

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: P935830

Luminaire Tested: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-6500K

Issue Date: 12/17/2024

**Test Information**

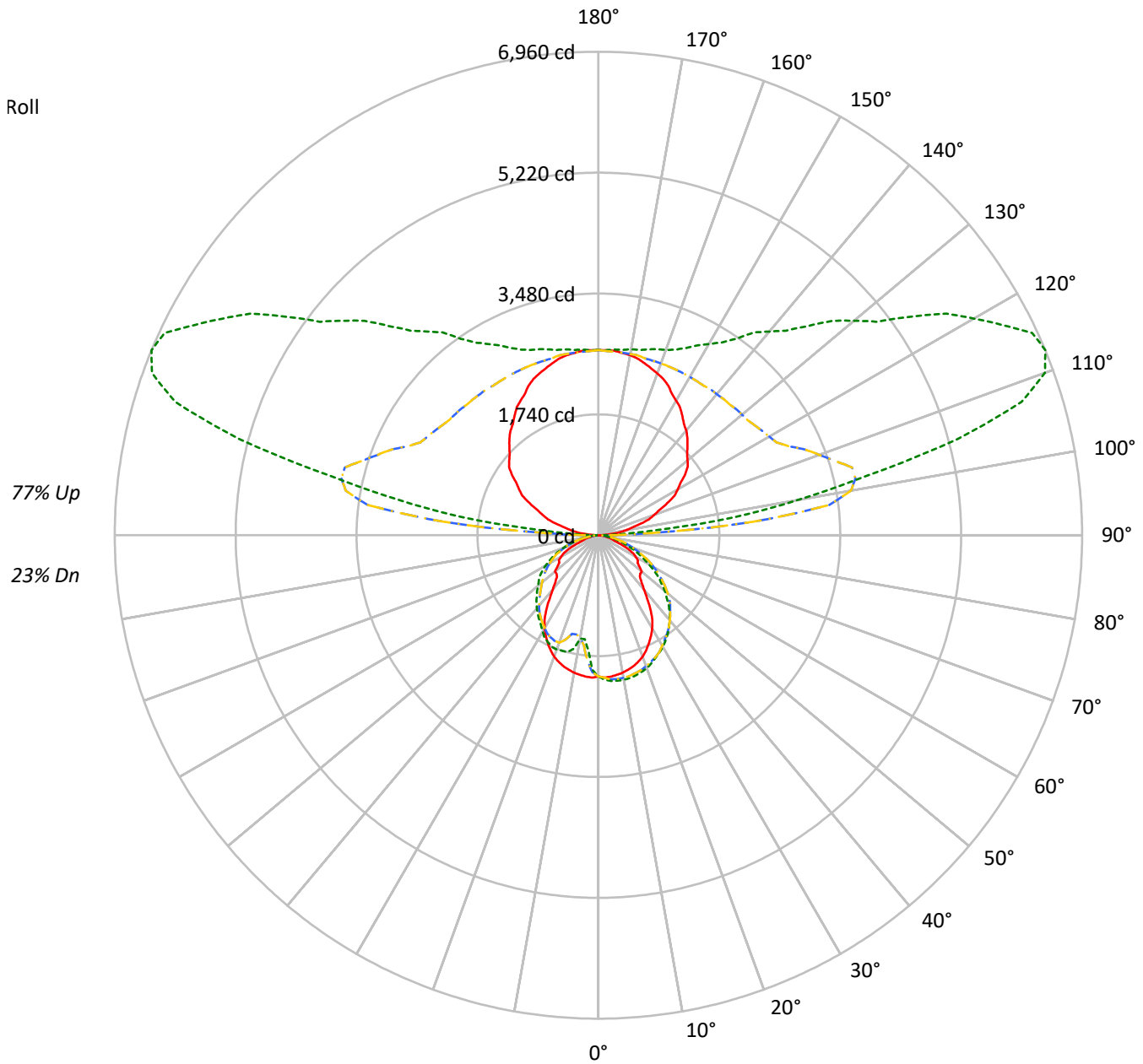
Test Method: LM-79-2019  
Report Number: P935830  
REPORT IS A COMBINATION OF REPORTS P933769 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-6500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 22564.2 lumens  
Efficiency: N/A  
Efficacy: 135.3 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 166.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - · - 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	6

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

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6339	6349	6339	4992
10°	6299	6254	6299	4471
15°	6233	6119	6233	5109
20°	6105	5958	6105	5120
25°	5841	5724	5841	5011
30°	5498	5529	5498	4773
35°	4904	5284	4904	4511
40°	4088	4994	4088	4314
45°	3655	4656	3655	4086
50°	3887	4251	3887	3858
55°	3660	3816	3660	3726
60°	3778	3241	3778	3412
65°	3431	2679	3431	2995
70°	2382	2135	2382	2510
75°	2096	1579	2096	1890
80°	1701	1044	1701	1137
85°	998	553	998	470

