

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: P936112

Luminaire Tested: SQ4-FA-150U-125D-830-1D-UNV-STD-W-8

Issue Date: 12/17/2024

**Test Information**

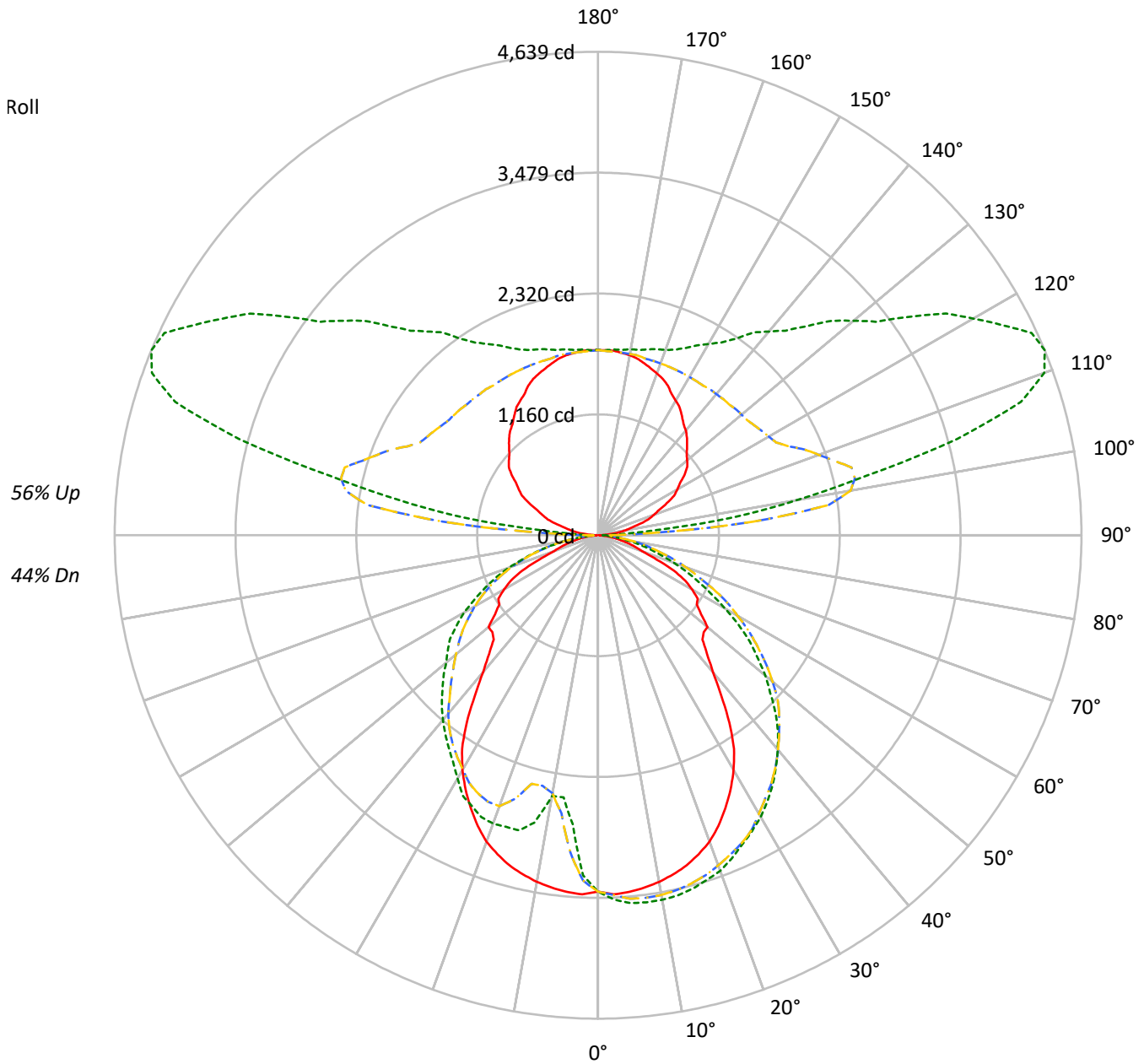
Test Method: LM-79-2019  
Report Number: P936112  
REPORT IS A COMBINATION OF REPORTS P933784 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-125D-830-1D-UNV-STD-W-8  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 20392.4 lumens  
Efficiency: N/A  
Efficacy: 122.6 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: General Diffuse  
  
Input Watts (W): 166.4  
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	106	106	106	106	97	97	97	97	80	80	80	64	64	64	50	50	50	44	44	44	44
1	96	92	88	85	88	84	81	78	70	68	66	57	55	54	44	43	42	37	37	37	37
2	88	80	74	69	80	74	69	64	61	58	54	50	47	45	39	37	36	31	31	31	31
3	80	71	63	58	73	65	59	54	54	49	46	44	41	38	35	32	30	26	26	26	26
4	73	63	55	49	67	57	51	45	48	43	39	39	35	32	31	28	26	22	22	22	22
5	67	56	48	42	61	51	44	39	43	37	33	35	31	28	28	25	23	19	19	19	19
6	62	50	42	36	56	46	39	34	39	33	29	32	28	24	25	22	20	17	17	17	17
7	57	45	37	31	52	41	34	29	35	29	25	29	25	22	23	20	18	15	15	15	15
8	53	41	33	28	48	38	31	26	32	26	23	26	22	19	21	18	16	13	13	13	13
9	49	37	30	25	45	34	28	23	29	24	20	24	20	17	19	16	14	12	12	12	12
10	46	34	27	22	42	31	25	21	27	22	18	22	18	16	18	15	13	11	11	11	11

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

	0°	90°	180°	270°
0°	15867	15867	15867	15867
5°	15985	16016	15985	12594
10°	15878	15777	15878	11280
15°	15706	15435	15706	12889
20°	15377	15030	15377	12916
25°	14705	14440	14705	12642
30°	13836	13949	13836	12041
35°	12335	13329	12335	11381
40°	10278	12599	10278	10882
45°	9183	11744	9183	10308
50°	9756	10725	9756	9732
55°	9179	9627	9179	9399
60°	9462	8176	9462	8608
65°	8579	6759	8579	7555
70°	5941	5386	5941	6333
75°	5208	3981	5208	4767
80°	4199	2632	4199	2867
85°	2408	1394	2408	1185

