

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: P936167

Luminaire Tested: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

**Test Information**

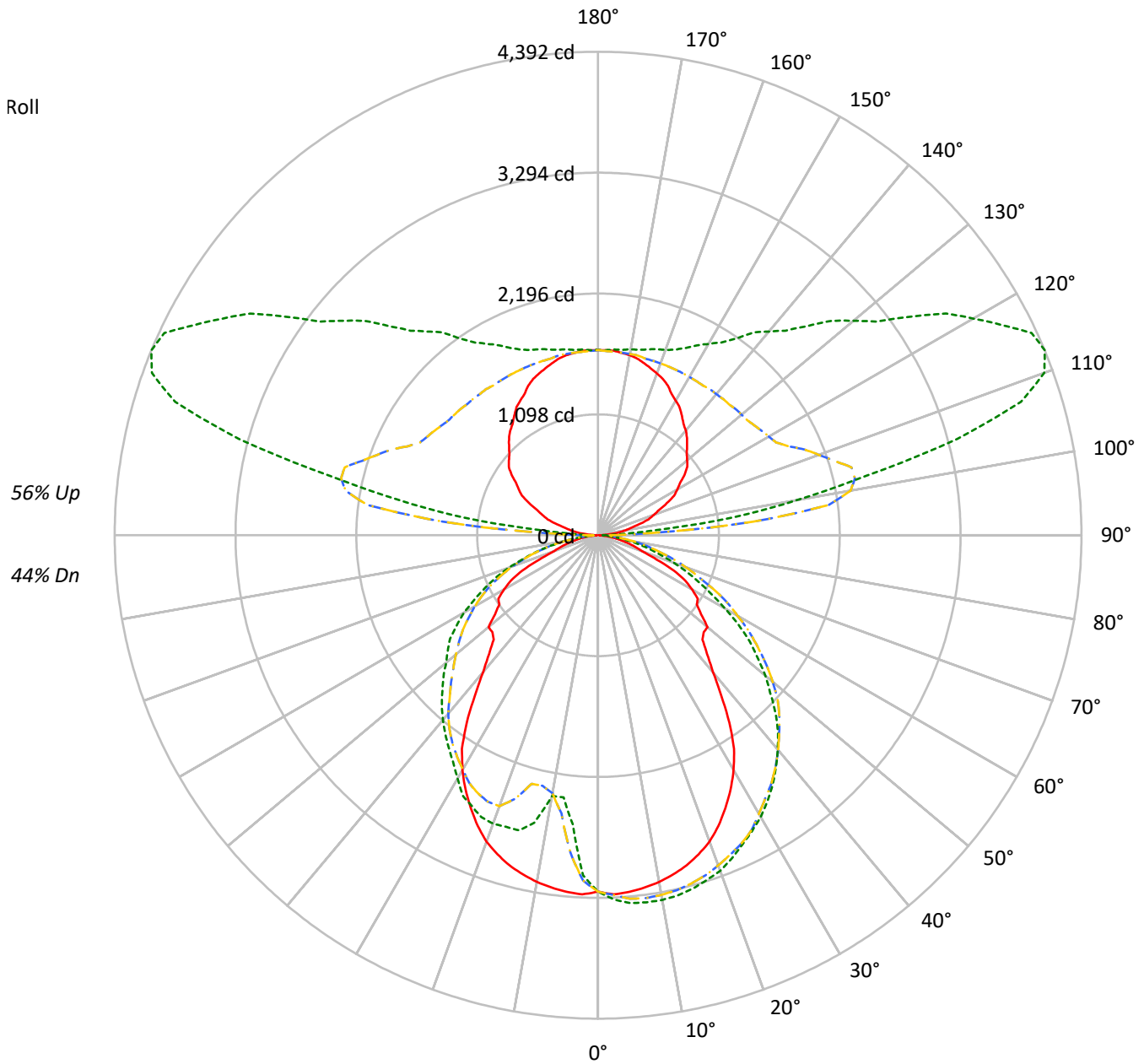
Test Method: LM-79-2019  
Report Number: P936167  
REPORT IS A COMBINATION OF REPORTS P933784 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 19308.0 lumens  
Efficiency: N/A  
Efficacy: 116.0 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°	15023	15023	15023	15023
5°	15135	15165	15135	11924
10°	15034	14938	15034	10680
15°	14870	14614	14870	12203
20°	14559	14231	14559	12229
25°	13923	13672	13923	11970
30°	13100	13207	13100	11401
35°	11679	12620	11679	10775
40°	9731	11929	9731	10303
45°	8695	11120	8695	9759
50°	9237	10155	9237	9215
55°	8691	9115	8691	8899
60°	8959	7742	8959	8151
65°	8122	6400	8122	7153
70°	5625	5100	5625	5996
75°	4931	3770	4931	4514
80°	3975	2492	3975	2714
85°	2282	1321	2282	1123

