

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: P935856

Luminaire Tested: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935856
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-12-500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

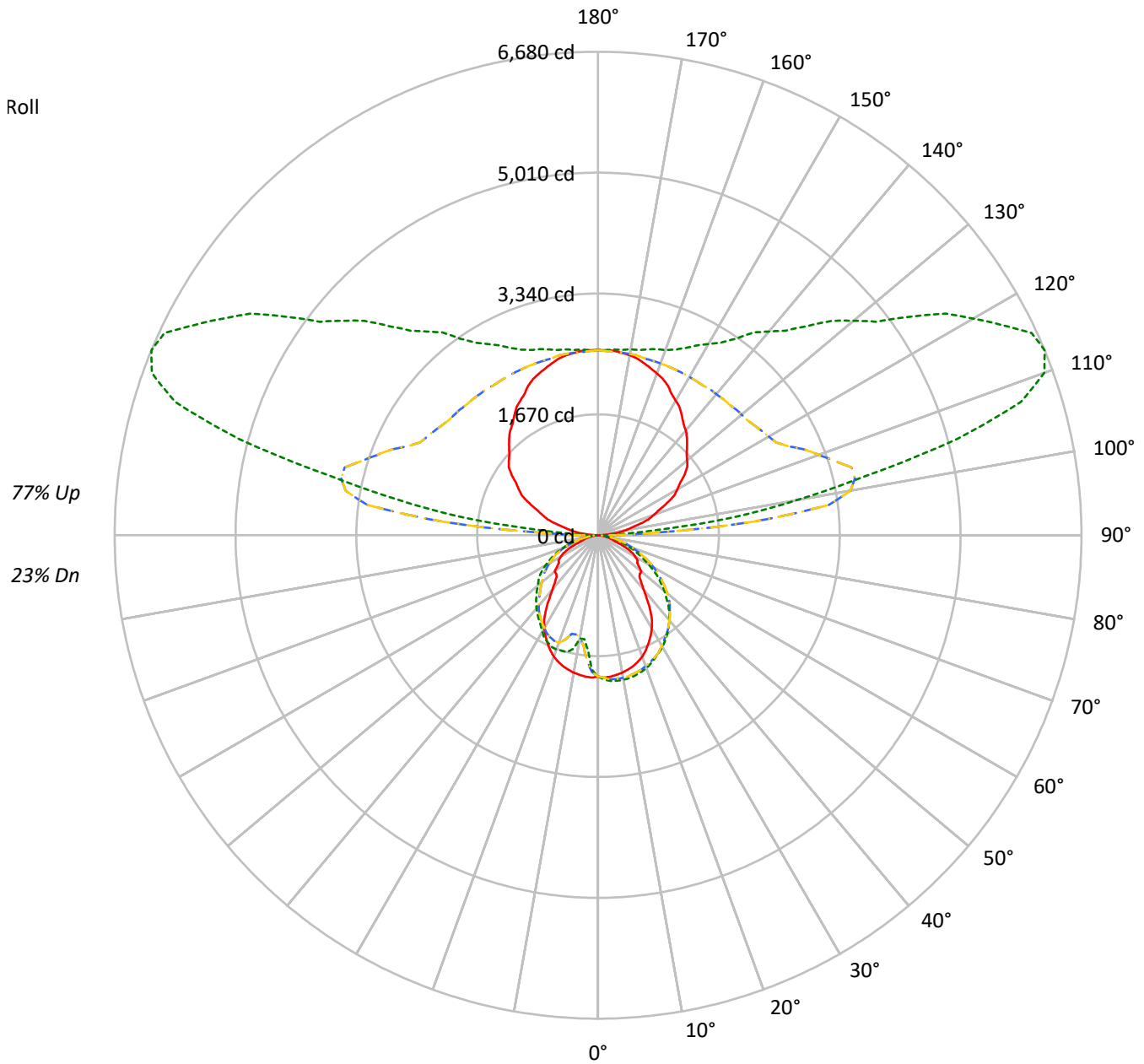
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21655.7 lumens
Efficiency: N/A
Efficacy: 129.8 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°	6036	6036	6036	6036
5°	6084	6094	6084	4791
10°	6045	6002	6045	4291
15°	5982	5872	5982	4904
20°	5859	5718	5859	4914
25°	5605	5494	5605	4810
30°	5277	5307	5277	4581
35°	4706	5071	4706	4330
40°	3923	4793	3923	4140
45°	3508	4468	3508	3922
50°	3730	4080	3730	3702
55°	3513	3663	3513	3576
60°	3626	3111	3626	3275
65°	3292	2572	3292	2874
70°	2285	2049	2285	2410
75°	2011	1515	2011	1814
80°	1633	1002	1633	1091
85°	956	531	956	451