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 6644 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	183.6	0.8
10°-20°	521.2	2.3
20°-30°	805.6	3.6
30°-40°	961.8	4.3
40°-50°	967.4	4.3
50°-60°	841.7	3.7
60°-70°	596.8	2.6
70°-80°	315.7	1.4
80°-90°	88.8	0.4
90°-100°	1299.5	5.8
100°-110°	3416.4	15.1
110°-120°	3542.4	15.7
120°-130°	2841.4	12.6
130°-140°	2229.5	9.9
140°-150°	1711.2	7.6
150°-160°	1232.4	5.5
160°-170°	754.0	3.3
170°-180°	254.8	1.1
0°-30°	1510.4	6.7
0°-40°	2472.1	11.0
0°-60°	4281.2	19.0
0°-90°	5282.6	23.4
90°-120°	8258.2	36.6
90°-150°	15040.4	66.7
90°-180°	17282.0	76.6
0°-180°	22564.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2033	2033	2033	2033	2033	
5°	2043	2107	2043	1656	2043	194
15°	1951	2087	1951	1743	1951	549
25°	1718	1947	1718	1704	1718	789
35°	1306	1737	1306	1483	1306	808
45°	843	1431	843	1256	843	675
55°	687	1056	687	1031	687	631
65°	477	637	477	712	477	456
75°	181	302	181	362	181	190
85°	31	77	31	65	31	42
90°	18	68	18	68	18	16
95°	172	785	172	785	172	191
105°	616	5350	616	5350	616	652
115°	1093	6888	1093	6888	1093	1080
125°	1521	5486	1521	5486	1521	1350
135°	1812	4256	1812	4256	1812	1402
145°	2102	3453	2102	3453	2102	1317
155°	2376	2974	2376	2974	2376	1092
165°	2564	2770	2564	2770	2564	724
175°	2666	2684	2666	2684	2666	253
180°	2666	2666	2666	2666	2666	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4
2.5°	2050.7	2050.7	2062.3	2066.1	2066.1	2060.4	2054.7	2060.4	2077.7	2083.4	2081.5
5°	2043.1	2058.5	2079.6	2083.4	2087.4	2085.5	2081.5	2085.5	2104.7	2108.5	2110.4
7.5°	2027.7	2056.6	2083.4	2089.3	2095.0	2089.3	2087.4	2091.2	2110.4	2114.2	2114.2
10°	2008.5	2048.8	2079.6	2083.4	2089.3	2083.4	2083.4	2091.2	2110.4	2114.2	2116.2
12.5°	1981.5	2037.4	2066.1	2070.1	2077.7	2075.8	2073.9	2081.5	2100.9	2104.7	2104.7
15°	1950.7	2016.1	2043.1	2046.9	2060.4	2056.6	2056.6	2064.2	2085.5	2091.2	2089.3
17.5°	1908.5	1989.3	2020.1	2025.8	2035.4	2033.4	2035.4	2043.1	2062.3	2066.1	2068.1
20°	1860.4	1952.6	1989.3	1995.0	2004.7	2004.7	2004.7	2014.2	2033.4	2041.2	2041.2
22.5°	1795.0	1914.2	1952.6	1956.6	1968.0	1968.0	1972.0	1985.3	2002.7	2004.7	2004.7
25°	1718.0	1871.8	1904.5	1916.1	1927.7	1933.4	1939.3	1946.9	1952.6	1950.7	1952.6
27.5°	1637.2	1818.0	1860.4	1868.0	1883.4	1889.2	1896.9	1898.8	1900.7	1906.5	1902.6
30°	1546.7	1742.9	1806.4	1814.2	1839.1	1843.1	1835.3	1839.1	1848.8	1852.6	1856.4
32.5°	1444.8	1631.4	1750.7	1768.0	1791.0	1779.6	1777.6	1783.4	1798.8	1798.8	1802.6
35°	1306.3	1544.8	1698.8	1714.2	1731.5	1718.0	1725.6	1727.6	1737.2	1742.9	1741.0
37.5°	1154.3	1469.8	1644.8	1656.4	1669.9	1652.6	1664.1	1669.9	1677.5	1673.7	1673.7
40°	1019.6	1352.4	1581.4	1589.1	1600.6	1587.2	1598.7	1602.6	1606.4	1602.6	1600.6
42.5°	919.6	1223.5	1514.0	1523.7	1515.9	1525.6	1529.4	1537.2	1531.3	1523.7	1523.7
45°	842.6	1188.9	1441.0	1452.5	1441.0	1456.4	1462.1	1462.1	1444.8	1441.0	1439.0
47.5°	817.6	1119.7	1367.8	1367.8	1362.1	1381.3	1390.9	1377.5	1360.2	1354.4	1354.4
50°	815.7	1042.7	1267.8	1260.1	1287.0	1310.1	1300.5	1287.0	1273.6	1252.4	1252.4
52.5°	740.7	948.4	1138.9	1167.8	1210.1	1223.5	1208.1	1194.7	1171.6	1162.0	1154.3
55°	686.8	850.3	1021.5	1079.3	1123.5	1140.8	1112.0	1098.5	1063.9	1058.1	1054.3
57.5°	675.3	708.0	913.8	986.9	1040.8	1038.9	1021.5	996.5	967.7	961.9	960.0
60°	619.5	511.8	798.4	885.0	940.7	935.0	919.6	896.5	869.6	865.7	861.9
62.5°	561.8	371.3	667.5	765.7	844.5	842.6	829.2	794.5	775.3	765.7	758.0
65°	477.1	311.6	475.2	636.8	750.3	754.1	725.3	700.3	679.1	667.5	665.6
67.5°	363.6	254.0	321.3	531.0	659.9	656.0	619.5	607.9	581.0	575.2	563.7
