

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: P935817

Luminaire Tested: SQ4-FA-150U-050D-840-1D-UNV-STD-W-12

Issue Date: 12/17/2024

**Test Information**

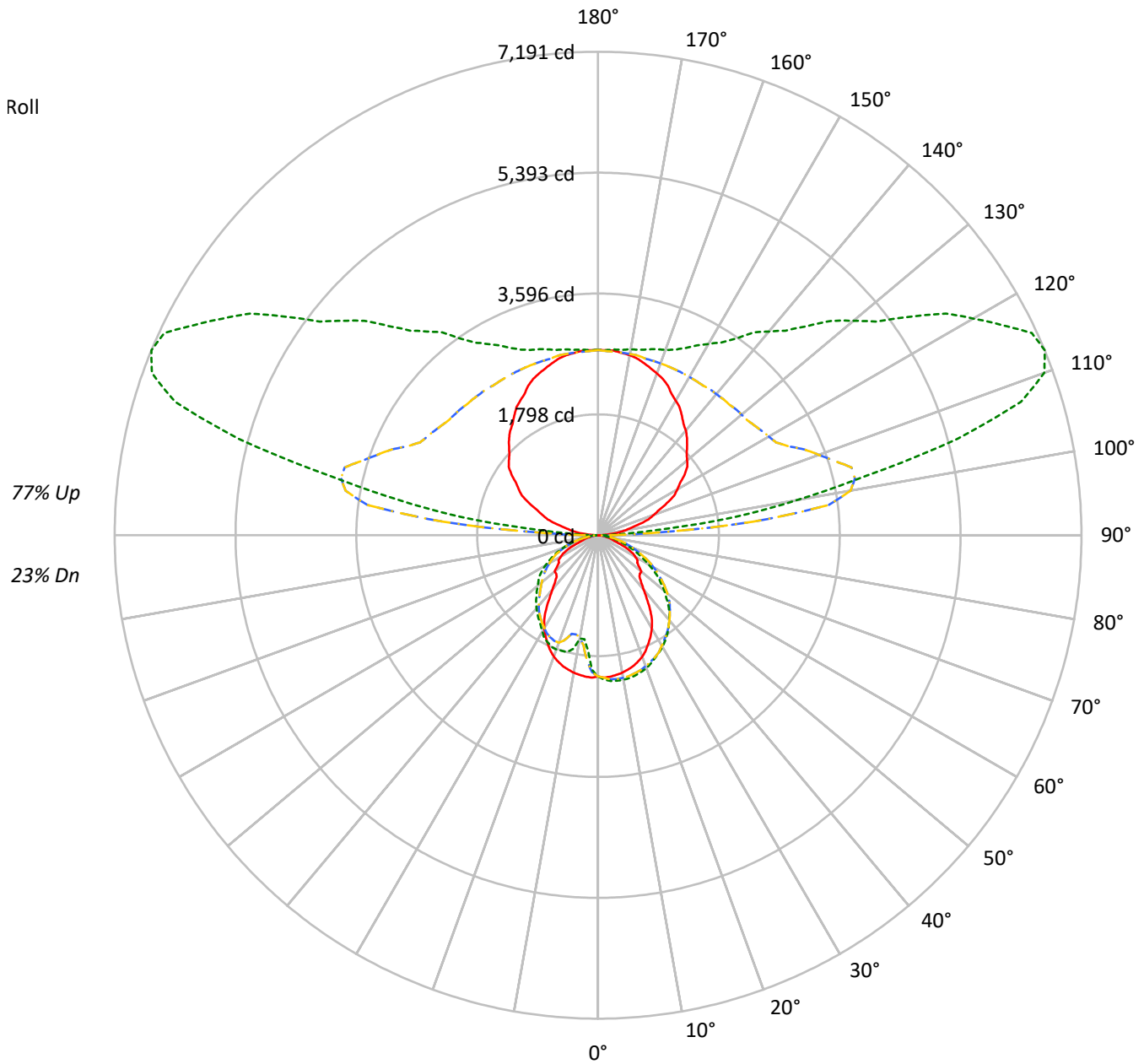
Test Method: LM-79-2019  
Report Number: P935817  
REPORT IS A COMBINATION OF REPORTS P933769 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-050D-840-1D-UNV-STD-W-12  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 23314.8 lumens  
Efficiency: N/A  
Efficacy: 139.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 166.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20				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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	27	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	23	23	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	19	19	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	16	16	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	14	14	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	12	12	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	11	11	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	10	10	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	9	9	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	8	8	8	6

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

	0°	90°	180°	270°
0°	6499	6499	6499	6499
5°	6550	6561	6550	5158
10°	6509	6462	6509	4620
15°	6440	6322	6440	5279
20°	6308	6156	6308	5290
25°	6035	5915	6035	5178
30°	5681	5714	5681	4932
35°	5067	5460	5067	4662
40°	4224	5161	4224	4457
45°	3777	4810	3777	4222
50°	4016	4393	4016	3986
55°	3782	3943	3782	3850
60°	3903	3349	3903	3526
65°	3545	2769	3545	3095
70°	2460	2206	2460	2594
75°	2165	1631	2165	1953
80°	1757	1078	1757	1174
85°	1030	571	1030	486