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 6384 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	176.2	0.8
10°-20°	500.2	2.3
20°-30°	773.2	3.6
30°-40°	923.0	4.3
40°-50°	928.4	4.3
50°-60°	807.9	3.7
60°-70°	572.8	2.6
70°-80°	303.0	1.4
80°-90°	85.2	0.4
90°-100°	1247.1	5.8
100°-110°	3278.8	15.1
110°-120°	3399.8	15.7
120°-130°	2727.0	12.6
130°-140°	2139.7	9.9
140°-150°	1642.3	7.6
150°-160°	1182.8	5.5
160°-170°	723.7	3.3
170°-180°	244.5	1.1
0°-30°	1449.5	6.7
0°-40°	2372.6	11.0
0°-60°	4108.9	19.0
0°-90°	5069.9	23.4
90°-120°	7925.7	36.6
90°-150°	14434.9	66.7
90°-180°	16586.0	76.6
0°-180°	21655.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1952	1952	1952	1952	1952	
5°	1961	2022	1961	1590	1961	186
15°	1872	2003	1872	1673	1872	527
25°	1649	1868	1649	1636	1649	757
35°	1254	1667	1254	1424	1254	776
45°	809	1374	809	1206	809	648
55°	659	1014	659	990	659	606
65°	458	611	458	683	458	438
75°	174	290	174	347	174	182
85°	30	74	30	63	30	40
90°	17	65	17	65	17	15
95°	165	754	165	754	165	183
105°	591	5134	591	5134	591	626
115°	1049	6611	1049	6611	1049	1036
125°	1460	5265	1460	5265	1460	1296
135°	1739	4085	1739	4085	1739	1346
145°	2018	3314	2018	3314	2018	1264
155°	2280	2854	2280	2854	2280	1048
165°	2461	2658	2461	2658	2461	694
175°	2558	2576	2558	2576	2558	243
180°	2558	2558	2558	2558	2558	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1968.2	1968.2	1979.3	1983.0	1983.0	1977.4	1971.9	1977.4	1994.1	1999.6	1997.7
5°	1960.8	1975.6	1995.9	1999.6	2003.3	2001.5	1997.7	2001.5	2019.9	2023.6	2025.4
7.5°	1946.1	1973.8	1999.6	2005.2	2010.7	2005.2	2003.3	2007.0	2025.4	2029.1	2029.1
10°	1927.6	1966.3	1995.9	1999.6	2005.2	1999.6	1999.6	2007.0	2025.4	2029.1	2031.0
12.5°	1901.7	1955.3	1983.0	1986.7	1994.1	1992.2	1990.4	1997.7	2016.3	2019.9	2019.9
15°	1872.2	1935.0	1960.8	1964.5	1977.4	1973.8	1973.8	1981.1	2001.5	2007.0	2005.2
17.5°	1831.6	1909.2	1938.7	1944.2	1953.5	1951.6	1953.5	1960.8	1979.3	1983.0	1984.9
20°	1785.5	1874.0	1909.2	1914.7	1923.9	1923.9	1923.9	1933.1	1951.6	1959.0	1959.0
22.5°	1722.7	1837.1	1874.0	1877.8	1888.8	1888.8	1892.6	1905.4	1922.0	1923.9	1923.9
25°	1648.8	1796.5	1827.9	1839.0	1850.1	1855.6	1861.2	1868.5	1874.0	1872.2	1874.0
27.5°	1571.3	1744.8	1785.5	1792.8	1807.6	1813.1	1820.5	1822.4	1824.2	1829.7	1826.0
30°	1484.5	1672.8	1733.7	1741.1	1765.1	1768.9	1761.4	1765.1	1774.4	1778.0	1781.7
32.5°	1386.6	1565.7	1680.2	1696.8	1718.9	1707.9	1706.0	1711.6	1726.4	1726.4	1730.0
35°	1253.7	1482.6	1630.4	1645.2	1661.8	1648.8	1656.2	1658.0	1667.3	1672.8	1670.9
37.5°	1107.8	1410.6	1578.6	1589.7	1602.7	1586.1	1597.1	1602.7	1610.0	1606.3	1606.3
40°	978.5	1298.0	1517.7	1525.1	1536.1	1523.3	1534.3	1538.1	1541.7	1538.1	1536.1
42.5°	882.5	1174.3	1453.1	1462.3	1454.9	1464.2	1467.9	1475.3	1469.7	1462.3	1462.3
45°	808.7	1141.1	1383.0	1394.0	1383.0	1397.7	1403.2	1403.2	1386.6	1383.0	1381.0
47.5°	784.7	1074.6	1312.8	1312.8	1307.3	1325.7	1334.9	1322.0	1305.4	1299.8	1299.8
50°	782.9	1000.7	1216.8	1209.3	1235.2	1257.3	1248.2	1235.2	1222.3	1202.0	1202.0
52.5°	710.8	910.3	1093.1	1120.8	1161.3	1174.3	1159.5	1146.6	1124.5	1115.2	1107.8
55°	659.2	816.1	980.4	1035.8	1078.3	1094.9	1067.2	1054.2	1021.0	1015.5	1011.9
57.5°	648.1	679.5	877.0	947.2	998.9	997.1	980.4	956.4	928.7	923.2	921.4
60°	594.6	491.2	766.3	849.3	902.8	897.3	882.5	860.4	834.6	830.9	827.2
62.5°	539.1	356.3	640.6	734.9	810.5	808.7	795.8	762.5	744.1	734.9	727.5
65°	457.9	299.1	456.1	611.2	720.1	723.8	696.1	672.1	651.7	640.6	638.8
67.5°	349.0	243.7	308.3	509.6	633.3	629.6	594.6	583.5	557.6	552.1	541.0
70°	258.5	162.5	214.2	413.6	548.4	539.1	511.4	498.5	474.5	461.6	454.2
72.5°	214.2	131.0	156.9	321.3	461.6	450.5	426.5	411.8	391.4	380.4	373.0
75°	173.5	138.5	120.0	238.1	374.8	367.4	345.2	330.5	313.9	299.1	300.9
77.5°	127.4	129.2	96.0	175.4	297.2	286.2	273.3	254.8	247.4	232.6	232.6
80°	96.0	101.6	72.0	120.0	214.2	214.2	203.1	190.1	177.2	169.9	169.9
82.5°	64.6	64.6	53.5	75.7	145.8	140.3	133.0	129.2	121.9	118.2	118.2
85°	29.5	36.9	33.2	46.2	79.4	83.1	83.1	79.4	77.5	73.9	75.7
87.5°	9.3	16.6	20.3	25.9	40.7	42.5	44.3	44.3	44.3	46.2	46.2
90°	17.2	30.9	44.7	48.1	75.5	112.1	130.5	116.0	87.0	65.2	65.2
92.5°	68.6	185.4	302.2	331.4	465.9	645.2	734.9	644.0	462.4	326.2	313.3
95°	164.8	378.5	592.2	645.6	1146.5	1814.3	2148.1	1916.9	1454.5	1107.6	1068.3
97.5°	285.0	473.5	662.0	709.2	1544.3	2657.7	3214.4	3068.3	2776.0	2556.8	2482.0
100°	377.7	548.7	719.7	762.4	1689.1	2924.6	3542.4	3553.0	3574.4	3590.5	3501.4
102.5°	456.7	616.2	775.7	815.6	1755.5	3008.6	3635.2	3821.4	4193.8	4473.1	4396.8
105°	590.7	725.8	860.9	894.7	1804.7	3018.1	3624.8	4042.3	4877.2	5503.3	5462.3
107.5°	728.1	854.0	979.9	1011.4	1813.8	2883.8	3418.8	4001.1	5165.6	6039.1	6049.0
110°	820.8	934.5	1048.2	1076.6	1800.2	2764.7	3247.1	3898.1	5200.0	6176.5	6219.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	911.8	1020.2	1128.6	1155.7	1800.7	2660.8	3090.8	3757.0	5089.5	6088.9	6154.5
115°	1049.2	1149.1	1249.2	1274.1	1817.3	2541.6	2903.7	3545.5	4829.1	5791.8	5882.9
117.5°	1184.8	1275.6	1366.4	1389.1	1851.0	2466.9	2774.8	3354.1	4512.6	5381.5	5482.4
120°	1263.8	1349.3	1434.7	1456.1	1878.5	2441.7	2723.4	3252.6	4311.1	5105.0	5203.1
122.5°	1341.0	1427.3	1513.6	1535.1	1918.1	2428.6	2683.9	3160.4	4113.7	4828.5	4925.3
125°	1459.6	1538.1	1616.8	1636.4	1971.3	2417.8	2640.9	3045.8	3855.5	4462.8	4551.9