70°	269.4	169.3	223.2	431.0	571.4	561.8	532.9	519.4	494.4	481.0	473.2
72.5°	223.2	136.5	163.5	334.8	481.0	469.4	444.4	429.0	407.8	396.3	388.6
75°	180.8	144.3	125.1	248.1	390.5	382.9	359.7	344.3	327.0	311.6	313.5
77.5°	132.7	134.6	100.0	182.7	309.7	298.2	284.8	265.5	257.8	242.4	242.4
80°	100.0	105.9	75.1	125.1	223.2	223.2	211.6	198.1	184.6	177.0	177.0
82.5°	67.3	67.3	55.7	78.9	151.9	146.2	138.6	134.6	127.0	123.2	123.2
85°	30.8	38.4	34.6	48.1	82.7	86.5	86.5	82.7	80.8	77.0	78.9
87.5°	9.7	17.3	21.1	27.0	42.4	44.3	46.2	46.2	46.2	48.1	48.1
90°	17.9	32.2	46.6	50.1	78.7	116.8	136.0	120.9	90.6	68.0	68.0
92.5°	71.5	193.2	314.9	345.3	485.5	672.3	765.7	671.1	481.8	339.9	326.4
95°	171.7	394.3	617.0	672.7	1194.6	1890.4	2238.3	1997.3	1515.5	1154.0	1113.1
97.5°	297.0	493.4	689.8	738.9	1609.1	2769.2	3349.3	3197.0	2892.5	2664.0	2586.1
100°	393.6	571.7	749.8	794.4	1760.0	3047.3	3691.0	3702.1	3724.4	3741.1	3648.3
102.5°	475.9	642.1	808.3	849.9	1829.1	3134.8	3787.7	3981.7	4369.7	4660.8	4581.2
105°	615.5	756.3	897.0	932.2	1880.4	3144.7	3776.9	4211.8	5081.8	5734.2	5691.5
107.5°	758.6	889.8	1021.0	1053.8	1889.9	3004.7	3562.2	4168.9	5382.3	6292.4	6302.7
110°	855.2	973.7	1092.2	1121.8	1875.7	2880.7	3383.3	4061.6	5418.2	6435.6	6480.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	950.1	1063.0	1175.9	1204.1	1876.2	2772.4	3220.5	3914.7	5303.0	6344.3	6412.7
115°	1093.2	1197.3	1301.6	1327.6	1893.5	2648.2	3025.5	3694.3	5031.7	6034.8	6129.7
117.5°	1234.5	1329.1	1423.8	1447.4	1928.6	2570.3	2891.2	3494.8	4701.9	5607.2	5712.4
120°	1316.8	1405.9	1494.9	1517.2	1957.3	2544.1	2837.6	3389.0	4491.9	5319.1	5421.3
122.5°	1397.3	1487.2	1577.0	1599.5	1998.5	2530.5	2796.5	3293.0	4286.2	5031.1	5131.9
125°	1520.8	1602.7	1684.6	1705.1	2054.0	2519.2	2751.7	3173.6	4017.3	4650.0	4742.8
127.5°	1620.9	1703.6	1786.4	1807.0	2109.4	2512.6	2714.2	3076.4	3800.8	4344.1	4422.4
130°	1674.7	1763.7	1852.7	1875.0	2149.9	2516.5	2699.8	3022.2	3667.2	4150.8	4223.2
132.5°	1730.1	1819.2	1908.2	1930.5	2182.7	2519.1	2687.3	2976.0	3553.3	3986.3	4051.1
135°	1812.4	1893.5	1974.6	1994.9	2218.6	2516.8	2665.9	2907.6	3391.0	3753.6	3809.5
137.5°	1896.5	1976.8	2057.2	2077.2	2272.2	2532.2	2662.2	2866.6	3275.3	3581.9	3627.6
140°	1966.3	2040.2	2114.2	2132.7	2305.0	2534.8	2649.7	2826.2	3179.3	3444.1	3486.9
142.5°	2020.0	2088.3	2156.7	2173.8	2332.4	2544.0	2649.7	2804.8	3114.9	3347.5	3384.3
145°	2102.3	2162.0	2221.5	2236.4	2368.2	2544.0	2631.8	2758.6	3012.3	3202.6	3230.4
147.5°	2184.5	2242.6	2300.6	2315.1	2420.7	2561.4	2631.8	2731.7	2931.2	3080.9	3104.0
150°	2238.3	2290.8	2343.2	2356.3	2448.1	2570.6	2631.8	2716.2	2884.7	3011.1	3029.8
152.5°	2293.7	2333.5	2373.2	2383.1	2466.0	2576.6	2631.8	2703.8	2847.7	2955.7	2969.8
155°	2376.0	2405.5	2434.8	2442.2	2505.4	2589.7	2631.8	2689.1	2803.7	2889.5	2898.9
157.5°	2436.9	2465.4	2494.0	2501.2	2544.7	2602.8	2631.8	2676.4	2765.4	2832.2	2838.8
160°	2478.0	2500.3	2522.5	2528.1	2562.7	2608.8	2631.8	2670.0	2746.3	2803.6	2807.4
162.5°	2519.1	2535.8	2552.5	2556.7	2581.7	2615.1	2631.8	2664.0	2728.5	2776.8	2780.3
165°	2563.8	2578.9	2594.1	2597.9	2609.2	2624.3	2631.8	2654.9	2701.0	2735.6	2739.4
167.5°	2605.1	2612.2	2619.3	2621.1	2630.7	2643.4	2649.7	2664.8	2695.0	2717.7	2719.3
170°	2631.8	2639.0	2646.2	2648.0	2648.6	2649.3	2649.7	2664.8	2695.0	2717.7	2717.7
172.5°	2646.2	2647.7	2649.3	2649.7	2649.7	2649.7	2649.7	2661.7	2685.6	2703.4	2702.0
175°	2665.9	2665.9	2665.9	2665.9	2660.5	2653.3	2649.7	2657.3	2672.4	2683.7	2683.7
177.5°	2665.9	2665.9	2665.9	2665.9	2661.7	2656.1	2653.3	2659.3	2671.2	2680.1	2678.5