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 13326 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	292.3	1.5
10°-20°	829.9	4.3
20°-30°	1282.8	6.6
30°-40°	1531.4	7.9
40°-50°	1540.4	8.0
50°-60°	1340.3	6.9
60°-70°	950.3	4.9
70°-80°	502.8	2.6
80°-90°	131.6	0.7
90°-100°	820.1	4.2
100°-110°	2156.0	11.2
110°-120°	2235.6	11.6
120°-130°	1793.2	9.3
130°-140°	1407.0	7.3
140°-150°	1079.9	5.6
150°-160°	777.7	4.0
160°-170°	475.9	2.5
170°-180°	160.8	0.8
0°-30°	2405.0	12.5
0°-40°	3936.4	20.4
0°-60°	6817.1	35.3
0°-90°	8401.8	43.5
90°-120°	5211.7	27.0
90°-150°	9491.8	49.2
90°-180°	10906.0	56.5
0°-180°	19308.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	3238	3238	3238	3238	3238	
5°	3253	3354	3253	2638	3253	309
15°	3106	3324	3106	2775	3106	874
25°	2736	3100	2736	2714	2736	1256
35°	2080	2766	2080	2362	2080	1287
45°	1342	2279	1342	2000	1342	1075
55°	1094	1682	1094	1642	1094	1005
65°	760	1014	760	1133	760	726
75°	288	481	288	576	288	303
85°	49	123	49	104	49	66
90°	11	43	11	43	11	11
95°	108	496	108	496	108	120
105°	388	3376	388	3376	388	412
115°	690	4347	690	4347	690	681
125°	960	3462	960	3462	960	852
135°	1144	2686	1144	2686	1144	885
145°	1327	2179	1327	2179	1327	831
155°	1500	1877	1500	1877	1500	689
165°	1618	1748	1618	1748	1618	457
175°	1682	1694	1682	1694	1682	160
180°	1682	1682	1682	1682	1682	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9
2.5°	3265.5	3265.5	3283.8	3290.0	3290.0	3280.8	3271.6	3280.8	3308.4	3317.6	3314.5
5°	3253.2	3277.8	3311.4	3317.6	3323.7	3320.7	3314.5	3320.7	3351.3	3357.4	3360.5
7.5°	3228.7	3274.7	3317.6	3326.7	3336.0	3326.7	3323.7	3329.8	3360.5	3366.6	3366.6
10°	3198.1	3262.5	3311.4	3317.6	3326.7	3317.6	3317.6	3329.8	3360.5	3366.6	3369.6
12.5°	3155.2	3244.0	3290.0	3296.1	3308.4	3305.3	3302.3	3314.5	3345.1	3351.3	3351.3
15°	3106.2	3210.3	3253.2	3259.4	3280.8	3274.7	3274.7	3286.9	3320.7	3329.8	3326.7
17.5°	3038.8	3167.4	3216.5	3225.6	3241.0	3237.9	3241.0	3253.2	3283.8	3290.0	3293.1
20°	2962.2	3109.2	3167.4	3176.7	3192.0	3192.0	3192.0	3207.3	3237.9	3250.2	3250.2
22.5°	2858.0	3048.0	3109.2	3115.4	3133.8	3133.8	3139.9	3161.4	3188.9	3192.0	3192.0
25°	2735.6	2980.6	3032.7	3051.0	3069.4	3078.6	3087.9	3100.1	3109.2	3106.2	3109.2
27.5°	2606.9	2894.8	2962.2	2974.4	2999.0	3008.2	3020.4	3023.5	3026.6	3035.7	3029.6
30°	2462.9	2775.4	2876.4	2888.7	2928.6	2934.6	2922.4	2928.6	2943.9	2950.0	2956.1
32.5°	2300.6	2597.7	2787.6	2815.2	2852.0	2833.6	2830.5	2839.7	2864.2	2864.2	2870.4
35°	2080.0	2459.9	2704.9	2729.4	2756.9	2735.6	2747.8	2750.9	2766.2	2775.4	2772.3
37.5°	1838.0	2340.4	2619.2	2637.5	2659.0	2631.4	2649.8	2659.0	2671.2	2665.1	2665.1
40°	1623.6	2153.5	2518.1	2530.3	2548.7	2527.2	2545.6	2551.7	2557.9	2551.7	2548.7
42.5°	1464.3	1948.3	2410.8	2426.1	2413.9	2429.2	2435.3	2447.6	2438.4	2426.1	2426.1
45°	1341.7	1893.1	2294.4	2312.8	2294.4	2318.9	2328.2	2328.2	2300.6	2294.4	2291.3
47.5°	1301.9	1782.8	2178.0	2178.0	2168.9	2199.5	2214.7	2193.3	2165.8	2156.5	2156.5
50°	1298.8	1660.3	2018.7	2006.5	2049.4	2086.1	2070.8	2049.4	2027.9	1994.3	1994.3
52.5°	1179.3	1510.2	1813.5	1859.5	1926.8	1948.3	1923.7	1902.3	1865.5	1850.2	1838.0
55°	1093.6	1354.0	1626.7	1718.5	1789.0	1816.6	1770.6	1749.1	1694.0	1684.9	1678.7
57.5°	1075.2	1127.3	1455.0	1571.5	1657.3	1654.2	1626.7	1586.8	1540.9	1531.6	1528.6
60°	986.4	814.8	1271.3	1409.2	1498.0	1488.8	1464.3	1427.5	1384.6	1378.5	1372.4
62.5°	894.5	591.3	1062.9	1219.2	1344.8	1341.7	1320.3	1265.1	1234.5	1219.2	1206.9
65°	759.7	496.3	756.6	1014.0	1194.7	1200.8	1154.9	1115.1	1081.3	1062.9	1059.9
67.5°	578.9	404.3	511.6	845.5	1050.7	1044.6	986.4	968.0	925.2	915.9	897.6
70°	428.9	269.6	355.4	686.2	909.8	894.5	848.5	827.1	787.3	765.9	753.5
72.5°	355.4	217.5	260.4	533.0	765.9	747.5	707.7	683.1	649.5	631.1	618.8
75°	287.9	229.7	199.1	395.2	621.8	609.6	572.9	548.3	520.7	496.3	499.3
77.5°	211.4	214.4	159.3	291.0	493.2	474.8	453.4	422.7	410.5	386.0	386.0
80°	159.3	168.5	119.5	199.1	355.4	355.4	337.0	315.5	294.1	281.9	281.9
82.5°	107.2	107.2	88.8	125.6	242.0	232.8	220.6	214.4	202.2	196.1	196.1
85°	49.0	61.3	55.1	76.6	131.7	137.9	137.9	131.7	128.6	122.6	125.6
87.5°	15.3	27.6	33.7	42.9	67.4	70.4	73.5	73.5	73.5	76.6	76.6
90°	11.3	20.4	29.3	31.6	49.7	73.8	85.8	76.3	57.2	42.9	42.9
92.5°	45.2	121.9	198.8	218.0	306.4	424.3	483.3	423.5	304.1	214.5	206.0
95°	108.4	248.9	389.4	424.5	753.8	1192.9	1412.5	1260.4	956.4	728.3	702.4
97.5°	187.5	311.4	435.4	466.3	1015.5	1747.7	2113.7	2017.6	1825.4	1681.2	1632.1
100°	248.4	360.8	473.2	501.4	1110.7	1923.1	2329.3	2336.4	2350.4	2360.9	2302.4
102.5°	300.3	405.2	510.1	536.3	1154.4	1978.3	2390.3	2512.8	2757.7	2941.3	2891.2
105°	388.4	477.2	566.1	588.3	1186.7	1984.6	2383.6	2658.1	3207.1	3618.8	3591.9
107.5°	478.7	561.6	644.3	665.0	1192.7	1896.3	2248.1	2630.9	3396.8	3971.1	3977.6
110°	539.7	614.5	689.3	707.9	1183.7	1818.0	2135.2	2563.2	3419.3	4061.5	4089.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	599.6	670.8	742.1	759.9	1184.0	1749.6	2032.4	2470.5	3346.7	4003.8	4047.0
115°	689.9	755.6	821.3	837.8	1195.0	1671.2	1909.3	2331.3	3175.4	3808.5	3868.3
117.5°	779.1	838.8	898.6	913.5	1217.2	1622.1	1824.6	2205.5	2967.3	3538.6	3605.0
120°	831.0	887.2	943.4	957.5	1235.3	1605.6	1790.8	2138.8	2834.9	3356.9	3421.3
122.5°	881.8	938.6	995.2	1009.4	1261.3	1597.0	1764.8	2078.2	2705.0	3175.0	3238.7
125°	959.7	1011.4	1063.1	1076.1	1296.2	1589.7	1736.6	2002.8	2535.2	2934.5	2993.1
