

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: P935854

Luminaire Tested: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935854
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-12-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

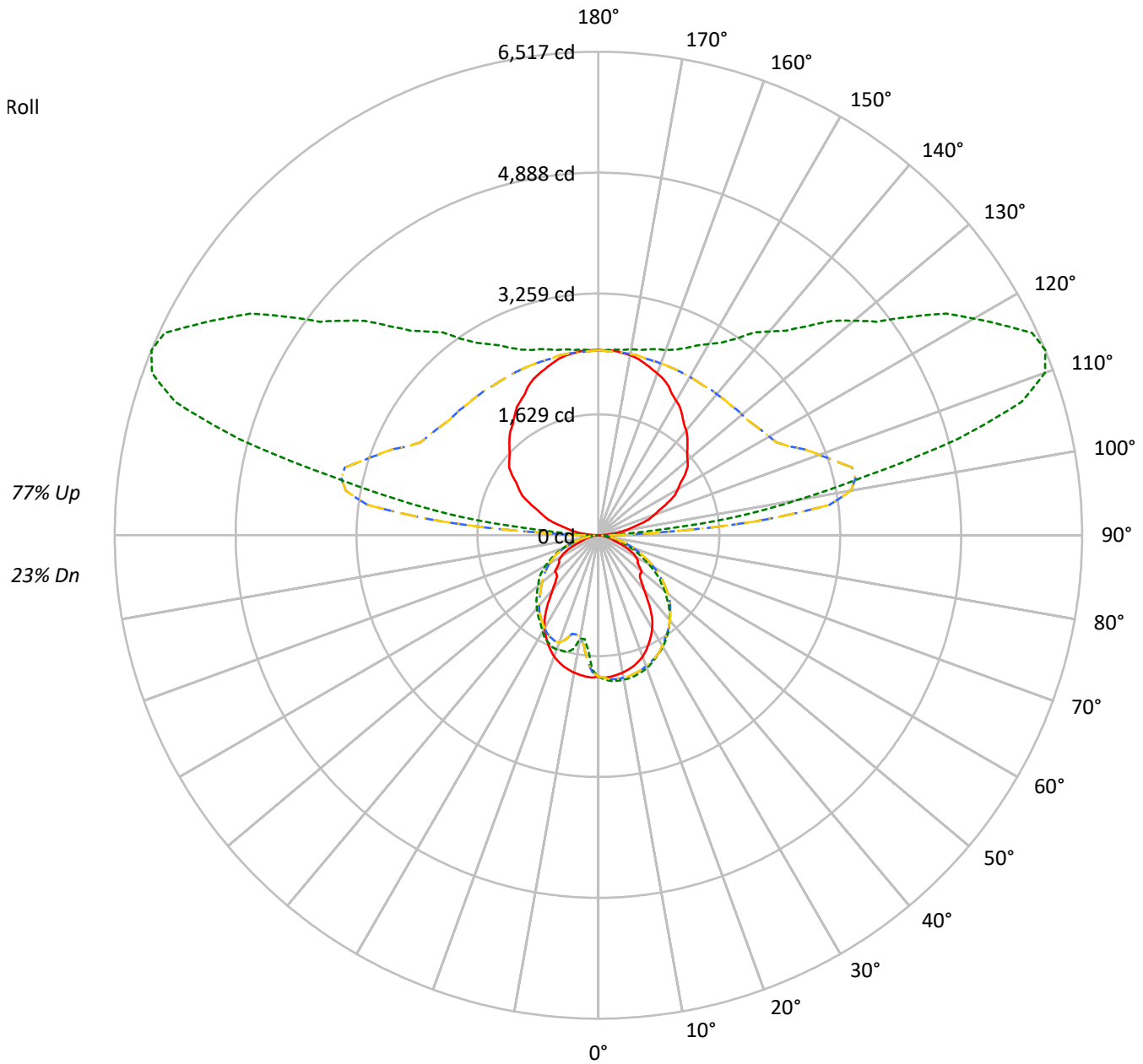
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21127.5 lumens
Efficiency: N/A
Efficacy: 126.7 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°	5889	5889	5889	5889
5°	5935	5945	5935	4674
10°	5898	5856	5898	4187
15°	5836	5729	5836	4784
20°	5716	5579	5716	4794
25°	5469	5359	5469	4692
30°	5148	5177	5148	4469
35°	4592	4947	4592	4224
40°	3828	4676	3828	4039
45°	3422	4359	3422	3826
50°	3639	3981	3639	3612
55°	3427	3573	3427	3489
60°	3538	3035	3538	3195
65°	3213	2509	3213	2804
70°	2230	2000	2230	2351
75°	1962	1478	1962	1769
80°	1592	977	1592	1064
85°	933	518	933	440

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
 Vertical Angle: 90°
 Luminance: 6199 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	171.9	0.8
10°-20°	488.0	2.3
20°-30°	754.3	3.6
30°-40°	900.5	4.3
40°-50°	905.8	4.3
50°-60°	788.2	3.7
60°-70°	558.8	2.6
70°-80°	295.6	1.4
80°-90°	83.2	0.4
90°-100°	1216.7	5.8
100°-110°	3198.8	15.1
110°-120°	3316.9	15.7
120°-130°	2660.5	12.6
130°-140°	2087.6	9.9
140°-150°	1602.3	7.6
150°-160°	1153.9	5.5
160°-170°	706.0	3.3
170°-180°	238.5	1.1
0°-30°	1414.2	6.7
0°-40°	2314.7	11.0
0°-60°	4008.7	19.0
0°-90°	4946.3	23.4
90°-120°	7732.4	36.6
90°-150°	14082.8	66.7
90°-180°	16181.0	76.6
0°-180°	21127.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1904	1904	1904	1904	1904	
5°	1913	1972	1913	1551	1913	181
15°	1826	1954	1826	1632	1826	514
25°	1609	1823	1609	1596	1609	739
35°	1223	1627	1223	1389	1223	757
45°	789	1340	789	1176	789	632
55°	643	989	643	966	643	591
65°	447	596	447	666	447	427
75°	169	283	169	339	169	178
85°	29	72	29	61	29	39
90°	17	64	17	64	17	15
95°	161	735	161	735	161	179
105°	576	5009	576	5009	576	611
115°	1024	6450	1024	6450	1024	1011
125°	1424	5136	1424	5136	1424	1264
135°	1697	3985	1697	3985	1697	1313
145°	1968	3233	1968	3233	1968	1233
155°	2225	2784	2225	2784	2225	1022
165°	2401	2593	2401	2593	2401	677
175°	2496	2513	2496	2513	2496	237
180°	2496	2496	2496	2496	2496	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1920.2	1920.2	1931.0	1934.6	1934.6	1929.2	1923.8	1929.2	1945.4	1950.8	1949.0
5°	1913.0	1927.4	1947.2	1950.8	1954.5	1952.7	1949.0	1952.7	1970.7	1974.3	1976.0
7.5°	1898.6	1925.6	1950.8	1956.3	1961.6	1956.3	1954.5	1958.0	1976.0	1979.6	1979.6
10°	1880.6	1918.4	1947.2	1950.8	1956.3	1950.8	1950.8	1958.0	1976.0	1979.6	1981.5
12.5°	1855.4	1907.6	1934.6	1938.3	1945.4	1943.6	1941.8	1949.0	1967.1	1970.7	1970.7
15°	1826.5	1887.8	1913.0	1916.6	1929.2	1925.6	1925.6	1932.8	1952.7	1958.0	1956.3
17.5°	1787.0	1862.6	1891.4	1896.8	1905.9	1904.0	1905.9	1913.0	1931.0	1934.6	1936.5
20°	1741.9	1828.3	1862.6	1868.0	1877.0	1877.0	1877.0	1886.0	1904.0	1911.2	1911.2
22.5°	1680.7	1792.3	1828.3	1832.0	1842.7	1842.7	1846.4	1858.9	1875.1	1877.0	1877.0
25°	1608.6	1752.7	1783.3	1794.1	1804.9	1810.3	1815.8	1822.9	1828.3	1826.5	1828.3
27.5°	1533.0	1702.3	1741.9	1749.1	1763.5	1768.9	1776.1	1777.9	1779.7	1785.1	1781.5
30°	1448.3	1632.0	1691.4	1698.7	1722.0	1725.7	1718.5	1722.0	1731.1	1734.7	1738.2
32.5°	1352.8	1527.5	1639.2	1655.4	1677.0	1666.3	1664.4	1669.8	1684.3	1684.3	1687.8
35°	1223.1	1446.5	1590.6	1605.0	1621.2	1608.6	1615.8	1617.6	1626.6	1632.0	1630.2
37.5°	1080.8	1376.2	1540.1	1550.9	1563.6	1547.4	1558.1	1563.6	1570.7	1567.2	1567.2
40°	954.7	1266.3	1480.7	1487.9	1498.7	1486.1	1496.9	1500.5	1504.1	1500.5	1498.7
42.5°	861.0	1145.6	1417.6	1426.7	1419.4	1428.5	1432.1	1439.3	1433.8	1426.7	1426.7