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 14075 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	308.7	1.5
10°-20°	876.5	4.3
20°-30°	1354.9	6.6
30°-40°	1617.4	7.9
40°-50°	1626.9	8.0
50°-60°	1415.6	6.9
60°-70°	1003.7	4.9
70°-80°	531.0	2.6
80°-90°	139.0	0.7
90°-100°	866.1	4.2
100°-110°	2277.1	11.2
110°-120°	2361.1	11.6
120°-130°	1893.9	9.3
130°-140°	1486.0	7.3
140°-150°	1140.6	5.6
150°-160°	821.4	4.0
160°-170°	502.6	2.5
170°-180°	169.8	0.8
0°-30°	2540.0	12.5
0°-40°	4157.5	20.4
0°-60°	7200.0	35.3
0°-90°	8873.7	43.5
90°-120°	5504.4	27.0
90°-150°	10024.9	49.2
90°-180°	11519.0	56.5
0°-180°	20392.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3420	3420	3420	3420	3420	
5°	3436	3543	3436	2786	3436	326
15°	3281	3510	3281	2931	3281	923
25°	2889	3274	2889	2867	2889	1327
35°	2197	2922	2197	2494	2197	1359
45°	1417	2407	1417	2113	1417	1135
55°	1155	1776	1155	1734	1155	1061
65°	802	1071	802	1197	802	767
75°	304	508	304	608	304	320
85°	52	129	52	110	52	70
90°	12	45	12	45	12	12
95°	114	524	114	524	114	127
105°	410	3566	410	3566	410	435
115°	729	4591	729	4591	729	720
125°	1014	3656	1014	3656	1014	900
135°	1208	2837	1208	2837	1208	935
145°	1401	2302	1401	2302	1401	878
155°	1584	1982	1584	1982	1584	728
165°	1709	1846	1709	1846	1709	482
175°	1777	1789	1777	1789	1777	169
180°	1777	1777	1777	1777	1777	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8
2.5°	3448.9	3448.9	3468.3	3474.8	3474.8	3465.1	3455.4	3465.1	3494.2	3503.9	3500.7
5°	3436.0	3461.9	3497.4	3503.9	3510.3	3507.2	3500.7	3507.2	3539.5	3546.0	3549.2
7.5°	3410.1	3458.6	3503.9	3513.6	3523.3	3513.6	3510.3	3516.8	3549.2	3555.7	3555.7
10°	3377.7	3445.7	3497.4	3503.9	3513.6	3503.9	3503.9	3516.8	3549.2	3555.7	3558.9
12.5°	3332.4	3426.2	3474.8	3481.3	3494.2	3490.9	3487.8	3500.7	3533.0	3539.5	3539.5
15°	3280.7	3390.6	3436.0	3442.5	3465.1	3458.6	3458.6	3471.5	3507.2	3516.8	3513.6
17.5°	3209.5	3345.3	3397.1	3406.8	3423.1	3419.8	3423.1	3436.0	3468.3	3474.8	3478.0
20°	3128.6	3283.9	3345.3	3355.1	3371.2	3371.2	3371.2	3387.4	3419.8	3432.7	3432.7
22.5°	3018.6	3219.2	3283.9	3290.4	3309.8	3309.8	3316.3	3338.9	3368.0	3371.2	3371.2
25°	2889.2	3148.0	3203.0	3222.4	3241.8	3251.5	3261.3	3274.2	3283.9	3280.7	3283.9
27.5°	2753.3	3057.4	3128.6	3141.5	3167.4	3177.2	3190.1	3193.3	3196.6	3206.2	3199.7
30°	2601.3	2931.3	3038.0	3051.0	3093.0	3099.4	3086.5	3093.0	3109.2	3115.7	3122.1
32.5°	2429.8	2743.6	2944.2	2973.4	3012.2	2992.8	2989.5	2999.2	3025.1	3025.1	3031.6
35°	2196.8	2598.0	2856.8	2882.7	2911.8	2889.2	2902.1	2905.4	2921.5	2931.3	2928.0
37.5°	1941.3	2471.8	2766.3	2785.7	2808.3	2779.2	2798.6	2808.3	2821.3	2814.8	2814.8
40°	1714.8	2274.4	2659.5	2672.4	2691.8	2669.2	2688.6	2695.1	2701.6	2695.1	2691.8
42.5°	1546.5	2057.7	2546.2	2562.4	2549.5	2565.6	2572.1	2585.0	2575.4	2562.4	2562.4
45°	1417.1	1999.5	2423.3	2442.7	2423.3	2449.2	2458.9	2458.9	2429.8	2423.3	2420.0
47.5°	1375.0	1882.9	2300.3	2300.3	2290.7	2323.0	2339.1	2316.5	2287.4	2277.7	2277.7
50°	1371.8	1753.6	2132.1	2119.2	2164.5	2203.3	2187.1	2164.5	2141.8	2106.3	2106.3
52.5°	1245.6	1595.0	1915.3	1963.9	2035.0	2057.7	2031.8	2009.1	1970.3	1954.2	1941.3
55°	1155.0	1430.1	1718.0	1815.1	1889.4	1918.6	1870.0	1847.4	1789.2	1779.5	1773.0
57.5°	1135.6	1190.6	1536.8	1659.7	1750.3	1747.1	1718.0	1676.0	1627.4	1617.6	1614.5
60°	1041.8	860.6	1342.7	1488.3	1582.1	1572.4	1546.5	1507.7	1462.4	1455.9	1449.5
62.5°	944.7	624.5	1122.6	1287.6	1420.3	1417.1	1394.4	1336.2	1303.9	1287.6	1274.7
65°	802.4	524.2	799.1	1070.9	1261.8	1268.2	1219.8	1177.7	1142.0	1122.6	1119.5
67.5°	611.5	427.0	540.3	893.0	1109.7	1103.2	1041.8	1022.3	977.1	967.4	948.0
70°	453.0	284.7	375.3	724.7	960.9	944.7	896.2	873.6	831.5	808.9	795.9
72.5°	375.3	229.7	275.0	563.0	808.9	789.5	747.4	721.5	685.9	666.5	653.5
75°	304.1	242.6	210.3	417.4	656.8	643.9	605.1	579.1	550.0	524.2	527.3
77.5°	223.2	226.5	168.3	307.4	520.9	501.5	478.9	446.5	433.5	407.6	407.6
80°	168.3	177.9	126.2	210.3	375.3	375.3	355.9	333.3	310.6	297.7	297.7
82.5°	113.2	113.2	93.8	132.7	255.6	245.9	233.0	226.5	213.6	207.1	207.1
85°	51.7	64.7	58.2	80.9	139.1	145.6	145.6	139.1	135.8	129.4	132.7
87.5°	16.2	29.2	35.6	45.3	71.2	74.4	77.6	77.6	77.6	80.9	80.9
90°	12.0	21.5	31.0	33.4	52.5	77.9	90.6	80.6	60.4	45.3	45.3
92.5°	47.7	128.8	209.9	230.2	323.6	448.2	510.4	447.3	321.2	226.6	217.6
95°	114.5	262.9	411.3	448.4	796.2	1259.9	1491.8	1331.2	1010.1	769.2	741.9
97.5°	198.0	328.9	459.8	492.5	1072.5	1845.8	2232.5	2130.9	1928.0	1775.7	1723.8
100°	262.3	381.1	499.8	529.5	1173.1	2031.1	2460.2	2467.6	2482.4	2493.5	2431.7
102.5°	317.2	428.0	538.7	566.4	1219.2	2089.4	2524.6	2654.0	2912.5	3106.5	3053.6
105°	410.2	504.0	597.9	621.3	1253.3	2096.0	2517.4	2807.4	3387.2	3822.1	3793.6
107.5°	505.6	593.1	680.5	702.4	1259.7	2002.8	2374.3	2778.7	3587.6	4194.2	4201.0
110°	570.1	649.0	728.0	747.7	1250.2	1920.1	2255.1	2707.2	3611.4	4289.6	4319.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	633.3	708.5	783.7	802.6	1250.5	1847.9	2146.5	2609.2	3534.6	4228.7	4274.3
115°	728.7	798.1	867.5	884.9	1262.1	1765.1	2016.6	2462.3	3353.7	4022.4	4085.6
117.5°	822.8	885.9	949.0	964.8	1285.5	1713.2	1927.1	2329.4	3134.0	3737.4	3807.5
120°	877.7	937.1	996.4	1011.3	1304.7	1695.8	1891.4	2258.9	2994.1	3545.4	3613.5
122.5°	931.3	991.3	1051.1	1066.1	1332.1	1686.7	1863.9	2194.9	2856.9	3353.4	3420.6
125°	1013.6	1068.2	1122.8	1136.5	1369.0	1679.0	1834.1	2115.2	2677.6	3099.4	3161.2
