

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: P935853

Luminaire Tested: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935853
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-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

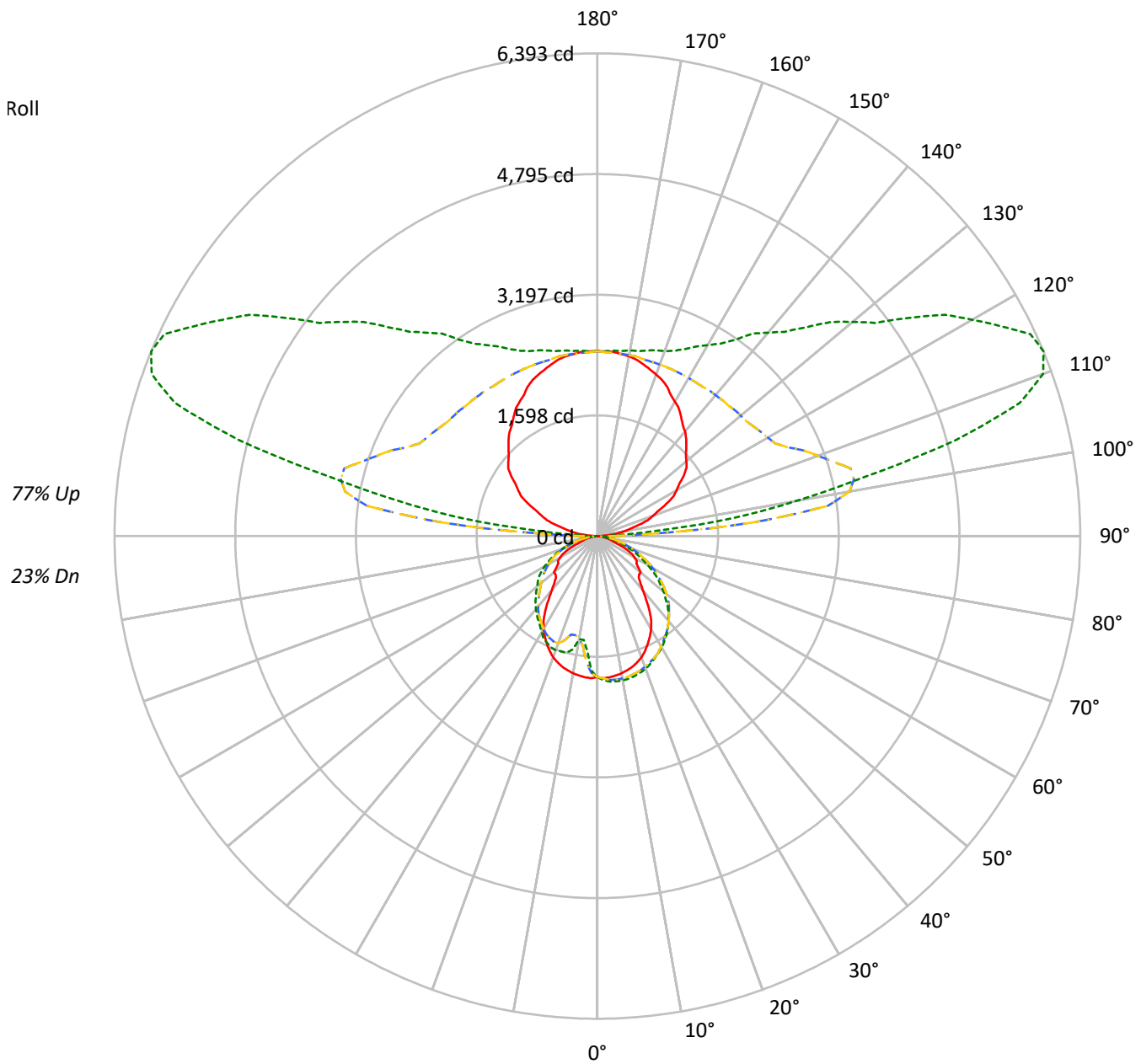
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 20726.1 lumens
Efficiency: N/A
Efficacy: 124.3 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	50	30	10	0
RCR																					
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	27	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	23	23	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	19	19	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	16	16	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	14	14	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	12	12	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	11	11	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	10	10	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	9	9	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	8	8	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5777	5777	5777	5777
5°	5823	5832	5823	4586
10°	5786	5745	5786	4107
15°	5725	5620	5725	4693
20°	5608	5473	5608	4703
25°	5365	5258	5365	4603
30°	5050	5079	5050	4384
35°	4504	4853	4504	4144
40°	3755	4587	3755	3962
45°	3358	4276	3358	3753
50°	3570	3905	3570	3543
55°	3362	3506	3362	3422
60°	3470	2977	3470	3135
65°	3152	2461	3152	2751
70°	2187	1962	2187	2306
75°	1925	1450	1925	1736
80°	1563	959	1563	1044
85°	917	508	917	432

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 6087 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	168.6	0.8
10°-20°	478.7	2.3
20°-30°	740.0	3.6
30°-40°	883.4	4.3
40°-50°	888.6	4.3
50°-60°	773.2	3.7
60°-70°	548.2	2.6
70°-80°	290.0	1.4
80°-90°	81.6	0.4
90°-100°	1193.6	5.8
100°-110°	3138.1	15.1
110°-120°	3253.8	15.7
120°-130°	2610.0	12.6
130°-140°	2047.9	9.9
140°-150°	1571.8	7.6
150°-160°	1132.0	5.5
160°-170°	692.6	3.3
170°-180°	234.0	1.1
0°-30°	1387.3	6.7
0°-40°	2270.7	11.0
0°-60°	3932.5	19.0
0°-90°	4852.3	23.4
90°-120°	7585.5	36.6
90°-150°	13815.2	66.7
90°-180°	15874.0	76.6
0°-180°	20726.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1868	1868	1868	1868	1868	
5°	1877	1935	1877	1522	1877	178
15°	1792	1917	1792	1601	1792	504
25°	1578	1788	1578	1566	1578	725
35°	1200	1596	1200	1362	1200	742
45°	774	1315	774	1154	774	620
55°	631	970	631	947	631	580
65°	438	585	438	654	438	419
75°	166	278	166	332	166	175
85°	28	71	28	60	28	38
90°	16	62	16	62	16	15
95°	158	721	158	721	158	175
105°	565	4914	565	4914	565	599
115°	1004	6327	1004	6327	1004	992
125°	1397	5039	1397	5039	1397	1240
135°	1665	3910	1665	3910	1665	1288
145°	1931	3172	1931	3172	1931	1210
155°	2182	2731	2182	2731	2182	1003
165°	2355	2544	2355	2544	2355	665
175°	2449	2465	2449	2465	2449	232
180°	2449	2449	2449	2449	2449	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1883.7	1883.7	1894.3	1897.8	1897.8	1892.6	1887.3	1892.6	1908.5	1913.7	1912.0
5°	1876.7	1890.8	1910.2	1913.7	1917.3	1915.6	1912.0	1915.6	1933.2	1936.7	1938.5
7.5°	1862.5	1889.0	1913.7	1919.1	1924.4	1919.1	1917.3	1920.8	1938.5	1942.0	1942.0
10°	1844.9	1881.9	1910.2	1913.7	1919.1	1913.7	1913.7	1920.8	1938.5	1942.0	1943.9
12.5°	1820.1	1871.4	1897.8	1901.4	1908.5	1906.7	1904.9	1912.0	1929.7	1933.2	1933.2
15°	1791.8	1851.9	1876.7	1880.2	1892.6	1889.0	1889.0	1896.1	1915.6	1920.8	1919.1
17.5°	1753.0	1827.2	1855.5	1860.8	1869.6	1867.8	1869.6	1876.7	1894.3	1897.8	1899.7
20°	1708.8	1793.6	1827.2	1832.5	1841.4	1841.4	1841.4	1850.1	1867.8	1874.9	1874.9
22.5°	1648.7	1758.3	1793.6	1797.2	1807.7	1807.7	1811.3	1823.6	1839.5	1841.4	1841.4
25°	1578.0	1719.4	1749.4	1760.0	1770.7	1775.9	1781.3	1788.3	1793.6	1791.8	1793.6
27.5°	1503.8	1669.9	1708.8	1715.8	1730.0	1735.3	1742.4	1744.1	1745.9	1751.2	1747.6