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 0°  
 Vertical Angle: 90°  
 Luminance: 6867 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	189.7	0.8
10°-20°	538.5	2.3
20°-30°	832.4	3.6
30°-40°	993.7	4.3
40°-50°	999.6	4.3
50°-60°	869.7	3.7
60°-70°	616.7	2.6
70°-80°	326.3	1.4
80°-90°	91.8	0.4
90°-100°	1342.7	5.8
100°-110°	3530.0	15.1
110°-120°	3660.2	15.7
120°-130°	2936.0	12.6
130°-140°	2303.7	9.9
140°-150°	1768.2	7.6
150°-160°	1273.4	5.5
160°-170°	779.1	3.3
170°-180°	263.2	1.1
0°-30°	1560.6	6.7
0°-40°	2554.3	11.0
0°-60°	4423.7	19.0
0°-90°	5458.3	23.4
90°-120°	8532.9	36.6
90°-150°	15540.7	66.7
90°-180°	17856.0	76.6
0°-180°	23314.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	2101	2101	2101	2101	2101	
5°	2111	2177	2111	1712	2111	200
15°	2016	2157	2016	1801	2016	567
25°	1775	2012	1775	1761	1775	815
35°	1350	1795	1350	1533	1350	835
45°	871	1479	871	1298	871	697
55°	710	1091	710	1066	710	652
65°	493	658	493	736	493	471
75°	187	312	187	374	187	196
85°	32	80	32	68	32	43
90°	18	70	18	70	18	17
95°	177	812	177	812	177	197
105°	636	5528	636	5528	636	674
115°	1130	7117	1130	7117	1130	1116
125°	1571	5668	1571	5668	1571	1395
135°	1873	4398	1873	4398	1873	1449
145°	2172	3568	2172	3568	2172	1361
155°	2455	3072	2455	3072	2455	1128
165°	2649	2862	2649	2862	2649	748
175°	2754	2773	2754	2773	2754	261
180°	2754	2754	2754	2754	2754	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1
2.5°	2119.0	2119.0	2130.9	2134.9	2134.9	2128.9	2123.0	2128.9	2146.8	2152.8	2150.8
5°	2111.1	2127.0	2148.8	2152.8	2156.8	2154.8	2150.8	2154.8	2174.7	2178.6	2180.6
7.5°	2095.2	2125.0	2152.8	2158.8	2164.7	2158.8	2156.8	2160.8	2180.6	2184.6	2184.6
10°	2075.3	2117.0	2148.8	2152.8	2158.8	2152.8	2152.8	2160.8	2180.6	2184.6	2186.6
12.5°	2047.4	2105.1	2134.9	2138.9	2146.8	2144.8	2142.9	2150.8	2170.7	2174.7	2174.7
15°	2015.6	2083.2	2111.1	2115.0	2128.9	2125.0	2125.0	2132.9	2154.8	2160.8	2158.8
17.5°	1971.9	2055.4	2087.2	2093.2	2103.2	2101.1	2103.2	2111.1	2130.9	2134.9	2136.9
20°	1922.3	2017.6	2055.4	2061.4	2071.3	2071.3	2071.3	2081.2	2101.1	2109.1	2109.1
22.5°	1854.7	1977.9	2017.6	2021.6	2033.5	2033.5	2037.6	2051.4	2069.3	2071.3	2071.3
25°	1775.1	1934.1	1967.9	1979.9	1991.8	1997.7	2003.8	2011.7	2017.6	2015.6	2017.6
27.5°	1691.7	1878.5	1922.3	1930.2	1946.1	1952.0	1960.0	1962.0	1963.9	1969.9	1965.9
30°	1598.2	1800.9	1866.5	1874.5	1900.3	1904.4	1896.4	1900.3	1910.3	1914.2	1918.2
32.5°	1492.9	1685.6	1808.9	1826.8	1850.6	1838.8	1836.7	1842.7	1858.6	1858.6	1862.6
35°	1349.7	1596.2	1755.3	1771.2	1789.1	1775.1	1783.0	1785.0	1795.0	1800.9	1799.0
37.5°	1192.7	1518.7	1699.6	1711.5	1725.4	1707.6	1719.4	1725.4	1733.3	1729.4	1729.4
40°	1053.5	1397.4	1634.0	1642.0	1653.8	1640.0	1651.8	1655.9	1659.8	1655.9	1653.8
42.5°	950.2	1264.2	1564.4	1574.4	1566.4	1576.4	1580.3	1588.3	1582.3	1574.4	1574.4
45°	870.6	1228.5	1488.9	1500.8	1488.9	1504.8	1510.8	1510.8	1492.9	1488.9	1486.8
47.5°	844.8	1156.9	1413.3	1413.3	1407.4	1427.3	1437.1	1423.3	1405.4	1399.4	1399.4
50°	842.9	1077.4	1310.0	1302.0	1329.8	1353.7	1343.8	1329.8	1315.9	1294.1	1294.1
52.5°	765.3	980.0	1176.8	1206.6	1250.3	1264.2	1248.3	1234.4	1210.6	1200.6	1192.7
55°	709.7	878.6	1055.5	1115.2	1160.9	1178.8	1148.9	1135.0	1099.2	1093.3	1089.4
57.5°	697.7	731.5	944.2	1019.7	1075.4	1073.5	1055.5	1029.7	999.9	993.9	992.0
60°	640.1	528.8	825.0	914.4	972.0	966.1	950.2	926.3	898.5	894.5	890.6
62.5°	580.4	383.6	689.7	791.2	872.6	870.6	856.8	820.9	801.1	791.2	783.2
65°	493.0	322.0	491.0	658.0	775.3	779.2	749.4	723.6	701.7	689.7	687.7
