

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: P936016

Luminaire Tested: SQ4-FA-150U-100D-835-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

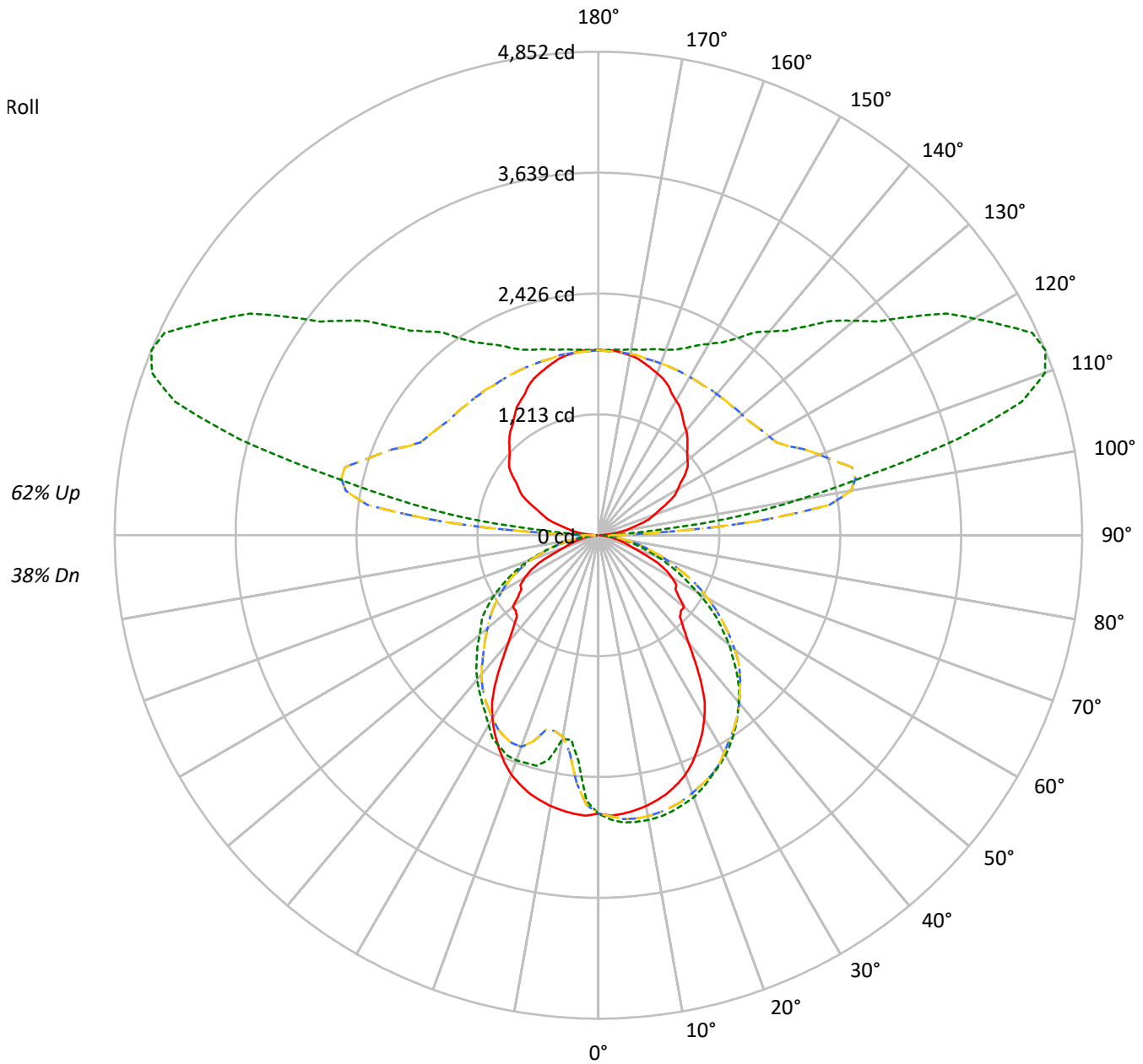
Test Method: LM-79-2019  
Report Number: P936016  
REPORT IS A COMBINATION OF REPORTS P933780 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-835-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19298.0 lumens  
Efficiency: N/A  
Efficacy: 133.3 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				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
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27				27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19				19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10				10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9				9

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

	0°	90°	180°	270°
0°	12959	12959	12959	12959
5°	13056	13081	13056	10286
10°	12968	12886	12968	9212
15°	12827	12607	12827	10527
20°	12559	12276	12559	10549
25°	12010	11794	12010	10325
30°	11300	11393	11300	9835
35°	10074	10887	10074	9295
40°	8394	10290	8394	8888
45°	7500	9592	7500	8419
50°	7968	8760	7968	7949
55°	7497	7863	7497	7677
60°	7728	6678	7728	7031
65°	7006	5520	7006	6170
70°	4851	4400	4851	5172
75°	4254	3252	4254	3894
80°	3428	2150	3428	2341
85°	1970	1139	1970	967

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 11496 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	252.1	1.3
10°-20°	715.9	3.7
20°-30°	1106.6	5.7
30°-40°	1321.0	6.8
40°-50°	1328.8	6.9
50°-60°	1156.2	6.0
60°-70°	819.8	4.2
70°-80°	433.7	2.2
80°-90°	115.1	0.6
90°-100°	906.0	4.7
100°-110°	2381.9	12.3
110°-120°	2469.8	12.8
120°-130°	1981.1	10.3
130°-140°	1554.4	8.1
140°-150°	1193.1	6.2
150°-160°	859.2	4.5
160°-170°	525.7	2.7
170°-180°	177.6	0.9
0°-30°	2074.6	10.8
0°-40°	3395.6	17.6
0°-60°	5880.5	30.5
0°-90°	7249.1	37.6
90°-120°	5757.7	29.8
90°-150°	10486.3	54.3
90°-180°	12049.0	62.4
0°-180°	19298.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2793	2793	2793	2793	2793	
5°	2806	2894	2806	2275	2806	266
15°	2680	2867	2680	2394	2680	754
25°	2360	2674	2360	2341	2360	1083
35°	1794	2386	1794	2037	1794	1110
45°	1157	1966	1157	1726	1157	927
55°	943	1451	943	1416	943	867
65°	655	875	655	978	655	626
75°	248	415	248	497	248	261
85°	42	106	42	90	42	57
90°	12	47	12	47	12	12
95°	120	548	120	548	120	133
105°	429	3730	429	3730	429	455
115°	762	4802	762	4802	762	753
125°	1060	3825	1060	3825	1060	941
135°	1264	2968	1264	2968	1264	978
145°	1466	2408	1466	2408	1466	918
155°	1657	2073	1657	2073	1657	761
165°	1788	1931	1788	1931	1788	504
175°	1859	1871	1859	1871	1859	176
180°	1859	1859	1859	1859	1859	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1
2.5°	2816.9	2816.9	2832.7	2838.0	2838.0	2830.1	2822.2	2830.1	2853.9	2861.8	2859.2
5°	2806.3	2827.4	2856.5	2861.8	2867.1	2864.4	2859.2	2864.4	2890.9	2896.2	2898.8
7.5°	2785.2	2824.8	2861.8	2869.7	2877.7	2869.7	2867.1	2872.4	2898.8	2904.1	2904.1
10°	2758.7	2814.2	2856.5	2861.8	2869.7	2861.8	2861.8	2872.4	2898.8	2904.1	2906.7
12.5°	2721.7	2798.4	2838.0	2843.3	2853.9	2851.2	2848.6	2859.2	2885.6	2890.9	2890.9
15°	2679.5	2769.3	2806.3	2811.6	2830.1	2824.8	2824.8	2835.4	2864.4	2872.4	2869.7
17.5°	2621.3	2732.3	2774.6	2782.5	2795.7	2793.1	2795.7	2806.3	2832.7	2838.0	2840.7
20°	2555.3	2682.1	2732.3	2740.2	2753.5	2753.5	2753.5	2766.7	2793.1	2803.7	2803.7
22.5°	2465.4	2629.3	2682.1	2687.4	2703.2	2703.2	2708.5	2727.0	2750.8	2753.5	2753.5
25°	2359.7	2571.1	2616.0	2631.9	2647.8	2655.7	2663.6	2674.2	2682.1	2679.5	2682.1
27.5°	2248.7	2497.1	2555.3	2565.8	2587.0	2594.9	2605.5	2608.1	2610.8	2618.7	2613.4
30°	2124.5	2394.1	2481.3	2491.9	2526.2	2531.5	2520.9	2526.2	2539.4	2544.7	2550.0
32.5°	1984.5	2240.8	2404.7	2428.4	2460.1	2444.3	2441.6	2449.6	2470.7	2470.7	2476.0