30°	1420.7	1601.0	1659.3	1666.4	1689.3	1692.9	1685.8	1689.3	1698.2	1701.7	1705.2
32.5°	1327.1	1498.5	1608.1	1624.0	1645.1	1634.6	1632.8	1638.1	1652.3	1652.3	1655.8
35°	1199.8	1419.0	1560.4	1574.5	1590.4	1578.0	1585.1	1586.8	1595.7	1601.0	1599.2
37.5°	1060.3	1350.0	1510.9	1521.5	1533.9	1518.0	1528.5	1533.9	1540.9	1537.4	1537.4
40°	936.5	1242.3	1452.5	1459.6	1470.2	1457.9	1468.4	1472.0	1475.5	1472.0	1470.2
42.5°	844.7	1123.9	1390.7	1399.6	1392.5	1401.3	1404.8	1412.0	1406.6	1399.6	1399.6
45°	774.0	1092.1	1323.6	1334.1	1323.6	1337.7	1343.0	1343.0	1327.1	1323.6	1321.8
47.5°	751.0	1028.5	1256.4	1256.4	1251.1	1268.8	1277.6	1265.3	1249.4	1244.0	1244.0
50°	749.3	957.8	1164.5	1157.4	1182.2	1203.4	1194.6	1182.2	1169.8	1150.4	1150.4
52.5°	680.3	871.2	1046.1	1072.7	1111.5	1123.9	1109.7	1097.3	1076.2	1067.3	1060.3
55°	630.9	781.1	938.3	991.3	1032.0	1047.9	1021.4	1009.0	977.2	971.9	968.4
57.5°	620.3	650.3	839.4	906.5	956.0	954.3	938.3	915.4	888.8	883.6	881.8
60°	569.1	470.1	733.4	812.9	864.1	858.8	844.7	823.5	798.7	795.2	791.7
62.5°	516.0	341.0	613.1	703.3	775.7	774.0	761.7	729.8	712.1	703.3	696.2
65°	438.3	286.2	436.5	584.9	689.2	692.7	666.2	643.3	623.8	613.1	611.4
67.5°	334.0	233.3	295.1	487.7	606.1	602.6	569.1	558.4	533.7	528.4	517.8
70°	247.4	155.5	205.0	395.9	524.9	516.0	489.5	477.1	454.2	441.8	434.7
72.5°	205.0	125.4	150.2	307.5	441.8	431.2	408.2	394.1	374.6	364.1	356.9
75°	166.1	132.5	114.9	227.9	358.7	351.7	330.4	316.3	300.4	286.2	288.0
77.5°	121.9	123.7	91.9	167.8	284.5	273.9	261.6	243.9	236.8	222.6	222.6
80°	91.9	97.2	68.9	114.9	205.0	205.0	194.4	182.0	169.6	162.6	162.6
82.5°	61.8	61.8	51.2	72.5	139.6	134.3	127.3	123.7	116.6	113.1	113.1
85°	28.3	35.3	31.8	44.2	76.0	79.5	79.5	76.0	74.2	70.7	72.5
87.5°	8.9	15.9	19.4	24.8	38.9	40.7	42.4	42.4	42.4	44.2	44.2
90°	16.4	29.6	42.8	46.0	72.3	107.3	124.9	111.0	83.3	62.4	62.4
92.5°	65.7	177.4	289.2	317.2	445.9	617.5	703.3	616.4	442.6	312.2	299.9
95°	157.7	362.2	566.8	617.9	1097.3	1736.4	2055.9	1834.6	1392.0	1060.0	1022.4
97.5°	272.8	453.2	633.6	678.8	1478.0	2543.6	3076.4	2936.6	2656.9	2447.0	2375.5
100°	361.5	525.1	688.8	729.7	1616.6	2799.1	3390.3	3400.5	3421.0	3436.4	3351.1
102.5°	437.1	589.8	742.4	780.6	1680.1	2879.4	3479.1	3657.3	4013.7	4281.1	4208.0
105°	565.4	694.6	823.9	856.3	1727.3	2888.6	3469.2	3868.7	4667.8	5267.1	5227.8
107.5°	696.8	817.3	937.8	968.0	1736.0	2760.0	3272.0	3829.3	4943.9	5779.8	5789.3
110°	785.6	894.4	1003.2	1030.4	1722.9	2646.1	3107.7	3730.8	4976.8	5911.3	5952.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	872.7	976.4	1080.1	1106.0	1723.4	2546.5	2958.1	3595.8	4871.1	5827.5	5890.3
115°	1004.2	1099.8	1195.5	1219.4	1739.3	2432.5	2779.0	3393.3	4621.8	5543.2	5630.3
117.5°	1134.0	1220.8	1307.8	1329.5	1771.5	2361.0	2655.7	3210.1	4318.9	5150.4	5247.1
120°	1209.5	1291.4	1373.1	1393.6	1797.9	2336.9	2606.4	3113.0	4126.0	4885.8	4979.7
122.5°	1283.5	1366.0	1448.6	1469.2	1835.7	2324.3	2568.7	3024.8	3937.1	4621.3	4713.8
125°	1396.9	1472.1	1547.4	1566.2	1886.7	2314.0	2527.6	2915.1	3690.0	4271.2	4356.5
127.5°	1488.9	1564.9	1640.8	1659.8	1937.5	2307.9	2493.1	2825.8	3491.2	3990.2	4062.1
130°	1538.3	1620.0	1701.8	1722.3	1974.8	2311.5	2479.9	2776.0	3368.5	3812.7	3879.2
132.5°	1589.2	1671.0	1752.7	1773.2	2004.9	2313.9	2468.4	2733.5	3263.9	3661.5	3721.1
135°	1664.7	1739.2	1813.8	1832.4	2037.8	2311.8	2448.7	2670.7	3114.8	3447.9	3499.2
137.5°	1742.0	1815.8	1889.6	1908.0	2087.1	2325.9	2445.4	2633.1	3008.5	3290.1	3332.1
140°	1806.1	1874.0	1942.0	1959.0	2117.2	2328.3	2433.9	2596.0	2920.4	3163.6	3202.8
142.5°	1855.4	1918.2	1981.0	1996.7	2142.4	2336.7	2433.9	2576.3	2861.2	3074.8	3108.7
145°	1931.0	1985.8	2040.6	2054.3	2175.3	2336.7	2417.4	2533.9	2766.9	2941.7	2967.3
147.5°	2006.6	2059.9	2113.2	2126.5	2223.5	2352.8	2417.4	2509.1	2692.4	2830.0	2851.1
