

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: P936094

Luminaire Tested: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-8-3500K

Issue Date: 12/17/2024

**Test Information**

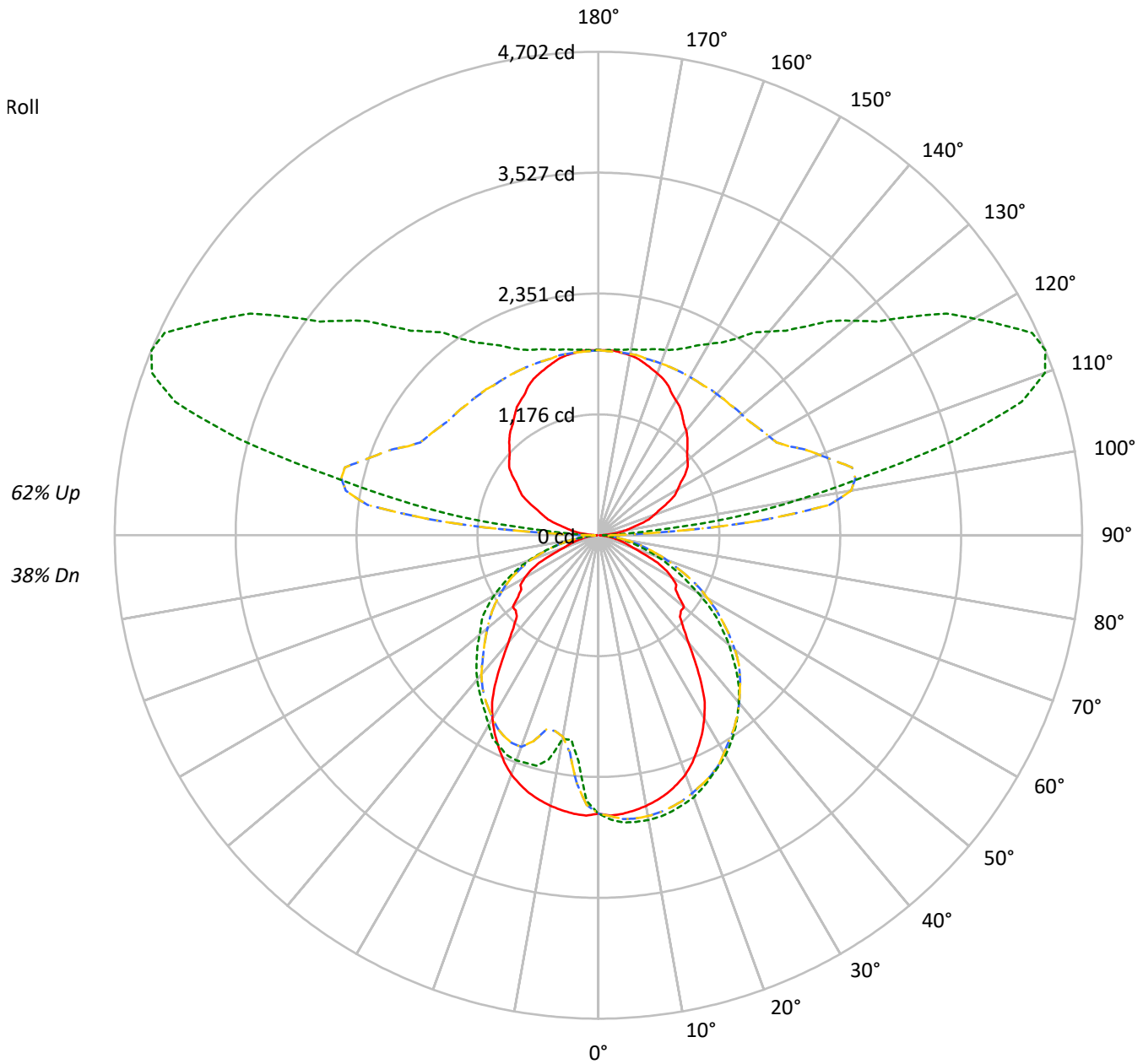
Test Method: LM-79-2019  
Report Number: P936094  
REPORT IS A COMBINATION OF REPORTS P933780 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-8-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18699.8 lumens  
Efficiency: N/A  
Efficacy: 129.1 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	50	30	10	0
RCR																					
0	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38	38	38	38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32	32	32	32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27	27	27	27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23	23	23	23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19	19	19	19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17	17	17	17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15	15	15	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13	13	13	13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12	12	12	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10	10	10	10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9	9	9	9

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	12557	12557	12557	12557
5°	12651	12676	12651	9967
10°	12566	12486	12566	8927
15°	12430	12216	12430	10201
20°	12170	11895	12170	10222
25°	11637	11428	11637	10005
30°	10950	11040	10950	9530
35°	9762	10549	9762	9007
40°	8134	9971	8134	8612
45°	7268	9295	7268	8158
50°	7722	8488	7722	7702
55°	7265	7619	7265	7439
60°	7489	6471	7489	6813
65°	6789	5349	6789	5979
70°	4700	4263	4700	5012
75°	4122	3151	4122	3773
80°	3321	2083	3321	2269
85°	1910	1103	1910	937

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11139 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	244.3	1.3
10°-20°	693.7	3.7
20°-30°	1072.3	5.7
30°-40°	1280.1	6.8
40°-50°	1287.6	6.9
50°-60°	1120.3	6.0
60°-70°	794.3	4.2
70°-80°	420.3	2.2
80°-90°	111.5	0.6
90°-100°	877.9	4.7
100°-110°	2308.1	12.3
110°-120°	2393.2	12.8
120°-130°	1919.7	10.3
130°-140°	1506.3	8.1
140°-150°	1156.1	6.2
150°-160°	832.6	4.5
160°-170°	509.4	2.7
170°-180°	172.1	0.9
0°-30°	2010.3	10.8
0°-40°	3290.3	17.6
0°-60°	5698.2	30.5
0°-90°	7024.4	37.6
90°-120°	5579.2	29.8
90°-150°	10161.3	54.3
90°-180°	11675.0	62.4
0°-180°	18699.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2706	2706	2706	2706	2706	
5°	2719	2804	2719	2205	2719	258
15°	2596	2778	2596	2320	2596	731
25°	2286	2591	2286	2269	2286	1050
35°	1739	2312	1739	1974	1739	1076
45°	1122	1905	1122	1672	1122	898
55°	914	1406	914	1372	914	840
65°	635	848	635	947	635	607
75°	241	402	241	481	241	253
85°	41	102	41	87	41	55
90°	12	46	12	46	12	12
95°	116	531	116	531	116	129
105°	416	3614	416	3614	416	441
115°	739	4654	739	4654	739	729
125°	1027	3706	1027	3706	1027	912
135°	1224	2876	1224	2876	1224	947
145°	1420	2333	1420	2333	1420	890
155°	1605	2009	1605	2009	1605	738
165°	1732	1871	1732	1871	1732	489
175°	1801	1813	1801	1813	1801	171
180°	1801	1801	1801	1801	1801	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2729.6	2729.6	2744.9	2750.0	2750.0	2742.4	2734.7	2742.4	2765.4	2773.1	2770.6
5°	2719.3	2739.8	2767.9	2773.1	2778.2	2775.6	2770.6	2775.6	2801.3	2806.4	2808.9
7.5°	2698.9	2737.2	2773.1	2780.7	2788.5	2780.7	2778.2	2783.4	2808.9	2814.1	2814.1
10°	2673.2	2727.0	2767.9	2773.1	2780.7	2773.1	2773.1	2783.4	2808.9	2814.1	2816.6
12.5°	2637.3	2711.6	2750.0	2755.2	2765.4	2762.8	2760.3	2770.6	2796.1	2801.3	2801.3
15°	2596.4	2683.5	2719.3	2724.4	2742.4	2737.2	2737.2	2747.5	2775.6	2783.4	2780.7
17.5°	2540.0	2647.6	2688.6	2696.2	2709.0	2706.5	2709.0	2719.3	2744.9	2750.0	2752.6
20°	2476.1	2599.0	2647.6	2655.3	2668.1	2668.1	2668.1	2680.9	2706.5	2716.8	2716.8
