

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: P935855

Luminaire Tested: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935855
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-93050-1D-UNV-STD-W-12-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

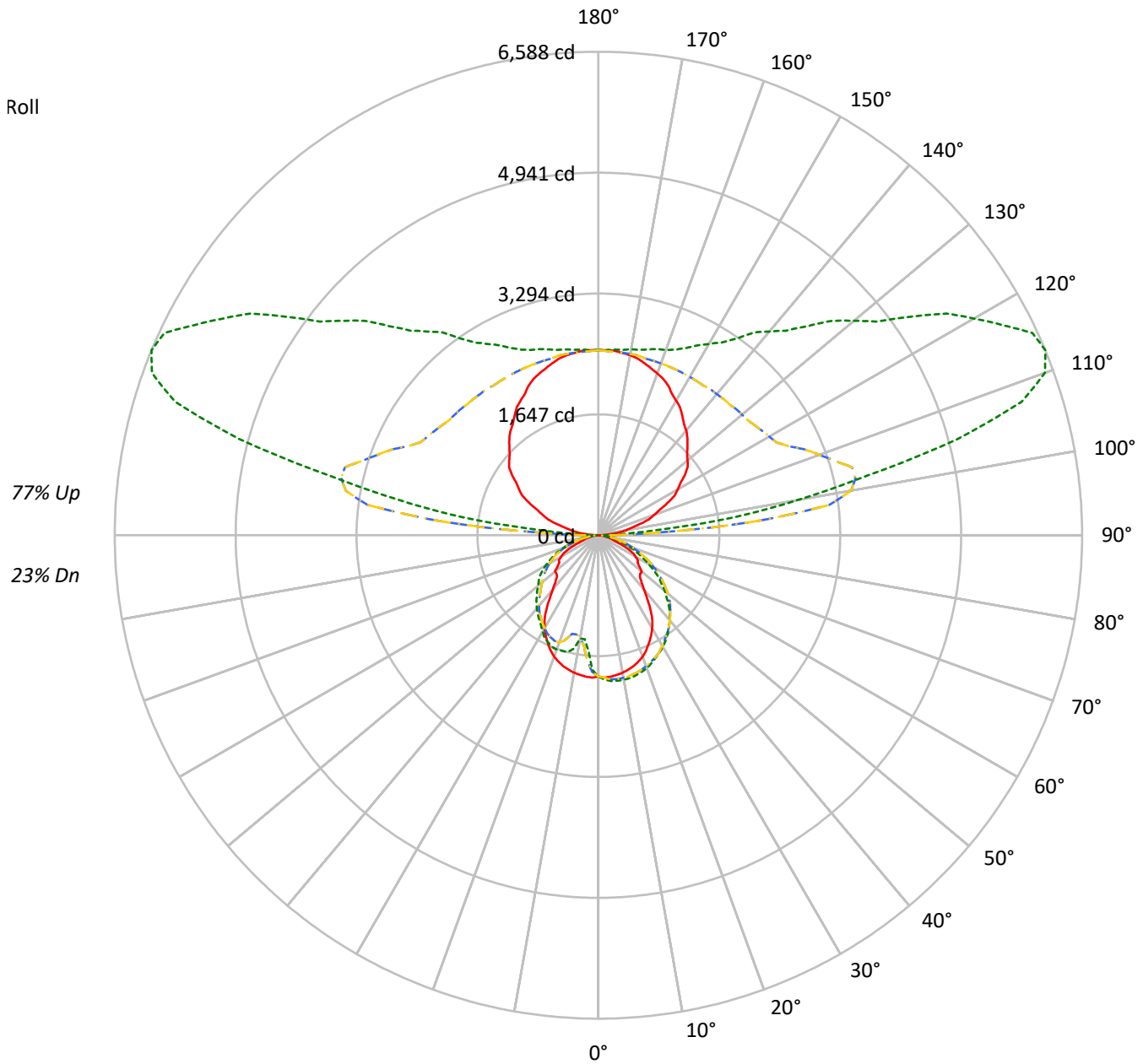
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21360.0 lumens
Efficiency: N/A
Efficacy: 128.1 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 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°	5954	5954	5954	5954
5°	6001	6010	6001	4726
10°	5963	5920	5963	4233
15°	5900	5792	5900	4836
20°	5779	5640	5779	4847
25°	5529	5419	5529	4744
30°	5204	5235	5204	4519
35°	4642	5002	4642	4271
40°	3870	4728	3870	4084
45°	3460	4407	3460	3868
50°	3679	4025	3679	3652
55°	3465	3613	3465	3527
60°	3577	3068	3577	3230
65°	3248	2536	3248	2835
70°	2254	2021	2254	2377
75°	1984	1494	1984	1789
80°	1611	988	1611	1076
85°	943	524	943	445

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 6273 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.8	0.8
10°-20°	493.4	2.3
20°-30°	762.6	3.6
30°-40°	910.4	4.3
40°-50°	915.8	4.3
50°-60°	796.8	3.7
60°-70°	565.0	2.6
70°-80°	298.9	1.4
80°-90°	84.1	0.4
90°-100°	1230.1	5.8
100°-110°	3234.0	15.1
110°-120°	3353.3	15.7
120°-130°	2689.8	12.6
130°-140°	2110.5	9.9
140°-150°	1619.9	7.6
150°-160°	1166.6	5.5
160°-170°	713.8	3.3
170°-180°	241.2	1.1
0°-30°	1429.7	6.7
0°-40°	2340.2	11.0
0°-60°	4052.8	19.0
0°-90°	5000.7	23.4
90°-120°	7817.5	36.6
90°-150°	14237.7	66.7
90°-180°	16359.0	76.6
0°-180°	21360.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1925	1925	1925	1925	1925	
5°	1934	1994	1934	1568	1934	183
15°	1847	1976	1847	1650	1847	520
25°	1626	1843	1626	1614	1626	747
35°	1236	1644	1236	1404	1236	765
45°	798	1355	798	1189	798	639
55°	650	1000	650	976	650	597
65°	452	603	452	674	452	432
75°	171	286	171	342	171	180
85°	29	73	29	62	29	39
90°	17	64	17	64	17	15
95°	163	744	163	744	163	181
105°	583	5064	583	5064	583	618
115°	1035	6521	1035	6521	1035	1022
125°	1440	5193	1440	5193	1440	1278
135°	1716	4029	1716	4029	1716	1327
145°	1990	3269	1990	3269	1990	1247
155°	2249	2815	2249	2815	2249	1033
165°	2427	2622	2427	2622	2427	685
175°	2524	2540	2524	2540	2524	240
180°	2524	2524	2524	2524	2524	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1941.3	1941.3	1952.3	1955.9	1955.9	1950.4	1945.0	1950.4	1966.8	1972.3	1970.4
5°	1934.1	1948.6	1968.6	1972.3	1976.0	1974.2	1970.4	1974.2	1992.3	1996.0	1997.8
7.5°	1919.5	1946.8	1972.3	1977.8	1983.2	1977.8	1976.0	1979.6	1997.8	2001.4	2001.4
10°	1901.3	1939.5	1968.6	1972.3	1977.8	1972.3	1972.3	1979.6	1997.8	2001.4	2003.3
12.5°	1875.8	1928.6	1955.9	1959.6	1966.8	1965.0	1963.2	1970.4	1988.7	1992.3	1992.3
15°	1846.6	1908.5	1934.1	1937.7	1950.4	1946.8	1946.8	1954.1	1974.2	1979.6	1977.8
17.5°	1806.6	1883.1	1912.2	1917.7	1926.8	1924.9	1926.8	1934.1	1952.3	1955.9	1957.8
20°	1761.1	1848.4	1883.1	1888.5	1897.7	1897.7	1897.7	1906.7	1924.9	1932.2	1932.2
22.5°	1699.2	1812.0	1848.4	1852.1	1863.0	1863.0	1866.7	1879.4	1895.8	1897.7	1897.7
25°	1626.3	1771.9	1802.9	1813.9	1824.8	1830.2	1835.8	1843.0	1848.4	1846.6	1848.4
27.5°	1549.8	1721.0	1761.1	1768.3	1782.9	1788.3	1795.7	1797.5	1799.3	1804.7	1801.1
30°	1464.2	1649.9	1710.0	1717.4	1741.0	1744.7	1737.4	1741.0	1750.1	1753.7	1757.4
32.5°	1367.7	1544.3	1657.3	1673.6	1695.5	1684.6	1682.7	1688.2	1702.8	1702.8	1706.4
35°	1236.5	1462.4	1608.1	1622.7	1639.1	1626.3	1633.5	1635.4	1644.5	1649.9	1648.1
37.5°	1092.7	1391.3	1557.1	1568.0	1580.8	1564.4	1575.3	1580.8	1588.0	1584.4	1584.4
40°	965.2	1280.3	1497.0	1504.3	1515.1	1502.5	1513.3	1517.0	1520.7	1517.0	1515.1
42.5°	870.5	1158.2	1433.2	1442.4	1435.0	1444.2	1447.8	1455.1	1449.6	1442.4	1442.4
