363.2	2360.8	2358.4	2348.8	2341.7	2322.5
30°	2313.0	2308.2	2313.0	2308.2	2303.4	2298.6	2286.6	2281.8	2291.4	2286.6	2255.6
32.5°	2241.2	2236.4	2241.2	2241.2	2236.4	2236.4	2217.3	2210.0	2212.5	2226.8	2198.1
35°	2167.0	2159.9	2167.0	2164.6	2167.0	2159.9	2147.9	2145.5	2135.9	2152.7	2131.1
37.5°	2081.0	2073.7	2081.0	2081.0	2081.0	2085.7	2076.2	2068.9	2054.6	2076.2	2059.4
40°	1992.4	1982.8	1992.4	1990.0	1992.4	1997.2	1992.4	1987.6	1973.3	1990.0	1975.7
42.5°	1892.0	1889.6	1892.0	1894.3	1894.3	1903.9	1911.1	1901.6	1896.8	1884.8	1894.3
45°	1784.3	1779.5	1784.3	1789.1	1791.5	1796.3	1817.8	1817.8	1810.7	1791.5	1805.9
47.5°	1669.5	1657.5	1669.5	1683.9	1683.9	1691.0	1712.6	1729.3	1717.4	1693.5	1700.6
50°	1547.6	1549.9	1547.6	1557.1	1557.1	1583.4	1600.1	1616.9	1628.8	1600.1	1566.7
52.5°	1428.0	1425.5	1428.0	1435.1	1444.7	1456.7	1485.4	1502.1	1521.2	1504.5	1451.9
55°	1308.3	1313.1	1308.3	1310.8	1315.6	1322.7	1365.8	1382.5	1418.4	1396.8	1341.8
57.5°	1188.7	1181.6	1188.7	1193.5	1195.9	1203.1	1239.0	1270.1	1291.6	1294.0	1227.0
60°	1050.0	1040.5	1050.0	1071.5	1076.3	1081.1	1114.6	1143.3	1162.4	1169.6	1100.2
62.5°	928.1	911.3	928.1	942.4	952.0	963.9	987.8	1030.9	1047.6	1050.0	952.0
65°	798.9	791.7	798.9	827.6	829.9	844.3	870.7	901.7	937.6	932.9	791.7
67.5°	681.7	681.7	681.7	700.8	715.2	722.3	755.8	770.2	815.6	820.4	660.1
70°	574.1	571.7	574.1	588.4	597.9	614.7	645.8	662.6	698.4	710.4	535.8
72.5°	471.2	468.8	471.2	483.2	492.7	507.1	533.4	552.5	583.6	597.9	416.2
75°	380.3	375.6	380.3	389.9	387.5	406.6	428.1	447.2	476.0	485.5	308.6
77.5°	291.8	291.8	291.8	301.4	301.4	320.5	330.1	354.0	370.8	385.1	227.2
80°	217.7	215.2	217.7	220.0	220.0	229.6	246.4	263.1	277.4	277.4	155.5
82.5°	153.1	148.3	153.1	153.1	153.1	157.9	167.5	172.3	181.8	189.0	98.0
85°	95.7	95.7	95.7	98.0	95.7	100.5	102.8	107.6	107.6	102.8	59.8
87.5°	62.2	59.8	62.2	59.8	59.8	57.4	57.4	57.4	55.0	52.6	33.5
90°	35.6	35.6	35.6	35.6	35.6	47.4	63.3	71.2	61.3	41.3	26.2
92.5°	142.7	114.3	142.7	171.0	178.0	252.4	351.6	401.2	352.2	254.4	180.9
95°	497.3	411.5	497.3	583.1	604.6	793.9	1046.4	1172.5	990.3	625.8	352.5
97.5°	1191.6	1028.3	1191.6	1354.8	1395.7	1515.3	1674.9	1754.7	1450.8	843.0	387.1
100°	1716.7	1522.2	1716.7	1911.3	1959.9	1951.2	1939.5	1933.7	1596.4	922.0	416.2
102.5°	2233.4	2066.8	2233.4	2400.0	2441.7	2289.2	2085.9	1984.3	1642.3	958.3	445.2
105°	2892.1	2802.6	2892.1	2981.7	3004.0	2662.3	2206.5	1978.7	1647.5	985.1	488.3
107.5°	3323.6	3345.2	3323.6	3301.9	3296.5	2819.8	2184.1	1866.2	1574.2	990.1	552.1
110°	3488.1	3581.5	3488.1	3394.8	3371.5	2838.5	2127.9	1772.5	1509.2	982.6	587.7





