

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: P936161

Luminaire Tested: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-6-3000K

Issue Date: 12/17/2024

**Test Information**

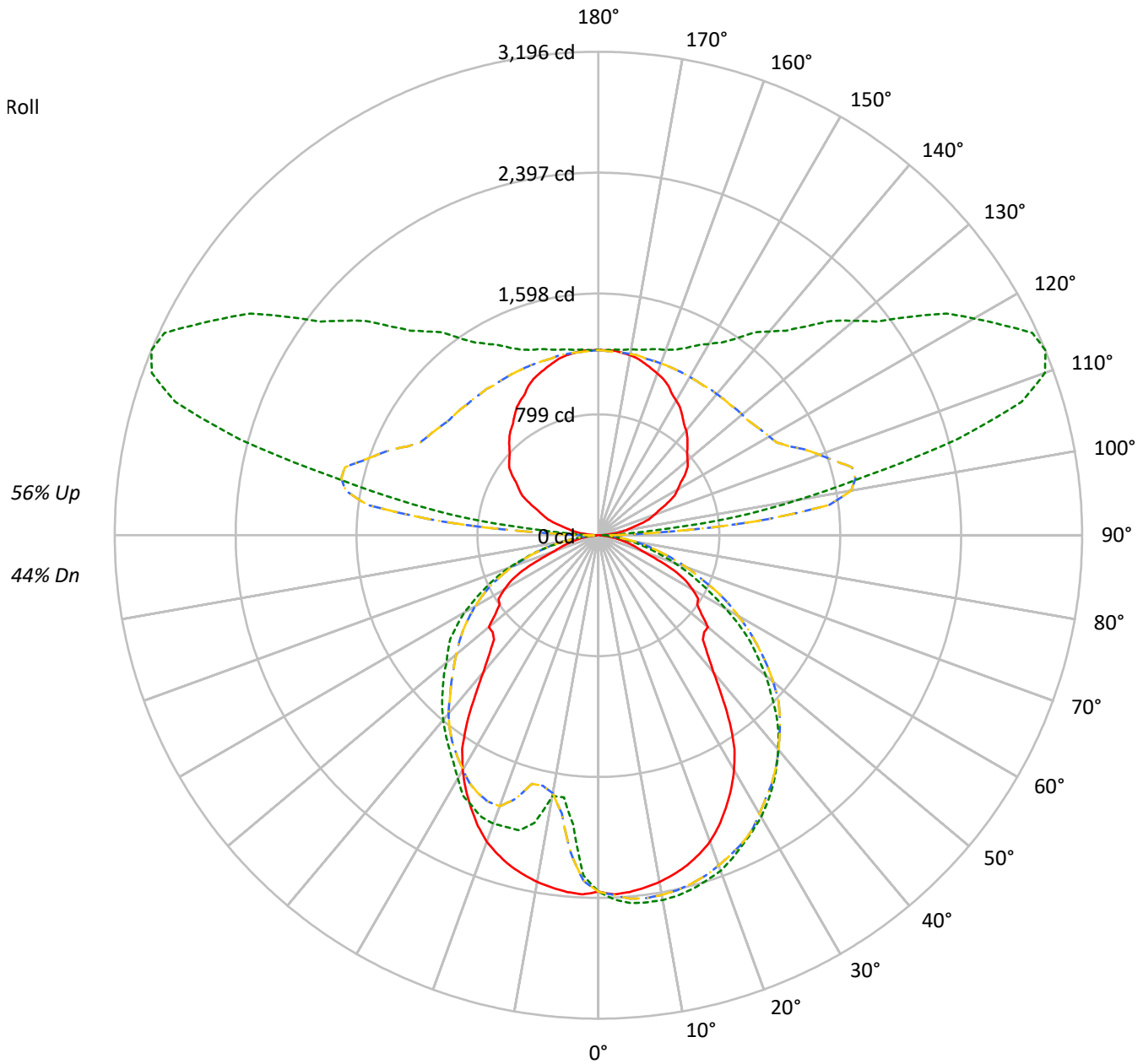
Test Method: LM-79-2019  
Report Number: P936161  
REPORT IS A COMBINATION OF REPORTS P933783 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-6-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 14051.1 lumens  
Efficiency: N/A  
Efficacy: 112.6 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°	14576	14576	14576	14576
5°	14680	14714	14680	11570
10°	14576	14494	14576	10362
15°	14413	14181	14413	11841
20°	14106	13808	14106	11865
25°	13483	13266	13483	11614
30°	12681	12815	12681	11062
35°	11299	12245	11299	10455
40°	9410	11574	9410	9997
45°	8402	10790	8402	9470
50°	8919	9853	8919	8941
55°	8383	8844	8383	8634
60°	8632	7511	8632	7909
65°	7814	6209	7814	6941
70°	5398	4949	5398	5818
75°	4716	3658	4716	4380
80°	3772	2418	3772	2632
85°	2128	1280	2128	1089

