

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: P936047

Luminaire Tested: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P936047
REPORT IS A COMBINATION OF REPORTS P933780 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

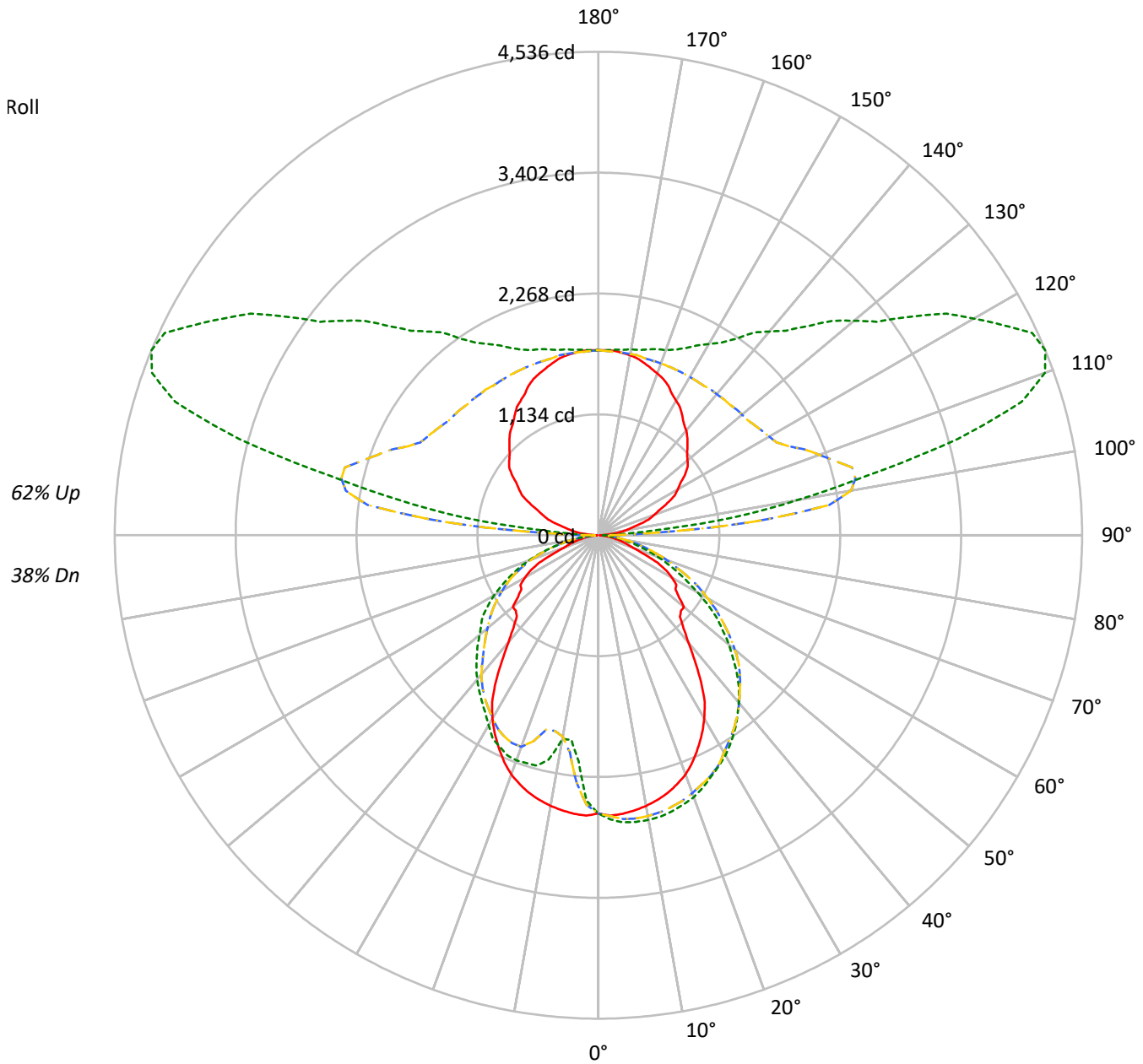
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18038.0 lumens
Efficiency: N/A
Efficacy: 124.6 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 144.8
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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12113	12113	12113	12113
5°	12203	12227	12203	9614
10°	12122	12044	12122	8611
15°	11990	11784	11990	9840
20°	11740	11475	11740	9860
25°	11226	11024	11226	9651
30°	10562	10649	10562	9193
35°	9416	10176	9416	8688
40°	7846	9618	7846	8307
45°	7011	8966	7011	7869
50°	7448	8188	7448	7430
55°	7008	7349	7008	7175
60°	7223	6242	7223	6572
65°	6549	5160	6549	5768
70°	4534	4113	4534	4834
75°	3977	3040	3977	3640
80°	3204	2010	3204	2189
85°	1840	1064	1840	904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10745 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.7	1.3
10°-20°	669.1	3.7
20°-30°	1034.3	5.7
30°-40°	1234.8	6.8
40°-50°	1242.0	6.9
50°-60°	1080.7	6.0
60°-70°	766.2	4.2
70°-80°	405.4	2.2
80°-90°	107.6	0.6
90°-100°	846.9	4.7
100°-110°	2226.4	12.3
110°-120°	2308.5	12.8
120°-130°	1851.7	10.3
130°-140°	1452.9	8.1
140°-150°	1115.2	6.2
150°-160°	803.1	4.5
160°-170°	491.4	2.7
170°-180°	166.0	0.9
0°-30°	1939.1	10.8
0°-40°	3173.9	17.6
0°-60°	5496.6	30.5
0°-90°	6775.8	37.6
90°-120°	5381.8	29.8
90°-150°	9801.7	54.3
90°-180°	11262.0	62.4
0°-180°	18038.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2611	2611	2611	2611	2611	
5°	2623	2705	2623	2127	2623	249
15°	2504	2680	2504	2238	2504	705
25°	2206	2500	2206	2188	2206	1013
35°	1677	2230	1677	1904	1677	1038
45°	1082	1838	1082	1613	1082	867
55°	882	1356	882	1324	882	810
65°	612	818	612	914	612	585
75°	232	388	232	464	232	244
85°	40	99	40	84	40	53
90°	12	44	12	44	12	11
95°	112	512	112	512	112	124
105°	401	3486	401	3486	401	425
115°	712	4489	712	4489	712	704
125°	991	3575	991	3575	991	880
135°	1181	2774	1181	2774	1181	914
145°	1370	2250	1370	2250	1370	858
155°	1548	1938	1548	1938	1548	711
165°	1671	1805	1671	1805	1671	472
175°	1737	1749	1737	1749	1737	165
180°	1737	1737	1737	1737	1737	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2633.0	2633.0	2647.7	2652.7	2652.7	2645.3	2637.9	2645.3	2667.6	2674.9	2672.5
5°	2623.1	2642.8	2670.0	2674.9	2679.9	2677.4	2672.5	2677.4	2702.1	2707.1	2709.5
7.5°	2603.3	2640.4	2674.9	2682.3	2689.8	2682.3	2679.9	2684.8	2709.5	2714.5	2714.5
10°	2578.6	2630.4	2670.0	2674.9	2682.3	2674.9	2674.9	2684.8	2709.5	2714.5	2716.9
12.5°	2544.0	2615.7	2652.7	2657.6	2667.6	2665.0	2662.6	2672.5	2697.2	2702.1	2702.1
15°	2504.5	2588.5	2623.1	2628.0	2645.3	2640.4	2640.4	2650.3	2677.4	2684.8	2682.3
17.5°	2450.1	2553.9	2593.4	2600.8	2613.2	2610.7	2613.2	2623.1	2647.7	2652.7	2655.2
20°	2388.5	2507.0	2553.9	2561.3	2573.7	2573.7	2573.7	2586.1	2610.7	2620.6	2620.6
22.5°	2304.4	2457.6	2507.0	2511.9	2526.7	2526.7	2531.7	2548.9	2571.2	2573.7	2573.7
25°	2205.6	2403.2	2445.2	2460.1	2474.9	2482.3	2489.7	2499.6	2507.0	2504.5	2507.0
27.5°	2101.9	2334.1	2388.5	2398.3	2418.1	2425.5	2435.4	2437.8	2440.3	2447.7	2442.8
30°	1985.8	2237.8	2319.3	2329.2	2361.3	2366.2	2356.3	2361.3	2373.6	2378.5	2383.5
32.5°	1854.9	2094.5	2247.7	2269.8	2299.5	2284.7	2282.2	2289.7	2309.4	2309.4	2314.3
35°	1677.0	1983.4	2180.9	2200.7	2222.9	2205.6	2215.5	2218.0	2230.4	2237.8	2235.3
37.5°	1482.0	1887.0	2111.8	2126.6	2143.9	2121.7	2136.5	2143.9	2153.7	2148.9	2148.9
40°	1309.1	1736.4	2030.3	2040.2	2055.0	2037.7	2052.5	2057.5	2062.4	2057.5	2055.0
42.5°	1180.6	1570.9	1943.8	1956.2	1946.3	1958.7	1963.6	1973.4	1966.1	1956.2	1956.2