127.5°	1555.7	1635.1	1714.4	1734.3	2024.4	2411.4	2604.9	2952.5	3647.7	4169.2	4244.3
130°	1607.3	1692.7	1778.1	1799.5	2063.3	2415.2	2591.1	2900.6	3519.5	3983.7	4053.2
132.5°	1660.5	1745.9	1831.4	1852.7	2094.8	2417.7	2579.1	2856.1	3410.2	3825.8	3888.0
135°	1739.4	1817.2	1895.1	1914.6	2129.2	2415.5	2558.5	2790.5	3254.5	3602.5	3656.1
137.5°	1820.2	1897.2	1974.3	1993.6	2180.7	2430.2	2555.0	2751.2	3143.5	3437.7	3481.6
140°	1887.1	1958.1	2029.1	2046.8	2212.2	2432.7	2543.0	2712.4	3051.3	3305.4	3346.5
142.5°	1938.6	2004.2	2069.9	2086.3	2238.5	2441.5	2543.0	2691.9	2989.5	3212.8	3248.1
145°	2017.6	2074.9	2132.1	2146.4	2272.9	2441.5	2525.9	2647.6	2891.0	3073.6	3100.3
147.5°	2096.6	2152.3	2208.0	2221.9	2323.2	2458.3	2525.9	2621.7	2813.2	2956.9	2979.0
150°	2148.1	2198.5	2248.9	2261.5	2349.6	2467.1	2525.9	2606.8	2768.6	2889.9	2907.8
152.5°	2201.4	2239.5	2277.6	2287.2	2366.7	2472.8	2525.9	2595.0	2733.1	2836.7	2850.3
155°	2280.4	2308.6	2336.8	2343.9	2404.5	2485.4	2525.9	2580.8	2690.8	2773.2	2782.2
157.5°	2338.7	2366.2	2393.6	2400.5	2442.3	2498.0	2525.9	2568.6	2654.1	2718.2	2724.5
160°	2378.2	2399.6	2421.0	2426.3	2459.5	2503.7	2525.9	2562.5	2635.7	2690.7	2694.4
162.5°	2417.7	2433.7	2449.7	2453.7	2477.8	2509.8	2525.9	2556.8	2618.6	2665.0	2668.4
165°	2460.6	2475.1	2489.6	2493.3	2504.1	2518.6	2525.9	2548.0	2592.2	2625.4	2629.1
167.5°	2500.2	2507.1	2513.8	2515.6	2524.8	2537.0	2543.0	2557.5	2586.5	2608.3	2609.8
170°	2525.9	2532.7	2539.6	2541.4	2541.9	2542.7	2543.0	2557.5	2586.5	2608.3	2608.3
172.5°	2539.6	2541.1	2542.7	2543.0	2543.0	2543.0	2543.0	2554.5	2577.4	2594.6	2593.2
175°	2558.5	2558.5	2558.5	2558.5	2553.4	2546.5	2543.0	2550.3	2564.8	2575.7	2575.7
177.5°	2558.5	2558.5	2558.5	2558.5	2554.5	2549.2	2546.5	2552.2	2563.7	2572.2	2570.6
180°	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	2001.5	1995.9	2001.5	1997.7	1999.6	1994.1	1977.4	1971.9	1977.4	1983.0	1983.0
5°	2025.4	2021.8	2025.4	2025.4	2023.6	2019.9	2001.5	1997.7	2001.5	2003.3	1999.6
7.5°	2032.9	2027.3	2032.9	2029.1	2029.1	2025.4	2007.0	2003.3	2005.2	2010.7	2005.2
10°	2032.9	2027.3	2032.9	2031.0	2029.1	2025.4	2007.0	1999.6	1999.6	2005.2	1999.6
12.5°	2023.6	2019.9	2023.6	2019.9	2019.9	2016.3	1997.7	1990.4	1992.2	1994.1	1986.7
15°	2008.8	2003.3	2008.8	2005.2	2007.0	2001.5	1981.1	1973.8	1973.8	1977.4	1964.5
17.5°	1986.7	1979.3	1986.7	1984.9	1983.0	1979.3	1960.8	1953.5	1951.6	1953.5	1944.2
20°	1960.8	1955.3	1960.8	1959.0	1959.0	1951.6	1933.1	1923.9	1923.9	1923.9	1914.7
22.5°	1920.2	1914.7	1920.2	1923.9	1923.9	1922.0	1905.4	1892.6	1888.8	1888.8	1877.8
25°	1874.0	1868.5	1874.0	1874.0	1872.2	1874.0	1868.5	1861.2	1855.6	1850.1	1839.0
27.5°	1829.7	1826.0	1829.7	1826.0	1829.7	1824.2	1822.4	1820.5	1813.1	1807.6	1792.8
30°	1785.5	1781.7	1785.5	1781.7	1778.0	1774.4	1765.1	1761.4	1768.9	1765.1	1741.1
32.5°	1730.0	1726.4	1730.0	1730.0	1726.4	1726.4	1711.6	1706.0	1707.9	1718.9	1696.8
35°	1672.8	1667.3	1672.8	1670.9	1672.8	1667.3	1658.0	1656.2	1648.8	1661.8	1645.2
37.5°	1606.3	1600.8	1606.3	1606.3	1606.3	1610.0	1602.7	1597.1	1586.1	1602.7	1589.7
40°	1538.1	1530.6	1538.1	1536.1	1538.1	1541.7	1538.1	1534.3	1523.3	1536.1	1525.1
42.5°	1460.5	1458.6	1460.5	1462.3	1462.3	1469.7	1475.3	1467.9	1464.2	1454.9	1462.3
45°	1377.4	1373.7	1377.4	1381.0	1383.0	1386.6	1403.2	1403.2	1397.7	1383.0	1394.0
47.5°	1288.7	1279.5	1288.7	1299.8	1299.8	1305.4	1322.0	1334.9	1325.7	1307.3	1312.8
50°	1194.6	1196.4	1194.6	1202.0	1202.0	1222.3	1235.2	1248.2	1257.3	1235.2	1209.3
52.5°	1102.2	1100.4	1102.2	1107.8	1115.2	1124.5	1146.6	1159.5	1174.3	1161.3	1120.8
55°	1009.9	1013.7	1009.9	1011.9	1015.5	1021.0	1054.2	1067.2	1094.9	1078.3	1035.8
57.5°	917.6	912.1	917.6	921.4	923.2	928.7	956.4	980.4	997.1	998.9	947.2
60°	810.5	803.2	810.5	827.2	830.9	834.6	860.4	882.5	897.3	902.8	849.3
62.5°	716.4	703.5	716.4	727.5	734.9	744.1	762.5	795.8	808.7	810.5	734.9
65°	616.7	611.2	616.7	638.8	640.6	651.7	672.1	696.1	723.8	720.1	611.2
67.5°	526.2	526.2	526.2	541.0	552.1	557.6	583.5	594.6	629.6	633.3	509.6
70°	443.2	441.3	443.2	454.2	461.6	474.5	498.5	511.4	539.1	548.4	413.6
72.5°	363.8	361.8	363.8	373.0	380.4	391.4	411.8	426.5	450.5	461.6	321.3
75°	293.6	289.9	293.6	300.9	299.1	313.9	330.5	345.2	367.4	374.8	238.1
77.5°	225.3	225.3	225.3	232.6	232.6	247.4	254.8	273.3	286.2	297.2	175.4
80°	168.0	166.2	168.0	169.9	169.9	177.2	190.1	203.1	214.2	214.2	120.0
82.5°	118.2	114.4	118.2	118.2	118.2	121.9	129.2	133.0	140.3	145.8	75.7
85°	73.9	73.9	73.9	75.7	73.9	77.5	79.4	83.1	83.1	79.4	46.2
87.5°	48.0	46.2	48.0	46.2	46.2	44.3	44.3	44.3	42.5	40.7	25.9
90°	65.2	65.2	65.2	65.2	65.2	87.0	116.0	130.5	112.1	75.5	48.1
92.5°	261.4	209.5	261.4	313.3	326.2	462.4	644.0	734.9	645.2	465.9	331.4
95°	911.0	753.8	911.0	1068.3	1107.6	1454.5	1916.9	2148.1	1814.3	1146.5	645.6
97.5°	2182.8	1883.7	2182.8	2482.0	2556.8	2776.0	3068.3	3214.4	2657.7	1544.3	709.2
100°	3145.0	2788.6	3145.0	3501.4	3590.5	3574.4	3553.0	3542.4	2924.6	1689.1	762.4
102.5°	4091.5	3786.2	4091.5	4396.8	4473.1	4193.8	3821.4	3635.2	3008.6	1755.5	815.6
105°	5298.3	5134.2	5298.3	5462.3	5503.3	4877.2	4042.3	3624.8	3018.1	1804.7	894.7
107.5°	6088.7	6128.4	6088.7	6049.0	6039.1	5165.6	4001.1	3418.8	2883.8	1813.8	1011.4
110°	6390.2	6561.2	6390.2	6219.2	6176.5	5200.0	3898.1	3247.1	2764.7	1800.2	1076.6