150°	2055.9	2104.1	2152.4	2164.4	2248.7	2361.2	2417.4	2494.9	2649.7	2765.9	2783.0
152.5°	2106.9	2143.4	2179.9	2189.0	2265.1	2366.7	2417.4	2483.6	2615.8	2714.9	2727.9
155°	2182.5	2209.5	2236.5	2243.3	2301.3	2378.7	2417.4	2470.0	2575.3	2654.1	2662.7
157.5°	2238.4	2264.6	2290.9	2297.5	2337.4	2390.7	2417.4	2458.4	2540.1	2601.5	2607.6
160°	2276.1	2296.6	2317.0	2322.1	2353.9	2396.3	2417.4	2452.5	2522.6	2575.2	2578.7
162.5°	2313.9	2329.3	2344.5	2348.4	2371.4	2402.1	2417.4	2447.0	2506.2	2550.6	2553.8
165°	2355.0	2368.9	2382.7	2386.3	2396.6	2410.5	2417.4	2438.6	2480.9	2512.7	2516.2
167.5°	2392.8	2399.4	2405.9	2407.6	2416.4	2428.1	2433.9	2447.7	2475.5	2496.3	2497.8
170°	2417.4	2424.0	2430.6	2432.3	2432.8	2433.5	2433.9	2447.7	2475.5	2496.3	2496.3
172.5°	2430.6	2432.0	2433.5	2433.9	2433.9	2433.9	2433.9	2444.8	2466.8	2483.2	2481.9
175°	2448.7	2448.7	2448.7	2448.7	2443.8	2437.2	2433.9	2440.8	2454.7	2465.1	2465.1
177.5°	2448.7	2448.7	2448.7	2448.7	2444.8	2439.7	2437.2	2442.6	2453.6	2461.8	2460.3
180°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1915.6	1910.2	1915.6	1912.0	1913.7	1908.5	1892.6	1887.3	1892.6	1897.8	1897.8
5°	1938.5	1935.0	1938.5	1938.5	1936.7	1933.2	1915.6	1912.0	1915.6	1917.3	1913.7
7.5°	1945.6	1940.3	1945.6	1942.0	1942.0	1938.5	1920.8	1917.3	1919.1	1924.4	1919.1
10°	1945.6	1940.3	1945.6	1943.9	1942.0	1938.5	1920.8	1913.7	1913.7	1919.1	1913.7
12.5°	1936.7	1933.2	1936.7	1933.2	1933.2	1929.7	1912.0	1904.9	1906.7	1908.5	1901.4
15°	1922.6	1917.3	1922.6	1919.1	1920.8	1915.6	1896.1	1889.0	1889.0	1892.6	1880.2
17.5°	1901.4	1894.3	1901.4	1899.7	1897.8	1894.3	1876.7	1869.6	1867.8	1869.6	1860.8
20°	1876.7	1871.4	1876.7	1874.9	1874.9	1867.8	1850.1	1841.4	1841.4	1841.4	1832.5
22.5°	1837.8	1832.5	1837.8	1841.4	1841.4	1839.5	1823.6	1811.3	1807.7	1807.7	1797.2
25°	1793.6	1788.3	1793.6	1793.6	1791.8	1793.6	1788.3	1781.3	1775.9	1770.7	1760.0
27.5°	1751.2	1747.6	1751.2	1747.6	1751.2	1745.9	1744.1	1742.4	1735.3	1730.0	1715.8
30°	1708.8	1705.2	1708.8	1705.2	1701.7	1698.2	1689.3	1685.8	1692.9	1689.3	1666.4
32.5°	1655.8	1652.3	1655.8	1655.8	1652.3	1652.3	1638.1	1632.8	1634.6	1645.1	1624.0
35°	1601.0	1595.7	1601.0	1599.2	1601.0	1595.7	1586.8	1585.1	1578.0	1590.4	1574.5
37.5°	1537.4	1532.1	1537.4	1537.4	1537.4	1540.9	1533.9	1528.5	1518.0	1533.9	1521.5
40°	1472.0	1464.9	1472.0	1470.2	1472.0	1475.5	1472.0	1468.4	1457.9	1470.2	1459.6
42.5°	1397.8	1396.0	1397.8	1399.6	1399.6	1406.6	1412.0	1404.8	1401.3	1392.5	1399.6
45°	1318.2	1314.7	1318.2	1321.8	1323.6	1327.1	1343.0	1343.0	1337.7	1323.6	1334.1
47.5°	1233.4	1224.6	1233.4	1244.0	1244.0	1249.4	1265.3	1277.6	1268.8	1251.1	1256.4
50°	1143.3	1145.0	1143.3	1150.4	1150.4	1169.8	1182.2	1194.6	1203.4	1182.2	1157.4
52.5°	1054.9	1053.2	1054.9	1060.3	1067.3	1076.2	1097.3	1109.7	1123.9	1111.5	1072.7
55°	966.6	970.2	966.6	968.4	971.9	977.2	1009.0	1021.4	1047.9	1032.0	991.3
57.5°	878.2	872.9	878.2	881.8	883.6	888.8	915.4	938.3	954.3	956.0	906.5
60°	775.7	768.7	775.7	791.7	795.2	798.7	823.5	844.7	858.8	864.1	812.9
62.5°	685.6	673.3	685.6	696.2	703.3	712.1	729.8	761.7	774.0	775.7	703.3
65°	590.2	584.9	590.2	611.4	613.1	623.8	643.3	666.2	692.7	689.2	584.9
67.5°	503.6	503.6	503.6	517.8	528.4	533.7	558.4	569.1	602.6	606.1	487.7
70°	424.1	422.4	424.1	434.7	441.8	454.2	477.1	489.5	516.0	524.9	395.9
72.5°	348.2	346.3	348.2	356.9	364.1	374.6	394.1	408.2	431.2	441.8	307.5
75°	281.0	277.5	281.0	288.0	286.2	300.4	316.3	330.4	351.7	358.7	227.9
77.5°	215.6	215.6	215.6	222.6	222.6	236.8	243.9	261.6	273.9	284.5	167.8
80°	160.8	159.1	160.8	162.6	162.6	169.6	182.0	194.4	205.0	205.0	114.9
82.5°	113.1	109.5	113.1	113.1	113.1	116.6	123.7	127.3	134.3	139.6	72.5
85°	70.7	70.7	70.7	72.5	70.7	74.2	76.0	79.5	79.5	76.0	44.2
87.5°	45.9	44.2	45.9	44.2	44.2	42.4	42.4	42.4	40.7	38.9	24.8