35°	1794.2	2121.9	2333.3	2354.4	2378.2	2359.7	2370.3	2372.9	2386.2	2394.1	2391.4
37.5°	1585.5	2018.8	2259.3	2275.2	2293.7	2269.9	2285.7	2293.7	2304.2	2299.0	2299.0
40°	1400.5	1857.7	2172.1	2182.7	2198.5	2180.0	2195.9	2201.2	2206.5	2201.2	2198.5
42.5°	1263.1	1680.6	2079.6	2092.8	2082.3	2095.5	2100.8	2111.3	2103.4	2092.8	2092.8
45°	1157.4	1633.0	1979.2	1995.1	1979.2	2000.4	2008.3	2008.3	1984.5	1979.2	1976.6
47.5°	1123.1	1537.9	1878.8	1878.8	1870.9	1897.3	1910.5	1892.0	1868.2	1860.3	1860.3
50°	1120.4	1432.2	1741.4	1730.8	1767.8	1799.5	1786.3	1767.8	1749.3	1720.2	1720.2
52.5°	1017.4	1302.7	1564.3	1604.0	1662.1	1680.6	1659.5	1641.0	1609.3	1596.1	1585.5
55°	943.4	1168.0	1403.2	1482.4	1543.2	1567.0	1527.3	1508.9	1461.3	1453.4	1448.1
57.5°	927.5	972.4	1255.2	1355.6	1429.6	1426.9	1403.2	1368.8	1329.2	1321.2	1318.6
60°	850.9	702.9	1096.6	1215.5	1292.2	1284.2	1263.1	1231.4	1194.4	1189.1	1183.8
62.5°	771.6	510.0	916.9	1051.7	1160.0	1157.4	1138.9	1091.3	1064.9	1051.7	1041.1
65°	655.3	428.1	652.7	874.7	1030.6	1035.8	996.2	961.9	932.8	916.9	914.3
67.5°	499.4	348.8	441.3	729.3	906.4	901.1	850.9	835.0	798.0	790.1	774.2
70°	369.9	232.5	306.5	591.9	784.8	771.6	732.0	713.5	679.1	660.6	650.0
72.5°	306.5	187.6	224.6	459.8	660.6	644.8	610.4	589.3	560.2	544.3	533.8
75°	248.4	198.2	171.8	340.9	536.4	525.9	494.1	473.0	449.2	428.1	430.7
77.5°	182.3	185.0	137.4	251.0	425.4	409.6	391.1	364.7	354.1	333.0	333.0
80°	137.4	145.3	103.1	171.8	306.5	306.5	290.7	272.2	253.7	243.1	243.1
82.5°	92.5	92.5	76.6	108.3	208.8	200.8	190.3	185.0	174.4	169.1	169.1
85°	42.3	52.8	47.6	66.1	113.6	118.9	118.9	113.6	111.0	105.7	108.3
87.5°	13.2	23.8	29.1	37.0	58.1	60.8	63.4	63.4	63.4	66.1	66.1
90°	12.5	22.5	32.4	34.9	54.9	81.5	94.8	84.3	63.2	47.4	47.4
92.5°	49.9	134.7	219.6	240.8	338.5	468.8	533.9	467.9	336.0	237.0	227.6
95°	119.8	275.0	430.2	469.0	832.8	1317.9	1560.5	1392.5	1056.6	804.6	776.0
97.5°	207.1	344.0	481.0	515.2	1121.9	1930.8	2335.2	2229.0	2016.7	1857.4	1803.1
100°	274.4	398.6	522.8	553.9	1227.1	2124.6	2573.4	2581.2	2596.7	2608.3	2543.6
102.5°	331.8	447.7	563.5	592.5	1275.3	2185.6	2640.8	2776.1	3046.6	3249.5	3194.1
105°	429.1	527.2	625.4	649.9	1311.0	2192.5	2633.3	2936.6	3543.1	3998.0	3968.2
107.5°	528.9	620.4	711.8	734.7	1317.7	2095.0	2483.6	2906.6	3752.7	4387.2	4394.4
110°	596.3	678.9	761.5	782.1	1307.7	2008.5	2358.9	2831.8	3777.6	4487.0	4518.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	662.4	741.1	819.8	839.5	1308.1	1932.9	2245.3	2729.3	3697.3	4423.3	4471.0
115°	762.2	834.8	907.4	925.6	1320.2	1846.3	2109.4	2575.6	3508.1	4207.5	4273.6
117.5°	860.7	926.7	992.7	1009.2	1344.7	1792.1	2015.8	2436.6	3278.2	3909.4	3982.7
120°	918.1	980.2	1042.3	1057.8	1364.7	1773.8	1978.4	2362.9	3131.9	3708.6	3779.8
122.5°	974.2	1036.9	1099.5	1115.2	1393.4	1764.3	1949.7	2295.9	2988.4	3507.7	3578.0
125°	1060.3	1117.4	1174.5	1188.8	1432.0	1756.3	1918.5	2212.6	2800.8	3242.0	3306.7
127.5°	1130.2	1187.8	1245.5	1259.9	1470.7	1751.8	1892.3	2144.8	2649.9	3028.7	3083.3
130°	1167.6	1229.7	1291.8	1307.3	1499.0	1754.5	1882.3	2107.1	2556.8	2894.0	2944.5
132.5°	1206.3	1268.4	1330.5	1346.0	1521.9	1756.4	1873.6	2074.8	2477.3	2779.2	2824.4
135°	1263.6	1320.2	1376.8	1390.9	1546.8	1754.7	1858.6	2027.2	2364.3	2617.1	2656.0
137.5°	1322.3	1378.3	1434.2	1448.2	1584.2	1765.5	1856.2	1998.7	2283.6	2497.3	2529.2
140°	1370.9	1422.5	1474.0	1486.9	1607.1	1767.3	1847.4	1970.5	2216.7	2401.3	2431.1
142.5°	1408.3	1456.0	1503.7	1515.6	1626.2	1773.7	1847.4	1955.5	2171.7	2333.9	2359.5
145°	1465.7	1507.3	1548.9	1559.3	1651.2	1773.7	1834.9	1923.3	2100.2	2232.9	2252.3
147.5°	1523.1	1563.6	1604.1	1614.2	1687.8	1785.9	1834.9	1904.5	2043.6	2148.0	2164.1
150°	1560.5	1597.1	1633.7	1642.8	1706.8	1792.2	1834.9	1893.7	2011.2	2099.4	2112.4
152.5°	1599.2	1626.9	1654.7	1661.6	1719.4	1796.4	1834.9	1885.1	1985.4	2060.7	2070.5