45°	797.6	1125.5	1364.1	1374.9	1364.1	1378.7	1384.1	1384.1	1367.7	1364.1	1362.2
47.5°	774.0	1059.9	1294.8	1294.8	1289.4	1307.6	1316.6	1304.0	1287.6	1282.1	1282.1
50°	772.2	987.1	1200.2	1192.8	1218.3	1240.2	1231.1	1218.3	1205.6	1185.6	1185.6
52.5°	701.1	897.8	1078.1	1105.5	1145.5	1158.2	1143.7	1130.9	1109.1	1100.0	1092.7
55°	650.2	805.0	967.0	1021.7	1063.6	1079.9	1052.6	1039.8	1007.1	1001.7	998.0
57.5°	639.2	670.2	865.1	934.2	985.3	983.5	967.0	943.4	916.0	910.6	908.8
60°	586.5	484.4	755.8	837.7	890.5	885.1	870.5	848.7	823.2	819.5	815.9
62.5°	531.8	351.5	631.9	724.9	799.4	797.6	785.0	752.1	733.9	724.9	717.5
65°	451.7	295.0	449.9	602.8	710.3	713.9	686.6	662.9	642.8	631.9	630.1
67.5°	344.2	240.4	304.1	502.6	624.7	621.0	586.5	575.5	550.0	544.5	533.6
70°	255.0	160.3	211.3	408.0	540.9	531.8	504.4	491.7	468.1	455.3	448.0
72.5°	211.3	129.3	154.8	316.9	455.3	444.3	420.7	406.1	386.1	375.2	367.9
75°	171.2	136.6	118.4	234.9	369.7	362.4	340.5	325.9	309.6	295.0	296.8
77.5°	125.6	127.4	94.7	173.0	293.2	282.3	269.6	251.4	244.0	229.5	229.5
80°	94.7	100.2	71.1	118.4	211.3	211.3	200.3	187.5	174.8	167.5	167.5
82.5°	63.7	63.7	52.8	74.7	143.8	138.4	131.2	127.4	120.2	116.6	116.6
85°	29.1	36.4	32.8	45.5	78.3	81.9	81.9	78.3	76.5	72.9	74.7
87.5°	9.1	16.4	20.0	25.5	40.1	41.9	43.7	43.7	43.7	45.5	45.5
90°	16.9	30.5	44.1	47.4	74.5	110.6	128.7	114.4	85.8	64.4	64.4
92.5°	67.7	182.8	298.1	326.9	459.6	636.4	724.9	635.2	456.1	321.8	309.0
95°	162.6	373.3	584.1	636.8	1130.8	1789.5	2118.8	1890.7	1434.6	1092.4	1053.7
97.5°	281.1	467.1	653.0	699.5	1523.2	2621.4	3170.5	3026.4	2738.1	2521.9	2448.1
100°	372.6	541.2	709.8	752.0	1666.0	2884.7	3494.0	3504.5	3525.6	3541.4	3453.6
102.5°	450.5	607.8	765.1	804.5	1731.5	2967.5	3585.5	3769.2	4136.5	4412.0	4336.7
105°	582.7	715.9	849.1	882.4	1780.1	2976.9	3575.3	3987.1	4810.6	5428.2	5387.7
107.5°	718.2	842.3	966.5	997.6	1789.1	2844.4	3372.1	3946.4	5095.1	5956.6	5966.4
110°	809.6	921.7	1033.9	1061.9	1775.6	2727.0	3202.7	3844.9	5129.0	6092.1	6134.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	899.4	1006.3	1113.2	1139.9	1776.1	2624.4	3048.6	3705.7	5020.0	6005.7	6070.5
115°	1034.9	1133.4	1232.1	1256.7	1792.5	2506.8	2864.0	3497.1	4763.1	5712.7	5802.5
117.5°	1168.7	1258.2	1347.8	1370.1	1825.7	2433.2	2736.9	3308.3	4450.9	5308.0	5407.5
120°	1246.5	1330.9	1415.1	1436.2	1852.9	2408.4	2686.2	3208.2	4252.2	5035.2	5132.0
122.5°	1322.7	1407.8	1492.9	1514.2	1891.9	2395.4	2647.2	3117.3	4057.5	4762.6	4858.0
125°	1439.7	1517.1	1594.7	1614.1	1944.4	2384.7	2604.9	3004.2	3802.9	4401.8	4489.7
127.5°	1534.4	1612.7	1691.0	1710.6	1996.8	2378.5	2569.3	2912.2	3597.9	4112.2	4186.4
130°	1585.3	1669.6	1753.8	1774.9	2035.2	2382.2	2555.7	2860.9	3471.5	3929.3	3997.8
132.5°	1637.8	1722.1	1806.3	1827.4	2066.2	2384.6	2543.9	2817.1	3363.7	3773.5	3834.9
135°	1715.6	1792.4	1869.2	1888.4	2100.2	2382.5	2523.6	2752.4	3210.1	3553.3	3606.2
137.5°	1795.3	1871.3	1947.4	1966.4	2150.9	2397.0	2520.1	2713.6	3100.5	3390.7	3434.0
140°	1861.4	1931.3	2001.4	2018.9	2182.0	2399.5	2508.3	2675.4	3009.7	3260.3	3300.8
142.5°	1912.2	1976.9	2041.6	2057.8	2208.0	2408.2	2508.3	2655.1	2948.7	3168.9	3203.7
145°	1990.1	2046.6	2103.0	2117.1	2241.8	2408.2	2491.4	2611.4	2851.5	3031.7	3058.0
147.5°	2067.9	2122.9	2177.8	2191.6	2291.5	2424.7	2491.4	2585.9	2774.8	2916.5	2938.3
150°	2118.8	2168.5	2218.2	2230.6	2317.5	2433.4	2491.4	2571.2	2730.8	2850.4	2868.1
152.5°	2171.3	2209.0	2246.5	2255.9	2334.4	2439.0	2491.4	2559.5	2695.8	2797.9	2811.3
155°	2249.2	2277.1	2304.9	2311.9	2371.7	2451.4	2491.4	2545.6	2654.0	2735.3	2744.2
157.5°	2306.8	2333.9	2360.9	2367.7	2408.9	2463.8	2491.4	2533.5	2617.8	2681.1	2687.3
160°	2345.7	2366.8	2387.9	2393.2	2425.9	2469.6	2491.4	2527.5	2599.7	2653.9	2657.6