TEST NUMBER: P935856

CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6417.1	6679.6	6417.1	6154.5	6088.9	5089.5	3757.0	3090.8	2660.8	1800.7	1155.7
115°	6246.8	6610.9	6246.8	5882.9	5791.8	4829.1	3545.5	2903.7	2541.6	1817.3	1274.1
117.5°	5886.1	6289.8	5886.1	5482.4	5381.5	4512.6	3354.1	2774.8	2466.9	1851.0	1389.1
120°	5595.3	5987.6	5595.3	5203.1	5105.0	4311.1	3252.6	2723.4	2441.7	1878.5	1456.1
122.5°	5312.3	5699.2	5312.3	4925.3	4828.5	4113.7	3160.4	2683.9	2428.6	1918.1	1535.1
125°	4908.3	5264.7	4908.3	4551.9	4462.8	3855.5	3045.8	2640.9	2417.8	1971.3	1636.4
127.5°	4545.1	4845.7	4545.1	4244.3	4169.2	3647.7	2952.5	2604.9	2411.4	2024.4	1734.3
130°	4331.0	4608.8	4331.0	4053.2	3983.7	3519.5	2900.6	2591.1	2415.2	2063.3	1799.5
132.5°	4136.7	4385.5	4136.7	3888.0	3825.8	3410.2	2856.1	2579.1	2417.7	2094.8	1852.7
135°	3870.6	4085.0	3870.6	3656.1	3602.5	3254.5	2790.5	2558.5	2415.5	2129.2	1914.6
137.5°	3657.1	3832.6	3657.1	3481.6	3437.7	3143.5	2751.2	2555.0	2430.2	2180.7	1993.6
140°	3510.6	3674.6	3510.6	3346.5	3305.4	3051.3	2712.4	2543.0	2432.7	2212.2	2046.8
142.5°	3389.2	3530.4	3389.2	3248.1	3212.8	2989.5	2691.9	2543.0	2441.5	2238.5	2086.3
145°	3207.3	3314.1	3207.3	3100.3	3073.6	2891.0	2647.6	2525.9	2441.5	2272.9	2146.4
147.5°	3067.6	3156.0	3067.6	2979.0	2956.9	2813.2	2621.7	2525.9	2458.3	2323.2	2221.9
150°	2979.6	3051.3	2979.6	2907.8	2889.9	2768.6	2606.8	2525.9	2467.1	2349.6	2261.5
152.5°	2904.4	2958.6	2904.4	2850.3	2836.7	2733.1	2595.0	2525.9	2472.8	2366.7	2287.2
155°	2818.0	2853.8	2818.0	2782.2	2773.2	2690.8	2580.8	2525.9	2485.4	2404.5	2343.9
157.5°	2749.7	2774.8	2749.7	2724.5	2718.2	2654.1	2568.6	2525.9	2498.0	2442.3	2400.5
160°	2708.9	2723.4	2708.9	2694.4	2690.7	2635.7	2562.5	2525.9	2503.7	2459.5	2426.3
162.5°	2682.1	2695.9	2682.1	2668.4	2665.0	2618.6	2556.8	2525.9	2509.8	2477.8	2453.7
165°	2643.6	2658.1	2643.6	2629.1	2625.4	2592.2	2548.0	2525.9	2518.6	2504.1	2493.3
167.5°	2615.9	2622.0	2615.9	2609.8	2608.3	2586.5	2557.5	2543.0	2537.0	2524.8	2515.6
170°	2608.3	2608.3	2608.3	2608.3	2608.3	2586.5	2557.5	2543.0	2542.7	2541.9	2541.4
172.5°	2587.9	2582.6	2587.9	2593.2	2594.6	2577.4	2554.5	2543.0	2543.0	2543.0	2543.0
175°	2575.7	2575.7	2575.7	2575.7	2575.7	2564.8	2550.3	2543.0	2546.5	2553.4	2558.5
177.5°	2564.6	2558.5	2564.6	2570.6	2572.2	2563.7	2552.2	2546.5	2549.2	2554.5	2558.5
180°	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5