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3502.8	3646.1	3502.8	3359.5	3323.7	2778.1	2050.8	1687.1	1452.4	982.9	630.8
115°	3409.9	3608.6	3409.9	3211.2	3161.5	2636.0	1935.3	1585.0	1387.3	992.0	695.4
117.5°	3213.0	3433.4	3213.0	2992.6	2937.5	2463.2	1830.9	1514.7	1346.6	1010.4	758.3
120°	3054.3	3268.4	3054.3	2840.1	2786.6	2353.2	1775.5	1486.5	1332.8	1025.4	794.8
122.5°	2899.8	3110.9	2899.8	2688.5	2635.7	2245.5	1725.1	1465.0	1325.6	1046.9	837.9
125°	2679.3	2873.8	2679.3	2484.7	2436.1	2104.6	1662.6	1441.6	1319.7	1076.0	893.2
127.5°	2481.0	2645.1	2481.0	2316.8	2275.8	1991.2	1611.6	1421.9	1316.3	1105.1	946.7
130°	2364.1	2515.7	2364.1	2212.5	2174.6	1921.2	1583.3	1414.4	1318.4	1126.3	982.3
132.5°	2258.1	2393.9	2258.1	2122.2	2088.3	1861.5	1559.0	1407.8	1319.7	1143.5	1011.3
135°	2112.8	2229.9	2112.8	1995.7	1966.5	1776.5	1523.2	1396.6	1318.5	1162.2	1045.1
137.5°	1996.2	2092.1	1996.2	1900.5	1876.5	1715.9	1501.8	1394.7	1326.6	1190.4	1088.2
140°	1916.3	2005.8	1916.3	1826.7	1804.3	1665.6	1480.7	1388.2	1328.0	1207.6	1117.2
142.5°	1850.0	1927.1	1850.0	1772.9	1753.7	1631.8	1469.3	1388.2	1332.8	1221.9	1138.8
145°	1750.7	1809.0	1750.7	1692.4	1677.8	1578.1	1445.2	1378.7	1332.8	1240.7	1171.6
147.5°	1674.5	1722.8	1674.5	1626.1	1614.1	1535.6	1431.1	1378.7	1341.9	1268.2	1212.9
150°	1626.5	1665.6	1626.5	1587.3	1577.5	1511.3	1422.9	1378.7	1346.7	1282.5	1234.5
152.5°	1585.4	1615.0	1585.4	1555.9	1548.5	1491.9	1416.5	1378.7	1349.8	1291.9	1248.5
155°	1538.2	1557.8	1538.2	1518.7	1513.8	1468.8	1408.8	1378.7	1356.7	1312.6	1279.4
157.5°	1500.9	1514.7	1500.9	1487.2	1483.7	1448.7	1402.1	1378.7	1363.5	1333.1	1310.3
160°	1478.6	1486.5	1478.6	1470.7	1468.7	1438.8	1398.7	1378.7	1366.7	1342.5	1324.4
162.5°	1464.1	1471.6	1464.1	1456.6	1454.7	1429.3	1395.6	1378.7	1370.0	1352.5	1339.4
165°	1443.0	1451.0	1443.0	1435.1	1433.1	1415.0	1390.9	1378.7	1374.8	1366.9	1361.0
167.5°	1427.9	1431.2	1427.9	1424.5	1423.7	1411.9	1396.0	1388.2	1384.8	1378.1	1373.1
170°	1423.7	1423.7	1423.7	1423.7	1423.7	1411.9	1396.0	1388.2	1388.0	1387.5	1387.2
172.5°	1412.6	1409.7	1412.6	1415.6	1416.3	1406.9	1394.4	1388.2	1388.2	1388.2	1388.2
175°	1406.0	1406.0	1406.0	1406.0	1406.0	1400.0	1392.1	1388.2	1390.1	1393.8	1396.6
177.5°	1399.9	1396.6	1399.9	1403.3	1404.1	1399.4	1393.1	1390.1	1391.5	1394.4	1396.6
180°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6



TEST NUMBER: P935667

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2
2.5°	2564.0	2549.7	2549.7	2525.9	2516.3	2509.1	2497.1	2461.2	2451.6	2442.1	2456.4
5°	2585.6	2559.3	2540.2	2497.1	2461.2	2446.8	2401.4	2315.3	2257.9	2214.8	2190.9
7.5°	2590.4	2556.9	2521.1	2454.1	2367.9	2329.7	2190.9	2033.1	1990.0	1951.8	1927.8