45°	788.9	1113.2	1349.2	1360.0	1349.2	1363.6	1369.0	1369.0	1352.8	1349.2	1347.4
47.5°	765.6	1048.4	1280.7	1280.7	1275.4	1293.4	1302.3	1289.8	1273.6	1268.1	1268.1
50°	763.8	976.3	1187.1	1179.8	1205.1	1226.7	1217.7	1205.1	1192.5	1172.7	1172.7
52.5°	693.5	888.1	1066.4	1093.4	1133.0	1145.6	1131.2	1118.6	1097.0	1088.0	1080.8
55°	643.1	796.2	956.5	1010.5	1052.0	1068.2	1041.2	1028.5	996.1	990.8	987.2
57.5°	632.3	662.9	855.6	924.1	974.5	972.8	956.5	933.1	906.1	900.7	898.9
60°	580.1	479.2	747.6	828.6	880.8	875.4	861.0	839.4	814.2	810.6	807.0
62.5°	526.0	347.6	625.0	717.0	790.7	788.9	776.4	743.9	725.9	717.0	709.7
65°	446.8	291.8	445.0	596.3	702.6	706.1	679.1	655.7	635.9	625.0	623.2
67.5°	340.5	237.8	300.8	497.2	617.9	614.3	580.1	569.2	544.0	538.6	527.8
70°	252.2	158.6	209.0	403.5	535.0	526.0	499.0	486.3	463.0	450.3	443.1
72.5°	209.0	127.9	153.1	313.4	450.3	439.5	416.1	401.7	381.9	371.1	363.9
75°	169.3	135.1	117.1	232.3	365.6	358.5	336.8	322.4	306.2	291.8	293.6
77.5°	124.3	126.1	93.6	171.1	290.0	279.2	266.6	248.6	241.4	227.0	227.0
80°	93.6	99.1	70.3	117.1	209.0	209.0	198.1	185.5	172.9	165.7	165.7
82.5°	63.0	63.0	52.2	73.9	142.3	136.9	129.7	126.1	118.9	115.3	115.3
85°	28.8	36.0	32.4	45.0	77.4	81.0	81.0	77.4	75.7	72.1	73.9
87.5°	9.0	16.2	19.8	25.2	39.7	41.5	43.2	43.2	43.2	45.0	45.0
90°	16.7	30.2	43.6	46.9	73.7	109.4	127.3	113.2	84.9	63.7	63.7
92.5°	67.0	180.9	294.8	323.3	454.5	629.5	717.0	628.3	451.1	318.3	305.7
95°	160.8	369.2	577.7	629.9	1118.5	1770.0	2095.7	1870.1	1419.0	1080.6	1042.2
97.5°	278.1	462.0	645.9	691.9	1506.6	2592.9	3136.0	2993.5	2708.3	2494.4	2421.5
100°	368.5	535.3	702.1	743.8	1647.9	2853.3	3456.0	3466.4	3487.2	3502.9	3416.0
102.5°	445.6	601.2	756.8	795.8	1712.6	2935.2	3546.5	3728.2	4091.5	4364.0	4289.5
105°	576.3	708.1	839.9	872.8	1760.7	2944.5	3536.4	3943.7	4758.2	5369.1	5329.1
107.5°	710.3	833.2	956.0	986.7	1769.6	2813.4	3335.4	3903.5	5039.6	5891.8	5901.4
110°	800.8	911.7	1022.6	1050.4	1756.2	2697.3	3167.9	3803.0	5073.2	6025.8	6067.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	889.6	995.3	1101.1	1127.5	1756.8	2595.9	3015.4	3665.4	4965.4	5940.4	6004.4
115°	1023.6	1121.1	1218.7	1243.1	1773.0	2479.6	2832.9	3459.0	4711.3	5650.6	5739.4
117.5°	1155.9	1244.5	1333.1	1355.2	1805.8	2406.7	2707.2	3272.3	4402.5	5250.2	5348.7
120°	1232.9	1316.4	1399.7	1420.6	1832.7	2382.2	2656.9	3173.3	4205.9	4980.4	5076.2
122.5°	1308.3	1392.5	1476.6	1497.7	1871.3	2369.4	2618.4	3083.4	4013.3	4710.8	4805.1
125°	1424.0	1500.6	1577.4	1596.5	1923.2	2358.8	2576.5	2971.5	3761.5	4353.9	4440.8
127.5°	1517.7	1595.2	1672.6	1692.0	1975.1	2352.6	2541.3	2880.5	3558.8	4067.5	4140.8
130°	1568.0	1651.4	1734.8	1755.6	2013.0	2356.3	2527.9	2829.8	3433.7	3886.5	3954.3
132.5°	1620.0	1703.3	1786.7	1807.5	2043.7	2358.7	2516.2	2786.5	3327.1	3732.5	3793.2
135°	1697.0	1772.9	1848.9	1867.9	2077.3	2356.6	2496.1	2722.5	3175.1	3514.6	3566.9
137.5°	1775.8	1851.0	1926.2	1945.0	2127.5	2371.0	2492.7	2684.1	3066.8	3353.8	3396.6
140°	1841.1	1910.3	1979.6	1996.9	2158.2	2373.4	2481.0	2646.3	2976.9	3224.8	3264.8
142.5°	1891.3	1955.4	2019.4	2035.4	2183.9	2382.0	2481.0	2626.2	2916.6	3134.4	3168.9
145°	1968.4	2024.3	2080.1	2094.0	2217.4	2382.0	2464.3	2583.0	2820.5	2998.7	3024.7
147.5°	2045.4	2099.8	2154.1	2167.7	2266.6	2398.4	2464.3	2557.7	2744.6	2884.8	2906.4
150°	2095.7	2144.9	2194.1	2206.3	2292.3	2407.0	2464.3	2543.2	2701.1	2819.4	2836.9
152.5°	2147.7	2184.9	2222.1	2231.4	2309.0	2412.5	2464.3	2531.7	2666.4	2767.5	2780.7
155°	2224.8	2252.3	2279.8	2286.7	2345.9	2424.8	2464.3	2517.9	2625.1	2705.5	2714.3
157.5°	2281.7	2308.5	2335.2	2342.0	2382.7	2437.0	2464.3	2506.0	2589.3	2651.9	2658.1
160°	2320.2	2341.1	2361.9	2367.1	2399.5	2442.7	2464.3	2500.0	2571.4	2625.1	2628.6