127.5°	1023.0	1075.2	1127.4	1140.4	1331.2	1585.7	1712.8	1941.4	2398.6	2741.5	2790.9
130°	1056.9	1113.1	1169.3	1183.3	1356.8	1588.1	1703.8	1907.3	2314.3	2619.5	2665.2
132.5°	1091.9	1148.1	1204.3	1218.3	1377.6	1589.8	1695.9	1878.0	2242.4	2515.6	2556.5
135°	1143.8	1195.0	1246.2	1259.0	1400.1	1588.3	1682.3	1834.9	2140.1	2368.9	2404.1
137.5°	1196.9	1247.6	1298.2	1310.9	1434.0	1598.1	1680.2	1809.1	2067.0	2260.5	2289.3
140°	1240.9	1287.6	1334.2	1345.9	1454.7	1599.7	1672.2	1783.6	2006.5	2173.6	2200.5
142.5°	1274.7	1317.9	1361.1	1371.9	1472.0	1605.5	1672.2	1770.0	1965.7	2112.6	2135.7
145°	1326.7	1364.3	1402.0	1411.4	1494.6	1605.5	1660.9	1740.9	1901.0	2021.1	2038.7
147.5°	1378.7	1415.3	1452.0	1461.1	1527.7	1616.5	1660.9	1723.9	1849.8	1944.3	1958.9
150°	1412.5	1445.6	1478.8	1487.0	1544.9	1622.2	1660.9	1714.1	1820.5	1900.3	1912.1
152.5°	1447.5	1472.6	1497.8	1504.0	1556.3	1626.0	1660.9	1706.3	1797.1	1865.3	1874.1
155°	1499.5	1518.0	1536.6	1541.2	1581.1	1634.3	1660.9	1697.0	1769.3	1823.5	1829.4
157.5°	1537.9	1556.0	1574.0	1578.5	1605.9	1642.6	1660.9	1689.0	1745.2	1787.4	1791.6
160°	1563.8	1577.9	1591.9	1595.4	1617.3	1646.3	1660.9	1685.0	1733.2	1769.3	1771.7
162.5°	1589.8	1600.3	1610.9	1613.5	1629.3	1650.4	1660.9	1681.2	1721.9	1752.4	1754.7
165°	1618.0	1627.5	1637.1	1639.4	1646.6	1656.1	1660.9	1675.5	1704.6	1726.4	1728.8
167.5°	1644.0	1648.5	1653.0	1654.2	1660.2	1668.2	1672.2	1681.7	1700.8	1715.1	1716.1
170°	1660.9	1665.4	1669.9	1671.1	1671.5	1671.9	1672.2	1681.7	1700.8	1715.1	1715.1
172.5°	1669.9	1670.9	1671.9	1672.2	1672.2	1672.2	1672.2	1679.7	1694.7	1706.0	1705.1
175°	1682.3	1682.3	1682.3	1682.3	1679.0	1674.5	1672.2	1677.0	1686.5	1693.6	1693.6
177.5°	1682.3	1682.3	1682.3	1682.3	1679.7	1676.2	1674.5	1678.3	1685.8	1691.4	1690.4
180°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9
2.5°	3320.7	3311.4	3320.7	3314.5	3317.6	3308.4	3280.8	3271.6	3280.8	3290.0	3290.0
5°	3360.5	3354.3	3360.5	3360.5	3357.4	3351.3	3320.7	3314.5	3320.7	3323.7	3317.6
7.5°	3372.7	3363.5	3372.7	3366.6	3366.6	3360.5	3329.8	3323.7	3326.7	3336.0	3326.7
10°	3372.7	3363.5	3372.7	3369.6	3366.6	3360.5	3329.8	3317.6	3317.6	3326.7	3317.6
12.5°	3357.4	3351.3	3357.4	3351.3	3351.3	3345.1	3314.5	3302.3	3305.3	3308.4	3296.1
15°	3332.9	3323.7	3332.9	3326.7	3329.8	3320.7	3286.9	3274.7	3274.7	3280.8	3259.4
17.5°	3296.1	3283.8	3296.1	3293.1	3290.0	3283.8	3253.2	3241.0	3237.9	3241.0	3225.6
20°	3253.2	3244.0	3253.2	3250.2	3250.2	3237.9	3207.3	3192.0	3192.0	3192.0	3176.7
22.5°	3185.8	3176.7	3185.8	3192.0	3192.0	3188.9	3161.4	3139.9	3133.8	3133.8	3115.4
25°	3109.2	3100.1	3109.2	3109.2	3106.2	3109.2	3100.1	3087.9	3078.6	3069.4	3051.0
27.5°	3035.7	3029.6	3035.7	3029.6	3035.7	3026.6	3023.5	3020.4	3008.2	2999.0	2974.4
30°	2962.2	2956.1	2962.2	2956.1	2950.0	2943.9	2928.6	2922.4	2934.6	2928.6	2888.7
32.5°	2870.4	2864.2	2870.4	2870.4	2864.2	2864.2	2839.7	2830.5	2833.6	2852.0	2815.2
35°	2775.4	2766.2	2775.4	2772.3	2775.4	2766.2	2750.9	2747.8	2735.6	2756.9	2729.4
37.5°	2665.1	2655.9	2665.1	2665.1	2665.1	2671.2	2659.0	2649.8	2631.4	2659.0	2637.5
40°	2551.7	2539.5	2551.7	2548.7	2551.7	2557.9	2551.7	2545.6	2527.2	2548.7	2530.3
42.5°	2423.1	2420.0	2423.1	2426.1	2426.1	2438.4	2447.6	2435.3	2429.2	2413.9	2426.1
45°	2285.3	2279.1	2285.3	2291.3	2294.4	2300.6	2328.2	2328.2	2318.9	2294.4	2312.8
47.5°	2138.2	2122.9	2138.2	2156.5	2156.5	2165.8	2193.3	2214.7	2199.5	2168.9	2178.0
50°	1981.9	1985.0	1981.9	1994.3	1994.3	2027.9	2049.4	2070.8	2086.1	2049.4	2006.5
52.5°	1828.8	1825.7	1828.8	1838.0	1850.2	1865.5	1902.3	1923.7	1948.3	1926.8	1859.5
55°	1675.6	1681.8	1675.6	1678.7	1684.9	1694.0	1749.1	1770.6	1816.6	1789.0	1718.5
57.5°	1522.5	1513.2	1522.5	1528.6	1531.6	1540.9	1586.8	1626.7	1654.2	1657.3	1571.5
60°	1344.8	1332.6	1344.8	1372.4	1378.5	1384.6	1427.5	1464.3	1488.8	1498.0	1409.2
62.5°	1188.6	1167.1	1188.6	1206.9	1219.2	1234.5	1265.1	1320.3	1341.7	1344.8	1219.2
65°	1023.1	1014.0	1023.1	1059.9	1062.9	1081.3	1115.1	1154.9	1200.8	1194.7	1014.0
67.5°	873.0	873.0	873.0	897.6	915.9	925.2	968.0	986.4	1044.6	1050.7	845.5
70°	735.2	732.1	735.2	753.5	765.9	787.3	827.1	848.5	894.5	909.8	686.2
72.5°	603.5	600.4	603.5	618.8	631.1	649.5	683.1	707.7	747.5	765.9	533.0
75°	487.1	480.9	487.1	499.3	496.3	520.7	548.3	572.9	609.6	621.8	395.2
77.5°	373.7	373.7	373.7	386.0	386.0	410.5	422.7	453.4	474.8	493.2	291.0
80°	278.8	275.7	278.8	281.9	281.9	294.1	315.5	337.0	355.4	355.4	199.1
82.5°	196.1	189.9	196.1	196.1	196.1	202.2	214.4	220.6	232.8	242.0	125.6
85°	122.6	122.6	122.6	125.6	122.6	128.6	131.7	137.9	137.9	131.7	76.6
87.5°	79.7	76.6	79.7	76.6	76.6	73.5	73.5	73.5	70.4	67.4	42.9
90°	42.9	42.9	42.9	42.9	42.9	57.2	76.3	85.8	73.8	49.7	31.6
92.5°	171.9	137.8	171.9	206.0	214.5	304.1	423.5	483.3	424.3	306.4	218.0
95°	599.0	495.7	599.0	702.4	728.3	956.4	1260.4	1412.5	1192.9	753.8	424.5
97.5°	1435.3	1238.6	1435.3	1632.1	1681.2	1825.4	2017.6	2113.7	1747.7	1015.5	466.3
100°	2068.0	1833.7	2068.0	2302.4	2360.9	2350.4	2336.4	2329.3	1923.1	1110.7	501.4
102.5°	2690.4	2489.7	2690.4	2891.2	2941.3	2757.7	2512.8	2390.3	1978.3	1154.4	536.3
105°	3484.0	3376.1	3484.0	3591.9	3618.8	3207.1	2658.1	2383.6	1984.6	1186.7	588.3
107.5°	4003.7	4029.8	4003.7	3977.6	3971.1	3396.8	2630.9	2248.1	1896.3	1192.7	665.0
110°	4201.9	4314.4	4201.9	4089.5	4061.5	3419.3	2563.2	2135.2	1818.0	1183.7	707.9





