

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: P934562

Luminaire Tested: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934562
REPORT IS A COMBINATION OF REPORTS P933703 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

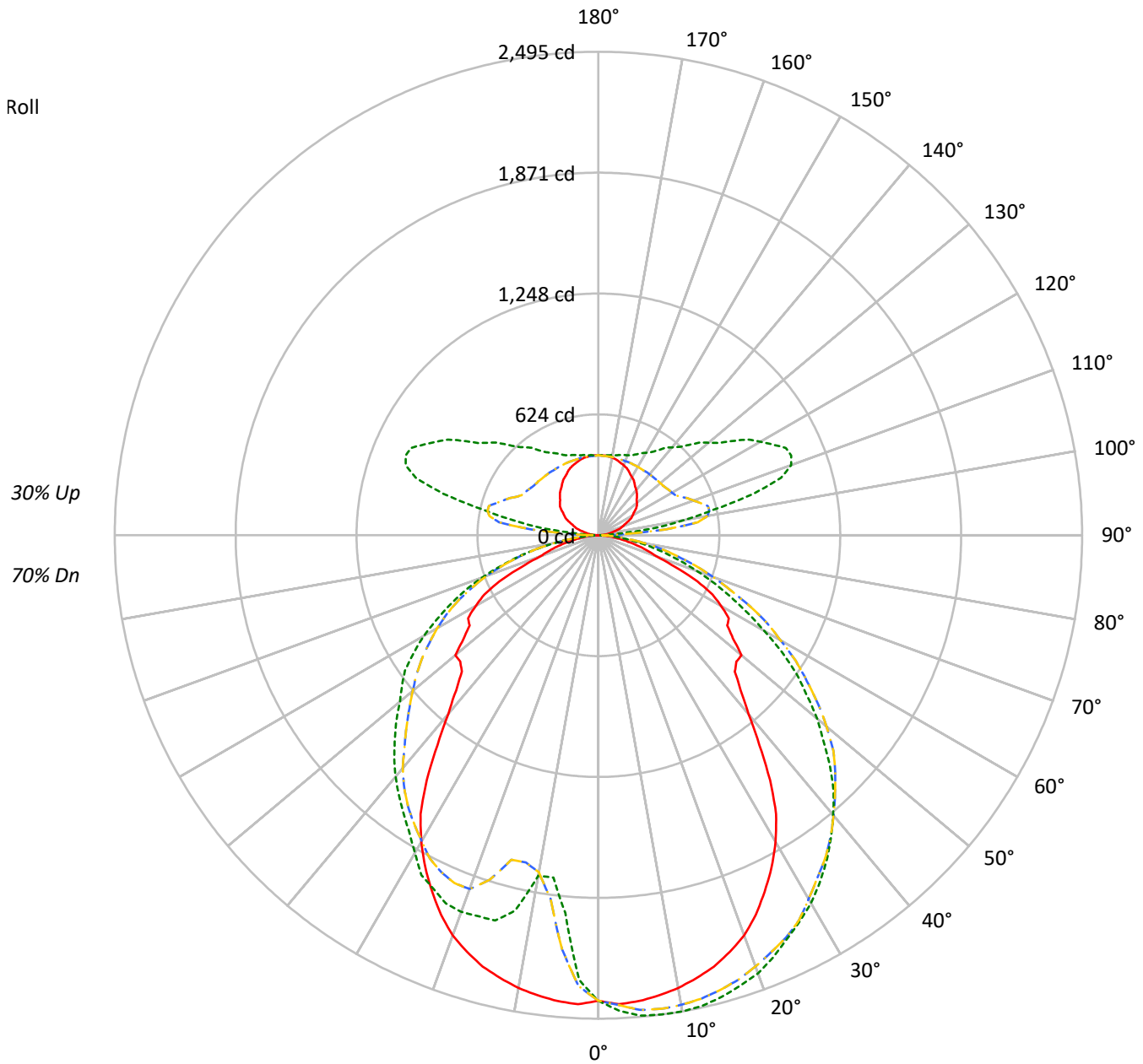
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8903.0 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 84
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	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	29	26	31	27	24	24	24	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14859	14859	14859	14859
5°	14964	14999	14964	11794
10°	14859	14775	14859	10563
15°	14692	14455	14692	12070
20°	14379	14076	14379	12095
25°	13744	13523	13744	11839
30°	12926	13063	12926	11277
35°	11518	12483	11518	10658
40°	9592	11799	9592	10191
45°	8565	10999	8565	9653
50°	9092	10044	9092	9114
55°	8546	9015	8546	8802
60°	8799	7657	8799	8062
65°	7965	6330	7965	7075
70°	5502	5044	5502	5930
75°	4806	3729	4806	4465
80°	3847	2465	3847	2684
85°	2164	1306	2164	1110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13135 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	216.8	2.4
10°-20°	615.6	6.9
20°-30°	951.6	10.7
30°-40°	1136.0	12.8
40°-50°	1142.7	12.8
50°-60°	994.3	11.2
60°-70°	705.0	7.9
70°-80°	373.0	4.2
80°-90°	94.5	1.1
90°-100°	201.0	2.3
100°-110°	528.5	5.9
110°-120°	548.0	6.2
120°-130°	439.6	4.9
130°-140°	344.9	3.9
140°-150°	264.7	3.0
150°-160°	190.7	2.1
160°-170°	116.7	1.3
170°-180°	39.4	0.4
0°-30°	1784.0	20.0
0°-40°	2920.0	32.8
0°-60°	5057.0	56.8
0°-90°	6229.4	70.0
90°-120°	1277.6	14.4
90°-150°	2326.9	26.1
90°-180°	2674.0	30.0
0°-180°	8903.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2402	2402	2402	2402	2402	
5°	2413	2488	2413	1956	2413	229
15°	2304	2466	2304	2059	2304	648
25°	2029	2300	2029	2013	2029	932
35°	1543	2052	1543	1752	1543	955
45°	995	1691	995	1484	995	797
55°	811	1248	811	1218	811	745
65°	564	752	564	841	564	539
75°	214	357	214	427	214	225
85°	36	91	36	77	36	49
90°	3	10	3	10	3	4
95°	27	122	27	122	27	30
105°	95	828	95	828	95	101
115°	169	1066	169	1066	169	167
125°	235	849	235	849	235	209