TEST NUMBER: P935856

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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1979.3	1968.2	1968.2	1949.7	1942.4	1936.8	1927.6	1899.9	1892.6	1885.1	1896.2
5°	1995.9	1975.6	1960.8	1927.6	1899.9	1888.8	1853.7	1787.3	1743.0	1709.8	1691.3
7.5°	1999.6	1973.8	1946.1	1894.4	1827.9	1798.3	1691.3	1569.4	1536.1	1506.7	1488.1
10°	1995.9	1966.3	1927.6	1850.1	1693.1	1641.4	1534.3	1454.9	1434.6	1429.1	1434.6
12.5°	1983.0	1955.3	1901.7	1772.5	1552.8	1517.7	1454.9	1408.8	1405.1	1414.4	1464.2
15°	1960.8	1935.0	1872.2	1669.1	1475.3	1449.4	1405.1	1388.5	1408.8	1473.4	1622.9
17.5°	1938.7	1909.2	1831.6	1567.6	1416.2	1397.7	1366.3	1399.6	1514.0	1600.8	1650.7
20°	1909.2	1874.0	1785.5	1493.7	1373.7	1357.1	1342.3	1491.9	1578.6	1610.0	1637.7
22.5°	1874.0	1837.1	1722.7	1442.0	1329.4	1316.4	1325.7	1543.6	1578.6	1600.8	1624.8
25°	1827.9	1796.5	1648.8	1401.4	1294.3	1279.5	1314.6	1538.1	1558.3	1563.8	1611.8
27.5°	1785.5	1744.8	1571.3	1364.4	1251.8	1246.3	1323.9	1514.0	1528.8	1534.3	1586.1
30°	1733.7	1672.8	1484.5	1325.7	1207.5	1205.7	1325.7	1484.5	1480.8	1495.6	1547.2
32.5°	1680.2	1565.7	1386.6	1277.7	1165.0	1163.2	1312.8	1440.1	1436.5	1456.7	1495.6
35°	1630.4	1482.6	1253.7	1222.3	1111.5	1113.3	1281.4	1388.5	1390.3	1408.8	1432.8
37.5°	1578.6	1410.6	1107.8	1161.3	1059.8	1059.8	1238.9	1340.5	1336.8	1342.3	1375.5
40°	1517.7	1298.0	978.5	1082.0	1011.9	1006.3	1187.2	1288.7	1275.9	1274.0	1320.1
42.5°	1453.1	1174.3	882.5	976.7	956.4	949.0	1124.5	1225.9	1202.0	1207.5	1266.6
45°	1383.0	1141.1	808.7	825.3	899.2	893.7	1056.1	1154.0	1137.4	1152.2	1213.1
47.5°	1312.8	1074.6	784.7	685.0	838.2	836.4	980.4	1083.8	1074.6	1089.4	1154.0
50°	1216.8	1000.7	782.9	587.1	769.9	777.3	890.0	1015.5	1015.5	1028.5	1096.7
52.5°	1093.1	910.3	710.8	531.7	690.6	712.7	810.5	956.4	960.1	973.0	1034.0
55°	980.4	816.1	659.2	489.3	596.4	644.4	733.0	895.5	902.8	915.8	971.2
57.5°	877.0	679.5	648.1	439.4	509.6	555.8	664.7	836.4	840.1	851.2	904.8
60°	766.3	491.2	594.6	385.9	433.9	468.9	601.9	766.3	779.1	786.6	832.7
62.5°	640.6	356.3	539.1	349.0	397.0	404.3	550.2	699.7	716.4	722.0	749.7
65°	456.1	299.1	457.9	317.6	358.2	360.0	494.8	631.5	646.2	655.4	675.8
67.5°	308.3	243.7	349.0	288.1	328.6	330.5	441.3	552.1	572.4	579.8	592.6
70°	214.2	162.5	258.5	256.7	295.4	299.1	384.1	480.0	498.5	504.1	511.4
72.5°	156.9	131.0	214.2	230.8	260.4	264.0	325.0	398.8	417.3	422.8	426.5
75°	120.0	138.5	173.5	201.3	221.5	223.4	265.9	325.0	337.9	341.6	343.4
77.5°	96.0	129.2	127.4	162.5	181.0	177.2	208.7	251.1	262.2	262.2	262.2
80°	72.0	101.6	96.0	116.4	133.0	129.2	149.6	179.1	182.8	186.5	184.6
82.5°	53.5	64.6	64.6	73.9	88.6	85.0	99.7	116.4	116.4	116.4	120.0
85°	33.2	36.9	29.5	38.8	49.8	48.0	55.4	62.8	64.6	64.6	60.9
87.5°	20.3	16.6	9.3	14.8	22.1	22.1	25.9	27.7	25.9	25.9	25.9
90°	44.7	30.9	17.2	30.9	44.7	48.1	75.5	112.1	130.5	116.0	87.0
92.5°	302.2	185.4	68.6	185.4	302.2	331.4	465.9	645.2	734.9	644.0	462.4
95°	592.2	378.5	164.8	378.5	592.2	645.6	1146.5	1814.3	2148.1	1916.9	1454.5
97.5°	662.0	473.5	285.0	473.5	662.0	709.2	1544.3	2657.7	3214.4	3068.3	2776.0
100°	719.7	548.7	377.7	548.7	719.7	762.4	1689.1	2924.6	3542.4	3553.0	3574.4
102.5°	775.7	616.2	456.7	616.2	775.7	815.6	1755.5	3008.6	3635.2	3821.4	4193.8
105°	860.9	725.8	590.7	725.8	860.9	894.7	1804.7	3018.1	3624.8	4042.3	4877.2
107.5°	979.9	854.0	728.1	854.0	979.9	1011.4	1813.8	2883.8	3418.8	4001.1	5165.6
110°	1048.2	934.5	820.8	934.5	1048.2	1076.6	1800.2	2764.7	3247.1	3898.1	5200.0