45°	1081.8	1526.4	1850.0	1864.8	1850.0	1869.8	1877.2	1877.2	1854.9	1850.0	1847.5
47.5°	1049.8	1437.5	1756.1	1756.1	1748.7	1773.4	1785.8	1768.5	1746.2	1738.8	1738.8
50°	1047.2	1338.7	1627.7	1617.8	1652.4	1682.0	1669.7	1652.4	1635.1	1607.9	1607.9
52.5°	951.0	1217.6	1462.2	1499.3	1553.6	1570.9	1551.1	1533.9	1504.2	1491.9	1482.0
55°	881.8	1091.7	1311.6	1385.6	1442.4	1464.7	1427.6	1410.4	1365.9	1358.5	1353.5
57.5°	866.9	908.9	1173.2	1267.1	1336.3	1333.7	1311.6	1279.4	1242.4	1234.9	1232.5
60°	795.3	657.0	1025.0	1136.1	1207.8	1200.3	1180.6	1151.0	1116.4	1111.5	1106.5
62.5°	721.2	476.7	857.0	983.0	1084.3	1081.8	1064.5	1020.0	995.4	983.0	973.1
65°	612.5	400.1	610.1	817.6	963.3	968.2	931.2	899.1	871.9	857.0	854.6
67.5°	466.8	326.0	412.5	681.7	847.2	842.3	795.3	780.5	745.9	738.5	723.6
70°	345.7	217.3	286.5	553.3	733.6	721.2	684.2	666.9	634.8	617.5	607.6
72.5°	286.5	175.4	209.9	429.8	617.5	602.7	570.5	550.8	523.6	508.8	498.9
75°	232.2	185.3	160.6	318.6	501.4	491.6	461.8	442.1	419.9	400.1	402.6
77.5°	170.4	172.9	128.4	234.6	397.6	382.9	365.6	340.9	331.0	311.3	311.3
80°	128.4	135.8	96.4	160.6	286.5	286.5	271.7	254.4	237.1	227.2	227.2
82.5°	86.5	86.5	71.6	101.2	195.2	187.7	177.9	172.9	163.0	158.1	158.1
85°	39.5	49.4	44.5	61.8	106.2	111.1	111.1	106.2	103.8	98.8	101.2
87.5°	12.3	22.2	27.2	34.6	54.3	56.8	59.3	59.3	59.3	61.8	61.8
90°	11.7	21.0	30.3	32.6	51.3	76.2	88.6	78.8	59.1	44.3	44.3
92.5°	46.6	125.9	205.3	225.1	316.4	438.2	499.0	437.3	314.1	221.5	212.7
95°	112.0	257.0	402.1	438.4	778.4	1231.8	1458.6	1301.6	987.6	752.1	725.3
97.5°	193.6	321.5	449.6	481.6	1048.6	1804.7	2182.7	2083.5	1885.0	1736.1	1685.4
100°	256.5	372.6	488.7	517.7	1147.0	1985.9	2405.4	2412.7	2427.2	2438.0	2377.5
102.5°	310.1	418.5	526.7	553.8	1192.0	2042.9	2468.4	2594.8	2847.7	3037.3	2985.5
105°	401.1	492.8	584.6	607.5	1225.4	2049.3	2461.4	2744.9	3311.8	3737.0	3709.1
107.5°	494.4	579.9	665.3	686.7	1231.7	1958.2	2321.4	2716.8	3507.7	4100.7	4107.5
110°	557.4	634.6	711.8	731.0	1222.3	1877.4	2204.9	2646.9	3530.9	4194.0	4223.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	619.1	692.7	766.3	784.7	1222.7	1806.7	2098.7	2551.1	3455.9	4134.5	4179.1
115°	712.4	780.3	848.2	865.2	1234.0	1725.7	1971.7	2407.4	3279.0	3932.8	3994.6
117.5°	804.5	866.2	927.9	943.3	1256.9	1675.1	1884.2	2277.5	3064.2	3654.1	3722.7
120°	858.2	916.2	974.2	988.7	1275.6	1658.0	1849.2	2208.6	2927.4	3466.5	3533.0
122.5°	910.6	969.2	1027.7	1042.4	1302.4	1649.1	1822.4	2146.0	2793.3	3278.7	3344.4
125°	991.1	1044.4	1097.8	1111.2	1338.5	1641.6	1793.2	2068.1	2617.9	3030.3	3090.8
127.5°	1056.4	1110.2	1164.2	1177.6	1374.7	1637.4	1768.7	2004.8	2476.9	2830.9	2882.0
130°	1091.4	1149.4	1207.5	1221.9	1401.1	1639.9	1759.4	1969.5	2389.9	2705.0	2752.2
132.5°	1127.5	1185.6	1243.6	1258.1	1422.5	1641.7	1751.3	1939.3	2315.5	2597.7	2640.0
135°	1181.1	1234.0	1286.9	1300.1	1445.8	1640.1	1737.2	1894.8	2209.9	2446.2	2482.6
137.5°	1236.0	1288.3	1340.6	1353.6	1480.8	1650.2	1735.0	1868.2	2134.5	2334.2	2364.1
140°	1281.4	1329.6	1377.8	1389.8	1502.2	1651.9	1726.8	1841.8	2072.0	2244.5	2272.4
142.5°	1316.3	1360.9	1405.5	1416.6	1520.0	1657.9	1726.8	1827.8	2029.9	2181.5	2205.4
145°	1370.0	1408.9	1447.8	1457.5	1543.4	1657.9	1715.1	1797.7	1963.1	2087.1	2105.2
147.5°	1423.7	1461.5	1499.4	1508.8	1577.6	1669.3	1715.1	1780.1	1910.2	2007.7	2022.8
150°	1458.6	1492.8	1527.0	1535.5	1595.4	1675.2	1715.1	1770.1	1879.9	1962.3	1974.5
152.5°	1494.8	1520.7	1546.7	1553.1	1607.1	1679.1	1715.1	1762.0	1855.8	1926.1	1935.3
155°	1548.4	1567.6	1586.8	1591.5	1632.7	1687.6	1715.1	1752.4	1827.1	1883.1	1889.1
157.5°	1588.1	1606.8	1625.4	1630.0	1658.4	1696.2	1715.1	1744.2	1802.2	1845.8	1850.1
160°	1614.9	1629.4	1643.9	1647.5	1670.0	1700.0	1715.1	1740.0	1789.8	1827.1	1829.5