22.5°	2389.0	2547.8	2599.0	2604.1	2619.4	2619.4	2624.5	2642.5	2665.5	2668.1	2668.1
25°	2286.5	2491.4	2534.9	2550.3	2565.7	2573.4	2581.0	2591.3	2599.0	2596.4	2599.0
27.5°	2179.0	2419.7	2476.1	2486.3	2506.8	2514.5	2524.7	2527.2	2529.9	2537.5	2532.4
30°	2058.6	2319.9	2404.4	2414.7	2447.9	2453.0	2442.8	2447.9	2460.7	2465.8	2471.0
32.5°	1923.0	2171.3	2330.2	2353.1	2383.8	2368.5	2365.9	2373.7	2394.1	2394.1	2399.2
35°	1738.6	2056.1	2261.0	2281.4	2304.5	2286.5	2296.8	2299.3	2312.2	2319.9	2317.3
37.5°	1536.3	1956.2	2189.3	2204.7	2222.6	2199.5	2214.8	2222.6	2232.8	2227.7	2227.7
40°	1357.1	1800.1	2104.8	2115.0	2130.3	2112.4	2127.8	2133.0	2138.1	2133.0	2130.3
42.5°	1223.9	1628.5	2015.1	2027.9	2017.7	2030.5	2035.7	2045.8	2038.2	2027.9	2027.9
45°	1121.5	1582.4	1917.8	1933.3	1917.8	1938.4	1946.0	1946.0	1923.0	1917.8	1915.3
47.5°	1088.3	1490.2	1820.6	1820.6	1812.9	1838.5	1851.3	1833.3	1810.3	1802.6	1802.6
50°	1085.7	1387.8	1687.4	1677.1	1713.0	1743.7	1730.9	1713.0	1695.1	1666.9	1666.9
52.5°	985.9	1262.3	1515.8	1554.3	1610.6	1628.5	1608.1	1590.1	1559.4	1546.6	1536.3
55°	914.2	1131.8	1359.7	1436.4	1495.4	1518.4	1480.0	1462.1	1416.0	1408.3	1403.2
57.5°	898.7	942.3	1216.3	1313.6	1385.3	1382.7	1359.7	1326.4	1288.0	1280.2	1277.7
60°	824.5	681.1	1062.6	1177.8	1252.1	1244.4	1223.9	1193.2	1157.4	1152.2	1147.1
62.5°	747.7	494.2	888.5	1019.1	1124.0	1121.5	1103.6	1057.5	1031.9	1019.1	1008.8
65°	635.0	414.8	632.5	847.6	998.7	1003.7	965.3	932.1	903.9	888.5	886.0
67.5°	483.9	338.0	427.6	706.7	878.3	873.2	824.5	809.1	773.3	765.6	750.2
70°	358.4	225.3	297.0	573.6	760.5	747.7	709.3	691.4	658.0	640.1	629.8
72.5°	297.0	181.8	217.6	445.5	640.1	624.8	591.5	571.0	542.8	527.4	517.3
75°	240.7	192.1	166.5	330.3	519.8	509.6	478.8	458.3	435.3	414.8	417.3
77.5°	176.6	179.3	133.1	243.2	412.2	396.9	379.0	353.4	343.1	322.7	322.7
80°	133.1	140.8	99.9	166.5	297.0	297.0	281.7	263.8	245.8	235.6	235.6
82.5°	89.6	89.6	74.2	104.9	202.3	194.6	184.4	179.3	169.0	163.9	163.9
85°	41.0	51.2	46.1	64.1	110.1	115.2	115.2	110.1	107.6	102.4	104.9
87.5°	12.8	23.1	28.2	35.9	56.3	58.9	61.4	61.4	61.4	64.1	64.1
90°	12.1	21.8	31.4	33.8	53.2	79.0	91.9	81.7	61.2	45.9	45.9
92.5°	48.4	130.5	212.8	233.3	328.0	454.3	517.3	453.4	325.6	229.7	220.5
95°	116.1	266.5	416.9	454.5	807.0	1277.0	1512.1	1349.3	1023.8	779.7	751.9
97.5°	200.7	333.3	466.1	499.2	1087.1	1870.9	2262.8	2159.9	1954.2	1799.8	1747.2
100°	265.9	386.2	506.6	536.7	1189.1	2058.7	2493.6	2501.2	2516.2	2527.4	2464.7
102.5°	321.5	433.8	546.0	574.1	1235.8	2117.8	2558.9	2690.0	2952.2	3148.8	3095.1
105°	415.8	510.9	606.0	629.8	1270.4	2124.5	2551.7	2845.6	3433.3	3874.1	3845.2
107.5°	512.5	601.2	689.7	711.9	1276.9	2030.1	2406.6	2816.5	3636.4	4251.2	4258.2
110°	577.8	657.9	737.9	757.9	1267.2	1946.2	2285.8	2744.0	3660.5	4347.9	4377.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	641.9	718.1	794.4	813.5	1267.5	1873.0	2175.7	2644.7	3582.7	4286.2	4332.4
115°	738.6	808.9	879.3	896.9	1279.3	1789.1	2044.0	2495.8	3399.3	4077.1	4141.1
117.5°	834.0	898.0	961.9	977.9	1303.0	1736.5	1953.3	2361.1	3176.6	3788.2	3859.2
120°	889.6	949.8	1010.0	1025.0	1322.4	1718.8	1917.1	2289.7	3034.8	3593.6	3662.6
122.5°	944.0	1004.8	1065.4	1080.6	1350.2	1709.6	1889.3	2224.7	2895.8	3399.0	3467.1
125°	1027.4	1082.8	1138.1	1151.9	1387.6	1701.9	1859.0	2144.0	2714.0	3141.5	3204.2
127.5°	1095.2	1151.0	1206.9	1220.8	1425.1	1697.5	1833.6	2078.3	2567.8	2934.8	2987.7
130°	1131.4	1191.6	1251.8	1266.8	1452.5	1700.1	1823.9	2041.8	2477.5	2804.3	2853.2
132.5°	1168.9	1229.1	1289.3	1304.3	1474.7	1702.0	1815.5	2010.5	2400.5	2693.0	2736.8
135°	1224.4	1279.3	1334.1	1347.8	1498.8	1700.3	1801.0	1964.4	2291.0	2536.0	2573.7
137.5°	1281.3	1335.6	1389.7	1403.3	1535.1	1710.8	1798.7	1936.7	2212.8	2419.9	2450.8
140°	1328.4	1378.4	1428.3	1440.8	1557.3	1712.5	1790.1	1909.4	2148.0	2326.9	2355.7
142.5°	1364.6	1410.9	1457.1	1468.6	1575.8	1718.7	1790.1	1894.9	2104.4	2261.5	2286.4