90°	62.4	62.4	62.4	62.4	62.4	83.3	111.0	124.9	107.3	72.3	46.0
92.5°	250.1	200.5	250.1	299.9	312.2	442.6	616.4	703.3	617.5	445.9	317.2
95°	871.9	721.4	871.9	1022.4	1060.0	1392.0	1834.6	2055.9	1736.4	1097.3	617.9
97.5°	2089.1	1802.8	2089.1	2375.5	2447.0	2656.9	2936.6	3076.4	2543.6	1478.0	678.8
100°	3010.0	2668.9	3010.0	3351.1	3436.4	3421.0	3400.5	3390.3	2799.1	1616.6	729.7
102.5°	3915.9	3623.7	3915.9	4208.0	4281.1	4013.7	3657.3	3479.1	2879.4	1680.1	780.6
105°	5070.9	4913.8	5070.9	5227.8	5267.1	4667.8	3868.7	3469.2	2888.6	1727.3	856.3
107.5°	5827.4	5865.3	5827.4	5789.3	5779.8	4943.9	3829.3	3272.0	2760.0	1736.0	968.0
110°	6115.9	6279.5	6115.9	5952.2	5911.3	4976.8	3730.8	3107.7	2646.1	1722.9	1030.4



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CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6141.6	6392.9	6141.6	5890.3	5827.5	4871.1	3595.8	2958.1	2546.5	1723.4	1106.0
115°	5978.7	6327.1	5978.7	5630.3	5543.2	4621.8	3393.3	2779.0	2432.5	1739.3	1219.4
117.5°	5633.4	6019.8	5633.4	5247.1	5150.4	4318.9	3210.1	2655.7	2361.0	1771.5	1329.5
120°	5355.1	5730.6	5355.1	4979.7	4885.8	4126.0	3113.0	2606.4	2336.9	1797.9	1393.6
122.5°	5084.2	5454.5	5084.2	4713.8	4621.3	3937.1	3024.8	2568.7	2324.3	1835.7	1469.2
125°	4697.6	5038.7	4697.6	4356.5	4271.2	3690.0	2915.1	2527.6	2314.0	1886.7	1566.2
127.5°	4350.0	4637.7	4350.0	4062.1	3990.2	3491.2	2825.8	2493.1	2307.9	1937.5	1659.8
130°	4145.1	4410.9	4145.1	3879.2	3812.7	3368.5	2776.0	2479.9	2311.5	1974.8	1722.3
132.5°	3959.1	4197.2	3959.1	3721.1	3661.5	3263.9	2733.5	2468.4	2313.9	2004.9	1773.2
135°	3704.4	3909.7	3704.4	3499.2	3447.9	3114.8	2670.7	2448.7	2311.8	2037.8	1832.4
137.5°	3500.1	3668.0	3500.1	3332.1	3290.1	3008.5	2633.1	2445.4	2325.9	2087.1	1908.0
140°	3359.9	3516.9	3359.9	3202.8	3163.6	2920.4	2596.0	2433.9	2328.3	2117.2	1959.0
142.5°	3243.7	3378.8	3243.7	3108.7	3074.8	2861.2	2576.3	2433.9	2336.7	2142.4	1996.7
145°	3069.6	3171.8	3069.6	2967.3	2941.7	2766.9	2533.9	2417.4	2336.7	2175.3	2054.3
147.5°	2935.9	3020.6	2935.9	2851.1	2830.0	2692.4	2509.1	2417.4	2352.8	2223.5	2126.5
150°	2851.7	2920.4	2851.7	2783.0	2765.9	2649.7	2494.9	2417.4	2361.2	2248.7	2164.4
152.5°	2779.7	2831.6	2779.7	2727.9	2714.9	2615.8	2483.6	2417.4	2366.7	2265.1	2189.0
155°	2697.0	2731.3	2697.0	2662.7	2654.1	2575.3	2470.0	2417.4	2378.7	2301.3	2243.3
157.5°	2631.7	2655.7	2631.7	2607.6	2601.5	2540.1	2458.4	2417.4	2390.7	2337.4	2297.5
160°	2592.6	2606.4	2592.6	2578.7	2575.2	2522.6	2452.5	2417.4	2396.3	2353.9	2322.1
162.5°	2567.0	2580.2	2567.0	2553.8	2550.6	2506.2	2447.0	2417.4	2402.1	2371.4	2348.4
165°	2530.1	2544.0	2530.1	2516.2	2512.7	2480.9	2438.6	2417.4	2410.5	2396.6	2386.3
167.5°	2503.6	2509.5	2503.6	2497.8	2496.3	2475.5	2447.7	2433.9	2428.1	2416.4	2407.6
170°	2496.3	2496.3	2496.3	2496.3	2496.3	2475.5	2447.7	2433.9	2433.5	2432.8	2432.3
172.5°	2476.8	2471.7	2476.8	2481.9	2483.2	2466.8	2444.8	2433.9	2433.9	2433.9	2433.9
175°	2465.1	2465.1	2465.1	2465.1	2465.1	2454.7	2440.8	2433.9	2437.2	2443.8	2448.7
177.5°	2454.5	2448.7	2454.5	2460.3	2461.8	2453.6	2442.6	2437.2	2439.7	2444.8	2448.7
180°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1894.3	1883.7	1883.7	1866.0	1859.0	1853.7	1844.9	1818.3	1811.3	1804.2	1814.8
5°	1910.2	1890.8	1876.7	1844.9	1818.3	1807.7	1774.2	1710.6	1668.2	1636.4	1618.7
7.5°	1913.7	1889.0	1862.5	1813.1	1749.4	1721.1	1618.7	1502.1	1470.2	1442.0	1424.3
10°	1910.2	1881.9	1844.9	1770.7	1620.5	1570.9	1468.4	1392.5	1373.0	1367.8	1373.0
12.5°	1897.8	1871.4	1820.1	1696.4	1486.2	1452.5	1392.5	1348.3	1344.8	1353.6	1401.3
15°	1876.7	1851.9	1791.8	1597.5	1412.0	1387.2	1344.8	1328.9	1348.3	1410.1	1553.3
17.5°	1855.5	1827.2	1753.0	1500.3	1355.4	1337.7	1307.6	1339.5	1449.0	1532.1	1579.8
20°	1827.2	1793.6	1708.8	1429.6	1314.7	1298.8	1284.7	1427.9	1510.9	1540.9	1567.4
22.5°	1793.6	1758.3	1648.7	1380.1	1272.3	1259.9	1268.8	1477.3	1510.9	1532.1	1555.0