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 12886 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	212.7	1.5
10°-20°	603.9	4.3
20°-30°	933.5	6.6
30°-40°	1114.4	7.9
40°-50°	1121.0	8.0
50°-60°	975.4	6.9
60°-70°	691.6	4.9
70°-80°	365.9	2.6
80°-90°	95.8	0.7
90°-100°	596.8	4.2
100°-110°	1569.0	11.2
110°-120°	1626.9	11.6
120°-130°	1305.0	9.3
130°-140°	1024.0	7.3
140°-150°	785.9	5.6
150°-160°	566.0	4.0
160°-170°	346.3	2.5
170°-180°	117.0	0.8
0°-30°	1750.1	12.5
0°-40°	2864.6	20.4
0°-60°	4960.9	35.3
0°-90°	6114.1	43.5
90°-120°	3792.8	27.0
90°-150°	6907.6	49.2
90°-180°	7937.0	56.5
0°-180°	14051.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2356	2356	2356	2356	2356	
5°	2368	2441	2368	1919	2368	225
15°	2260	2419	2260	2020	2260	636
25°	1991	2256	1991	1975	1991	914
35°	1514	2013	1514	1719	1514	936
45°	976	1659	976	1456	976	782
55°	796	1224	796	1195	796	731
65°	553	738	553	825	553	528
75°	210	350	210	419	210	220
85°	36	89	36	76	36	48
90°	8	31	8	31	8	8
95°	79	361	79	361	79	88
105°	283	2457	283	2457	283	300
115°	502	3164	502	3164	502	496
125°	698	2519	698	2519	698	620
135°	832	1955	832	1955	832	644
145°	966	1586	966	1586	966	605
155°	1091	1366	1091	1366	1091	501
165°	1178	1272	1178	1272	1178	332
175°	1224	1232	1224	1232	1224	116
180°	1224	1224	1224	1224	1224	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2376.3	2376.3	2389.8	2394.2	2394.2	2387.5	2380.8	2387.5	2407.6	2414.3	2412.0
5°	2367.5	2385.3	2409.8	2414.3	2418.8	2416.5	2412.0	2416.5	2438.8	2443.3	2445.5
7.5°	2349.6	2383.0	2414.3	2420.9	2427.6	2420.9	2418.8	2423.1	2445.5	2449.9	2449.9
10°	2327.3	2374.1	2409.8	2414.3	2420.9	2414.3	2414.3	2423.1	2445.5	2449.9	2452.1
12.5°	2296.1	2360.8	2394.2	2398.6	2407.6	2405.3	2403.1	2412.0	2434.3	2438.8	2438.8
15°	2260.5	2336.2	2367.5	2371.9	2387.5	2383.0	2383.0	2392.0	2416.5	2423.1	2420.9
17.5°	2211.4	2305.0	2340.7	2347.3	2358.5	2356.3	2358.5	2367.5	2389.8	2394.2	2396.4
20°	2155.7	2262.7	2305.0	2311.7	2322.8	2322.8	2322.8	2334.0	2356.3	2365.2	2365.2
22.5°	2079.9	2218.1	2262.7	2267.2	2280.5	2280.5	2285.0	2300.5	2320.6	2322.8	2322.8
25°	1990.7	2169.1	2206.9	2220.3	2233.7	2240.4	2247.0	2256.0	2262.7	2260.5	2262.7
27.5°	1897.0	2106.6	2155.7	2164.6	2182.4	2189.1	2198.0	2200.2	2202.5	2209.2	2204.7
30°	1792.3	2019.7	2093.3	2102.1	2131.1	2135.6	2126.7	2131.1	2142.3	2146.7	2151.2
32.5°	1674.1	1890.4	2028.6	2048.6	2075.4	2062.1	2059.8	2066.5	2084.3	2084.3	2088.8
35°	1513.7	1790.1	1968.4	1986.3	2006.3	1990.7	1999.6	2001.8	2013.0	2019.7	2017.5
37.5°	1337.6	1703.1	1906.0	1919.4	1935.0	1914.9	1928.3	1935.0	1943.9	1939.5	1939.5
40°	1181.5	1567.2	1832.4	1841.4	1854.7	1839.1	1852.5	1857.0	1861.4	1857.0	1854.7
42.5°	1065.6	1417.8	1754.4	1765.6	1756.6	1767.8	1772.2	1781.2	1774.4	1765.6	1765.6
45°	976.4	1377.7	1669.7	1683.1	1669.7	1687.6	1694.2	1694.2	1674.1	1669.7	1667.5
47.5°	947.4	1297.4	1585.0	1585.0	1578.3	1600.6	1611.8	1596.1	1576.0	1569.3	1569.3
50°	945.2	1208.3	1469.0	1460.2	1491.4	1518.1	1507.0	1491.4	1475.7	1451.2	1451.2
52.5°	858.3	1099.0	1319.7	1353.1	1402.2	1417.8	1399.9	1384.4	1357.6	1346.4	1337.6
55°	795.8	985.3	1183.7	1250.6	1301.9	1321.9	1288.5	1272.9	1232.8	1226.1	1221.6
57.5°	782.5	820.3	1058.9	1143.6	1206.0	1203.8	1183.7	1154.7	1121.3	1114.7	1112.4
60°	717.8	592.9	925.1	1025.4	1090.1	1083.4	1065.6	1038.9	1007.6	1003.2	998.7
62.5°	650.9	430.3	773.5	887.3	978.6	976.4	960.8	920.6	898.4	887.3	878.3
65°	552.9	361.2	550.6	737.9	869.4	873.8	840.4	811.5	787.0	773.5	771.3
67.5°	421.3	294.2	372.3	615.2	764.6	760.2	717.8	704.4	673.2	666.5	653.2
70°	312.1	196.2	258.6	499.3	662.1	650.9	617.5	601.9	572.9	557.3	548.4
72.5°	258.6	158.3	189.4	387.9	557.3	543.9	514.9	497.1	472.6	459.3	450.3
75°	209.6	167.2	144.9	287.6	452.5	443.6	416.8	399.0	379.0	361.2	363.4
77.5°	153.8	156.1	115.9	211.8	358.9	345.5	329.9	307.7	298.7	280.9	280.9
80°	115.9	122.6	87.0	144.9	258.6	258.6	245.2	229.6	214.0	205.1	205.1
82.5°	78.0	78.0	64.6	91.4	176.1	169.4	160.5	156.1	147.1	142.6	142.6
85°	35.7	44.6	40.1	55.8	95.8	100.3	100.3	95.8	93.6	89.1	91.4
87.5°	11.2	20.0	24.5	31.2	49.0	51.3	53.5	53.5	53.5	55.8	55.8
90°	8.3	14.8	21.3	23.0	36.2	53.7	62.4	55.5	41.6	31.3	31.3
92.5°	32.8	88.7	144.7	158.6	223.0	308.8	351.7	308.2	221.3	156.2	149.9
95°	78.9	181.1	283.4	309.0	548.7	868.2	1028.0	917.3	696.0	530.0	511.2
97.5°	136.4	226.6	316.8	339.4	739.0	1271.9	1538.3	1468.3	1328.4	1223.6	1187.7
100°	180.8	262.6	344.4	364.8	808.3	1399.6	1695.2	1700.3	1710.6	1718.2	1675.6
102.5°	218.6	294.9	371.3	390.3	840.1	1439.7	1739.6	1828.6	2006.8	2140.5	2104.0
105°	282.6	347.3	411.9	428.1	863.6	1444.3	1734.6	1934.4	2333.9	2633.6	2613.9
107.5°	348.4	408.7	468.9	483.9	867.9	1380.0	1636.0	1914.7	2472.0	2890.0	2894.7
110°	392.8	447.2	501.6	515.2	861.4	1323.0	1553.8	1865.3	2488.4	2955.7	2976.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	436.3	488.2	540.0	553.0	861.7	1273.3	1479.1	1797.9	2435.5	2913.8	2945.2
115°	502.0	549.9	597.8	609.7	869.6	1216.2	1389.5	1696.6	2310.9	2771.6	2815.1
117.5°	566.9	610.4	653.9	664.8	885.9	1180.5	1327.9	1605.1	2159.4	2575.2	2623.5
120°	604.8	645.7	686.7	696.8	898.9	1168.5	1303.2	1556.5	2063.0	2442.9	2489.8
122.5°	641.8	683.1	724.3	734.6	917.8	1162.2	1284.3	1512.4	1968.5	2310.6	2356.9
125°	698.4	736.0	773.7	783.1	943.3	1157.0	1263.8	1457.5	1845.0	2135.6	2178.2