TEST NUMBER: P936167

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	4219.6	4392.2	4219.6	4047.0	4003.8	3346.7	2470.5	2032.4	1749.6	1184.0	759.9
115°	4107.7	4347.0	4107.7	3868.3	3808.5	3175.4	2331.3	1909.3	1671.2	1195.0	837.8
117.5°	3870.5	4136.0	3870.5	3605.0	3538.6	2967.3	2205.5	1824.6	1622.1	1217.2	913.5
120°	3679.3	3937.2	3679.3	3421.3	3356.9	2834.9	2138.8	1790.8	1605.6	1235.3	957.5
122.5°	3493.1	3747.5	3493.1	3238.7	3175.0	2705.0	2078.2	1764.8	1597.0	1261.3	1009.4
125°	3227.5	3461.9	3227.5	2993.1	2934.5	2535.2	2002.8	1736.6	1589.7	1296.2	1076.1
127.5°	2988.7	3186.3	2988.7	2790.9	2741.5	2398.6	1941.4	1712.8	1585.7	1331.2	1140.4
130°	2847.9	3030.6	2847.9	2665.2	2619.5	2314.3	1907.3	1703.8	1588.1	1356.8	1183.3
132.5°	2720.1	2883.8	2720.1	2556.5	2515.6	2242.4	1878.0	1695.9	1589.8	1377.6	1218.3
135°	2545.1	2686.2	2545.1	2404.1	2368.9	2140.1	1834.9	1682.3	1588.3	1400.1	1259.0
137.5°	2404.7	2520.1	2404.7	2289.3	2260.5	2067.0	1809.1	1680.2	1598.1	1434.0	1310.9
140°	2308.4	2416.3	2308.4	2200.5	2173.6	2006.5	1783.6	1672.2	1599.7	1454.7	1345.9
142.5°	2228.6	2321.5	2228.6	2135.7	2112.6	1965.7	1770.0	1672.2	1605.5	1472.0	1371.9
145°	2108.9	2179.2	2108.9	2038.7	2021.1	1901.0	1740.9	1660.9	1605.5	1494.6	1411.4
147.5°	2017.1	2075.3	2017.1	1958.9	1944.3	1849.8	1723.9	1660.9	1616.5	1527.7	1461.1
150°	1959.3	2006.5	1959.3	1912.1	1900.3	1820.5	1714.1	1660.9	1622.2	1544.9	1487.0
152.5°	1909.8	1945.5	1909.8	1874.1	1865.3	1797.1	1706.3	1660.9	1626.0	1556.3	1504.0
155°	1853.0	1876.6	1853.0	1829.4	1823.5	1769.3	1697.0	1660.9	1634.3	1581.1	1541.2
157.5°	1808.1	1824.6	1808.1	1791.6	1787.4	1745.2	1689.0	1660.9	1642.6	1605.9	1578.5
160°	1781.3	1790.8	1781.3	1771.7	1769.3	1733.2	1685.0	1660.9	1646.3	1617.3	1595.4
162.5°	1763.6	1772.7	1763.6	1754.7	1752.4	1721.9	1681.2	1660.9	1650.4	1629.3	1613.5
165°	1738.4	1747.9	1738.4	1728.8	1726.4	1704.6	1675.5	1660.9	1656.1	1646.6	1639.4
167.5°	1720.2	1724.2	1720.2	1716.1	1715.1	1700.8	1681.7	1672.2	1668.2	1660.2	1654.2
170°	1715.1	1715.1	1715.1	1715.1	1715.1	1700.8	1681.7	1672.2	1671.9	1671.5	1671.1
172.5°	1701.7	1698.2	1701.7	1705.1	1706.0	1694.7	1679.7	1672.2	1672.2	1672.2	1672.2
175°	1693.6	1693.6	1693.6	1693.6	1693.6	1686.5	1677.0	1672.2	1674.5	1679.0	1682.3
177.5°	1686.3	1682.3	1686.3	1690.4	1691.4	1685.8	1678.3	1674.5	1676.2	1679.7	1682.3
180°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3