10°	2585.6	2547.3	2497.1	2396.7	2193.3	2126.4	1987.6	1884.8	1858.5	1851.3	1858.5
12.5°	2568.8	2533.0	2463.6	2296.2	2011.5	1966.1	1884.8	1825.0	1820.2	1832.1	1896.8
15°	2540.2	2506.7	2425.4	2162.2	1911.1	1877.6	1820.2	1798.6	1825.0	1908.7	2102.4
17.5°	2511.5	2473.2	2372.7	2030.7	1834.6	1810.7	1770.0	1813.0	1961.3	2073.7	2138.4
20°	2473.2	2427.7	2313.0	1935.1	1779.5	1758.0	1738.9	1932.6	2045.0	2085.7	2121.6
22.5°	2427.7	2379.9	2231.6	1868.1	1722.2	1705.4	1717.4	1999.6	2045.0	2073.7	2104.9
25°	2367.9	2327.3	2135.9	1815.4	1676.7	1657.5	1703.0	1992.4	2018.7	2025.9	2088.1
27.5°	2313.0	2260.3	2035.4	1767.6	1621.7	1614.5	1715.0	1961.3	1980.5	1987.6	2054.6
30°	2246.0	2167.0	1923.0	1717.4	1564.3	1561.9	1717.4	1923.0	1918.3	1937.4	2004.4
32.5°	2176.6	2028.3	1796.3	1655.2	1509.3	1506.9	1700.6	1865.6	1860.8	1887.2	1937.4
35°	2112.0	1920.7	1624.0	1583.4	1439.9	1442.3	1660.0	1798.6	1801.1	1825.0	1856.1
37.5°	2045.0	1827.3	1435.1	1504.5	1372.9	1372.9	1604.9	1736.5	1731.8	1738.9	1781.9
40°	1966.1	1681.5	1267.7	1401.6	1310.8	1303.5	1538.0	1669.5	1652.7	1650.4	1710.2
42.5°	1882.4	1521.2	1143.3	1265.3	1239.0	1229.4	1456.7	1588.2	1557.1	1564.3	1640.8
45°	1791.5	1478.1	1047.6	1069.2	1164.9	1157.7	1368.2	1494.9	1473.4	1492.5	1571.5
47.5°	1700.6	1392.0	1016.6	887.4	1085.9	1083.5	1270.1	1404.0	1392.0	1411.2	1494.9
50°	1576.2	1296.4	1014.1	760.6	997.4	1007.0	1152.9	1315.6	1315.6	1332.3	1420.7
52.5°	1415.9	1179.2	920.9	688.8	894.6	923.3	1050.0	1239.0	1243.8	1260.5	1339.5
55°	1270.1	1057.2	853.9	633.9	772.6	834.7	949.6	1160.1	1169.6	1186.4	1258.1
57.5°	1136.2	880.2	839.5	569.3	660.1	720.0	861.1	1083.5	1088.3	1102.7	1172.0
60°	992.6	636.2	770.2	499.9	562.1	607.5	779.7	992.6	1009.3	1018.9	1078.8
62.5°	829.9	461.6	698.4	452.0	514.2	523.8	712.8	906.5	928.1	935.2	971.1
65°	590.8	387.5	593.2	411.4	464.0	466.4	641.0	818.0	837.2	849.1	875.4
67.5°	399.4	315.7	452.0	373.1	425.8	428.1	571.7	715.2	741.5	751.0	767.8
70°	277.4	210.4	334.8	332.5	382.7	387.5	497.5	621.8	645.8	653.0	662.6
72.5°	203.3	169.8	277.4	299.0	337.3	342.1	421.0	516.7	540.6	547.7	552.5
75°	155.5	179.4	224.8	260.7	287.0	289.4	344.4	421.0	437.7	442.5	444.9
77.5°	124.4	167.5	165.0	210.4	234.4	229.6	270.3	325.3	339.6	339.6	339.6
80°	93.3	131.5	124.4	150.7	172.3	167.5	193.7	232.0	236.8	241.6	239.1
82.5°	69.3	83.7	83.7	95.7	114.8	110.1	129.2	150.7	150.7	150.7	155.5
85°	43.1	47.8	38.3	50.2	64.5	62.2	71.8	81.3	83.7	83.7	78.9
87.5°	26.3	21.5	11.9	19.1	28.7	28.7	33.5	35.8	33.5	33.5	33.5
90°	24.3	16.9	9.4	16.9	24.3	26.2	41.3	61.3	71.2	63.3	47.4
92.5°	165.0	101.2	37.5	101.2	165.0	180.9	254.4	352.2	401.2	351.6	252.4