145°	1420.3	1460.6	1500.9	1511.0	1600.0	1718.7	1778.0	1863.7	2035.1	2163.7	2182.5
147.5°	1475.9	1515.1	1554.4	1564.2	1635.5	1730.5	1778.0	1845.5	1980.2	2081.4	2097.0
150°	1512.1	1547.6	1583.1	1591.9	1653.9	1736.6	1778.0	1835.0	1948.9	2034.3	2046.9
152.5°	1549.6	1576.5	1603.4	1610.1	1666.1	1740.7	1778.0	1826.7	1923.9	1996.8	2006.3
155°	1605.2	1625.1	1645.0	1649.9	1692.6	1749.5	1778.0	1816.7	1894.1	1952.1	1958.4
157.5°	1646.3	1665.7	1685.0	1689.8	1719.2	1758.4	1778.0	1808.2	1868.3	1913.5	1917.9
160°	1674.1	1689.2	1704.2	1708.0	1731.3	1762.4	1778.0	1803.8	1855.4	1894.1	1896.6
162.5°	1702.0	1713.2	1724.5	1727.3	1744.2	1766.8	1778.0	1799.8	1843.3	1876.0	1878.4
165°	1732.1	1742.3	1752.5	1755.1	1762.7	1772.9	1778.0	1793.6	1824.8	1848.2	1850.7
167.5°	1759.9	1764.7	1769.6	1770.8	1777.2	1785.9	1790.1	1800.3	1820.8	1836.1	1837.1
170°	1778.0	1782.9	1787.7	1789.0	1789.4	1789.8	1790.1	1800.3	1820.8	1836.1	1836.1
172.5°	1787.7	1788.8	1789.8	1790.1	1790.1	1790.1	1790.1	1798.2	1814.3	1826.4	1825.4
175°	1801.0	1801.0	1801.0	1801.0	1797.4	1792.6	1790.1	1795.3	1805.4	1813.1	1813.1
177.5°	1801.0	1801.0	1801.0	1801.0	1798.2	1794.4	1792.6	1796.6	1804.7	1810.7	1809.6
180°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2775.6	2767.9	2775.6	2770.6	2773.1	2765.4	2742.4	2734.7	2742.4	2750.0	2750.0
5°	2808.9	2803.8	2808.9	2808.9	2806.4	2801.3	2775.6	2770.6	2775.6	2778.2	2773.1
7.5°	2819.2	2811.5	2819.2	2814.1	2814.1	2808.9	2783.4	2778.2	2780.7	2788.5	2780.7
10°	2819.2	2811.5	2819.2	2816.6	2814.1	2808.9	2783.4	2773.1	2773.1	2780.7	2773.1
12.5°	2806.4	2801.3	2806.4	2801.3	2801.3	2796.1	2770.6	2760.3	2762.8	2765.4	2755.2
15°	2785.9	2778.2	2785.9	2780.7	2783.4	2775.6	2747.5	2737.2	2737.2	2742.4	2724.4
17.5°	2755.2	2744.9	2755.2	2752.6	2750.0	2744.9	2719.3	2709.0	2706.5	2709.0	2696.2
20°	2719.3	2711.6	2719.3	2716.8	2716.8	2706.5	2680.9	2668.1	2668.1	2668.1	2655.3
22.5°	2663.0	2655.3	2663.0	2668.1	2668.1	2665.5	2642.5	2624.5	2619.4	2619.4	2604.1
25°	2599.0	2591.3	2599.0	2599.0	2596.4	2599.0	2591.3	2581.0	2573.4	2565.7	2550.3
27.5°	2537.5	2532.4	2537.5	2532.4	2537.5	2529.9	2527.2	2524.7	2514.5	2506.8	2486.3
30°	2476.1	2471.0	2476.1	2471.0	2465.8	2460.7	2447.9	2442.8	2453.0	2447.9	2414.7
32.5°	2399.2	2394.1	2399.2	2399.2	2394.1	2394.1	2373.7	2365.9	2368.5	2383.8	2353.1
35°	2319.9	2312.2	2319.9	2317.3	2319.9	2312.2	2299.3	2296.8	2286.5	2304.5	2281.4
37.5°	2227.7	2220.0	2227.7	2227.7	2227.7	2232.8	2222.6	2214.8	2199.5	2222.6	2204.7
40°	2133.0	2122.7	2133.0	2130.3	2133.0	2138.1	2133.0	2127.8	2112.4	2130.3	2115.0
42.5°	2025.4	2022.9	2025.4	2027.9	2027.9	2038.2	2045.8	2035.7	2030.5	2017.7	2027.9
45°	1910.2	1905.1	1910.2	1915.3	1917.8	1923.0	1946.0	1946.0	1938.4	1917.8	1933.3
47.5°	1787.2	1774.4	1787.2	1802.6	1802.6	1810.3	1833.3	1851.3	1838.5	1812.9	1820.6
50°	1656.7	1659.2	1656.7	1666.9	1666.9	1695.1	1713.0	1730.9	1743.7	1713.0	1677.1
52.5°	1528.7	1526.1	1528.7	1536.3	1546.6	1559.4	1590.1	1608.1	1628.5	1610.6	1554.3
55°	1400.6	1405.7	1400.6	1403.2	1408.3	1416.0	1462.1	1480.0	1518.4	1495.4	1436.4
57.5°	1272.6	1264.9	1272.6	1277.7	1280.2	1288.0	1326.4	1359.7	1382.7	1385.3	1313.6
60°	1124.0	1113.9	1124.0	1147.1	1152.2	1157.4	1193.2	1223.9	1244.4	1252.1	1177.8
62.5°	993.5	975.6	993.5	1008.8	1019.1	1031.9	1057.5	1103.6	1121.5	1124.0	1019.1
65°	855.2	847.6	855.2	886.0	888.5	903.9	932.1	965.3	1003.7	998.7	847.6
67.5°	729.8	729.8	729.8	750.2	765.6	773.3	809.1	824.5	873.2	878.3	706.7
70°	614.5	612.0	614.5	629.8	640.1	658.0	691.4	709.3	747.7	760.5	573.6
72.5°	504.5	501.8	504.5	517.3	527.4	542.8	571.0	591.5	624.8	640.1	445.5
75°	407.2	402.0	407.2	417.3	414.8	435.3	458.3	478.8	509.6	519.8	330.3
77.5°	312.4	312.4	312.4	322.7	322.7	343.1	353.4	379.0	396.9	412.2	243.2
80°	233.0	230.4	233.0	235.6	235.6	245.8	263.8	281.7	297.0	297.0	166.5
82.5°	163.9	158.7	163.9	163.9	163.9	169.0	179.3	184.4	194.6	202.3	104.9