TEST NUMBER: P936167

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9
2.5°	3283.8	3265.5	3265.5	3234.9	3222.6	3213.4	3198.1	3152.1	3139.9	3127.6	3146.1
5°	3311.4	3277.8	3253.2	3198.1	3152.1	3133.8	3075.6	2965.3	2891.8	2836.6	2806.0
7.5°	3317.6	3274.7	3228.7	3143.0	3032.7	2983.7	2806.0	2603.8	2548.7	2499.7	2469.0
10°	3311.4	3262.5	3198.1	3069.4	2809.1	2723.3	2545.6	2413.9	2380.2	2371.0	2380.2
12.5°	3290.0	3244.0	3155.2	2940.8	2576.3	2518.1	2413.9	2337.3	2331.2	2346.5	2429.2
15°	3253.2	3210.3	3106.2	2769.2	2447.6	2404.7	2331.2	2303.6	2337.3	2444.6	2692.7
17.5°	3216.5	3167.4	3038.8	2600.8	2349.5	2318.9	2266.9	2322.0	2511.9	2655.9	2738.6
20°	3167.4	3109.2	2962.2	2478.2	2279.1	2251.5	2227.1	2475.2	2619.2	2671.2	2717.2
22.5°	3109.2	3048.0	2858.0	2392.4	2205.6	2184.2	2199.5	2561.0	2619.2	2655.9	2695.8
25°	3032.7	2980.6	2735.6	2325.1	2147.4	2122.9	2181.1	2551.7	2585.4	2594.6	2674.3
27.5°	2962.2	2894.8	2606.9	2263.8	2076.9	2067.7	2196.4	2511.9	2536.4	2545.6	2631.4
30°	2876.4	2775.4	2462.9	2199.5	2003.4	2000.3	2199.5	2462.9	2456.8	2481.3	2567.0
32.5°	2787.6	2597.7	2300.6	2119.8	1933.0	1929.9	2178.0	2389.4	2383.3	2417.0	2481.3
35°	2704.9	2459.9	2080.0	2027.9	1844.1	1847.2	2126.0	2303.6	2306.7	2337.3	2377.1
37.5°	2619.2	2340.4	1838.0	1926.8	1758.4	1758.4	2055.4	2224.0	2217.8	2227.1	2282.2
40°	2518.1	2153.5	1623.6	1795.1	1678.7	1669.5	1969.7	2138.2	2116.7	2113.7	2190.3
42.5°	2410.8	1948.3	1464.3	1620.5	1586.8	1574.5	1865.5	2034.1	1994.3	2003.4	2101.4
45°	2294.4	1893.1	1341.7	1369.3	1491.8	1482.7	1752.2	1914.6	1887.0	1911.5	2012.6
47.5°	2178.0	1782.8	1301.9	1136.5	1390.8	1387.7	1626.7	1798.2	1782.8	1807.3	1914.6
50°	2018.7	1660.3	1298.8	974.1	1277.4	1289.7	1476.5	1684.9	1684.9	1706.2	1819.6
52.5°	1813.5	1510.2	1179.3	882.3	1145.7	1182.4	1344.8	1586.8	1592.9	1614.4	1715.5
55°	1626.7	1354.0	1093.6	811.7	989.4	1069.1	1216.2	1485.7	1498.0	1519.4	1611.3
57.5°	1455.0	1127.3	1075.2	729.1	845.5	922.1	1102.8	1387.7	1393.8	1412.2	1501.0
60°	1271.3	814.8	986.4	640.2	719.9	778.1	998.7	1271.3	1292.8	1305.0	1381.5
62.5°	1062.9	591.3	894.5	578.9	658.6	670.9	912.9	1161.0	1188.6	1197.8	1243.7
65°	756.6	496.3	759.7	526.9	594.2	597.3	821.0	1047.6	1072.2	1087.5	1121.1
67.5°	511.6	404.3	578.9	477.8	545.3	548.3	732.1	915.9	949.6	961.9	983.4
70°	355.4	269.6	428.9	425.8	490.1	496.3	637.1	796.5	827.1	836.3	848.5
72.5°	260.4	217.5	355.4	382.9	431.9	438.1	539.1	661.7	692.3	701.5	707.7
75°	199.1	229.7	287.9	333.9	367.6	370.7	441.1	539.1	560.6	566.7	569.8
77.5°	159.3	214.4	211.4	269.6	300.2	294.1	346.1	416.6	435.0	435.0	435.0
80°	119.5	168.5	159.3	193.0	220.6	214.4	248.1	297.2	303.2	309.4	306.3
82.5°	88.8	107.2	107.2	122.6	147.0	140.9	165.5	193.0	193.0	193.0	199.1
85°	55.1	61.3	49.0	64.4	82.7	79.7	91.9	104.2	107.2	107.2	101.1
87.5°	33.7	27.6	15.3	24.5	36.7	36.7	42.9	46.0	42.9	42.9	42.9
90°	29.3	20.4	11.3	20.4	29.3	31.6	49.7	73.8	85.8	76.3	57.2
92.5°	198.8	121.9	45.2	121.9	198.8	218.0	306.4	424.3	483.3	423.5	304.1
95°	389.4	248.9	108.4	248.9	389.4	424.5	753.8	1192.9	1412.5	1260.4	956.4
97.5°	435.4	311.4	187.5	311.4	435.4	466.3	1015.5	1747.7	2113.7	2017.6	1825.4
100°	473.2	360.8	248.4	360.8	473.2	501.4	1110.7	1923.1	2329.3	2336.4	2350.4
102.5°	510.1	405.2	300.3	405.2	510.1	536.3	1154.4	1978.3	2390.3	2512.8	2757.7
105°	566.1	477.2	388.4	477.2	566.1	588.3	1186.7	1984.6	2383.6	2658.1	3207.1
107.5°	644.3	561.6	478.7	561.6	644.3	665.0	1192.7	1896.3	2248.1	2630.9	3396.8
110°	689.3	614.5	539.7	614.5	689.3	707.9	1183.7	1818.0	2135.2	2563.2	3419.3