127.5°	1080.5	1135.5	1190.7	1204.5	1406.0	1674.7	1809.0	2050.4	2533.3	2895.4	2947.6
130°	1116.2	1175.6	1235.0	1249.8	1433.0	1677.3	1799.5	2014.4	2444.3	2766.7	2814.9
132.5°	1153.2	1212.6	1272.0	1286.8	1454.9	1679.1	1791.2	1983.5	2368.3	2656.9	2700.1
135°	1208.0	1262.1	1316.2	1329.7	1478.7	1677.5	1776.8	1938.0	2260.3	2501.9	2539.1
137.5°	1264.1	1317.7	1371.1	1384.5	1514.5	1687.8	1774.5	1910.8	2183.1	2387.4	2417.9
140°	1310.6	1359.9	1409.1	1421.5	1536.4	1689.5	1766.1	1883.8	2119.2	2295.6	2324.1
142.5°	1346.3	1391.9	1437.5	1448.9	1554.6	1695.7	1766.1	1869.5	2076.1	2231.2	2255.7
145°	1401.2	1441.0	1480.7	1490.7	1578.5	1695.7	1754.2	1838.7	2007.8	2134.7	2153.2
147.5°	1456.1	1494.8	1533.5	1543.2	1613.5	1707.3	1754.2	1820.7	1953.7	2053.5	2068.9
150°	1491.8	1526.8	1561.8	1570.5	1631.7	1713.3	1754.2	1810.4	1922.7	2007.0	2019.5
152.5°	1528.8	1555.3	1581.9	1588.5	1643.7	1717.4	1754.2	1802.2	1898.0	1970.0	1979.4
155°	1583.7	1603.3	1622.9	1627.8	1669.9	1726.1	1754.2	1792.3	1868.7	1926.0	1932.2
157.5°	1624.2	1643.4	1662.4	1667.2	1696.1	1734.9	1754.2	1783.9	1843.3	1887.8	1892.2
160°	1651.7	1666.5	1681.3	1685.0	1708.1	1738.8	1754.2	1779.6	1830.5	1868.7	1871.2
162.5°	1679.1	1690.2	1701.4	1704.2	1720.8	1743.1	1754.2	1775.7	1818.6	1850.8	1853.2
165°	1708.8	1718.9	1729.0	1731.5	1739.1	1749.1	1754.2	1769.6	1800.3	1823.4	1825.9
167.5°	1736.3	1741.1	1745.8	1747.1	1753.4	1761.9	1766.1	1776.2	1796.3	1811.4	1812.5
170°	1754.2	1758.9	1763.7	1765.0	1765.3	1765.8	1766.1	1776.2	1796.3	1811.4	1811.4
172.5°	1763.7	1764.8	1765.8	1766.1	1766.1	1766.1	1766.1	1774.0	1789.9	1801.9	1800.9
175°	1776.8	1776.8	1776.8	1776.8	1773.3	1768.5	1766.1	1771.2	1781.2	1788.8	1788.8
177.5°	1776.8	1776.8	1776.8	1776.8	1774.0	1770.3	1768.5	1772.5	1780.5	1786.4	1785.3
180°	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8
2.5°	3507.2	3497.4	3507.2	3500.7	3503.9	3494.2	3465.1	3455.4	3465.1	3474.8	3474.8
5°	3549.2	3542.7	3549.2	3549.2	3546.0	3539.5	3507.2	3500.7	3507.2	3510.3	3503.9
7.5°	3562.2	3552.4	3562.2	3555.7	3555.7	3549.2	3516.8	3510.3	3513.6	3523.3	3513.6
10°	3562.2	3552.4	3562.2	3558.9	3555.7	3549.2	3516.8	3503.9	3503.9	3513.6	3503.9
12.5°	3546.0	3539.5	3546.0	3539.5	3539.5	3533.0	3500.7	3487.8	3490.9	3494.2	3481.3
15°	3520.1	3510.3	3520.1	3513.6	3516.8	3507.2	3471.5	3458.6	3458.6	3465.1	3442.5
17.5°	3481.3	3468.3	3481.3	3478.0	3474.8	3468.3	3436.0	3423.1	3419.8	3423.1	3406.8
20°	3436.0	3426.2	3436.0	3432.7	3432.7	3419.8	3387.4	3371.2	3371.2	3371.2	3355.1
22.5°	3364.7	3355.1	3364.7	3371.2	3371.2	3368.0	3338.9	3316.3	3309.8	3309.8	3290.4
25°	3283.9	3274.2	3283.9	3283.9	3280.7	3283.9	3274.2	3261.3	3251.5	3241.8	3222.4
27.5°	3206.2	3199.7	3206.2	3199.7	3206.2	3196.6	3193.3	3190.1	3177.2	3167.4	3141.5
30°	3128.6	3122.1	3128.6	3122.1	3115.7	3109.2	3093.0	3086.5	3099.4	3093.0	3051.0
32.5°	3031.6	3025.1	3031.6	3031.6	3025.1	3025.1	2999.2	2989.5	2992.8	3012.2	2973.4
35°	2931.3	2921.5	2931.3	2928.0	2931.3	2921.5	2905.4	2902.1	2889.2	2911.8	2882.7
37.5°	2814.8	2805.1	2814.8	2814.8	2814.8	2821.3	2808.3	2798.6	2779.2	2808.3	2785.7
40°	2695.1	2682.2	2695.1	2691.8	2695.1	2701.6	2695.1	2688.6	2669.2	2691.8	2672.4
42.5°	2559.2	2556.0	2559.2	2562.4	2562.4	2575.4	2585.0	2572.1	2565.6	2549.5	2562.4
45°	2413.6	2407.1	2413.6	2420.0	2423.3	2429.8	2458.9	2458.9	2449.2	2423.3	2442.7
47.5°	2258.3	2242.1	2258.3	2277.7	2277.7	2287.4	2316.5	2339.1	2323.0	2290.7	2300.3
50°	2093.3	2096.5	2093.3	2106.3	2106.3	2141.8	2164.5	2187.1	2203.3	2164.5	2119.2
52.5°	1931.5	1928.3	1931.5	1941.3	1954.2	1970.3	2009.1	2031.8	2057.7	2035.0	1963.9
55°	1769.7	1776.2	1769.7	1773.0	1779.5	1789.2	1847.4	1870.0	1918.6	1889.4	1815.1
57.5°	1608.0	1598.2	1608.0	1614.5	1617.6	1627.4	1676.0	1718.0	1747.1	1750.3	1659.7
60°	1420.3	1407.4	1420.3	1449.5	1455.9	1462.4	1507.7	1546.5	1572.4	1582.1	1488.3
62.5°	1255.3	1232.7	1255.3	1274.7	1287.6	1303.9	1336.2	1394.4	1417.1	1420.3	1287.6
65°	1080.6	1070.9	1080.6	1119.5	1122.6	1142.0	1177.7	1219.8	1268.2	1261.8	1070.9
67.5°	922.1	922.1	922.1	948.0	967.4	977.1	1022.3	1041.8	1103.2	1109.7	893.0
70°	776.5	773.2	776.5	795.9	808.9	831.5	873.6	896.2	944.7	960.9	724.7
72.5°	637.4	634.1	637.4	653.5	666.5	685.9	721.5	747.4	789.5	808.9	563.0
75°	514.4	507.9	514.4	527.3	524.2	550.0	579.1	605.1	643.9	656.8	417.4
77.5°	394.7	394.7	394.7	407.6	407.6	433.5	446.5	478.9	501.5	520.9	307.4
80°	294.4	291.2	294.4	297.7	297.7	310.6	333.3	355.9	375.3	375.3	210.3
82.5°	207.1	200.6	207.1	207.1	207.1	213.6	226.5	233.0	245.9	255.6	132.7
85°	129.4	129.4	129.4	132.7	129.4	135.8	139.1	145.6	145.6	139.1	80.9
87.5°	84.1	80.9	84.1	80.9	80.9	77.6	77.6	77.6	74.4	71.2	45.3
90°	45.3	45.3	45.3	45.3	45.3	60.4	80.6	90.6	77.9	52.5	33.4
92.5°	181.5	145.5	181.5	217.6	226.6	321.2	447.3	510.4	448.2	323.6	230.2
95°	632.7	523.5	632.7	741.9	769.2	1010.1	1331.2	1491.8	1259.9	796.2	448.4
97.5°	1515.9	1308.2	1515.9	1723.8	1775.7	1928.0	2130.9	2232.5	1845.8	1072.5	492.5
100°	2184.2	1936.7	2184.2	2431.7	2493.5	2482.4	2467.6	2460.2	2031.1	1173.1	529.5
102.5°	2841.5	2629.6	2841.5	3053.6	3106.5	2912.5	2654.0	2524.6	2089.4	1219.2	566.4
105°	3679.6	3565.7	3679.6	3793.6	3822.1	3387.2	2807.4	2517.4	2096.0	1253.3	621.3
107.5°	4228.6	4256.1	4228.6	4201.0	4194.2	3587.6	2778.7	2374.3	2002.8	1259.7	702.4
110°	4437.9	4556.7	4437.9	4319.2	4289.6	3611.4	2707.2	2255.1	1920.1	1250.2	747.7





