

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: P936165

Luminaire Tested: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

**Test Information**

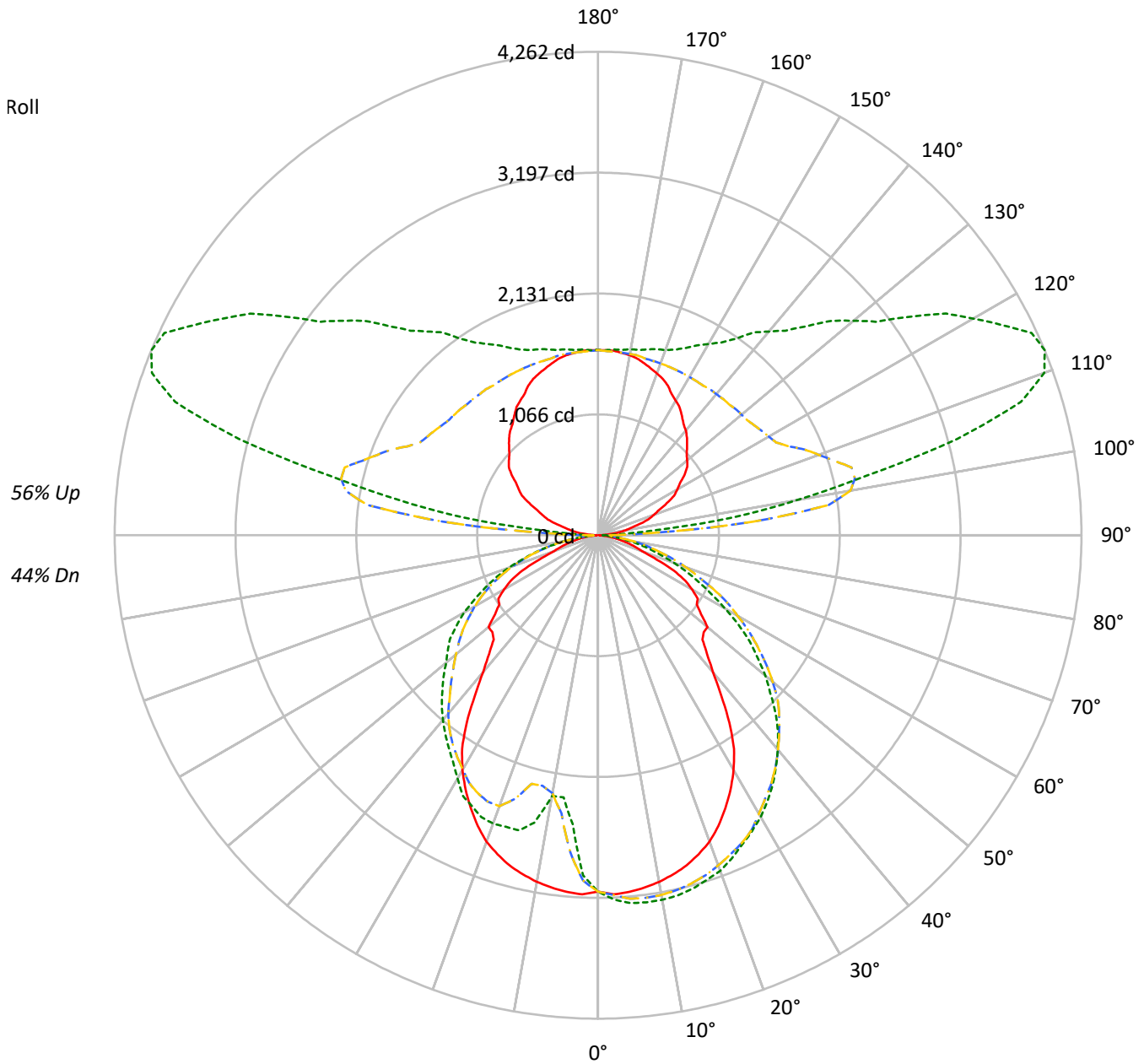
Test Method: LM-79-2019  
Report Number: P936165  
REPORT IS A COMBINATION OF REPORTS P933784 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 18735.1 lumens  
Efficiency: N/A  
Efficacy: 112.6 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°	14577	14577	14577	14577
5°	14686	14715	14686	11570
10°	14588	14495	14588	10363
15°	14429	14180	14429	11841
20°	14127	13808	14127	11866
25°	13510	13266	13510	11615
30°	12712	12816	12712	11062
35°	11332	12246	11332	10456
40°	9443	11575	9443	9997
45°	8437	10790	8437	9470
50°	8963	9853	8963	8941
55°	8433	8845	8433	8635
60°	8693	7512	8693	7909
65°	7882	6210	7882	6941
70°	5457	4949	5457	5819
75°	4785	3657	4785	4380
80°	3857	2418	3857	2633
85°	2212	1281	2212	1089