162.5°	1641.7	1652.6	1663.5	1666.2	1682.5	1704.2	1715.1	1736.1	1778.1	1809.6	1811.9
165°	1670.8	1680.6	1690.5	1692.9	1700.3	1710.1	1715.1	1730.1	1760.2	1782.8	1785.2
167.5°	1697.6	1702.3	1707.0	1708.2	1714.3	1722.7	1726.8	1736.6	1756.3	1771.1	1772.1
170°	1715.1	1719.8	1724.4	1725.7	1726.0	1726.5	1726.8	1736.6	1756.3	1771.1	1771.1
172.5°	1724.4	1725.5	1726.5	1726.8	1726.8	1726.8	1726.8	1734.5	1750.1	1761.7	1760.8
175°	1737.2	1737.2	1737.2	1737.2	1733.8	1729.1	1726.8	1731.7	1741.5	1748.9	1748.9
177.5°	1737.2	1737.2	1737.2	1737.2	1734.5	1730.9	1729.1	1733.0	1740.8	1746.6	1745.6
180°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2677.4	2670.0	2677.4	2672.5	2674.9	2667.6	2645.3	2637.9	2645.3	2652.7	2652.7
5°	2709.5	2704.6	2709.5	2709.5	2707.1	2702.1	2677.4	2672.5	2677.4	2679.9	2674.9
7.5°	2719.4	2712.0	2719.4	2714.5	2714.5	2709.5	2684.8	2679.9	2682.3	2689.8	2682.3
10°	2719.4	2712.0	2719.4	2716.9	2714.5	2709.5	2684.8	2674.9	2674.9	2682.3	2674.9
12.5°	2707.1	2702.1	2707.1	2702.1	2702.1	2697.2	2672.5	2662.6	2665.0	2667.6	2657.6
15°	2687.3	2679.9	2687.3	2682.3	2684.8	2677.4	2650.3	2640.4	2640.4	2645.3	2628.0
17.5°	2657.6	2647.7	2657.6	2655.2	2652.7	2647.7	2623.1	2613.2	2610.7	2613.2	2600.8
20°	2623.1	2615.7	2623.1	2620.6	2620.6	2610.7	2586.1	2573.7	2573.7	2573.7	2561.3
22.5°	2568.8	2561.3	2568.8	2573.7	2573.7	2571.2	2548.9	2531.7	2526.7	2526.7	2511.9
25°	2507.0	2499.6	2507.0	2507.0	2504.5	2507.0	2499.6	2489.7	2482.3	2474.9	2460.1
27.5°	2447.7	2442.8	2447.7	2442.8	2447.7	2440.3	2437.8	2435.4	2425.5	2418.1	2398.3
30°	2388.5	2383.5	2388.5	2383.5	2378.5	2373.6	2361.3	2356.3	2366.2	2361.3	2329.2
32.5°	2314.3	2309.4	2314.3	2314.3	2309.4	2309.4	2289.7	2282.2	2284.7	2299.5	2269.8
35°	2237.8	2230.4	2237.8	2235.3	2237.8	2230.4	2218.0	2215.5	2205.6	2222.9	2200.7
37.5°	2148.9	2141.4	2148.9	2148.9	2148.9	2153.7	2143.9	2136.5	2121.7	2143.9	2126.6
40°	2057.5	2047.6	2057.5	2055.0	2057.5	2062.4	2057.5	2052.5	2037.7	2055.0	2040.2
42.5°	1953.7	1951.3	1953.7	1956.2	1956.2	1966.1	1973.4	1963.6	1958.7	1946.3	1956.2
45°	1842.6	1837.6	1842.6	1847.5	1850.0	1854.9	1877.2	1877.2	1869.8	1850.0	1864.8
47.5°	1724.0	1711.6	1724.0	1738.8	1738.8	1746.2	1768.5	1785.8	1773.4	1748.7	1756.1
50°	1598.1	1600.5	1598.1	1607.9	1607.9	1635.1	1652.4	1669.7	1682.0	1652.4	1617.8
52.5°	1474.6	1472.1	1474.6	1482.0	1491.9	1504.2	1533.9	1551.1	1570.9	1553.6	1499.3
55°	1351.0	1356.0	1351.0	1353.5	1358.5	1365.9	1410.4	1427.6	1464.7	1442.4	1385.6
57.5°	1227.5	1220.2	1227.5	1232.5	1234.9	1242.4	1279.4	1311.6	1333.7	1336.3	1267.1
60°	1084.3	1074.4	1084.3	1106.5	1111.5	1116.4	1151.0	1180.6	1200.3	1207.8	1136.1
62.5°	958.4	941.1	958.4	973.1	983.0	995.4	1020.0	1064.5	1081.8	1084.3	983.0
65°	825.0	817.6	825.0	854.6	857.0	871.9	899.1	931.2	968.2	963.3	817.6
67.5°	703.9	703.9	703.9	723.6	738.5	745.9	780.5	795.3	842.3	847.2	681.7
70°	592.8	590.4	592.8	607.6	617.5	634.8	666.9	684.2	721.2	733.6	553.3
72.5°	486.6	484.1	486.6	498.9	508.8	523.6	550.8	570.5	602.7	617.5	429.8
75°	392.8	387.8	392.8	402.6	400.1	419.9	442.1	461.8	491.6	501.4	318.6
77.5°	301.3	301.3	301.3	311.3	311.3	331.0	340.9	365.6	382.9	397.6	234.6
80°	224.8	222.3	224.8	227.2	227.2	237.1	254.4	271.7	286.5	286.5	160.6
82.5°	158.1	153.1	158.1	158.1	158.1	163.0	172.9	177.9	187.7	195.2	101.2
85°	98.8	98.8	98.8	101.2	98.8	103.8	106.2	111.1	111.1	106.2	61.8
87.5°	64.2	61.8	64.2	61.8	61.8	59.3	59.3	59.3	56.8	54.3	34.6
90°	44.3	44.3	44.3	44.3	44.3	59.1	78.8	88.6	76.2	51.3	32.6
92.5°	177.5	142.3	177.5	212.7	221.5	314.1	437.3	499.0	438.2	316.4	225.1
95°	618.6	511.8	618.6	725.3	752.1	987.6	1301.6	1458.6	1231.8	778.4	438.4
97.5°	1482.2	1279.1	1482.2	1685.4	1736.1	1885.0	2083.5	2182.7	1804.7	1048.6	481.6
100°	2135.5	1893.5	2135.5	2377.5	2438.0	2427.2	2412.7	2405.4	1985.9	1147.0	517.7