25°	1749.4	1719.4	1578.0	1341.3	1238.8	1224.6	1258.2	1472.0	1491.4	1496.7	1542.6
27.5°	1708.8	1669.9	1503.8	1305.9	1198.1	1192.8	1267.0	1449.0	1463.2	1468.4	1518.0
30°	1659.3	1601.0	1420.7	1268.8	1155.7	1153.9	1268.8	1420.7	1417.2	1431.4	1480.8
32.5°	1608.1	1498.5	1327.1	1222.9	1115.0	1113.2	1256.4	1378.3	1374.8	1394.2	1431.4
35°	1560.4	1419.0	1199.8	1169.8	1063.8	1065.6	1226.4	1328.9	1330.6	1348.3	1371.3
37.5°	1510.9	1350.0	1060.3	1111.5	1014.3	1014.3	1185.7	1282.9	1279.4	1284.7	1316.5
40°	1452.5	1242.3	936.5	1035.5	968.4	963.1	1136.3	1233.4	1221.1	1219.3	1263.4
42.5°	1390.7	1123.9	844.7	934.8	915.4	908.3	1076.2	1173.3	1150.4	1155.7	1212.2
45°	1323.6	1092.1	774.0	789.9	860.6	855.3	1010.7	1104.5	1088.6	1102.7	1161.0
47.5°	1256.4	1028.5	751.0	655.6	802.2	800.5	938.3	1037.3	1028.5	1042.6	1104.5
50°	1164.5	957.8	749.3	561.9	736.9	743.9	851.8	971.9	971.9	984.3	1049.7
52.5°	1046.1	871.2	680.3	508.9	660.9	682.1	775.7	915.4	918.9	931.3	989.6
55°	938.3	781.1	630.9	468.3	570.8	616.7	701.5	857.0	864.1	876.5	929.5
57.5°	839.4	650.3	620.3	420.5	487.7	531.9	636.2	800.5	804.0	814.6	865.9
60°	733.4	470.1	569.1	369.3	415.3	448.8	576.1	733.4	745.7	752.8	797.0
62.5°	613.1	341.0	516.0	334.0	380.0	387.0	526.6	669.7	685.6	691.0	717.5
65°	436.5	286.2	438.3	304.0	342.8	344.6	473.6	604.4	618.5	627.3	646.8
67.5°	295.1	233.3	334.0	275.7	314.5	316.3	422.4	528.4	547.8	554.9	567.2
70°	205.0	155.5	247.4	245.7	282.7	286.2	367.6	459.4	477.1	482.5	489.5
72.5°	150.2	125.4	205.0	220.9	249.2	252.7	311.0	381.7	399.4	404.6	408.2
75°	114.9	132.5	166.1	192.6	212.0	213.8	254.4	311.0	323.4	326.9	328.7
77.5°	91.9	123.7	121.9	155.5	173.2	169.6	199.7	240.3	250.9	250.9	250.9
80°	68.9	97.2	91.9	111.4	127.3	123.7	143.2	171.4	175.0	178.5	176.7
82.5°	51.2	61.8	61.8	70.7	84.8	81.3	95.4	111.4	111.4	111.4	114.9
85°	31.8	35.3	28.3	37.2	47.7	45.9	53.0	60.1	61.8	61.8	58.3
87.5°	19.4	15.9	8.9	14.1	21.2	21.2	24.8	26.5	24.8	24.8	24.8
90°	42.8	29.6	16.4	29.6	42.8	46.0	72.3	107.3	124.9	111.0	83.3
92.5°	289.2	177.4	65.7	177.4	289.2	317.2	445.9	617.5	703.3	616.4	442.6
95°	566.8	362.2	157.7	362.2	566.8	617.9	1097.3	1736.4	2055.9	1834.6	1392.0
97.5°	633.6	453.2	272.8	453.2	633.6	678.8	1478.0	2543.6	3076.4	2936.6	2656.9
100°	688.8	525.1	361.5	525.1	688.8	729.7	1616.6	2799.1	3390.3	3400.5	3421.0
102.5°	742.4	589.8	437.1	589.8	742.4	780.6	1680.1	2879.4	3479.1	3657.3	4013.7
105°	823.9	694.6	565.4	694.6	823.9	856.3	1727.3	2888.6	3469.2	3868.7	4667.8
107.5°	937.8	817.3	696.8	817.3	937.8	968.0	1736.0	2760.0	3272.0	3829.3	4943.9
110°	1003.2	894.4	785.6	894.4	1003.2	1030.4	1722.9	2646.1	3107.7	3730.8	4976.8



TEST NUMBER: P935853

CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1080.1	976.4	872.7	976.4	1080.1	1106.0	1723.4	2546.5	2958.1	3595.8	4871.1
115°	1195.5	1099.8	1004.2	1099.8	1195.5	1219.4	1739.3	2432.5	2779.0	3393.3	4621.8
117.5°	1307.8	1220.8	1134.0	1220.8	1307.8	1329.5	1771.5	2361.0	2655.7	3210.1	4318.9
120°	1373.1	1291.4	1209.5	1291.4	1373.1	1393.6	1797.9	2336.9	2606.4	3113.0	4126.0
122.5°	1448.6	1366.0	1283.5	1366.0	1448.6	1469.2	1835.7	2324.3	2568.7	3024.8	3937.1
125°	1547.4	1472.1	1396.9	1472.1	1547.4	1566.2	1886.7	2314.0	2527.6	2915.1	3690.0
127.5°	1640.8	1564.9	1488.9	1564.9	1640.8	1659.8	1937.5	2307.9	2493.1	2825.8	3491.2
130°	1701.8	1620.0	1538.3	1620.0	1701.8	1722.3	1974.8	2311.5	2479.9	2776.0	3368.5
132.5°	1752.7	1671.0	1589.2	1671.0	1752.7	1773.2	2004.9	2313.9	2468.4	2733.5	3263.9
135°	1813.8	1739.2	1664.7	1739.2	1813.8	1832.4	2037.8	2311.8	2448.7	2670.7	3114.8
137.5°	1889.6	1815.8	1742.0	1815.8	1889.6	1908.0	2087.1	2325.9	2445.4	2633.1	3008.5
140°	1942.0	1874.0	1806.1	1874.0	1942.0	1959.0	2117.2	2328.3	2433.9	2596.0	2920.4
142.5°	1981.0	1918.2	1855.4	1918.2	1981.0	1996.7	2142.4	2336.7	2433.9	2576.3	2861.2