155°	1656.6	1677.1	1697.6	1702.7	1746.8	1805.5	1834.9	1874.8	1954.7	2014.6	2021.1
157.5°	1699.0	1719.0	1738.9	1743.9	1774.2	1814.7	1834.9	1866.0	1928.1	1974.7	1979.3
160°	1727.7	1743.2	1758.7	1762.6	1786.7	1818.8	1834.9	1861.5	1914.8	1954.7	1957.3
162.5°	1756.4	1768.0	1779.7	1782.6	1800.0	1823.3	1834.9	1857.4	1902.3	1936.0	1938.5
165°	1787.5	1798.0	1808.6	1811.2	1819.1	1829.6	1834.9	1851.0	1883.2	1907.3	1909.9
167.5°	1816.2	1821.2	1826.2	1827.5	1834.1	1843.0	1847.4	1857.9	1879.0	1894.8	1895.9
170°	1834.9	1839.9	1844.9	1846.2	1846.6	1847.1	1847.4	1857.9	1879.0	1894.8	1894.8
172.5°	1844.9	1846.0	1847.1	1847.4	1847.4	1847.4	1847.4	1855.7	1872.3	1884.8	1883.8
175°	1858.6	1858.6	1858.6	1858.6	1854.9	1849.9	1847.4	1852.7	1863.2	1871.1	1871.1
177.5°	1858.6	1858.6	1858.6	1858.6	1855.7	1851.8	1849.9	1854.1	1862.4	1868.6	1867.5
180°	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1
2.5°	2864.4	2856.5	2864.4	2859.2	2861.8	2853.9	2830.1	2822.2	2830.1	2838.0	2838.0
5°	2898.8	2893.5	2898.8	2898.8	2896.2	2890.9	2864.4	2859.2	2864.4	2867.1	2861.8
7.5°	2909.4	2901.4	2909.4	2904.1	2904.1	2898.8	2872.4	2867.1	2869.7	2877.7	2869.7
10°	2909.4	2901.4	2909.4	2906.7	2904.1	2898.8	2872.4	2861.8	2861.8	2869.7	2861.8
12.5°	2896.2	2890.9	2896.2	2890.9	2890.9	2885.6	2859.2	2848.6	2851.2	2853.9	2843.3
15°	2875.0	2867.1	2875.0	2869.7	2872.4	2864.4	2835.4	2824.8	2824.8	2830.1	2811.6
17.5°	2843.3	2832.7	2843.3	2840.7	2838.0	2832.7	2806.3	2795.7	2793.1	2795.7	2782.5
20°	2806.3	2798.4	2806.3	2803.7	2803.7	2793.1	2766.7	2753.5	2753.5	2753.5	2740.2
22.5°	2748.2	2740.2	2748.2	2753.5	2753.5	2750.8	2727.0	2708.5	2703.2	2703.2	2687.4
25°	2682.1	2674.2	2682.1	2682.1	2679.5	2682.1	2674.2	2663.6	2655.7	2647.8	2631.9
27.5°	2618.7	2613.4	2618.7	2613.4	2618.7	2610.8	2608.1	2605.5	2594.9	2587.0	2565.8
30°	2555.3	2550.0	2555.3	2550.0	2544.7	2539.4	2526.2	2520.9	2531.5	2526.2	2491.9
32.5°	2476.0	2470.7	2476.0	2476.0	2470.7	2470.7	2449.6	2441.6	2444.3	2460.1	2428.4
35°	2394.1	2386.2	2394.1	2391.4	2394.1	2386.2	2372.9	2370.3	2359.7	2378.2	2354.4
37.5°	2299.0	2291.0	2299.0	2299.0	2299.0	2304.2	2293.7	2285.7	2269.9	2293.7	2275.2
40°	2201.2	2190.6	2201.2	2198.5	2201.2	2206.5	2201.2	2195.9	2180.0	2198.5	2182.7
42.5°	2090.2	2087.6	2090.2	2092.8	2092.8	2103.4	2111.3	2100.8	2095.5	2082.3	2092.8
45°	1971.3	1966.0	1971.3	1976.6	1979.2	1984.5	2008.3	2008.3	2000.4	1979.2	1995.1
47.5°	1844.4	1831.2	1844.4	1860.3	1860.3	1868.2	1892.0	1910.5	1897.3	1870.9	1878.8
50°	1709.7	1712.3	1709.7	1720.2	1720.2	1749.3	1767.8	1786.3	1799.5	1767.8	1730.8
52.5°	1577.6	1574.9	1577.6	1585.5	1596.1	1609.3	1641.0	1659.5	1680.6	1662.1	1604.0
55°	1445.4	1450.7	1445.4	1448.1	1453.4	1461.3	1508.9	1527.3	1567.0	1543.2	1482.4
57.5°	1313.3	1305.4	1313.3	1318.6	1321.2	1329.2	1368.8	1403.2	1426.9	1429.6	1355.6
60°	1160.0	1149.5	1160.0	1183.8	1189.1	1194.4	1231.4	1263.1	1284.2	1292.2	1215.5
62.5°	1025.3	1006.8	1025.3	1041.1	1051.7	1064.9	1091.3	1138.9	1157.4	1160.0	1051.7
65°	882.6	874.7	882.6	914.3	916.9	932.8	961.9	996.2	1035.8	1030.6	874.7
67.5°	753.1	753.1	753.1	774.2	790.1	798.0	835.0	850.9	901.1	906.4	729.3
70°	634.2	631.6	634.2	650.0	660.6	679.1	713.5	732.0	771.6	784.8	591.9
72.5°	520.6	517.9	520.6	533.8	544.3	560.2	589.3	610.4	644.8	660.6	459.8
75°	420.2	414.9	420.2	430.7	428.1	449.2	473.0	494.1	525.9	536.4	340.9
77.5°	322.4	322.4	322.4	333.0	333.0	354.1	364.7	391.1	409.6	425.4	251.0
80°	240.5	237.8	240.5	243.1	243.1	253.7	272.2	290.7	306.5	306.5	171.8
82.5°	169.1	163.8	169.1	169.1	169.1	174.4	185.0	190.3	200.8	208.8	108.3
85°	105.7	105.7	105.7	108.3	105.7	111.0	113.6	118.9	118.9	113.6	66.1
87.5°	68.7	66.1	68.7	66.1	66.1	63.4	63.4	63.4	60.8	58.1	37.0
90°	47.4	47.4	47.4	47.4	47.4	63.2	84.3	94.8	81.5	54.9	34.9
92.5°	189.9	152.2	189.9	227.6	237.0	336.0	467.9	533.9	468.8	338.5	240.8