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4456.6	4638.9	4456.6	4274.3	4228.7	3534.6	2609.2	2146.5	1847.9	1250.5	802.6
115°	4338.4	4591.2	4338.4	4085.6	4022.4	3353.7	2462.3	2016.6	1765.1	1262.1	884.9
117.5°	4087.9	4368.3	4087.9	3807.5	3737.4	3134.0	2329.4	1927.1	1713.2	1285.5	964.8
120°	3885.9	4158.3	3885.9	3613.5	3545.4	2994.1	2258.9	1891.4	1695.8	1304.7	1011.3
122.5°	3689.3	3958.0	3689.3	3420.6	3353.4	2856.9	2194.9	1863.9	1686.7	1332.1	1066.1
125°	3408.8	3656.3	3408.8	3161.2	3099.4	2677.6	2115.2	1834.1	1679.0	1369.0	1136.5
127.5°	3156.5	3365.3	3156.5	2947.6	2895.4	2533.3	2050.4	1809.0	1674.7	1406.0	1204.5
130°	3007.9	3200.8	3007.9	2814.9	2766.7	2444.3	2014.4	1799.5	1677.3	1433.0	1249.8
132.5°	2872.9	3045.7	2872.9	2700.1	2656.9	2368.3	1983.5	1791.2	1679.1	1454.9	1286.8
135°	2688.1	2837.0	2688.1	2539.1	2501.9	2260.3	1938.0	1776.8	1677.5	1478.7	1329.7
137.5°	2539.8	2661.7	2539.8	2417.9	2387.4	2183.1	1910.8	1774.5	1687.8	1514.5	1384.5
140°	2438.1	2552.0	2438.1	2324.1	2295.6	2119.2	1883.8	1766.1	1689.5	1536.4	1421.5
142.5°	2353.8	2451.9	2353.8	2255.7	2231.2	2076.1	1869.5	1766.1	1695.7	1554.6	1448.9
145°	2227.4	2301.6	2227.4	2153.2	2134.7	2007.8	1838.7	1754.2	1695.7	1578.5	1490.7
147.5°	2130.4	2191.8	2130.4	2068.9	2053.5	1953.7	1820.7	1754.2	1707.3	1613.5	1543.2
150°	2069.4	2119.2	2069.4	2019.5	2007.0	1922.7	1810.4	1754.2	1713.3	1631.7	1570.5
152.5°	2017.1	2054.7	2017.1	1979.4	1970.0	1898.0	1802.2	1754.2	1717.4	1643.7	1588.5
155°	1957.1	1982.0	1957.1	1932.2	1926.0	1868.7	1792.3	1754.2	1726.1	1669.9	1627.8
157.5°	1909.6	1927.1	1909.6	1892.2	1887.8	1843.3	1783.9	1754.2	1734.9	1696.1	1667.2
160°	1881.3	1891.4	1881.3	1871.2	1868.7	1830.5	1779.6	1754.2	1738.8	1708.1	1685.0
162.5°	1862.7	1872.2	1862.7	1853.2	1850.8	1818.6	1775.7	1754.2	1743.1	1720.8	1704.2
165°	1836.0	1846.0	1836.0	1825.9	1823.4	1800.3	1769.6	1754.2	1749.1	1739.1	1731.5
167.5°	1816.8	1821.0	1816.8	1812.5	1811.4	1796.3	1776.2	1766.1	1761.9	1753.4	1747.1
170°	1811.4	1811.4	1811.4	1811.4	1811.4	1796.3	1776.2	1766.1	1765.8	1765.3	1765.0
172.5°	1797.3	1793.6	1797.3	1800.9	1801.9	1789.9	1774.0	1766.1	1766.1	1766.1	1766.1
175°	1788.8	1788.8	1788.8	1788.8	1788.8	1781.2	1771.2	1766.1	1768.5	1773.3	1776.8
177.5°	1781.0	1776.8	1781.0	1785.3	1786.4	1780.5	1772.5	1768.5	1770.3	1774.0	1776.8
180°	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8
2.5°	3468.3	3448.9	3448.9	3416.6	3403.6	3393.9	3377.7	3329.2	3316.3	3303.3	3322.8
5°	3497.4	3461.9	3436.0	3377.7	3329.2	3309.8	3248.3	3131.9	3054.2	2995.9	2963.6
7.5°	3503.9	3458.6	3410.1	3319.5	3203.0	3151.3	2963.6	2750.0	2691.8	2640.1	2607.7
10°	3497.4	3445.7	3377.7	3241.8	2966.9	2876.2	2688.6	2549.5	2513.9	2504.1	2513.9
12.5°	3474.8	3426.2	3332.4	3105.9	2721.0	2659.5	2549.5	2468.6	2462.1	2478.3	2565.6
15°	3436.0	3390.6	3280.7	2924.8	2585.0	2539.8	2462.1	2433.0	2468.6	2581.9	2843.9
17.5°	3397.1	3345.3	3209.5	2746.9	2481.5	2449.2	2394.2	2452.4	2653.0	2805.1	2892.4
20°	3345.3	3283.9	3128.6	2617.4	2407.1	2378.0	2352.1	2614.2	2766.3	2821.3	2869.8
22.5°	3283.9	3219.2	3018.6	2526.8	2329.5	2306.8	2323.0	2704.8	2766.3	2805.1	2847.2
25°	3203.0	3148.0	2889.2	2455.7	2268.0	2242.1	2303.6	2695.1	2730.6	2740.4	2824.5
27.5°	3128.6	3057.4	2753.3	2391.0	2193.5	2183.9	2319.7	2653.0	2678.9	2688.6	2779.2
30°	3038.0	2931.3	2601.3	2323.0	2115.9	2112.7	2323.0	2601.3	2594.8	2620.7	2711.2
32.5°	2944.2	2743.6	2429.8	2238.9	2041.5	2038.3	2300.3	2523.6	2517.1	2552.7	2620.7
35°	2856.8	2598.0	2196.8	2141.8	1947.7	1950.9	2245.4	2433.0	2436.3	2468.6	2510.6
37.5°	2766.3	2471.8	1941.3	2035.0	1857.1	1857.1	2170.9	2348.9	2342.4	2352.1	2410.4
40°	2659.5	2274.4	1714.8	1895.9	1773.0	1763.2	2080.4	2258.3	2235.6	2232.5	2313.3
42.5°	2546.2	2057.7	1546.5	1711.5	1676.0	1663.0	1970.3	2148.3	2106.3	2115.9	2219.4
45°	2423.3	1999.5	1417.1	1446.2	1575.6	1565.9	1850.6	2022.1	1993.0	2018.9	2125.7
47.5°	2300.3	1882.9	1375.0	1200.4	1468.9	1465.6	1718.0	1899.2	1882.9	1908.8	2022.1
50°	2132.1	1753.6	1371.8	1028.8	1349.1	1362.1	1559.4	1779.5	1779.5	1802.1	1921.8
52.5°	1915.3	1595.0	1245.6	931.8	1210.0	1248.8	1420.3	1676.0	1682.4	1705.0	1811.8
55°	1718.0	1430.1	1155.0	857.3	1045.0	1129.1	1284.5	1569.2	1582.1	1604.7	1701.8
57.5°	1536.8	1190.6	1135.6	770.1	893.0	973.9	1164.7	1465.6	1472.0	1491.6	1585.3
60°	1342.7	860.6	1041.8	676.2	760.3	821.8	1054.8	1342.7	1365.4	1378.3	1459.1
62.5°	1122.6	624.5	944.7	611.5	695.6	708.6	964.1	1226.2	1255.3	1265.1	1313.5
65°	799.1	524.2	802.4	556.5	627.6	630.9	867.1	1106.5	1132.4	1148.5	1184.1
67.5°	540.3	427.0	611.5	504.7	575.9	579.1	773.2	967.4	1002.9	1015.9	1038.6
70°	375.3	284.7	453.0	449.7	517.7	524.2	672.9	841.2	873.6	883.2	896.2
72.5°	275.0	229.7	375.3	404.4	456.2	462.7	569.4	698.8	731.1	740.9	747.4
75°	210.3	242.6	304.1	352.7	388.2	391.5	465.9	569.4	592.1	598.6	601.8
77.5°	168.3	226.5	223.2	284.7	317.1	310.6	365.6	440.0	459.5	459.5	459.5
80°	126.2	177.9	168.3	203.8	233.0	226.5	262.0	313.9	320.3	326.8	323.5
82.5°	93.8	113.2	113.2	129.4	155.3	148.8	174.8	203.8	203.8	203.8	210.3
85°	58.2	64.7	51.7	68.0	87.4	84.1	97.0	110.0	113.2	113.2	106.8
87.5°	35.6	29.2	16.2	25.9	38.8	38.8	45.3	48.6	45.3	45.3	45.3
90°	31.0	21.5	12.0	21.5	31.0	33.4	52.5	77.9	90.6	80.6	60.4
92.5°	209.9	128.8	47.7	128.8	209.9	230.2	323.6	448.2	510.4	447.3	321.2
95°	411.3	262.9	114.5	262.9	411.3	448.4	796.2	1259.9	1491.8	1331.2	1010.1
97.5°	459.8	328.9	198.0	328.9	459.8	492.5	1072.5	1845.8	2232.5	2130.9	1928.0
100°	499.8	381.1	262.3	381.1	499.8	529.5	1173.1	2031.1	2460.2	2467.6	2482.4
102.5°	538.7	428.0	317.2	428.0	538.7	566.4	1219.2	2089.4	2524.6	2654.0	2912.5
105°	597.9	504.0	410.2	504.0	597.9	621.3	1253.3	2096.0	2517.4	2807.4	3387.2
107.5°	680.5	593.1	505.6	593.1	680.5	702.4	1259.7	2002.8	2374.3	2778.7	3587.6
110°	728.0	649.0	570.1	649.0	728.0	747.7	1250.2	1920.1	2255.1	2707.2	3611.4