135°	280	658	280	658	280	217
145°	325	534	325	534	325	204
155°	368	460	368	460	368	169
165°	397	428	397	428	397	112
175°	412	415	412	415	412	39
180°	412	412	412	412	412	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9
2.5°	2422.4	2422.4	2436.1	2440.5	2440.5	2433.7	2426.9	2433.7	2454.2	2461.0	2458.7
5°	2413.3	2431.5	2456.5	2461.0	2465.6	2463.3	2458.7	2463.3	2486.0	2490.6	2492.8
7.5°	2395.1	2429.2	2461.0	2467.8	2474.6	2467.8	2465.6	2470.1	2492.8	2497.4	2497.4
10°	2372.4	2420.1	2456.5	2461.0	2467.8	2461.0	2461.0	2470.1	2492.8	2497.4	2499.6
12.5°	2340.6	2406.5	2440.5	2445.1	2454.2	2451.9	2449.7	2458.7	2481.4	2486.0	2486.0
15°	2304.3	2381.4	2413.3	2417.9	2433.7	2429.2	2429.2	2438.3	2463.3	2470.1	2467.8
17.5°	2254.2	2349.7	2386.0	2392.8	2404.2	2401.9	2404.2	2413.3	2436.1	2440.5	2442.9
20°	2197.5	2306.5	2349.7	2356.5	2367.8	2367.8	2367.8	2379.2	2401.9	2411.0	2411.0
22.5°	2120.2	2261.0	2306.5	2311.1	2324.7	2324.7	2329.2	2345.1	2365.6	2367.8	2367.8
25°	2029.2	2211.1	2249.7	2263.3	2277.0	2283.8	2290.6	2299.7	2306.5	2304.3	2306.5
27.5°	1933.8	2147.4	2197.5	2206.5	2224.7	2231.5	2240.6	2242.8	2245.2	2252.0	2247.4
30°	1827.0	2058.8	2133.8	2142.8	2172.4	2177.0	2167.9	2172.4	2183.8	2188.3	2192.9
32.5°	1706.6	1927.0	2067.9	2088.3	2115.6	2102.0	2099.7	2106.5	2124.7	2124.7	2129.2
35°	1543.0	1824.7	2006.6	2024.7	2045.2	2029.2	2038.4	2040.6	2052.0	2058.8	2056.5
37.5°	1363.5	1736.1	1942.9	1956.5	1972.5	1952.0	1965.7	1972.5	1981.5	1977.0	1977.0
40°	1204.4	1597.5	1867.9	1877.0	1890.6	1874.7	1888.4	1893.0	1897.4	1893.0	1890.6
42.5°	1086.2	1445.2	1788.4	1799.8	1790.6	1802.0	1806.6	1815.7	1808.8	1799.8	1799.8
45°	995.3	1404.4	1702.0	1715.7	1702.0	1720.3	1727.1	1727.1	1706.6	1702.0	1699.7
47.5°	965.8	1322.6	1615.7	1615.7	1608.9	1631.6	1643.0	1627.1	1606.5	1599.7	1599.7
50°	963.5	1231.7	1497.5	1488.5	1520.2	1547.5	1536.2	1520.2	1504.3	1479.3	1479.3
52.5°	874.9	1120.3	1345.3	1379.3	1429.4	1445.2	1427.0	1411.2	1383.9	1372.5	1363.5
55°	811.2	1004.4	1206.6	1274.8	1327.1	1347.5	1313.4	1297.6	1256.7	1249.9	1245.3
57.5°	797.6	836.2	1079.4	1165.8	1229.4	1227.1	1206.6	1177.1	1143.0	1136.2	1133.9