85°	102.4	102.4	102.4	104.9	102.4	107.6	110.1	115.2	115.2	110.1	64.1
87.5°	66.6	64.1	66.6	64.1	64.1	61.4	61.4	61.4	58.9	56.3	35.9
90°	45.9	45.9	45.9	45.9	45.9	61.2	81.7	91.9	79.0	53.2	33.8
92.5°	184.0	147.5	184.0	220.5	229.7	325.6	453.4	517.3	454.3	328.0	233.3
95°	641.3	530.6	641.3	751.9	779.7	1023.8	1349.3	1512.1	1277.0	807.0	454.5
97.5°	1536.5	1326.0	1536.5	1747.2	1799.8	1954.2	2159.9	2262.8	1870.9	1087.1	499.2
100°	2213.9	1963.0	2213.9	2464.7	2527.4	2516.2	2501.2	2493.6	2058.7	1189.1	536.7
102.5°	2880.2	2665.3	2880.2	3095.1	3148.8	2952.2	2690.0	2558.9	2117.8	1235.8	574.1
105°	3729.7	3614.2	3729.7	3845.2	3874.1	3433.3	2845.6	2551.7	2124.5	1270.4	629.8
107.5°	4286.1	4314.0	4286.1	4258.2	4251.2	3636.4	2816.5	2406.6	2030.1	1276.9	711.9
110°	4498.3	4618.6	4498.3	4377.9	4347.9	3660.5	2744.0	2285.8	1946.2	1267.2	757.9





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4517.2	4702.0	4517.2	4332.4	4286.2	3582.7	2644.7	2175.7	1873.0	1267.5	813.5
115°	4397.4	4653.6	4397.4	4141.1	4077.1	3399.3	2495.8	2044.0	1789.1	1279.3	896.9
117.5°	4143.4	4427.7	4143.4	3859.2	3788.2	3176.6	2361.1	1953.3	1736.5	1303.0	977.9
120°	3938.8	4214.9	3938.8	3662.6	3593.6	3034.8	2289.7	1917.1	1718.8	1322.4	1025.0
122.5°	3739.5	4011.9	3739.5	3467.1	3399.0	2895.8	2224.7	1889.3	1709.6	1350.2	1080.6
125°	3455.2	3706.0	3455.2	3204.2	3141.5	2714.0	2144.0	1859.0	1701.9	1387.6	1151.9
127.5°	3199.4	3411.1	3199.4	2987.7	2934.8	2567.8	2078.3	1833.6	1697.5	1425.1	1220.8
130°	3048.8	3244.3	3048.8	2853.2	2804.3	2477.5	2041.8	1823.9	1700.1	1452.5	1266.8
132.5°	2911.9	3087.1	2911.9	2736.8	2693.0	2400.5	2010.5	1815.5	1702.0	1474.7	1304.3
135°	2724.6	2875.6	2724.6	2573.7	2536.0	2291.0	1964.4	1801.0	1700.3	1498.8	1347.8
137.5°	2574.3	2697.9	2574.3	2450.8	2419.9	2212.8	1936.7	1798.7	1710.8	1535.1	1403.3
140°	2471.2	2586.7	2471.2	2355.7	2326.9	2148.0	1909.4	1790.1	1712.5	1557.3	1440.8
142.5°	2385.8	2485.2	2385.8	2286.4	2261.5	2104.4	1894.9	1790.1	1718.7	1575.8	1468.6
145°	2257.7	2332.9	2257.7	2182.5	2163.7	2035.1	1863.7	1778.0	1718.7	1600.0	1511.0
147.5°	2159.3	2221.6	2159.3	2097.0	2081.4	1980.2	1845.5	1778.0	1730.5	1635.5	1564.2
150°	2097.5	2148.0	2097.5	2046.9	2034.3	1948.9	1835.0	1778.0	1736.6	1653.9	1591.9
152.5°	2044.5	2082.7	2044.5	2006.3	1996.8	1923.9	1826.7	1778.0	1740.7	1666.1	1610.1
155°	1983.7	2008.9	1983.7	1958.4	1952.1	1894.1	1816.7	1778.0	1749.5	1692.6	1649.9
157.5°	1935.6	1953.3	1935.6	1917.9	1913.5	1868.3	1808.2	1778.0	1758.4	1719.2	1689.8
160°	1906.9	1917.1	1906.9	1896.6	1894.1	1855.4	1803.8	1778.0	1762.4	1731.3	1708.0
162.5°	1888.0	1897.7	1888.0	1878.4	1876.0	1843.3	1799.8	1778.0	1766.8	1744.2	1727.3
165°	1861.0	1871.1	1861.0	1850.7	1848.2	1824.8	1793.6	1778.0	1772.9	1762.7	1755.1
167.5°	1841.5	1845.8	1841.5	1837.1	1836.1	1820.8	1800.3	1790.1	1785.9	1777.2	1770.8
170°	1836.1	1836.1	1836.1	1836.1	1836.1	1820.8	1800.3	1790.1	1789.8	1789.4	1789.0
172.5°	1821.7	1817.9	1821.7	1825.4	1826.4	1814.3	1798.2	1790.1	1790.1	1790.1	1790.1
175°	1813.1	1813.1	1813.1	1813.1	1813.1	1805.4	1795.3	1790.1	1792.6	1797.4	1801.0
177.5°	1805.2	1801.0	1805.2	1809.6	1810.7	1804.7	1796.6	1792.6	1794.4	1798.2	1801.0
180°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2744.9	2729.6	2729.6	2704.0	2693.7	2686.1	2673.2	2634.8	2624.5	2614.4	2629.7
5°	2767.9	2739.8	2719.3	2673.2	2634.8	2619.4	2570.8	2478.6	2417.2	2371.0	2345.5
7.5°	2773.1	2737.2	2698.9	2627.2	2534.9	2494.0	2345.5	2176.5	2130.3	2089.5	2063.8
10°	2767.9	2727.0	2673.2	2565.7	2348.0	2276.4	2127.8	2017.7	1989.6	1981.9	1989.6
12.5°	2750.0	2711.6	2637.3	2458.2	2153.4	2104.8	2017.7	1953.7	1948.6	1961.4	2030.5
15°	2719.3	2683.5	2596.4	2314.7	2045.8	2010.0	1948.6	1925.5	1953.7	2043.3	2250.7
17.5°	2688.6	2647.6	2540.0	2174.0	1964.0	1938.4	1894.8	1940.9	2099.6	2220.0	2289.2
20°	2647.6	2599.0	2476.1	2071.5	1905.1	1882.0	1861.5	2068.9	2189.3	2232.8	2271.2