TEST NUMBER: P936112

CATALOG NUMBER: SQ4-FA-150U-125D-830-1D-UNV-STD-W-8

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	783.7	708.5	633.3	708.5	783.7	802.6	1250.5	1847.9	2146.5	2609.2	3534.6
115°	867.5	798.1	728.7	798.1	867.5	884.9	1262.1	1765.1	2016.6	2462.3	3353.7
117.5°	949.0	885.9	822.8	885.9	949.0	964.8	1285.5	1713.2	1927.1	2329.4	3134.0
120°	996.4	937.1	877.7	937.1	996.4	1011.3	1304.7	1695.8	1891.4	2258.9	2994.1
122.5°	1051.1	991.3	931.3	991.3	1051.1	1066.1	1332.1	1686.7	1863.9	2194.9	2856.9
125°	1122.8	1068.2	1013.6	1068.2	1122.8	1136.5	1369.0	1679.0	1834.1	2115.2	2677.6
127.5°	1190.7	1135.5	1080.5	1135.5	1190.7	1204.5	1406.0	1674.7	1809.0	2050.4	2533.3
130°	1235.0	1175.6	1116.2	1175.6	1235.0	1249.8	1433.0	1677.3	1799.5	2014.4	2444.3
132.5°	1272.0	1212.6	1153.2	1212.6	1272.0	1286.8	1454.9	1679.1	1791.2	1983.5	2368.3
135°	1316.2	1262.1	1208.0	1262.1	1316.2	1329.7	1478.7	1677.5	1776.8	1938.0	2260.3
137.5°	1371.1	1317.7	1264.1	1317.7	1371.1	1384.5	1514.5	1687.8	1774.5	1910.8	2183.1
140°	1409.1	1359.9	1310.6	1359.9	1409.1	1421.5	1536.4	1689.5	1766.1	1883.8	2119.2
142.5°	1437.5	1391.9	1346.3	1391.9	1437.5	1448.9	1554.6	1695.7	1766.1	1869.5	2076.1
145°	1480.7	1441.0	1401.2	1441.0	1480.7	1490.7	1578.5	1695.7	1754.2	1838.7	2007.8
147.5°	1533.5	1494.8	1456.1	1494.8	1533.5	1543.2	1613.5	1707.3	1754.2	1820.7	1953.7
150°	1561.8	1526.8	1491.8	1526.8	1561.8	1570.5	1631.7	1713.3	1754.2	1810.4	1922.7
152.5°	1581.9	1555.3	1528.8	1555.3	1581.9	1588.5	1643.7	1717.4	1754.2	1802.2	1898.0
155°	1622.9	1603.3	1583.7	1603.3	1622.9	1627.8	1669.9	1726.1	1754.2	1792.3	1868.7
157.5°	1662.4	1643.4	1624.2	1643.4	1662.4	1667.2	1696.1	1734.9	1754.2	1783.9	1843.3
160°	1681.3	1666.5	1651.7	1666.5	1681.3	1685.0	1708.1	1738.8	1754.2	1779.6	1830.5
162.5°	1701.4	1690.2	1679.1	1690.2	1701.4	1704.2	1720.8	1743.1	1754.2	1775.7	1818.6
165°	1729.0	1718.9	1708.8	1718.9	1729.0	1731.5	1739.1	1749.1	1754.2	1769.6	1800.3
167.5°	1745.8	1741.1	1736.3	1741.1	1745.8	1747.1	1753.4	1761.9	1766.1	1776.2	1796.3
170°	1763.7	1758.9	1754.2	1758.9	1763.7	1765.0	1765.3	1765.8	1766.1	1776.2	1796.3
172.5°	1765.8	1764.8	1763.7	1764.8	1765.8	1766.1	1766.1	1766.1	1766.1	1774.0	1789.9
175°	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1773.3	1768.5	1766.1	1771.2	1781.2
177.5°	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1774.0	1770.3	1768.5	1772.5	1780.5
180°	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8	3419.8
2.5°	3300.1	3290.4	3303.3	3267.7	3303.3	3290.4	3300.1	3322.8	3303.3	3316.3	3329.2
5°	2895.6	2879.5	2827.8	2785.7	2827.8	2879.5	2895.6	2963.6	2995.9	3054.2	3131.9
7.5°	2588.3	2575.4	2562.4	2536.6	2562.4	2575.4	2588.3	2607.7	2640.1	2691.8	2750.0
10°	2520.4	2523.6	2543.0	2539.8	2543.0	2523.6	2520.4	2513.9	2504.1	2513.9	2549.5
12.5°	2695.1	2724.2	2830.9	2824.5	2830.9	2724.2	2695.1	2565.6	2478.3	2462.1	2468.6
15°	2895.6	2905.4	2928.0	2931.3	2928.0	2905.4	2895.6	2843.9	2581.9	2468.6	2433.0
17.5°	2915.0	2918.3	2934.4	2934.4	2934.4	2918.3	2915.0	2892.4	2805.1	2653.0	2452.4
20°	2898.9	2905.4	2937.7	2944.2	2937.7	2905.4	2898.9	2869.8	2821.3	2766.3	2614.2
22.5°	2892.4	2905.4	2931.3	2928.0	2931.3	2905.4	2892.4	2847.2	2805.1	2766.3	2704.8
25°	2860.1	2860.1	2863.3	2866.6	2863.3	2860.1	2860.1	2824.5	2740.4	2730.6	2695.1
27.5°	2792.1	2798.6	2818.0	2814.8	2818.0	2798.6	2792.1	2779.2	2688.6	2678.9	2653.0
30°	2730.6	2724.2	2708.0	2695.1	2708.0	2724.2	2730.6	2711.2	2620.7	2594.8	2601.3
32.5°	2627.1	2610.9	2594.8	2585.0	2594.8	2610.9	2627.1	2620.7	2552.7	2517.1	2523.6
35°	2504.1	2507.4	2504.1	2494.5	2504.1	2507.4	2504.1	2510.6	2468.6	2436.3	2433.0
37.5°	2416.9	2423.3	2420.0	2407.1	2420.0	2423.3	2416.9	2410.4	2352.1	2342.4	2348.9
40°	2326.2	2329.5	2326.2	2316.5	2326.2	2329.5	2326.2	2313.3	2232.5	2235.6	2258.3
42.5°	2238.9	2235.6	2226.0	2219.4	2226.0	2235.6	2238.9	2219.4	2115.9	2106.3	2148.3
45°	2138.6	2141.8	2122.4	2112.7	2122.4	2141.8	2138.6	2125.7	2018.9	1993.0	2022.1
47.5°	2038.3	2038.3	2022.1	2012.4	2022.1	2038.3	2038.3	2022.1	1908.8	1882.9	1899.2
50°	1931.5	1928.3	1905.6	1902.4	1905.6	1928.3	1931.5	1921.8	1802.1	1779.5	1779.5
52.5°	1808.6	1808.6	1811.8	1818.3	1811.8	1808.6	1808.6	1811.8	1705.0	1682.4	1676.0