162.5°	2358.7	2374.4	2389.9	2393.9	2417.3	2448.6	2464.3	2494.4	2554.8	2600.0	2603.3
165°	2400.6	2414.7	2428.9	2432.5	2443.0	2457.2	2464.3	2485.8	2529.0	2561.4	2565.0
167.5°	2439.2	2445.9	2452.5	2454.2	2463.2	2475.1	2481.0	2495.1	2523.4	2544.7	2546.2
170°	2464.3	2471.0	2477.7	2479.4	2479.9	2480.6	2481.0	2495.1	2523.4	2544.7	2544.7
172.5°	2477.7	2479.1	2480.6	2481.0	2481.0	2481.0	2481.0	2492.2	2514.6	2531.3	2530.0
175°	2496.1	2496.1	2496.1	2496.1	2491.1	2484.4	2481.0	2488.1	2502.2	2512.9	2512.9
177.5°	2496.1	2496.1	2496.1	2496.1	2492.2	2487.0	2484.4	2490.0	2501.1	2509.5	2507.9
180°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1952.7	1947.2	1952.7	1949.0	1950.8	1945.4	1929.2	1923.8	1929.2	1934.6	1934.6
5°	1976.0	1972.5	1976.0	1976.0	1974.3	1970.7	1952.7	1949.0	1952.7	1954.5	1950.8
7.5°	1983.3	1977.8	1983.3	1979.6	1979.6	1976.0	1958.0	1954.5	1956.3	1961.6	1956.3
10°	1983.3	1977.8	1983.3	1981.5	1979.6	1976.0	1958.0	1950.8	1950.8	1956.3	1950.8
12.5°	1974.3	1970.7	1974.3	1970.7	1970.7	1967.1	1949.0	1941.8	1943.6	1945.4	1938.3
15°	1959.8	1954.5	1959.8	1956.3	1958.0	1952.7	1932.8	1925.6	1925.6	1929.2	1916.6
17.5°	1938.3	1931.0	1938.3	1936.5	1934.6	1931.0	1913.0	1905.9	1904.0	1905.9	1896.8
20°	1913.0	1907.6	1913.0	1911.2	1911.2	1904.0	1886.0	1877.0	1877.0	1877.0	1868.0
22.5°	1873.4	1868.0	1873.4	1877.0	1877.0	1875.1	1858.9	1846.4	1842.7	1842.7	1832.0
25°	1828.3	1822.9	1828.3	1828.3	1826.5	1828.3	1822.9	1815.8	1810.3	1804.9	1794.1
27.5°	1785.1	1781.5	1785.1	1781.5	1785.1	1779.7	1777.9	1776.1	1768.9	1763.5	1749.1
30°	1741.9	1738.2	1741.9	1738.2	1734.7	1731.1	1722.0	1718.5	1725.7	1722.0	1698.7
32.5°	1687.8	1684.3	1687.8	1687.8	1684.3	1684.3	1669.8	1664.4	1666.3	1677.0	1655.4
35°	1632.0	1626.6	1632.0	1630.2	1632.0	1626.6	1617.6	1615.8	1608.6	1621.2	1605.0
37.5°	1567.2	1561.8	1567.2	1567.2	1567.2	1570.7	1563.6	1558.1	1547.4	1563.6	1550.9
40°	1500.5	1493.3	1500.5	1498.7	1500.5	1504.1	1500.5	1496.9	1486.1	1498.7	1487.9
42.5°	1424.9	1423.0	1424.9	1426.7	1426.7	1433.8	1439.3	1432.1	1428.5	1419.4	1426.7
45°	1343.8	1340.2	1343.8	1347.4	1349.2	1352.8	1369.0	1369.0	1363.6	1349.2	1360.0
47.5°	1257.3	1248.3	1257.3	1268.1	1268.1	1273.6	1289.8	1302.3	1293.4	1275.4	1280.7
50°	1165.4	1167.2	1165.4	1172.7	1172.7	1192.5	1205.1	1217.7	1226.7	1205.1	1179.8
52.5°	1075.4	1073.6	1075.4	1080.8	1088.0	1097.0	1118.6	1131.2	1145.6	1133.0	1093.4
55°	985.3	989.0	985.3	987.2	990.8	996.1	1028.5	1041.2	1068.2	1052.0	1010.5
57.5°	895.2	889.9	895.2	898.9	900.7	906.1	933.1	956.5	972.8	974.5	924.1
60°	790.7	783.6	790.7	807.0	810.6	814.2	839.4	861.0	875.4	880.8	828.6
62.5°	698.9	686.3	698.9	709.7	717.0	725.9	743.9	776.4	788.9	790.7	717.0
65°	601.6	596.3	601.6	623.2	625.0	635.9	655.7	679.1	706.1	702.6	596.3
67.5°	513.4	513.4	513.4	527.8	538.6	544.0	569.2	580.1	614.3	617.9	497.2
70°	432.3	430.6	432.3	443.1	450.3	463.0	486.3	499.0	526.0	535.0	403.5
72.5°	354.9	353.0	354.9	363.9	371.1	381.9	401.7	416.1	439.5	450.3	313.4
75°	286.4	282.8	286.4	293.6	291.8	306.2	322.4	336.8	358.5	365.6	232.3
77.5°	219.8	219.8	219.8	227.0	227.0	241.4	248.6	266.6	279.2	290.0	171.1
80°	163.9	162.1	163.9	165.7	165.7	172.9	185.5	198.1	209.0	209.0	117.1
82.5°	115.3	111.6	115.3	115.3	115.3	118.9	126.1	129.7	136.9	142.3	73.9
85°	72.1	72.1	72.1	73.9	72.1	75.7	77.4	81.0	81.0	77.4	45.0
87.5°	46.8	45.0	46.8	45.0	45.0	43.2	43.2	43.2	41.5	39.7	25.2
90°	63.7	63.7	63.7	63.7	63.7	84.9	113.2	127.3	109.4	73.7	46.9
92.5°	255.0	204.4	255.0	305.7	318.3	451.1	628.3	717.0	629.5	454.5	323.3
95°	888.8	735.4	888.8	1042.2	1080.6	1419.0	1870.1	2095.7	1770.0	1118.5	629.9
97.5°	2129.6	1837.7	2129.6	2421.5	2494.4	2708.3	2993.5	3136.0	2592.9	1506.6	691.9
100°	3068.3	2720.6	3068.3	3416.0	3502.9	3487.2	3466.4	3456.0	2853.3	1647.9	743.8