22.5°	2599.0	2547.8	2389.0	1999.8	1843.6	1825.7	1838.5	2140.6	2189.3	2220.0	2253.3
25°	2534.9	2491.4	2286.5	1943.4	1795.0	1774.4	1823.1	2133.0	2161.1	2168.8	2235.4
27.5°	2476.1	2419.7	2179.0	1892.3	1736.1	1728.4	1836.0	2099.6	2120.2	2127.8	2199.5
30°	2404.4	2319.9	2058.6	1838.5	1674.6	1672.0	1838.5	2058.6	2053.6	2074.0	2145.8
32.5°	2330.2	2171.3	1923.0	1771.9	1615.7	1613.2	1820.6	1997.2	1992.1	2020.3	2074.0
35°	2261.0	2056.1	1738.6	1695.1	1541.5	1544.0	1777.0	1925.5	1928.1	1953.7	1987.0
37.5°	2189.3	1956.2	1536.3	1610.6	1469.8	1469.8	1718.1	1858.9	1853.9	1861.5	1907.6
40°	2104.8	1800.1	1357.1	1500.5	1403.2	1395.5	1646.4	1787.2	1769.3	1766.8	1830.8
42.5°	2015.1	1628.5	1223.9	1354.6	1326.4	1316.1	1559.4	1700.2	1666.9	1674.6	1756.5
45°	1917.8	1582.4	1121.5	1144.6	1247.0	1239.4	1464.6	1600.3	1577.3	1597.8	1682.3
47.5°	1820.6	1490.2	1088.3	950.0	1162.5	1159.9	1359.7	1503.0	1490.2	1510.8	1600.3
50°	1687.4	1387.8	1085.7	814.3	1067.7	1078.0	1234.2	1408.3	1408.3	1426.3	1520.9
52.5°	1515.8	1262.3	985.9	737.4	957.7	988.4	1124.0	1326.4	1331.5	1349.4	1433.9
55°	1359.7	1131.8	914.2	678.6	827.0	893.6	1016.6	1241.9	1252.1	1270.1	1346.8
57.5°	1216.3	942.3	898.7	609.4	706.7	770.7	921.8	1159.9	1165.0	1180.4	1254.7
60°	1062.6	681.1	824.5	535.2	601.7	650.4	834.7	1062.6	1080.5	1090.8	1154.9
62.5°	888.5	494.2	747.7	483.9	550.5	560.8	763.1	970.5	993.5	1001.2	1039.5
65°	632.5	414.8	635.0	440.4	496.7	499.3	686.2	875.7	896.2	909.0	937.1
67.5°	427.6	338.0	483.9	399.4	455.8	458.3	612.0	765.6	793.8	804.0	821.9
70°	297.0	225.3	358.4	355.9	409.7	414.8	532.6	665.7	691.4	699.0	709.3
72.5°	217.6	181.8	297.0	320.1	361.0	366.2	450.7	553.1	578.7	586.3	591.5
75°	166.5	192.1	240.7	279.1	307.3	309.8	368.7	450.7	468.6	473.7	476.3
77.5°	133.1	179.3	176.6	225.3	251.0	245.8	289.3	348.3	363.6	363.6	363.6
80°	99.9	140.8	133.1	161.3	184.4	179.3	207.4	248.4	253.5	258.6	256.0
82.5°	74.2	89.6	89.6	102.4	122.9	117.8	138.3	161.3	161.3	161.3	166.5
85°	46.1	51.2	41.0	53.8	69.1	66.6	76.8	87.0	89.6	89.6	84.5
87.5°	28.2	23.1	12.8	20.4	30.7	30.7	35.9	38.4	35.9	35.9	35.9
90°	31.4	21.8	12.1	21.8	31.4	33.8	53.2	79.0	91.9	81.7	61.2
92.5°	212.8	130.5	48.4	130.5	212.8	233.3	328.0	454.3	517.3	453.4	325.6
95°	416.9	266.5	116.1	266.5	416.9	454.5	807.0	1277.0	1512.1	1349.3	1023.8
97.5°	466.1	333.3	200.7	333.3	466.1	499.2	1087.1	1870.9	2262.8	2159.9	1954.2
100°	506.6	386.2	265.9	386.2	506.6	536.7	1189.1	2058.7	2493.6	2501.2	2516.2
102.5°	546.0	433.8	321.5	433.8	546.0	574.1	1235.8	2117.8	2558.9	2690.0	2952.2
105°	606.0	510.9	415.8	510.9	606.0	629.8	1270.4	2124.5	2551.7	2845.6	3433.3
107.5°	689.7	601.2	512.5	601.2	689.7	711.9	1276.9	2030.1	2406.6	2816.5	3636.4
110°	737.9	657.9	577.8	657.9	737.9	757.9	1267.2	1946.2	2285.8	2744.0	3660.5



TEST NUMBER: P936094

CATALOG NUMBER: SQ4-FA-150U-100D-B2750-1D-UNV-STD-W-8-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	794.4	718.1	641.9	718.1	794.4	813.5	1267.5	1873.0	2175.7	2644.7	3582.7
115°	879.3	808.9	738.6	808.9	879.3	896.9	1279.3	1789.1	2044.0	2495.8	3399.3
117.5°	961.9	898.0	834.0	898.0	961.9	977.9	1303.0	1736.5	1953.3	2361.1	3176.6
120°	1010.0	949.8	889.6	949.8	1010.0	1025.0	1322.4	1718.8	1917.1	2289.7	3034.8
122.5°	1065.4	1004.8	944.0	1004.8	1065.4	1080.6	1350.2	1709.6	1889.3	2224.7	2895.8
125°	1138.1	1082.8	1027.4	1082.8	1138.1	1151.9	1387.6	1701.9	1859.0	2144.0	2714.0
127.5°	1206.9	1151.0	1095.2	1151.0	1206.9	1220.8	1425.1	1697.5	1833.6	2078.3	2567.8
130°	1251.8	1191.6	1131.4	1191.6	1251.8	1266.8	1452.5	1700.1	1823.9	2041.8	2477.5
132.5°	1289.3	1229.1	1168.9	1229.1	1289.3	1304.3	1474.7	1702.0	1815.5	2010.5	2400.5
135°	1334.1	1279.3	1224.4	1279.3	1334.1	1347.8	1498.8	1700.3	1801.0	1964.4	2291.0
137.5°	1389.7	1335.6	1281.3	1335.6	1389.7	1403.3	1535.1	1710.8	1798.7	1936.7	2212.8
140°	1428.3	1378.4	1328.4	1378.4	1428.3	1440.8	1557.3	1712.5	1790.1	1909.4	2148.0