95°	661.8	547.6	661.8	776.0	804.6	1056.6	1392.5	1560.5	1317.9	832.8	469.0
97.5°	1585.7	1368.4	1585.7	1803.1	1857.4	2016.7	2229.0	2335.2	1930.8	1121.9	515.2
100°	2284.7	2025.8	2284.7	2543.6	2608.3	2596.7	2581.2	2573.4	2124.6	1227.1	553.9
102.5°	2972.3	2750.6	2972.3	3194.1	3249.5	3046.6	2776.1	2640.8	2185.6	1275.3	592.5
105°	3849.0	3729.8	3849.0	3968.2	3998.0	3543.1	2936.6	2633.3	2192.5	1311.0	649.9
107.5°	4423.2	4452.0	4423.2	4394.4	4387.2	3752.7	2906.6	2483.6	2095.0	1317.7	734.7
110°	4642.2	4766.4	4642.2	4518.0	4487.0	3777.6	2831.8	2358.9	2008.5	1307.7	782.1





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4661.7	4852.4	4661.7	4471.0	4423.3	3697.3	2729.3	2245.3	1932.9	1308.1	839.5
115°	4538.1	4802.5	4538.1	4273.6	4207.5	3508.1	2575.6	2109.4	1846.3	1320.2	925.6
117.5°	4276.0	4569.3	4276.0	3982.7	3909.4	3278.2	2436.6	2015.8	1792.1	1344.7	1009.2
120°	4064.8	4349.7	4064.8	3779.8	3708.6	3131.9	2362.9	1978.4	1773.8	1364.7	1057.8
122.5°	3859.1	4140.2	3859.1	3578.0	3507.7	2988.4	2295.9	1949.7	1764.3	1393.4	1115.2
125°	3565.7	3824.6	3565.7	3306.7	3242.0	2800.8	2212.6	1918.5	1756.3	1432.0	1188.8
127.5°	3301.8	3520.2	3301.8	3083.3	3028.7	2649.9	2144.8	1892.3	1751.8	1470.7	1259.9
130°	3146.3	3348.1	3146.3	2944.5	2894.0	2556.8	2107.1	1882.3	1754.5	1499.0	1307.3
132.5°	3005.1	3185.9	3005.1	2824.4	2779.2	2477.3	2074.8	1873.6	1756.4	1521.9	1346.0
135°	2811.8	2967.6	2811.8	2656.0	2617.1	2364.3	2027.2	1858.6	1754.7	1546.8	1390.9
137.5°	2656.7	2784.2	2656.7	2529.2	2497.3	2283.6	1998.7	1856.2	1765.5	1584.2	1448.2
140°	2550.3	2669.5	2550.3	2431.1	2401.3	2216.7	1970.5	1847.4	1767.3	1607.1	1486.9
142.5°	2462.1	2564.7	2462.1	2359.5	2333.9	2171.7	1955.5	1847.4	1773.7	1626.2	1515.6
145°	2329.9	2407.5	2329.9	2252.3	2232.9	2100.2	1923.3	1834.9	1773.7	1651.2	1559.3
147.5°	2228.4	2292.7	2228.4	2164.1	2148.0	2043.6	1904.5	1834.9	1785.9	1687.8	1614.2
150°	2164.6	2216.7	2164.6	2112.4	2099.4	2011.2	1893.7	1834.9	1792.2	1706.8	1642.8
152.5°	2109.9	2149.3	2109.9	2070.5	2060.7	1985.4	1885.1	1834.9	1796.4	1719.4	1661.6
155°	2047.2	2073.2	2047.2	2021.1	2014.6	1954.7	1874.8	1834.9	1805.5	1746.8	1702.7
157.5°	1997.5	2015.8	1997.5	1979.3	1974.7	1928.1	1866.0	1834.9	1814.7	1774.2	1743.9
160°	1967.9	1978.4	1967.9	1957.3	1954.7	1914.8	1861.5	1834.9	1818.8	1786.7	1762.6
162.5°	1948.4	1958.4	1948.4	1938.5	1936.0	1902.3	1857.4	1834.9	1823.3	1800.0	1782.6
165°	1920.5	1931.0	1920.5	1909.9	1907.3	1883.2	1851.0	1834.9	1829.6	1819.1	1811.2
167.5°	1900.4	1904.8	1900.4	1895.9	1894.8	1879.0	1857.9	1847.4	1843.0	1834.1	1827.5
170°	1894.8	1894.8	1894.8	1894.8	1894.8	1879.0	1857.9	1847.4	1847.1	1846.6	1846.2
172.5°	1880.0	1876.1	1880.0	1883.8	1884.8	1872.3	1855.7	1847.4	1847.4	1847.4	1847.4
175°	1871.1	1871.1	1871.1	1871.1	1871.1	1863.2	1852.7	1847.4	1849.9	1854.9	1858.6
177.5°	1863.0	1858.6	1863.0	1867.5	1868.6	1862.4	1854.1	1849.9	1851.8	1855.7	1858.6
180°	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1
2.5°	2832.7	2816.9	2816.9	2790.5	2779.9	2772.0	2758.7	2719.1	2708.5	2698.0	2713.8
5°	2856.5	2827.4	2806.3	2758.7	2719.1	2703.2	2653.0	2557.9	2494.5	2446.9	2420.5
7.5°	2861.8	2824.8	2785.2	2711.2	2616.0	2573.8	2420.5	2246.1	2198.5	2156.3	2129.8
10°	2856.5	2814.2	2758.7	2647.8	2423.1	2349.2	2195.9	2082.3	2053.2	2045.3	2053.2
12.5°	2838.0	2798.4	2721.7	2536.8	2222.3	2172.1	2082.3	2016.2	2010.9	2024.1	2095.5
15°	2806.3	2769.3	2679.5	2388.8	2111.3	2074.3	2010.9	1987.1	2016.2	2108.7	2322.7
17.5°	2774.6	2732.3	2621.3	2243.5	2026.8	2000.4	1955.4	2003.0	2166.8	2291.0	2362.4
20°	2732.3	2682.1	2555.3	2137.8	1966.0	1942.2	1921.1	2135.1	2259.3	2304.2	2343.9
22.5°	2682.1	2629.3	2465.4	2063.8	1902.6	1884.1	1897.3	2209.1	2259.3	2291.0	2325.4
25°	2616.0	2571.1	2359.7	2005.6	1852.4	1831.2	1881.4	2201.2	2230.2	2238.2	2306.9