TEST NUMBER: P935856

CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1128.6	1020.2	911.8	1020.2	1128.6	1155.7	1800.7	2660.8	3090.8	3757.0	5089.5
115°	1249.2	1149.1	1049.2	1149.1	1249.2	1274.1	1817.3	2541.6	2903.7	3545.5	4829.1
117.5°	1366.4	1275.6	1184.8	1275.6	1366.4	1389.1	1851.0	2466.9	2774.8	3354.1	4512.6
120°	1434.7	1349.3	1263.8	1349.3	1434.7	1456.1	1878.5	2441.7	2723.4	3252.6	4311.1
122.5°	1513.6	1427.3	1341.0	1427.3	1513.6	1535.1	1918.1	2428.6	2683.9	3160.4	4113.7
125°	1616.8	1538.1	1459.6	1538.1	1616.8	1636.4	1971.3	2417.8	2640.9	3045.8	3855.5
127.5°	1714.4	1635.1	1555.7	1635.1	1714.4	1734.3	2024.4	2411.4	2604.9	2952.5	3647.7
130°	1778.1	1692.7	1607.3	1692.7	1778.1	1799.5	2063.3	2415.2	2591.1	2900.6	3519.5
132.5°	1831.4	1745.9	1660.5	1745.9	1831.4	1852.7	2094.8	2417.7	2579.1	2856.1	3410.2
135°	1895.1	1817.2	1739.4	1817.2	1895.1	1914.6	2129.2	2415.5	2558.5	2790.5	3254.5
137.5°	1974.3	1897.2	1820.2	1897.2	1974.3	1993.6	2180.7	2430.2	2555.0	2751.2	3143.5
140°	2029.1	1958.1	1887.1	1958.1	2029.1	2046.8	2212.2	2432.7	2543.0	2712.4	3051.3
142.5°	2069.9	2004.2	1938.6	2004.2	2069.9	2086.3	2238.5	2441.5	2543.0	2691.9	2989.5
145°	2132.1	2074.9	2017.6	2074.9	2132.1	2146.4	2272.9	2441.5	2525.9	2647.6	2891.0
147.5°	2208.0	2152.3	2096.6	2152.3	2208.0	2221.9	2323.2	2458.3	2525.9	2621.7	2813.2
150°	2248.9	2198.5	2148.1	2198.5	2248.9	2261.5	2349.6	2467.1	2525.9	2606.8	2768.6
152.5°	2277.6	2239.5	2201.4	2239.5	2277.6	2287.2	2366.7	2472.8	2525.9	2595.0	2733.1
155°	2336.8	2308.6	2280.4	2308.6	2336.8	2343.9	2404.5	2485.4	2525.9	2580.8	2690.8
157.5°	2393.6	2366.2	2338.7	2366.2	2393.6	2400.5	2442.3	2498.0	2525.9	2568.6	2654.1
160°	2421.0	2399.6	2378.2	2399.6	2421.0	2426.3	2459.5	2503.7	2525.9	2562.5	2635.7
162.5°	2449.7	2433.7	2417.7	2433.7	2449.7	2453.7	2477.8	2509.8	2525.9	2556.8	2618.6
165°	2489.6	2475.1	2460.6	2475.1	2489.6	2493.3	2504.1	2518.6	2525.9	2548.0	2592.2
167.5°	2513.8	2507.1	2500.2	2507.1	2513.8	2515.6	2524.8	2537.0	2543.0	2557.5	2586.5
170°	2539.6	2532.7	2525.9	2532.7	2539.6	2541.4	2541.9	2542.7	2543.0	2557.5	2586.5
172.5°	2542.7	2541.1	2539.6	2541.1	2542.7	2543.0	2543.0	2543.0	2543.0	2554.5	2577.4
175°	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2553.4	2546.5	2543.0	2550.3	2564.8
177.5°	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2554.5	2549.2	2546.5	2552.2	2563.7
180°	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5



TEST NUMBER: P935856
 CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1883.3	1877.8	1885.1	1864.8	1885.1	1877.8	1883.3	1896.2	1885.1	1892.6	1899.9
5°	1652.5	1643.2	1613.8	1589.7	1613.8	1643.2	1652.5	1691.3	1709.8	1743.0	1787.3
7.5°	1477.1	1469.7	1462.3	1447.6	1462.3	1469.7	1477.1	1488.1	1506.7	1536.1	1569.4
10°	1438.3	1440.1	1451.2	1449.4	1451.2	1440.1	1438.3	1434.6	1429.1	1434.6	1454.9
12.5°	1538.1	1554.7	1615.6	1611.8	1615.6	1554.7	1538.1	1464.2	1414.4	1405.1	1408.8
15°	1652.5	1658.0	1670.9	1672.8	1670.9	1658.0	1652.5	1622.9	1473.4	1408.8	1388.5
17.5°	1663.6	1665.4	1674.6	1674.6	1674.6	1665.4	1663.6	1650.7	1600.8	1514.0	1399.6
20°	1654.3	1658.0	1676.5	1680.2	1676.5	1658.0	1654.3	1637.7	1610.0	1578.6	1491.9
22.5°	1650.7	1658.0	1672.8	1670.9	1672.8	1658.0	1650.7	1624.8	1600.8	1578.6	1543.6
25°	1632.2	1632.2	1634.0	1635.9	1634.0	1632.2	1632.2	1611.8	1563.8	1558.3	1538.1
27.5°	1593.4	1597.1	1608.2	1606.3	1608.2	1597.1	1593.4	1586.1	1534.3	1528.8	1514.0
30°	1558.3	1554.7	1545.4	1538.1	1545.4	1554.7	1558.3	1547.2	1495.6	1480.8	1484.5
32.5°	1499.2	1490.0	1480.8	1475.3	1480.8	1490.0	1499.2	1495.6	1456.7	1436.5	1440.1
35°	1429.1	1431.0	1429.1	1423.5	1429.1	1431.0	1429.1	1432.8	1408.8	1390.3	1388.5
37.5°	1379.2	1383.0	1381.0	1373.7	1381.0	1383.0	1379.2	1375.5	1342.3	1336.8	1340.5
40°	1327.5	1329.4	1327.5	1322.0	1327.5	1329.4	1327.5	1320.1	1274.0	1275.9	1288.7
42.5°	1277.7	1275.9	1270.3	1266.6	1270.3	1275.9	1277.7	1266.6	1207.5	1202.0	1225.9
45°	1220.4	1222.3	1211.2	1205.7	1211.2	1222.3	1220.4	1213.1	1152.2	1137.4	1154.0
47.5°	1163.2	1163.2	1154.0	1148.4	1154.0	1163.2	1163.2	1154.0	1089.4	1074.6	1083.8
50°	1102.2	1100.4	1087.5	1085.6	1087.5	1100.4	1102.2	1096.7	1028.5	1015.5	1015.5
52.5°	1032.1	1032.1	1034.0	1037.6	1034.0	1032.1	1032.1	1034.0	973.0	960.1	956.4
55°	971.2	973.0	986.0	989.6	986.0	973.0	971.2	971.2	915.8	902.8	895.5
57.5°	908.4	908.4	917.6	917.6	917.6	908.4	908.4	904.8	851.2	840.1	836.4
60°	836.4	840.1	847.5	845.7	847.5	840.1	836.4	832.7	786.6	779.1	766.3
62.5°	760.7	764.4	766.3	762.5	766.3	764.4	760.7	749.7	722.0	716.4	699.7
65°	681.3	685.0	686.8	683.1	686.8	685.0	681.3	675.8	655.4	646.2	631.5
67.5°	600.1	598.2	596.4	603.8	596.4	598.2	600.1	592.6	579.8	572.4	552.1
70°	516.9	516.9	515.1	518.9	515.1	516.9	516.9	511.4	504.1	498.5	480.0
72.5°	428.4	426.5	433.9	428.4	433.9	426.5	428.4	426.5	422.8	417.3	398.8
75°	341.6	345.2	341.6	347.1	341.6	345.2	341.6	343.4	341.6	337.9	325.0
77.5°	260.4	264.0	260.4	260.4	260.4	264.0	260.4	262.2	262.2	262.2	251.1
80°	184.6	182.8	182.8	181.0	182.8	182.8	184.6	184.6	186.5	182.8	179.1
82.5°	118.2	116.4	116.4	120.0	116.4	116.4	118.2	120.0	116.4	116.4	116.4
85°	64.6	66.4	62.8	62.8	62.8	66.4	64.6	60.9	64.6	64.6	62.8
87.5°	24.0	22.1	22.1	22.1	22.1	22.1	24.0	25.9	25.9	25.9	27.7
90°	65.2	65.2	65.2	65.2	65.2	65.2	65.2	87.0	116.0	130.5	112.1
92.5°	326.2	313.3	261.4	209.5	261.4	313.3	326.2	462.4	644.0	734.9	645.2
95°	1107.6	1068.3	911.0	753.8	911.0	1068.3	1107.6	1454.5	1916.9	2148.1	1814.3
97.5°	2556.8	2482.0	2182.8	1883.7	2182.8	2482.0	2556.8	2776.0	3068.3	3214.4	2657.7
100°	3590.5	3501.4	3145.0	2788.6	3145.0	3501.4	3590.5	3574.4	3553.0	3542.4	2924.6
102.5°	4473.1	4396.8	4091.5	3786.2	4091.5	4396.8	4473.1	4193.8	3821.4	3635.2	3008.6
105°	5503.3	5462.3	5298.3	5134.2	5298.3	5462.3	5503.3	4877.2	4042.3	3624.8	3018.1
107.5°	6039.1	6049.0	6088.7	6128.4	6088.7	6049.0	6039.1	5165.6	4001.1	3418.8	2883.8
110°	6176.5	6219.2	6390.2	6561.2	6390.2	6219.2	6176.5	5200.0	3898.1	3247.1	2764.7