127.5°	744.4	782.4	820.4	829.9	968.8	1153.9	1246.5	1412.8	1745.5	1995.1	2031.1
130°	769.1	810.1	851.0	861.2	987.5	1155.8	1240.0	1388.1	1684.2	1906.4	1939.6
132.5°	794.6	835.5	876.5	886.6	1002.5	1157.0	1234.2	1366.7	1631.9	1830.7	1860.5
135°	832.4	869.6	906.9	916.2	1018.9	1155.8	1224.4	1335.4	1557.4	1723.9	1749.6
137.5°	871.0	907.9	944.8	954.0	1043.6	1163.0	1222.7	1316.6	1504.3	1645.1	1666.0
140°	903.1	937.1	971.0	979.5	1058.6	1164.2	1217.0	1298.0	1460.2	1581.8	1601.4
142.5°	927.7	959.1	990.5	998.4	1071.3	1168.4	1217.0	1288.2	1430.6	1537.4	1554.2
145°	965.5	992.9	1020.3	1027.2	1087.7	1168.4	1208.7	1266.9	1383.5	1470.9	1483.6
147.5°	1003.3	1030.0	1056.6	1063.3	1111.8	1176.4	1208.7	1254.6	1346.2	1414.9	1425.6
150°	1028.0	1052.0	1076.1	1082.2	1124.3	1180.6	1208.7	1247.5	1324.8	1382.9	1391.5
152.5°	1053.4	1071.7	1090.0	1094.5	1132.6	1183.3	1208.7	1241.7	1307.9	1357.4	1363.9
155°	1091.2	1104.7	1118.3	1121.6	1150.7	1189.4	1208.7	1235.0	1287.6	1327.0	1331.3
157.5°	1119.1	1132.3	1145.5	1148.7	1168.8	1195.4	1208.7	1229.2	1270.1	1300.8	1303.8
160°	1138.1	1148.3	1158.5	1161.0	1176.9	1198.1	1208.7	1226.3	1261.3	1287.6	1289.3
162.5°	1157.0	1164.6	1172.3	1174.2	1185.7	1201.1	1208.7	1223.5	1253.1	1275.3	1277.0
165°	1177.5	1184.5	1191.3	1193.1	1198.3	1205.2	1208.7	1219.3	1240.5	1256.4	1258.2
167.5°	1196.4	1199.7	1203.0	1203.8	1208.2	1214.1	1217.0	1223.9	1237.8	1248.2	1248.9
170°	1208.7	1212.0	1215.3	1216.1	1216.4	1216.8	1217.0	1223.9	1237.8	1248.2	1248.2
172.5°	1215.3	1216.0	1216.8	1217.0	1217.0	1217.0	1217.0	1222.4	1233.4	1241.6	1241.0
175°	1224.4	1224.4	1224.4	1224.4	1221.9	1218.6	1217.0	1220.4	1227.3	1232.5	1232.5
177.5°	1224.4	1224.4	1224.4	1224.4	1222.4	1219.9	1218.6	1221.3	1226.8	1230.9	1230.2
180°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2416.5	2409.8	2416.5	2412.0	2414.3	2407.6	2387.5	2380.8	2387.5	2394.2	2394.2
5°	2445.5	2441.0	2445.5	2445.5	2443.3	2438.8	2416.5	2412.0	2416.5	2418.8	2414.3
7.5°	2454.4	2447.7	2454.4	2449.9	2449.9	2445.5	2423.1	2418.8	2420.9	2427.6	2420.9
10°	2454.4	2447.7	2454.4	2452.1	2449.9	2445.5	2423.1	2414.3	2414.3	2420.9	2414.3
12.5°	2443.3	2438.8	2443.3	2438.8	2438.8	2434.3	2412.0	2403.1	2405.3	2407.6	2398.6
15°	2425.4	2418.8	2425.4	2420.9	2423.1	2416.5	2392.0	2383.0	2383.0	2387.5	2371.9
17.5°	2398.6	2389.8	2398.6	2396.4	2394.2	2389.8	2367.5	2358.5	2356.3	2358.5	2347.3
20°	2367.5	2360.8	2367.5	2365.2	2365.2	2356.3	2334.0	2322.8	2322.8	2322.8	2311.7
22.5°	2318.4	2311.7	2318.4	2322.8	2322.8	2320.6	2300.5	2285.0	2280.5	2280.5	2267.2
25°	2262.7	2256.0	2262.7	2262.7	2260.5	2262.7	2256.0	2247.0	2240.4	2233.7	2220.3
27.5°	2209.2	2204.7	2209.2	2204.7	2209.2	2202.5	2200.2	2198.0	2189.1	2182.4	2164.6
30°	2155.7	2151.2	2155.7	2151.2	2146.7	2142.3	2131.1	2126.7	2135.6	2131.1	2102.1
32.5°	2088.8	2084.3	2088.8	2088.8	2084.3	2084.3	2066.5	2059.8	2062.1	2075.4	2048.6
35°	2019.7	2013.0	2019.7	2017.5	2019.7	2013.0	2001.8	1999.6	1990.7	2006.3	1986.3
37.5°	1939.5	1932.7	1939.5	1939.5	1939.5	1943.9	1935.0	1928.3	1914.9	1935.0	1919.4
40°	1857.0	1848.0	1857.0	1854.7	1857.0	1861.4	1857.0	1852.5	1839.1	1854.7	1841.4
42.5°	1763.4	1761.1	1763.4	1765.6	1765.6	1774.4	1781.2	1772.2	1767.8	1756.6	1765.6
45°	1663.0	1658.6	1663.0	1667.5	1669.7	1674.1	1694.2	1694.2	1687.6	1669.7	1683.1
47.5°	1556.0	1544.8	1556.0	1569.3	1569.3	1576.0	1596.1	1611.8	1600.6	1578.3	1585.0
50°	1442.3	1444.5	1442.3	1451.2	1451.2	1475.7	1491.4	1507.0	1518.1	1491.4	1460.2
52.5°	1330.9	1328.6	1330.9	1337.6	1346.4	1357.6	1384.4	1399.9	1417.8	1402.2	1353.1
55°	1219.3	1223.8	1219.3	1221.6	1226.1	1232.8	1272.9	1288.5	1321.9	1301.9	1250.6
57.5°	1107.9	1101.2	1107.9	1112.4	1114.7	1121.3	1154.7	1183.7	1203.8	1206.0	1143.6
60°	978.6	969.7	978.6	998.7	1003.2	1007.6	1038.9	1065.6	1083.4	1090.1	1025.4
62.5°	865.0	849.3	865.0	878.3	887.3	898.4	920.6	960.8	976.4	978.6	887.3
65°	744.5	737.9	744.5	771.3	773.5	787.0	811.5	840.4	873.8	869.4	737.9
67.5°	635.4	635.4	635.4	653.2	666.5	673.2	704.4	717.8	760.2	764.6	615.2
70°	535.0	532.8	535.0	548.4	557.3	572.9	601.9	617.5	650.9	662.1	499.3
72.5°	439.2	437.0	439.2	450.3	459.3	472.6	497.1	514.9	543.9	557.3	387.9
75°	354.5	350.0	354.5	363.4	361.2	379.0	399.0	416.8	443.6	452.5	287.6
77.5°	272.0	272.0	272.0	280.9	280.9	298.7	307.7	329.9	345.5	358.9	211.8
80°	202.9	200.6	202.9	205.1	205.1	214.0	229.6	245.2	258.6	258.6	144.9
82.5°	142.6	138.2	142.6	142.6	142.6	147.1	156.1	160.5	169.4	176.1	91.4
85°	89.1	89.1	89.1	91.4	89.1	93.6	95.8	100.3	100.3	95.8	55.8
87.5°	58.0	55.8	58.0	55.8	55.8	53.5	53.5	53.5	51.3	49.0	31.2
90°	31.3	31.3	31.3	31.3	31.3	41.6	55.5	62.4	53.7	36.2	23.0
92.5°	125.1	100.2	125.1	149.9	156.2	221.3	308.2	351.7	308.8	223.0	158.6
95°	435.9	360.7	435.9	511.2	530.0	696.0	917.3	1028.0	868.2	548.7	309.0
97.5°	1044.6	901.4	1044.6	1187.7	1223.6	1328.4	1468.3	1538.3	1271.9	739.0	339.4
100°	1505.1	1334.5	1505.1	1675.6	1718.2	1710.6	1700.3	1695.2	1399.6	808.3	364.8
102.5°	1957.9	1811.8	1957.9	2104.0	2140.5	2006.8	1828.6	1739.6	1439.7	840.1	390.3
105°	2535.4	2456.9	2535.4	2613.9	2633.6	2333.9	1934.4	1734.6	1444.3	863.6	428.1
107.5°	2913.7	2932.6	2913.7	2894.7	2890.0	2472.0	1914.7	1636.0	1380.0	867.9	483.9
110°	3057.9	3139.8	3057.9	2976.1	2955.7	2488.4	1865.3	1553.8	1323.0	861.4	515.2