162.5°	2384.6	2400.5	2416.2	2420.2	2443.9	2475.5	2491.4	2521.9	2582.9	2628.6	2631.9
165°	2427.0	2441.3	2455.6	2459.2	2469.9	2484.2	2491.4	2513.2	2556.8	2589.6	2593.2
167.5°	2466.0	2472.8	2479.5	2481.2	2490.3	2502.3	2508.3	2522.6	2551.2	2572.6	2574.2
170°	2491.4	2498.2	2504.9	2506.7	2507.2	2507.9	2508.3	2522.6	2551.2	2572.6	2572.6
172.5°	2504.9	2506.4	2507.9	2508.3	2508.3	2508.3	2508.3	2519.6	2542.2	2559.2	2557.8
175°	2523.6	2523.6	2523.6	2523.6	2518.5	2511.7	2508.3	2515.4	2529.7	2540.5	2540.5
177.5°	2523.6	2523.6	2523.6	2523.6	2519.6	2514.4	2511.7	2517.3	2528.7	2537.1	2535.5
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1974.2	1968.6	1974.2	1970.4	1972.3	1966.8	1950.4	1945.0	1950.4	1955.9	1955.9
5°	1997.8	1994.2	1997.8	1997.8	1996.0	1992.3	1974.2	1970.4	1974.2	1976.0	1972.3
7.5°	2005.1	1999.6	2005.1	2001.4	2001.4	1997.8	1979.6	1976.0	1977.8	1983.2	1977.8
10°	2005.1	1999.6	2005.1	2003.3	2001.4	1997.8	1979.6	1972.3	1972.3	1977.8	1972.3
12.5°	1996.0	1992.3	1996.0	1992.3	1992.3	1988.7	1970.4	1963.2	1965.0	1966.8	1959.6
15°	1981.4	1976.0	1981.4	1977.8	1979.6	1974.2	1954.1	1946.8	1946.8	1950.4	1937.7
17.5°	1959.6	1952.3	1959.6	1957.8	1955.9	1952.3	1934.1	1926.8	1924.9	1926.8	1917.7
20°	1934.1	1928.6	1934.1	1932.2	1932.2	1924.9	1906.7	1897.7	1897.7	1897.7	1888.5
22.5°	1894.0	1888.5	1894.0	1897.7	1897.7	1895.8	1879.4	1866.7	1863.0	1863.0	1852.1
25°	1848.4	1843.0	1848.4	1848.4	1846.6	1848.4	1843.0	1835.8	1830.2	1824.8	1813.9
27.5°	1804.7	1801.1	1804.7	1801.1	1804.7	1799.3	1797.5	1795.7	1788.3	1782.9	1768.3
30°	1761.1	1757.4	1761.1	1757.4	1753.7	1750.1	1741.0	1737.4	1744.7	1741.0	1717.4
32.5°	1706.4	1702.8	1706.4	1706.4	1702.8	1702.8	1688.2	1682.7	1684.6	1695.5	1673.6
35°	1649.9	1644.5	1649.9	1648.1	1649.9	1644.5	1635.4	1633.5	1626.3	1639.1	1622.7
37.5°	1584.4	1579.0	1584.4	1584.4	1584.4	1588.0	1580.8	1575.3	1564.4	1580.8	1568.0
40°	1517.0	1509.7	1517.0	1515.1	1517.0	1520.7	1517.0	1513.3	1502.5	1515.1	1504.3
42.5°	1440.6	1438.7	1440.6	1442.4	1442.4	1449.6	1455.1	1447.8	1444.2	1435.0	1442.4
45°	1358.6	1354.9	1358.6	1362.2	1364.1	1367.7	1384.1	1384.1	1378.7	1364.1	1374.9
47.5°	1271.1	1262.1	1271.1	1282.1	1282.1	1287.6	1304.0	1316.6	1307.6	1289.4	1294.8
50°	1178.2	1180.1	1178.2	1185.6	1185.6	1205.6	1218.3	1231.1	1240.2	1218.3	1192.8
52.5°	1087.2	1085.4	1087.2	1092.7	1100.0	1109.1	1130.9	1143.7	1158.2	1145.5	1105.5
55°	996.1	999.8	996.1	998.0	1001.7	1007.1	1039.8	1052.6	1079.9	1063.6	1021.7
57.5°	905.1	899.6	905.1	908.8	910.6	916.0	943.4	967.0	983.5	985.3	934.2
60°	799.4	792.2	799.4	815.9	819.5	823.2	848.7	870.5	885.1	890.5	837.7
62.5°	706.6	693.9	706.6	717.5	724.9	733.9	752.1	785.0	797.6	799.4	724.9
65°	608.3	602.8	608.3	630.1	631.9	642.8	662.9	686.6	713.9	710.3	602.8
67.5°	519.0	519.0	519.0	533.6	544.5	550.0	575.5	586.5	621.0	624.7	502.6
70°	437.1	435.3	437.1	448.0	455.3	468.1	491.7	504.4	531.8	540.9	408.0
72.5°	358.8	356.9	358.8	367.9	375.2	386.1	406.1	420.7	444.3	455.3	316.9
75°	289.6	285.9	289.6	296.8	295.0	309.6	325.9	340.5	362.4	369.7	234.9
77.5°	222.2	222.2	222.2	229.5	229.5	244.0	251.4	269.6	282.3	293.2	173.0
80°	165.7	163.9	165.7	167.5	167.5	174.8	187.5	200.3	211.3	211.3	118.4
82.5°	116.6	112.9	116.6	116.6	116.6	120.2	127.4	131.2	138.4	143.8	74.7
85°	72.9	72.9	72.9	74.7	72.9	76.5	78.3	81.9	81.9	78.3	45.5
87.5°	47.3	45.5	47.3	45.5	45.5	43.7	43.7	43.7	41.9	40.1	25.5
90°	64.4	64.4	64.4	64.4	64.4	85.8	114.4	128.7	110.6	74.5	47.4
92.5°	257.8	206.6	257.8	309.0	321.8	456.1	635.2	724.9	636.4	459.6	326.9
95°	898.6	743.5	898.6	1053.7	1092.4	1434.6	1890.7	2118.8	1789.5	1130.8	636.8
97.5°	2153.0	1857.9	2153.0	2448.1	2521.9	2738.1	3026.4	3170.5	2621.4	1523.2	699.5
100°	3102.1	2750.5	3102.1	3453.6	3541.4	3525.6	3504.5	3494.0	2884.7	1666.0	752.0
102.5°	4035.7	3734.5	4035.7	4336.7	4412.0	4136.5	3769.2	3585.5	2967.5	1731.5	804.5