27.5°	2555.3	2497.1	2248.7	1952.8	1791.6	1783.7	1894.7	2166.8	2188.0	2195.9	2269.9
30°	2481.3	2394.1	2124.5	1897.3	1728.2	1725.5	1897.3	2124.5	2119.3	2140.4	2214.4
32.5°	2404.7	2240.8	1984.5	1828.6	1667.4	1664.8	1878.8	2061.1	2055.8	2084.9	2140.4
35°	2333.3	2121.9	1794.2	1749.3	1590.8	1593.4	1833.9	1987.1	1989.8	2016.2	2050.6
37.5°	2259.3	2018.8	1585.5	1662.1	1516.8	1516.8	1773.1	1918.4	1913.2	1921.1	1968.6
40°	2172.1	1857.7	1400.5	1548.5	1448.1	1440.1	1699.1	1844.4	1825.9	1823.3	1889.4
42.5°	2079.6	1680.6	1263.1	1397.9	1368.8	1358.2	1609.3	1754.6	1720.2	1728.2	1812.7
45°	1979.2	1633.0	1157.4	1181.2	1286.9	1279.0	1511.5	1651.5	1627.8	1648.9	1736.1
47.5°	1878.8	1537.9	1123.1	980.4	1199.7	1197.0	1403.2	1551.1	1537.9	1559.1	1651.5
50°	1741.4	1432.2	1120.4	840.3	1101.9	1112.5	1273.7	1453.4	1453.4	1471.9	1569.6
52.5°	1564.3	1302.7	1017.4	761.0	988.3	1020.0	1160.0	1368.8	1374.1	1392.6	1479.8
55°	1403.2	1168.0	943.4	700.3	853.5	922.2	1049.1	1281.6	1292.2	1310.7	1389.9
57.5°	1255.2	972.4	927.5	628.9	729.3	795.4	951.3	1197.0	1202.3	1218.2	1294.8
60°	1096.6	702.9	850.9	552.3	621.0	671.2	861.4	1096.6	1115.1	1125.7	1191.8
62.5°	916.9	510.0	771.6	499.4	568.1	578.7	787.5	1001.5	1025.3	1033.2	1072.8
65°	652.7	428.1	655.3	454.5	512.6	515.3	708.2	903.7	924.9	938.1	967.1
67.5°	441.3	348.8	499.4	412.2	470.4	473.0	631.6	790.1	819.2	829.7	848.2
70°	306.5	232.5	369.9	367.3	422.8	428.1	549.6	687.0	713.5	721.4	732.0
72.5°	224.6	187.6	306.5	330.3	372.6	377.9	465.1	570.8	597.2	605.1	610.4
75°	171.8	198.2	248.4	288.0	317.1	319.7	380.5	465.1	483.6	488.9	491.5
77.5°	137.4	185.0	182.3	232.5	259.0	253.7	298.6	359.4	375.2	375.2	375.2
80°	103.1	145.3	137.4	166.5	190.3	185.0	214.0	256.3	261.6	266.9	264.2
82.5°	76.6	92.5	92.5	105.7	126.8	121.6	142.7	166.5	166.5	166.5	171.8
85°	47.6	52.8	42.3	55.5	71.3	68.7	79.3	89.8	92.5	92.5	87.2
87.5°	29.1	23.8	13.2	21.1	31.7	31.7	37.0	39.6	37.0	37.0	37.0
90°	32.4	22.5	12.5	22.5	32.4	34.9	54.9	81.5	94.8	84.3	63.2
92.5°	219.6	134.7	49.9	134.7	219.6	240.8	338.5	468.8	533.9	467.9	336.0
95°	430.2	275.0	119.8	275.0	430.2	469.0	832.8	1317.9	1560.5	1392.5	1056.6
97.5°	481.0	344.0	207.1	344.0	481.0	515.2	1121.9	1930.8	2335.2	2229.0	2016.7
100°	522.8	398.6	274.4	398.6	522.8	553.9	1227.1	2124.6	2573.4	2581.2	2596.7
102.5°	563.5	447.7	331.8	447.7	563.5	592.5	1275.3	2185.6	2640.8	2776.1	3046.6
105°	625.4	527.2	429.1	527.2	625.4	649.9	1311.0	2192.5	2633.3	2936.6	3543.1
107.5°	711.8	620.4	528.9	620.4	711.8	734.7	1317.7	2095.0	2483.6	2906.6	3752.7
110°	761.5	678.9	596.3	678.9	761.5	782.1	1307.7	2008.5	2358.9	2831.8	3777.6



TEST NUMBER: P936016

CATALOG NUMBER: SQ4-FA-150U-100D-835-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	819.8	741.1	662.4	741.1	819.8	839.5	1308.1	1932.9	2245.3	2729.3	3697.3
115°	907.4	834.8	762.2	834.8	907.4	925.6	1320.2	1846.3	2109.4	2575.6	3508.1
117.5°	992.7	926.7	860.7	926.7	992.7	1009.2	1344.7	1792.1	2015.8	2436.6	3278.2
120°	1042.3	980.2	918.1	980.2	1042.3	1057.8	1364.7	1773.8	1978.4	2362.9	3131.9
122.5°	1099.5	1036.9	974.2	1036.9	1099.5	1115.2	1393.4	1764.3	1949.7	2295.9	2988.4
125°	1174.5	1117.4	1060.3	1117.4	1174.5	1188.8	1432.0	1756.3	1918.5	2212.6	2800.8
127.5°	1245.5	1187.8	1130.2	1187.8	1245.5	1259.9	1470.7	1751.8	1892.3	2144.8	2649.9
130°	1291.8	1229.7	1167.6	1229.7	1291.8	1307.3	1499.0	1754.5	1882.3	2107.1	2556.8
132.5°	1330.5	1268.4	1206.3	1268.4	1330.5	1346.0	1521.9	1756.4	1873.6	2074.8	2477.3
135°	1376.8	1320.2	1263.6	1320.2	1376.8	1390.9	1546.8	1754.7	1858.6	2027.2	2364.3
137.5°	1434.2	1378.3	1322.3	1378.3	1434.2	1448.2	1584.2	1765.5	1856.2	1998.7	2283.6
140°	1474.0	1422.5	1370.9	1422.5	1474.0	1486.9	1607.1	1767.3	1847.4	1970.5	2216.7
142.5°	1503.7	1456.0	1408.3	1456.0	1503.7	1515.6	1626.2	1773.7	1847.4	1955.5	2171.7
145°	1548.9	1507.3	1465.7	1507.3	1548.9	1559.3	1651.2	1773.7	1834.9	1923.3	2100.2