102.5°	3991.7	3693.9	3991.7	4289.5	4364.0	4091.5	3728.2	3546.5	2935.2	1712.6	795.8
105°	5169.1	5009.0	5169.1	5329.1	5369.1	4758.2	3943.7	3536.4	2944.5	1760.7	872.8
107.5°	5940.2	5978.9	5940.2	5901.4	5891.8	5039.6	3903.5	3335.4	2813.4	1769.6	986.7
110°	6234.3	6401.1	6234.3	6067.5	6025.8	5073.2	3803.0	3167.9	2697.3	1756.2	1050.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6260.6	6516.7	6260.6	6004.4	5940.4	4965.4	3665.4	3015.4	2595.9	1756.8	1127.5
115°	6094.5	6449.6	6094.5	5739.4	5650.6	4711.3	3459.0	2832.9	2479.6	1773.0	1243.1
117.5°	5742.5	6136.4	5742.5	5348.7	5250.2	4402.5	3272.3	2707.2	2406.7	1805.8	1355.2
120°	5458.8	5841.6	5458.8	5076.2	4980.4	4205.9	3173.3	2656.9	2382.2	1832.7	1420.6
122.5°	5182.7	5560.2	5182.7	4805.1	4710.8	4013.3	3083.4	2618.4	2369.4	1871.3	1497.7
125°	4788.6	5136.3	4788.6	4440.8	4353.9	3761.5	2971.5	2576.5	2358.8	1923.2	1596.5
127.5°	4434.2	4727.5	4434.2	4140.8	4067.5	3558.8	2880.5	2541.3	2352.6	1975.1	1692.0
130°	4225.3	4496.3	4225.3	3954.3	3886.5	3433.7	2829.8	2527.9	2356.3	2013.0	1755.6
132.5°	4035.8	4278.5	4035.8	3793.2	3732.5	3327.1	2786.5	2516.2	2358.7	2043.7	1807.5
135°	3776.2	3985.4	3776.2	3566.9	3514.6	3175.1	2722.5	2496.1	2356.6	2077.3	1867.9
137.5°	3567.9	3739.1	3567.9	3396.6	3353.8	3066.8	2684.1	2492.7	2371.0	2127.5	1945.0
140°	3424.9	3585.0	3424.9	3264.8	3224.8	2976.9	2646.3	2481.0	2373.4	2158.2	1996.9
142.5°	3306.6	3444.3	3306.6	3168.9	3134.4	2916.6	2626.2	2481.0	2382.0	2183.9	2035.4
145°	3129.0	3233.2	3129.0	3024.7	2998.7	2820.5	2583.0	2464.3	2382.0	2217.4	2094.0
147.5°	2992.8	3079.1	2992.8	2906.4	2884.8	2744.6	2557.7	2464.3	2398.4	2266.6	2167.7
150°	2906.9	2976.9	2906.9	2836.9	2819.4	2701.1	2543.2	2464.3	2407.0	2292.3	2206.3
152.5°	2833.6	2886.4	2833.6	2780.7	2767.5	2666.4	2531.7	2464.3	2412.5	2309.0	2231.4
155°	2749.2	2784.2	2749.2	2714.3	2705.5	2625.1	2517.9	2464.3	2424.8	2345.9	2286.7
157.5°	2682.6	2707.2	2682.6	2658.1	2651.9	2589.3	2506.0	2464.3	2437.0	2382.7	2342.0
160°	2642.8	2656.9	2642.8	2628.6	2625.1	2571.4	2500.0	2464.3	2442.7	2399.5	2367.1
162.5°	2616.7	2630.2	2616.7	2603.3	2600.0	2554.8	2494.4	2464.3	2448.6	2417.3	2393.9
165°	2579.1	2593.3	2579.1	2565.0	2561.4	2529.0	2485.8	2464.3	2457.2	2443.0	2432.5
167.5°	2552.1	2558.1	2552.1	2546.2	2544.7	2523.4	2495.1	2481.0	2475.1	2463.2	2454.2
170°	2544.7	2544.7	2544.7	2544.7	2544.7	2523.4	2495.1	2481.0	2480.6	2479.9	2479.4
172.5°	2524.8	2519.6	2524.8	2530.0	2531.3	2514.6	2492.2	2481.0	2481.0	2481.0	2481.0
175°	2512.9	2512.9	2512.9	2512.9	2512.9	2502.2	2488.1	2481.0	2484.4	2491.1	2496.1
177.5°	2502.0	2496.1	2502.0	2507.9	2509.5	2501.1	2490.0	2484.4	2487.0	2492.2	2496.1
180°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1931.0	1920.2	1920.2	1902.2	1895.0	1889.6	1880.6	1853.6	1846.4	1839.1	1850.0
5°	1947.2	1927.4	1913.0	1880.6	1853.6	1842.7	1808.5	1743.7	1700.5	1668.1	1650.1
7.5°	1950.8	1925.6	1898.6	1848.2	1783.3	1754.5	1650.1	1531.2	1498.7	1469.9	1451.8
10°	1947.2	1918.4	1880.6	1804.9	1651.9	1601.4	1496.9	1419.4	1399.6	1394.3	1399.6
12.5°	1934.6	1907.6	1855.4	1729.3	1515.0	1480.7	1419.4	1374.4	1370.8	1379.9	1428.5
15°	1913.0	1887.8	1826.5	1628.4	1439.3	1414.1	1370.8	1354.6	1374.4	1437.4	1583.4
17.5°	1891.4	1862.6	1787.0	1529.4	1381.6	1363.6	1332.9	1365.4	1477.1	1561.8	1610.4
20°	1862.6	1828.3	1741.9	1457.3	1340.2	1324.0	1309.6	1455.5	1540.1	1570.7	1597.8
22.5°	1828.3	1792.3	1680.7	1406.8	1296.9	1284.3	1293.4	1505.9	1540.1	1561.8	1585.1
25°	1783.3	1752.7	1608.6	1367.2	1262.7	1248.3	1282.5	1500.5	1520.3	1525.7	1572.5
27.5°	1741.9	1702.3	1533.0	1331.1	1221.3	1215.9	1291.6	1477.1	1491.5	1496.9	1547.4
30°	1691.4	1632.0	1448.3	1293.4	1178.1	1176.3	1293.4	1448.3	1444.7	1459.1	1509.5
32.5°	1639.2	1527.5	1352.8	1246.5	1136.6	1134.8	1280.7	1405.0	1401.4	1421.2	1459.1