TEST NUMBER: P935856

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6088.9	6154.5	6417.1	6679.6	6417.1	6154.5	6088.9	5089.5	3757.0	3090.8	2660.8
115°	5791.8	5882.9	6246.8	6610.9	6246.8	5882.9	5791.8	4829.1	3545.5	2903.7	2541.6
117.5°	5381.5	5482.4	5886.1	6289.8	5886.1	5482.4	5381.5	4512.6	3354.1	2774.8	2466.9
120°	5105.0	5203.1	5595.3	5987.6	5595.3	5203.1	5105.0	4311.1	3252.6	2723.4	2441.7
122.5°	4828.5	4925.3	5312.3	5699.2	5312.3	4925.3	4828.5	4113.7	3160.4	2683.9	2428.6
125°	4462.8	4551.9	4908.3	5264.7	4908.3	4551.9	4462.8	3855.5	3045.8	2640.9	2417.8
127.5°	4169.2	4244.3	4545.1	4845.7	4545.1	4244.3	4169.2	3647.7	2952.5	2604.9	2411.4
130°	3983.7	4053.2	4331.0	4608.8	4331.0	4053.2	3983.7	3519.5	2900.6	2591.1	2415.2
132.5°	3825.8	3888.0	4136.7	4385.5	4136.7	3888.0	3825.8	3410.2	2856.1	2579.1	2417.7
135°	3602.5	3656.1	3870.6	4085.0	3870.6	3656.1	3602.5	3254.5	2790.5	2558.5	2415.5
137.5°	3437.7	3481.6	3657.1	3832.6	3657.1	3481.6	3437.7	3143.5	2751.2	2555.0	2430.2
140°	3305.4	3346.5	3510.6	3674.6	3510.6	3346.5	3305.4	3051.3	2712.4	2543.0	2432.7
142.5°	3212.8	3248.1	3389.2	3530.4	3389.2	3248.1	3212.8	2989.5	2691.9	2543.0	2441.5
145°	3073.6	3100.3	3207.3	3314.1	3207.3	3100.3	3073.6	2891.0	2647.6	2525.9	2441.5
147.5°	2956.9	2979.0	3067.6	3156.0	3067.6	2979.0	2956.9	2813.2	2621.7	2525.9	2458.3
150°	2889.9	2907.8	2979.6	3051.3	2979.6	2907.8	2889.9	2768.6	2606.8	2525.9	2467.1
152.5°	2836.7	2850.3	2904.4	2958.6	2904.4	2850.3	2836.7	2733.1	2595.0	2525.9	2472.8
155°	2773.2	2782.2	2818.0	2853.8	2818.0	2782.2	2773.2	2690.8	2580.8	2525.9	2485.4
157.5°	2718.2	2724.5	2749.7	2774.8	2749.7	2724.5	2718.2	2654.1	2568.6	2525.9	2498.0
160°	2690.7	2694.4	2708.9	2723.4	2708.9	2694.4	2690.7	2635.7	2562.5	2525.9	2503.7
162.5°	2665.0	2668.4	2682.1	2695.9	2682.1	2668.4	2665.0	2618.6	2556.8	2525.9	2509.8
165°	2625.4	2629.1	2643.6	2658.1	2643.6	2629.1	2625.4	2592.2	2548.0	2525.9	2518.6
167.5°	2608.3	2609.8	2615.9	2622.0	2615.9	2609.8	2608.3	2586.5	2557.5	2543.0	2537.0
170°	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2608.3	2586.5	2557.5	2543.0	2542.7
172.5°	2594.6	2593.2	2587.9	2582.6	2587.9	2593.2	2594.6	2577.4	2554.5	2543.0	2543.0
175°	2575.7	2575.7	2575.7	2575.7	2575.7	2575.7	2575.7	2564.8	2550.3	2543.0	2546.5
177.5°	2572.2	2570.6	2564.6	2558.5	2564.6	2570.6	2572.2	2563.7	2552.2	2546.5	2549.2
180°	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5	2558.5