102.5°	2778.2	2571.0	2778.2	2985.5	3037.3	2847.7	2594.8	2468.4	2042.9	1192.0	553.8
105°	3597.7	3486.3	3597.7	3709.1	3737.0	3311.8	2744.9	2461.4	2049.3	1225.4	607.5
107.5°	4134.4	4161.3	4134.4	4107.5	4100.7	3507.7	2716.8	2321.4	1958.2	1231.7	686.7
110°	4339.1	4455.2	4339.1	4223.0	4194.0	3530.9	2646.9	2204.9	1877.4	1222.3	731.0



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4357.3	4535.6	4357.3	4179.1	4134.5	3455.9	2551.1	2098.7	1806.7	1222.7	784.7
115°	4241.8	4488.9	4241.8	3994.6	3932.8	3279.0	2407.4	1971.7	1725.7	1234.0	865.2
117.5°	3996.8	4271.0	3996.8	3722.7	3654.1	3064.2	2277.5	1884.2	1675.1	1256.9	943.3
120°	3799.4	4065.7	3799.4	3533.0	3466.5	2927.4	2208.6	1849.2	1658.0	1275.6	988.7
122.5°	3607.1	3869.9	3607.1	3344.4	3278.7	2793.3	2146.0	1822.4	1649.1	1302.4	1042.4
125°	3332.9	3574.9	3332.9	3090.8	3030.3	2617.9	2068.1	1793.2	1641.6	1338.5	1111.2
127.5°	3086.2	3290.4	3086.2	2882.0	2830.9	2476.9	2004.8	1768.7	1637.4	1374.7	1177.6
130°	2940.9	3129.5	2940.9	2752.2	2705.0	2389.9	1969.5	1759.4	1639.9	1401.1	1221.9
132.5°	2808.9	2977.9	2808.9	2640.0	2597.7	2315.5	1939.3	1751.3	1641.7	1422.5	1258.1
135°	2628.2	2773.8	2628.2	2482.6	2446.2	2209.9	1894.8	1737.2	1640.1	1445.8	1300.1
137.5°	2483.2	2602.4	2483.2	2364.1	2334.2	2134.5	1868.2	1735.0	1650.2	1480.8	1353.6
140°	2383.8	2495.2	2383.8	2272.4	2244.5	2072.0	1841.8	1726.8	1651.9	1502.2	1389.8
142.5°	2301.3	2397.2	2301.3	2205.4	2181.5	2029.9	1827.8	1726.8	1657.9	1520.0	1416.6
145°	2177.8	2250.3	2177.8	2105.2	2087.1	1963.1	1797.7	1715.1	1657.9	1543.4	1457.5
147.5°	2082.9	2143.0	2082.9	2022.8	2007.7	1910.2	1780.1	1715.1	1669.3	1577.6	1508.8
150°	2023.3	2072.0	2023.3	1974.5	1962.3	1879.9	1770.1	1715.1	1675.2	1595.4	1535.5
152.5°	1972.1	2009.0	1972.1	1935.3	1926.1	1855.8	1762.0	1715.1	1679.1	1607.1	1553.1
155°	1913.5	1937.8	1913.5	1889.1	1883.1	1827.1	1752.4	1715.1	1687.6	1632.7	1591.5
157.5°	1867.1	1884.2	1867.1	1850.1	1845.8	1802.2	1744.2	1715.1	1696.2	1658.4	1630.0
160°	1839.4	1849.2	1839.4	1829.5	1827.1	1789.8	1740.0	1715.1	1700.0	1670.0	1647.5
162.5°	1821.2	1830.5	1821.2	1811.9	1809.6	1778.1	1736.1	1715.1	1704.2	1682.5	1666.2
165°	1795.1	1804.9	1795.1	1785.2	1782.8	1760.2	1730.1	1715.1	1710.1	1700.3	1692.9
167.5°	1776.3	1780.4	1776.3	1772.1	1771.1	1756.3	1736.6	1726.8	1722.7	1714.3	1708.2
170°	1771.1	1771.1	1771.1	1771.1	1771.1	1756.3	1736.6	1726.8	1726.5	1726.0	1725.7
172.5°	1757.2	1753.6	1757.2	1760.8	1761.7	1750.1	1734.5	1726.8	1726.8	1726.8	1726.8
175°	1748.9	1748.9	1748.9	1748.9	1748.9	1741.5	1731.7	1726.8	1729.1	1733.8	1737.2
177.5°	1741.4	1737.2	1741.4	1745.6	1746.6	1740.8	1733.0	1729.1	1730.9	1734.5	1737.2
180°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2



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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2647.7	2633.0	2633.0	2608.3	2598.4	2591.0	2578.6	2541.6	2531.7	2521.8	2536.6
5°	2670.0	2642.8	2623.1	2578.6	2541.6	2526.7	2479.8	2390.9	2331.6	2287.1	2262.5
7.5°	2674.9	2640.4	2603.3	2534.2	2445.2	2405.7	2262.5	2099.4	2055.0	2015.5	1990.7
10°	2670.0	2630.4	2578.6	2474.9	2264.9	2195.8	2052.5	1946.3	1919.1	1911.8	1919.1
12.5°	2652.7	2615.7	2544.0	2371.2	2077.2	2030.3	1946.3	1884.6	1879.6	1891.9	1958.7
15°	2623.1	2588.5	2504.5	2232.8	1973.4	1938.9	1879.6	1857.4	1884.6	1971.0	2171.0
17.5°	2593.4	2553.9	2450.1	2097.0	1894.5	1869.8	1827.7	1872.2	2025.3	2141.4	2208.1
20°	2553.9	2507.0	2388.5	1998.2	1837.6	1815.4	1795.7	1995.7	2111.8	2153.7	2190.9
22.5°	2507.0	2457.6	2304.4	1929.0	1778.4	1761.1	1773.4	2064.9	2111.8	2141.4	2173.6
25°	2445.2	2403.2	2205.6	1874.6	1731.4	1711.6	1758.6	2057.5	2084.6	2092.1	2156.3
27.5°	2388.5	2334.1	2101.9	1825.3	1674.6	1667.2	1771.0	2025.3	2045.1	2052.5	2121.7
30°	2319.3	2237.8	1985.8	1773.4	1615.4	1612.8	1773.4	1985.8	1980.9	2000.6	2069.8