35°	1590.6	1446.5	1223.1	1192.5	1084.4	1086.2	1250.1	1354.6	1356.4	1374.4	1397.9
37.5°	1540.1	1376.2	1080.8	1133.0	1034.0	1034.0	1208.7	1307.8	1304.2	1309.6	1342.0
40°	1480.7	1266.3	954.7	1055.6	987.2	981.7	1158.3	1257.3	1244.8	1243.0	1287.9
42.5°	1417.6	1145.6	861.0	952.9	933.1	925.8	1097.0	1196.0	1172.7	1178.1	1235.7
45°	1349.2	1113.2	788.9	805.2	877.2	871.9	1030.3	1125.9	1109.6	1124.1	1183.5
47.5°	1280.7	1048.4	765.6	668.3	817.8	816.0	956.5	1057.4	1048.4	1062.8	1125.9
50°	1187.1	976.3	763.8	572.8	751.2	758.3	868.3	990.8	990.8	1003.4	1070.0
52.5°	1066.4	888.1	693.5	518.7	673.7	695.3	790.7	933.1	936.7	949.3	1008.7
55°	956.5	796.2	643.1	477.4	581.9	628.7	715.1	873.6	880.8	893.4	947.5
57.5°	855.6	662.9	632.3	428.7	497.2	542.2	648.5	816.0	819.6	830.4	882.7
60°	747.6	479.2	580.1	376.5	423.3	457.5	587.2	747.6	760.1	767.4	812.4
62.5°	625.0	347.6	526.0	340.5	387.3	394.5	536.8	682.7	698.9	704.3	731.4
65°	445.0	291.8	446.8	309.9	349.4	351.2	482.8	616.1	630.5	639.4	659.3
67.5°	300.8	237.8	340.5	281.0	320.6	322.4	430.6	538.6	558.4	565.7	578.2
70°	209.0	158.6	252.2	250.4	288.2	291.8	374.7	468.3	486.3	491.8	499.0
72.5°	153.1	127.9	209.0	225.2	254.0	257.6	317.0	389.1	407.1	412.5	416.1
75°	117.1	135.1	169.3	196.3	216.1	217.9	259.4	317.0	329.7	333.2	335.0
77.5°	93.6	126.1	124.3	158.6	176.6	172.9	203.6	245.0	255.8	255.8	255.8
80°	70.3	99.1	93.6	113.5	129.7	126.1	145.9	174.8	178.3	181.9	180.1
82.5°	52.2	63.0	63.0	72.1	86.5	82.9	97.2	113.5	113.5	113.5	117.1
85°	32.4	36.0	28.8	37.9	48.6	46.8	54.1	61.2	63.0	63.0	59.4
87.5°	19.8	16.2	9.0	14.4	21.6	21.6	25.2	27.0	25.2	25.2	25.2
90°	43.6	30.2	16.7	30.2	43.6	46.9	73.7	109.4	127.3	113.2	84.9
92.5°	294.8	180.9	67.0	180.9	294.8	323.3	454.5	629.5	717.0	628.3	451.1
95°	577.7	369.2	160.8	369.2	577.7	629.9	1118.5	1770.0	2095.7	1870.1	1419.0
97.5°	645.9	462.0	278.1	462.0	645.9	691.9	1506.6	2592.9	3136.0	2993.5	2708.3
100°	702.1	535.3	368.5	535.3	702.1	743.8	1647.9	2853.3	3456.0	3466.4	3487.2
102.5°	756.8	601.2	445.6	601.2	756.8	795.8	1712.6	2935.2	3546.5	3728.2	4091.5
105°	839.9	708.1	576.3	708.1	839.9	872.8	1760.7	2944.5	3536.4	3943.7	4758.2
107.5°	956.0	833.2	710.3	833.2	956.0	986.7	1769.6	2813.4	3335.4	3903.5	5039.6
110°	1022.6	911.7	800.8	911.7	1022.6	1050.4	1756.2	2697.3	3167.9	3803.0	5073.2



TEST NUMBER: P935854

CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1101.1	995.3	889.6	995.3	1101.1	1127.5	1756.8	2595.9	3015.4	3665.4	4965.4
115°	1218.7	1121.1	1023.6	1121.1	1218.7	1243.1	1773.0	2479.6	2832.9	3459.0	4711.3
117.5°	1333.1	1244.5	1155.9	1244.5	1333.1	1355.2	1805.8	2406.7	2707.2	3272.3	4402.5
120°	1399.7	1316.4	1232.9	1316.4	1399.7	1420.6	1832.7	2382.2	2656.9	3173.3	4205.9
122.5°	1476.6	1392.5	1308.3	1392.5	1476.6	1497.7	1871.3	2369.4	2618.4	3083.4	4013.3
125°	1577.4	1500.6	1424.0	1500.6	1577.4	1596.5	1923.2	2358.8	2576.5	2971.5	3761.5
127.5°	1672.6	1595.2	1517.7	1595.2	1672.6	1692.0	1975.1	2352.6	2541.3	2880.5	3558.8
130°	1734.8	1651.4	1568.0	1651.4	1734.8	1755.6	2013.0	2356.3	2527.9	2829.8	3433.7
132.5°	1786.7	1703.3	1620.0	1703.3	1786.7	1807.5	2043.7	2358.7	2516.2	2786.5	3327.1
135°	1848.9	1772.9	1697.0	1772.9	1848.9	1867.9	2077.3	2356.6	2496.1	2722.5	3175.1
137.5°	1926.2	1851.0	1775.8	1851.0	1926.2	1945.0	2127.5	2371.0	2492.7	2684.1	3066.8
140°	1979.6	1910.3	1841.1	1910.3	1979.6	1996.9	2158.2	2373.4	2481.0	2646.3	2976.9
142.5°	2019.4	1955.4	1891.3	1955.4	2019.4	2035.4	2183.9	2382.0	2481.0	2626.2	2916.6
145°	2080.1	2024.3	1968.4	2024.3	2080.1	2094.0	2217.4	2382.0	2464.3	2583.0	2820.5
147.5°	2154.1	2099.8	2045.4	2099.8	2154.1	2167.7	2266.6	2398.4	2464.3	2557.7	2744.6
150°	2194.1	2144.9	2095.7	2144.9	2194.1	2206.3	2292.3	2407.0	2464.3	2543.2	2701.1