TEST NUMBER: P936167

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	742.1	670.8	599.6	670.8	742.1	759.9	1184.0	1749.6	2032.4	2470.5	3346.7
115°	821.3	755.6	689.9	755.6	821.3	837.8	1195.0	1671.2	1909.3	2331.3	3175.4
117.5°	898.6	838.8	779.1	838.8	898.6	913.5	1217.2	1622.1	1824.6	2205.5	2967.3
120°	943.4	887.2	831.0	887.2	943.4	957.5	1235.3	1605.6	1790.8	2138.8	2834.9
122.5°	995.2	938.6	881.8	938.6	995.2	1009.4	1261.3	1597.0	1764.8	2078.2	2705.0
125°	1063.1	1011.4	959.7	1011.4	1063.1	1076.1	1296.2	1589.7	1736.6	2002.8	2535.2
127.5°	1127.4	1075.2	1023.0	1075.2	1127.4	1140.4	1331.2	1585.7	1712.8	1941.4	2398.6
130°	1169.3	1113.1	1056.9	1113.1	1169.3	1183.3	1356.8	1588.1	1703.8	1907.3	2314.3
132.5°	1204.3	1148.1	1091.9	1148.1	1204.3	1218.3	1377.6	1589.8	1695.9	1878.0	2242.4
135°	1246.2	1195.0	1143.8	1195.0	1246.2	1259.0	1400.1	1588.3	1682.3	1834.9	2140.1
137.5°	1298.2	1247.6	1196.9	1247.6	1298.2	1310.9	1434.0	1598.1	1680.2	1809.1	2067.0
140°	1334.2	1287.6	1240.9	1287.6	1334.2	1345.9	1454.7	1599.7	1672.2	1783.6	2006.5
142.5°	1361.1	1317.9	1274.7	1317.9	1361.1	1371.9	1472.0	1605.5	1672.2	1770.0	1965.7
145°	1402.0	1364.3	1326.7	1364.3	1402.0	1411.4	1494.6	1605.5	1660.9	1740.9	1901.0
147.5°	1452.0	1415.3	1378.7	1415.3	1452.0	1461.1	1527.7	1616.5	1660.9	1723.9	1849.8
150°	1478.8	1445.6	1412.5	1445.6	1478.8	1487.0	1544.9	1622.2	1660.9	1714.1	1820.5
152.5°	1497.8	1472.6	1447.5	1472.6	1497.8	1504.0	1556.3	1626.0	1660.9	1706.3	1797.1
155°	1536.6	1518.0	1499.5	1518.0	1536.6	1541.2	1581.1	1634.3	1660.9	1697.0	1769.3
157.5°	1574.0	1556.0	1537.9	1556.0	1574.0	1578.5	1605.9	1642.6	1660.9	1689.0	1745.2
160°	1591.9	1577.9	1563.8	1577.9	1591.9	1595.4	1617.3	1646.3	1660.9	1685.0	1733.2
162.5°	1610.9	1600.3	1589.8	1600.3	1610.9	1613.5	1629.3	1650.4	1660.9	1681.2	1721.9
165°	1637.1	1627.5	1618.0	1627.5	1637.1	1639.4	1646.6	1656.1	1660.9	1675.5	1704.6
167.5°	1653.0	1648.5	1644.0	1648.5	1653.0	1654.2	1660.2	1668.2	1672.2	1681.7	1700.8
170°	1669.9	1665.4	1660.9	1665.4	1669.9	1671.1	1671.5	1671.9	1672.2	1681.7	1700.8
172.5°	1671.9	1670.9	1669.9	1670.9	1671.9	1672.2	1672.2	1672.2	1672.2	1679.7	1694.7
175°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1679.0	1674.5	1672.2	1677.0	1686.5
177.5°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1679.7	1676.2	1674.5	1678.3	1685.8
180°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3



TEST NUMBER: P936167  
 CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9	3237.9
2.5°	3124.6	3115.4	3127.6	3093.9	3127.6	3115.4	3124.6	3146.1	3127.6	3139.9	3152.1
5°	2741.6	2726.3	2677.4	2637.5	2677.4	2726.3	2741.6	2806.0	2836.6	2891.8	2965.3
7.5°	2450.6	2438.4	2426.1	2401.7	2426.1	2438.4	2450.6	2469.0	2499.7	2548.7	2603.8
10°	2386.4	2389.4	2407.7	2404.7	2407.7	2389.4	2386.4	2380.2	2371.0	2380.2	2413.9
12.5°	2551.7	2579.3	2680.4	2674.3	2680.4	2579.3	2551.7	2429.2	2346.5	2331.2	2337.3
15°	2741.6	2750.9	2772.3	2775.4	2772.3	2750.9	2741.6	2692.7	2444.6	2337.3	2303.6
17.5°	2760.0	2763.1	2778.4	2778.4	2778.4	2763.1	2760.0	2738.6	2655.9	2511.9	2322.0
20°	2744.7	2750.9	2781.5	2787.6	2781.5	2750.9	2744.7	2717.2	2671.2	2619.2	2475.2
22.5°	2738.6	2750.9	2775.4	2772.3	2775.4	2750.9	2738.6	2695.8	2655.9	2619.2	2561.0
25°	2708.0	2708.0	2711.0	2714.1	2711.0	2708.0	2708.0	2674.3	2594.6	2585.4	2551.7
27.5°	2643.6	2649.8	2668.1	2665.1	2668.1	2649.8	2643.6	2631.4	2545.6	2536.4	2511.9
30°	2585.4	2579.3	2564.0	2551.7	2564.0	2579.3	2585.4	2567.0	2481.3	2456.8	2462.9
32.5°	2487.4	2472.1	2456.8	2447.6	2456.8	2472.1	2487.4	2481.3	2417.0	2383.3	2389.4
35°	2371.0	2374.1	2371.0	2361.8	2371.0	2374.1	2371.0	2377.1	2337.3	2306.7	2303.6
37.5°	2288.3	2294.4	2291.3	2279.1	2291.3	2294.4	2288.3	2282.2	2227.1	2217.8	2224.0
40°	2202.5	2205.6	2202.5	2193.3	2202.5	2205.6	2202.5	2190.3	2113.7	2116.7	2138.2
42.5°	2119.8	2116.7	2107.6	2101.4	2107.6	2116.7	2119.8	2101.4	2003.4	1994.3	2034.1
45°	2024.8	2027.9	2009.5	2000.3	2009.5	2027.9	2024.8	2012.6	1911.5	1887.0	1914.6
47.5°	1929.9	1929.9	1914.6	1905.4	1914.6	1929.9	1929.9	1914.6	1807.3	1782.8	1798.2
50°	1828.8	1825.7	1804.3	1801.3	1804.3	1825.7	1828.8	1819.6	1706.2	1684.9	1684.9
52.5°	1712.4	1712.4	1715.5	1721.6	1715.5	1712.4	1712.4	1715.5	1614.4	1592.9	1586.8
55°	1611.3	1614.4	1635.8	1642.0	1635.8	1614.4	1611.3	1611.3	1519.4	1498.0	1485.7
57.5°	1507.2	1507.2	1522.5	1522.5	1522.5	1507.2	1507.2	1501.0	1412.2	1393.8	1387.7
60°	1387.7	1393.8	1406.1	1403.0	1406.1	1393.8	1387.7	1381.5	1305.0	1292.8	1271.3
62.5°	1262.1	1268.2	1271.3	1265.1	1271.3	1268.2	1262.1	1243.7	1197.8	1188.6	1161.0
65°	1130.4	1136.5	1139.6	1133.4	1139.6	1136.5	1130.4	1121.1	1087.5	1072.2	1047.6
67.5°	995.6	992.5	989.4	1001.7	989.4	992.5	995.6	983.4	961.9	949.6	915.9
70°	857.7	857.7	854.7	860.8	854.7	857.7	857.7	848.5	836.3	827.1	796.5
72.5°	710.7	707.7	719.9	710.7	719.9	707.7	710.7	707.7	701.5	692.3	661.7
75°	566.7	572.9	566.7	575.9	566.7	572.9	566.7	569.8	566.7	560.6	539.1
77.5°	431.9	438.1	431.9	431.9	431.9	438.1	431.9	435.0	435.0	435.0	416.6
80°	306.3	303.2	303.2	300.2	303.2	303.2	306.3	306.3	309.4	303.2	297.2
82.5°	196.1	193.0	193.0	199.1	193.0	193.0	196.1	199.1	193.0	193.0	193.0
85°	107.2	110.2	104.2	104.2	104.2	110.2	107.2	101.1	107.2	107.2	104.2
87.5°	39.8	36.7	36.7	36.7	36.7	36.7	39.8	42.9	42.9	42.9	46.0
90°	42.9	42.9	42.9	42.9	42.9	42.9	42.9	57.2	76.3	85.8	73.8
92.5°	214.5	206.0	171.9	137.8	171.9	206.0	214.5	304.1	423.5	483.3	424.3
95°	728.3	702.4	599.0	495.7	599.0	702.4	728.3	956.4	1260.4	1412.5	1192.9
97.5°	1681.2	1632.1	1435.3	1238.6	1435.3	1632.1	1681.2	1825.4	2017.6	2113.7	1747.7
100°	2360.9	2302.4	2068.0	1833.7	2068.0	2302.4	2360.9	2350.4	2336.4	2329.3	1923.1
102.5°	2941.3	2891.2	2690.4	2489.7	2690.4	2891.2	2941.3	2757.7	2512.8	2390.3	1978.3
105°	3618.8	3591.9	3484.0	3376.1	3484.0	3591.9	3618.8	3207.1	2658.1	2383.6	1984.6
107.5°	3971.1	3977.6	4003.7	4029.8	4003.7	3977.6	3971.1	3396.8	2630.9	2248.1	1896.3
110°	4061.5	4089.5	4201.9	4314.4	4201.9	4089.5	4061.5	3419.3	2563.2	2135.2	1818.0