180°	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4
2.5°	2085.5	2079.6	2085.5	2081.5	2083.4	2077.7	2060.4	2054.7	2060.4	2066.1	2066.1
5°	2110.4	2106.6	2110.4	2110.4	2108.5	2104.7	2085.5	2081.5	2085.5	2087.4	2083.4
7.5°	2118.2	2112.3	2118.2	2114.2	2114.2	2110.4	2091.2	2087.4	2089.3	2095.0	2089.3
10°	2118.2	2112.3	2118.2	2116.2	2114.2	2110.4	2091.2	2083.4	2083.4	2089.3	2083.4
12.5°	2108.5	2104.7	2108.5	2104.7	2104.7	2100.9	2081.5	2073.9	2075.8	2077.7	2070.1
15°	2093.1	2087.4	2093.1	2089.3	2091.2	2085.5	2064.2	2056.6	2056.6	2060.4	2046.9
17.5°	2070.1	2062.3	2070.1	2068.1	2066.1	2062.3	2043.1	2035.4	2033.4	2035.4	2025.8
20°	2043.1	2037.4	2043.1	2041.2	2041.2	2033.4	2014.2	2004.7	2004.7	2004.7	1995.0
22.5°	2000.7	1995.0	2000.7	2004.7	2004.7	2002.7	1985.3	1972.0	1968.0	1968.0	1956.6
25°	1952.6	1946.9	1952.6	1952.6	1950.7	1952.6	1946.9	1939.3	1933.4	1927.7	1916.1
27.5°	1906.5	1902.6	1906.5	1902.6	1906.5	1900.7	1898.8	1896.9	1889.2	1883.4	1868.0
30°	1860.4	1856.4	1860.4	1856.4	1852.6	1848.8	1839.1	1835.3	1843.1	1839.1	1814.2
32.5°	1802.6	1798.8	1802.6	1802.6	1798.8	1798.8	1783.4	1777.6	1779.6	1791.0	1768.0
35°	1742.9	1737.2	1742.9	1741.0	1742.9	1737.2	1727.6	1725.6	1718.0	1731.5	1714.2
37.5°	1673.7	1668.0	1673.7	1673.7	1673.7	1677.5	1669.9	1664.1	1652.6	1669.9	1656.4
40°	1602.6	1594.8	1602.6	1600.6	1602.6	1606.4	1602.6	1598.7	1587.2	1600.6	1589.1
42.5°	1521.8	1519.8	1521.8	1523.7	1523.7	1531.3	1537.2	1529.4	1525.6	1515.9	1523.7
45°	1435.2	1431.3	1435.2	1439.0	1441.0	1444.8	1462.1	1462.1	1456.4	1441.0	1452.5
47.5°	1342.8	1333.2	1342.8	1354.4	1354.4	1360.2	1377.5	1390.9	1381.3	1362.1	1367.8
50°	1244.7	1246.6	1244.7	1252.4	1252.4	1273.6	1287.0	1300.5	1310.1	1287.0	1260.1
52.5°	1148.5	1146.6	1148.5	1154.3	1162.0	1171.6	1194.7	1208.1	1223.5	1210.1	1167.8
55°	1052.3	1056.2	1052.3	1054.3	1058.1	1063.9	1098.5	1112.0	1140.8	1123.5	1079.3
57.5°	956.1	950.4	956.1	960.0	961.9	967.7	996.5	1021.5	1038.9	1040.8	986.9
60°	844.5	836.9	844.5	861.9	865.7	869.6	896.5	919.6	935.0	940.7	885.0
62.5°	746.4	733.0	746.4	758.0	765.7	775.3	794.5	829.2	842.6	844.5	765.7
65°	642.6	636.8	642.6	665.6	667.5	679.1	700.3	725.3	754.1	750.3	636.8
67.5°	548.3	548.3	548.3	563.7	575.2	581.0	607.9	619.5	656.0	659.9	531.0
70°	461.7	459.8	461.7	473.2	481.0	494.4	519.4	532.9	561.8	571.4	431.0
72.5°	379.0	377.0	379.0	388.6	396.3	407.8	429.0	444.4	469.4	481.0	334.8
75°	305.9	302.1	305.9	313.5	311.6	327.0	344.3	359.7	382.9	390.5	248.1
77.5°	234.7	234.7	234.7	242.4	242.4	257.8	265.5	284.8	298.2	309.7	182.7
80°	175.1	173.2	175.1	177.0	177.0	184.6	198.1	211.6	223.2	223.2	125.1
82.5°	123.2	119.2	123.2	123.2	123.2	127.0	134.6	138.6	146.2	151.9	78.9
85°	77.0	77.0	77.0	78.9	77.0	80.8	82.7	86.5	86.5	82.7	48.1
87.5°	50.0	48.1	50.0	48.1	48.1	46.2	46.2	46.2	44.3	42.4	27.0
90°	68.0	68.0	68.0	68.0	68.0	90.6	120.9	136.0	116.8	78.7	50.1
92.5°	272.3	218.3	272.3	326.4	339.9	481.8	671.1	765.7	672.3	485.5	345.3
95°	949.2	785.4	949.2	1113.1	1154.0	1515.5	1997.3	2238.3	1890.4	1194.6	672.7
97.5°	2274.4	1962.7	2274.4	2586.1	2664.0	2892.5	3197.0	3349.3	2769.2	1609.1	738.9
100°	3277.0	2905.6	3277.0	3648.3	3741.1	3724.4	3702.1	3691.0	3047.3	1760.0	794.4
102.5°	4263.2	3945.1	4263.2	4581.2	4660.8	4369.7	3981.7	3787.7	3134.8	1829.1	849.9
105°	5520.6	5349.6	5520.6	5691.5	5734.2	5081.8	4211.8	3776.9	3144.7	1880.4	932.2
107.5°	6344.1	6385.5	6344.1	6302.7	6292.4	5382.3	4168.9	3562.2	3004.7	1889.9	1053.8
110°	6658.3	6836.4	6658.3	6480.1	6435.6	5418.2	4061.6	3383.3	2880.7	1875.7	1121.8