95°	323.3	206.6	90.0	206.6	323.3	352.5	625.8	990.3	1172.5	1046.4	793.9
97.5°	361.4	258.5	155.6	258.5	361.4	387.1	843.0	1450.8	1754.7	1674.9	1515.3
100°	392.8	299.5	206.2	299.5	392.8	416.2	922.0	1596.4	1933.7	1939.5	1951.2
102.5°	423.4	336.4	249.3	336.4	423.4	445.2	958.3	1642.3	1984.3	2085.9	2289.2
105°	469.9	396.2	322.4	396.2	469.9	488.3	985.1	1647.5	1978.7	2206.5	2662.3
107.5°	534.9	466.2	397.5	466.2	534.9	552.1	990.1	1574.2	1866.2	2184.1	2819.8
110°	572.2	510.1	448.1	510.1	572.2	587.7	982.6	1509.2	1772.5	2127.9	2838.5



TEST NUMBER: P935667

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	616.1	556.9	497.7	556.9	616.1	630.8	982.9	1452.4	1687.1	2050.8	2778.1
115°	681.8	627.3	572.7	627.3	681.8	695.4	992.0	1387.3	1585.0	1935.3	2636.0
117.5°	745.9	696.3	646.7	696.3	745.9	758.3	1010.4	1346.6	1514.7	1830.9	2463.2
120°	783.1	736.5	689.8	736.5	783.1	794.8	1025.4	1332.8	1486.5	1775.5	2353.2
122.5°	826.1	779.1	732.0	779.1	826.1	837.9	1046.9	1325.6	1465.0	1725.1	2245.5
125°	882.5	839.6	796.7	839.6	882.5	893.2	1076.0	1319.7	1441.6	1662.6	2104.6
127.5°	935.8	892.6	849.2	892.6	935.8	946.7	1105.1	1316.3	1421.9	1611.6	1991.2
130°	970.6	924.0	877.3	924.0	970.6	982.3	1126.3	1318.4	1414.4	1583.3	1921.2
132.5°	999.7	953.0	906.3	953.0	999.7	1011.3	1143.5	1319.7	1407.8	1559.0	1861.5
135°	1034.5	992.0	949.5	992.0	1034.5	1045.1	1162.2	1318.5	1396.6	1523.2	1776.5
137.5°	1077.7	1035.6	993.5	1035.6	1077.7	1088.2	1190.4	1326.6	1394.7	1501.8	1715.9
140°	1107.6	1068.8	1030.1	1068.8	1107.6	1117.2	1207.6	1328.0	1388.2	1480.7	1665.6
142.5°	1129.8	1094.1	1058.2	1094.1	1129.8	1138.8	1221.9	1332.8	1388.2	1469.3	1631.8
145°	1163.9	1132.5	1101.3	1132.5	1163.9	1171.6	1240.7	1332.8	1378.7	1445.2	1578.1
147.5°	1205.3	1174.9	1144.5	1174.9	1205.3	1212.9	1268.2	1341.9	1378.7	1431.1	1535.6
150°	1227.6	1200.1	1172.5	1200.1	1227.6	1234.5	1282.5	1346.7	1378.7	1422.9	1511.3
152.5°	1243.2	1222.4	1201.6	1222.4	1243.2	1248.5	1291.9	1349.8	1378.7	1416.5	1491.9
155°	1275.6	1260.2	1244.8	1260.2	1275.6	1279.4	1312.6	1356.7	1378.7	1408.8	1468.8
157.5°	1306.6	1291.6	1276.6	1291.6	1306.6	1310.3	1333.1	1363.5	1378.7	1402.1	1448.7
160°	1321.5	1309.9	1298.2	1309.9	1321.5	1324.4	1342.5	1366.7	1378.7	1398.7	1438.8
162.5°	1337.2	1328.4	1319.7	1328.4	1337.2	1339.4	1352.5	1370.0	1378.7	1395.6	1429.3
165°	1359.0	1351.1	1343.2	1351.1	1359.0	1361.0	1366.9	1374.8	1378.7	1390.9	1415.0
167.5°	1372.2	1368.4	1364.7	1368.4	1372.2	1373.1	1378.1	1384.8	1388.2	1396.0	1411.9
170°	1386.3	1382.5	1378.7	1382.5	1386.3	1387.2	1387.5	1388.0	1388.2	1396.0	1411.9
172.5°	1388.0	1387.1	1386.3	1387.1	1388.0	1388.2	1388.2	1388.2	1388.2	1394.4	1406.9