TEST NUMBER: P936161

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	3070.8	3196.4	3070.8	2945.2	2913.8	2435.5	1797.9	1479.1	1273.3	861.7	553.0
115°	2989.3	3163.6	2989.3	2815.1	2771.6	2310.9	1696.6	1389.5	1216.2	869.6	609.7
117.5°	2816.7	3009.9	2816.7	2623.5	2575.2	2159.4	1605.1	1327.9	1180.5	885.9	664.8
120°	2677.6	2865.3	2677.6	2489.8	2442.9	2063.0	1556.5	1303.2	1168.5	898.9	696.8
122.5°	2542.1	2727.2	2542.1	2356.9	2310.6	1968.5	1512.4	1284.3	1162.2	917.8	734.6
125°	2348.8	2519.3	2348.8	2178.2	2135.6	1845.0	1457.5	1263.8	1157.0	943.3	783.1
127.5°	2174.9	2318.9	2174.9	2031.1	1995.1	1745.5	1412.8	1246.5	1153.9	968.8	829.9
130°	2072.5	2205.4	2072.5	1939.6	1906.4	1684.2	1388.1	1240.0	1155.8	987.5	861.2
132.5°	1979.5	2098.6	1979.5	1860.5	1830.7	1631.9	1366.7	1234.2	1157.0	1002.5	886.6
135°	1852.2	1954.8	1852.2	1749.6	1723.9	1557.4	1335.4	1224.4	1155.8	1018.9	916.2
137.5°	1750.1	1834.1	1750.1	1666.0	1645.1	1504.3	1316.6	1222.7	1163.0	1043.6	954.0
140°	1679.9	1758.4	1679.9	1601.4	1581.8	1460.2	1298.0	1217.0	1164.2	1058.6	979.5
142.5°	1621.9	1689.4	1621.9	1554.2	1537.4	1430.6	1288.2	1217.0	1168.4	1071.3	998.4
145°	1534.7	1585.9	1534.7	1483.6	1470.9	1383.5	1266.9	1208.7	1168.4	1087.7	1027.2
147.5°	1467.9	1510.3	1467.9	1425.6	1414.9	1346.2	1254.6	1208.7	1176.4	1111.8	1063.3
150°	1425.8	1460.2	1425.8	1391.5	1382.9	1324.8	1247.5	1208.7	1180.6	1124.3	1082.2
152.5°	1389.8	1415.8	1389.8	1363.9	1357.4	1307.9	1241.7	1208.7	1183.3	1132.6	1094.5
155°	1348.5	1365.7	1348.5	1331.3	1327.0	1287.6	1235.0	1208.7	1189.4	1150.7	1121.6
157.5°	1315.9	1327.9	1315.9	1303.8	1300.8	1270.1	1229.2	1208.7	1195.4	1168.8	1148.7
160°	1296.3	1303.2	1296.3	1289.3	1287.6	1261.3	1226.3	1208.7	1198.1	1176.9	1161.0
162.5°	1283.5	1290.0	1283.5	1277.0	1275.3	1253.1	1223.5	1208.7	1201.1	1185.7	1174.2
165°	1265.0	1272.0	1265.0	1258.2	1256.4	1240.5	1219.3	1208.7	1205.2	1198.3	1193.1
167.5°	1251.8	1254.7	1251.8	1248.9	1248.2	1237.8	1223.9	1217.0	1214.1	1208.2	1203.8
170°	1248.2	1248.2	1248.2	1248.2	1248.2	1237.8	1223.9	1217.0	1216.8	1216.4	1216.1
172.5°	1238.4	1235.9	1238.4	1241.0	1241.6	1233.4	1222.4	1217.0	1217.0	1217.0	1217.0
175°	1232.5	1232.5	1232.5	1232.5	1232.5	1227.3	1220.4	1217.0	1218.6	1221.9	1224.4
177.5°	1227.2	1224.4	1227.2	1230.2	1230.9	1226.8	1221.3	1218.6	1219.9	1222.4	1224.4
180°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4