147.5°	1604.1	1563.6	1523.1	1563.6	1604.1	1614.2	1687.8	1785.9	1834.9	1904.5	2043.6
150°	1633.7	1597.1	1560.5	1597.1	1633.7	1642.8	1706.8	1792.2	1834.9	1893.7	2011.2
152.5°	1654.7	1626.9	1599.2	1626.9	1654.7	1661.6	1719.4	1796.4	1834.9	1885.1	1985.4
155°	1697.6	1677.1	1656.6	1677.1	1697.6	1702.7	1746.8	1805.5	1834.9	1874.8	1954.7
157.5°	1738.9	1719.0	1699.0	1719.0	1738.9	1743.9	1774.2	1814.7	1834.9	1866.0	1928.1
160°	1758.7	1743.2	1727.7	1743.2	1758.7	1762.6	1786.7	1818.8	1834.9	1861.5	1914.8
162.5°	1779.7	1768.0	1756.4	1768.0	1779.7	1782.6	1800.0	1823.3	1834.9	1857.4	1902.3
165°	1808.6	1798.0	1787.5	1798.0	1808.6	1811.2	1819.1	1829.6	1834.9	1851.0	1883.2
167.5°	1826.2	1821.2	1816.2	1821.2	1826.2	1827.5	1834.1	1843.0	1847.4	1857.9	1879.0
170°	1844.9	1839.9	1834.9	1839.9	1844.9	1846.2	1846.6	1847.1	1847.4	1857.9	1879.0
172.5°	1847.1	1846.0	1844.9	1846.0	1847.1	1847.4	1847.4	1847.4	1847.4	1855.7	1872.3
175°	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1854.9	1849.9	1847.4	1852.7	1863.2
177.5°	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1855.7	1851.8	1849.9	1854.1	1862.4
180°	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6



TEST NUMBER: P936016  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1
2.5°	2695.3	2687.4	2698.0	2668.9	2698.0	2687.4	2695.3	2713.8	2698.0	2708.5	2719.1
5°	2365.0	2351.8	2309.5	2275.2	2309.5	2351.8	2365.0	2420.5	2446.9	2494.5	2557.9
7.5°	2114.0	2103.4	2092.8	2071.7	2092.8	2103.4	2114.0	2129.8	2156.3	2198.5	2246.1
10°	2058.5	2061.1	2077.0	2074.3	2077.0	2061.1	2058.5	2053.2	2045.3	2053.2	2082.3
12.5°	2201.2	2225.0	2312.2	2306.9	2312.2	2225.0	2201.2	2095.5	2024.1	2010.9	2016.2
15°	2365.0	2372.9	2391.4	2394.1	2391.4	2372.9	2365.0	2322.7	2108.7	2016.2	1987.1
17.5°	2380.9	2383.5	2396.7	2396.7	2396.7	2383.5	2380.9	2362.4	2291.0	2166.8	2003.0
20°	2367.7	2372.9	2399.4	2404.7	2399.4	2372.9	2367.7	2343.9	2304.2	2259.3	2135.1
22.5°	2362.4	2372.9	2394.1	2391.4	2394.1	2372.9	2362.4	2325.4	2291.0	2259.3	2209.1
25°	2335.9	2335.9	2338.6	2341.2	2338.6	2335.9	2335.9	2306.9	2238.2	2230.2	2201.2
27.5°	2280.5	2285.7	2301.6	2299.0	2301.6	2285.7	2280.5	2269.9	2195.9	2188.0	2166.8
30°	2230.2	2225.0	2211.7	2201.2	2211.7	2225.0	2230.2	2214.4	2140.4	2119.3	2124.5
32.5°	2145.7	2132.5	2119.3	2111.3	2119.3	2132.5	2145.7	2140.4	2084.9	2055.8	2061.1
35°	2045.3	2047.9	2045.3	2037.3	2045.3	2047.9	2045.3	2050.6	2016.2	1989.8	1987.1
37.5°	1973.9	1979.2	1976.6	1966.0	1976.6	1979.2	1973.9	1968.6	1921.1	1913.2	1918.4
40°	1899.9	1902.6	1899.9	1892.0	1899.9	1902.6	1899.9	1889.4	1823.3	1825.9	1844.4
42.5°	1828.6	1825.9	1818.0	1812.7	1818.0	1825.9	1828.6	1812.7	1728.2	1720.2	1754.6
45°	1746.7	1749.3	1733.5	1725.5	1733.5	1749.3	1746.7	1736.1	1648.9	1627.8	1651.5
47.5°	1664.8	1664.8	1651.5	1643.6	1651.5	1664.8	1664.8	1651.5	1559.1	1537.9	1551.1
50°	1577.6	1574.9	1556.4	1553.8	1556.4	1574.9	1577.6	1569.6	1471.9	1453.4	1453.4
52.5°	1477.1	1477.1	1479.8	1485.1	1479.8	1477.1	1477.1	1479.8	1392.6	1374.1	1368.8
55°	1389.9	1392.6	1411.1	1416.4	1411.1	1392.6	1389.9	1389.9	1310.7	1292.2	1281.6
57.5°	1300.1	1300.1	1313.3	1313.3	1313.3	1300.1	1300.1	1294.8	1218.2	1202.3	1197.0
60°	1197.0	1202.3	1212.9	1210.3	1212.9	1202.3	1197.0	1191.8	1125.7	1115.1	1096.6
62.5°	1088.7	1094.0	1096.6	1091.3	1096.6	1094.0	1088.7	1072.8	1033.2	1025.3	1001.5
65°	975.1	980.4	983.0	977.7	983.0	980.4	975.1	967.1	938.1	924.9	903.7
67.5°	858.8	856.2	853.5	864.1	853.5	856.2	858.8	848.2	829.7	819.2	790.1
70°	739.9	739.9	737.2	742.5	737.2	739.9	739.9	732.0	721.4	713.5	687.0
72.5°	613.1	610.4	621.0	613.1	621.0	610.4	613.1	610.4	605.1	597.2	570.8
75°	488.9	494.1	488.9	496.8	488.9	494.1	488.9	491.5	488.9	483.6	465.1
77.5°	372.6	377.9	372.6	372.6	372.6	377.9	372.6	375.2	375.2	375.2	359.4