67.5°	375.7	262.4	332.0	548.6	681.8	677.9	640.1	628.2	600.3	594.4	582.4
70°	278.3	175.0	230.6	445.3	590.4	580.4	550.6	536.7	510.9	497.0	489.0
72.5°	230.6	141.1	168.9	345.9	497.0	485.0	459.2	443.3	421.4	409.5	401.5
75°	186.8	149.1	129.2	256.4	403.5	395.6	371.7	355.8	337.9	322.0	324.0
77.5°	137.1	139.1	103.3	188.8	320.0	308.2	294.2	274.4	266.4	250.5	250.5
80°	103.3	109.4	77.6	129.2	230.6	230.6	218.6	204.7	190.8	182.9	182.9
82.5°	69.6	69.6	57.6	81.5	157.0	151.1	143.2	139.1	131.2	127.3	127.3
85°	31.8	39.7	35.8	49.7	85.5	89.4	89.4	85.5	83.5	79.5	81.5
87.5°	10.0	17.9	21.8	27.9	43.8	45.7	47.7	47.7	47.7	49.7	49.7
90°	18.5	33.3	48.1	51.8	81.3	120.7	140.5	124.9	93.7	70.2	70.2
92.5°	73.9	199.6	325.3	356.8	501.6	694.7	791.2	693.4	497.9	351.2	337.3
95°	177.4	407.5	637.6	695.1	1234.3	1953.3	2312.7	2063.7	1565.9	1192.4	1150.1
97.5°	306.9	509.8	712.7	763.5	1662.6	2861.3	3460.7	3303.4	2988.7	2752.7	2672.1
100°	406.7	590.7	774.8	820.8	1818.5	3148.7	3813.8	3825.2	3848.3	3865.6	3769.6
102.5°	491.7	663.4	835.2	878.1	1889.9	3239.1	3913.7	4114.1	4515.1	4815.8	4733.6
105°	636.0	781.4	926.8	963.2	1943.0	3249.3	3902.5	4351.9	5250.8	5924.9	5880.8
107.5°	783.9	919.4	1055.0	1088.9	1952.8	3104.7	3680.7	4307.6	5561.4	6501.7	6512.4
110°	883.7	1006.1	1128.5	1159.1	1938.1	2976.5	3495.8	4196.7	5598.4	6649.6	6695.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	981.7	1098.4	1215.0	1244.2	1938.7	2864.6	3327.6	4044.9	5479.4	6555.4	6626.0
115°	1129.6	1237.2	1344.9	1371.7	1956.5	2736.3	3126.1	3817.1	5199.1	6235.6	6333.6
117.5°	1275.6	1373.3	1471.1	1495.5	1992.8	2655.8	2987.4	3611.0	4858.3	5793.7	5902.4
120°	1360.6	1452.7	1544.6	1567.7	2022.4	2628.8	2932.0	3501.8	4641.3	5496.0	5601.7
122.5°	1443.8	1536.6	1629.5	1652.7	2065.0	2614.6	2889.5	3402.6	4428.8	5198.5	5302.6
125°	1571.4	1656.0	1740.7	1761.8	2122.3	2603.0	2843.3	3279.2	4150.9	4804.6	4900.6
127.5°	1674.9	1760.3	1845.8	1867.1	2179.5	2596.2	2804.4	3178.7	3927.2	4488.6	4569.5
130°	1730.4	1822.4	1914.3	1937.4	2221.4	2600.2	2789.6	3122.8	3789.2	4288.9	4363.7
132.5°	1787.7	1879.7	1971.7	1994.7	2255.3	2602.9	2776.7	3075.0	3671.5	4118.9	4185.9
135°	1872.7	1956.4	2040.3	2061.3	2292.4	2600.5	2754.5	3004.3	3503.8	3878.5	3936.2
137.5°	1959.6	2042.6	2125.6	2146.3	2347.8	2616.4	2750.8	2961.9	3384.3	3701.0	3748.3
140°	2031.7	2108.1	2184.6	2203.6	2381.7	2619.1	2737.8	2920.2	3285.1	3558.7	3602.8
142.5°	2087.2	2157.8	2228.4	2246.1	2410.0	2628.6	2737.8	2898.1	3218.5	3458.9	3496.9
145°	2172.2	2233.9	2295.4	2310.8	2447.0	2628.6	2719.4	2850.4	3112.5	3309.1	3337.9
147.5°	2257.2	2317.2	2377.1	2392.1	2501.2	2646.7	2719.4	2822.5	3028.7	3183.4	3207.2
150°	2312.7	2367.0	2421.2	2434.7	2529.6	2656.1	2719.4	2806.5	2980.7	3111.3	3130.6
152.5°	2370.0	2411.1	2452.1	2462.4	2548.1	2662.3	2719.4	2793.8	2942.5	3054.0	3068.6
155°	2455.1	2485.5	2515.8	2523.5	2588.8	2675.8	2719.4	2778.6	2896.9	2985.6	2995.3
157.5°	2517.9	2547.5	2577.0	2584.4	2629.4	2689.3	2719.4	2765.4	2857.4	2926.5	2933.3
160°	2560.4	2583.4	2606.4	2612.2	2647.9	2695.6	2719.4	2758.8	2837.6	2896.8	2900.8
162.5°	2602.9	2620.2	2637.4	2641.7	2667.6	2702.1	2719.4	2752.7	2819.3	2869.2	2872.8
165°	2649.1	2664.7	2680.3	2684.3	2696.0	2711.6	2719.4	2743.2	2790.8	2826.6	2830.5
167.5°	2691.7	2699.1	2706.4	2708.3	2718.2	2731.3	2737.8	2753.5	2784.7	2808.1	2809.8
170°	2719.4	2726.8	2734.2	2736.1	2736.7	2737.5	2737.8	2753.5	2784.7	2808.1	2808.1
172.5°	2734.2	2735.8	2737.5	2737.8	2737.8	2737.8	2737.8	2750.2	2774.9	2793.4	2791.9
175°	2754.5	2754.5	2754.5	2754.5	2749.0	2741.6	2737.8	2745.7	2761.3	2773.0	2773.0
177.5°	2754.5	2754.5	2754.5	2754.5	2750.2	2744.5	2741.6	2747.7	2760.1	2769.3	2767.6