60°	731.7	604.4	943.0	1045.3	1111.2	1104.4	1086.2	1059.0	1027.1	1022.6	1018.1
62.5°	663.5	438.6	788.5	904.4	997.6	995.3	979.4	938.5	915.8	904.4	895.3
65°	563.6	368.2	561.3	752.2	886.3	890.7	856.7	827.2	802.2	788.5	786.3
67.5°	429.5	299.9	379.5	627.2	779.5	774.9	731.7	718.0	686.3	679.5	665.8
70°	318.1	200.0	263.6	509.0	674.9	663.5	629.5	613.6	584.0	568.1	559.0
72.5°	263.6	161.3	193.1	395.4	568.1	554.5	524.9	506.7	481.8	468.2	459.0
75°	213.6	170.5	147.7	293.1	461.3	452.2	424.9	406.7	386.3	368.2	370.4
77.5°	156.8	159.1	118.2	215.9	365.8	352.2	336.3	313.6	304.5	286.3	286.3
80°	118.2	125.0	88.6	147.7	263.6	263.6	250.0	234.0	218.2	209.1	209.1
82.5°	79.5	79.5	65.9	93.2	179.5	172.7	163.6	159.1	150.0	145.4	145.4
85°	36.3	45.5	40.9	56.9	97.7	102.2	102.2	97.7	95.4	90.9	93.2
87.5°	11.4	20.4	25.0	31.8	50.0	52.3	54.5	54.5	54.5	56.9	56.9
90°	2.8	5.0	7.3	7.8	12.2	18.1	21.0	18.7	14.0	10.5	10.5
92.5°	11.1	29.9	48.7	53.5	75.1	104.0	118.4	103.8	74.5	52.6	50.5
95°	26.6	61.0	95.4	104.0	184.8	292.5	346.3	309.1	234.5	178.5	172.2
97.5°	45.9	76.4	106.7	114.3	249.0	428.5	518.2	494.7	447.5	412.1	400.0
100°	60.9	88.5	116.0	122.9	272.3	471.5	571.0	572.7	576.2	578.8	564.5
102.5°	73.6	99.4	125.1	131.5	283.0	485.0	586.0	616.0	676.1	721.1	708.8
105°	95.3	117.0	138.8	144.2	290.9	486.5	584.3	651.6	786.2	887.2	880.5
107.5°	117.4	137.7	157.9	163.0	292.4	464.8	551.1	644.9	832.6	973.5	975.1
110°	132.3	150.6	168.9	173.5	290.2	445.7	523.4	628.3	838.3	995.7	1002.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	147.0	164.5	181.9	186.3	290.3	428.9	498.2	605.7	820.5	981.5	992.1
115°	169.1	185.2	201.4	205.4	292.9	409.7	468.1	571.6	778.5	933.6	948.3
117.5°	191.0	205.7	220.2	223.9	298.4	397.7	447.3	540.7	727.4	867.5	883.8
120°	203.7	217.5	231.3	234.8	302.8	393.6	439.0	524.3	694.9	822.9	838.7
122.5°	216.2	230.1	244.0	247.5	309.2	391.4	432.6	509.4	663.2	778.4	794.0
125°	235.3	247.9	260.6	263.8	317.7	389.7	425.7	491.0	621.5	719.4	733.7
127.5°	250.8	263.6	276.4	279.6	326.3	388.7	419.9	475.9	588.0	672.0	684.1
130°	259.1	272.9	286.7	290.1	332.6	389.3	417.7	467.5	567.4	642.2	653.4
132.5°	267.7	281.5	295.3	298.7	337.7	389.7	415.8	460.5	549.7	616.7	626.7