TEST NUMBER: P936161

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2389.8	2376.3	2376.3	2354.1	2345.2	2338.5	2327.3	2293.9	2285.0	2276.0	2289.4
5°	2409.8	2385.3	2367.5	2327.3	2293.9	2280.5	2238.2	2157.9	2104.4	2064.3	2042.0
7.5°	2414.3	2383.0	2349.6	2287.2	2206.9	2171.2	2042.0	1894.8	1854.7	1819.0	1796.7
10°	2409.8	2374.1	2327.3	2233.7	2044.2	1981.8	1852.5	1756.6	1732.1	1725.4	1732.1
12.5°	2394.2	2360.8	2296.1	2140.1	1874.8	1832.4	1756.6	1700.9	1696.4	1707.6	1767.8
15°	2367.5	2336.2	2260.5	2015.3	1781.2	1749.9	1696.4	1676.4	1700.9	1778.9	1959.5
17.5°	2340.7	2305.0	2211.4	1892.7	1709.8	1687.6	1649.6	1689.8	1828.0	1932.7	1993.0
20°	2305.0	2262.7	2155.7	1803.4	1658.6	1638.5	1620.6	1801.2	1906.0	1943.9	1977.3
22.5°	2262.7	2218.1	2079.9	1741.1	1605.0	1589.5	1600.6	1863.7	1906.0	1932.7	1961.7
25°	2206.9	2169.1	1990.7	1692.0	1562.7	1544.8	1587.2	1857.0	1881.5	1888.2	1946.1
27.5°	2155.7	2106.6	1897.0	1647.4	1511.4	1504.7	1598.3	1828.0	1845.8	1852.5	1914.9
30°	2093.3	2019.7	1792.3	1600.6	1457.9	1455.7	1600.6	1792.3	1787.9	1805.7	1868.1
32.5°	2028.6	1890.4	1674.1	1542.6	1406.7	1404.4	1585.0	1738.8	1734.4	1758.9	1805.7
35°	1968.4	1790.1	1513.7	1475.7	1342.0	1344.2	1547.1	1676.4	1678.6	1700.9	1729.9
37.5°	1906.0	1703.1	1337.6	1402.2	1279.6	1279.6	1495.8	1618.4	1614.0	1620.6	1660.8
40°	1832.4	1567.2	1181.5	1306.3	1221.6	1215.0	1433.4	1556.0	1540.4	1538.2	1593.9
42.5°	1754.4	1417.8	1065.6	1179.3	1154.7	1145.8	1357.6	1480.2	1451.2	1457.9	1529.2
45°	1669.7	1377.7	976.4	996.4	1085.7	1078.9	1275.1	1393.2	1373.2	1391.1	1464.6
47.5°	1585.0	1297.4	947.4	827.0	1012.1	1009.9	1183.7	1308.6	1297.4	1315.3	1393.2
50°	1469.0	1208.3	945.2	708.9	929.6	938.5	1074.5	1226.1	1226.1	1241.7	1324.1
52.5°	1319.7	1099.0	858.3	642.0	833.8	860.5	978.6	1154.7	1159.2	1174.8	1248.3
55°	1183.7	985.3	795.8	590.7	720.0	778.0	885.0	1081.2	1090.1	1105.7	1172.5
57.5°	1058.9	820.3	782.5	530.6	615.2	671.0	802.5	1009.9	1014.3	1027.7	1092.3
60°	925.1	592.9	717.8	465.9	523.9	566.2	726.7	925.1	940.7	949.6	1005.4
62.5°	773.5	430.3	650.9	421.3	479.3	488.2	664.3	844.8	865.0	871.6	905.1
65°	550.6	361.2	552.9	383.5	432.5	434.7	597.4	762.4	780.2	791.3	815.9
67.5°	372.3	294.2	421.3	347.7	396.8	399.0	532.8	666.5	691.0	700.0	715.6
70°	258.6	196.2	312.1	309.9	356.7	361.2	463.7	579.6	601.9	608.6	617.5
72.5°	189.4	158.3	258.6	278.7	314.3	318.8	392.3	481.5	503.8	510.5	514.9
75°	144.9	167.2	209.6	243.0	267.5	269.7	321.0	392.3	408.0	412.5	414.6
77.5°	115.9	156.1	153.8	196.2	218.4	214.0	251.9	303.2	316.5	316.5	316.5
80°	87.0	122.6	115.9	140.4	160.5	156.1	180.6	216.2	220.7	225.1	222.9
82.5°	64.6	78.0	78.0	89.1	107.0	102.6	120.4	140.4	140.4	140.4	144.9
85°	40.1	44.6	35.7	46.8	60.2	58.0	66.8	75.8	78.0	78.0	73.6
87.5°	24.5	20.0	11.2	17.8	26.8	26.8	31.2	33.5	31.2	31.2	31.2
90°	21.3	14.8	8.3	14.8	21.3	23.0	36.2	53.7	62.4	55.5	41.6
92.5°	144.7	88.7	32.8	88.7	144.7	158.6	223.0	308.8	351.7	308.2	221.3
95°	283.4	181.1	78.9	181.1	283.4	309.0	548.7	868.2	1028.0	917.3	696.0
97.5°	316.8	226.6	136.4	226.6	316.8	339.4	739.0	1271.9	1538.3	1468.3	1328.4
100°	344.4	262.6	180.8	262.6	344.4	364.8	808.3	1399.6	1695.2	1700.3	1710.6
102.5°	371.3	294.9	218.6	294.9	371.3	390.3	840.1	1439.7	1739.6	1828.6	2006.8
105°	411.9	347.3	282.6	347.3	411.9	428.1	863.6	1444.3	1734.6	1934.4	2333.9
107.5°	468.9	408.7	348.4	408.7	468.9	483.9	867.9	1380.0	1636.0	1914.7	2472.0
110°	501.6	447.2	392.8	447.2	501.6	515.2	861.4	1323.0	1553.8	1865.3	2488.4