180°	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1
2.5°	2154.8	2148.8	2154.8	2150.8	2152.8	2146.8	2128.9	2123.0	2128.9	2134.9	2134.9
5°	2180.6	2176.7	2180.6	2180.6	2178.6	2174.7	2154.8	2150.8	2154.8	2156.8	2152.8
7.5°	2188.6	2182.6	2188.6	2184.6	2184.6	2180.6	2160.8	2156.8	2158.8	2164.7	2158.8
10°	2188.6	2182.6	2188.6	2186.6	2184.6	2180.6	2160.8	2152.8	2152.8	2158.8	2152.8
12.5°	2178.6	2174.7	2178.6	2174.7	2174.7	2170.7	2150.8	2142.9	2144.8	2146.8	2138.9
15°	2162.7	2156.8	2162.7	2158.8	2160.8	2154.8	2132.9	2125.0	2125.0	2128.9	2115.0
17.5°	2138.9	2130.9	2138.9	2136.9	2134.9	2130.9	2111.1	2103.2	2101.1	2103.2	2093.2
20°	2111.1	2105.1	2111.1	2109.1	2109.1	2101.1	2081.2	2071.3	2071.3	2071.3	2061.4
22.5°	2067.3	2061.4	2067.3	2071.3	2071.3	2069.3	2051.4	2037.6	2033.5	2033.5	2021.6
25°	2017.6	2011.7	2017.6	2017.6	2015.6	2017.6	2011.7	2003.8	1997.7	1991.8	1979.9
27.5°	1969.9	1965.9	1969.9	1965.9	1969.9	1963.9	1962.0	1960.0	1952.0	1946.1	1930.2
30°	1922.3	1918.2	1922.3	1918.2	1914.2	1910.3	1900.3	1896.4	1904.4	1900.3	1874.5
32.5°	1862.6	1858.6	1862.6	1862.6	1858.6	1858.6	1842.7	1836.7	1838.8	1850.6	1826.8
35°	1800.9	1795.0	1800.9	1799.0	1800.9	1795.0	1785.0	1783.0	1775.1	1789.1	1771.2
37.5°	1729.4	1723.5	1729.4	1729.4	1729.4	1733.3	1725.4	1719.4	1707.6	1725.4	1711.5
40°	1655.9	1647.9	1655.9	1653.8	1655.9	1659.8	1655.9	1651.8	1640.0	1653.8	1642.0
42.5°	1572.4	1570.3	1572.4	1574.4	1574.4	1582.3	1588.3	1580.3	1576.4	1566.4	1574.4
45°	1482.9	1478.9	1482.9	1486.8	1488.9	1492.9	1510.8	1510.8	1504.8	1488.9	1500.8
47.5°	1387.4	1377.6	1387.4	1399.4	1399.4	1405.4	1423.3	1437.1	1427.3	1407.4	1413.3
50°	1286.1	1288.1	1286.1	1294.1	1294.1	1315.9	1329.8	1343.8	1353.7	1329.8	1302.0
52.5°	1186.7	1184.7	1186.7	1192.7	1200.6	1210.6	1234.4	1248.3	1264.2	1250.3	1206.6
55°	1087.3	1091.3	1087.3	1089.4	1093.3	1099.2	1135.0	1148.9	1178.8	1160.9	1115.2
57.5°	987.9	982.0	987.9	992.0	993.9	999.9	1029.7	1055.5	1073.5	1075.4	1019.7
60°	872.6	864.7	872.6	890.6	894.5	898.5	926.3	950.2	966.1	972.0	914.4
62.5°	771.2	757.4	771.2	783.2	791.2	801.1	820.9	856.8	870.6	872.6	791.2
65°	663.9	658.0	663.9	687.7	689.7	701.7	723.6	749.4	779.2	775.3	658.0
67.5°	566.5	566.5	566.5	582.4	594.4	600.3	628.2	640.1	677.9	681.8	548.6
70°	477.1	475.1	477.1	489.0	497.0	510.9	536.7	550.6	580.4	590.4	445.3
72.5°	391.6	389.6	391.6	401.5	409.5	421.4	443.3	459.2	485.0	497.0	345.9
75°	316.1	312.1	316.1	324.0	322.0	337.9	355.8	371.7	395.6	403.5	256.4
77.5°	242.6	242.6	242.6	250.5	250.5	266.4	274.4	294.2	308.2	320.0	188.8
80°	180.9	178.9	180.9	182.9	182.9	190.8	204.7	218.6	230.6	230.6	129.2
82.5°	127.3	123.2	127.3	127.3	127.3	131.2	139.1	143.2	151.1	157.0	81.5
85°	79.5	79.5	79.5	81.5	79.5	83.5	85.5	89.4	89.4	85.5	49.7
87.5°	51.7	49.7	51.7	49.7	49.7	47.7	47.7	47.7	45.7	43.8	27.9
90°	70.2	70.2	70.2	70.2	70.2	93.7	124.9	140.5	120.7	81.3	51.8
92.5°	281.4	225.6	281.4	337.3	351.2	497.9	693.4	791.2	694.7	501.6	356.8
95°	980.8	811.5	980.8	1150.1	1192.4	1565.9	2063.7	2312.7	1953.3	1234.3	695.1
97.5°	2350.1	2028.0	2350.1	2672.1	2752.7	2988.7	3303.4	3460.7	2861.3	1662.6	763.5
100°	3386.0	3002.2	3386.0	3769.6	3865.6	3848.3	3825.2	3813.8	3148.7	1818.5	820.8
102.5°	4405.0	4076.3	4405.0	4733.6	4815.8	4515.1	4114.1	3913.7	3239.1	1889.9	878.1
105°	5704.2	5527.6	5704.2	5880.8	5924.9	5250.8	4351.9	3902.5	3249.3	1943.0	963.2
107.5°	6555.2	6597.9	6555.2	6512.4	6501.7	5561.4	4307.6	3680.7	3104.7	1952.8	1088.9
110°	6879.7	7063.8	6879.7	6695.7	6649.6	5598.4	4196.7	3495.8	2976.5	1938.1	1159.1