135°	280.4	292.9	305.5	308.6	343.3	389.4	412.5	449.9	524.7	580.7	589.4
137.5°	293.4	305.8	318.2	321.3	351.5	391.7	411.8	443.4	506.7	554.1	561.2
140°	304.2	315.7	327.1	329.9	356.6	392.1	410.0	437.3	491.9	532.8	539.4
142.5°	312.5	323.0	333.6	336.3	360.8	393.6	410.0	434.0	481.9	517.8	523.6
145°	325.3	334.5	343.7	346.0	366.5	393.6	407.2	426.8	466.0	495.5	499.8
147.5°	338.0	346.9	356.0	358.2	374.5	396.3	407.2	422.6	453.5	476.7	480.2
150°	346.3	354.5	362.5	364.6	378.8	397.7	407.2	420.3	446.3	465.8	468.7
152.5°	354.8	361.0	367.2	368.7	381.5	398.6	407.2	418.3	440.6	457.2	459.4
155°	367.6	372.2	376.7	377.8	387.6	400.7	407.2	416.1	433.8	447.0	448.5
157.5°	377.0	381.4	385.9	387.0	393.7	402.7	407.2	414.1	427.9	438.2	439.2
160°	383.4	386.8	390.2	391.1	396.4	403.6	407.2	413.1	424.9	433.8	434.3
162.5°	389.7	392.3	394.9	395.5	399.4	404.6	407.2	412.2	422.1	429.6	430.1
165°	396.6	399.0	401.3	401.9	403.7	406.0	407.2	410.8	417.8	423.2	423.8
167.5°	403.0	404.1	405.2	405.5	407.0	409.0	410.0	412.3	416.9	420.4	420.7
170°	407.2	408.3	409.4	409.7	409.8	409.9	410.0	412.3	416.9	420.4	420.4
172.5°	409.4	409.7	409.9	410.0	410.0	410.0	410.0	411.8	415.4	418.2	418.0
175°	412.5	412.5	412.5	412.5	411.7	410.5	410.0	411.1	413.5	415.2	415.2
177.5°	412.5	412.5	412.5	412.5	411.8	410.9	410.5	411.4	413.3	414.6	414.4
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9
2.5°	2463.3	2456.5	2463.3	2458.7	2461.0	2454.2	2433.7	2426.9	2433.7	2440.5	2440.5
5°	2492.8	2488.3	2492.8	2492.8	2490.6	2486.0	2463.3	2458.7	2463.3	2465.6	2461.0
7.5°	2501.9	2495.1	2501.9	2497.4	2497.4	2492.8	2470.1	2465.6	2467.8	2474.6	2467.8
10°	2501.9	2495.1	2501.9	2499.6	2497.4	2492.8	2470.1	2461.0	2461.0	2467.8	2461.0
12.5°	2490.6	2486.0	2490.6	2486.0	2486.0	2481.4	2458.7	2449.7	2451.9	2454.2	2445.1
15°	2472.4	2465.6	2472.4	2467.8	2470.1	2463.3	2438.3	2429.2	2429.2	2433.7	2417.9
17.5°	2445.1	2436.1	2445.1	2442.9	2440.5	2436.1	2413.3	2404.2	2401.9	2404.2	2392.8
20°	2413.3	2406.5	2413.3	2411.0	2411.0	2401.9	2379.2	2367.8	2367.8	2367.8	2356.5
22.5°	2363.3	2356.5	2363.3	2367.8	2367.8	2365.6	2345.1	2329.2	2324.7	2324.7	2311.1