105°	5225.9	5064.1	5225.9	5387.7	5428.2	4810.6	3987.1	3575.3	2976.9	1780.1	882.4
107.5°	6005.6	6044.7	6005.6	5966.4	5956.6	5095.1	3946.4	3372.1	2844.4	1789.1	997.6
110°	6302.9	6471.5	6302.9	6134.3	6092.1	5129.0	3844.9	3202.7	2727.0	1775.6	1061.9



TEST NUMBER: P935855

CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6329.4	6588.4	6329.4	6070.5	6005.7	5020.0	3705.7	3048.6	2624.4	1776.1	1139.9
115°	6161.5	6520.6	6161.5	5802.5	5712.7	4763.1	3497.1	2864.0	2506.8	1792.5	1256.7
117.5°	5805.7	6203.9	5805.7	5407.5	5308.0	4450.9	3308.3	2736.9	2433.2	1825.7	1370.1
120°	5518.9	5905.8	5518.9	5132.0	5035.2	4252.2	3208.2	2686.2	2408.4	1852.9	1436.2
122.5°	5239.7	5621.3	5239.7	4858.0	4762.6	4057.5	3117.3	2647.2	2395.4	1891.9	1514.2
125°	4841.3	5192.8	4841.3	4489.7	4401.8	3802.9	3004.2	2604.9	2384.7	1944.4	1614.1
127.5°	4483.0	4779.5	4483.0	4186.4	4112.2	3597.9	2912.2	2569.3	2378.5	1996.8	1710.6
130°	4271.8	4545.8	4271.8	3997.8	3929.3	3471.5	2860.9	2555.7	2382.2	2035.2	1774.9
132.5°	4080.2	4325.6	4080.2	3834.9	3773.5	3363.7	2817.1	2543.9	2384.6	2066.2	1827.4
135°	3817.7	4029.2	3817.7	3606.2	3553.3	3210.1	2752.4	2523.6	2382.5	2100.2	1888.4
137.5°	3607.2	3780.2	3607.2	3434.0	3390.7	3100.5	2713.6	2520.1	2397.0	2150.9	1966.4
140°	3462.6	3624.4	3462.6	3300.8	3260.3	3009.7	2675.4	2508.3	2399.5	2182.0	2018.9
142.5°	3342.9	3482.2	3342.9	3203.7	3168.9	2948.7	2655.1	2508.3	2408.2	2208.0	2057.8
145°	3163.4	3268.8	3163.4	3058.0	3031.7	2851.5	2611.4	2491.4	2408.2	2241.8	2117.1
147.5°	3025.7	3112.9	3025.7	2938.3	2916.5	2774.8	2585.9	2491.4	2424.7	2291.5	2191.6
150°	2938.9	3009.7	2938.9	2868.1	2850.4	2730.8	2571.2	2491.4	2433.4	2317.5	2230.6
152.5°	2864.7	2918.1	2864.7	2811.3	2797.9	2695.8	2559.5	2491.4	2439.0	2334.4	2255.9
155°	2779.5	2814.9	2779.5	2744.2	2735.3	2654.0	2545.6	2491.4	2451.4	2371.7	2311.9
157.5°	2712.1	2736.9	2712.1	2687.3	2681.1	2617.8	2533.5	2491.4	2463.8	2408.9	2367.7
160°	2671.9	2686.2	2671.9	2657.6	2653.9	2599.7	2527.5	2491.4	2469.6	2425.9	2393.2
162.5°	2645.5	2659.1	2645.5	2631.9	2628.6	2582.9	2521.9	2491.4	2475.5	2443.9	2420.2
165°	2607.5	2621.8	2607.5	2593.2	2589.6	2556.8	2513.2	2491.4	2484.2	2469.9	2459.2
167.5°	2580.2	2586.2	2580.2	2574.2	2572.6	2551.2	2522.6	2508.3	2502.3	2490.3	2481.2
170°	2572.6	2572.6	2572.6	2572.6	2572.6	2551.2	2522.6	2508.3	2507.9	2507.2	2506.7
172.5°	2552.6	2547.3	2552.6	2557.8	2559.2	2542.2	2519.6	2508.3	2508.3	2508.3	2508.3
175°	2540.5	2540.5	2540.5	2540.5	2540.5	2529.7	2515.4	2508.3	2511.7	2518.5	2523.6
177.5°	2529.6	2523.6	2529.6	2535.5	2537.1	2528.7	2517.3	2511.7	2514.4	2519.6	2523.6
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P935855

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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1952.3	1941.3	1941.3	1923.1	1915.9	1910.3	1901.3	1874.0	1866.7	1859.4	1870.3
5°	1968.6	1948.6	1934.1	1901.3	1874.0	1863.0	1828.4	1762.9	1719.2	1686.4	1668.2
7.5°	1972.3	1946.8	1919.5	1868.5	1802.9	1773.8	1668.2	1548.0	1515.1	1486.1	1467.8
10°	1968.6	1939.5	1901.3	1824.8	1670.0	1619.0	1513.3	1435.0	1415.0	1409.6	1415.0
12.5°	1955.9	1928.6	1875.8	1748.3	1531.6	1497.0	1435.0	1389.5	1385.9	1395.0	1444.2
15°	1934.1	1908.5	1846.6	1646.3	1455.1	1429.6	1385.9	1369.5	1389.5	1453.2	1600.8
17.5°	1912.2	1883.1	1806.6	1546.2	1396.8	1378.7	1347.6	1380.5	1493.3	1579.0	1628.1
20°	1883.1	1848.4	1761.1	1473.3	1354.9	1338.6	1324.0	1471.5	1557.1	1588.0	1615.4
22.5°	1848.4	1812.0	1699.2	1422.3	1311.2	1298.5	1307.6	1522.5	1557.1	1579.0	1602.6
25°	1802.9	1771.9	1626.3	1382.3	1276.6	1262.1	1296.6	1517.0	1537.1	1542.5	1589.8
27.5°	1761.1	1721.0	1549.8	1345.8	1234.7	1229.3	1305.8	1493.3	1507.9	1513.3	1564.4
30°	1710.0	1649.9	1464.2	1307.6	1191.0	1189.2	1307.6	1464.2	1460.6	1475.1	1526.1