TEST NUMBER: P935817

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	6908.7	7191.4	6908.7	6626.0	6555.4	5479.4	4044.9	3327.6	2864.6	1938.7	1244.2
115°	6725.4	7117.4	6725.4	6333.6	6235.6	5199.1	3817.1	3126.1	2736.3	1956.5	1371.7
117.5°	6337.0	6771.7	6337.0	5902.4	5793.7	4858.3	3611.0	2987.4	2655.8	1992.8	1495.5
120°	6023.9	6446.3	6023.9	5601.7	5496.0	4641.3	3501.8	2932.0	2628.8	2022.4	1567.7
122.5°	5719.2	6135.8	5719.2	5302.6	5198.5	4428.8	3402.6	2889.5	2614.6	2065.0	1652.7
125°	5284.3	5668.1	5284.3	4900.6	4804.6	4150.9	3279.2	2843.3	2603.0	2122.3	1761.8
127.5°	4893.3	5216.9	4893.3	4569.5	4488.6	3927.2	3178.7	2804.4	2596.2	2179.5	1867.1
130°	4662.8	4961.8	4662.8	4363.7	4288.9	3789.2	3122.8	2789.6	2600.2	2221.4	1937.4
132.5°	4453.6	4721.5	4453.6	4185.9	4118.9	3671.5	3075.0	2776.7	2602.9	2255.3	1994.7
135°	4167.1	4398.0	4167.1	3936.2	3878.5	3503.8	3004.3	2754.5	2600.5	2292.4	2061.3
137.5°	3937.3	4126.2	3937.3	3748.3	3701.0	3384.3	2961.9	2750.8	2616.4	2347.8	2146.3
140°	3779.5	3956.1	3779.5	3602.8	3558.7	3285.1	2920.2	2737.8	2619.1	2381.7	2203.6
142.5°	3648.9	3800.8	3648.9	3496.9	3458.9	3218.5	2898.1	2737.8	2628.6	2410.0	2246.1
145°	3453.0	3568.0	3453.0	3337.9	3309.1	3112.5	2850.4	2719.4	2628.6	2447.0	2310.8
147.5°	3302.6	3397.8	3302.6	3207.2	3183.4	3028.7	2822.5	2719.4	2646.7	2501.2	2392.1
150°	3207.8	3285.1	3207.8	3130.6	3111.3	2980.7	2806.5	2719.4	2656.1	2529.6	2434.7
152.5°	3126.9	3185.2	3126.9	3068.6	3054.0	2942.5	2793.8	2719.4	2662.3	2548.1	2462.4
155°	3033.9	3072.5	3033.9	2995.3	2985.6	2896.9	2778.6	2719.4	2675.8	2588.8	2523.5
157.5°	2960.3	2987.4	2960.3	2933.3	2926.5	2857.4	2765.4	2719.4	2689.3	2629.4	2584.4
160°	2916.4	2932.0	2916.4	2900.8	2896.8	2837.6	2758.8	2719.4	2695.6	2647.9	2612.2
162.5°	2887.6	2902.4	2887.6	2872.8	2869.2	2819.3	2752.7	2719.4	2702.1	2667.6	2641.7
165°	2846.1	2861.7	2846.1	2830.5	2826.6	2790.8	2743.2	2719.4	2711.6	2696.0	2684.3
167.5°	2816.3	2822.9	2816.3	2809.8	2808.1	2784.7	2753.5	2737.8	2731.3	2718.2	2708.3
170°	2808.1	2808.1	2808.1	2808.1	2808.1	2784.7	2753.5	2737.8	2737.5	2736.7	2736.1
172.5°	2786.2	2780.4	2786.2	2791.9	2793.4	2774.9	2750.2	2737.8	2737.8	2737.8	2737.8
175°	2773.0	2773.0	2773.0	2773.0	2773.0	2761.3	2745.7	2737.8	2741.6	2749.0	2754.5
177.5°	2761.1	2754.5	2761.1	2767.6	2769.3	2760.1	2747.7	2741.6	2744.5	2750.2	2754.5
180°	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1
2.5°	2130.9	2119.0	2119.0	2099.1	2091.2	2085.2	2075.3	2045.5	2037.6	2029.5	2041.5
5°	2148.8	2127.0	2111.1	2075.3	2045.5	2033.5	1995.8	1924.2	1876.5	1840.7	1820.9
7.5°	2152.8	2125.0	2095.2	2039.5	1967.9	1936.1	1820.9	1689.7	1653.8	1622.1	1602.1
10°	2148.8	2117.0	2075.3	1991.8	1822.9	1767.1	1651.8	1566.4	1544.5	1538.6	1544.5
12.5°	2134.9	2105.1	2047.4	1908.3	1671.8	1634.0	1566.4	1516.7	1512.7	1522.7	1576.4
15°	2111.1	2083.2	2015.6	1797.0	1588.3	1560.4	1512.7	1494.8	1516.7	1586.2	1747.3
17.5°	2087.2	2055.4	1971.9	1687.7	1524.7	1504.8	1470.9	1506.8	1630.0	1723.5	1777.1
20°	2055.4	2017.6	1922.3	1608.2	1478.9	1461.1	1445.1	1606.2	1699.6	1733.3	1763.2
22.5°	2017.6	1977.9	1854.7	1552.4	1431.2	1417.3	1427.3	1661.8	1699.6	1723.5	1749.3
25°	1967.9	1934.1	1775.1	1508.8	1393.5	1377.6	1415.3	1655.9	1677.7	1683.7	1735.3
27.5°	1922.3	1878.5	1691.7	1469.0	1347.7	1341.8	1425.3	1630.0	1645.9	1651.8	1707.6
30°	1866.5	1800.9	1598.2	1427.3	1300.0	1298.0	1427.3	1598.2	1594.2	1610.1	1665.8
32.5°	1808.9	1685.6	1492.9	1375.6	1254.3	1252.3	1413.3	1550.5	1546.5	1568.4	1610.1
35°	1755.3	1596.2	1349.7	1315.9	1196.7	1198.6	1379.5	1494.8	1496.8	1516.7	1542.6
37.5°	1699.6	1518.7	1192.7	1250.3	1141.0	1141.0	1333.8	1443.2	1439.2	1445.1	1480.9
40°	1634.0	1397.4	1053.5	1164.9	1089.4	1083.3	1278.2	1387.4	1373.6	1371.6	1421.2
42.5°	1564.4	1264.2	950.2	1051.5	1029.7	1021.7	1210.6	1319.9	1294.1	1300.0	1363.6
45°	1488.9	1228.5	870.6	888.5	968.0	962.1	1137.0	1242.4	1224.5	1240.4	1306.0
47.5°	1413.3	1156.9	844.8	737.4	902.4	900.5	1055.5	1166.8	1156.9	1172.9	1242.4
50°	1310.0	1077.4	842.9	632.1	828.9	836.8	958.2	1093.3	1093.3	1107.3	1180.8
52.5°	1176.8	980.0	765.3	572.4	743.5	767.3	872.6	1029.7	1033.6	1047.6	1113.2
55°	1055.5	878.6	709.7	526.8	642.1	693.8	789.1	964.1	972.0	985.9	1045.6
57.5°	944.2	731.5	697.7	473.1	548.6	598.3	715.6	900.5	904.4	916.4	974.1
60°	825.0	528.8	640.1	415.5	467.1	504.9	648.0	825.0	838.8	846.8	896.5
62.5°	689.7	383.6	580.4	375.7	427.4	435.3	592.4	753.4	771.2	777.3	807.1
65°	491.0	322.0	493.0	341.9	385.6	387.6	532.7	679.8	695.7	705.6	727.6
67.5°	332.0	262.4	375.7	310.1	353.8	355.8	475.1	594.4	616.2	624.2	638.1
70°	230.6	175.0	278.3	276.3	318.0	322.0	413.5	516.8	536.7	542.7	550.6
72.5°	168.9	141.1	230.6	248.5	280.3	284.2	349.9	429.4	449.2	455.2	459.2
75°	129.2	149.1	186.8	216.7	238.5	240.5	286.2	349.9	363.8	367.7	369.7
77.5°	103.3	139.1	137.1	175.0	194.8	190.8	224.7	270.3	282.3	282.3	282.3
80°	77.6	109.4	103.3	125.3	143.2	139.1	161.0	192.9	196.8	200.8	198.8
82.5°	57.6	69.6	69.6	79.5	95.4	91.5	107.3	125.3	125.3	125.3	129.2
85°	35.8	39.7	31.8	41.8	53.6	51.7	59.7	67.6	69.6	69.6	65.6
87.5°	21.8	17.9	10.0	15.9	23.8	23.8	27.9	29.8	27.9	27.9	27.9
90°	48.1	33.3	18.5	33.3	48.1	51.8	81.3	120.7	140.5	124.9	93.7
92.5°	325.3	199.6	73.9	199.6	325.3	356.8	501.6	694.7	791.2	693.4	497.9
95°	637.6	407.5	177.4	407.5	637.6	695.1	1234.3	1953.3	2312.7	2063.7	1565.9
97.5°	712.7	509.8	306.9	509.8	712.7	763.5	1662.6	2861.3	3460.7	3303.4	2988.7
100°	774.8	590.7	406.7	590.7	774.8	820.8	1818.5	3148.7	3813.8	3825.2	3848.3
102.5°	835.2	663.4	491.7	663.4	835.2	878.1	1889.9	3239.1	3913.7	4114.1	4515.1
105°	926.8	781.4	636.0	781.4	926.8	963.2	1943.0	3249.3	3902.5	4351.9	5250.8
107.5°	1055.0	919.4	783.9	919.4	1055.0	1088.9	1952.8	3104.7	3680.7	4307.6	5561.4
110°	1128.5	1006.1	883.7	1006.1	1128.5	1159.1	1938.1	2976.5	3495.8	4196.7	5598.4