TEST NUMBER: P935830

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6686.3	6959.8	6686.3	6412.7	6344.3	5303.0	3914.7	3220.5	2772.4	1876.2	1204.1
115°	6508.9	6888.2	6508.9	6129.7	6034.8	5031.7	3694.3	3025.5	2648.2	1893.5	1327.6
117.5°	6133.0	6553.7	6133.0	5712.4	5607.2	4701.9	3494.8	2891.2	2570.3	1928.6	1447.4
120°	5830.0	6238.8	5830.0	5421.3	5319.1	4491.9	3389.0	2837.6	2544.1	1957.3	1517.2
122.5°	5535.1	5938.2	5535.1	5131.9	5031.1	4286.2	3293.0	2796.5	2530.5	1998.5	1599.5
125°	5114.2	5485.6	5114.2	4742.8	4650.0	4017.3	3173.6	2751.7	2519.2	2054.0	1705.1
127.5°	4735.7	5049.0	4735.7	4422.4	4344.1	3800.8	3076.4	2714.2	2512.6	2109.4	1807.0
130°	4512.7	4802.1	4512.7	4223.2	4150.8	3667.2	3022.2	2699.8	2516.5	2149.9	1875.0
132.5°	4310.2	4569.5	4310.2	4051.1	3986.3	3553.3	2976.0	2687.3	2519.1	2182.7	1930.5
135°	4032.9	4256.4	4032.9	3809.5	3753.6	3391.0	2907.6	2665.9	2516.8	2218.6	1994.9
137.5°	3810.5	3993.3	3810.5	3627.6	3581.9	3275.3	2866.6	2662.2	2532.2	2272.2	2077.2
140°	3657.8	3828.8	3657.8	3486.9	3444.1	3179.3	2826.2	2649.7	2534.8	2305.0	2132.7
142.5°	3531.4	3678.5	3531.4	3384.3	3347.5	3114.9	2804.8	2649.7	2544.0	2332.4	2173.8
145°	3341.8	3453.1	3341.8	3230.4	3202.6	3012.3	2758.6	2631.8	2544.0	2368.2	2236.4
147.5°	3196.3	3288.4	3196.3	3104.0	3080.9	2931.2	2731.7	2631.8	2561.4	2420.7	2315.1
150°	3104.6	3179.3	3104.6	3029.8	3011.1	2884.7	2716.2	2631.8	2570.6	2448.1	2356.3
152.5°	3026.3	3082.7	3026.3	2969.8	2955.7	2847.7	2703.8	2631.8	2576.6	2466.0	2383.1
155°	2936.2	2973.6	2936.2	2898.9	2889.5	2803.7	2689.1	2631.8	2589.7	2505.4	2442.2
157.5°	2865.0	2891.2	2865.0	2838.8	2832.2	2765.4	2676.4	2631.8	2602.8	2544.7	2501.2
160°	2822.5	2837.6	2822.5	2807.4	2803.6	2746.3	2670.0	2631.8	2608.8	2562.7	2528.1
162.5°	2794.7	2809.0	2794.7	2780.3	2776.8	2728.5	2664.0	2631.8	2615.1	2581.7	2556.7
165°	2754.5	2769.6	2754.5	2739.4	2735.6	2701.0	2654.9	2631.8	2624.3	2609.2	2597.9
167.5°	2725.6	2732.0	2725.6	2719.3	2717.7	2695.0	2664.8	2649.7	2643.4	2630.7	2621.1
170°	2717.7	2717.7	2717.7	2717.7	2717.7	2695.0	2664.8	2649.7	2649.3	2648.6	2648.0
172.5°	2696.5	2690.9	2696.5	2702.0	2703.4	2685.6	2661.7	2649.7	2649.7	2649.7	2649.7
175°	2683.7	2683.7	2683.7	2683.7	2683.7	2672.4	2657.3	2649.7	2653.3	2660.5	2665.9
177.5°	2672.2	2665.9	2672.2	2678.5	2680.1	2671.2	2659.3	2653.3	2656.1	2661.7	2665.9
180°	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4
2.5°	2062.3	2050.7	2050.7	2031.5	2023.9	2018.0	2008.5	1979.6	1972.0	1964.2	1975.8
5°	2079.6	2058.5	2043.1	2008.5	1979.6	1968.0	1931.5	1862.3	1816.1	1781.5	1762.3
7.5°	2083.4	2056.6	2027.7	1973.9	1904.5	1873.8	1762.3	1635.3	1600.6	1569.9	1550.6
10°	2079.6	2048.8	2008.5	1927.7	1764.2	1710.2	1598.7	1515.9	1494.8	1489.1	1494.8
12.5°	2066.1	2037.4	1981.5	1846.9	1618.0	1581.4	1515.9	1467.9	1464.0	1473.7	1525.6
15°	2043.1	2016.1	1950.7	1739.1	1537.2	1510.2	1464.0	1446.7	1467.9	1535.2	1691.0
17.5°	2020.1	1989.3	1908.5	1633.4	1475.6	1456.4	1423.6	1458.3	1577.5	1668.0	1719.9
20°	1989.3	1952.6	1860.4	1556.4	1431.3	1414.0	1398.6	1554.5	1644.8	1677.5	1706.4
22.5°	1952.6	1914.2	1795.0	1502.5	1385.1	1371.7	1381.3	1608.3	1644.8	1668.0	1692.9
25°	1904.5	1871.8	1718.0	1460.2	1348.6	1333.2	1369.7	1602.6	1623.7	1629.4	1679.5
27.5°	1860.4	1818.0	1637.2	1421.7	1304.3	1298.6	1379.4	1577.5	1592.9	1598.7	1652.6
30°	1806.4	1742.9	1546.7	1381.3	1258.2	1256.2	1381.3	1546.7	1542.9	1558.3	1612.1
32.5°	1750.7	1631.4	1444.8	1331.3	1213.9	1212.0	1367.8	1500.6	1496.7	1517.9	1558.3
35°	1698.8	1544.8	1306.3	1273.6	1158.1	1160.1	1335.1	1446.7	1448.6	1467.9	1492.9
37.5°	1644.8	1469.8	1154.3	1210.1	1104.3	1104.3	1290.9	1396.7	1392.9	1398.6	1433.2
40°	1581.4	1352.4	1019.6	1127.4	1054.3	1048.5	1237.0	1342.8	1329.4	1327.5	1375.5
42.5°	1514.0	1223.5	919.6	1017.7	996.5	988.8	1171.6	1277.4	1252.4	1258.2	1319.7
45°	1441.0	1188.9	842.6	859.9	936.9	931.1	1100.4	1202.4	1185.1	1200.5	1264.0
47.5°	1367.8	1119.7	817.6	713.7	873.4	871.5	1021.5	1129.3	1119.7	1135.1	1202.4
50°	1267.8	1042.7	815.7	611.8	802.2	809.9	927.3	1058.1	1058.1	1071.6	1142.7
52.5°	1138.9	948.4	740.7	554.0	719.5	742.6	844.5	996.5	1000.4	1013.9	1077.3
55°	1021.5	850.3	686.8	509.8	621.4	671.4	763.7	933.1	940.7	954.2	1011.9
57.5°	913.8	708.0	675.3	457.8	531.0	579.1	692.6	871.5	875.3	886.9	942.7
60°	798.4	511.8	619.5	402.1	452.1	488.6	627.2	798.4	811.8	819.6	867.6
62.5°	667.5	371.3	561.8	363.6	413.6	421.3	573.3	729.1	746.4	752.2	781.1
65°	475.2	311.6	477.1	330.9	373.2	375.1	515.6	658.0	673.4	682.9	704.1
67.5°	321.3	254.0	363.6	300.1	342.4	344.3	459.8	575.2	596.4	604.1	617.5
70°	223.2	169.3	269.4	267.4	307.8	311.6	400.2	500.2	519.4	525.2	532.9
72.5°	163.5	136.5	223.2	240.5	271.3	275.1	338.6	415.6	434.8	440.5	444.4
75°	125.1	144.3	180.8	209.7	230.8	232.7	277.0	338.6	352.1	355.9	357.8
77.5°	100.0	134.6	132.7	169.3	188.6	184.6	217.4	261.6	273.2	273.2	273.2
80°	75.1	105.9	100.0	121.2	138.6	134.6	155.9	186.6	190.5	194.3	192.4
82.5°	55.7	67.3	67.3	77.0	92.4	88.5	103.8	121.2	121.2	121.2	125.1
85°	34.6	38.4	30.8	40.4	51.9	50.0	57.8	65.4	67.3	67.3	63.5
87.5°	21.1	17.3	9.7	15.4	23.0	23.0	27.0	28.9	27.0	27.0	27.0
90°	46.6	32.2	17.9	32.2	46.6	50.1	78.7	116.8	136.0	120.9	90.6
92.5°	314.9	193.2	71.5	193.2	314.9	345.3	485.5	672.3	765.7	671.1	481.8
95°	617.0	394.3	171.7	394.3	617.0	672.7	1194.6	1890.4	2238.3	1997.3	1515.5
97.5°	689.8	493.4	297.0	493.4	689.8	738.9	1609.1	2769.2	3349.3	3197.0	2892.5
100°	749.8	571.7	393.6	571.7	749.8	794.4	1760.0	3047.3	3691.0	3702.1	3724.4
102.5°	808.3	642.1	475.9	642.1	808.3	849.9	1829.1	3134.8	3787.7	3981.7	4369.7
105°	897.0	756.3	615.5	756.3	897.0	932.2	1880.4	3144.7	3776.9	4211.8	5081.8
107.5°	1021.0	889.8	758.6	889.8	1021.0	1053.8	1889.9	3004.7	3562.2	4168.9	5382.3
110°	1092.2	973.7	855.2	973.7	1092.2	1121.8	1875.7	2880.7	3383.3	4061.6	5418.2