TEST NUMBER: P936167

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	4003.8	4047.0	4219.6	4392.2	4219.6	4047.0	4003.8	3346.7	2470.5	2032.4	1749.6
115°	3808.5	3868.3	4107.7	4347.0	4107.7	3868.3	3808.5	3175.4	2331.3	1909.3	1671.2
117.5°	3538.6	3605.0	3870.5	4136.0	3870.5	3605.0	3538.6	2967.3	2205.5	1824.6	1622.1
120°	3356.9	3421.3	3679.3	3937.2	3679.3	3421.3	3356.9	2834.9	2138.8	1790.8	1605.6
122.5°	3175.0	3238.7	3493.1	3747.5	3493.1	3238.7	3175.0	2705.0	2078.2	1764.8	1597.0
125°	2934.5	2993.1	3227.5	3461.9	3227.5	2993.1	2934.5	2535.2	2002.8	1736.6	1589.7
127.5°	2741.5	2790.9	2988.7	3186.3	2988.7	2790.9	2741.5	2398.6	1941.4	1712.8	1585.7
130°	2619.5	2665.2	2847.9	3030.6	2847.9	2665.2	2619.5	2314.3	1907.3	1703.8	1588.1
132.5°	2515.6	2556.5	2720.1	2883.8	2720.1	2556.5	2515.6	2242.4	1878.0	1695.9	1589.8
135°	2368.9	2404.1	2545.1	2686.2	2545.1	2404.1	2368.9	2140.1	1834.9	1682.3	1588.3
137.5°	2260.5	2289.3	2404.7	2520.1	2404.7	2289.3	2260.5	2067.0	1809.1	1680.2	1598.1
140°	2173.6	2200.5	2308.4	2416.3	2308.4	2200.5	2173.6	2006.5	1783.6	1672.2	1599.7
142.5°	2112.6	2135.7	2228.6	2321.5	2228.6	2135.7	2112.6	1965.7	1770.0	1672.2	1605.5
145°	2021.1	2038.7	2108.9	2179.2	2108.9	2038.7	2021.1	1901.0	1740.9	1660.9	1605.5
147.5°	1944.3	1958.9	2017.1	2075.3	2017.1	1958.9	1944.3	1849.8	1723.9	1660.9	1616.5
150°	1900.3	1912.1	1959.3	2006.5	1959.3	1912.1	1900.3	1820.5	1714.1	1660.9	1622.2
152.5°	1865.3	1874.1	1909.8	1945.5	1909.8	1874.1	1865.3	1797.1	1706.3	1660.9	1626.0
155°	1823.5	1829.4	1853.0	1876.6	1853.0	1829.4	1823.5	1769.3	1697.0	1660.9	1634.3
157.5°	1787.4	1791.6	1808.1	1824.6	1808.1	1791.6	1787.4	1745.2	1689.0	1660.9	1642.6
160°	1769.3	1771.7	1781.3	1790.8	1781.3	1771.7	1769.3	1733.2	1685.0	1660.9	1646.3
162.5°	1752.4	1754.7	1763.6	1772.7	1763.6	1754.7	1752.4	1721.9	1681.2	1660.9	1650.4
165°	1726.4	1728.8	1738.4	1747.9	1738.4	1728.8	1726.4	1704.6	1675.5	1660.9	1656.1
167.5°	1715.1	1716.1	1720.2	1724.2	1720.2	1716.1	1715.1	1700.8	1681.7	1672.2	1668.2
170°	1715.1	1715.1	1715.1	1715.1	1715.1	1715.1	1715.1	1700.8	1681.7	1672.2	1671.9
172.5°	1706.0	1705.1	1701.7	1698.2	1701.7	1705.1	1706.0	1694.7	1679.7	1672.2	1672.2
175°	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1693.6	1686.5	1677.0	1672.2	1674.5
177.5°	1691.4	1690.4	1686.3	1682.3	1686.3	1690.4	1691.4	1685.8	1678.3	1674.5	1676.2
180°	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3	1682.3