152.5°	2222.1	2184.9	2147.7	2184.9	2222.1	2231.4	2309.0	2412.5	2464.3	2531.7	2666.4
155°	2279.8	2252.3	2224.8	2252.3	2279.8	2286.7	2345.9	2424.8	2464.3	2517.9	2625.1
157.5°	2335.2	2308.5	2281.7	2308.5	2335.2	2342.0	2382.7	2437.0	2464.3	2506.0	2589.3
160°	2361.9	2341.1	2320.2	2341.1	2361.9	2367.1	2399.5	2442.7	2464.3	2500.0	2571.4
162.5°	2389.9	2374.4	2358.7	2374.4	2389.9	2393.9	2417.3	2448.6	2464.3	2494.4	2554.8
165°	2428.9	2414.7	2400.6	2414.7	2428.9	2432.5	2443.0	2457.2	2464.3	2485.8	2529.0
167.5°	2452.5	2445.9	2439.2	2445.9	2452.5	2454.2	2463.2	2475.1	2481.0	2495.1	2523.4
170°	2477.7	2471.0	2464.3	2471.0	2477.7	2479.4	2479.9	2480.6	2481.0	2495.1	2523.4
172.5°	2480.6	2479.1	2477.7	2479.1	2480.6	2481.0	2481.0	2481.0	2481.0	2492.2	2514.6
175°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2491.1	2484.4	2481.0	2488.1	2502.2
177.5°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2492.2	2487.0	2484.4	2490.0	2501.1
180°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1



TEST NUMBER: P935854
 CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1837.4	1832.0	1839.1	1819.4	1839.1	1832.0	1837.4	1850.0	1839.1	1846.4	1853.6
5°	1612.2	1603.1	1574.4	1550.9	1574.4	1603.1	1612.2	1650.1	1668.1	1700.5	1743.7
7.5°	1441.1	1433.8	1426.7	1412.3	1426.7	1433.8	1441.1	1451.8	1469.9	1498.7	1531.2
10°	1403.2	1405.0	1415.8	1414.1	1415.8	1405.0	1403.2	1399.6	1394.3	1399.6	1419.4
12.5°	1500.5	1516.7	1576.2	1572.5	1576.2	1516.7	1500.5	1428.5	1379.9	1370.8	1374.4
15°	1612.2	1617.6	1630.2	1632.0	1630.2	1617.6	1612.2	1583.4	1437.4	1374.4	1354.6
17.5°	1623.0	1624.8	1633.8	1633.8	1633.8	1624.8	1623.0	1610.4	1561.8	1477.1	1365.4
20°	1614.0	1617.6	1635.6	1639.2	1635.6	1617.6	1614.0	1597.8	1570.7	1540.1	1455.5
22.5°	1610.4	1617.6	1632.0	1630.2	1632.0	1617.6	1610.4	1585.1	1561.8	1540.1	1505.9
25°	1592.4	1592.4	1594.2	1596.0	1594.2	1592.4	1592.4	1572.5	1525.7	1520.3	1500.5
27.5°	1554.5	1558.1	1568.9	1567.2	1568.9	1558.1	1554.5	1547.4	1496.9	1491.5	1477.1
30°	1520.3	1516.7	1507.7	1500.5	1507.7	1516.7	1520.3	1509.5	1459.1	1444.7	1448.3
32.5°	1462.7	1453.6	1444.7	1439.3	1444.7	1453.6	1462.7	1459.1	1421.2	1401.4	1405.0
35°	1394.3	1396.1	1394.3	1388.8	1394.3	1396.1	1394.3	1397.9	1374.4	1356.4	1354.6
37.5°	1345.6	1349.2	1347.4	1340.2	1347.4	1349.2	1345.6	1342.0	1309.6	1304.2	1307.8
40°	1295.2	1296.9	1295.2	1289.8	1295.2	1296.9	1295.2	1287.9	1243.0	1244.8	1257.3
42.5°	1246.5	1244.8	1239.3	1235.7	1239.3	1244.8	1246.5	1235.7	1178.1	1172.7	1196.0
45°	1190.7	1192.5	1181.6	1176.3	1181.6	1192.5	1190.7	1183.5	1124.1	1109.6	1125.9
47.5°	1134.8	1134.8	1125.9	1120.4	1125.9	1134.8	1134.8	1125.9	1062.8	1048.4	1057.4
50°	1075.4	1073.6	1060.9	1059.2	1060.9	1073.6	1075.4	1070.0	1003.4	990.8	990.8
52.5°	1007.0	1007.0	1008.7	1012.3	1008.7	1007.0	1007.0	1008.7	949.3	936.7	933.1
55°	947.5	949.3	961.9	965.5	961.9	949.3	947.5	947.5	893.4	880.8	873.6
57.5°	886.3	886.3	895.2	895.2	895.2	886.3	886.3	882.7	830.4	819.6	816.0
60°	816.0	819.6	826.8	825.0	826.8	819.6	816.0	812.4	767.4	760.1	747.6
62.5°	742.1	745.8	747.6	743.9	747.6	745.8	742.1	731.4	704.3	698.9	682.7
65°	664.7	668.3	670.1	666.5	670.1	668.3	664.7	659.3	639.4	630.5	616.1
67.5°	585.4	583.7	581.9	589.0	581.9	583.7	585.4	578.2	565.7	558.4	538.6
70°	504.3	504.3	502.5	506.2	502.5	504.3	504.3	499.0	491.8	486.3	468.3
72.5°	417.9	416.1	423.3	417.9	423.3	416.1	417.9	416.1	412.5	407.1	389.1
75°	333.2	336.8	333.2	338.6	333.2	336.8	333.2	335.0	333.2	329.7	317.0
77.5°	254.0	257.6	254.0	254.0	254.0	257.6	254.0	255.8	255.8	255.8	245.0
80°	180.1	178.3	178.3	176.6	178.3	178.3	180.1	180.1	181.9	178.3	174.8
82.5°	115.3	113.5	113.5	117.1	113.5	113.5	115.3	117.1	113.5	113.5	113.5
85°	63.0	64.8	61.2	61.2	61.2	64.8	63.0	59.4	63.0	63.0	61.2