TEST NUMBER: P936161

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	540.0	488.2	436.3	488.2	540.0	553.0	861.7	1273.3	1479.1	1797.9	2435.5
115°	597.8	549.9	502.0	549.9	597.8	609.7	869.6	1216.2	1389.5	1696.6	2310.9
117.5°	653.9	610.4	566.9	610.4	653.9	664.8	885.9	1180.5	1327.9	1605.1	2159.4
120°	686.7	645.7	604.8	645.7	686.7	696.8	898.9	1168.5	1303.2	1556.5	2063.0
122.5°	724.3	683.1	641.8	683.1	724.3	734.6	917.8	1162.2	1284.3	1512.4	1968.5
125°	773.7	736.0	698.4	736.0	773.7	783.1	943.3	1157.0	1263.8	1457.5	1845.0
127.5°	820.4	782.4	744.4	782.4	820.4	829.9	968.8	1153.9	1246.5	1412.8	1745.5
130°	851.0	810.1	769.1	810.1	851.0	861.2	987.5	1155.8	1240.0	1388.1	1684.2
132.5°	876.5	835.5	794.6	835.5	876.5	886.6	1002.5	1157.0	1234.2	1366.7	1631.9
135°	906.9	869.6	832.4	869.6	906.9	916.2	1018.9	1155.8	1224.4	1335.4	1557.4
137.5°	944.8	907.9	871.0	907.9	944.8	954.0	1043.6	1163.0	1222.7	1316.6	1504.3
140°	971.0	937.1	903.1	937.1	971.0	979.5	1058.6	1164.2	1217.0	1298.0	1460.2
142.5°	990.5	959.1	927.7	959.1	990.5	998.4	1071.3	1168.4	1217.0	1288.2	1430.6
145°	1020.3	992.9	965.5	992.9	1020.3	1027.2	1087.7	1168.4	1208.7	1266.9	1383.5
147.5°	1056.6	1030.0	1003.3	1030.0	1056.6	1063.3	1111.8	1176.4	1208.7	1254.6	1346.2
150°	1076.1	1052.0	1028.0	1052.0	1076.1	1082.2	1124.3	1180.6	1208.7	1247.5	1324.8
152.5°	1090.0	1071.7	1053.4	1071.7	1090.0	1094.5	1132.6	1183.3	1208.7	1241.7	1307.9
155°	1118.3	1104.7	1091.2	1104.7	1118.3	1121.6	1150.7	1189.4	1208.7	1235.0	1287.6
157.5°	1145.5	1132.3	1119.1	1132.3	1145.5	1148.7	1168.8	1195.4	1208.7	1229.2	1270.1
160°	1158.5	1148.3	1138.1	1148.3	1158.5	1161.0	1176.9	1198.1	1208.7	1226.3	1261.3
162.5°	1172.3	1164.6	1157.0	1164.6	1172.3	1174.2	1185.7	1201.1	1208.7	1223.5	1253.1
165°	1191.3	1184.5	1177.5	1184.5	1191.3	1193.1	1198.3	1205.2	1208.7	1219.3	1240.5
167.5°	1203.0	1199.7	1196.4	1199.7	1203.0	1203.8	1208.2	1214.1	1217.0	1223.9	1237.8
170°	1215.3	1212.0	1208.7	1212.0	1215.3	1216.1	1216.4	1216.8	1217.0	1223.9	1237.8
172.5°	1216.8	1216.0	1215.3	1216.0	1216.8	1217.0	1217.0	1217.0	1217.0	1222.4	1233.4
175°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1221.9	1218.6	1217.0	1220.4	1227.3
177.5°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1222.4	1219.9	1218.6	1221.3	1226.8
180°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4



TEST NUMBER: P936161

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-6-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2273.8	2267.2	2276.0	2251.5	2276.0	2267.2	2273.8	2289.4	2276.0	2285.0	2293.9
5°	1995.1	1984.0	1948.3	1919.4	1948.3	1984.0	1995.1	2042.0	2064.3	2104.4	2157.9
7.5°	1783.4	1774.4	1765.6	1747.7	1765.6	1774.4	1783.4	1796.7	1819.0	1854.7	1894.8
10°	1736.6	1738.8	1752.2	1749.9	1752.2	1738.8	1736.6	1732.1	1725.4	1732.1	1756.6
12.5°	1857.0	1877.0	1950.6	1946.1	1950.6	1877.0	1857.0	1767.8	1707.6	1696.4	1700.9
15°	1995.1	2001.8	2017.5	2019.7	2017.5	2001.8	1995.1	1959.5	1778.9	1700.9	1676.4
17.5°	2008.5	2010.8	2021.9	2021.9	2021.9	2010.8	2008.5	1993.0	1932.7	1828.0	1689.8
20°	1997.4	2001.8	2024.1	2028.6	2024.1	2001.8	1997.4	1977.3	1943.9	1906.0	1801.2
22.5°	1993.0	2001.8	2019.7	2017.5	2019.7	2001.8	1993.0	1961.7	1932.7	1906.0	1863.7
25°	1970.6	1970.6	1972.8	1975.1	1972.8	1970.6	1970.6	1946.1	1888.2	1881.5	1857.0
27.5°	1923.8	1928.3	1941.7	1939.5	1941.7	1928.3	1923.8	1914.9	1852.5	1845.8	1828.0
30°	1881.5	1877.0	1865.9	1857.0	1865.9	1877.0	1881.5	1868.1	1805.7	1787.9	1792.3
32.5°	1810.2	1799.0	1787.9	1781.2	1787.9	1799.0	1810.2	1805.7	1758.9	1734.4	1738.8
35°	1725.4	1727.6	1725.4	1718.7	1725.4	1727.6	1725.4	1729.9	1700.9	1678.6	1676.4
37.5°	1665.3	1669.7	1667.5	1658.6	1667.5	1669.7	1665.3	1660.8	1620.6	1614.0	1618.4
40°	1602.8	1605.0	1602.8	1596.1	1602.8	1605.0	1602.8	1593.9	1538.2	1540.4	1556.0
42.5°	1542.6	1540.4	1533.7	1529.2	1533.7	1540.4	1542.6	1529.2	1457.9	1451.2	1480.2
45°	1473.5	1475.7	1462.4	1455.7	1462.4	1475.7	1473.5	1464.6	1391.1	1373.2	1393.2
47.5°	1404.4	1404.4	1393.2	1386.6	1393.2	1404.4	1404.4	1393.2	1315.3	1297.4	1308.6
50°	1330.9	1328.6	1313.1	1310.8	1313.1	1328.6	1330.9	1324.1	1241.7	1226.1	1226.1
52.5°	1246.1	1246.1	1248.3	1252.8	1248.3	1246.1	1246.1	1248.3	1174.8	1159.2	1154.7
55°	1172.5	1174.8	1190.4	1194.8	1190.4	1174.8	1172.5	1172.5	1105.7	1090.1	1081.2
57.5°	1096.8	1096.8	1107.9	1107.9	1107.9	1096.8	1096.8	1092.3	1027.7	1014.3	1009.9
60°	1009.9	1014.3	1023.2	1021.0	1023.2	1014.3	1009.9	1005.4	949.6	940.7	925.1
62.5°	918.4	922.9	925.1	920.6	925.1	922.9	918.4	905.1	871.6	865.0	844.8
65°	822.6	827.0	829.3	824.8	829.3	827.0	822.6	815.9	791.3	780.2	762.4
67.5°	724.5	722.2	720.0	729.0	720.0	722.2	724.5	715.6	700.0	691.0	666.5
70°	624.2	624.2	621.9	626.4	621.9	624.2	624.2	617.5	608.6	601.9	579.6
72.5°	517.1	514.9	523.9	517.1	523.9	514.9	517.1	514.9	510.5	503.8	481.5
75°	412.5	416.8	412.5	419.1	412.5	416.8	412.5	414.6	412.5	408.0	392.3
77.5°	314.3	318.8	314.3	314.3	314.3	318.8	314.3	316.5	316.5	316.5	303.2
80°	222.9	220.7	220.7	218.4	220.7	220.7	222.9	222.9	225.1	220.7	216.2
82.5°	142.6	140.4	140.4	144.9	140.4	140.4	142.6	144.9	140.4	140.4	140.4
85°	78.0	80.3	75.8	75.8	75.8	80.3	78.0	73.6	78.0	78.0	75.8
87.5°	29.0	26.8	26.8	26.8	26.8	26.8	29.0	31.2	31.2	31.2	33.5
90°	31.3	31.3	31.3	31.3	31.3	31.3	31.3	41.6	55.5	62.4	53.7
92.5°	156.2	149.9	125.1	100.2	125.1	149.9	156.2	221.3	308.2	351.7	308.8
95°	530.0	511.2	435.9	360.7	435.9	511.2	530.0	696.0	917.3	1028.0	868.2
97.5°	1223.6	1187.7	1044.6	901.4	1044.6	1187.7	1223.6	1328.4	1468.3	1538.3	1271.9
100°	1718.2	1675.6	1505.1	1334.5	1505.1	1675.6	1718.2	1710.6	1700.3	1695.2	1399.6
102.5°	2140.5	2104.0	1957.9	1811.8	1957.9	2104.0	2140.5	2006.8	1828.6	1739.6	1439.7
105°	2633.6	2613.9	2535.4	2456.9	2535.4	2613.9	2633.6	2333.9	1934.4	1734.6	1444.3
107.5°	2890.0	2894.7	2913.7	2932.6	2913.7	2894.7	2890.0	2472.0	1914.7	1636.0	1380.0
110°	2955.7	2976.1	3057.9	3139.8	3057.9	2976.1	2955.7	2488.4	1865.3	1553.8	1323.0