55°	1701.8	1705.0	1727.7	1734.2	1727.7	1705.0	1701.8	1701.8	1604.7	1582.1	1569.2
57.5°	1591.8	1591.8	1608.0	1608.0	1608.0	1591.8	1591.8	1585.3	1491.6	1472.0	1465.6
60°	1465.6	1472.0	1485.1	1481.8	1485.1	1472.0	1465.6	1459.1	1378.3	1365.4	1342.7
62.5°	1333.0	1339.5	1342.7	1336.2	1342.7	1339.5	1333.0	1313.5	1265.1	1255.3	1226.2
65°	1193.9	1200.4	1203.6	1197.1	1203.6	1200.4	1193.9	1184.1	1148.5	1132.4	1106.5
67.5°	1051.5	1048.3	1045.0	1058.0	1045.0	1048.3	1051.5	1038.6	1015.9	1002.9	967.4
70°	905.9	905.9	902.7	909.2	902.7	905.9	905.9	896.2	883.2	873.6	841.2
72.5°	750.7	747.4	760.3	750.7	760.3	747.4	750.7	747.4	740.9	731.1	698.8
75°	598.6	605.1	598.6	608.2	598.6	605.1	598.6	601.8	598.6	592.1	569.4
77.5°	456.2	462.7	456.2	456.2	456.2	462.7	456.2	459.5	459.5	459.5	440.0
80°	323.5	320.3	320.3	317.1	320.3	320.3	323.5	323.5	326.8	320.3	313.9
82.5°	207.1	203.8	203.8	210.3	203.8	203.8	207.1	210.3	203.8	203.8	203.8
85°	113.2	116.4	110.0	110.0	110.0	116.4	113.2	106.8	113.2	113.2	110.0
87.5°	42.1	38.8	38.8	38.8	38.8	38.8	42.1	45.3	45.3	45.3	48.6
90°	45.3	45.3	45.3	45.3	45.3	45.3	45.3	60.4	80.6	90.6	77.9
92.5°	226.6	217.6	181.5	145.5	181.5	217.6	226.6	321.2	447.3	510.4	448.2
95°	769.2	741.9	632.7	523.5	632.7	741.9	769.2	1010.1	1331.2	1491.8	1259.9
97.5°	1775.7	1723.8	1515.9	1308.2	1515.9	1723.8	1775.7	1928.0	2130.9	2232.5	1845.8
100°	2493.5	2431.7	2184.2	1936.7	2184.2	2431.7	2493.5	2482.4	2467.6	2460.2	2031.1
102.5°	3106.5	3053.6	2841.5	2629.6	2841.5	3053.6	3106.5	2912.5	2654.0	2524.6	2089.4
105°	3822.1	3793.6	3679.6	3565.7	3679.6	3793.6	3822.1	3387.2	2807.4	2517.4	2096.0
107.5°	4194.2	4201.0	4228.6	4256.1	4228.6	4201.0	4194.2	3587.6	2778.7	2374.3	2002.8
110°	4289.6	4319.2	4437.9	4556.7	4437.9	4319.2	4289.6	3611.4	2707.2	2255.1	1920.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4228.7	4274.3	4456.6	4638.9	4456.6	4274.3	4228.7	3534.6	2609.2	2146.5	1847.9
115°	4022.4	4085.6	4338.4	4591.2	4338.4	4085.6	4022.4	3353.7	2462.3	2016.6	1765.1
117.5°	3737.4	3807.5	4087.9	4368.3	4087.9	3807.5	3737.4	3134.0	2329.4	1927.1	1713.2
120°	3545.4	3613.5	3885.9	4158.3	3885.9	3613.5	3545.4	2994.1	2258.9	1891.4	1695.8
122.5°	3353.4	3420.6	3689.3	3958.0	3689.3	3420.6	3353.4	2856.9	2194.9	1863.9	1686.7
125°	3099.4	3161.2	3408.8	3656.3	3408.8	3161.2	3099.4	2677.6	2115.2	1834.1	1679.0
127.5°	2895.4	2947.6	3156.5	3365.3	3156.5	2947.6	2895.4	2533.3	2050.4	1809.0	1674.7
130°	2766.7	2814.9	3007.9	3200.8	3007.9	2814.9	2766.7	2444.3	2014.4	1799.5	1677.3
132.5°	2656.9	2700.1	2872.9	3045.7	2872.9	2700.1	2656.9	2368.3	1983.5	1791.2	1679.1
135°	2501.9	2539.1	2688.1	2837.0	2688.1	2539.1	2501.9	2260.3	1938.0	1776.8	1677.5
137.5°	2387.4	2417.9	2539.8	2661.7	2539.8	2417.9	2387.4	2183.1	1910.8	1774.5	1687.8
140°	2295.6	2324.1	2438.1	2552.0	2438.1	2324.1	2295.6	2119.2	1883.8	1766.1	1689.5
142.5°	2231.2	2255.7	2353.8	2451.9	2353.8	2255.7	2231.2	2076.1	1869.5	1766.1	1695.7
145°	2134.7	2153.2	2227.4	2301.6	2227.4	2153.2	2134.7	2007.8	1838.7	1754.2	1695.7
147.5°	2053.5	2068.9	2130.4	2191.8	2130.4	2068.9	2053.5	1953.7	1820.7	1754.2	1707.3
150°	2007.0	2019.5	2069.4	2119.2	2069.4	2019.5	2007.0	1922.7	1810.4	1754.2	1713.3
152.5°	1970.0	1979.4	2017.1	2054.7	2017.1	1979.4	1970.0	1898.0	1802.2	1754.2	1717.4
155°	1926.0	1932.2	1957.1	1982.0	1957.1	1932.2	1926.0	1868.7	1792.3	1754.2	1726.1
157.5°	1887.8	1892.2	1909.6	1927.1	1909.6	1892.2	1887.8	1843.3	1783.9	1754.2	1734.9
160°	1868.7	1871.2	1881.3	1891.4	1881.3	1871.2	1868.7	1830.5	1779.6	1754.2	1738.8
162.5°	1850.8	1853.2	1862.7	1872.2	1862.7	1853.2	1850.8	1818.6	1775.7	1754.2	1743.1
165°	1823.4	1825.9	1836.0	1846.0	1836.0	1825.9	1823.4	1800.3	1769.6	1754.2	1749.1
167.5°	1811.4	1812.5	1816.8	1821.0	1816.8	1812.5	1811.4	1796.3	1776.2	1766.1	1761.9
170°	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1811.4	1796.3	1776.2	1766.1	1765.8
172.5°	1801.9	1800.9	1797.3	1793.6	1797.3	1800.9	1801.9	1789.9	1774.0	1766.1	1766.1
175°	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1788.8	1781.2	1771.2	1766.1	1768.5
177.5°	1786.4	1785.3	1781.0	1776.8	1781.0	1785.3	1786.4	1780.5	1772.5	1768.5	1770.3
180°	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8	1776.8