TEST NUMBER: P935856

CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1951.6	1951.6	1951.6	1951.6	1951.6
2.5°	1927.6	1936.8	1942.4	1949.7	1968.2
5°	1853.7	1888.8	1899.9	1927.6	1960.8
7.5°	1691.3	1798.3	1827.9	1894.4	1946.1
10°	1534.3	1641.4	1693.1	1850.1	1927.6
12.5°	1454.9	1517.7	1552.8	1772.5	1901.7
15°	1405.1	1449.4	1475.3	1669.1	1872.2
17.5°	1366.3	1397.7	1416.2	1567.6	1831.6
20°	1342.3	1357.1	1373.7	1493.7	1785.5
22.5°	1325.7	1316.4	1329.4	1442.0	1722.7
25°	1314.6	1279.5	1294.3	1401.4	1648.8
27.5°	1323.9	1246.3	1251.8	1364.4	1571.3
30°	1325.7	1205.7	1207.5	1325.7	1484.5
32.5°	1312.8	1163.2	1165.0	1277.7	1386.6
35°	1281.4	1113.3	1111.5	1222.3	1253.7
37.5°	1238.9	1059.8	1059.8	1161.3	1107.8
40°	1187.2	1006.3	1011.9	1082.0	978.5
42.5°	1124.5	949.0	956.4	976.7	882.5
45°	1056.1	893.7	899.2	825.3	808.7
47.5°	980.4	836.4	838.2	685.0	784.7
50°	890.0	777.3	769.9	587.1	782.9
52.5°	810.5	712.7	690.6	531.7	710.8
55°	733.0	644.4	596.4	489.3	659.2
57.5°	664.7	555.8	509.6	439.4	648.1
60°	601.9	468.9	433.9	385.9	594.6
62.5°	550.2	404.3	397.0	349.0	539.1
65°	494.8	360.0	358.2	317.6	457.9
67.5°	441.3	330.5	328.6	288.1	349.0
70°	384.1	299.1	295.4	256.7	258.5
72.5°	325.0	264.0	260.4	230.8	214.2
75°	265.9	223.4	221.5	201.3	173.5
77.5°	208.7	177.2	181.0	162.5	127.4
80°	149.6	129.2	133.0	116.4	96.0
82.5°	99.7	85.0	88.6	73.9	64.6
85°	55.4	48.0	49.8	38.8	29.5
87.5°	25.9	22.1	22.1	14.8	9.3
90°	75.5	48.1	44.7	30.9	17.2
92.5°	465.9	331.4	302.2	185.4	68.6
95°	1146.5	645.6	592.2	378.5	164.8
97.5°	1544.3	709.2	662.0	473.5	285.0
100°	1689.1	762.4	719.7	548.7	377.7
102.5°	1755.5	815.6	775.7	616.2	456.7
105°	1804.7	894.7	860.9	725.8	590.7
107.5°	1813.8	1011.4	979.9	854.0	728.1
110°	1800.2	1076.6	1048.2	934.5	820.8



TEST NUMBER: P935856

CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1800.7	1155.7	1128.6	1020.2	911.8
115°	1817.3	1274.1	1249.2	1149.1	1049.2
117.5°	1851.0	1389.1	1366.4	1275.6	1184.8
120°	1878.5	1456.1	1434.7	1349.3	1263.8
122.5°	1918.1	1535.1	1513.6	1427.3	1341.0
125°	1971.3	1636.4	1616.8	1538.1	1459.6
127.5°	2024.4	1734.3	1714.4	1635.1	1555.7
130°	2063.3	1799.5	1778.1	1692.7	1607.3
132.5°	2094.8	1852.7	1831.4	1745.9	1660.5
135°	2129.2	1914.6	1895.1	1817.2	1739.4
137.5°	2180.7	1993.6	1974.3	1897.2	1820.2
140°	2212.2	2046.8	2029.1	1958.1	1887.1
142.5°	2238.5	2086.3	2069.9	2004.2	1938.6
145°	2272.9	2146.4	2132.1	2074.9	2017.6
147.5°	2323.2	2221.9	2208.0	2152.3	2096.6
150°	2349.6	2261.5	2248.9	2198.5	2148.1
152.5°	2366.7	2287.2	2277.6	2239.5	2201.4
155°	2404.5	2343.9	2336.8	2308.6	2280.4
157.5°	2442.3	2400.5	2393.6	2366.2	2338.7
160°	2459.5	2426.3	2421.0	2399.6	2378.2
162.5°	2477.8	2453.7	2449.7	2433.7	2417.7
165°	2504.1	2493.3	2489.6	2475.1	2460.6
167.5°	2524.8	2515.6	2513.8	2507.1	2500.2
170°	2541.9	2541.4	2539.6	2532.7	2525.9
172.5°	2543.0	2543.0	2542.7	2541.1	2539.6
175°	2553.4	2558.5	2558.5	2558.5	2558.5
177.5°	2554.5	2558.5	2558.5	2558.5	2558.5
180°	2558.5	2558.5	2558.5	2558.5	2558.5



TEST NUMBER: P935856
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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	7.85	8.51	9.01	9.66	11.26	10.70	11.36	11.86	12.51	14.11
	3H	8.31	8.90	9.47	10.06	11.68	12.04	12.63	13.20	13.78	15.40
	4H	8.49	9.06	9.66	10.21	11.83	12.48	13.04	13.65	14.19	15.82
	6H	8.60	9.12	9.78	10.27	11.91	12.76	13.28	13.94	14.43	16.07
	8H	8.60	9.09	9.78	10.26	11.89	12.83	13.32	14.01	14.49	16.12
	12H	8.56	9.03	9.75	10.19	11.84	12.86	13.33	14.05	14.49	16.14
4H	2H	8.86	9.43	10.04	10.58	12.20	11.08	11.65	12.26	12.80	14.43
	3H	9.87	10.34	11.05	11.52	13.16	12.58	13.05	13.76	14.22	15.86
	4H	10.14	10.57	11.32	11.74	13.39	13.10	13.53	14.29	14.70	16.36
	6H	10.25	10.62	11.44	11.81	13.45	13.46	13.83	14.65	15.02	16.66
	8H	10.25	10.60	11.44	11.78	13.44	13.57	13.91	14.75	15.09	16.75
	12H	10.21	10.52	11.41	11.71	13.38	13.62	13.93	14.82	15.12	16.79
8H	4H	10.58	10.92	11.77	12.10	13.77	13.21	13.55	14.40	14.73	16.40
	6H	10.83	11.12	12.04	12.34	14.00	13.64	13.93	14.85	15.15	16.81
	8H	10.87	11.12	12.09	12.32	14.00	13.80	14.04	15.01	15.24	16.92
	12H	10.85	11.07	12.06	12.26	13.97	13.89	14.11	15.11	15.30	17.01
12H	4H	10.58	10.89	11.78	12.08	13.75	13.16	13.48	14.37	14.67	16.33
	6H	10.89	11.14	12.11	12.34	14.02	13.64	13.89	14.85	15.08	16.76
	8H	10.95	11.17	12.17	12.36	14.07	13.79	14.01	15.01	15.21	16.92