87.5°	23.5	21.6	21.6	21.6	21.6	21.6	23.5	25.2	25.2	25.2	27.0
90°	63.7	63.7	63.7	63.7	63.7	63.7	63.7	84.9	113.2	127.3	109.4
92.5°	318.3	305.7	255.0	204.4	255.0	305.7	318.3	451.1	628.3	717.0	629.5
95°	1080.6	1042.2	888.8	735.4	888.8	1042.2	1080.6	1419.0	1870.1	2095.7	1770.0
97.5°	2494.4	2421.5	2129.6	1837.7	2129.6	2421.5	2494.4	2708.3	2993.5	3136.0	2592.9
100°	3502.9	3416.0	3068.3	2720.6	3068.3	3416.0	3502.9	3487.2	3466.4	3456.0	2853.3
102.5°	4364.0	4289.5	3991.7	3693.9	3991.7	4289.5	4364.0	4091.5	3728.2	3546.5	2935.2
105°	5369.1	5329.1	5169.1	5009.0	5169.1	5329.1	5369.1	4758.2	3943.7	3536.4	2944.5
107.5°	5891.8	5901.4	5940.2	5978.9	5940.2	5901.4	5891.8	5039.6	3903.5	3335.4	2813.4
110°	6025.8	6067.5	6234.3	6401.1	6234.3	6067.5	6025.8	5073.2	3803.0	3167.9	2697.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	5940.4	6004.4	6260.6	6516.7	6260.6	6004.4	5940.4	4965.4	3665.4	3015.4	2595.9
115°	5650.6	5739.4	6094.5	6449.6	6094.5	5739.4	5650.6	4711.3	3459.0	2832.9	2479.6
117.5°	5250.2	5348.7	5742.5	6136.4	5742.5	5348.7	5250.2	4402.5	3272.3	2707.2	2406.7
120°	4980.4	5076.2	5458.8	5841.6	5458.8	5076.2	4980.4	4205.9	3173.3	2656.9	2382.2
122.5°	4710.8	4805.1	5182.7	5560.2	5182.7	4805.1	4710.8	4013.3	3083.4	2618.4	2369.4
125°	4353.9	4440.8	4788.6	5136.3	4788.6	4440.8	4353.9	3761.5	2971.5	2576.5	2358.8
127.5°	4067.5	4140.8	4434.2	4727.5	4434.2	4140.8	4067.5	3558.8	2880.5	2541.3	2352.6
130°	3886.5	3954.3	4225.3	4496.3	4225.3	3954.3	3886.5	3433.7	2829.8	2527.9	2356.3
132.5°	3732.5	3793.2	4035.8	4278.5	4035.8	3793.2	3732.5	3327.1	2786.5	2516.2	2358.7
135°	3514.6	3566.9	3776.2	3985.4	3776.2	3566.9	3514.6	3175.1	2722.5	2496.1	2356.6
137.5°	3353.8	3396.6	3567.9	3739.1	3567.9	3396.6	3353.8	3066.8	2684.1	2492.7	2371.0
140°	3224.8	3264.8	3424.9	3585.0	3424.9	3264.8	3224.8	2976.9	2646.3	2481.0	2373.4
142.5°	3134.4	3168.9	3306.6	3444.3	3306.6	3168.9	3134.4	2916.6	2626.2	2481.0	2382.0
145°	2998.7	3024.7	3129.0	3233.2	3129.0	3024.7	2998.7	2820.5	2583.0	2464.3	2382.0
147.5°	2884.8	2906.4	2992.8	3079.1	2992.8	2906.4	2884.8	2744.6	2557.7	2464.3	2398.4
150°	2819.4	2836.9	2906.9	2976.9	2906.9	2836.9	2819.4	2701.1	2543.2	2464.3	2407.0
152.5°	2767.5	2780.7	2833.6	2886.4	2833.6	2780.7	2767.5	2666.4	2531.7	2464.3	2412.5
155°	2705.5	2714.3	2749.2	2784.2	2749.2	2714.3	2705.5	2625.1	2517.9	2464.3	2424.8
157.5°	2651.9	2658.1	2682.6	2707.2	2682.6	2658.1	2651.9	2589.3	2506.0	2464.3	2437.0
160°	2625.1	2628.6	2642.8	2656.9	2642.8	2628.6	2625.1	2571.4	2500.0	2464.3	2442.7
162.5°	2600.0	2603.3	2616.7	2630.2	2616.7	2603.3	2600.0	2554.8	2494.4	2464.3	2448.6
165°	2561.4	2565.0	2579.1	2593.3	2579.1	2565.0	2561.4	2529.0	2485.8	2464.3	2457.2
167.5°	2544.7	2546.2	2552.1	2558.1	2552.1	2546.2	2544.7	2523.4	2495.1	2481.0	2475.1
170°	2544.7	2544.7	2544.7	2544.7	2544.7	2544.7	2544.7	2523.4	2495.1	2481.0	2480.6
172.5°	2531.3	2530.0	2524.8	2519.6	2524.8	2530.0	2531.3	2514.6	2492.2	2481.0	2481.0
175°	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2512.9	2502.2	2488.1	2481.0	2484.4
177.5°	2509.5	2507.9	2502.0	2496.1	2502.0	2507.9	2509.5	2501.1	2490.0	2484.4	2487.0
180°	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1	2496.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1904.0	1904.0	1904.0	1904.0	1904.0
2.5°	1880.6	1889.6	1895.0	1902.2	1920.2
5°	1808.5	1842.7	1853.6	1880.6	1913.0
7.5°	1650.1	1754.5	1783.3	1848.2	1898.6
10°	1496.9	1601.4	1651.9	1804.9	1880.6
12.5°	1419.4	1480.7	1515.0	1729.3	1855.4
15°	1370.8	1414.1	1439.3	1628.4	1826.5
17.5°	1332.9	1363.6	1381.6	1529.4	1787.0
20°	1309.6	1324.0	1340.2	1457.3	1741.9
22.5°	1293.4	1284.3	1296.9	1406.8	1680.7
25°	1282.5	1248.3	1262.7	1367.2	1608.6
27.5°	1291.6	1215.9	1221.3	1331.1	1533.0
30°	1293.4	1176.3	1178.1	1293.4	1448.3