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	3419.8	3419.8	3419.8	3419.8	3419.8
2.5°	3377.7	3393.9	3403.6	3416.6	3448.9
5°	3248.3	3309.8	3329.2	3377.7	3436.0
7.5°	2963.6	3151.3	3203.0	3319.5	3410.1
10°	2688.6	2876.2	2966.9	3241.8	3377.7
12.5°	2549.5	2659.5	2721.0	3105.9	3332.4
15°	2462.1	2539.8	2585.0	2924.8	3280.7
17.5°	2394.2	2449.2	2481.5	2746.9	3209.5
20°	2352.1	2378.0	2407.1	2617.4	3128.6
22.5°	2323.0	2306.8	2329.5	2526.8	3018.6
25°	2303.6	2242.1	2268.0	2455.7	2889.2
27.5°	2319.7	2183.9	2193.5	2391.0	2753.3
30°	2323.0	2112.7	2115.9	2323.0	2601.3
32.5°	2300.3	2038.3	2041.5	2238.9	2429.8
35°	2245.4	1950.9	1947.7	2141.8	2196.8
37.5°	2170.9	1857.1	1857.1	2035.0	1941.3
40°	2080.4	1763.2	1773.0	1895.9	1714.8
42.5°	1970.3	1663.0	1676.0	1711.5	1546.5
45°	1850.6	1565.9	1575.6	1446.2	1417.1
47.5°	1718.0	1465.6	1468.9	1200.4	1375.0
50°	1559.4	1362.1	1349.1	1028.8	1371.8
52.5°	1420.3	1248.8	1210.0	931.8	1245.6
55°	1284.5	1129.1	1045.0	857.3	1155.0
57.5°	1164.7	973.9	893.0	770.1	1135.6
60°	1054.8	821.8	760.3	676.2	1041.8
62.5°	964.1	708.6	695.6	611.5	944.7
65°	867.1	630.9	627.6	556.5	802.4
67.5°	773.2	579.1	575.9	504.7	611.5
70°	672.9	524.2	517.7	449.7	453.0
72.5°	569.4	462.7	456.2	404.4	375.3
75°	465.9	391.5	388.2	352.7	304.1
77.5°	365.6	310.6	317.1	284.7	223.2
80°	262.0	226.5	233.0	203.8	168.3
82.5°	174.8	148.8	155.3	129.4	113.2
85°	97.0	84.1	87.4	68.0	51.7
87.5°	45.3	38.8	38.8	25.9	16.2
90°	52.5	33.4	31.0	21.5	12.0
92.5°	323.6	230.2	209.9	128.8	47.7
95°	796.2	448.4	411.3	262.9	114.5
97.5°	1072.5	492.5	459.8	328.9	198.0
100°	1173.1	529.5	499.8	381.1	262.3
102.5°	1219.2	566.4	538.7	428.0	317.2
105°	1253.3	621.3	597.9	504.0	410.2
107.5°	1259.7	702.4	680.5	593.1	505.6
110°	1250.2	747.7	728.0	649.0	570.1