80°	264.2	261.6	261.6	259.0	261.6	261.6	264.2	264.2	266.9	261.6	256.3
82.5°	169.1	166.5	166.5	171.8	166.5	166.5	169.1	171.8	166.5	166.5	166.5
85°	92.5	95.1	89.8	89.8	89.8	95.1	92.5	87.2	92.5	92.5	89.8
87.5°	34.4	31.7	31.7	31.7	31.7	31.7	34.4	37.0	37.0	37.0	39.6
90°	47.4	47.4	47.4	47.4	47.4	47.4	47.4	63.2	84.3	94.8	81.5
92.5°	237.0	227.6	189.9	152.2	189.9	227.6	237.0	336.0	467.9	533.9	468.8
95°	804.6	776.0	661.8	547.6	661.8	776.0	804.6	1056.6	1392.5	1560.5	1317.9
97.5°	1857.4	1803.1	1585.7	1368.4	1585.7	1803.1	1857.4	2016.7	2229.0	2335.2	1930.8
100°	2608.3	2543.6	2284.7	2025.8	2284.7	2543.6	2608.3	2596.7	2581.2	2573.4	2124.6
102.5°	3249.5	3194.1	2972.3	2750.6	2972.3	3194.1	3249.5	3046.6	2776.1	2640.8	2185.6
105°	3998.0	3968.2	3849.0	3729.8	3849.0	3968.2	3998.0	3543.1	2936.6	2633.3	2192.5
107.5°	4387.2	4394.4	4423.2	4452.0	4423.2	4394.4	4387.2	3752.7	2906.6	2483.6	2095.0
110°	4487.0	4518.0	4642.2	4766.4	4642.2	4518.0	4487.0	3777.6	2831.8	2358.9	2008.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4423.3	4471.0	4661.7	4852.4	4661.7	4471.0	4423.3	3697.3	2729.3	2245.3	1932.9
115°	4207.5	4273.6	4538.1	4802.5	4538.1	4273.6	4207.5	3508.1	2575.6	2109.4	1846.3
117.5°	3909.4	3982.7	4276.0	4569.3	4276.0	3982.7	3909.4	3278.2	2436.6	2015.8	1792.1
120°	3708.6	3779.8	4064.8	4349.7	4064.8	3779.8	3708.6	3131.9	2362.9	1978.4	1773.8
122.5°	3507.7	3578.0	3859.1	4140.2	3859.1	3578.0	3507.7	2988.4	2295.9	1949.7	1764.3
125°	3242.0	3306.7	3565.7	3824.6	3565.7	3306.7	3242.0	2800.8	2212.6	1918.5	1756.3
127.5°	3028.7	3083.3	3301.8	3520.2	3301.8	3083.3	3028.7	2649.9	2144.8	1892.3	1751.8
130°	2894.0	2944.5	3146.3	3348.1	3146.3	2944.5	2894.0	2556.8	2107.1	1882.3	1754.5
132.5°	2779.2	2824.4	3005.1	3185.9	3005.1	2824.4	2779.2	2477.3	2074.8	1873.6	1756.4
135°	2617.1	2656.0	2811.8	2967.6	2811.8	2656.0	2617.1	2364.3	2027.2	1858.6	1754.7
137.5°	2497.3	2529.2	2656.7	2784.2	2656.7	2529.2	2497.3	2283.6	1998.7	1856.2	1765.5
140°	2401.3	2431.1	2550.3	2669.5	2550.3	2431.1	2401.3	2216.7	1970.5	1847.4	1767.3
142.5°	2333.9	2359.5	2462.1	2564.7	2462.1	2359.5	2333.9	2171.7	1955.5	1847.4	1773.7
145°	2232.9	2252.3	2329.9	2407.5	2329.9	2252.3	2232.9	2100.2	1923.3	1834.9	1773.7
147.5°	2148.0	2164.1	2228.4	2292.7	2228.4	2164.1	2148.0	2043.6	1904.5	1834.9	1785.9
150°	2099.4	2112.4	2164.6	2216.7	2164.6	2112.4	2099.4	2011.2	1893.7	1834.9	1792.2
152.5°	2060.7	2070.5	2109.9	2149.3	2109.9	2070.5	2060.7	1985.4	1885.1	1834.9	1796.4
155°	2014.6	2021.1	2047.2	2073.2	2047.2	2021.1	2014.6	1954.7	1874.8	1834.9	1805.5
157.5°	1974.7	1979.3	1997.5	2015.8	1997.5	1979.3	1974.7	1928.1	1866.0	1834.9	1814.7
160°	1954.7	1957.3	1967.9	1978.4	1967.9	1957.3	1954.7	1914.8	1861.5	1834.9	1818.8
162.5°	1936.0	1938.5	1948.4	1958.4	1948.4	1938.5	1936.0	1902.3	1857.4	1834.9	1823.3
165°	1907.3	1909.9	1920.5	1931.0	1920.5	1909.9	1907.3	1883.2	1851.0	1834.9	1829.6
167.5°	1894.8	1895.9	1900.4	1904.8	1900.4	1895.9	1894.8	1879.0	1857.9	1847.4	1843.0
170°	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1894.8	1879.0	1857.9	1847.4	1847.1
172.5°	1884.8	1883.8	1880.0	1876.1	1880.0	1883.8	1884.8	1872.3	1855.7	1847.4	1847.4
175°	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1871.1	1863.2	1852.7	1847.4	1849.9
177.5°	1868.6	1867.5	1863.0	1858.6	1863.0	1867.5	1868.6	1862.4	1854.1	1849.9	1851.8
180°	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6	1858.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2793.1	2793.1	2793.1	2793.1	2793.1
2.5°	2758.7	2772.0	2779.9	2790.5	2816.9
5°	2653.0	2703.2	2719.1	2758.7	2806.3
7.5°	2420.5	2573.8	2616.0	2711.2	2785.2
10°	2195.9	2349.2	2423.1	2647.8	2758.7
12.5°	2082.3	2172.1	2222.3	2536.8	2721.7
15°	2010.9	2074.3	2111.3	2388.8	2679.5
17.5°	1955.4	2000.4	2026.8	2243.5	2621.3
20°	1921.1	1942.2	1966.0	2137.8	2555.3
22.5°	1897.3	1884.1	1902.6	2063.8	2465.4