TEST NUMBER: P935817

CATALOG NUMBER: SQ4-FA-150U-050D-840-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	1215.0	1098.4	981.7	1098.4	1215.0	1244.2	1938.7	2864.6	3327.6	4044.9	5479.4
115°	1344.9	1237.2	1129.6	1237.2	1344.9	1371.7	1956.5	2736.3	3126.1	3817.1	5199.1
117.5°	1471.1	1373.3	1275.6	1373.3	1471.1	1495.5	1992.8	2655.8	2987.4	3611.0	4858.3
120°	1544.6	1452.7	1360.6	1452.7	1544.6	1567.7	2022.4	2628.8	2932.0	3501.8	4641.3
122.5°	1629.5	1536.6	1443.8	1536.6	1629.5	1652.7	2065.0	2614.6	2889.5	3402.6	4428.8
125°	1740.7	1656.0	1571.4	1656.0	1740.7	1761.8	2122.3	2603.0	2843.3	3279.2	4150.9
127.5°	1845.8	1760.3	1674.9	1760.3	1845.8	1867.1	2179.5	2596.2	2804.4	3178.7	3927.2
130°	1914.3	1822.4	1730.4	1822.4	1914.3	1937.4	2221.4	2600.2	2789.6	3122.8	3789.2
132.5°	1971.7	1879.7	1787.7	1879.7	1971.7	1994.7	2255.3	2602.9	2776.7	3075.0	3671.5
135°	2040.3	1956.4	1872.7	1956.4	2040.3	2061.3	2292.4	2600.5	2754.5	3004.3	3503.8
137.5°	2125.6	2042.6	1959.6	2042.6	2125.6	2146.3	2347.8	2616.4	2750.8	2961.9	3384.3
140°	2184.6	2108.1	2031.7	2108.1	2184.6	2203.6	2381.7	2619.1	2737.8	2920.2	3285.1
142.5°	2228.4	2157.8	2087.2	2157.8	2228.4	2246.1	2410.0	2628.6	2737.8	2898.1	3218.5
145°	2295.4	2233.9	2172.2	2233.9	2295.4	2310.8	2447.0	2628.6	2719.4	2850.4	3112.5
147.5°	2377.1	2317.2	2257.2	2317.2	2377.1	2392.1	2501.2	2646.7	2719.4	2822.5	3028.7
150°	2421.2	2367.0	2312.7	2367.0	2421.2	2434.7	2529.6	2656.1	2719.4	2806.5	2980.7
152.5°	2452.1	2411.1	2370.0	2411.1	2452.1	2462.4	2548.1	2662.3	2719.4	2793.8	2942.5
155°	2515.8	2485.5	2455.1	2485.5	2515.8	2523.5	2588.8	2675.8	2719.4	2778.6	2896.9
157.5°	2577.0	2547.5	2517.9	2547.5	2577.0	2584.4	2629.4	2689.3	2719.4	2765.4	2857.4
160°	2606.4	2583.4	2560.4	2583.4	2606.4	2612.2	2647.9	2695.6	2719.4	2758.8	2837.6
162.5°	2637.4	2620.2	2602.9	2620.2	2637.4	2641.7	2667.6	2702.1	2719.4	2752.7	2819.3
165°	2680.3	2664.7	2649.1	2664.7	2680.3	2684.3	2696.0	2711.6	2719.4	2743.2	2790.8
167.5°	2706.4	2699.1	2691.7	2699.1	2706.4	2708.3	2718.2	2731.3	2737.8	2753.5	2784.7
170°	2734.2	2726.8	2719.4	2726.8	2734.2	2736.1	2736.7	2737.5	2737.8	2753.5	2784.7
172.5°	2737.5	2735.8	2734.2	2735.8	2737.5	2737.8	2737.8	2737.8	2737.8	2750.2	2774.9
175°	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2749.0	2741.6	2737.8	2745.7	2761.3
177.5°	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2750.2	2744.5	2741.6	2747.7	2760.1
180°	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5