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 12931 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	283.6	1.5
10°-20°	805.2	4.3
20°-30°	1244.8	6.6
30°-40°	1486.0	7.9
40°-50°	1494.7	8.0
50°-60°	1300.5	6.9
60°-70°	922.1	4.9
70°-80°	487.9	2.6
80°-90°	127.7	0.7
90°-100°	795.8	4.2
100°-110°	2092.1	11.2
110°-120°	2169.2	11.6
120°-130°	1740.0	9.3
130°-140°	1365.3	7.3
140°-150°	1047.9	5.6
150°-160°	754.7	4.0
160°-170°	461.7	2.5
170°-180°	156.0	0.8
0°-30°	2333.6	12.5
0°-40°	3819.6	20.4
0°-60°	6614.8	35.3
0°-90°	8152.5	43.5
90°-120°	5057.0	27.0
90°-150°	9210.2	49.2
90°-180°	10583.0	56.5
0°-180°	18735.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3142	3142	3142	3142	3142	
5°	3157	3255	3157	2559	3157	299
15°	3014	3225	3014	2693	3014	848
25°	2654	3008	2654	2634	2654	1219
35°	2018	2684	2018	2292	2018	1249
45°	1302	2212	1302	1941	1302	1043
55°	1061	1632	1061	1593	1061	975
65°	737	984	737	1100	737	705
75°	279	467	279	559	279	294
85°	48	119	48	101	48	64
90°	11	42	11	42	11	11
95°	105	481	105	481	105	117
105°	377	3276	377	3276	377	400
115°	669	4218	669	4218	669	661
125°	931	3359	931	3359	931	827
135°	1110	2606	1110	2606	1110	859
145°	1287	2114	1287	2114	1287	806
155°	1455	1821	1455	1821	1455	669
165°	1570	1696	1570	1696	1570	443
175°	1632	1643	1632	1643	1632	155
180°	1632	1632	1632	1632	1632	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3168.6	3168.6	3186.4	3192.4	3192.4	3183.5	3174.5	3183.5	3210.2	3219.1	3216.2
5°	3156.7	3180.5	3213.2	3219.1	3225.0	3222.1	3216.2	3222.1	3251.8	3257.8	3260.8
7.5°	3132.9	3177.5	3219.1	3228.0	3237.0	3228.0	3225.0	3231.0	3260.8	3266.7	3266.7
10°	3103.2	3165.7	3213.2	3219.1	3228.0	3219.1	3219.1	3231.0	3260.8	3266.7	3269.7
12.5°	3061.6	3147.7	3192.4	3198.3	3210.2	3207.2	3204.3	3216.2	3245.8	3251.8	3251.8
15°	3014.1	3115.1	3156.7	3162.7	3183.5	3177.5	3177.5	3189.4	3222.1	3231.0	3228.0
17.5°	2948.6	3073.4	3121.0	3129.9	3144.8	3141.9	3144.8	3156.7	3186.4	3192.4	3195.3
20°	2874.3	3017.0	3073.4	3082.4	3097.2	3097.2	3097.2	3112.1	3141.9	3153.7	3153.7
22.5°	2773.2	2957.6	3017.0	3022.9	3040.8	3040.8	3046.7	3067.6	3094.3	3097.2	3097.2
25°	2654.4	2892.2	2942.7	2960.5	2978.3	2987.3	2996.2	3008.1	3017.0	3014.1	3017.0
27.5°	2529.5	2808.9	2874.3	2886.2	2910.0	2918.9	2930.8	2933.8	2936.8	2945.6	2939.7
30°	2389.9	2693.0	2791.1	2803.0	2841.7	2847.5	2835.7	2841.7	2856.5	2862.5	2868.4
32.5°	2232.3	2520.6	2704.9	2731.7	2767.4	2749.5	2746.5	2755.4	2779.2	2779.2	2785.2
35°	2018.2	2386.9	2624.6	2648.4	2675.1	2654.4	2666.3	2669.2	2684.1	2693.0	2690.1
37.5°	1783.5	2270.9	2541.5	2559.3	2580.1	2553.3	2571.1	2580.1	2592.0	2586.0	2586.0
40°	1575.4	2089.6	2443.3	2455.2	2473.0	2452.2	2470.0	2476.0	2482.0	2476.0	2473.0
42.5°	1420.8	1890.5	2339.3	2354.1	2342.3	2357.1	2363.1	2374.9	2366.1	2354.1	2354.1
45°	1301.9	1837.0	2226.3	2244.1	2226.3	2250.1	2259.1	2259.1	2232.3	2226.3	2223.3
47.5°	1263.3	1729.9	2113.4	2113.4	2104.5	2134.2	2149.0	2128.2	2101.5	2092.6	2092.6
50°	1260.3	1611.1	1958.8	1946.9	1988.6	2024.2	2009.4	1988.6	1967.7	1935.1	1935.1
52.5°	1144.3	1465.4	1759.7	1804.3	1869.6	1890.5	1866.7	1845.8	1810.2	1795.3	1783.5
55°	1061.2	1313.9	1578.4	1667.5	1735.9	1762.7	1718.0	1697.2	1643.7	1634.9	1628.9
57.5°	1043.3	1093.8	1411.9	1524.8	1608.1	1605.1	1578.4	1539.7	1495.1	1486.2	1483.3
60°	957.1	790.6	1233.6	1367.3	1453.5	1444.6	1420.8	1385.2	1343.5	1337.6	1331.7
62.5°	867.9	573.7	1031.4	1183.0	1304.9	1301.9	1281.1	1227.6	1197.9	1183.0	1171.1
65°	737.2	481.6	734.2	983.9	1159.3	1165.2	1120.6	1082.0	1049.2	1031.4	1028.5
67.5°	561.8	392.3	496.4	820.4	1019.5	1013.6	957.1	939.3	897.7	888.8	870.9
70°	416.1	261.6	344.8	665.8	882.8	867.9	823.3	802.6	763.9	743.1	731.2
72.5°	344.8	211.1	252.7	517.2	743.1	725.3	686.7	662.9	630.2	612.4	600.4
75°	279.4	222.9	193.2	383.5	603.4	591.5	555.9	532.1	505.3	481.6	484.5
77.5°	205.1	208.1	154.6	282.4	478.6	460.8	439.9	410.2	398.3	374.5	374.5
80°	154.6	163.5	115.9	193.2	344.8	344.8	327.0	306.2	285.4	273.5	273.5
82.5°	104.0	104.0	86.2	121.9	234.9	225.9	214.0	208.1	196.2	190.2	190.2
85°	47.5	59.5	53.5	74.3	127.8	133.8	133.8	127.8	124.8	118.9	121.9
87.5°	14.8	26.8	32.7	41.6	65.4	68.3	71.3	71.3	71.3	74.3	74.3
90°	11.0	19.8	28.5	30.7	48.2	71.6	83.3	74.0	55.5	41.6	41.6
92.5°	43.8	118.3	192.9	211.5	297.3	411.7	468.9	411.0	295.1	208.2	199.9
95°	105.2	241.5	377.8	411.9	731.4	1157.5	1370.6	1223.0	928.0	706.7	681.6
97.5°	181.9	302.1	422.5	452.5	985.4	1695.8	2051.0	1957.7	1771.3	1631.4	1583.7
100°	241.0	350.1	459.2	486.5	1077.8	1866.0	2260.2	2267.1	2280.7	2290.9	2234.0
102.5°	291.4	393.2	494.9	520.4	1120.1	1919.6	2319.4	2438.3	2675.8	2854.0	2805.4
105°	376.9	463.0	549.3	570.8	1151.5	1925.7	2312.8	2579.2	3111.9	3511.4	3485.3
107.5°	464.5	544.9	625.2	645.3	1157.3	1840.0	2181.3	2552.9	3296.0	3853.3	3859.6
110°	523.7	596.3	668.8	686.9	1148.6	1764.1	2071.8	2487.2	3317.9	3940.9	3968.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	581.8	650.9	720.0	737.3	1148.9	1697.7	1972.0	2397.1	3247.3	3885.0	3926.9
115°	669.4	733.2	797.0	813.0	1159.5	1621.6	1852.7	2262.2	3081.2	3695.5	3753.5
117.5°	756.0	813.9	871.9	886.4	1181.1	1574.0	1770.5	2140.1	2879.2	3433.6	3498.0
120°	806.4	860.9	915.5	929.1	1198.6	1557.9	1737.6	2075.3	2750.8	3257.3	3319.8
122.5°	855.6	910.7	965.7	979.5	1223.8	1549.6	1712.4	2016.5	2624.7	3080.8	3142.6
125°	931.3	981.4	1031.6	1044.1	1257.7	1542.6	1685.0	1943.3	2459.9	2847.5	2904.3