142.5°	1457.1	1410.9	1364.6	1410.9	1457.1	1468.6	1575.8	1718.7	1790.1	1894.9	2104.4
145°	1500.9	1460.6	1420.3	1460.6	1500.9	1511.0	1600.0	1718.7	1778.0	1863.7	2035.1
147.5°	1554.4	1515.1	1475.9	1515.1	1554.4	1564.2	1635.5	1730.5	1778.0	1845.5	1980.2
150°	1583.1	1547.6	1512.1	1547.6	1583.1	1591.9	1653.9	1736.6	1778.0	1835.0	1948.9
152.5°	1603.4	1576.5	1549.6	1576.5	1603.4	1610.1	1666.1	1740.7	1778.0	1826.7	1923.9
155°	1645.0	1625.1	1605.2	1625.1	1645.0	1649.9	1692.6	1749.5	1778.0	1816.7	1894.1
157.5°	1685.0	1665.7	1646.3	1665.7	1685.0	1689.8	1719.2	1758.4	1778.0	1808.2	1868.3
160°	1704.2	1689.2	1674.1	1689.2	1704.2	1708.0	1731.3	1762.4	1778.0	1803.8	1855.4
162.5°	1724.5	1713.2	1702.0	1713.2	1724.5	1727.3	1744.2	1766.8	1778.0	1799.8	1843.3
165°	1752.5	1742.3	1732.1	1742.3	1752.5	1755.1	1762.7	1772.9	1778.0	1793.6	1824.8
167.5°	1769.6	1764.7	1759.9	1764.7	1769.6	1770.8	1777.2	1785.9	1790.1	1800.3	1820.8
170°	1787.7	1782.9	1778.0	1782.9	1787.7	1789.0	1789.4	1789.8	1790.1	1800.3	1820.8
172.5°	1789.8	1788.8	1787.7	1788.8	1789.8	1790.1	1790.1	1790.1	1790.1	1798.2	1814.3
175°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1797.4	1792.6	1790.1	1795.3	1805.4
177.5°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1798.2	1794.4	1792.6	1796.6	1804.7
180°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0



TEST NUMBER: P936094  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2611.7	2604.1	2614.4	2586.2	2614.4	2604.1	2611.7	2629.7	2614.4	2624.5	2634.8
5°	2291.7	2278.9	2237.9	2204.7	2237.9	2278.9	2291.7	2345.5	2371.0	2417.2	2478.6
7.5°	2048.5	2038.2	2027.9	2007.5	2027.9	2038.2	2048.5	2063.8	2089.5	2130.3	2176.5
10°	1994.7	1997.2	2012.6	2010.0	2012.6	1997.2	1994.7	1989.6	1981.9	1989.6	2017.7
12.5°	2133.0	2156.0	2240.5	2235.4	2240.5	2156.0	2133.0	2030.5	1961.4	1948.6	1953.7
15°	2291.7	2299.3	2317.3	2319.9	2317.3	2299.3	2291.7	2250.7	2043.3	1953.7	1925.5
17.5°	2307.1	2309.6	2322.4	2322.4	2322.4	2309.6	2307.1	2289.2	2220.0	2099.6	1940.9
20°	2294.3	2299.3	2325.0	2330.2	2325.0	2299.3	2294.3	2271.2	2232.8	2189.3	2068.9
22.5°	2289.2	2299.3	2319.9	2317.3	2319.9	2299.3	2289.2	2253.3	2220.0	2189.3	2140.6
25°	2263.5	2263.5	2266.1	2268.6	2266.1	2263.5	2263.5	2235.4	2168.8	2161.1	2133.0
27.5°	2209.8	2214.8	2230.3	2227.7	2230.3	2214.8	2209.8	2199.5	2127.8	2120.2	2099.6
30°	2161.1	2156.0	2143.1	2133.0	2143.1	2156.0	2161.1	2145.8	2074.0	2053.6	2058.6
32.5°	2079.2	2066.4	2053.6	2045.8	2053.6	2066.4	2079.2	2074.0	2020.3	1992.1	1997.2
35°	1981.9	1984.4	1981.9	1974.1	1981.9	1984.4	1981.9	1987.0	1953.7	1928.1	1925.5
37.5°	1912.7	1917.8	1915.3	1905.1	1915.3	1917.8	1912.7	1907.6	1861.5	1853.9	1858.9
40°	1841.0	1843.6	1841.0	1833.3	1841.0	1843.6	1841.0	1830.8	1766.8	1769.3	1787.2
42.5°	1771.9	1769.3	1761.6	1756.5	1761.6	1769.3	1771.9	1756.5	1674.6	1666.9	1700.2
45°	1692.6	1695.1	1679.8	1672.0	1679.8	1695.1	1692.6	1682.3	1597.8	1577.3	1600.3
47.5°	1613.2	1613.2	1600.3	1592.6	1600.3	1613.2	1613.2	1600.3	1510.8	1490.2	1503.0
50°	1528.7	1526.1	1508.2	1505.6	1508.2	1526.1	1528.7	1520.9	1426.3	1408.3	1408.3
52.5°	1431.3	1431.3	1433.9	1439.1	1433.9	1431.3	1431.3	1433.9	1349.4	1331.5	1326.4
55°	1346.8	1349.4	1367.4	1372.5	1367.4	1349.4	1346.8	1346.8	1270.1	1252.1	1241.9
57.5°	1259.8	1259.8	1272.6	1272.6	1272.6	1259.8	1259.8	1254.7	1180.4	1165.0	1159.9
60°	1159.9	1165.0	1175.3	1172.8	1175.3	1165.0	1159.9	1154.9	1090.8	1080.5	1062.6
62.5°	1055.0	1060.1	1062.6	1057.5	1062.6	1060.1	1055.0	1039.5	1001.2	993.5	970.5
65°	944.9	950.0	952.5	947.4	952.5	950.0	944.9	937.1	909.0	896.2	875.7
67.5°	832.2	829.7	827.0	837.3	827.0	829.7	832.2	821.9	804.0	793.8	765.6
70°	717.0	717.0	714.3	719.5	714.3	717.0	717.0	709.3	699.0	691.4	665.7
72.5°	594.1	591.5	601.7	594.1	601.7	591.5	594.1	591.5	586.3	578.7	553.1
75°	473.7	478.8	473.7	481.4	473.7	478.8	473.7	476.3	473.7	468.6	450.7