25°	1881.4	1831.2	1852.4	2005.6	2359.7
27.5°	1894.7	1783.7	1791.6	1952.8	2248.7
30°	1897.3	1725.5	1728.2	1897.3	2124.5
32.5°	1878.8	1664.8	1667.4	1828.6	1984.5
35°	1833.9	1593.4	1590.8	1749.3	1794.2
37.5°	1773.1	1516.8	1516.8	1662.1	1585.5
40°	1699.1	1440.1	1448.1	1548.5	1400.5
42.5°	1609.3	1358.2	1368.8	1397.9	1263.1
45°	1511.5	1279.0	1286.9	1181.2	1157.4
47.5°	1403.2	1197.0	1199.7	980.4	1123.1
50°	1273.7	1112.5	1101.9	840.3	1120.4
52.5°	1160.0	1020.0	988.3	761.0	1017.4
55°	1049.1	922.2	853.5	700.3	943.4
57.5°	951.3	795.4	729.3	628.9	927.5
60°	861.4	671.2	621.0	552.3	850.9
62.5°	787.5	578.7	568.1	499.4	771.6
65°	708.2	515.3	512.6	454.5	655.3
67.5°	631.6	473.0	470.4	412.2	499.4
70°	549.6	428.1	422.8	367.3	369.9
72.5°	465.1	377.9	372.6	330.3	306.5
75°	380.5	319.7	317.1	288.0	248.4
77.5°	298.6	253.7	259.0	232.5	182.3
80°	214.0	185.0	190.3	166.5	137.4
82.5°	142.7	121.6	126.8	105.7	92.5
85°	79.3	68.7	71.3	55.5	42.3
87.5°	37.0	31.7	31.7	21.1	13.2
90°	54.9	34.9	32.4	22.5	12.5
92.5°	338.5	240.8	219.6	134.7	49.9
95°	832.8	469.0	430.2	275.0	119.8
97.5°	1121.9	515.2	481.0	344.0	207.1
100°	1227.1	553.9	522.8	398.6	274.4
102.5°	1275.3	592.5	563.5	447.7	331.8
105°	1311.0	649.9	625.4	527.2	429.1
107.5°	1317.7	734.7	711.8	620.4	528.9
110°	1307.7	782.1	761.5	678.9	596.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1308.1	839.5	819.8	741.1	662.4
115°	1320.2	925.6	907.4	834.8	762.2
117.5°	1344.7	1009.2	992.7	926.7	860.7
120°	1364.7	1057.8	1042.3	980.2	918.1
122.5°	1393.4	1115.2	1099.5	1036.9	974.2
125°	1432.0	1188.8	1174.5	1117.4	1060.3
127.5°	1470.7	1259.9	1245.5	1187.8	1130.2
130°	1499.0	1307.3	1291.8	1229.7	1167.6
132.5°	1521.9	1346.0	1330.5	1268.4	1206.3
135°	1546.8	1390.9	1376.8	1320.2	1263.6
137.5°	1584.2	1448.2	1434.2	1378.3	1322.3
140°	1607.1	1486.9	1474.0	1422.5	1370.9
142.5°	1626.2	1515.6	1503.7	1456.0	1408.3
145°	1651.2	1559.3	1548.9	1507.3	1465.7
147.5°	1687.8	1614.2	1604.1	1563.6	1523.1
150°	1706.8	1642.8	1633.7	1597.1	1560.5
152.5°	1719.4	1661.6	1654.7	1626.9	1599.2
155°	1746.8	1702.7	1697.6	1677.1	1656.6
157.5°	1774.2	1743.9	1738.9	1719.0	1699.0
160°	1786.7	1762.6	1758.7	1743.2	1727.7
162.5°	1800.0	1782.6	1779.7	1768.0	1756.4
165°	1819.1	1811.2	1808.6	1798.0	1787.5
167.5°	1834.1	1827.5	1826.2	1821.2	1816.2
170°	1846.6	1846.2	1844.9	1839.9	1834.9
172.5°	1847.4	1847.4	1847.1	1846.0	1844.9
175°	1854.9	1858.6	1858.6	1858.6	1858.6
177.5°	1855.7	1858.6	1858.6	1858.6	1858.6
180°	1858.6	1858.6	1858.6	1858.6	1858.6



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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	12.44	13.20	13.49	14.26	15.69	15.27	16.03	16.33	17.09	18.53
	3H	12.90	13.58	13.97	14.65	16.11	16.61	17.29	17.68	18.36	19.82
	4H	13.09	13.74	14.17	14.81	16.27	17.05	17.70	18.13	18.77	20.23
	6H	13.20	13.80	14.29	14.87	16.35	17.34	17.93	18.42	19.00	20.48
	8H	13.20	13.77	14.29	14.86	16.33	17.41	17.97	18.50	19.06	20.53
	12H	13.17	13.71	14.27	14.79	16.28	17.44	17.98	18.54	19.07	20.56
4H	2H	13.46	14.10	14.54	15.17	16.64	15.67	16.31	16.75	17.39	18.85
	3H	14.47	15.01	15.57	16.11	17.59	17.17	17.71	18.26	18.80	20.28
	4H	14.75	15.24	15.84	16.33	17.83	17.69	18.19	18.79	19.27	20.77
	6H	14.87	15.29	15.97	16.40	17.89	18.05	18.48	19.16	19.59	21.08
	8H	14.87	15.26	15.97	16.37	17.87	18.16	18.55	19.27	19.66	21.17
	12H	14.83	15.19	15.95	16.31	17.82	18.21	18.57	19.34	19.69	21.20
8H	4H	15.19	15.59	16.30	16.69	18.20	17.81	18.20	18.91	19.31	20.81
	6H	15.45	15.78	16.58	16.92	18.43	18.24	18.57	19.37	19.72	21.22
	8H	15.49	15.78	16.63	16.90	18.43	18.40	18.68	19.53	19.81	21.33
	12H	15.47	15.72	16.61	16.85	18.41	18.49	18.74	19.63	19.86	21.43
12H	4H	15.19	15.55	16.32	16.67	18.18	17.77	18.13	18.89	19.24	20.75
	6H	15.51	15.80	16.64	16.92	18.45	18.24	18.53	19.37	19.65	21.18
	8H	15.57	15.82	16.71	16.95	18.51	18.40	18.65	19.53	19.77	21.33