32.5°	1657.3	1544.3	1367.7	1260.3	1149.1	1147.3	1294.8	1420.5	1416.8	1436.9	1475.1
35°	1608.1	1462.4	1236.5	1205.6	1096.3	1098.1	1263.9	1369.5	1371.3	1389.5	1413.2
37.5°	1557.1	1391.3	1092.7	1145.5	1045.4	1045.4	1222.0	1322.2	1318.5	1324.0	1356.7
40°	1497.0	1280.3	965.2	1067.2	998.0	992.5	1171.0	1271.1	1258.4	1256.6	1302.1
42.5°	1433.2	1158.2	870.5	963.4	943.4	936.0	1109.1	1209.2	1185.6	1191.0	1249.3
45°	1364.1	1125.5	797.6	814.0	886.9	881.4	1041.7	1138.2	1121.9	1136.4	1196.5
47.5°	1294.8	1059.9	774.0	675.6	826.8	825.0	967.0	1069.0	1059.9	1074.5	1138.2
50°	1200.2	987.1	772.2	579.1	759.4	766.7	877.8	1001.7	1001.7	1014.4	1081.8
52.5°	1078.1	897.8	701.1	524.5	681.1	702.9	799.4	943.4	947.0	959.7	1019.8
55°	967.0	805.0	650.2	482.6	588.3	635.6	723.0	883.3	890.5	903.3	957.9
57.5°	865.1	670.2	639.2	433.4	502.6	548.2	655.6	825.0	828.6	839.5	892.4
60°	755.8	484.4	586.5	380.6	428.0	462.5	593.7	755.8	768.5	775.8	821.3
62.5°	631.9	351.5	531.8	344.2	391.6	398.8	542.7	690.2	706.6	712.1	739.4
65°	449.9	295.0	451.7	313.3	353.3	355.1	488.1	622.8	637.4	646.5	666.6
67.5°	304.1	240.4	344.2	284.1	324.1	325.9	435.3	544.5	564.5	571.9	584.6
70°	211.3	160.3	255.0	253.2	291.4	295.0	378.8	473.5	491.7	497.2	504.4
72.5°	154.8	129.3	211.3	227.6	256.8	260.4	320.5	393.4	411.6	417.0	420.7
75°	118.4	136.6	171.2	198.5	218.5	220.3	262.2	320.5	333.3	336.9	338.7
77.5°	94.7	127.4	125.6	160.3	178.5	174.8	205.8	247.7	258.6	258.6	258.6
80°	71.1	100.2	94.7	114.8	131.2	127.4	147.5	176.7	180.3	183.9	182.1
82.5°	52.8	63.7	63.7	72.9	87.4	83.8	98.3	114.8	114.8	114.8	118.4
85°	32.8	36.4	29.1	38.3	49.2	47.3	54.7	61.9	63.7	63.7	60.1
87.5°	20.0	16.4	9.1	14.6	21.8	21.8	25.5	27.3	25.5	25.5	25.5
90°	44.1	30.5	16.9	30.5	44.1	47.4	74.5	110.6	128.7	114.4	85.8
92.5°	298.1	182.8	67.7	182.8	298.1	326.9	459.6	636.4	724.9	635.2	456.1
95°	584.1	373.3	162.6	373.3	584.1	636.8	1130.8	1789.5	2118.8	1890.7	1434.6
97.5°	653.0	467.1	281.1	467.1	653.0	699.5	1523.2	2621.4	3170.5	3026.4	2738.1
100°	709.8	541.2	372.6	541.2	709.8	752.0	1666.0	2884.7	3494.0	3504.5	3525.6
102.5°	765.1	607.8	450.5	607.8	765.1	804.5	1731.5	2967.5	3585.5	3769.2	4136.5
105°	849.1	715.9	582.7	715.9	849.1	882.4	1780.1	2976.9	3575.3	3987.1	4810.6
107.5°	966.5	842.3	718.2	842.3	966.5	997.6	1789.1	2844.4	3372.1	3946.4	5095.1
110°	1033.9	921.7	809.6	921.7	1033.9	1061.9	1775.6	2727.0	3202.7	3844.9	5129.0



TEST NUMBER: P935855

CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1113.2	1006.3	899.4	1006.3	1113.2	1139.9	1776.1	2624.4	3048.6	3705.7	5020.0
115°	1232.1	1133.4	1034.9	1133.4	1232.1	1256.7	1792.5	2506.8	2864.0	3497.1	4763.1
117.5°	1347.8	1258.2	1168.7	1258.2	1347.8	1370.1	1825.7	2433.2	2736.9	3308.3	4450.9
120°	1415.1	1330.9	1246.5	1330.9	1415.1	1436.2	1852.9	2408.4	2686.2	3208.2	4252.2
122.5°	1492.9	1407.8	1322.7	1407.8	1492.9	1514.2	1891.9	2395.4	2647.2	3117.3	4057.5
125°	1594.7	1517.1	1439.7	1517.1	1594.7	1614.1	1944.4	2384.7	2604.9	3004.2	3802.9
127.5°	1691.0	1612.7	1534.4	1612.7	1691.0	1710.6	1996.8	2378.5	2569.3	2912.2	3597.9
130°	1753.8	1669.6	1585.3	1669.6	1753.8	1774.9	2035.2	2382.2	2555.7	2860.9	3471.5
132.5°	1806.3	1722.1	1637.8	1722.1	1806.3	1827.4	2066.2	2384.6	2543.9	2817.1	3363.7
135°	1869.2	1792.4	1715.6	1792.4	1869.2	1888.4	2100.2	2382.5	2523.6	2752.4	3210.1
137.5°	1947.4	1871.3	1795.3	1871.3	1947.4	1966.4	2150.9	2397.0	2520.1	2713.6	3100.5
140°	2001.4	1931.3	1861.4	1931.3	2001.4	2018.9	2182.0	2399.5	2508.3	2675.4	3009.7
142.5°	2041.6	1976.9	1912.2	1976.9	2041.6	2057.8	2208.0	2408.2	2508.3	2655.1	2948.7
145°	2103.0	2046.6	1990.1	2046.6	2103.0	2117.1	2241.8	2408.2	2491.4	2611.4	2851.5
147.5°	2177.8	2122.9	2067.9	2122.9	2177.8	2191.6	2291.5	2424.7	2491.4	2585.9	2774.8