77.5°	361.0	366.2	361.0	361.0	361.0	366.2	361.0	363.6	363.6	363.6	348.3
80°	256.0	253.5	253.5	251.0	253.5	253.5	256.0	256.0	258.6	253.5	248.4
82.5°	163.9	161.3	161.3	166.5	161.3	161.3	163.9	166.5	161.3	161.3	161.3
85°	89.6	92.2	87.0	87.0	87.0	92.2	89.6	84.5	89.6	89.6	87.0
87.5°	33.3	30.7	30.7	30.7	30.7	30.7	33.3	35.9	35.9	35.9	38.4
90°	45.9	45.9	45.9	45.9	45.9	45.9	45.9	61.2	81.7	91.9	79.0
92.5°	229.7	220.5	184.0	147.5	184.0	220.5	229.7	325.6	453.4	517.3	454.3
95°	779.7	751.9	641.3	530.6	641.3	751.9	779.7	1023.8	1349.3	1512.1	1277.0
97.5°	1799.8	1747.2	1536.5	1326.0	1536.5	1747.2	1799.8	1954.2	2159.9	2262.8	1870.9
100°	2527.4	2464.7	2213.9	1963.0	2213.9	2464.7	2527.4	2516.2	2501.2	2493.6	2058.7
102.5°	3148.8	3095.1	2880.2	2665.3	2880.2	3095.1	3148.8	2952.2	2690.0	2558.9	2117.8
105°	3874.1	3845.2	3729.7	3614.2	3729.7	3845.2	3874.1	3433.3	2845.6	2551.7	2124.5
107.5°	4251.2	4258.2	4286.1	4314.0	4286.1	4258.2	4251.2	3636.4	2816.5	2406.6	2030.1
110°	4347.9	4377.9	4498.3	4618.6	4498.3	4377.9	4347.9	3660.5	2744.0	2285.8	1946.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4286.2	4332.4	4517.2	4702.0	4517.2	4332.4	4286.2	3582.7	2644.7	2175.7	1873.0
115°	4077.1	4141.1	4397.4	4653.6	4397.4	4141.1	4077.1	3399.3	2495.8	2044.0	1789.1
117.5°	3788.2	3859.2	4143.4	4427.7	4143.4	3859.2	3788.2	3176.6	2361.1	1953.3	1736.5
120°	3593.6	3662.6	3938.8	4214.9	3938.8	3662.6	3593.6	3034.8	2289.7	1917.1	1718.8
122.5°	3399.0	3467.1	3739.5	4011.9	3739.5	3467.1	3399.0	2895.8	2224.7	1889.3	1709.6
125°	3141.5	3204.2	3455.2	3706.0	3455.2	3204.2	3141.5	2714.0	2144.0	1859.0	1701.9
127.5°	2934.8	2987.7	3199.4	3411.1	3199.4	2987.7	2934.8	2567.8	2078.3	1833.6	1697.5
130°	2804.3	2853.2	3048.8	3244.3	3048.8	2853.2	2804.3	2477.5	2041.8	1823.9	1700.1
132.5°	2693.0	2736.8	2911.9	3087.1	2911.9	2736.8	2693.0	2400.5	2010.5	1815.5	1702.0
135°	2536.0	2573.7	2724.6	2875.6	2724.6	2573.7	2536.0	2291.0	1964.4	1801.0	1700.3
137.5°	2419.9	2450.8	2574.3	2697.9	2574.3	2450.8	2419.9	2212.8	1936.7	1798.7	1710.8
140°	2326.9	2355.7	2471.2	2586.7	2471.2	2355.7	2326.9	2148.0	1909.4	1790.1	1712.5
142.5°	2261.5	2286.4	2385.8	2485.2	2385.8	2286.4	2261.5	2104.4	1894.9	1790.1	1718.7
145°	2163.7	2182.5	2257.7	2332.9	2257.7	2182.5	2163.7	2035.1	1863.7	1778.0	1718.7
147.5°	2081.4	2097.0	2159.3	2221.6	2159.3	2097.0	2081.4	1980.2	1845.5	1778.0	1730.5
150°	2034.3	2046.9	2097.5	2148.0	2097.5	2046.9	2034.3	1948.9	1835.0	1778.0	1736.6
152.5°	1996.8	2006.3	2044.5	2082.7	2044.5	2006.3	1996.8	1923.9	1826.7	1778.0	1740.7
155°	1952.1	1958.4	1983.7	2008.9	1983.7	1958.4	1952.1	1894.1	1816.7	1778.0	1749.5
157.5°	1913.5	1917.9	1935.6	1953.3	1935.6	1917.9	1913.5	1868.3	1808.2	1778.0	1758.4
160°	1894.1	1896.6	1906.9	1917.1	1906.9	1896.6	1894.1	1855.4	1803.8	1778.0	1762.4
162.5°	1876.0	1878.4	1888.0	1897.7	1888.0	1878.4	1876.0	1843.3	1799.8	1778.0	1766.8
165°	1848.2	1850.7	1861.0	1871.1	1861.0	1850.7	1848.2	1824.8	1793.6	1778.0	1772.9
167.5°	1836.1	1837.1	1841.5	1845.8	1841.5	1837.1	1836.1	1820.8	1800.3	1790.1	1785.9
170°	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1836.1	1820.8	1800.3	1790.1	1789.8
172.5°	1826.4	1825.4	1821.7	1817.9	1821.7	1825.4	1826.4	1814.3	1798.2	1790.1	1790.1
175°	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1813.1	1805.4	1795.3	1790.1	1792.6
177.5°	1810.7	1809.6	1805.2	1801.0	1805.2	1809.6	1810.7	1804.7	1796.6	1792.6	1794.4
180°	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0	1801.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2706.5	2706.5	2706.5	2706.5	2706.5
2.5°	2673.2	2686.1	2693.7	2704.0	2729.6
5°	2570.8	2619.4	2634.8	2673.2	2719.3
7.5°	2345.5	2494.0	2534.9	2627.2	2698.9
10°	2127.8	2276.4	2348.0	2565.7	2673.2
12.5°	2017.7	2104.8	2153.4	2458.2	2637.3
15°	1948.6	2010.0	2045.8	2314.7	2596.4
17.5°	1894.8	1938.4	1964.0	2174.0	2540.0
20°	1861.5	1882.0	1905.1	2071.5	2476.1