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2913.8	2945.2	3070.8	3196.4	3070.8	2945.2	2913.8	2435.5	1797.9	1479.1	1273.3
115°	2771.6	2815.1	2989.3	3163.6	2989.3	2815.1	2771.6	2310.9	1696.6	1389.5	1216.2
117.5°	2575.2	2623.5	2816.7	3009.9	2816.7	2623.5	2575.2	2159.4	1605.1	1327.9	1180.5
120°	2442.9	2489.8	2677.6	2865.3	2677.6	2489.8	2442.9	2063.0	1556.5	1303.2	1168.5
122.5°	2310.6	2356.9	2542.1	2727.2	2542.1	2356.9	2310.6	1968.5	1512.4	1284.3	1162.2
125°	2135.6	2178.2	2348.8	2519.3	2348.8	2178.2	2135.6	1845.0	1457.5	1263.8	1157.0
127.5°	1995.1	2031.1	2174.9	2318.9	2174.9	2031.1	1995.1	1745.5	1412.8	1246.5	1153.9
130°	1906.4	1939.6	2072.5	2205.4	2072.5	1939.6	1906.4	1684.2	1388.1	1240.0	1155.8
132.5°	1830.7	1860.5	1979.5	2098.6	1979.5	1860.5	1830.7	1631.9	1366.7	1234.2	1157.0
135°	1723.9	1749.6	1852.2	1954.8	1852.2	1749.6	1723.9	1557.4	1335.4	1224.4	1155.8
137.5°	1645.1	1666.0	1750.1	1834.1	1750.1	1666.0	1645.1	1504.3	1316.6	1222.7	1163.0
140°	1581.8	1601.4	1679.9	1758.4	1679.9	1601.4	1581.8	1460.2	1298.0	1217.0	1164.2
142.5°	1537.4	1554.2	1621.9	1689.4	1621.9	1554.2	1537.4	1430.6	1288.2	1217.0	1168.4
145°	1470.9	1483.6	1534.7	1585.9	1534.7	1483.6	1470.9	1383.5	1266.9	1208.7	1168.4
147.5°	1414.9	1425.6	1467.9	1510.3	1467.9	1425.6	1414.9	1346.2	1254.6	1208.7	1176.4
150°	1382.9	1391.5	1425.8	1460.2	1425.8	1391.5	1382.9	1324.8	1247.5	1208.7	1180.6
152.5°	1357.4	1363.9	1389.8	1415.8	1389.8	1363.9	1357.4	1307.9	1241.7	1208.7	1183.3
155°	1327.0	1331.3	1348.5	1365.7	1348.5	1331.3	1327.0	1287.6	1235.0	1208.7	1189.4
157.5°	1300.8	1303.8	1315.9	1327.9	1315.9	1303.8	1300.8	1270.1	1229.2	1208.7	1195.4
160°	1287.6	1289.3	1296.3	1303.2	1296.3	1289.3	1287.6	1261.3	1226.3	1208.7	1198.1
162.5°	1275.3	1277.0	1283.5	1290.0	1283.5	1277.0	1275.3	1253.1	1223.5	1208.7	1201.1
165°	1256.4	1258.2	1265.0	1272.0	1265.0	1258.2	1256.4	1240.5	1219.3	1208.7	1205.2
167.5°	1248.2	1248.9	1251.8	1254.7	1251.8	1248.9	1248.2	1237.8	1223.9	1217.0	1214.1
170°	1248.2	1248.2	1248.2	1248.2	1248.2	1248.2	1248.2	1237.8	1223.9	1217.0	1216.8
172.5°	1241.6	1241.0	1238.4	1235.9	1238.4	1241.0	1241.6	1233.4	1222.4	1217.0	1217.0
175°	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1232.5	1227.3	1220.4	1217.0	1218.6
177.5°	1230.9	1230.2	1227.2	1224.4	1227.2	1230.2	1230.9	1226.8	1221.3	1218.6	1219.9
180°	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4	1224.4