175°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1393.8	1390.1	1388.2	1392.1	1400.0
177.5°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1394.4	1391.5	1390.1	1393.1	1399.4
180°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6



TEST NUMBER: P935667

CATALOG NUMBER: SQ4-FA-125U-100D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2	2528.2
2.5°	2439.7	2432.5	2442.1	2415.8	2442.1	2432.5	2439.7	2456.4	2442.1	2451.6	2461.2
5°	2140.7	2128.8	2090.5	2059.4	2090.5	2128.8	2140.7	2190.9	2214.8	2257.9	2315.3
7.5°	1913.5	1903.9	1894.3	1875.2	1894.3	1903.9	1913.5	1927.8	1951.8	1990.0	2033.1
10°	1863.3	1865.6	1880.0	1877.6	1880.0	1865.6	1863.3	1858.5	1851.3	1858.5	1884.8
12.5°	1992.4	2014.0	2092.9	2088.1	2092.9	2014.0	1992.4	1896.8	1832.1	1820.2	1825.0
15°	2140.7	2147.9	2164.6	2167.0	2164.6	2147.9	2140.7	2102.4	1908.7	1825.0	1798.6
17.5°	2155.1	2157.5	2169.4	2169.4	2169.4	2157.5	2155.1	2138.4	2073.7	1961.3	1813.0
20°	2143.1	2147.9	2171.8	2176.6	2171.8	2147.9	2143.1	2121.6	2085.7	2045.0	1932.6
22.5°	2138.4	2147.9	2167.0	2164.6	2167.0	2147.9	2138.4	2104.9	2073.7	2045.0	1999.6
25°	2114.4	2114.4	2116.8	2119.2	2116.8	2114.4	2114.4	2088.1	2025.9	2018.7	1992.4
27.5°	2064.2	2068.9	2083.3	2081.0	2083.3	2068.9	2064.2	2054.6	1987.6	1980.5	1961.3
30°	2018.7	2014.0	2001.9	1992.4	2001.9	2014.0	2018.7	2004.4	1937.4	1918.3	1923.0
32.5°	1942.2	1930.3	1918.3	1911.1	1918.3	1930.3	1942.2	1937.4	1887.2	1860.8	1865.6
35°	1851.3	1853.7	1851.3	1844.1	1851.3	1853.7	1851.3	1856.1	1825.0	1801.1	1798.6
37.5°	1786.7	1791.5	1789.1	1779.5	1789.1	1791.5	1786.7	1781.9	1738.9	1731.8	1736.5
40°	1719.7	1722.2	1719.7	1712.6	1719.7	1722.2	1719.7	1710.2	1650.4	1652.7	1669.5
42.5°	1655.2	1652.7	1645.6	1640.8	1645.6	1652.7	1655.2	1640.8	1564.3	1557.1	1588.2
45°	1581.0	1583.4	1569.1	1561.9	1569.1	1583.4	1581.0	1571.5	1492.5	1473.4	1494.9
47.5°	1506.9	1506.9	1494.9	1487.7	1494.9	1506.9	1506.9	1494.9	1411.2	1392.0	1404.0
50°	1428.0	1425.5	1408.8	1406.4	1408.8	1425.5	1428.0	1420.7	1332.3	1315.6	1315.6
52.5°	1337.0	1337.0	1339.5	1344.3	1339.5	1337.0	1337.0	1339.5	1260.5	1243.8	1239.0
55°	1258.1	1260.5	1277.3	1282.1	1277.3	1260.5	1258.1	1258.1	1186.4	1169.6	1160.1
57.5°	1176.8	1176.8	1188.7	1188.7	1188.7	1176.8	1176.8	1172.0	1102.7	1088.3	1083.5
60°	1083.5	1088.3	1097.9	1095.5	1097.9	1088.3	1083.5	1078.8	1018.9	1009.3	992.6
62.5°	985.4	990.2	992.6	987.8	992.6	990.2	985.4	971.1	935.2	928.1	906.5
65°	882.6	887.4	889.8	885.0	889.8	887.4	882.6	875.4	849.1	837.2	818.0
67.5°	777.4	775.0	772.6	782.1	772.6	775.0	777.4	767.8	751.0	741.5	715.2