32.5°	2247.7	2094.5	1854.9	1709.2	1558.5	1556.1	1756.1	1926.5	1921.6	1948.8	2000.6
35°	2180.9	1983.4	1677.0	1635.1	1486.9	1489.4	1714.2	1857.4	1859.9	1884.6	1916.7
37.5°	2111.8	1887.0	1482.0	1553.6	1417.8	1417.8	1657.3	1793.1	1788.3	1795.7	1840.1
40°	2030.3	1736.4	1309.1	1447.4	1353.5	1346.1	1588.2	1724.0	1706.7	1704.2	1766.0
42.5°	1943.8	1570.9	1180.6	1306.6	1279.4	1269.5	1504.2	1640.0	1607.9	1615.4	1694.3
45°	1850.0	1526.4	1081.8	1104.1	1202.9	1195.5	1412.8	1543.7	1521.5	1541.2	1622.7
47.5°	1756.1	1437.5	1049.8	916.4	1121.4	1118.8	1311.6	1449.8	1437.5	1457.3	1543.7
50°	1627.7	1338.7	1047.2	785.4	1030.0	1039.9	1190.5	1358.5	1358.5	1375.8	1467.1
52.5°	1462.2	1217.6	951.0	711.3	923.8	953.4	1084.3	1279.4	1284.4	1301.7	1383.2
55°	1311.6	1091.7	881.8	654.6	797.8	862.0	980.6	1197.9	1207.8	1225.1	1299.1
57.5°	1173.2	908.9	866.9	587.8	681.7	743.5	889.2	1118.8	1123.8	1138.7	1210.3
60°	1025.0	657.0	795.3	516.2	580.5	627.4	805.2	1025.0	1042.3	1052.2	1114.0
62.5°	857.0	476.7	721.2	466.8	531.0	540.9	736.1	936.1	958.4	965.7	1002.8
65°	610.1	400.1	612.5	424.8	479.1	481.7	662.0	844.7	864.5	876.8	904.0
67.5°	412.5	326.0	466.8	385.3	439.7	442.1	590.4	738.5	765.7	775.5	792.8
70°	286.5	217.3	345.7	343.3	395.2	400.1	513.7	642.1	666.9	674.3	684.2
72.5°	209.9	175.4	286.5	308.7	348.3	353.2	434.7	533.5	558.2	565.6	570.5
75°	160.6	185.3	232.2	269.2	296.4	298.8	355.7	434.7	452.0	457.0	459.4
77.5°	128.4	172.9	170.4	217.3	242.1	237.1	279.1	335.9	350.7	350.7	350.7
80°	96.4	135.8	128.4	155.6	177.9	172.9	200.0	239.6	244.5	249.5	246.9
82.5°	71.6	86.5	86.5	98.8	118.5	113.7	133.4	155.6	155.6	155.6	160.6
85°	44.5	49.4	39.5	51.9	66.6	64.2	74.1	83.9	86.5	86.5	81.5
87.5°	27.2	22.2	12.3	19.7	29.6	29.6	34.6	37.0	34.6	34.6	34.6
90°	30.3	21.0	11.7	21.0	30.3	32.6	51.3	76.2	88.6	78.8	59.1
92.5°	205.3	125.9	46.6	125.9	205.3	225.1	316.4	438.2	499.0	437.3	314.1
95°	402.1	257.0	112.0	257.0	402.1	438.4	778.4	1231.8	1458.6	1301.6	987.6
97.5°	449.6	321.5	193.6	321.5	449.6	481.6	1048.6	1804.7	2182.7	2083.5	1885.0
100°	488.7	372.6	256.5	372.6	488.7	517.7	1147.0	1985.9	2405.4	2412.7	2427.2
102.5°	526.7	418.5	310.1	418.5	526.7	553.8	1192.0	2042.9	2468.4	2594.8	2847.7
105°	584.6	492.8	401.1	492.8	584.6	607.5	1225.4	2049.3	2461.4	2744.9	3311.8
107.5°	665.3	579.9	494.4	579.9	665.3	686.7	1231.7	1958.2	2321.4	2716.8	3507.7
110°	711.8	634.6	557.4	634.6	711.8	731.0	1222.3	1877.4	2204.9	2646.9	3530.9



TEST NUMBER: P936047

CATALOG NUMBER: SQ4-FA-150U-100D-92765-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	766.3	692.7	619.1	692.7	766.3	784.7	1222.7	1806.7	2098.7	2551.1	3455.9
115°	848.2	780.3	712.4	780.3	848.2	865.2	1234.0	1725.7	1971.7	2407.4	3279.0
117.5°	927.9	866.2	804.5	866.2	927.9	943.3	1256.9	1675.1	1884.2	2277.5	3064.2
120°	974.2	916.2	858.2	916.2	974.2	988.7	1275.6	1658.0	1849.2	2208.6	2927.4
122.5°	1027.7	969.2	910.6	969.2	1027.7	1042.4	1302.4	1649.1	1822.4	2146.0	2793.3
125°	1097.8	1044.4	991.1	1044.4	1097.8	1111.2	1338.5	1641.6	1793.2	2068.1	2617.9
127.5°	1164.2	1110.2	1056.4	1110.2	1164.2	1177.6	1374.7	1637.4	1768.7	2004.8	2476.9
130°	1207.5	1149.4	1091.4	1149.4	1207.5	1221.9	1401.1	1639.9	1759.4	1969.5	2389.9
132.5°	1243.6	1185.6	1127.5	1185.6	1243.6	1258.1	1422.5	1641.7	1751.3	1939.3	2315.5
135°	1286.9	1234.0	1181.1	1234.0	1286.9	1300.1	1445.8	1640.1	1737.2	1894.8	2209.9
137.5°	1340.6	1288.3	1236.0	1288.3	1340.6	1353.6	1480.8	1650.2	1735.0	1868.2	2134.5
140°	1377.8	1329.6	1281.4	1329.6	1377.8	1389.8	1502.2	1651.9	1726.8	1841.8	2072.0
142.5°	1405.5	1360.9	1316.3	1360.9	1405.5	1416.6	1520.0	1657.9	1726.8	1827.8	2029.9
145°	1447.8	1408.9	1370.0	1408.9	1447.8	1457.5	1543.4	1657.9	1715.1	1797.7	1963.1
147.5°	1499.4	1461.5	1423.7	1461.5	1499.4	1508.8	1577.6	1669.3	1715.1	1780.1	1910.2