145°	2040.6	1985.8	1931.0	1985.8	2040.6	2054.3	2175.3	2336.7	2417.4	2533.9	2766.9
147.5°	2113.2	2059.9	2006.6	2059.9	2113.2	2126.5	2223.5	2352.8	2417.4	2509.1	2692.4
150°	2152.4	2104.1	2055.9	2104.1	2152.4	2164.4	2248.7	2361.2	2417.4	2494.9	2649.7
152.5°	2179.9	2143.4	2106.9	2143.4	2179.9	2189.0	2265.1	2366.7	2417.4	2483.6	2615.8
155°	2236.5	2209.5	2182.5	2209.5	2236.5	2243.3	2301.3	2378.7	2417.4	2470.0	2575.3
157.5°	2290.9	2264.6	2238.4	2264.6	2290.9	2297.5	2337.4	2390.7	2417.4	2458.4	2540.1
160°	2317.0	2296.6	2276.1	2296.6	2317.0	2322.1	2353.9	2396.3	2417.4	2452.5	2522.6
162.5°	2344.5	2329.3	2313.9	2329.3	2344.5	2348.4	2371.4	2402.1	2417.4	2447.0	2506.2
165°	2382.7	2368.9	2355.0	2368.9	2382.7	2386.3	2396.6	2410.5	2417.4	2438.6	2480.9
167.5°	2405.9	2399.4	2392.8	2399.4	2405.9	2407.6	2416.4	2428.1	2433.9	2447.7	2475.5
170°	2430.6	2424.0	2417.4	2424.0	2430.6	2432.3	2432.8	2433.5	2433.9	2447.7	2475.5
172.5°	2433.5	2432.0	2430.6	2432.0	2433.5	2433.9	2433.9	2433.9	2433.9	2444.8	2466.8
175°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2443.8	2437.2	2433.9	2440.8	2454.7
177.5°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2444.8	2439.7	2437.2	2442.6	2453.6
180°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7



TEST NUMBER: P935853
 CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1802.4	1797.2	1804.2	1784.8	1804.2	1797.2	1802.4	1814.8	1804.2	1811.3	1818.3
5°	1581.6	1572.7	1544.5	1521.5	1544.5	1572.7	1581.6	1618.7	1636.4	1668.2	1710.6
7.5°	1413.7	1406.6	1399.6	1385.4	1399.6	1406.6	1413.7	1424.3	1442.0	1470.2	1502.1
10°	1376.6	1378.3	1388.9	1387.2	1388.9	1378.3	1376.6	1373.0	1367.8	1373.0	1392.5
12.5°	1472.0	1487.9	1546.2	1542.6	1546.2	1487.9	1472.0	1401.3	1353.6	1344.8	1348.3
15°	1581.6	1586.8	1599.2	1601.0	1599.2	1586.8	1581.6	1553.3	1410.1	1348.3	1328.9
17.5°	1592.2	1593.9	1602.7	1602.7	1602.7	1593.9	1592.2	1579.8	1532.1	1449.0	1339.5
20°	1583.3	1586.8	1604.6	1608.1	1604.6	1586.8	1583.3	1567.4	1540.9	1510.9	1427.9
22.5°	1579.8	1586.8	1601.0	1599.2	1601.0	1586.8	1579.8	1555.0	1532.1	1510.9	1477.3
25°	1562.1	1562.1	1563.9	1565.7	1563.9	1562.1	1562.1	1542.6	1496.7	1491.4	1472.0
27.5°	1525.0	1528.5	1539.1	1537.4	1539.1	1528.5	1525.0	1518.0	1468.4	1463.2	1449.0
30°	1491.4	1487.9	1479.1	1472.0	1479.1	1487.9	1491.4	1480.8	1431.4	1417.2	1420.7
32.5°	1434.9	1426.0	1417.2	1412.0	1417.2	1426.0	1434.9	1431.4	1394.2	1374.8	1378.3
35°	1367.8	1369.5	1367.8	1362.4	1367.8	1369.5	1367.8	1371.3	1348.3	1330.6	1328.9
37.5°	1320.0	1323.6	1321.8	1314.7	1321.8	1323.6	1320.0	1316.5	1284.7	1279.4	1282.9
40°	1270.6	1272.3	1270.6	1265.3	1270.6	1272.3	1270.6	1263.4	1219.3	1221.1	1233.4
42.5°	1222.9	1221.1	1215.7	1212.2	1215.7	1221.1	1222.9	1212.2	1155.7	1150.4	1173.3
45°	1168.1	1169.8	1159.2	1153.9	1159.2	1169.8	1168.1	1161.0	1102.7	1088.6	1104.5
47.5°	1113.2	1113.2	1104.5	1099.1	1104.5	1113.2	1113.2	1104.5	1042.6	1028.5	1037.3
50°	1054.9	1053.2	1040.8	1039.0	1040.8	1053.2	1054.9	1049.7	984.3	971.9	971.9
52.5°	987.8	987.8	989.6	993.1	989.6	987.8	987.8	989.6	931.3	918.9	915.4
55°	929.5	931.3	943.6	947.2	943.6	931.3	929.5	929.5	876.5	864.1	857.0
57.5°	869.4	869.4	878.2	878.2	878.2	869.4	869.4	865.9	814.6	804.0	800.5
60°	800.5	804.0	811.1	809.4	811.1	804.0	800.5	797.0	752.8	745.7	733.4
62.5°	728.0	731.6	733.4	729.8	733.4	731.6	728.0	717.5	691.0	685.6	669.7
65°	652.1	655.6	657.3	653.8	657.3	655.6	652.1	646.8	627.3	618.5	604.4
67.5°	574.3	572.6	570.8	577.8	570.8	572.6	574.3	567.2	554.9	547.8	528.4
70°	494.7	494.7	493.0	496.6	493.0	494.7	494.7	489.5	482.5	477.1	459.4
72.5°	410.0	408.2	415.3	410.0	415.3	408.2	410.0	408.2	404.6	399.4	381.7
75°	326.9	330.4	326.9	332.2	326.9	330.4	326.9	328.7	326.9	323.4	311.0
77.5°	249.2	252.7	249.2	249.2	249.2	252.7	249.2	250.9	250.9	250.9	240.3
80°	176.7	175.0	175.0	173.2	175.0	175.0	176.7	176.7	178.5	175.0	171.4