TEST NUMBER: P936167

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	3237.9	3237.9	3237.9	3237.9	3237.9
2.5°	3198.1	3213.4	3222.6	3234.9	3265.5
5°	3075.6	3133.8	3152.1	3198.1	3253.2
7.5°	2806.0	2983.7	3032.7	3143.0	3228.7
10°	2545.6	2723.3	2809.1	3069.4	3198.1
12.5°	2413.9	2518.1	2576.3	2940.8	3155.2
15°	2331.2	2404.7	2447.6	2769.2	3106.2
17.5°	2266.9	2318.9	2349.5	2600.8	3038.8
20°	2227.1	2251.5	2279.1	2478.2	2962.2
22.5°	2199.5	2184.2	2205.6	2392.4	2858.0
25°	2181.1	2122.9	2147.4	2325.1	2735.6
27.5°	2196.4	2067.7	2076.9	2263.8	2606.9
30°	2199.5	2000.3	2003.4	2199.5	2462.9
32.5°	2178.0	1929.9	1933.0	2119.8	2300.6
35°	2126.0	1847.2	1844.1	2027.9	2080.0
37.5°	2055.4	1758.4	1758.4	1926.8	1838.0
40°	1969.7	1669.5	1678.7	1795.1	1623.6
42.5°	1865.5	1574.5	1586.8	1620.5	1464.3
45°	1752.2	1482.7	1491.8	1369.3	1341.7
47.5°	1626.7	1387.7	1390.8	1136.5	1301.9
50°	1476.5	1289.7	1277.4	974.1	1298.8
52.5°	1344.8	1182.4	1145.7	882.3	1179.3
55°	1216.2	1069.1	989.4	811.7	1093.6
57.5°	1102.8	922.1	845.5	729.1	1075.2
60°	998.7	778.1	719.9	640.2	986.4
62.5°	912.9	670.9	658.6	578.9	894.5
65°	821.0	597.3	594.2	526.9	759.7
67.5°	732.1	548.3	545.3	477.8	578.9
70°	637.1	496.3	490.1	425.8	428.9
72.5°	539.1	438.1	431.9	382.9	355.4
75°	441.1	370.7	367.6	333.9	287.9
77.5°	346.1	294.1	300.2	269.6	211.4
80°	248.1	214.4	220.6	193.0	159.3
82.5°	165.5	140.9	147.0	122.6	107.2
85°	91.9	79.7	82.7	64.4	49.0
87.5°	42.9	36.7	36.7	24.5	15.3
90°	49.7	31.6	29.3	20.4	11.3
92.5°	306.4	218.0	198.8	121.9	45.2
95°	753.8	424.5	389.4	248.9	108.4
97.5°	1015.5	466.3	435.4	311.4	187.5
100°	1110.7	501.4	473.2	360.8	248.4
102.5°	1154.4	536.3	510.1	405.2	300.3
105°	1186.7	588.3	566.1	477.2	388.4
107.5°	1192.7	665.0	644.3	561.6	478.7
110°	1183.7	707.9	689.3	614.5	539.7



TEST NUMBER: P936167

CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	1184.0	759.9	742.1	670.8	599.6
115°	1195.0	837.8	821.3	755.6	689.9
117.5°	1217.2	913.5	898.6	838.8	779.1
120°	1235.3	957.5	943.4	887.2	831.0
122.5°	1261.3	1009.4	995.2	938.6	881.8
125°	1296.2	1076.1	1063.1	1011.4	959.7
127.5°	1331.2	1140.4	1127.4	1075.2	1023.0
130°	1356.8	1183.3	1169.3	1113.1	1056.9
132.5°	1377.6	1218.3	1204.3	1148.1	1091.9
135°	1400.1	1259.0	1246.2	1195.0	1143.8
137.5°	1434.0	1310.9	1298.2	1247.6	1196.9
140°	1454.7	1345.9	1334.2	1287.6	1240.9
142.5°	1472.0	1371.9	1361.1	1317.9	1274.7
145°	1494.6	1411.4	1402.0	1364.3	1326.7
147.5°	1527.7	1461.1	1452.0	1415.3	1378.7
150°	1544.9	1487.0	1478.8	1445.6	1412.5
152.5°	1556.3	1504.0	1497.8	1472.6	1447.5
155°	1581.1	1541.2	1536.6	1518.0	1499.5
157.5°	1605.9	1578.5	1574.0	1556.0	1537.9
160°	1617.3	1595.4	1591.9	1577.9	1563.8
162.5°	1629.3	1613.5	1610.9	1600.3	1589.8
165°	1646.6	1639.4	1637.1	1627.5	1618.0
167.5°	1660.2	1654.2	1653.0	1648.5	1644.0
170°	1671.5	1671.1	1669.9	1665.4	1660.9
172.5°	1672.2	1672.2	1671.9	1670.9	1669.9
175°	1679.0	1682.3	1682.3	1682.3	1682.3
177.5°	1679.7	1682.3	1682.3	1682.3	1682.3
180°	1682.3	1682.3	1682.3	1682.3	1682.3



TEST NUMBER: P936167  
 CATALOG NUMBER: SQ4-FA-150U-125D-93050-1D-UNV-STD-W-8-4000K

**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	13.59	14.40	14.60	15.42	16.78	16.43	17.23	17.44	18.25	19.62
	3H	14.06	14.79	15.08	15.81	17.20	17.77	18.49	18.79	19.52	20.90
	4H	14.25	14.94	15.29	15.97	17.36	18.22	18.90	19.25	19.93	21.32
	6H	14.37	15.00	15.41	16.03	17.43	18.50	19.13	19.54	20.17	21.57
	8H	14.37	14.97	15.42	16.02	17.42	18.57	19.17	19.62	20.23	21.62
	12H	14.34	14.91	15.39	15.95	17.37	18.61	19.18	19.67	20.23	21.65
4H	2H	14.62	15.30	15.66	16.33	17.72	16.83	17.51	17.87	18.55	19.94
	3H	15.64	16.21	16.69	17.27	18.67	18.33	18.90	19.38	19.96	21.37
	4H	15.91	16.44	16.97	17.49	18.91	18.86	19.38	19.92	20.43	21.86
	6H	16.04	16.48	17.10	17.56	18.98	19.22	19.67	20.29	20.75	22.17
	8H	16.04	16.46	17.11	17.53	18.96	19.33	19.75	20.40	20.82	22.25
	12H	16.00	16.38	17.09	17.46	18.90	19.39	19.77	20.47	20.85	22.29
8H	4H	16.36	16.78	17.43	17.85	19.28	18.98	19.40	20.05	20.47	21.90
	6H	16.62	16.97	17.71	18.08	19.51	19.42	19.76	20.51	20.87	22.30
	8H	16.67	16.97	17.76	18.06	19.51	19.57	19.87	20.67	20.97	22.42
	12H	16.65	16.91	17.75	18.00	19.49	19.67	19.93	20.77	21.02	22.51
12H	4H	16.37	16.75	17.45	17.83	19.27	18.94	19.32	20.03	20.40	21.84
	6H	16.68	16.99	17.78	18.08	19.53	19.41	19.72	20.51	20.81	22.26
	8H	16.75	17.02	17.85	18.10	19.59	19.57	19.84	20.67	20.93	22.42