TEST NUMBER: P935830

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-6500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1175.9	1063.0	950.1	1063.0	1175.9	1204.1	1876.2	2772.4	3220.5	3914.7	5303.0
115°	1301.6	1197.3	1093.2	1197.3	1301.6	1327.6	1893.5	2648.2	3025.5	3694.3	5031.7
117.5°	1423.8	1329.1	1234.5	1329.1	1423.8	1447.4	1928.6	2570.3	2891.2	3494.8	4701.9
120°	1494.9	1405.9	1316.8	1405.9	1494.9	1517.2	1957.3	2544.1	2837.6	3389.0	4491.9
122.5°	1577.0	1487.2	1397.3	1487.2	1577.0	1599.5	1998.5	2530.5	2796.5	3293.0	4286.2
125°	1684.6	1602.7	1520.8	1602.7	1684.6	1705.1	2054.0	2519.2	2751.7	3173.6	4017.3
127.5°	1786.4	1703.6	1620.9	1703.6	1786.4	1807.0	2109.4	2512.6	2714.2	3076.4	3800.8
130°	1852.7	1763.7	1674.7	1763.7	1852.7	1875.0	2149.9	2516.5	2699.8	3022.2	3667.2
132.5°	1908.2	1819.2	1730.1	1819.2	1908.2	1930.5	2182.7	2519.1	2687.3	2976.0	3553.3
135°	1974.6	1893.5	1812.4	1893.5	1974.6	1994.9	2218.6	2516.8	2665.9	2907.6	3391.0
137.5°	2057.2	1976.8	1896.5	1976.8	2057.2	2077.2	2272.2	2532.2	2662.2	2866.6	3275.3
140°	2114.2	2040.2	1966.3	2040.2	2114.2	2132.7	2305.0	2534.8	2649.7	2826.2	3179.3
142.5°	2156.7	2088.3	2020.0	2088.3	2156.7	2173.8	2332.4	2544.0	2649.7	2804.8	3114.9
145°	2221.5	2162.0	2102.3	2162.0	2221.5	2236.4	2368.2	2544.0	2631.8	2758.6	3012.3
147.5°	2300.6	2242.6	2184.5	2242.6	2300.6	2315.1	2420.7	2561.4	2631.8	2731.7	2931.2
150°	2343.2	2290.8	2238.3	2290.8	2343.2	2356.3	2448.1	2570.6	2631.8	2716.2	2884.7
152.5°	2373.2	2333.5	2293.7	2333.5	2373.2	2383.1	2466.0	2576.6	2631.8	2703.8	2847.7
155°	2434.8	2405.5	2376.0	2405.5	2434.8	2442.2	2505.4	2589.7	2631.8	2689.1	2803.7
157.5°	2494.0	2465.4	2436.9	2465.4	2494.0	2501.2	2544.7	2602.8	2631.8	2676.4	2765.4
160°	2522.5	2500.3	2478.0	2500.3	2522.5	2528.1	2562.7	2608.8	2631.8	2670.0	2746.3
162.5°	2552.5	2535.8	2519.1	2535.8	2552.5	2556.7	2581.7	2615.1	2631.8	2664.0	2728.5
165°	2594.1	2578.9	2563.8	2578.9	2594.1	2597.9	2609.2	2624.3	2631.8	2654.9	2701.0
167.5°	2619.3	2612.2	2605.1	2612.2	2619.3	2621.1	2630.7	2643.4	2649.7	2664.8	2695.0
170°	2646.2	2639.0	2631.8	2639.0	2646.2	2648.0	2648.6	2649.3	2649.7	2664.8	2695.0
172.5°	2649.3	2647.7	2646.2	2647.7	2649.3	2649.7	2649.7	2649.7	2649.7	2661.7	2685.6
175°	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2660.5	2653.3	2649.7	2657.3	2672.4
177.5°	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2661.7	2656.1	2653.3	2659.3	2671.2
180°	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9



TEST NUMBER: P935830  
 CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-6500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4	2033.4
2.5°	1962.3	1956.6	1964.2	1943.1	1964.2	1956.6	1962.3	1975.8	1964.2	1972.0	1979.6
5°	1721.8	1712.2	1681.5	1656.4	1681.5	1712.2	1721.8	1762.3	1781.5	1816.1	1862.3
7.5°	1539.1	1531.3	1523.7	1508.3	1523.7	1531.3	1539.1	1550.6	1569.9	1600.6	1635.3
10°	1498.6	1500.6	1512.1	1510.2	1512.1	1500.6	1498.6	1494.8	1489.1	1494.8	1515.9
12.5°	1602.6	1619.9	1683.4	1679.5	1683.4	1619.9	1602.6	1525.6	1473.7	1464.0	1467.9
15°	1721.8	1727.6	1741.0	1742.9	1741.0	1727.6	1721.8	1691.0	1535.2	1467.9	1446.7
17.5°	1733.4	1735.3	1744.9	1744.9	1744.9	1735.3	1733.4	1719.9	1668.0	1577.5	1458.3
20°	1723.7	1727.6	1746.9	1750.7	1746.9	1727.6	1723.7	1706.4	1677.5	1644.8	1554.5
22.5°	1719.9	1727.6	1742.9	1741.0	1742.9	1727.6	1719.9	1692.9	1668.0	1644.8	1608.3
25°	1700.7	1700.7	1702.6	1704.5	1702.6	1700.7	1700.7	1679.5	1629.4	1623.7	1602.6
27.5°	1660.2	1664.1	1675.6	1673.7	1675.6	1664.1	1660.2	1652.6	1598.7	1592.9	1577.5
30°	1623.7	1619.9	1610.2	1602.6	1610.2	1619.9	1623.7	1612.1	1558.3	1542.9	1546.7
32.5°	1562.1	1552.5	1542.9	1537.2	1542.9	1552.5	1562.1	1558.3	1517.9	1496.7	1500.6
35°	1489.1	1491.0	1489.1	1483.2	1489.1	1491.0	1489.1	1492.9	1467.9	1448.6	1446.7
37.5°	1437.1	1441.0	1439.0	1431.3	1439.0	1441.0	1437.1	1433.2	1398.6	1392.9	1396.7
40°	1383.2	1385.1	1383.2	1377.5	1383.2	1385.1	1383.2	1375.5	1327.5	1329.4	1342.8
42.5°	1331.3	1329.4	1323.6	1319.7	1323.6	1329.4	1331.3	1319.7	1258.2	1252.4	1277.4
45°	1271.6	1273.6	1262.0	1256.2	1262.0	1273.6	1271.6	1264.0	1200.5	1185.1	1202.4
47.5°	1212.0	1212.0	1202.4	1196.6	1202.4	1212.0	1212.0	1202.4	1135.1	1119.7	1129.3
50°	1148.5	1146.6	1133.1	1131.2	1133.1	1146.6	1148.5	1142.7	1071.6	1058.1	1058.1
52.5°	1075.4	1075.4	1077.3	1081.2	1077.3	1075.4	1075.4	1077.3	1013.9	1000.4	996.5
55°	1011.9	1013.9	1027.3	1031.2	1027.3	1013.9	1011.9	1011.9	954.2	940.7	933.1
57.5°	946.5	946.5	956.1	956.1	956.1	946.5	946.5	942.7	886.9	875.3	871.5
60°	871.5	875.3	883.0	881.1	883.0	875.3	871.5	867.6	819.6	811.8	798.4
62.5°	792.6	796.5	798.4	794.5	798.4	796.5	792.6	781.1	752.2	746.4	729.1
65°	709.9	713.7	715.6	711.8	715.6	713.7	709.9	704.1	682.9	673.4	658.0
67.5°	625.3	623.3	621.4	629.1	621.4	623.3	625.3	617.5	604.1	596.4	575.2
70°	538.6	538.6	536.7	540.6	536.7	538.6	538.6	532.9	525.2	519.4	500.2
72.5°	446.4	444.4	452.1	446.4	452.1	444.4	446.4	444.4	440.5	434.8	415.6
75°	355.9	359.7	355.9	361.6	355.9	359.7	355.9	357.8	355.9	352.1	338.6
77.5°	271.3	275.1	271.3	271.3	271.3	275.1	271.3	273.2	273.2	273.2	261.6
80°	192.4	190.5	190.5	188.6	190.5	190.5	192.4	192.4	194.3	190.5	186.6
82.5°	123.2	121.2	121.2	125.1	121.2	121.2	123.2	125.1	121.2	121.2	121.2
85°	67.3	69.2	65.4	65.4	65.4	69.2	67.3	63.5	67.3	67.3	65.4
87.5°	25.1	23.0	23.0	23.0	23.0	23.0	25.1	27.0	27.0	27.0	28.9
90°	68.0	68.0	68.0	68.0	68.0	68.0	68.0	90.6	120.9	136.0	116.8
92.5°	339.9	326.4	272.3	218.3	272.3	326.4	339.9	481.8	671.1	765.7	672.3
95°	1154.0	1113.1	949.2	785.4	949.2	1113.1	1154.0	1515.5	1997.3	2238.3	1890.4
97.5°	2664.0	2586.1	2274.4	1962.7	2274.4	2586.1	2664.0	2892.5	3197.0	3349.3	2769.2
100°	3741.1	3648.3	3277.0	2905.6	3277.0	3648.3	3741.1	3724.4	3702.1	3691.0	3047.3
102.5°	4660.8	4581.2	4263.2	3945.1	4263.2	4581.2	4660.8	4369.7	3981.7	3787.7	3134.8
105°	5734.2	5691.5	5520.6	5349.6	5520.6	5691.5	5734.2	5081.8	4211.8	3776.9	3144.7
107.5°	6292.4	6302.7	6344.1	6385.5	6344.1	6302.7	6292.4	5382.3	4168.9	3562.2	3004.7
110°	6435.6	6480.1	6658.3	6836.4	6658.3	6480.1	6435.6	5418.2	4061.6	3383.3	2880.7