127.5°	992.7	1043.2	1093.9	1106.6	1291.7	1538.6	1662.0	1883.8	2327.4	2660.1	2708.1
130°	1025.5	1080.0	1134.6	1148.2	1316.6	1541.0	1653.2	1850.7	2245.6	2541.8	2586.2
132.5°	1059.5	1114.0	1168.6	1182.2	1336.7	1542.6	1645.6	1822.3	2175.8	2441.0	2480.7
135°	1109.8	1159.5	1209.2	1221.6	1358.6	1541.2	1632.4	1780.5	2076.6	2298.6	2332.8
137.5°	1161.4	1210.6	1259.7	1272.0	1391.4	1550.6	1630.3	1755.5	2005.7	2193.4	2221.4
140°	1204.1	1249.4	1294.6	1305.9	1411.5	1552.2	1622.6	1730.7	1946.9	2109.1	2135.2
142.5°	1236.9	1278.8	1320.7	1331.2	1428.3	1557.8	1622.6	1717.5	1907.4	2049.9	2072.4
145°	1287.3	1323.9	1360.4	1369.5	1450.3	1557.8	1611.6	1689.2	1844.6	1961.2	1978.2
147.5°	1337.7	1373.3	1408.9	1417.8	1482.4	1568.6	1611.6	1672.7	1794.9	1886.6	1900.7
150°	1370.6	1402.7	1434.9	1442.9	1499.1	1574.1	1611.6	1663.2	1766.4	1843.9	1855.3
152.5°	1404.6	1428.9	1453.3	1459.4	1510.2	1577.8	1611.6	1655.7	1743.8	1809.9	1818.5
155°	1455.0	1473.0	1491.0	1495.5	1534.2	1585.8	1611.6	1646.6	1716.8	1769.4	1775.1
157.5°	1492.2	1509.8	1527.3	1531.7	1558.3	1593.9	1611.6	1638.9	1693.5	1734.4	1738.4
160°	1517.4	1531.1	1544.7	1548.1	1569.3	1597.5	1611.6	1635.0	1681.8	1716.8	1719.1
162.5°	1542.6	1552.8	1563.1	1565.7	1580.9	1601.4	1611.6	1631.4	1670.8	1700.4	1702.6
165°	1570.0	1579.2	1588.5	1590.8	1597.7	1606.9	1611.6	1625.7	1654.0	1675.2	1677.5
167.5°	1595.2	1599.6	1604.0	1605.1	1610.9	1618.7	1622.6	1631.8	1650.3	1664.2	1665.2
170°	1611.6	1616.0	1620.4	1621.5	1621.9	1622.3	1622.6	1631.8	1650.3	1664.2	1664.2
172.5°	1620.4	1621.3	1622.3	1622.6	1622.6	1622.6	1622.6	1629.9	1644.4	1655.4	1654.5
175°	1632.4	1632.4	1632.4	1632.4	1629.2	1624.8	1622.6	1627.2	1636.5	1643.4	1643.4
177.5°	1632.4	1632.4	1632.4	1632.4	1629.9	1626.4	1624.8	1628.5	1635.7	1641.2	1640.2
180°	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3222.1	3213.2	3222.1	3216.2	3219.1	3210.2	3183.5	3174.5	3183.5	3192.4	3192.4
5°	3260.8	3254.8	3260.8	3260.8	3257.8	3251.8	3222.1	3216.2	3222.1	3225.0	3219.1
7.5°	3272.6	3263.7	3272.6	3266.7	3266.7	3260.8	3231.0	3225.0	3228.0	3237.0	3228.0
10°	3272.6	3263.7	3272.6	3269.7	3266.7	3260.8	3231.0	3219.1	3219.1	3228.0	3219.1
12.5°	3257.8	3251.8	3257.8	3251.8	3251.8	3245.8	3216.2	3204.3	3207.2	3210.2	3198.3
15°	3234.0	3225.0	3234.0	3228.0	3231.0	3222.1	3189.4	3177.5	3177.5	3183.5	3162.7
17.5°	3198.3	3186.4	3198.3	3195.3	3192.4	3186.4	3156.7	3144.8	3141.9	3144.8	3129.9
20°	3156.7	3147.7	3156.7	3153.7	3153.7	3141.9	3112.1	3097.2	3097.2	3097.2	3082.4
22.5°	3091.3	3082.4	3091.3	3097.2	3097.2	3094.3	3067.6	3046.7	3040.8	3040.8	3022.9
25°	3017.0	3008.1	3017.0	3017.0	3014.1	3017.0	3008.1	2996.2	2987.3	2978.3	2960.5
27.5°	2945.6	2939.7	2945.6	2939.7	2945.6	2936.8	2933.8	2930.8	2918.9	2910.0	2886.2
30°	2874.3	2868.4	2874.3	2868.4	2862.5	2856.5	2841.7	2835.7	2847.5	2841.7	2803.0
32.5°	2785.2	2779.2	2785.2	2785.2	2779.2	2779.2	2755.4	2746.5	2749.5	2767.4	2731.7
35°	2693.0	2684.1	2693.0	2690.1	2693.0	2684.1	2669.2	2666.3	2654.4	2675.1	2648.4
37.5°	2586.0	2577.1	2586.0	2586.0	2586.0	2592.0	2580.1	2571.1	2553.3	2580.1	2559.3
40°	2476.0	2464.2	2476.0	2473.0	2476.0	2482.0	2476.0	2470.0	2452.2	2473.0	2455.2
42.5°	2351.2	2348.2	2351.2	2354.1	2354.1	2366.1	2374.9	2363.1	2357.1	2342.3	2354.1
45°	2217.4	2211.5	2217.4	2223.3	2226.3	2232.3	2259.1	2259.1	2250.1	2226.3	2244.1
47.5°	2074.7	2059.9	2074.7	2092.6	2092.6	2101.5	2128.2	2149.0	2134.2	2104.5	2113.4
50°	1923.1	1926.1	1923.1	1935.1	1935.1	1967.7	1988.6	2009.4	2024.2	1988.6	1946.9
52.5°	1774.5	1771.5	1774.5	1783.5	1795.3	1810.2	1845.8	1866.7	1890.5	1869.6	1804.3
55°	1625.9	1631.9	1625.9	1628.9	1634.9	1643.7	1697.2	1718.0	1762.7	1735.9	1667.5
57.5°	1477.3	1468.3	1477.3	1483.3	1486.2	1495.1	1539.7	1578.4	1605.1	1608.1	1524.8
60°	1304.9	1293.0	1304.9	1331.7	1337.6	1343.5	1385.2	1420.8	1444.6	1453.5	1367.3
62.5°	1153.3	1132.5	1153.3	1171.1	1183.0	1197.9	1227.6	1281.1	1301.9	1304.9	1183.0
65°	992.7	983.9	992.7	1028.5	1031.4	1049.2	1082.0	1120.6	1165.2	1159.3	983.9
67.5°	847.1	847.1	847.1	870.9	888.8	897.7	939.3	957.1	1013.6	1019.5	820.4
70°	713.4	710.4	713.4	731.2	743.1	763.9	802.6	823.3	867.9	882.8	665.8
72.5°	585.6	582.6	585.6	600.4	612.4	630.2	662.9	686.7	725.3	743.1	517.2
75°	472.6	466.6	472.6	484.5	481.6	505.3	532.1	555.9	591.5	603.4	383.5
77.5°	362.7	362.7	362.7	374.5	374.5	398.3	410.2	439.9	460.8	478.6	282.4
80°	270.5	267.5	270.5	273.5	273.5	285.4	306.2	327.0	344.8	344.8	193.2
82.5°	190.2	184.3	190.2	190.2	190.2	196.2	208.1	214.0	225.9	234.9	121.9
85°	118.9	118.9	118.9	121.9	118.9	124.8	127.8	133.8	133.8	127.8	74.3
87.5°	77.3	74.3	77.3	74.3	74.3	71.3	71.3	71.3	68.3	65.4	41.6
90°	41.6	41.6	41.6	41.6	41.6	55.5	74.0	83.3	71.6	48.2	30.7
92.5°	166.8	133.7	166.8	199.9	208.2	295.1	411.0	468.9	411.7	297.3	211.5
95°	581.3	481.0	581.3	681.6	706.7	928.0	1223.0	1370.6	1157.5	731.4	411.9
97.5°	1392.7	1201.9	1392.7	1583.7	1631.4	1771.3	1957.7	2051.0	1695.8	985.4	452.5
100°	2006.7	1779.3	2006.7	2234.0	2290.9	2280.7	2267.1	2260.2	1866.0	1077.8	486.5
102.5°	2610.6	2415.9	2610.6	2805.4	2854.0	2675.8	2438.3	2319.4	1919.6	1120.1	520.4
105°	3380.6	3275.9	3380.6	3485.3	3511.4	3111.9	2579.2	2312.8	1925.7	1151.5	570.8
107.5°	3884.9	3910.2	3884.9	3859.6	3853.3	3296.0	2552.9	2181.3	1840.0	1157.3	645.3
110°	4077.2	4186.3	4077.2	3968.2	3940.9	3317.9	2487.2	2071.8	1764.1	1148.6	686.9