150°	2218.2	2168.5	2118.8	2168.5	2218.2	2230.6	2317.5	2433.4	2491.4	2571.2	2730.8
152.5°	2246.5	2209.0	2171.3	2209.0	2246.5	2255.9	2334.4	2439.0	2491.4	2559.5	2695.8
155°	2304.9	2277.1	2249.2	2277.1	2304.9	2311.9	2371.7	2451.4	2491.4	2545.6	2654.0
157.5°	2360.9	2333.9	2306.8	2333.9	2360.9	2367.7	2408.9	2463.8	2491.4	2533.5	2617.8
160°	2387.9	2366.8	2345.7	2366.8	2387.9	2393.2	2425.9	2469.6	2491.4	2527.5	2599.7
162.5°	2416.2	2400.5	2384.6	2400.5	2416.2	2420.2	2443.9	2475.5	2491.4	2521.9	2582.9
165°	2455.6	2441.3	2427.0	2441.3	2455.6	2459.2	2469.9	2484.2	2491.4	2513.2	2556.8
167.5°	2479.5	2472.8	2466.0	2472.8	2479.5	2481.2	2490.3	2502.3	2508.3	2522.6	2551.2
170°	2504.9	2498.2	2491.4	2498.2	2504.9	2506.7	2507.2	2507.9	2508.3	2522.6	2551.2
172.5°	2507.9	2506.4	2504.9	2506.4	2507.9	2508.3	2508.3	2508.3	2508.3	2519.6	2542.2
175°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2518.5	2511.7	2508.3	2515.4	2529.7
177.5°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2519.6	2514.4	2511.7	2517.3	2528.7
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P935855
 CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1857.6	1852.1	1859.4	1839.4	1859.4	1852.1	1857.6	1870.3	1859.4	1866.7	1874.0
5°	1629.9	1620.8	1591.7	1568.0	1591.7	1620.8	1629.9	1668.2	1686.4	1719.2	1762.9
7.5°	1456.9	1449.6	1442.4	1427.8	1442.4	1449.6	1456.9	1467.8	1486.1	1515.1	1548.0
10°	1418.7	1420.5	1431.4	1429.6	1431.4	1420.5	1418.7	1415.0	1409.6	1415.0	1435.0
12.5°	1517.0	1533.4	1593.5	1589.8	1593.5	1533.4	1517.0	1444.2	1395.0	1385.9	1389.5
15°	1629.9	1635.4	1648.1	1649.9	1648.1	1635.4	1629.9	1600.8	1453.2	1389.5	1369.5
17.5°	1640.9	1642.7	1651.7	1651.7	1651.7	1642.7	1640.9	1628.1	1579.0	1493.3	1380.5
20°	1631.7	1635.4	1653.6	1657.3	1653.6	1635.4	1631.7	1615.4	1588.0	1557.1	1471.5
22.5°	1628.1	1635.4	1649.9	1648.1	1649.9	1635.4	1628.1	1602.6	1579.0	1557.1	1522.5
25°	1609.9	1609.9	1611.7	1613.5	1611.7	1609.9	1609.9	1589.8	1542.5	1537.1	1517.0
27.5°	1571.6	1575.3	1586.2	1584.4	1586.2	1575.3	1571.6	1564.4	1513.3	1507.9	1493.3
30°	1537.1	1533.4	1524.3	1517.0	1524.3	1533.4	1537.1	1526.1	1475.1	1460.6	1464.2
32.5°	1478.8	1469.6	1460.6	1455.1	1460.6	1469.6	1478.8	1475.1	1436.9	1416.8	1420.5
35°	1409.6	1411.4	1409.6	1404.1	1409.6	1411.4	1409.6	1413.2	1389.5	1371.3	1369.5
37.5°	1360.4	1364.1	1362.2	1354.9	1362.2	1364.1	1360.4	1356.7	1324.0	1318.5	1322.2
40°	1309.4	1311.2	1309.4	1304.0	1309.4	1311.2	1309.4	1302.1	1256.6	1258.4	1271.1
42.5°	1260.3	1258.4	1252.9	1249.3	1252.9	1258.4	1260.3	1249.3	1191.0	1185.6	1209.2
45°	1203.8	1205.6	1194.6	1189.2	1194.6	1205.6	1203.8	1196.5	1136.4	1121.9	1138.2
47.5°	1147.3	1147.3	1138.2	1132.7	1138.2	1147.3	1147.3	1138.2	1074.5	1059.9	1069.0
50°	1087.2	1085.4	1072.6	1070.8	1072.6	1085.4	1087.2	1081.8	1014.4	1001.7	1001.7
52.5°	1018.0	1018.0	1019.8	1023.5	1019.8	1018.0	1018.0	1019.8	959.7	947.0	943.4
55°	957.9	959.7	972.5	976.1	972.5	959.7	957.9	957.9	903.3	890.5	883.3
57.5°	896.0	896.0	905.1	905.1	905.1	896.0	896.0	892.4	839.5	828.6	825.0
60°	825.0	828.6	835.9	834.1	835.9	828.6	825.0	821.3	775.8	768.5	755.8
62.5°	750.3	754.0	755.8	752.1	755.8	754.0	750.3	739.4	712.1	706.6	690.2
65°	672.0	675.6	677.4	673.8	677.4	675.6	672.0	666.6	646.5	637.4	622.8
67.5°	591.9	590.1	588.3	595.5	588.3	590.1	591.9	584.6	571.9	564.5	544.5
70°	509.9	509.9	508.1	511.8	508.1	509.9	509.9	504.4	497.2	491.7	473.5
72.5°	422.5	420.7	428.0	422.5	428.0	420.7	422.5	420.7	417.0	411.6	393.4
75°	336.9	340.5	336.9	342.3	336.9	340.5	336.9	338.7	336.9	333.3	320.5
77.5°	256.8	260.4	256.8	256.8	256.8	260.4	256.8	258.6	258.6	258.6	247.7
80°	182.1	180.3	180.3	178.5	180.3	180.3	182.1	182.1	183.9	180.3	176.7
82.5°	116.6	114.8	114.8	118.4	114.8	114.8	116.6	118.4	114.8	114.8	114.8