82.5°	113.1	111.4	111.4	114.9	111.4	111.4	113.1	114.9	111.4	111.4	111.4
85°	61.8	63.6	60.1	60.1	60.1	63.6	61.8	58.3	61.8	61.8	60.1
87.5°	23.0	21.2	21.2	21.2	21.2	21.2	23.0	24.8	24.8	24.8	26.5
90°	62.4	62.4	62.4	62.4	62.4	62.4	62.4	83.3	111.0	124.9	107.3
92.5°	312.2	299.9	250.1	200.5	250.1	299.9	312.2	442.6	616.4	703.3	617.5
95°	1060.0	1022.4	871.9	721.4	871.9	1022.4	1060.0	1392.0	1834.6	2055.9	1736.4
97.5°	2447.0	2375.5	2089.1	1802.8	2089.1	2375.5	2447.0	2656.9	2936.6	3076.4	2543.6
100°	3436.4	3351.1	3010.0	2668.9	3010.0	3351.1	3436.4	3421.0	3400.5	3390.3	2799.1
102.5°	4281.1	4208.0	3915.9	3623.7	3915.9	4208.0	4281.1	4013.7	3657.3	3479.1	2879.4
105°	5267.1	5227.8	5070.9	4913.8	5070.9	5227.8	5267.1	4667.8	3868.7	3469.2	2888.6
107.5°	5779.8	5789.3	5827.4	5865.3	5827.4	5789.3	5779.8	4943.9	3829.3	3272.0	2760.0
110°	5911.3	5952.2	6115.9	6279.5	6115.9	5952.2	5911.3	4976.8	3730.8	3107.7	2646.1



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	5827.5	5890.3	6141.6	6392.9	6141.6	5890.3	5827.5	4871.1	3595.8	2958.1	2546.5
115°	5543.2	5630.3	5978.7	6327.1	5978.7	5630.3	5543.2	4621.8	3393.3	2779.0	2432.5
117.5°	5150.4	5247.1	5633.4	6019.8	5633.4	5247.1	5150.4	4318.9	3210.1	2655.7	2361.0
120°	4885.8	4979.7	5355.1	5730.6	5355.1	4979.7	4885.8	4126.0	3113.0	2606.4	2336.9
122.5°	4621.3	4713.8	5084.2	5454.5	5084.2	4713.8	4621.3	3937.1	3024.8	2568.7	2324.3
125°	4271.2	4356.5	4697.6	5038.7	4697.6	4356.5	4271.2	3690.0	2915.1	2527.6	2314.0
127.5°	3990.2	4062.1	4350.0	4637.7	4350.0	4062.1	3990.2	3491.2	2825.8	2493.1	2307.9
130°	3812.7	3879.2	4145.1	4410.9	4145.1	3879.2	3812.7	3368.5	2776.0	2479.9	2311.5
132.5°	3661.5	3721.1	3959.1	4197.2	3959.1	3721.1	3661.5	3263.9	2733.5	2468.4	2313.9
135°	3447.9	3499.2	3704.4	3909.7	3704.4	3499.2	3447.9	3114.8	2670.7	2448.7	2311.8
137.5°	3290.1	3332.1	3500.1	3668.0	3500.1	3332.1	3290.1	3008.5	2633.1	2445.4	2325.9
140°	3163.6	3202.8	3359.9	3516.9	3359.9	3202.8	3163.6	2920.4	2596.0	2433.9	2328.3
142.5°	3074.8	3108.7	3243.7	3378.8	3243.7	3108.7	3074.8	2861.2	2576.3	2433.9	2336.7
145°	2941.7	2967.3	3069.6	3171.8	3069.6	2967.3	2941.7	2766.9	2533.9	2417.4	2336.7
147.5°	2830.0	2851.1	2935.9	3020.6	2935.9	2851.1	2830.0	2692.4	2509.1	2417.4	2352.8
150°	2765.9	2783.0	2851.7	2920.4	2851.7	2783.0	2765.9	2649.7	2494.9	2417.4	2361.2
152.5°	2714.9	2727.9	2779.7	2831.6	2779.7	2727.9	2714.9	2615.8	2483.6	2417.4	2366.7
155°	2654.1	2662.7	2697.0	2731.3	2697.0	2662.7	2654.1	2575.3	2470.0	2417.4	2378.7
157.5°	2601.5	2607.6	2631.7	2655.7	2631.7	2607.6	2601.5	2540.1	2458.4	2417.4	2390.7
160°	2575.2	2578.7	2592.6	2606.4	2592.6	2578.7	2575.2	2522.6	2452.5	2417.4	2396.3
162.5°	2550.6	2553.8	2567.0	2580.2	2567.0	2553.8	2550.6	2506.2	2447.0	2417.4	2402.1
165°	2512.7	2516.2	2530.1	2544.0	2530.1	2516.2	2512.7	2480.9	2438.6	2417.4	2410.5
167.5°	2496.3	2497.8	2503.6	2509.5	2503.6	2497.8	2496.3	2475.5	2447.7	2433.9	2428.1
170°	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2496.3	2475.5	2447.7	2433.9	2433.5
172.5°	2483.2	2481.9	2476.8	2471.7	2476.8	2481.9	2483.2	2466.8	2444.8	2433.9	2433.9
175°	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2465.1	2454.7	2440.8	2433.9	2437.2
177.5°	2461.8	2460.3	2454.5	2448.7	2454.5	2460.3	2461.8	2453.6	2442.6	2437.2	2439.7
180°	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7	2448.7



TEST NUMBER: P935853

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1867.8	1867.8	1867.8	1867.8	1867.8
2.5°	1844.9	1853.7	1859.0	1866.0	1883.7
5°	1774.2	1807.7	1818.3	1844.9	1876.7
7.5°	1618.7	1721.1	1749.4	1813.1	1862.5
10°	1468.4	1570.9	1620.5	1770.7	1844.9
12.5°	1392.5	1452.5	1486.2	1696.4	1820.1
15°	1344.8	1387.2	1412.0	1597.5	1791.8
17.5°	1307.6	1337.7	1355.4	1500.3	1753.0
20°	1284.7	1298.8	1314.7	1429.6	1708.8
22.5°	1268.8	1259.9	1272.3	1380.1	1648.7