TEST NUMBER: P936165

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4094.4	4261.9	4094.4	3926.9	3885.0	3247.3	2397.1	1972.0	1697.7	1148.9	737.3
115°	3985.8	4218.0	3985.8	3753.5	3695.5	3081.2	2262.2	1852.7	1621.6	1159.5	813.0
117.5°	3755.6	4013.2	3755.6	3498.0	3433.6	2879.2	2140.1	1770.5	1574.0	1181.1	886.4
120°	3570.1	3820.3	3570.1	3319.8	3257.3	2750.8	2075.3	1737.6	1557.9	1198.6	929.1
122.5°	3389.5	3636.3	3389.5	3142.6	3080.8	2624.7	2016.5	1712.4	1549.6	1223.8	979.5
125°	3131.8	3359.2	3131.8	2904.3	2847.5	2459.9	1943.3	1685.0	1542.6	1257.7	1044.1
127.5°	2900.0	3091.8	2900.0	2708.1	2660.1	2327.4	1883.8	1662.0	1538.6	1291.7	1106.6
130°	2763.4	2940.6	2763.4	2586.2	2541.8	2245.6	1850.7	1653.2	1541.0	1316.6	1148.2
132.5°	2639.4	2798.2	2639.4	2480.7	2441.0	2175.8	1822.3	1645.6	1542.6	1336.7	1182.2
135°	2469.6	2606.4	2469.6	2332.8	2298.6	2076.6	1780.5	1632.4	1541.2	1358.6	1221.6
137.5°	2333.4	2445.4	2333.4	2221.4	2193.4	2005.7	1755.5	1630.3	1550.6	1391.4	1272.0
140°	2239.9	2344.6	2239.9	2135.2	2109.1	1946.9	1730.7	1622.6	1552.2	1411.5	1305.9
142.5°	2162.5	2252.6	2162.5	2072.4	2049.9	1907.4	1717.5	1622.6	1557.8	1428.3	1331.2
145°	2046.4	2114.5	2046.4	1978.2	1961.2	1844.6	1689.2	1611.6	1557.8	1450.3	1369.5
147.5°	1957.2	2013.7	1957.2	1900.7	1886.6	1794.9	1672.7	1611.6	1568.6	1482.4	1417.8
150°	1901.2	1946.9	1901.2	1855.3	1843.9	1766.4	1663.2	1611.6	1574.1	1499.1	1442.9
152.5°	1853.1	1887.7	1853.1	1818.5	1809.9	1743.8	1655.7	1611.6	1577.8	1510.2	1459.4
155°	1798.1	1820.9	1798.1	1775.1	1769.4	1716.8	1646.6	1611.6	1585.8	1534.2	1495.5
157.5°	1754.4	1770.5	1754.4	1738.4	1734.4	1693.5	1638.9	1611.6	1593.9	1558.3	1531.7
160°	1728.4	1737.6	1728.4	1719.1	1716.8	1681.8	1635.0	1611.6	1597.5	1569.3	1548.1
162.5°	1711.3	1720.1	1711.3	1702.6	1700.4	1670.8	1631.4	1611.6	1601.4	1580.9	1565.7
165°	1686.8	1696.0	1686.8	1677.5	1675.2	1654.0	1625.7	1611.6	1606.9	1597.7	1590.8
167.5°	1669.1	1673.0	1669.1	1665.2	1664.2	1650.3	1631.8	1622.6	1618.7	1610.9	1605.1
170°	1664.2	1664.2	1664.2	1664.2	1664.2	1650.3	1631.8	1622.6	1622.3	1621.9	1621.5
172.5°	1651.2	1647.8	1651.2	1654.5	1655.4	1644.4	1629.9	1622.6	1622.6	1622.6	1622.6
175°	1643.4	1643.4	1643.4	1643.4	1643.4	1636.5	1627.2	1622.6	1624.8	1629.2	1632.4
177.5°	1636.3	1632.4	1636.3	1640.2	1641.2	1635.7	1628.5	1624.8	1626.4	1629.9	1632.4
180°	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4