70°	669.7	669.7	667.3	672.1	667.3	669.7	669.7	662.6	653.0	645.8	621.8
72.5°	555.0	552.5	562.1	555.0	562.1	552.5	555.0	552.5	547.7	540.6	516.7
75°	442.5	447.2	442.5	449.7	442.5	447.2	442.5	444.9	442.5	437.7	421.0
77.5°	337.3	342.1	337.3	337.3	337.3	342.1	337.3	339.6	339.6	339.6	325.3
80°	239.1	236.8	236.8	234.4	236.8	236.8	239.1	239.1	241.6	236.8	232.0
82.5°	153.1	150.7	150.7	155.5	150.7	150.7	153.1	155.5	150.7	150.7	150.7
85°	83.7	86.1	81.3	81.3	81.3	86.1	83.7	78.9	83.7	83.7	81.3
87.5°	31.1	28.7	28.7	28.7	28.7	28.7	31.1	33.5	33.5	33.5	35.8
90°	35.6	35.6	35.6	35.6	35.6	35.6	35.6	47.4	63.3	71.2	61.3
92.5°	178.0	171.0	142.7	114.3	142.7	171.0	178.0	252.4	351.6	401.2	352.2
95°	604.6	583.1	497.3	411.5	497.3	583.1	604.6	793.9	1046.4	1172.5	990.3
97.5°	1395.7	1354.8	1191.6	1028.3	1191.6	1354.8	1395.7	1515.3	1674.9	1754.7	1450.8
100°	1959.9	1911.3	1716.7	1522.2	1716.7	1911.3	1959.9	1951.2	1939.5	1933.7	1596.4
102.5°	2441.7	2400.0	2233.4	2066.8	2233.4	2400.0	2441.7	2289.2	2085.9	1984.3	1642.3
105°	3004.0	2981.7	2892.1	2802.6	2892.1	2981.7	3004.0	2662.3	2206.5	1978.7	1647.5
107.5°	3296.5	3301.9	3323.6	3345.2	3323.6	3301.9	3296.5	2819.8	2184.1	1866.2	1574.2
110°	3371.5	3394.8	3488.1	3581.5	3488.1	3394.8	3371.5	2838.5	2127.9	1772.5	1509.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3323.7	3359.5	3502.8	3646.1	3502.8	3359.5	3323.7	2778.1	2050.8	1687.1	1452.4
115°	3161.5	3211.2	3409.9	3608.6	3409.9	3211.2	3161.5	2636.0	1935.3	1585.0	1387.3
117.5°	2937.5	2992.6	3213.0	3433.4	3213.0	2992.6	2937.5	2463.2	1830.9	1514.7	1346.6
120°	2786.6	2840.1	3054.3	3268.4	3054.3	2840.1	2786.6	2353.2	1775.5	1486.5	1332.8
122.5°	2635.7	2688.5	2899.8	3110.9	2899.8	2688.5	2635.7	2245.5	1725.1	1465.0	1325.6
125°	2436.1	2484.7	2679.3	2873.8	2679.3	2484.7	2436.1	2104.6	1662.6	1441.6	1319.7
127.5°	2275.8	2316.8	2481.0	2645.1	2481.0	2316.8	2275.8	1991.2	1611.6	1421.9	1316.3
130°	2174.6	2212.5	2364.1	2515.7	2364.1	2212.5	2174.6	1921.2	1583.3	1414.4	1318.4
132.5°	2088.3	2122.2	2258.1	2393.9	2258.1	2122.2	2088.3	1861.5	1559.0	1407.8	1319.7
135°	1966.5	1995.7	2112.8	2229.9	2112.8	1995.7	1966.5	1776.5	1523.2	1396.6	1318.5
137.5°	1876.5	1900.5	1996.2	2092.1	1996.2	1900.5	1876.5	1715.9	1501.8	1394.7	1326.6
140°	1804.3	1826.7	1916.3	2005.8	1916.3	1826.7	1804.3	1665.6	1480.7	1388.2	1328.0
142.5°	1753.7	1772.9	1850.0	1927.1	1850.0	1772.9	1753.7	1631.8	1469.3	1388.2	1332.8
145°	1677.8	1692.4	1750.7	1809.0	1750.7	1692.4	1677.8	1578.1	1445.2	1378.7	1332.8
147.5°	1614.1	1626.1	1674.5	1722.8	1674.5	1626.1	1614.1	1535.6	1431.1	1378.7	1341.9
150°	1577.5	1587.3	1626.5	1665.6	1626.5	1587.3	1577.5	1511.3	1422.9	1378.7	1346.7