TEST NUMBER: P935817

CATALOG NUMBER: SQ4-FA-150U-050D-840-1D-UNV-STD-W-12

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1	2101.1
2.5°	2027.6	2021.6	2029.5	2007.7	2029.5	2021.6	2027.6	2041.5	2029.5	2037.6	2045.5
5°	1779.1	1769.1	1737.4	1711.5	1737.4	1769.1	1779.1	1820.9	1840.7	1876.5	1924.2
7.5°	1590.3	1582.3	1574.4	1558.5	1574.4	1582.3	1590.3	1602.1	1622.1	1653.8	1689.7
10°	1548.5	1550.5	1562.4	1560.4	1562.4	1550.5	1548.5	1544.5	1538.6	1544.5	1566.4
12.5°	1655.9	1673.8	1739.4	1735.3	1739.4	1673.8	1655.9	1576.4	1522.7	1512.7	1516.7
15°	1779.1	1785.0	1799.0	1800.9	1799.0	1785.0	1779.1	1747.3	1586.2	1516.7	1494.8
17.5°	1791.0	1793.0	1802.9	1802.9	1802.9	1793.0	1791.0	1777.1	1723.5	1630.0	1506.8
20°	1781.1	1785.0	1805.0	1808.9	1805.0	1785.0	1781.1	1763.2	1733.3	1699.6	1606.2
22.5°	1777.1	1785.0	1800.9	1799.0	1800.9	1785.0	1777.1	1749.3	1723.5	1699.6	1661.8
25°	1757.3	1757.3	1759.2	1761.2	1759.2	1757.3	1757.3	1735.3	1683.7	1677.7	1655.9
27.5°	1715.5	1719.4	1731.4	1729.4	1731.4	1719.4	1715.5	1707.6	1651.8	1645.9	1630.0
30°	1677.7	1673.8	1663.8	1655.9	1663.8	1673.8	1677.7	1665.8	1610.1	1594.2	1598.2
32.5°	1614.1	1604.1	1594.2	1588.3	1594.2	1604.1	1614.1	1610.1	1568.4	1546.5	1550.5
35°	1538.6	1540.6	1538.6	1532.6	1538.6	1540.6	1538.6	1542.6	1516.7	1496.8	1494.8
37.5°	1484.9	1488.9	1486.8	1478.9	1486.8	1488.9	1484.9	1480.9	1445.1	1439.2	1443.2
40°	1429.2	1431.2	1429.2	1423.3	1429.2	1431.2	1429.2	1421.2	1371.6	1373.6	1387.4
42.5°	1375.6	1373.6	1367.6	1363.6	1367.6	1373.6	1375.6	1363.6	1300.0	1294.1	1319.9
45°	1313.9	1315.9	1304.0	1298.0	1304.0	1315.9	1313.9	1306.0	1240.4	1224.5	1242.4
47.5°	1252.3	1252.3	1242.4	1236.4	1242.4	1252.3	1252.3	1242.4	1172.9	1156.9	1166.8
50°	1186.7	1184.7	1170.8	1168.8	1170.8	1184.7	1186.7	1180.8	1107.3	1093.3	1093.3
52.5°	1111.2	1111.2	1113.2	1117.1	1113.2	1111.2	1111.2	1113.2	1047.6	1033.6	1029.7
55°	1045.6	1047.6	1061.5	1065.5	1061.5	1047.6	1045.6	1045.6	985.9	972.0	964.1
57.5°	978.0	978.0	987.9	987.9	987.9	978.0	978.0	974.1	916.4	904.4	900.5
60°	900.5	904.4	912.4	910.4	912.4	904.4	900.5	896.5	846.8	838.8	825.0
62.5°	819.0	823.0	825.0	820.9	825.0	823.0	819.0	807.1	777.3	771.2	753.4
65°	733.5	737.4	739.4	735.5	739.4	737.4	733.5	727.6	705.6	695.7	679.8
67.5°	646.1	644.1	642.1	650.0	642.1	644.1	646.1	638.1	624.2	616.2	594.4
70°	556.5	556.5	554.6	558.6	554.6	556.5	556.5	550.6	542.7	536.7	516.8
72.5°	461.2	459.2	467.1	461.2	467.1	459.2	461.2	459.2	455.2	449.2	429.4
75°	367.7	371.7	367.7	373.7	367.7	371.7	367.7	369.7	367.7	363.8	349.9
77.5°	280.3	284.2	280.3	280.3	280.3	284.2	280.3	282.3	282.3	282.3	270.3
80°	198.8	196.8	196.8	194.8	196.8	196.8	198.8	198.8	200.8	196.8	192.9
82.5°	127.3	125.3	125.3	129.2	125.3	125.3	127.3	129.2	125.3	125.3	125.3
85°	69.6	71.5	67.6	67.6	67.6	71.5	69.6	65.6	69.6	69.6	67.6
87.5°	25.9	23.8	23.8	23.8	23.8	23.8	25.9	27.9	27.9	27.9	29.8
90°	70.2	70.2	70.2	70.2	70.2	70.2	70.2	93.7	124.9	140.5	120.7
92.5°	351.2	337.3	281.4	225.6	281.4	337.3	351.2	497.9	693.4	791.2	694.7
95°	1192.4	1150.1	980.8	811.5	980.8	1150.1	1192.4	1565.9	2063.7	2312.7	1953.3
97.5°	2752.7	2672.1	2350.1	2028.0	2350.1	2672.1	2752.7	2988.7	3303.4	3460.7	2861.3
100°	3865.6	3769.6	3386.0	3002.2	3386.0	3769.6	3865.6	3848.3	3825.2	3813.8	3148.7
102.5°	4815.8	4733.6	4405.0	4076.3	4405.0	4733.6	4815.8	4515.1	4114.1	3913.7	3239.1
105°	5924.9	5880.8	5704.2	5527.6	5704.2	5880.8	5924.9	5250.8	4351.9	3902.5	3249.3
107.5°	6501.7	6512.4	6555.2	6597.9	6555.2	6512.4	6501.7	5561.4	4307.6	3680.7	3104.7
110°	6649.6	6695.7	6879.7	7063.8	6879.7	6695.7	6649.6	5598.4	4196.7	3495.8	2976.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	6555.4	6626.0	6908.7	7191.4	6908.7	6626.0	6555.4	5479.4	4044.9	3327.6	2864.6
115°	6235.6	6333.6	6725.4	7117.4	6725.4	6333.6	6235.6	5199.1	3817.1	3126.1	2736.3
117.5°	5793.7	5902.4	6337.0	6771.7	6337.0	5902.4	5793.7	4858.3	3611.0	2987.4	2655.8
120°	5496.0	5601.7	6023.9	6446.3	6023.9	5601.7	5496.0	4641.3	3501.8	2932.0	2628.8
122.5°	5198.5	5302.6	5719.2	6135.8	5719.2	5302.6	5198.5	4428.8	3402.6	2889.5	2614.6
125°	4804.6	4900.6	5284.3	5668.1	5284.3	4900.6	4804.6	4150.9	3279.2	2843.3	2603.0
127.5°	4488.6	4569.5	4893.3	5216.9	4893.3	4569.5	4488.6	3927.2	3178.7	2804.4	2596.2
130°	4288.9	4363.7	4662.8	4961.8	4662.8	4363.7	4288.9	3789.2	3122.8	2789.6	2600.2
132.5°	4118.9	4185.9	4453.6	4721.5	4453.6	4185.9	4118.9	3671.5	3075.0	2776.7	2602.9
135°	3878.5	3936.2	4167.1	4398.0	4167.1	3936.2	3878.5	3503.8	3004.3	2754.5	2600.5
137.5°	3701.0	3748.3	3937.3	4126.2	3937.3	3748.3	3701.0	3384.3	2961.9	2750.8	2616.4
140°	3558.7	3602.8	3779.5	3956.1	3779.5	3602.8	3558.7	3285.1	2920.2	2737.8	2619.1
142.5°	3458.9	3496.9	3648.9	3800.8	3648.9	3496.9	3458.9	3218.5	2898.1	2737.8	2628.6
145°	3309.1	3337.9	3453.0	3568.0	3453.0	3337.9	3309.1	3112.5	2850.4	2719.4	2628.6
147.5°	3183.4	3207.2	3302.6	3397.8	3302.6	3207.2	3183.4	3028.7	2822.5	2719.4	2646.7
150°	3111.3	3130.6	3207.8	3285.1	3207.8	3130.6	3111.3	2980.7	2806.5	2719.4	2656.1
152.5°	3054.0	3068.6	3126.9	3185.2	3126.9	3068.6	3054.0	2942.5	2793.8	2719.4	2662.3
155°	2985.6	2995.3	3033.9	3072.5	3033.9	2995.3	2985.6	2896.9	2778.6	2719.4	2675.8
157.5°	2926.5	2933.3	2960.3	2987.4	2960.3	2933.3	2926.5	2857.4	2765.4	2719.4	2689.3
160°	2896.8	2900.8	2916.4	2932.0	2916.4	2900.8	2896.8	2837.6	2758.8	2719.4	2695.6
162.5°	2869.2	2872.8	2887.6	2902.4	2887.6	2872.8	2869.2	2819.3	2752.7	2719.4	2702.1
165°	2826.6	2830.5	2846.1	2861.7	2846.1	2830.5	2826.6	2790.8	2743.2	2719.4	2711.6
167.5°	2808.1	2809.8	2816.3	2822.9	2816.3	2809.8	2808.1	2784.7	2753.5	2737.8	2731.3
170°	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1	2808.1	2784.7	2753.5	2737.8	2737.5
172.5°	2793.4	2791.9	2786.2	2780.4	2786.2	2791.9	2793.4	2774.9	2750.2	2737.8	2737.8
175°	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0	2773.0	2761.3	2745.7	2737.8	2741.6
177.5°	2769.3	2767.6	2761.1	2754.5	2761.1	2767.6	2769.3	2760.1	2747.7	2741.6	2744.5
180°	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5	2754.5