TEST NUMBER: P936165

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3186.4	3168.6	3168.6	3138.9	3127.0	3118.1	3103.2	3058.6	3046.7	3034.8	3052.7
5°	3213.2	3180.5	3156.7	3103.2	3058.6	3040.8	2984.3	2877.3	2806.0	2752.4	2722.7
7.5°	3219.1	3177.5	3132.9	3049.7	2942.7	2895.1	2722.7	2526.5	2473.0	2425.5	2395.7
10°	3213.2	3165.7	3103.2	2978.3	2725.7	2642.5	2470.0	2342.3	2309.6	2300.6	2309.6
12.5°	3192.4	3147.7	3061.6	2853.5	2499.8	2443.3	2342.3	2267.9	2262.0	2276.9	2357.1
15°	3156.7	3115.1	3014.1	2687.1	2374.9	2333.4	2262.0	2235.3	2267.9	2372.0	2612.8
17.5°	3121.0	3073.4	2948.6	2523.6	2279.8	2250.1	2199.6	2253.1	2437.4	2577.1	2657.3
20°	3073.4	3017.0	2874.3	2404.7	2211.5	2184.7	2161.0	2401.7	2541.5	2592.0	2636.6
22.5°	3017.0	2957.6	2773.2	2321.4	2140.2	2119.3	2134.2	2485.0	2541.5	2577.1	2615.8
25°	2942.7	2892.2	2654.4	2256.1	2083.7	2059.9	2116.4	2476.0	2508.7	2517.6	2594.9
27.5°	2874.3	2808.9	2529.5	2196.6	2015.3	2006.4	2131.2	2437.4	2461.2	2470.0	2553.3
30°	2791.1	2693.0	2389.9	2134.2	1943.9	1941.0	2134.2	2389.9	2383.9	2407.7	2490.9
32.5°	2704.9	2520.6	2232.3	2056.9	1875.6	1872.6	2113.4	2318.5	2312.6	2345.2	2407.7
35°	2624.6	2386.9	2018.2	1967.7	1789.4	1792.3	2062.9	2235.3	2238.3	2267.9	2306.6
37.5°	2541.5	2270.9	1783.5	1869.6	1706.2	1706.2	1994.4	2158.0	2152.0	2161.0	2214.5
40°	2443.3	2089.6	1575.4	1741.8	1628.9	1619.9	1911.3	2074.7	2053.9	2051.0	2125.3
42.5°	2339.3	1890.5	1420.8	1572.4	1539.7	1527.8	1810.2	1973.7	1935.1	1943.9	2039.1
45°	2226.3	1837.0	1301.9	1328.7	1447.5	1438.7	1700.2	1857.8	1831.0	1854.8	1952.9
47.5°	2113.4	1729.9	1263.3	1102.8	1349.5	1346.5	1578.4	1744.8	1729.9	1753.7	1857.8
50°	1958.8	1611.1	1260.3	945.2	1239.5	1251.4	1432.7	1634.9	1634.9	1655.6	1765.6
52.5°	1759.7	1465.4	1144.3	856.1	1111.7	1147.3	1304.9	1539.7	1545.6	1566.4	1664.6
55°	1578.4	1313.9	1061.2	787.7	960.1	1037.4	1180.1	1441.6	1453.5	1474.3	1563.5
57.5°	1411.9	1093.8	1043.3	707.5	820.4	894.7	1070.0	1346.5	1352.4	1370.3	1456.5
60°	1233.6	790.6	957.1	621.2	698.5	755.0	969.0	1233.6	1254.4	1266.2	1340.6
62.5°	1031.4	573.7	867.9	561.8	639.1	651.0	885.8	1126.5	1153.3	1162.3	1206.8
65°	734.2	481.6	737.2	511.3	576.6	579.6	796.6	1016.5	1040.3	1055.2	1087.9
67.5°	496.4	392.3	561.8	463.7	529.1	532.1	710.4	888.8	921.4	933.4	954.2
70°	344.8	261.6	416.1	413.2	475.6	481.6	618.2	772.8	802.6	811.5	823.3
72.5°	252.7	211.1	344.8	371.5	419.1	425.1	523.1	642.0	671.7	680.7	686.7
75°	193.2	222.9	279.4	324.0	356.7	359.7	428.0	523.1	543.9	549.9	552.9
77.5°	154.6	208.1	205.1	261.6	291.3	285.4	335.9	404.3	422.1	422.1	422.1
80°	115.9	163.5	154.6	187.3	214.0	208.1	240.7	288.3	294.2	300.2	297.2
82.5°	86.2	104.0	104.0	118.9	142.6	136.8	160.6	187.3	187.3	187.3	193.2
85°	53.5	59.5	47.5	62.4	80.3	77.3	89.1	101.1	104.0	104.0	98.1
87.5°	32.7	26.8	14.8	23.8	35.7	35.7	41.6	44.6	41.6	41.6	41.6
90°	28.5	19.8	11.0	19.8	28.5	30.7	48.2	71.6	83.3	74.0	55.5
92.5°	192.9	118.3	43.8	118.3	192.9	211.5	297.3	411.7	468.9	411.0	295.1
95°	377.8	241.5	105.2	241.5	377.8	411.9	731.4	1157.5	1370.6	1223.0	928.0
97.5°	422.5	302.1	181.9	302.1	422.5	452.5	985.4	1695.8	2051.0	1957.7	1771.3
100°	459.2	350.1	241.0	350.1	459.2	486.5	1077.8	1866.0	2260.2	2267.1	2280.7
102.5°	494.9	393.2	291.4	393.2	494.9	520.4	1120.1	1919.6	2319.4	2438.3	2675.8
105°	549.3	463.0	376.9	463.0	549.3	570.8	1151.5	1925.7	2312.8	2579.2	3111.9
107.5°	625.2	544.9	464.5	544.9	625.2	645.3	1157.3	1840.0	2181.3	2552.9	3296.0
110°	668.8	596.3	523.7	596.3	668.8	686.9	1148.6	1764.1	2071.8	2487.2	3317.9