152.5°	1548.5	1555.9	1585.4	1615.0	1585.4	1555.9	1548.5	1491.9	1416.5	1378.7	1349.8
155°	1513.8	1518.7	1538.2	1557.8	1538.2	1518.7	1513.8	1468.8	1408.8	1378.7	1356.7
157.5°	1483.7	1487.2	1500.9	1514.7	1500.9	1487.2	1483.7	1448.7	1402.1	1378.7	1363.5
160°	1468.7	1470.7	1478.6	1486.5	1478.6	1470.7	1468.7	1438.8	1398.7	1378.7	1366.7
162.5°	1454.7	1456.6	1464.1	1471.6	1464.1	1456.6	1454.7	1429.3	1395.6	1378.7	1370.0
165°	1433.1	1435.1	1443.0	1451.0	1443.0	1435.1	1433.1	1415.0	1390.9	1378.7	1374.8
167.5°	1423.7	1424.5	1427.9	1431.2	1427.9	1424.5	1423.7	1411.9	1396.0	1388.2	1384.8
170°	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1423.7	1411.9	1396.0	1388.2	1388.0
172.5°	1416.3	1415.6	1412.6	1409.7	1412.6	1415.6	1416.3	1406.9	1394.4	1388.2	1388.2
175°	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1406.0	1400.0	1392.1	1388.2	1390.1
177.5°	1404.1	1403.3	1399.9	1396.6	1399.9	1403.3	1404.1	1399.4	1393.1	1390.1	1391.5
180°	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6	1396.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2528.2	2528.2	2528.2	2528.2	2528.2
2.5°	2497.1	2509.1	2516.3	2525.9	2549.7
5°	2401.4	2446.8	2461.2	2497.1	2540.2
7.5°	2190.9	2329.7	2367.9	2454.1	2521.1
10°	1987.6	2126.4	2193.3	2396.7	2497.1
12.5°	1884.8	1966.1	2011.5	2296.2	2463.6
15°	1820.2	1877.6	1911.1	2162.2	2425.4
17.5°	1770.0	1810.7	1834.6	2030.7	2372.7
20°	1738.9	1758.0	1779.5	1935.1	2313.0
22.5°	1717.4	1705.4	1722.2	1868.1	2231.6
25°	1703.0	1657.5	1676.7	1815.4	2135.9
27.5°	1715.0	1614.5	1621.7	1767.6	2035.4
30°	1717.4	1561.9	1564.3	1717.4	1923.0
32.5°	1700.6	1506.9	1509.3	1655.2	1796.3
35°	1660.0	1442.3	1439.9	1583.4	1624.0
37.5°	1604.9	1372.9	1372.9	1504.5	1435.1
40°	1538.0	1303.5	1310.8	1401.6	1267.7
42.5°	1456.7	1229.4	1239.0	1265.3	1143.3
45°	1368.2	1157.7	1164.9	1069.2	1047.6
47.5°	1270.1	1083.5	1085.9	887.4	1016.6
50°	1152.9	1007.0	997.4	760.6	1014.1
52.5°	1050.0	923.3	894.6	688.8	920.9
55°	949.6	834.7	772.6	633.9	853.9
57.5°	861.1	720.0	660.1	569.3	839.5
60°	779.7	607.5	562.1	499.9	770.2
62.5°	712.8	523.8	514.2	452.0	698.4
65°	641.0	466.4	464.0	411.4	593.2
67.5°	571.7	428.1	425.8	373.1	452.0
70°	497.5	387.5	382.7	332.5	334.8
72.5°	421.0	342.1	337.3	299.0	277.4
75°	344.4	289.4	287.0	260.7	224.8
77.5°	270.3	229.6	234.4	210.4	165.0
80°	193.7	167.5	172.3	150.7	124.4
82.5°	129.2	110.1	114.8	95.7	83.7
85°	71.8	62.2	64.5	50.2	38.3
87.5°	33.5	28.7	28.7	19.1	11.9
90°	41.3	26.2	24.3	16.9	9.4
92.5°	254.4	180.9	165.0	101.2	37.5
95°	625.8	352.5	323.3	206.6	90.0
97.5°	843.0	387.1	361.4	258.5	155.6
100°	922.0	416.2	392.8	299.5	206.2
102.5°	958.3	445.2	423.4	336.4	249.3