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	2101.1	2101.1	2101.1	2101.1	2101.1
2.5°	2075.3	2085.2	2091.2	2099.1	2119.0
5°	1995.8	2033.5	2045.5	2075.3	2111.1
7.5°	1820.9	1936.1	1967.9	2039.5	2095.2
10°	1651.8	1767.1	1822.9	1991.8	2075.3
12.5°	1566.4	1634.0	1671.8	1908.3	2047.4
15°	1512.7	1560.4	1588.3	1797.0	2015.6
17.5°	1470.9	1504.8	1524.7	1687.7	1971.9
20°	1445.1	1461.1	1478.9	1608.2	1922.3
22.5°	1427.3	1417.3	1431.2	1552.4	1854.7
25°	1415.3	1377.6	1393.5	1508.8	1775.1
27.5°	1425.3	1341.8	1347.7	1469.0	1691.7
30°	1427.3	1298.0	1300.0	1427.3	1598.2
32.5°	1413.3	1252.3	1254.3	1375.6	1492.9
35°	1379.5	1198.6	1196.7	1315.9	1349.7
37.5°	1333.8	1141.0	1141.0	1250.3	1192.7
40°	1278.2	1083.3	1089.4	1164.9	1053.5
42.5°	1210.6	1021.7	1029.7	1051.5	950.2
45°	1137.0	962.1	968.0	888.5	870.6
47.5°	1055.5	900.5	902.4	737.4	844.8
50°	958.2	836.8	828.9	632.1	842.9
52.5°	872.6	767.3	743.5	572.4	765.3
55°	789.1	693.8	642.1	526.8	709.7
57.5°	715.6	598.3	548.6	473.1	697.7
60°	648.0	504.9	467.1	415.5	640.1
62.5°	592.4	435.3	427.4	375.7	580.4
65°	532.7	387.6	385.6	341.9	493.0
67.5°	475.1	355.8	353.8	310.1	375.7
70°	413.5	322.0	318.0	276.3	278.3
72.5°	349.9	284.2	280.3	248.5	230.6
75°	286.2	240.5	238.5	216.7	186.8
77.5°	224.7	190.8	194.8	175.0	137.1
80°	161.0	139.1	143.2	125.3	103.3
82.5°	107.3	91.5	95.4	79.5	69.6
85°	59.7	51.7	53.6	41.8	31.8
87.5°	27.9	23.8	23.8	15.9	10.0
90°	81.3	51.8	48.1	33.3	18.5
92.5°	501.6	356.8	325.3	199.6	73.9
95°	1234.3	695.1	637.6	407.5	177.4
97.5°	1662.6	763.5	712.7	509.8	306.9
100°	1818.5	820.8	774.8	590.7	406.7
102.5°	1889.9	878.1	835.2	663.4	491.7
105°	1943.0	963.2	926.8	781.4	636.0
107.5°	1952.8	1088.9	1055.0	919.4	783.9
110°	1938.1	1159.1	1128.5	1006.1	883.7



TEST NUMBER: P935817

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1938.7	1244.2	1215.0	1098.4	981.7
115°	1956.5	1371.7	1344.9	1237.2	1129.6
117.5°	1992.8	1495.5	1471.1	1373.3	1275.6
120°	2022.4	1567.7	1544.6	1452.7	1360.6
122.5°	2065.0	1652.7	1629.5	1536.6	1443.8
125°	2122.3	1761.8	1740.7	1656.0	1571.4
127.5°	2179.5	1867.1	1845.8	1760.3	1674.9
130°	2221.4	1937.4	1914.3	1822.4	1730.4
132.5°	2255.3	1994.7	1971.7	1879.7	1787.7
135°	2292.4	2061.3	2040.3	1956.4	1872.7
137.5°	2347.8	2146.3	2125.6	2042.6	1959.6
140°	2381.7	2203.6	2184.6	2108.1	2031.7
142.5°	2410.0	2246.1	2228.4	2157.8	2087.2
145°	2447.0	2310.8	2295.4	2233.9	2172.2
147.5°	2501.2	2392.1	2377.1	2317.2	2257.2
150°	2529.6	2434.7	2421.2	2367.0	2312.7
152.5°	2548.1	2462.4	2452.1	2411.1	2370.0
155°	2588.8	2523.5	2515.8	2485.5	2455.1
157.5°	2629.4	2584.4	2577.0	2547.5	2517.9
160°	2647.9	2612.2	2606.4	2583.4	2560.4
162.5°	2667.6	2641.7	2637.4	2620.2	2602.9
165°	2696.0	2684.3	2680.3	2664.7	2649.1
167.5°	2718.2	2708.3	2706.4	2699.1	2691.7
170°	2736.7	2736.1	2734.2	2726.8	2719.4
172.5°	2737.8	2737.8	2737.5	2735.8	2734.2
175°	2749.0	2754.5	2754.5	2754.5	2754.5
177.5°	2750.2	2754.5	2754.5	2754.5	2754.5
180°	2754.5	2754.5	2754.5	2754.5	2754.5



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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	8.11	8.77	9.26	9.91	11.52	10.96	11.62	12.11	12.76	14.37
	3H	8.57	9.16	9.73	10.31	11.93	12.29	12.89	13.46	14.04	15.66
	4H	8.75	9.31	9.92	10.46	12.09	12.73	13.30	13.90	14.45	16.07
	6H	8.86	9.38	10.04	10.53	12.17	13.01	13.53	14.19	14.69	16.32
	8H	8.85	9.35	10.03	10.51	12.14	13.08	13.58	14.27	14.75	16.38
	12H	8.82	9.28	10.00	10.45	12.10	13.12	13.59	14.30	14.75	16.40
4H	2H	9.12	9.68	10.30	10.83	12.46	11.34	11.90	12.52	13.06	14.68
	3H	10.13	10.60	11.31	11.77	13.41	12.83	13.30	14.02	14.48	16.12
	4H	10.39	10.83	11.58	11.99	13.65	13.36	13.79	14.54	14.96	16.61
	6H	10.51	10.88	11.70	12.07	13.71	13.72	14.09	14.91	15.28	16.92
	8H	10.51	10.85	11.70	12.03	13.70	13.82	14.17	15.01	15.35	17.01
	12H	10.47	10.78	11.67	11.97	13.64	13.87	14.19	15.08	15.38	17.04
8H	4H	10.83	11.18	12.02	12.36	14.02	13.47	13.81	14.65	14.99	16.65
	6H	11.09	11.37	12.30	12.59	14.25	13.90	14.18	15.11	15.41	17.06
	8H	11.13	11.38	12.34	12.57	14.25	14.05	14.30	15.27	15.50	17.18
	12H	11.10	11.32	12.32	12.52	14.23	14.15	14.36	15.36	15.56	17.27
12H	4H	10.83	11.15	12.04	12.34	14.00	13.42	13.73	14.63	14.92	16.59
	6H	11.15	11.40	12.36	12.59	14.27	13.89	14.14	15.11	15.34	17.02
	8H	11.21	11.42	12.42	12.62	14.33	14.05	14.27	15.27	15.46	17.17