TEST NUMBER: P936165

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	720.0	650.9	581.8	650.9	720.0	737.3	1148.9	1697.7	1972.0	2397.1	3247.3
115°	797.0	733.2	669.4	733.2	797.0	813.0	1159.5	1621.6	1852.7	2262.2	3081.2
117.5°	871.9	813.9	756.0	813.9	871.9	886.4	1181.1	1574.0	1770.5	2140.1	2879.2
120°	915.5	860.9	806.4	860.9	915.5	929.1	1198.6	1557.9	1737.6	2075.3	2750.8
122.5°	965.7	910.7	855.6	910.7	965.7	979.5	1223.8	1549.6	1712.4	2016.5	2624.7
125°	1031.6	981.4	931.3	981.4	1031.6	1044.1	1257.7	1542.6	1685.0	1943.3	2459.9
127.5°	1093.9	1043.2	992.7	1043.2	1093.9	1106.6	1291.7	1538.6	1662.0	1883.8	2327.4
130°	1134.6	1080.0	1025.5	1080.0	1134.6	1148.2	1316.6	1541.0	1653.2	1850.7	2245.6
132.5°	1168.6	1114.0	1059.5	1114.0	1168.6	1182.2	1336.7	1542.6	1645.6	1822.3	2175.8
135°	1209.2	1159.5	1109.8	1159.5	1209.2	1221.6	1358.6	1541.2	1632.4	1780.5	2076.6
137.5°	1259.7	1210.6	1161.4	1210.6	1259.7	1272.0	1391.4	1550.6	1630.3	1755.5	2005.7
140°	1294.6	1249.4	1204.1	1249.4	1294.6	1305.9	1411.5	1552.2	1622.6	1730.7	1946.9
142.5°	1320.7	1278.8	1236.9	1278.8	1320.7	1331.2	1428.3	1557.8	1622.6	1717.5	1907.4
145°	1360.4	1323.9	1287.3	1323.9	1360.4	1369.5	1450.3	1557.8	1611.6	1689.2	1844.6
147.5°	1408.9	1373.3	1337.7	1373.3	1408.9	1417.8	1482.4	1568.6	1611.6	1672.7	1794.9
150°	1434.9	1402.7	1370.6	1402.7	1434.9	1442.9	1499.1	1574.1	1611.6	1663.2	1766.4
152.5°	1453.3	1428.9	1404.6	1428.9	1453.3	1459.4	1510.2	1577.8	1611.6	1655.7	1743.8
155°	1491.0	1473.0	1455.0	1473.0	1491.0	1495.5	1534.2	1585.8	1611.6	1646.6	1716.8
157.5°	1527.3	1509.8	1492.2	1509.8	1527.3	1531.7	1558.3	1593.9	1611.6	1638.9	1693.5
160°	1544.7	1531.1	1517.4	1531.1	1544.7	1548.1	1569.3	1597.5	1611.6	1635.0	1681.8
162.5°	1563.1	1552.8	1542.6	1552.8	1563.1	1565.7	1580.9	1601.4	1611.6	1631.4	1670.8
165°	1588.5	1579.2	1570.0	1579.2	1588.5	1590.8	1597.7	1606.9	1611.6	1625.7	1654.0
167.5°	1604.0	1599.6	1595.2	1599.6	1604.0	1605.1	1610.9	1618.7	1622.6	1631.8	1650.3
170°	1620.4	1616.0	1611.6	1616.0	1620.4	1621.5	1621.9	1622.3	1622.6	1631.8	1650.3
172.5°	1622.3	1621.3	1620.4	1621.3	1622.3	1622.6	1622.6	1622.6	1622.6	1629.9	1644.4
175°	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1629.2	1624.8	1622.6	1627.2	1636.5
177.5°	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1629.9	1626.4	1624.8	1628.5	1635.7
180°	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4



TEST NUMBER: P936165

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3031.9	3022.9	3034.8	3002.1	3034.8	3022.9	3031.9	3052.7	3034.8	3046.7	3058.6
5°	2660.3	2645.4	2597.9	2559.3	2597.9	2645.4	2660.3	2722.7	2752.4	2806.0	2877.3
7.5°	2377.9	2366.1	2354.1	2330.4	2354.1	2366.1	2377.9	2395.7	2425.5	2473.0	2526.5
10°	2315.6	2318.5	2336.3	2333.4	2336.3	2318.5	2315.6	2309.6	2300.6	2309.6	2342.3
12.5°	2476.0	2502.8	2600.8	2594.9	2600.8	2502.8	2476.0	2357.1	2276.9	2262.0	2267.9
15°	2660.3	2669.2	2690.1	2693.0	2690.1	2669.2	2660.3	2612.8	2372.0	2267.9	2235.3
17.5°	2678.1	2681.1	2695.9	2695.9	2695.9	2681.1	2678.1	2657.3	2577.1	2437.4	2253.1
20°	2663.3	2669.2	2698.9	2704.9	2698.9	2669.2	2663.3	2636.6	2592.0	2541.5	2401.7
22.5°	2657.3	2669.2	2693.0	2690.1	2693.0	2669.2	2657.3	2615.8	2577.1	2541.5	2485.0
25°	2627.6	2627.6	2630.6	2633.6	2630.6	2627.6	2627.6	2594.9	2517.6	2508.7	2476.0
27.5°	2565.2	2571.1	2589.0	2586.0	2589.0	2571.1	2565.2	2553.3	2470.0	2461.2	2437.4
30°	2508.7	2502.8	2487.9	2476.0	2487.9	2502.8	2508.7	2490.9	2407.7	2383.9	2389.9
32.5°	2413.6	2398.7	2383.9	2374.9	2383.9	2398.7	2413.6	2407.7	2345.2	2312.6	2318.5
35°	2300.6	2303.6	2300.6	2291.8	2300.6	2303.6	2300.6	2306.6	2267.9	2238.3	2235.3
37.5°	2220.4	2226.3	2223.3	2211.5	2223.3	2226.3	2220.4	2214.5	2161.0	2152.0	2158.0
40°	2137.2	2140.2	2137.2	2128.2	2137.2	2140.2	2137.2	2125.3	2051.0	2053.9	2074.7
42.5°	2056.9	2053.9	2045.0	2039.1	2045.0	2053.9	2056.9	2039.1	1943.9	1935.1	1973.7
45°	1964.8	1967.7	1949.9	1941.0	1949.9	1967.7	1964.8	1952.9	1854.8	1831.0	1857.8
47.5°	1872.6	1872.6	1857.8	1848.8	1857.8	1872.6	1872.6	1857.8	1753.7	1729.9	1744.8
50°	1774.5	1771.5	1750.7	1747.8	1750.7	1771.5	1774.5	1765.6	1655.6	1634.9	1634.9
52.5°	1661.6	1661.6	1664.6	1670.5	1664.6	1661.6	1661.6	1664.6	1566.4	1545.6	1539.7
55°	1563.5	1566.4	1587.3	1593.2	1587.3	1566.4	1563.5	1563.5	1474.3	1453.5	1441.6
57.5°	1462.5	1462.5	1477.3	1477.3	1477.3	1462.5	1462.5	1456.5	1370.3	1352.4	1346.5
60°	1346.5	1352.4	1364.4	1361.4	1364.4	1352.4	1346.5	1340.6	1266.2	1254.4	1233.6
62.5°	1224.6	1230.6	1233.6	1227.6	1233.6	1230.6	1224.6	1206.8	1162.3	1153.3	1126.5
65°	1096.8	1102.8	1105.8	1099.8	1105.8	1102.8	1096.8	1087.9	1055.2	1040.3	1016.5
67.5°	966.0	963.1	960.1	972.0	960.1	963.1	966.0	954.2	933.4	921.4	888.8
70°	832.3	832.3	829.3	835.3	829.3	832.3	832.3	823.3	811.5	802.6	772.8
72.5°	689.6	686.7	698.5	689.6	698.5	686.7	689.6	686.7	680.7	671.7	642.0
75°	549.9	555.9	549.9	558.8	549.9	555.9	549.9	552.9	549.9	543.9	523.1
77.5°	419.1	425.1	419.1	419.1	419.1	425.1	419.1	422.1	422.1	422.1	404.3
80°	297.2	294.2	294.2	291.3	294.2	294.2	297.2	297.2	300.2	294.2	288.3
82.5°	190.2	187.3	187.3	193.2	187.3	187.3	190.2	193.2	187.3	187.3	187.3
85°	104.0	107.0	101.1	101.1	101.1	107.0	104.0	98.1	104.0	104.0	101.1
87.5°	38.6	35.7	35.7	35.7	35.7	35.7	38.6	41.6	41.6	41.6	44.6
90°	41.6	41.6	41.6	41.6	41.6	41.6	41.6	55.5	74.0	83.3	71.6
92.5°	208.2	199.9	166.8	133.7	166.8	199.9	208.2	295.1	411.0	468.9	411.7
95°	706.7	681.6	581.3	481.0	581.3	681.6	706.7	928.0	1223.0	1370.6	1157.5
97.5°	1631.4	1583.7	1392.7	1201.9	1392.7	1583.7	1631.4	1771.3	1957.7	2051.0	1695.8
100°	2290.9	2234.0	2006.7	1779.3	2006.7	2234.0	2290.9	2280.7	2267.1	2260.2	1866.0
102.5°	2854.0	2805.4	2610.6	2415.9	2610.6	2805.4	2854.0	2675.8	2438.3	2319.4	1919.6
105°	3511.4	3485.3	3380.6	3275.9	3380.6	3485.3	3511.4	3111.9	2579.2	2312.8	1925.7
107.5°	3853.3	3859.6	3884.9	3910.2	3884.9	3859.6	3853.3	3296.0	2552.9	2181.3	1840.0
110°	3940.9	3968.2	4077.2	4186.3	4077.2	3968.2	3940.9	3317.9	2487.2	2071.8	1764.1