TEST NUMBER: P935830

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6344.3	6412.7	6686.3	6959.8	6686.3	6412.7	6344.3	5303.0	3914.7	3220.5	2772.4
115°	6034.8	6129.7	6508.9	6888.2	6508.9	6129.7	6034.8	5031.7	3694.3	3025.5	2648.2
117.5°	5607.2	5712.4	6133.0	6553.7	6133.0	5712.4	5607.2	4701.9	3494.8	2891.2	2570.3
120°	5319.1	5421.3	5830.0	6238.8	5830.0	5421.3	5319.1	4491.9	3389.0	2837.6	2544.1
122.5°	5031.1	5131.9	5535.1	5938.2	5535.1	5131.9	5031.1	4286.2	3293.0	2796.5	2530.5
125°	4650.0	4742.8	5114.2	5485.6	5114.2	4742.8	4650.0	4017.3	3173.6	2751.7	2519.2
127.5°	4344.1	4422.4	4735.7	5049.0	4735.7	4422.4	4344.1	3800.8	3076.4	2714.2	2512.6
130°	4150.8	4223.2	4512.7	4802.1	4512.7	4223.2	4150.8	3667.2	3022.2	2699.8	2516.5
132.5°	3986.3	4051.1	4310.2	4569.5	4310.2	4051.1	3986.3	3553.3	2976.0	2687.3	2519.1
135°	3753.6	3809.5	4032.9	4256.4	4032.9	3809.5	3753.6	3391.0	2907.6	2665.9	2516.8
137.5°	3581.9	3627.6	3810.5	3993.3	3810.5	3627.6	3581.9	3275.3	2866.6	2662.2	2532.2
140°	3444.1	3486.9	3657.8	3828.8	3657.8	3486.9	3444.1	3179.3	2826.2	2649.7	2534.8
142.5°	3347.5	3384.3	3531.4	3678.5	3531.4	3384.3	3347.5	3114.9	2804.8	2649.7	2544.0
145°	3202.6	3230.4	3341.8	3453.1	3341.8	3230.4	3202.6	3012.3	2758.6	2631.8	2544.0
147.5°	3080.9	3104.0	3196.3	3288.4	3196.3	3104.0	3080.9	2931.2	2731.7	2631.8	2561.4
150°	3011.1	3029.8	3104.6	3179.3	3104.6	3029.8	3011.1	2884.7	2716.2	2631.8	2570.6
152.5°	2955.7	2969.8	3026.3	3082.7	3026.3	2969.8	2955.7	2847.7	2703.8	2631.8	2576.6
155°	2889.5	2898.9	2936.2	2973.6	2936.2	2898.9	2889.5	2803.7	2689.1	2631.8	2589.7
157.5°	2832.2	2838.8	2865.0	2891.2	2865.0	2838.8	2832.2	2765.4	2676.4	2631.8	2602.8
160°	2803.6	2807.4	2822.5	2837.6	2822.5	2807.4	2803.6	2746.3	2670.0	2631.8	2608.8
162.5°	2776.8	2780.3	2794.7	2809.0	2794.7	2780.3	2776.8	2728.5	2664.0	2631.8	2615.1
165°	2735.6	2739.4	2754.5	2769.6	2754.5	2739.4	2735.6	2701.0	2654.9	2631.8	2624.3
167.5°	2717.7	2719.3	2725.6	2732.0	2725.6	2719.3	2717.7	2695.0	2664.8	2649.7	2643.4
170°	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2717.7	2695.0	2664.8	2649.7	2649.3
172.5°	2703.4	2702.0	2696.5	2690.9	2696.5	2702.0	2703.4	2685.6	2661.7	2649.7	2649.7
175°	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2683.7	2672.4	2657.3	2649.7	2653.3
177.5°	2680.1	2678.5	2672.2	2665.9	2672.2	2678.5	2680.1	2671.2	2659.3	2653.3	2656.1
180°	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9	2665.9