150°	1527.0	1492.8	1458.6	1492.8	1527.0	1535.5	1595.4	1675.2	1715.1	1770.1	1879.9
152.5°	1546.7	1520.7	1494.8	1520.7	1546.7	1553.1	1607.1	1679.1	1715.1	1762.0	1855.8
155°	1586.8	1567.6	1548.4	1567.6	1586.8	1591.5	1632.7	1687.6	1715.1	1752.4	1827.1
157.5°	1625.4	1606.8	1588.1	1606.8	1625.4	1630.0	1658.4	1696.2	1715.1	1744.2	1802.2
160°	1643.9	1629.4	1614.9	1629.4	1643.9	1647.5	1670.0	1700.0	1715.1	1740.0	1789.8
162.5°	1663.5	1652.6	1641.7	1652.6	1663.5	1666.2	1682.5	1704.2	1715.1	1736.1	1778.1
165°	1690.5	1680.6	1670.8	1680.6	1690.5	1692.9	1700.3	1710.1	1715.1	1730.1	1760.2
167.5°	1707.0	1702.3	1697.6	1702.3	1707.0	1708.2	1714.3	1722.7	1726.8	1736.6	1756.3
170°	1724.4	1719.8	1715.1	1719.8	1724.4	1725.7	1726.0	1726.5	1726.8	1736.6	1756.3
172.5°	1726.5	1725.5	1724.4	1725.5	1726.5	1726.8	1726.8	1726.8	1726.8	1734.5	1750.1
175°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1733.8	1729.1	1726.8	1731.7	1741.5
177.5°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1734.5	1730.9	1729.1	1733.0	1740.8
180°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2



TEST NUMBER: P936047

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2519.3	2511.9	2521.8	2494.6	2521.8	2511.9	2519.3	2536.6	2521.8	2531.7	2541.6
5°	2210.6	2198.2	2158.7	2126.6	2158.7	2198.2	2210.6	2262.5	2287.1	2331.6	2390.9
7.5°	1976.0	1966.1	1956.2	1936.4	1956.2	1966.1	1976.0	1990.7	2015.5	2055.0	2099.4
10°	1924.1	1926.5	1941.4	1938.9	1941.4	1926.5	1924.1	1919.1	1911.8	1919.1	1946.3
12.5°	2057.5	2079.7	2161.2	2156.3	2161.2	2079.7	2057.5	1958.7	1891.9	1879.6	1884.6
15°	2210.6	2218.0	2235.3	2237.8	2235.3	2218.0	2210.6	2171.0	1971.0	1884.6	1857.4
17.5°	2225.4	2227.9	2240.2	2240.2	2240.2	2227.9	2225.4	2208.1	2141.4	2025.3	1872.2
20°	2213.1	2218.0	2242.7	2247.7	2242.7	2218.0	2213.1	2190.9	2153.7	2111.8	1995.7
22.5°	2208.1	2218.0	2237.8	2235.3	2237.8	2218.0	2208.1	2173.6	2141.4	2111.8	2064.9
25°	2183.4	2183.4	2185.9	2188.3	2185.9	2183.4	2183.4	2156.3	2092.1	2084.6	2057.5
27.5°	2131.6	2136.5	2151.3	2148.9	2151.3	2136.5	2131.6	2121.7	2052.5	2045.1	2025.3
30°	2084.6	2079.7	2067.3	2057.5	2067.3	2079.7	2084.6	2069.8	2000.6	1980.9	1985.8
32.5°	2005.6	1993.3	1980.9	1973.4	1980.9	1993.3	2005.6	2000.6	1948.8	1921.6	1926.5
35°	1911.8	1914.2	1911.8	1904.3	1911.8	1914.2	1911.8	1916.7	1884.6	1859.9	1857.4
37.5°	1845.0	1850.0	1847.5	1837.6	1847.5	1850.0	1845.0	1840.1	1795.7	1788.3	1793.1
40°	1775.8	1778.4	1775.8	1768.5	1775.8	1778.4	1775.8	1766.0	1704.2	1706.7	1724.0
42.5°	1709.2	1706.7	1699.3	1694.3	1699.3	1706.7	1709.2	1694.3	1615.4	1607.9	1640.0
45°	1632.7	1635.1	1620.3	1612.8	1620.3	1635.1	1632.7	1622.7	1541.2	1521.5	1543.7
47.5°	1556.1	1556.1	1543.7	1536.3	1543.7	1556.1	1556.1	1543.7	1457.3	1437.5	1449.8
50°	1474.6	1472.1	1454.8	1452.3	1454.8	1472.1	1474.6	1467.1	1375.8	1358.5	1358.5
52.5°	1380.7	1380.7	1383.2	1388.1	1383.2	1380.7	1380.7	1383.2	1301.7	1284.4	1279.4
55°	1299.1	1301.7	1319.0	1323.9	1319.0	1301.7	1299.1	1299.1	1225.1	1207.8	1197.9
57.5°	1215.2	1215.2	1227.5	1227.5	1227.5	1215.2	1215.2	1210.3	1138.7	1123.8	1118.8
60°	1118.8	1123.8	1133.7	1131.3	1133.7	1123.8	1118.8	1114.0	1052.2	1042.3	1025.0
62.5°	1017.6	1022.6	1025.0	1020.0	1025.0	1022.6	1017.6	1002.8	965.7	958.4	936.1
65°	911.4	916.4	918.8	913.9	918.8	916.4	911.4	904.0	876.8	864.5	844.7
67.5°	802.7	800.3	797.8	807.7	797.8	800.3	802.7	792.8	775.5	765.7	738.5
70°	691.6	691.6	689.1	694.0	689.1	691.6	691.6	684.2	674.3	666.9	642.1
72.5°	573.1	570.5	580.5	573.1	580.5	570.5	573.1	570.5	565.6	558.2	533.5
75°	457.0	461.8	457.0	464.4	457.0	461.8	457.0	459.4	457.0	452.0	434.7
77.5°	348.3	353.2	348.3	348.3	348.3	353.2	348.3	350.7	350.7	350.7	335.9
80°	246.9	244.5	244.5	242.1	244.5	244.5	246.9	246.9	249.5	244.5	239.6