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2356.3	2356.3	2356.3	2356.3	2356.3
2.5°	2327.3	2338.5	2345.2	2354.1	2376.3
5°	2238.2	2280.5	2293.9	2327.3	2367.5
7.5°	2042.0	2171.2	2206.9	2287.2	2349.6
10°	1852.5	1981.8	2044.2	2233.7	2327.3
12.5°	1756.6	1832.4	1874.8	2140.1	2296.1
15°	1696.4	1749.9	1781.2	2015.3	2260.5
17.5°	1649.6	1687.6	1709.8	1892.7	2211.4
20°	1620.6	1638.5	1658.6	1803.4	2155.7
22.5°	1600.6	1589.5	1605.0	1741.1	2079.9
25°	1587.2	1544.8	1562.7	1692.0	1990.7
27.5°	1598.3	1504.7	1511.4	1647.4	1897.0
30°	1600.6	1455.7	1457.9	1600.6	1792.3
32.5°	1585.0	1404.4	1406.7	1542.6	1674.1
35°	1547.1	1344.2	1342.0	1475.7	1513.7
37.5°	1495.8	1279.6	1279.6	1402.2	1337.6
40°	1433.4	1215.0	1221.6	1306.3	1181.5
42.5°	1357.6	1145.8	1154.7	1179.3	1065.6
45°	1275.1	1078.9	1085.7	996.4	976.4
47.5°	1183.7	1009.9	1012.1	827.0	947.4
50°	1074.5	938.5	929.6	708.9	945.2
52.5°	978.6	860.5	833.8	642.0	858.3
55°	885.0	778.0	720.0	590.7	795.8
57.5°	802.5	671.0	615.2	530.6	782.5
60°	726.7	566.2	523.9	465.9	717.8
62.5°	664.3	488.2	479.3	421.3	650.9
65°	597.4	434.7	432.5	383.5	552.9
67.5°	532.8	399.0	396.8	347.7	421.3
70°	463.7	361.2	356.7	309.9	312.1
72.5°	392.3	318.8	314.3	278.7	258.6
75°	321.0	269.7	267.5	243.0	209.6
77.5°	251.9	214.0	218.4	196.2	153.8
80°	180.6	156.1	160.5	140.4	115.9
82.5°	120.4	102.6	107.0	89.1	78.0
85°	66.8	58.0	60.2	46.8	35.7
87.5°	31.2	26.8	26.8	17.8	11.2
90°	36.2	23.0	21.3	14.8	8.3
92.5°	223.0	158.6	144.7	88.7	32.8
95°	548.7	309.0	283.4	181.1	78.9
97.5°	739.0	339.4	316.8	226.6	136.4
100°	808.3	364.8	344.4	262.6	180.8
102.5°	840.1	390.3	371.3	294.9	218.6
105°	863.6	428.1	411.9	347.3	282.6
107.5°	867.9	483.9	468.9	408.7	348.4
110°	861.4	515.2	501.6	447.2	392.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	861.7	553.0	540.0	488.2	436.3
115°	869.6	609.7	597.8	549.9	502.0
117.5°	885.9	664.8	653.9	610.4	566.9
120°	898.9	696.8	686.7	645.7	604.8
122.5°	917.8	734.6	724.3	683.1	641.8
125°	943.3	783.1	773.7	736.0	698.4
127.5°	968.8	829.9	820.4	782.4	744.4
130°	987.5	861.2	851.0	810.1	769.1
132.5°	1002.5	886.6	876.5	835.5	794.6
135°	1018.9	916.2	906.9	869.6	832.4
137.5°	1043.6	954.0	944.8	907.9	871.0
140°	1058.6	979.5	971.0	937.1	903.1
142.5°	1071.3	998.4	990.5	959.1	927.7
145°	1087.7	1027.2	1020.3	992.9	965.5
147.5°	1111.8	1063.3	1056.6	1030.0	1003.3
150°	1124.3	1082.2	1076.1	1052.0	1028.0
152.5°	1132.6	1094.5	1090.0	1071.7	1053.4
155°	1150.7	1121.6	1118.3	1104.7	1091.2
157.5°	1168.8	1148.7	1145.5	1132.3	1119.1
160°	1176.9	1161.0	1158.5	1148.3	1138.1
162.5°	1185.7	1174.2	1172.3	1164.6	1157.0
165°	1198.3	1193.1	1191.3	1184.5	1177.5
167.5°	1208.2	1203.8	1203.0	1199.7	1196.4
170°	1216.4	1216.1	1215.3	1212.0	1208.7
172.5°	1217.0	1217.0	1216.8	1216.0	1215.3
175°	1221.9	1224.4	1224.4	1224.4	1224.4
177.5°	1222.4	1224.4	1224.4	1224.4	1224.4
180°	1224.4	1224.4	1224.4	1224.4	1224.4



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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	13.48	14.29	14.49	15.31	16.67	16.31	17.11	17.32	18.13	19.49
	3H	13.95	14.68	14.98	15.71	17.09	17.65	18.37	18.67	19.40	20.78
	4H	14.14	14.83	15.18	15.86	17.25	18.09	18.77	19.12	19.80	21.19
	6H	14.26	14.89	15.30	15.92	17.33	18.37	19.00	19.41	20.03	21.43
	8H	14.26	14.86	15.31	15.91	17.31	18.44	19.04	19.49	20.09	21.49
	12H	14.23	14.80	15.28	15.84	17.26	18.47	19.04	19.53	20.09	21.51
4H	2H	14.51	15.19	15.55	16.22	17.61	16.71	17.39	17.75	18.42	19.81
	3H	15.53	16.10	16.58	17.16	18.56	18.21	18.78	19.26	19.84	21.24
	4H	15.80	16.32	16.86	17.37	18.80	18.73	19.25	19.79	20.31	21.73
	6H	15.92	16.37	16.99	17.45	18.87	19.09	19.54	20.16	20.62	22.03
	8H	15.93	16.35	16.99	17.41	18.85	19.20	19.62	20.26	20.68	22.12
	12H	15.89	16.27	16.98	17.35	18.79	19.25	19.63	20.33	20.71	22.15
8H	4H	16.25	16.67	17.31	17.74	19.17	18.85	19.27	19.92	20.34	21.77
	6H	16.51	16.85	17.60	17.96	19.40	19.28	19.63	20.37	20.74	22.17
	8H	16.55	16.85	17.65	17.95	19.40	19.43	19.74	20.53	20.83	22.28
	12H	16.53	16.80	17.63	17.89	19.38	19.53	19.80	20.63	20.88	22.38
12H	4H	16.25	16.63	17.34	17.71	19.15	18.81	19.19	19.90	20.27	21.71
	6H	16.57	16.87	17.66	17.96	19.42	19.28	19.59	20.38	20.68	22.13
	8H	16.63	16.90	17.73	17.99	19.48	19.44	19.71	20.54	20.79	22.28