85°	63.7	65.5	61.9	61.9	61.9	65.5	63.7	60.1	63.7	63.7	61.9
87.5°	23.7	21.8	21.8	21.8	21.8	21.8	23.7	25.5	25.5	25.5	27.3
90°	64.4	64.4	64.4	64.4	64.4	64.4	64.4	85.8	114.4	128.7	110.6
92.5°	321.8	309.0	257.8	206.6	257.8	309.0	321.8	456.1	635.2	724.9	636.4
95°	1092.4	1053.7	898.6	743.5	898.6	1053.7	1092.4	1434.6	1890.7	2118.8	1789.5
97.5°	2521.9	2448.1	2153.0	1857.9	2153.0	2448.1	2521.9	2738.1	3026.4	3170.5	2621.4
100°	3541.4	3453.6	3102.1	2750.5	3102.1	3453.6	3541.4	3525.6	3504.5	3494.0	2884.7
102.5°	4412.0	4336.7	4035.7	3734.5	4035.7	4336.7	4412.0	4136.5	3769.2	3585.5	2967.5
105°	5428.2	5387.7	5225.9	5064.1	5225.9	5387.7	5428.2	4810.6	3987.1	3575.3	2976.9
107.5°	5956.6	5966.4	6005.6	6044.7	6005.6	5966.4	5956.6	5095.1	3946.4	3372.1	2844.4
110°	6092.1	6134.3	6302.9	6471.5	6302.9	6134.3	6092.1	5129.0	3844.9	3202.7	2727.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6005.7	6070.5	6329.4	6588.4	6329.4	6070.5	6005.7	5020.0	3705.7	3048.6	2624.4
115°	5712.7	5802.5	6161.5	6520.6	6161.5	5802.5	5712.7	4763.1	3497.1	2864.0	2506.8
117.5°	5308.0	5407.5	5805.7	6203.9	5805.7	5407.5	5308.0	4450.9	3308.3	2736.9	2433.2
120°	5035.2	5132.0	5518.9	5905.8	5518.9	5132.0	5035.2	4252.2	3208.2	2686.2	2408.4
122.5°	4762.6	4858.0	5239.7	5621.3	5239.7	4858.0	4762.6	4057.5	3117.3	2647.2	2395.4
125°	4401.8	4489.7	4841.3	5192.8	4841.3	4489.7	4401.8	3802.9	3004.2	2604.9	2384.7
127.5°	4112.2	4186.4	4483.0	4779.5	4483.0	4186.4	4112.2	3597.9	2912.2	2569.3	2378.5
130°	3929.3	3997.8	4271.8	4545.8	4271.8	3997.8	3929.3	3471.5	2860.9	2555.7	2382.2
132.5°	3773.5	3834.9	4080.2	4325.6	4080.2	3834.9	3773.5	3363.7	2817.1	2543.9	2384.6
135°	3553.3	3606.2	3817.7	4029.2	3817.7	3606.2	3553.3	3210.1	2752.4	2523.6	2382.5
137.5°	3390.7	3434.0	3607.2	3780.2	3607.2	3434.0	3390.7	3100.5	2713.6	2520.1	2397.0
140°	3260.3	3300.8	3462.6	3624.4	3462.6	3300.8	3260.3	3009.7	2675.4	2508.3	2399.5
142.5°	3168.9	3203.7	3342.9	3482.2	3342.9	3203.7	3168.9	2948.7	2655.1	2508.3	2408.2
145°	3031.7	3058.0	3163.4	3268.8	3163.4	3058.0	3031.7	2851.5	2611.4	2491.4	2408.2
147.5°	2916.5	2938.3	3025.7	3112.9	3025.7	2938.3	2916.5	2774.8	2585.9	2491.4	2424.7
150°	2850.4	2868.1	2938.9	3009.7	2938.9	2868.1	2850.4	2730.8	2571.2	2491.4	2433.4
152.5°	2797.9	2811.3	2864.7	2918.1	2864.7	2811.3	2797.9	2695.8	2559.5	2491.4	2439.0
155°	2735.3	2744.2	2779.5	2814.9	2779.5	2744.2	2735.3	2654.0	2545.6	2491.4	2451.4
157.5°	2681.1	2687.3	2712.1	2736.9	2712.1	2687.3	2681.1	2617.8	2533.5	2491.4	2463.8
160°	2653.9	2657.6	2671.9	2686.2	2671.9	2657.6	2653.9	2599.7	2527.5	2491.4	2469.6
162.5°	2628.6	2631.9	2645.5	2659.1	2645.5	2631.9	2628.6	2582.9	2521.9	2491.4	2475.5
165°	2589.6	2593.2	2607.5	2621.8	2607.5	2593.2	2589.6	2556.8	2513.2	2491.4	2484.2
167.5°	2572.6	2574.2	2580.2	2586.2	2580.2	2574.2	2572.6	2551.2	2522.6	2508.3	2502.3
170°	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2572.6	2551.2	2522.6	2508.3	2507.9
172.5°	2559.2	2557.8	2552.6	2547.3	2552.6	2557.8	2559.2	2542.2	2519.6	2508.3	2508.3
175°	2540.5	2540.5	2540.5	2540.5	2540.5	2540.5	2540.5	2529.7	2515.4	2508.3	2511.7
177.5°	2537.1	2535.5	2529.6	2523.6	2529.6	2535.5	2537.1	2528.7	2517.3	2511.7	2514.4
180°	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P935855

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1924.9	1924.9	1924.9	1924.9	1924.9
2.5°	1901.3	1910.3	1915.9	1923.1	1941.3
5°	1828.4	1863.0	1874.0	1901.3	1934.1
7.5°	1668.2	1773.8	1802.9	1868.5	1919.5
10°	1513.3	1619.0	1670.0	1824.8	1901.3
12.5°	1435.0	1497.0	1531.6	1748.3	1875.8
15°	1385.9	1429.6	1455.1	1646.3	1846.6
17.5°	1347.6	1378.7	1396.8	1546.2	1806.6
20°	1324.0	1338.6	1354.9	1473.3	1761.1
22.5°	1307.6	1298.5	1311.2	1422.3	1699.2
25°	1296.6	1262.1	1276.6	1382.3	1626.3
27.5°	1305.8	1229.3	1234.7	1345.8	1549.8