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	3885.0	3926.9	4094.4	4261.9	4094.4	3926.9	3885.0	3247.3	2397.1	1972.0	1697.7
115°	3695.5	3753.5	3985.8	4218.0	3985.8	3753.5	3695.5	3081.2	2262.2	1852.7	1621.6
117.5°	3433.6	3498.0	3755.6	4013.2	3755.6	3498.0	3433.6	2879.2	2140.1	1770.5	1574.0
120°	3257.3	3319.8	3570.1	3820.3	3570.1	3319.8	3257.3	2750.8	2075.3	1737.6	1557.9
122.5°	3080.8	3142.6	3389.5	3636.3	3389.5	3142.6	3080.8	2624.7	2016.5	1712.4	1549.6
125°	2847.5	2904.3	3131.8	3359.2	3131.8	2904.3	2847.5	2459.9	1943.3	1685.0	1542.6
127.5°	2660.1	2708.1	2900.0	3091.8	2900.0	2708.1	2660.1	2327.4	1883.8	1662.0	1538.6
130°	2541.8	2586.2	2763.4	2940.6	2763.4	2586.2	2541.8	2245.6	1850.7	1653.2	1541.0
132.5°	2441.0	2480.7	2639.4	2798.2	2639.4	2480.7	2441.0	2175.8	1822.3	1645.6	1542.6
135°	2298.6	2332.8	2469.6	2606.4	2469.6	2332.8	2298.6	2076.6	1780.5	1632.4	1541.2
137.5°	2193.4	2221.4	2333.4	2445.4	2333.4	2221.4	2193.4	2005.7	1755.5	1630.3	1550.6
140°	2109.1	2135.2	2239.9	2344.6	2239.9	2135.2	2109.1	1946.9	1730.7	1622.6	1552.2
142.5°	2049.9	2072.4	2162.5	2252.6	2162.5	2072.4	2049.9	1907.4	1717.5	1622.6	1557.8
145°	1961.2	1978.2	2046.4	2114.5	2046.4	1978.2	1961.2	1844.6	1689.2	1611.6	1557.8
147.5°	1886.6	1900.7	1957.2	2013.7	1957.2	1900.7	1886.6	1794.9	1672.7	1611.6	1568.6
150°	1843.9	1855.3	1901.2	1946.9	1901.2	1855.3	1843.9	1766.4	1663.2	1611.6	1574.1
152.5°	1809.9	1818.5	1853.1	1887.7	1853.1	1818.5	1809.9	1743.8	1655.7	1611.6	1577.8
155°	1769.4	1775.1	1798.1	1820.9	1798.1	1775.1	1769.4	1716.8	1646.6	1611.6	1585.8
157.5°	1734.4	1738.4	1754.4	1770.5	1754.4	1738.4	1734.4	1693.5	1638.9	1611.6	1593.9
160°	1716.8	1719.1	1728.4	1737.6	1728.4	1719.1	1716.8	1681.8	1635.0	1611.6	1597.5
162.5°	1700.4	1702.6	1711.3	1720.1	1711.3	1702.6	1700.4	1670.8	1631.4	1611.6	1601.4
165°	1675.2	1677.5	1686.8	1696.0	1686.8	1677.5	1675.2	1654.0	1625.7	1611.6	1606.9
167.5°	1664.2	1665.2	1669.1	1673.0	1669.1	1665.2	1664.2	1650.3	1631.8	1622.6	1618.7
170°	1664.2	1664.2	1664.2	1664.2	1664.2	1664.2	1664.2	1650.3	1631.8	1622.6	1622.3
172.5°	1655.4	1654.5	1651.2	1647.8	1651.2	1654.5	1655.4	1644.4	1629.9	1622.6	1622.6
175°	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1643.4	1636.5	1627.2	1622.6	1624.8
177.5°	1641.2	1640.2	1636.3	1632.4	1636.3	1640.2	1641.2	1635.7	1628.5	1624.8	1626.4
180°	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4	1632.4