82.5°	158.1	155.6	155.6	160.6	155.6	155.6	158.1	160.6	155.6	155.6	155.6
85°	86.5	88.9	83.9	83.9	83.9	88.9	86.5	81.5	86.5	86.5	83.9
87.5°	32.2	29.6	29.6	29.6	29.6	29.6	32.2	34.6	34.6	34.6	37.0
90°	44.3	44.3	44.3	44.3	44.3	44.3	44.3	59.1	78.8	88.6	76.2
92.5°	221.5	212.7	177.5	142.3	177.5	212.7	221.5	314.1	437.3	499.0	438.2
95°	752.1	725.3	618.6	511.8	618.6	725.3	752.1	987.6	1301.6	1458.6	1231.8
97.5°	1736.1	1685.4	1482.2	1279.1	1482.2	1685.4	1736.1	1885.0	2083.5	2182.7	1804.7
100°	2438.0	2377.5	2135.5	1893.5	2135.5	2377.5	2438.0	2427.2	2412.7	2405.4	1985.9
102.5°	3037.3	2985.5	2778.2	2571.0	2778.2	2985.5	3037.3	2847.7	2594.8	2468.4	2042.9
105°	3737.0	3709.1	3597.7	3486.3	3597.7	3709.1	3737.0	3311.8	2744.9	2461.4	2049.3
107.5°	4100.7	4107.5	4134.4	4161.3	4134.4	4107.5	4100.7	3507.7	2716.8	2321.4	1958.2
110°	4194.0	4223.0	4339.1	4455.2	4339.1	4223.0	4194.0	3530.9	2646.9	2204.9	1877.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4134.5	4179.1	4357.3	4535.6	4357.3	4179.1	4134.5	3455.9	2551.1	2098.7	1806.7
115°	3932.8	3994.6	4241.8	4488.9	4241.8	3994.6	3932.8	3279.0	2407.4	1971.7	1725.7
117.5°	3654.1	3722.7	3996.8	4271.0	3996.8	3722.7	3654.1	3064.2	2277.5	1884.2	1675.1
120°	3466.5	3533.0	3799.4	4065.7	3799.4	3533.0	3466.5	2927.4	2208.6	1849.2	1658.0
122.5°	3278.7	3344.4	3607.1	3869.9	3607.1	3344.4	3278.7	2793.3	2146.0	1822.4	1649.1
125°	3030.3	3090.8	3332.9	3574.9	3332.9	3090.8	3030.3	2617.9	2068.1	1793.2	1641.6
127.5°	2830.9	2882.0	3086.2	3290.4	3086.2	2882.0	2830.9	2476.9	2004.8	1768.7	1637.4
130°	2705.0	2752.2	2940.9	3129.5	2940.9	2752.2	2705.0	2389.9	1969.5	1759.4	1639.9
132.5°	2597.7	2640.0	2808.9	2977.9	2808.9	2640.0	2597.7	2315.5	1939.3	1751.3	1641.7
135°	2446.2	2482.6	2628.2	2773.8	2628.2	2482.6	2446.2	2209.9	1894.8	1737.2	1640.1
137.5°	2334.2	2364.1	2483.2	2602.4	2483.2	2364.1	2334.2	2134.5	1868.2	1735.0	1650.2
140°	2244.5	2272.4	2383.8	2495.2	2383.8	2272.4	2244.5	2072.0	1841.8	1726.8	1651.9
142.5°	2181.5	2205.4	2301.3	2397.2	2301.3	2205.4	2181.5	2029.9	1827.8	1726.8	1657.9
145°	2087.1	2105.2	2177.8	2250.3	2177.8	2105.2	2087.1	1963.1	1797.7	1715.1	1657.9
147.5°	2007.7	2022.8	2082.9	2143.0	2082.9	2022.8	2007.7	1910.2	1780.1	1715.1	1669.3
150°	1962.3	1974.5	2023.3	2072.0	2023.3	1974.5	1962.3	1879.9	1770.1	1715.1	1675.2
152.5°	1926.1	1935.3	1972.1	2009.0	1972.1	1935.3	1926.1	1855.8	1762.0	1715.1	1679.1
155°	1883.1	1889.1	1913.5	1937.8	1913.5	1889.1	1883.1	1827.1	1752.4	1715.1	1687.6
157.5°	1845.8	1850.1	1867.1	1884.2	1867.1	1850.1	1845.8	1802.2	1744.2	1715.1	1696.2
160°	1827.1	1829.5	1839.4	1849.2	1839.4	1829.5	1827.1	1789.8	1740.0	1715.1	1700.0
162.5°	1809.6	1811.9	1821.2	1830.5	1821.2	1811.9	1809.6	1778.1	1736.1	1715.1	1704.2
165°	1782.8	1785.2	1795.1	1804.9	1795.1	1785.2	1782.8	1760.2	1730.1	1715.1	1710.1
167.5°	1771.1	1772.1	1776.3	1780.4	1776.3	1772.1	1771.1	1756.3	1736.6	1726.8	1722.7
170°	1771.1	1771.1	1771.1	1771.1	1771.1	1771.1	1771.1	1756.3	1736.6	1726.8	1726.5
172.5°	1761.7	1760.8	1757.2	1753.6	1757.2	1760.8	1761.7	1750.1	1734.5	1726.8	1726.8
175°	1748.9	1748.9	1748.9	1748.9	1748.9	1748.9	1748.9	1741.5	1731.7	1726.8	1729.1
177.5°	1746.6	1745.6	1741.4	1737.2	1741.4	1745.6	1746.6	1740.8	1733.0	1729.1	1730.9
180°	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2	1737.2



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2610.7	2610.7	2610.7	2610.7	2610.7
2.5°	2578.6	2591.0	2598.4	2608.3	2633.0
5°	2479.8	2526.7	2541.6	2578.6	2623.1
7.5°	2262.5	2405.7	2445.2	2534.2	2603.3
10°	2052.5	2195.8	2264.9	2474.9	2578.6
12.5°	1946.3	2030.3	2077.2	2371.2	2544.0
15°	1879.6	1938.9	1973.4	2232.8	2504.5
17.5°	1827.7	1869.8	1894.5	2097.0	2450.1
20°	1795.7	1815.4	1837.6	1998.2	2388.5
22.5°	1773.4	1761.1	1778.4	1929.0	2304.4
25°	1758.6	1711.6	1731.4	1874.6	2205.6