22.5°	1838.5	1825.7	1843.6	1999.8	2389.0
25°	1823.1	1774.4	1795.0	1943.4	2286.5
27.5°	1836.0	1728.4	1736.1	1892.3	2179.0
30°	1838.5	1672.0	1674.6	1838.5	2058.6
32.5°	1820.6	1613.2	1615.7	1771.9	1923.0
35°	1777.0	1544.0	1541.5	1695.1	1738.6
37.5°	1718.1	1469.8	1469.8	1610.6	1536.3
40°	1646.4	1395.5	1403.2	1500.5	1357.1
42.5°	1559.4	1316.1	1326.4	1354.6	1223.9
45°	1464.6	1239.4	1247.0	1144.6	1121.5
47.5°	1359.7	1159.9	1162.5	950.0	1088.3
50°	1234.2	1078.0	1067.7	814.3	1085.7
52.5°	1124.0	988.4	957.7	737.4	985.9
55°	1016.6	893.6	827.0	678.6	914.2
57.5°	921.8	770.7	706.7	609.4	898.7
60°	834.7	650.4	601.7	535.2	824.5
62.5°	763.1	560.8	550.5	483.9	747.7
65°	686.2	499.3	496.7	440.4	635.0
67.5°	612.0	458.3	455.8	399.4	483.9
70°	532.6	414.8	409.7	355.9	358.4
72.5°	450.7	366.2	361.0	320.1	297.0
75°	368.7	309.8	307.3	279.1	240.7
77.5°	289.3	245.8	251.0	225.3	176.6
80°	207.4	179.3	184.4	161.3	133.1
82.5°	138.3	117.8	122.9	102.4	89.6
85°	76.8	66.6	69.1	53.8	41.0
87.5°	35.9	30.7	30.7	20.4	12.8
90°	53.2	33.8	31.4	21.8	12.1
92.5°	328.0	233.3	212.8	130.5	48.4
95°	807.0	454.5	416.9	266.5	116.1
97.5°	1087.1	499.2	466.1	333.3	200.7
100°	1189.1	536.7	506.6	386.2	265.9
102.5°	1235.8	574.1	546.0	433.8	321.5
105°	1270.4	629.8	606.0	510.9	415.8
107.5°	1276.9	711.9	689.7	601.2	512.5
110°	1267.2	757.9	737.9	657.9	577.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1267.5	813.5	794.4	718.1	641.9
115°	1279.3	896.9	879.3	808.9	738.6
117.5°	1303.0	977.9	961.9	898.0	834.0
120°	1322.4	1025.0	1010.0	949.8	889.6
122.5°	1350.2	1080.6	1065.4	1004.8	944.0
125°	1387.6	1151.9	1138.1	1082.8	1027.4
127.5°	1425.1	1220.8	1206.9	1151.0	1095.2
130°	1452.5	1266.8	1251.8	1191.6	1131.4
132.5°	1474.7	1304.3	1289.3	1229.1	1168.9
135°	1498.8	1347.8	1334.1	1279.3	1224.4
137.5°	1535.1	1403.3	1389.7	1335.6	1281.3
140°	1557.3	1440.8	1428.3	1378.4	1328.4
142.5°	1575.8	1468.6	1457.1	1410.9	1364.6
145°	1600.0	1511.0	1500.9	1460.6	1420.3
147.5°	1635.5	1564.2	1554.4	1515.1	1475.9
150°	1653.9	1591.9	1583.1	1547.6	1512.1
152.5°	1666.1	1610.1	1603.4	1576.5	1549.6
155°	1692.6	1649.9	1645.0	1625.1	1605.2
157.5°	1719.2	1689.8	1685.0	1665.7	1646.3
160°	1731.3	1708.0	1704.2	1689.2	1674.1
162.5°	1744.2	1727.3	1724.5	1713.2	1702.0
165°	1762.7	1755.1	1752.5	1742.3	1732.1
167.5°	1777.2	1770.8	1769.6	1764.7	1759.9
170°	1789.4	1789.0	1787.7	1782.9	1778.0
172.5°	1790.1	1790.1	1789.8	1788.8	1787.7
175°	1797.4	1801.0	1801.0	1801.0	1801.0
177.5°	1798.2	1801.0	1801.0	1801.0	1801.0
180°	1801.0	1801.0	1801.0	1801.0	1801.0



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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	12.33	13.09	13.38	14.15	15.59	15.16	15.92	16.22	16.98	18.42
	3H	12.80	13.48	13.86	14.54	16.00	16.50	17.18	17.57	18.25	19.71
	4H	12.98	13.63	14.06	14.70	16.16	16.94	17.59	18.02	18.66	20.12
	6H	13.09	13.69	14.18	14.76	16.24	17.23	17.82	18.31	18.89	20.37
	8H	13.09	13.66	14.18	14.75	16.22	17.30	17.86	18.39	18.95	20.42
	12H	13.06	13.60	14.16	14.68	16.18	17.34	17.87	18.43	18.96	20.45
4H	2H	13.35	13.99	14.43	15.06	16.53	15.56	16.20	16.64	17.28	18.74
	3H	14.37	14.90	15.46	16.00	17.48	17.06	17.60	18.15	18.69	20.17
	4H	14.64	15.13	15.73	16.22	17.72	17.58	18.08	18.68	19.17	20.66
	6H	14.76	15.18	15.86	16.29	17.78	17.95	18.37	19.05	19.48	20.97
	8H	14.76	15.15	15.86	16.26	17.76	18.05	18.45	19.16	19.55	21.06
	12H	14.72	15.08	15.84	16.20	17.71	18.10	18.46	19.23	19.58	21.09
8H	4H	15.08	15.48	16.19	16.58	18.09	17.70	18.09	18.80	19.20	20.71
	6H	15.34	15.67	16.47	16.81	18.32	18.13	18.46	19.26	19.61	21.11
	8H	15.38	15.67	16.52	16.79	18.32	18.29	18.57	19.42	19.70	21.22
	12H	15.36	15.61	16.50	16.74	18.30	18.38	18.63	19.52	19.76	21.32
12H	4H	15.09	15.44	16.21	16.56	18.07	17.66	18.02	18.78	19.13	20.65
	6H	15.40	15.69	16.53	16.81	18.34	18.13	18.42	19.26	19.54	21.07
	8H	15.46	15.71	16.60	16.84	18.40	18.29	18.54	19.43	19.66	21.22