30°	1307.6	1189.2	1191.0	1307.6	1464.2
32.5°	1294.8	1147.3	1149.1	1260.3	1367.7
35°	1263.9	1098.1	1096.3	1205.6	1236.5
37.5°	1222.0	1045.4	1045.4	1145.5	1092.7
40°	1171.0	992.5	998.0	1067.2	965.2
42.5°	1109.1	936.0	943.4	963.4	870.5
45°	1041.7	881.4	886.9	814.0	797.6
47.5°	967.0	825.0	826.8	675.6	774.0
50°	877.8	766.7	759.4	579.1	772.2
52.5°	799.4	702.9	681.1	524.5	701.1
55°	723.0	635.6	588.3	482.6	650.2
57.5°	655.6	548.2	502.6	433.4	639.2
60°	593.7	462.5	428.0	380.6	586.5
62.5°	542.7	398.8	391.6	344.2	531.8
65°	488.1	355.1	353.3	313.3	451.7
67.5°	435.3	325.9	324.1	284.1	344.2
70°	378.8	295.0	291.4	253.2	255.0
72.5°	320.5	260.4	256.8	227.6	211.3
75°	262.2	220.3	218.5	198.5	171.2
77.5°	205.8	174.8	178.5	160.3	125.6
80°	147.5	127.4	131.2	114.8	94.7
82.5°	98.3	83.8	87.4	72.9	63.7
85°	54.7	47.3	49.2	38.3	29.1
87.5°	25.5	21.8	21.8	14.6	9.1
90°	74.5	47.4	44.1	30.5	16.9
92.5°	459.6	326.9	298.1	182.8	67.7
95°	1130.8	636.8	584.1	373.3	162.6
97.5°	1523.2	699.5	653.0	467.1	281.1
100°	1666.0	752.0	709.8	541.2	372.6
102.5°	1731.5	804.5	765.1	607.8	450.5
105°	1780.1	882.4	849.1	715.9	582.7
107.5°	1789.1	997.6	966.5	842.3	718.2
110°	1775.6	1061.9	1033.9	921.7	809.6



TEST NUMBER: P935855

CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1776.1	1139.9	1113.2	1006.3	899.4
115°	1792.5	1256.7	1232.1	1133.4	1034.9
117.5°	1825.7	1370.1	1347.8	1258.2	1168.7
120°	1852.9	1436.2	1415.1	1330.9	1246.5
122.5°	1891.9	1514.2	1492.9	1407.8	1322.7
125°	1944.4	1614.1	1594.7	1517.1	1439.7
127.5°	1996.8	1710.6	1691.0	1612.7	1534.4
130°	2035.2	1774.9	1753.8	1669.6	1585.3
132.5°	2066.2	1827.4	1806.3	1722.1	1637.8
135°	2100.2	1888.4	1869.2	1792.4	1715.6
137.5°	2150.9	1966.4	1947.4	1871.3	1795.3
140°	2182.0	2018.9	2001.4	1931.3	1861.4
142.5°	2208.0	2057.8	2041.6	1976.9	1912.2
145°	2241.8	2117.1	2103.0	2046.6	1990.1
147.5°	2291.5	2191.6	2177.8	2122.9	2067.9
150°	2317.5	2230.6	2218.2	2168.5	2118.8
152.5°	2334.4	2255.9	2246.5	2209.0	2171.3
155°	2371.7	2311.9	2304.9	2277.1	2249.2
157.5°	2408.9	2367.7	2360.9	2333.9	2306.8
160°	2425.9	2393.2	2387.9	2366.8	2345.7
162.5°	2443.9	2420.2	2416.2	2400.5	2384.6
165°	2469.9	2459.2	2455.6	2441.3	2427.0
167.5°	2490.3	2481.2	2479.5	2472.8	2466.0
170°	2507.2	2506.7	2504.9	2498.2	2491.4
172.5°	2508.3	2508.3	2507.9	2506.4	2504.9
175°	2518.5	2523.6	2523.6	2523.6	2523.6
177.5°	2519.6	2523.6	2523.6	2523.6	2523.6
180°	2523.6	2523.6	2523.6	2523.6	2523.6



TEST NUMBER: P935855
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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	7.80	8.47	8.96	9.61	11.22	10.65	11.32	11.81	12.46	14.07
	3H	8.26	8.86	9.43	10.01	11.63	11.99	12.58	13.15	13.73	15.36
	4H	8.44	9.01	9.62	10.16	11.79	12.43	12.99	13.60	14.14	15.77
	6H	8.55	9.07	9.73	10.23	11.86	12.71	13.23	13.89	14.38	16.02
	8H	8.55	9.04	9.73	10.21	11.84	12.78	13.27	13.96	14.44	16.07
	12H	8.51	8.98	9.70	10.14	11.79	12.81	13.28	14.00	14.45	16.10
4H	2H	8.81	9.38	9.99	10.53	12.16	11.04	11.60	12.22	12.75	14.38
	3H	9.82	10.29	11.01	11.47	13.11	12.53	13.00	13.71	14.18	15.81
	4H	10.09	10.52	11.28	11.69	13.34	13.05	13.49	14.24	14.65	16.31
	6H	10.20	10.57	11.39	11.76	13.41	13.41	13.78	14.60	14.97	16.62
	8H	10.20	10.55	11.39	11.73	13.39	13.52	13.86	14.71	15.04	16.71
	12H	10.16	10.48	11.37	11.67	13.33	13.57	13.88	14.77	15.07	16.74
8H	4H	10.53	10.88	11.72	12.06	13.72	13.16	13.51	14.35	14.69	16.35
	6H	10.78	11.07	11.99	12.29	13.95	13.59	13.88	14.80	15.10	16.76
	8H	10.82	11.07	12.04	12.27	13.95	13.75	14.00	14.96	15.19	16.87
	12H	10.80	11.02	12.02	12.21	13.92	13.84	14.06	15.06	15.26	16.97
12H	4H	10.53	10.84	11.73	12.03	13.70	13.12	13.43	14.32	14.62	16.29
	6H	10.84	11.09	12.06	12.29	13.97	13.59	13.84	14.80	15.04	16.72
	8H	10.90	11.12	12.12	12.32	14.03	13.75	13.96	14.96	15.16	16.87