TEST NUMBER: P935830

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2033.4	2033.4	2033.4	2033.4	2033.4
2.5°	2008.5	2018.0	2023.9	2031.5	2050.7
5°	1931.5	1968.0	1979.6	2008.5	2043.1
7.5°	1762.3	1873.8	1904.5	1973.9	2027.7
10°	1598.7	1710.2	1764.2	1927.7	2008.5
12.5°	1515.9	1581.4	1618.0	1846.9	1981.5
15°	1464.0	1510.2	1537.2	1739.1	1950.7
17.5°	1423.6	1456.4	1475.6	1633.4	1908.5
20°	1398.6	1414.0	1431.3	1556.4	1860.4
22.5°	1381.3	1371.7	1385.1	1502.5	1795.0
25°	1369.7	1333.2	1348.6	1460.2	1718.0
27.5°	1379.4	1298.6	1304.3	1421.7	1637.2
30°	1381.3	1256.2	1258.2	1381.3	1546.7
32.5°	1367.8	1212.0	1213.9	1331.3	1444.8
35°	1335.1	1160.1	1158.1	1273.6	1306.3
37.5°	1290.9	1104.3	1104.3	1210.1	1154.3
40°	1237.0	1048.5	1054.3	1127.4	1019.6
42.5°	1171.6	988.8	996.5	1017.7	919.6
45°	1100.4	931.1	936.9	859.9	842.6
47.5°	1021.5	871.5	873.4	713.7	817.6
50°	927.3	809.9	802.2	611.8	815.7
52.5°	844.5	742.6	719.5	554.0	740.7
55°	763.7	671.4	621.4	509.8	686.8
57.5°	692.6	579.1	531.0	457.8	675.3
60°	627.2	488.6	452.1	402.1	619.5
62.5°	573.3	421.3	413.6	363.6	561.8
65°	515.6	375.1	373.2	330.9	477.1
67.5°	459.8	344.3	342.4	300.1	363.6
70°	400.2	311.6	307.8	267.4	269.4
72.5°	338.6	275.1	271.3	240.5	223.2
75°	277.0	232.7	230.8	209.7	180.8
77.5°	217.4	184.6	188.6	169.3	132.7
80°	155.9	134.6	138.6	121.2	100.0
82.5°	103.8	88.5	92.4	77.0	67.3
85°	57.8	50.0	51.9	40.4	30.8
87.5°	27.0	23.0	23.0	15.4	9.7
90°	78.7	50.1	46.6	32.2	17.9
92.5°	485.5	345.3	314.9	193.2	71.5
95°	1194.6	672.7	617.0	394.3	171.7
97.5°	1609.1	738.9	689.8	493.4	297.0
100°	1760.0	794.4	749.8	571.7	393.6
102.5°	1829.1	849.9	808.3	642.1	475.9
105°	1880.4	932.2	897.0	756.3	615.5
107.5°	1889.9	1053.8	1021.0	889.8	758.6
110°	1875.7	1121.8	1092.2	973.7	855.2



TEST NUMBER: P935830

CATALOG NUMBER: SQ4-FA-150U-050D-92765-1D-UNV-STD-W-12-6500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1876.2	1204.1	1175.9	1063.0	950.1
115°	1893.5	1327.6	1301.6	1197.3	1093.2
117.5°	1928.6	1447.4	1423.8	1329.1	1234.5
120°	1957.3	1517.2	1494.9	1405.9	1316.8
122.5°	1998.5	1599.5	1577.0	1487.2	1397.3
125°	2054.0	1705.1	1684.6	1602.7	1520.8
127.5°	2109.4	1807.0	1786.4	1703.6	1620.9
130°	2149.9	1875.0	1852.7	1763.7	1674.7
132.5°	2182.7	1930.5	1908.2	1819.2	1730.1
135°	2218.6	1994.9	1974.6	1893.5	1812.4
137.5°	2272.2	2077.2	2057.2	1976.8	1896.5
140°	2305.0	2132.7	2114.2	2040.2	1966.3
142.5°	2332.4	2173.8	2156.7	2088.3	2020.0
145°	2368.2	2236.4	2221.5	2162.0	2102.3
147.5°	2420.7	2315.1	2300.6	2242.6	2184.5
150°	2448.1	2356.3	2343.2	2290.8	2238.3
152.5°	2466.0	2383.1	2373.2	2333.5	2293.7
155°	2505.4	2442.2	2434.8	2405.5	2376.0
157.5°	2544.7	2501.2	2494.0	2465.4	2436.9
160°	2562.7	2528.1	2522.5	2500.3	2478.0
162.5°	2581.7	2556.7	2552.5	2535.8	2519.1
165°	2609.2	2597.9	2594.1	2578.9	2563.8
167.5°	2630.7	2621.1	2619.3	2612.2	2605.1
170°	2648.6	2648.0	2646.2	2639.0	2631.8
172.5°	2649.7	2649.7	2649.3	2647.7	2646.2
175°	2660.5	2665.9	2665.9	2665.9	2665.9
177.5°	2661.7	2665.9	2665.9	2665.9	2665.9
180°	2665.9	2665.9	2665.9	2665.9	2665.9



TEST NUMBER: P935830  
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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	7.99	8.66	9.15	9.80	11.41	10.84	11.51	12.00	12.65	14.26
	3H	8.45	9.05	9.62	10.20	11.82	12.18	12.77	13.34	13.93	15.55
	4H	8.63	9.20	9.81	10.35	11.98	12.62	13.18	13.79	14.33	15.96
	6H	8.74	9.26	9.92	10.42	12.05	12.90	13.42	14.08	14.57	16.21
	8H	8.74	9.23	9.92	10.40	12.03	12.97	13.46	14.15	14.63	16.26
	12H	8.70	9.17	9.89	10.33	11.98	13.01	13.47	14.19	14.64	16.29
4H	2H	9.00	9.57	10.18	10.72	12.35	11.23	11.79	12.41	12.94	14.57
	3H	10.01	10.48	11.20	11.66	13.30	12.72	13.19	13.90	14.37	16.00
	4H	10.28	10.71	11.47	11.88	13.54	13.24	13.68	14.43	14.84	16.50
	6H	10.39	10.76	11.58	11.95	13.60	13.60	13.97	14.79	15.16	16.81
	8H	10.39	10.74	11.58	11.92	13.58	13.71	14.05	14.90	15.23	16.90
	12H	10.35	10.67	11.56	11.86	13.52	13.76	14.07	14.96	15.26	16.93
8H	4H	10.72	11.07	11.91	12.25	13.91	13.35	13.70	14.54	14.88	16.54
	6H	10.97	11.26	12.18	12.48	14.14	13.78	14.07	14.99	15.29	16.95
	8H	11.01	11.26	12.23	12.46	14.14	13.94	14.19	15.15	15.38	17.06
	12H	10.99	11.21	12.21	12.40	14.11	14.03	14.25	15.25	15.45	17.16
12H	4H	10.72	11.03	11.92	12.22	13.89	13.31	13.62	14.51	14.81	16.48
	6H	11.03	11.28	12.25	12.48	14.16	13.78	14.03	14.99	15.23	16.91
	8H	11.09	11.31	12.31	12.51	14.22	13.94	14.15	15.15	15.35	17.06