25°	1258.2	1224.6	1238.8	1341.3	1578.0
27.5°	1267.0	1192.8	1198.1	1305.9	1503.8
30°	1268.8	1153.9	1155.7	1268.8	1420.7
32.5°	1256.4	1113.2	1115.0	1222.9	1327.1
35°	1226.4	1065.6	1063.8	1169.8	1199.8
37.5°	1185.7	1014.3	1014.3	1111.5	1060.3
40°	1136.3	963.1	968.4	1035.5	936.5
42.5°	1076.2	908.3	915.4	934.8	844.7
45°	1010.7	855.3	860.6	789.9	774.0
47.5°	938.3	800.5	802.2	655.6	751.0
50°	851.8	743.9	736.9	561.9	749.3
52.5°	775.7	682.1	660.9	508.9	680.3
55°	701.5	616.7	570.8	468.3	630.9
57.5°	636.2	531.9	487.7	420.5	620.3
60°	576.1	448.8	415.3	369.3	569.1
62.5°	526.6	387.0	380.0	334.0	516.0
65°	473.6	344.6	342.8	304.0	438.3
67.5°	422.4	316.3	314.5	275.7	334.0
70°	367.6	286.2	282.7	245.7	247.4
72.5°	311.0	252.7	249.2	220.9	205.0
75°	254.4	213.8	212.0	192.6	166.1
77.5°	199.7	169.6	173.2	155.5	121.9
80°	143.2	123.7	127.3	111.4	91.9
82.5°	95.4	81.3	84.8	70.7	61.8
85°	53.0	45.9	47.7	37.2	28.3
87.5°	24.8	21.2	21.2	14.1	8.9
90°	72.3	46.0	42.8	29.6	16.4
92.5°	445.9	317.2	289.2	177.4	65.7
95°	1097.3	617.9	566.8	362.2	157.7
97.5°	1478.0	678.8	633.6	453.2	272.8
100°	1616.6	729.7	688.8	525.1	361.5
102.5°	1680.1	780.6	742.4	589.8	437.1
105°	1727.3	856.3	823.9	694.6	565.4
107.5°	1736.0	968.0	937.8	817.3	696.8
110°	1722.9	1030.4	1003.2	894.4	785.6



TEST NUMBER: P935853

CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1723.4	1106.0	1080.1	976.4	872.7
115°	1739.3	1219.4	1195.5	1099.8	1004.2
117.5°	1771.5	1329.5	1307.8	1220.8	1134.0
120°	1797.9	1393.6	1373.1	1291.4	1209.5
122.5°	1835.7	1469.2	1448.6	1366.0	1283.5
125°	1886.7	1566.2	1547.4	1472.1	1396.9
127.5°	1937.5	1659.8	1640.8	1564.9	1488.9
130°	1974.8	1722.3	1701.8	1620.0	1538.3
132.5°	2004.9	1773.2	1752.7	1671.0	1589.2
135°	2037.8	1832.4	1813.8	1739.2	1664.7
137.5°	2087.1	1908.0	1889.6	1815.8	1742.0
140°	2117.2	1959.0	1942.0	1874.0	1806.1
142.5°	2142.4	1996.7	1981.0	1918.2	1855.4
145°	2175.3	2054.3	2040.6	1985.8	1931.0
147.5°	2223.5	2126.5	2113.2	2059.9	2006.6
150°	2248.7	2164.4	2152.4	2104.1	2055.9
152.5°	2265.1	2189.0	2179.9	2143.4	2106.9
155°	2301.3	2243.3	2236.5	2209.5	2182.5
157.5°	2337.4	2297.5	2290.9	2264.6	2238.4
160°	2353.9	2322.1	2317.0	2296.6	2276.1
162.5°	2371.4	2348.4	2344.5	2329.3	2313.9
165°	2396.6	2386.3	2382.7	2368.9	2355.0
167.5°	2416.4	2407.6	2405.9	2399.4	2392.8
170°	2432.8	2432.3	2430.6	2424.0	2417.4
172.5°	2433.9	2433.9	2433.5	2432.0	2430.6
175°	2443.8	2448.7	2448.7	2448.7	2448.7
177.5°	2444.8	2448.7	2448.7	2448.7	2448.7
180°	2448.7	2448.7	2448.7	2448.7	2448.7



TEST NUMBER: P935853
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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	7.70	8.36	8.85	9.50	11.11	10.55	11.21	11.70	12.35	13.96
	3H	8.16	8.75	9.32	9.90	11.52	11.88	12.48	13.05	13.63	15.25
	4H	8.34	8.90	9.51	10.06	11.68	12.32	12.89	13.50	14.04	15.67
	6H	8.45	8.97	9.63	10.12	11.76	12.60	13.12	13.78	14.28	15.91
	8H	8.44	8.94	9.62	10.11	11.73	12.67	13.17	13.86	14.34	15.97
	12H	8.41	8.88	9.59	10.04	11.69	12.71	13.18	13.90	14.34	15.99
4H	2H	8.71	9.27	9.89	10.42	12.05	10.93	11.50	12.11	12.65	14.27
	3H	9.72	10.19	10.90	11.37	13.00	12.42	12.90	13.61	14.07	15.71
	4H	9.99	10.42	11.17	11.58	13.24	12.95	13.38	14.13	14.55	16.20
	6H	10.10	10.47	11.29	11.66	13.30	13.31	13.68	14.50	14.87	16.51
	8H	10.10	10.45	11.29	11.62	13.29	13.41	13.76	14.60	14.94	16.60
	12H	10.06	10.37	11.26	11.56	13.23	13.46	13.78	14.67	14.97	16.63
8H	4H	10.43	10.77	11.62	11.95	13.61	13.06	13.40	14.25	14.58	16.24
	6H	10.68	10.96	11.89	12.19	13.84	13.49	13.78	14.70	15.00	16.66
	8H	10.72	10.97	11.93	12.17	13.85	13.64	13.89	14.86	15.09	16.77
	12H	10.69	10.91	11.91	12.11	13.82	13.74	13.95	14.95	15.15	16.86
12H	4H	10.42	10.74	11.63	11.93	13.59	13.01	13.33	14.22	14.51	16.18
	6H	10.74	10.99	11.95	12.19	13.87	13.49	13.73	14.70	14.93	16.61
	8H	10.80	11.01	12.01	12.21	13.92	13.64	13.86	14.86	15.05	16.77