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	3141.9	3141.9	3141.9	3141.9	3141.9
2.5°	3103.2	3118.1	3127.0	3138.9	3168.6
5°	2984.3	3040.8	3058.6	3103.2	3156.7
7.5°	2722.7	2895.1	2942.7	3049.7	3132.9
10°	2470.0	2642.5	2725.7	2978.3	3103.2
12.5°	2342.3	2443.3	2499.8	2853.5	3061.6
15°	2262.0	2333.4	2374.9	2687.1	3014.1
17.5°	2199.6	2250.1	2279.8	2523.6	2948.6
20°	2161.0	2184.7	2211.5	2404.7	2874.3
22.5°	2134.2	2119.3	2140.2	2321.4	2773.2
25°	2116.4	2059.9	2083.7	2256.1	2654.4
27.5°	2131.2	2006.4	2015.3	2196.6	2529.5
30°	2134.2	1941.0	1943.9	2134.2	2389.9
32.5°	2113.4	1872.6	1875.6	2056.9	2232.3
35°	2062.9	1792.3	1789.4	1967.7	2018.2
37.5°	1994.4	1706.2	1706.2	1869.6	1783.5
40°	1911.3	1619.9	1628.9	1741.8	1575.4
42.5°	1810.2	1527.8	1539.7	1572.4	1420.8
45°	1700.2	1438.7	1447.5	1328.7	1301.9
47.5°	1578.4	1346.5	1349.5	1102.8	1263.3
50°	1432.7	1251.4	1239.5	945.2	1260.3
52.5°	1304.9	1147.3	1111.7	856.1	1144.3
55°	1180.1	1037.4	960.1	787.7	1061.2
57.5°	1070.0	894.7	820.4	707.5	1043.3
60°	969.0	755.0	698.5	621.2	957.1
62.5°	885.8	651.0	639.1	561.8	867.9
65°	796.6	579.6	576.6	511.3	737.2
67.5°	710.4	532.1	529.1	463.7	561.8
70°	618.2	481.6	475.6	413.2	416.1
72.5°	523.1	425.1	419.1	371.5	344.8
75°	428.0	359.7	356.7	324.0	279.4
77.5°	335.9	285.4	291.3	261.6	205.1
80°	240.7	208.1	214.0	187.3	154.6
82.5°	160.6	136.8	142.6	118.9	104.0
85°	89.1	77.3	80.3	62.4	47.5
87.5°	41.6	35.7	35.7	23.8	14.8
90°	48.2	30.7	28.5	19.8	11.0
92.5°	297.3	211.5	192.9	118.3	43.8
95°	731.4	411.9	377.8	241.5	105.2
97.5°	985.4	452.5	422.5	302.1	181.9
100°	1077.8	486.5	459.2	350.1	241.0
102.5°	1120.1	520.4	494.9	393.2	291.4
105°	1151.5	570.8	549.3	463.0	376.9
107.5°	1157.3	645.3	625.2	544.9	464.5
110°	1148.6	686.9	668.8	596.3	523.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1148.9	737.3	720.0	650.9	581.8
115°	1159.5	813.0	797.0	733.2	669.4
117.5°	1181.1	886.4	871.9	813.9	756.0
120°	1198.6	929.1	915.5	860.9	806.4
122.5°	1223.8	979.5	965.7	910.7	855.6
125°	1257.7	1044.1	1031.6	981.4	931.3
127.5°	1291.7	1106.6	1093.9	1043.2	992.7
130°	1316.6	1148.2	1134.6	1080.0	1025.5
132.5°	1336.7	1182.2	1168.6	1114.0	1059.5
135°	1358.6	1221.6	1209.2	1159.5	1109.8
137.5°	1391.4	1272.0	1259.7	1210.6	1161.4
140°	1411.5	1305.9	1294.6	1249.4	1204.1
142.5°	1428.3	1331.2	1320.7	1278.8	1236.9
145°	1450.3	1369.5	1360.4	1323.9	1287.3
147.5°	1482.4	1417.8	1408.9	1373.3	1337.7
150°	1499.1	1442.9	1434.9	1402.7	1370.6
152.5°	1510.2	1459.4	1453.3	1428.9	1404.6
155°	1534.2	1495.5	1491.0	1473.0	1455.0
157.5°	1558.3	1531.7	1527.3	1509.8	1492.2
160°	1569.3	1548.1	1544.7	1531.1	1517.4
162.5°	1580.9	1565.7	1563.1	1552.8	1542.6
165°	1597.7	1590.8	1588.5	1579.2	1570.0
167.5°	1610.9	1605.1	1604.0	1599.6	1595.2
170°	1621.9	1621.5	1620.4	1616.0	1611.6
172.5°	1622.6	1622.6	1622.3	1621.3	1620.4
175°	1629.2	1632.4	1632.4	1632.4	1632.4
177.5°	1629.9	1632.4	1632.4	1632.4	1632.4
180°	1632.4	1632.4	1632.4	1632.4	1632.4



TEST NUMBER: P936165  
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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	13.49	14.29	14.50	15.31	16.67	16.32	17.13	17.33	18.15	19.51
	3H	13.96	14.68	14.98	15.71	17.09	17.67	18.39	18.69	19.42	20.80
	4H	14.15	14.83	15.18	15.86	17.25	18.11	18.79	19.14	19.83	21.22
	6H	14.26	14.89	15.31	15.93	17.33	18.39	19.02	19.44	20.06	21.46
	8H	14.26	14.86	15.31	15.91	17.31	18.47	19.07	19.52	20.12	21.52
	12H	14.23	14.80	15.29	15.85	17.27	18.51	19.08	19.56	20.12	21.54
4H	2H	14.51	15.20	15.55	16.23	17.62	16.73	17.41	17.77	18.44	19.83
	3H	15.54	16.11	16.58	17.17	18.57	18.23	18.80	19.28	19.86	21.26
	4H	15.81	16.33	16.86	17.38	18.81	18.76	19.28	19.81	20.33	21.75
	6H	15.93	16.38	17.00	17.45	18.87	19.12	19.57	20.19	20.64	22.06
	8H	15.94	16.35	17.00	17.42	18.86	19.23	19.65	20.29	20.71	22.15
	12H	15.90	16.28	16.98	17.36	18.80	19.28	19.66	20.37	20.74	22.18
8H	4H	16.26	16.68	17.33	17.75	19.18	18.88	19.29	19.94	20.36	21.80
	6H	16.52	16.86	17.61	17.97	19.41	19.31	19.66	20.40	20.77	22.20
	8H	16.56	16.86	17.66	17.96	19.41	19.46	19.77	20.56	20.86	22.31
	12H	16.54	16.81	17.64	17.90	19.39	19.56	19.83	20.66	20.92	22.41
12H	4H	16.26	16.64	17.35	17.72	19.16	18.84	19.22	19.92	20.30	21.74
	6H	16.58	16.88	17.68	17.98	19.43	19.31	19.61	20.40	20.71	22.16
	8H	16.64	16.91	17.74	18.00	19.49	19.47	19.74	20.57	20.82	22.31