105°	985.1	488.3	469.9	396.2	322.4
107.5°	990.1	552.1	534.9	466.2	397.5
110°	982.6	587.7	572.2	510.1	448.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	982.9	630.8	616.1	556.9	497.7
115°	992.0	695.4	681.8	627.3	572.7
117.5°	1010.4	758.3	745.9	696.3	646.7
120°	1025.4	794.8	783.1	736.5	689.8
122.5°	1046.9	837.9	826.1	779.1	732.0
125°	1076.0	893.2	882.5	839.6	796.7
127.5°	1105.1	946.7	935.8	892.6	849.2
130°	1126.3	982.3	970.6	924.0	877.3
132.5°	1143.5	1011.3	999.7	953.0	906.3
135°	1162.2	1045.1	1034.5	992.0	949.5
137.5°	1190.4	1088.2	1077.7	1035.6	993.5
140°	1207.6	1117.2	1107.6	1068.8	1030.1
142.5°	1221.9	1138.8	1129.8	1094.1	1058.2
145°	1240.7	1171.6	1163.9	1132.5	1101.3
147.5°	1268.2	1212.9	1205.3	1174.9	1144.5
150°	1282.5	1234.5	1227.6	1200.1	1172.5
152.5°	1291.9	1248.5	1243.2	1222.4	1201.6
155°	1312.6	1279.4	1275.6	1260.2	1244.8
157.5°	1333.1	1310.3	1306.6	1291.6	1276.6
160°	1342.5	1324.4	1321.5	1309.9	1298.2
162.5°	1352.5	1339.4	1337.2	1328.4	1319.7
165°	1366.9	1361.0	1359.0	1351.1	1343.2
167.5°	1378.1	1373.1	1372.2	1368.4	1364.7
170°	1387.5	1387.2	1386.3	1382.5	1378.7
172.5°	1388.2	1388.2	1388.0	1387.1	1386.3
175°	1393.8	1396.6	1396.6	1396.6	1396.6
177.5°	1394.4	1396.6	1396.6	1396.6	1396.6
180°	1396.6	1396.6	1396.6	1396.6	1396.6



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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	12.58	13.37	13.60	14.40	15.78	15.41	16.21	16.44	17.24	18.62
	3H	13.05	13.76	14.08	14.80	16.20	16.76	17.47	17.79	18.51	19.91
	4H	13.24	13.91	14.28	14.95	16.36	17.20	17.87	18.24	18.91	20.32
	6H	13.35	13.97	14.41	15.02	16.44	17.48	18.10	18.54	19.15	20.57
	8H	13.35	13.94	14.41	15.00	16.42	17.56	18.15	18.62	19.21	20.62
	12H	13.32	13.88	14.38	14.94	16.38	17.59	18.15	18.66	19.21	20.65
4H	2H	13.60	14.28	14.65	15.32	16.73	15.81	16.49	16.87	17.53	18.94
	3H	14.62	15.18	15.68	16.25	17.68	17.32	17.88	18.38	18.95	20.37
	4H	14.90	15.41	15.96	16.47	17.91	17.84	18.36	18.91	19.42	20.86
	6H	15.02	15.46	16.09	16.54	17.98	18.21	18.65	19.28	19.73	21.17
	8H	15.02	15.43	16.10	16.51	17.96	18.31	18.72	19.39	19.80	21.25
	12H	14.99	15.36	16.08	16.45	17.91	18.37	18.74	19.46	19.83	21.29
8H	4H	15.35	15.76	16.42	16.83	18.29	17.96	18.37	19.04	19.45	20.90
	6H	15.60	15.94	16.70	17.06	18.51	18.40	18.74	19.50	19.86	21.31
	8H	15.65	15.94	16.75	17.05	18.52	18.55	18.85	19.66	19.95	21.42
	12H	15.63	15.89	16.74	16.99	18.50	18.65	18.91	19.76	20.01	21.52
12H	4H	15.35	15.72	16.44	16.81	18.27	17.92	18.30	19.02	19.39	20.84
	6H	15.66	15.96	16.77	17.07	18.54	18.39	18.69	19.50	19.79	21.26
	8H	15.73	15.99	16.84	17.09	18.60	18.55	18.82	19.66	19.91	21.42