27.5°	1771.0	1667.2	1674.6	1825.3	2101.9
30°	1773.4	1612.8	1615.4	1773.4	1985.8
32.5°	1756.1	1556.1	1558.5	1709.2	1854.9
35°	1714.2	1489.4	1486.9	1635.1	1677.0
37.5°	1657.3	1417.8	1417.8	1553.6	1482.0
40°	1588.2	1346.1	1353.5	1447.4	1309.1
42.5°	1504.2	1269.5	1279.4	1306.6	1180.6
45°	1412.8	1195.5	1202.9	1104.1	1081.8
47.5°	1311.6	1118.8	1121.4	916.4	1049.8
50°	1190.5	1039.9	1030.0	785.4	1047.2
52.5°	1084.3	953.4	923.8	711.3	951.0
55°	980.6	862.0	797.8	654.6	881.8
57.5°	889.2	743.5	681.7	587.8	866.9
60°	805.2	627.4	580.5	516.2	795.3
62.5°	736.1	540.9	531.0	466.8	721.2
65°	662.0	481.7	479.1	424.8	612.5
67.5°	590.4	442.1	439.7	385.3	466.8
70°	513.7	400.1	395.2	343.3	345.7
72.5°	434.7	353.2	348.3	308.7	286.5
75°	355.7	298.8	296.4	269.2	232.2
77.5°	279.1	237.1	242.1	217.3	170.4
80°	200.0	172.9	177.9	155.6	128.4
82.5°	133.4	113.7	118.5	98.8	86.5
85°	74.1	64.2	66.6	51.9	39.5
87.5°	34.6	29.6	29.6	19.7	12.3
90°	51.3	32.6	30.3	21.0	11.7
92.5°	316.4	225.1	205.3	125.9	46.6
95°	778.4	438.4	402.1	257.0	112.0
97.5°	1048.6	481.6	449.6	321.5	193.6
100°	1147.0	517.7	488.7	372.6	256.5
102.5°	1192.0	553.8	526.7	418.5	310.1
105°	1225.4	607.5	584.6	492.8	401.1
107.5°	1231.7	686.7	665.3	579.9	494.4
110°	1222.3	731.0	711.8	634.6	557.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	1222.7	784.7	766.3	692.7	619.1
115°	1234.0	865.2	848.2	780.3	712.4
117.5°	1256.9	943.3	927.9	866.2	804.5
120°	1275.6	988.7	974.2	916.2	858.2
122.5°	1302.4	1042.4	1027.7	969.2	910.6
125°	1338.5	1111.2	1097.8	1044.4	991.1
127.5°	1374.7	1177.6	1164.2	1110.2	1056.4
130°	1401.1	1221.9	1207.5	1149.4	1091.4
132.5°	1422.5	1258.1	1243.6	1185.6	1127.5
135°	1445.8	1300.1	1286.9	1234.0	1181.1
137.5°	1480.8	1353.6	1340.6	1288.3	1236.0
140°	1502.2	1389.8	1377.8	1329.6	1281.4
142.5°	1520.0	1416.6	1405.5	1360.9	1316.3
145°	1543.4	1457.5	1447.8	1408.9	1370.0
147.5°	1577.6	1508.8	1499.4	1461.5	1423.7
150°	1595.4	1535.5	1527.0	1492.8	1458.6
152.5°	1607.1	1553.1	1546.7	1520.7	1494.8
155°	1632.7	1591.5	1586.8	1567.6	1548.4
157.5°	1658.4	1630.0	1625.4	1606.8	1588.1
160°	1670.0	1647.5	1643.9	1629.4	1614.9
162.5°	1682.5	1666.2	1663.5	1652.6	1641.7
165°	1700.3	1692.9	1690.5	1680.6	1670.8
167.5°	1714.3	1708.2	1707.0	1702.3	1697.6
170°	1726.0	1725.7	1724.4	1719.8	1715.1
172.5°	1726.8	1726.8	1726.5	1725.5	1724.4
175°	1733.8	1737.2	1737.2	1737.2	1737.2
177.5°	1734.5	1737.2	1737.2	1737.2	1737.2
180°	1737.2	1737.2	1737.2	1737.2	1737.2



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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	12.20	12.96	13.26	14.02	15.46	15.04	15.80	16.10	16.86	18.30
	3H	12.67	13.35	13.74	14.42	15.88	16.38	17.06	17.45	18.13	19.58
	4H	12.86	13.50	13.93	14.57	16.04	16.82	17.46	17.90	18.54	20.00
	6H	12.97	13.56	14.06	14.64	16.11	17.10	17.69	18.19	18.77	20.24
	8H	12.97	13.53	14.06	14.62	16.09	17.17	17.74	18.27	18.83	20.30
	12H	12.94	13.47	14.03	14.56	16.05	17.21	17.75	18.31	18.83	20.32
4H	2H	13.22	13.87	14.31	14.94	16.40	15.43	16.08	16.52	17.15	18.61
	3H	14.24	14.78	15.33	15.88	17.35	16.93	17.47	18.03	18.57	20.05
	4H	14.51	15.00	15.61	16.09	17.59	17.46	17.95	18.56	19.04	20.54
	6H	14.63	15.05	15.74	16.17	17.66	17.82	18.24	18.93	19.35	20.85
	8H	14.63	15.03	15.74	16.13	17.64	17.93	18.32	19.03	19.42	20.93
	12H	14.60	14.95	15.72	16.07	17.58	17.98	18.34	19.10	19.45	20.96
8H	4H	14.96	15.35	16.06	16.46	17.96	17.57	17.97	18.68	19.07	20.58
	6H	15.22	15.54	16.34	16.69	18.19	18.01	18.33	19.14	19.48	20.98
	8H	15.26	15.54	16.39	16.67	18.19	18.16	18.45	19.29	19.57	21.10
	12H	15.24	15.49	16.37	16.61	18.17	18.26	18.51	19.39	19.63	21.19
12H	4H	14.96	15.32	16.08	16.43	17.95	17.53	17.89	18.66	19.01	20.52
	6H	15.28	15.56	16.41	16.69	18.21	18.01	18.29	19.14	19.42	20.94
	8H	15.34	15.59	16.48	16.71	18.27	18.16	18.41	19.30	19.54	21.10