32.5°	1280.7	1134.8	1136.6	1246.5	1352.8
35°	1250.1	1086.2	1084.4	1192.5	1223.1
37.5°	1208.7	1034.0	1034.0	1133.0	1080.8
40°	1158.3	981.7	987.2	1055.6	954.7
42.5°	1097.0	925.8	933.1	952.9	861.0
45°	1030.3	871.9	877.2	805.2	788.9
47.5°	956.5	816.0	817.8	668.3	765.6
50°	868.3	758.3	751.2	572.8	763.8
52.5°	790.7	695.3	673.7	518.7	693.5
55°	715.1	628.7	581.9	477.4	643.1
57.5°	648.5	542.2	497.2	428.7	632.3
60°	587.2	457.5	423.3	376.5	580.1
62.5°	536.8	394.5	387.3	340.5	526.0
65°	482.8	351.2	349.4	309.9	446.8
67.5°	430.6	322.4	320.6	281.0	340.5
70°	374.7	291.8	288.2	250.4	252.2
72.5°	317.0	257.6	254.0	225.2	209.0
75°	259.4	217.9	216.1	196.3	169.3
77.5°	203.6	172.9	176.6	158.6	124.3
80°	145.9	126.1	129.7	113.5	93.6
82.5°	97.2	82.9	86.5	72.1	63.0
85°	54.1	46.8	48.6	37.9	28.8
87.5°	25.2	21.6	21.6	14.4	9.0
90°	73.7	46.9	43.6	30.2	16.7
92.5°	454.5	323.3	294.8	180.9	67.0
95°	1118.5	629.9	577.7	369.2	160.8
97.5°	1506.6	691.9	645.9	462.0	278.1
100°	1647.9	743.8	702.1	535.3	368.5
102.5°	1712.6	795.8	756.8	601.2	445.6
105°	1760.7	872.8	839.9	708.1	576.3
107.5°	1769.6	986.7	956.0	833.2	710.3
110°	1756.2	1050.4	1022.6	911.7	800.8



TEST NUMBER: P935854

CATALOG NUMBER: SQ4-FA-150U-050D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1756.8	1127.5	1101.1	995.3	889.6
115°	1773.0	1243.1	1218.7	1121.1	1023.6
117.5°	1805.8	1355.2	1333.1	1244.5	1155.9
120°	1832.7	1420.6	1399.7	1316.4	1232.9
122.5°	1871.3	1497.7	1476.6	1392.5	1308.3
125°	1923.2	1596.5	1577.4	1500.6	1424.0
127.5°	1975.1	1692.0	1672.6	1595.2	1517.7
130°	2013.0	1755.6	1734.8	1651.4	1568.0
132.5°	2043.7	1807.5	1786.7	1703.3	1620.0
135°	2077.3	1867.9	1848.9	1772.9	1697.0
137.5°	2127.5	1945.0	1926.2	1851.0	1775.8
140°	2158.2	1996.9	1979.6	1910.3	1841.1
142.5°	2183.9	2035.4	2019.4	1955.4	1891.3
145°	2217.4	2094.0	2080.1	2024.3	1968.4
147.5°	2266.6	2167.7	2154.1	2099.8	2045.4
150°	2292.3	2206.3	2194.1	2144.9	2095.7
152.5°	2309.0	2231.4	2222.1	2184.9	2147.7
155°	2345.9	2286.7	2279.8	2252.3	2224.8
157.5°	2382.7	2342.0	2335.2	2308.5	2281.7
160°	2399.5	2367.1	2361.9	2341.1	2320.2
162.5°	2417.3	2393.9	2389.9	2374.4	2358.7
165°	2443.0	2432.5	2428.9	2414.7	2400.6
167.5°	2463.2	2454.2	2452.5	2445.9	2439.2
170°	2479.9	2479.4	2477.7	2471.0	2464.3
172.5°	2481.0	2481.0	2480.6	2479.1	2477.7
175°	2491.1	2496.1	2496.1	2496.1	2496.1
177.5°	2492.2	2496.1	2496.1	2496.1	2496.1
180°	2496.1	2496.1	2496.1	2496.1	2496.1



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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	7.76	8.43	8.92	9.57	11.18	10.61	11.28	11.77	12.42	14.03
	3H	8.22	8.82	9.39	9.97	11.59	11.95	12.55	13.11	13.70	15.32
	4H	8.41	8.97	9.58	10.12	11.75	12.39	12.96	13.56	14.11	15.73
	6H	8.51	9.03	9.69	10.19	11.82	12.67	13.19	13.85	14.34	15.98
	8H	8.51	9.00	9.69	10.17	11.80	12.74	13.24	13.92	14.40	16.03
	12H	8.47	8.94	9.66	10.10	11.76	12.78	13.25	13.96	14.41	16.06
4H	2H	8.78	9.34	9.96	10.49	12.12	11.00	11.56	12.18	12.71	14.34
	3H	9.78	10.26	10.97	11.43	13.07	12.49	12.96	13.68	14.14	15.78
	4H	10.05	10.49	11.24	11.65	13.31	13.01	13.45	14.20	14.61	16.27
	6H	10.16	10.54	11.36	11.72	13.37	13.37	13.75	14.57	14.93	16.58
	8H	10.17	10.51	11.36	11.69	13.35	13.48	13.83	14.67	15.00	16.67
	12H	10.12	10.44	11.33	11.63	13.29	13.53	13.84	14.74	15.03	16.70
8H	4H	10.49	10.84	11.68	12.02	13.68	13.12	13.47	14.31	14.65	16.31
	6H	10.75	11.03	11.95	12.25	13.91	13.56	13.84	14.77	15.06	16.72
	8H	10.79	11.03	12.00	12.23	13.91	13.71	13.96	14.92	15.16	16.84
	12H	10.76	10.98	11.98	12.18	13.89	13.80	14.02	15.02	15.22	16.93
12H	4H	10.49	10.80	11.69	11.99	13.66	13.08	13.39	14.28	14.58	16.25
	6H	10.81	11.05	12.02	12.25	13.93	13.55	13.80	14.77	15.00	16.68
	8H	10.86	11.08	12.08	12.28	13.99	13.71	13.93	14.92	15.12	16.83