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1250.5	802.6	783.7	708.5	633.3
115°	1262.1	884.9	867.5	798.1	728.7
117.5°	1285.5	964.8	949.0	885.9	822.8
120°	1304.7	1011.3	996.4	937.1	877.7
122.5°	1332.1	1066.1	1051.1	991.3	931.3
125°	1369.0	1136.5	1122.8	1068.2	1013.6
127.5°	1406.0	1204.5	1190.7	1135.5	1080.5
130°	1433.0	1249.8	1235.0	1175.6	1116.2
132.5°	1454.9	1286.8	1272.0	1212.6	1153.2
135°	1478.7	1329.7	1316.2	1262.1	1208.0
137.5°	1514.5	1384.5	1371.1	1317.7	1264.1
140°	1536.4	1421.5	1409.1	1359.9	1310.6
142.5°	1554.6	1448.9	1437.5	1391.9	1346.3
145°	1578.5	1490.7	1480.7	1441.0	1401.2
147.5°	1613.5	1543.2	1533.5	1494.8	1456.1
150°	1631.7	1570.5	1561.8	1526.8	1491.8
152.5°	1643.7	1588.5	1581.9	1555.3	1528.8
155°	1669.9	1627.8	1622.9	1603.3	1583.7
157.5°	1696.1	1667.2	1662.4	1643.4	1624.2
160°	1708.1	1685.0	1681.3	1666.5	1651.7
162.5°	1720.8	1704.2	1701.4	1690.2	1679.1
165°	1739.1	1731.5	1729.0	1718.9	1708.8
167.5°	1753.4	1747.1	1745.8	1741.1	1736.3
170°	1765.3	1765.0	1763.7	1758.9	1754.2
172.5°	1766.1	1766.1	1765.8	1764.8	1763.7
175°	1773.3	1776.8	1776.8	1776.8	1776.8
177.5°	1774.0	1776.8	1776.8	1776.8	1776.8
180°	1776.8	1776.8	1776.8	1776.8	1776.8



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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	13.78	14.59	14.79	15.61	16.97	16.62	17.42	17.63	18.44	19.81
	3H	14.25	14.98	15.27	16.00	17.39	17.96	18.68	18.98	19.71	21.09
	4H	14.44	15.13	15.48	16.16	17.55	18.41	19.09	19.44	20.12	21.51
	6H	14.56	15.19	15.60	16.22	17.62	18.69	19.32	19.73	20.36	21.76
	8H	14.56	15.16	15.61	16.21	17.61	18.76	19.36	19.81	20.41	21.81
	12H	14.53	15.10	15.58	16.14	17.56	18.80	19.37	19.86	20.42	21.84
4H	2H	14.81	15.49	15.85	16.52	17.91	17.02	17.70	18.06	18.74	20.13
	3H	15.83	16.40	16.88	17.46	18.86	18.52	19.09	19.57	20.15	21.56
	4H	16.10	16.63	17.16	17.68	19.10	19.05	19.57	20.11	20.62	22.05
	6H	16.23	16.67	17.29	17.75	19.17	19.41	19.86	20.48	20.94	22.36
	8H	16.23	16.65	17.30	17.72	19.15	19.52	19.94	20.59	21.01	22.44
	12H	16.19	16.57	17.28	17.65	19.09	19.58	19.96	20.66	21.04	22.48
8H	4H	16.55	16.97	17.62	18.04	19.47	19.17	19.59	20.24	20.66	22.09
	6H	16.81	17.16	17.90	18.27	19.70	19.61	19.95	20.70	21.06	22.49
	8H	16.86	17.16	17.95	18.25	19.70	19.76	20.06	20.85	21.16	22.61
	12H	16.84	17.10	17.94	18.19	19.68	19.86	20.12	20.96	21.21	22.70
12H	4H	16.56	16.94	17.64	18.02	19.46	19.13	19.51	20.22	20.59	22.03
	6H	16.87	17.18	17.97	18.27	19.72	19.60	19.91	20.70	21.00	22.45
	8H	16.94	17.21	18.04	18.29	19.78	19.76	20.03	20.86	21.12	22.61