25°	2306.5	2299.7	2306.5	2306.5	2304.3	2306.5	2299.7	2290.6	2283.8	2277.0	2263.3
27.5°	2252.0	2247.4	2252.0	2247.4	2252.0	2245.2	2242.8	2240.6	2231.5	2224.7	2206.5
30°	2197.5	2192.9	2197.5	2192.9	2188.3	2183.8	2172.4	2167.9	2177.0	2172.4	2142.8
32.5°	2129.2	2124.7	2129.2	2129.2	2124.7	2124.7	2106.5	2099.7	2102.0	2115.6	2088.3
35°	2058.8	2052.0	2058.8	2056.5	2058.8	2052.0	2040.6	2038.4	2029.2	2045.2	2024.7
37.5°	1977.0	1970.1	1977.0	1977.0	1977.0	1981.5	1972.5	1965.7	1952.0	1972.5	1956.5
40°	1893.0	1883.8	1893.0	1890.6	1893.0	1897.4	1893.0	1888.4	1874.7	1890.6	1877.0
42.5°	1797.5	1795.2	1797.5	1799.8	1799.8	1808.8	1815.7	1806.6	1802.0	1790.6	1799.8
45°	1695.2	1690.7	1695.2	1699.7	1702.0	1706.6	1727.1	1727.1	1720.3	1702.0	1715.7
47.5°	1586.1	1574.8	1586.1	1599.7	1599.7	1606.5	1627.1	1643.0	1631.6	1608.9	1615.7
50°	1470.3	1472.5	1470.3	1479.3	1479.3	1504.3	1520.2	1536.2	1547.5	1520.2	1488.5
52.5°	1356.7	1354.3	1356.7	1363.5	1372.5	1383.9	1411.2	1427.0	1445.2	1429.4	1379.3
55°	1243.0	1247.5	1243.0	1245.3	1249.9	1256.7	1297.6	1313.4	1347.5	1327.1	1274.8
57.5°	1129.3	1122.5	1129.3	1133.9	1136.2	1143.0	1177.1	1206.6	1227.1	1229.4	1165.8
60°	997.6	988.5	997.6	1018.1	1022.6	1027.1	1059.0	1086.2	1104.4	1111.2	1045.3
62.5°	881.7	865.8	881.7	895.3	904.4	915.8	938.5	979.4	995.3	997.6	904.4
65°	759.0	752.2	759.0	786.3	788.5	802.2	827.2	856.7	890.7	886.3	752.2
67.5°	647.7	647.7	647.7	665.8	679.5	686.3	718.0	731.7	774.9	779.5	627.2
70°	545.3	543.1	545.3	559.0	568.1	584.0	613.6	629.5	663.5	674.9	509.0
72.5°	447.7	445.4	447.7	459.0	468.2	481.8	506.7	524.9	554.5	568.1	395.4
75°	361.3	356.8	361.3	370.4	368.2	386.3	406.7	424.9	452.2	461.3	293.1
77.5°	277.3	277.3	277.3	286.3	286.3	304.5	313.6	336.3	352.2	365.8	215.9
80°	206.8	204.5	206.8	209.1	209.1	218.2	234.0	250.0	263.6	263.6	147.7
82.5°	145.4	140.9	145.4	145.4	145.4	150.0	159.1	163.6	172.7	179.5	93.2
85°	90.9	90.9	90.9	93.2	90.9	95.4	97.7	102.2	102.2	97.7	56.9
87.5°	59.1	56.9	59.1	56.9	56.9	54.5	54.5	54.5	52.3	50.0	31.8
90°	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.0	18.1	12.2	7.8
92.5°	42.1	33.8	42.1	50.5	52.6	74.5	103.8	118.4	104.0	75.1	53.5
95°	146.8	121.5	146.8	172.2	178.5	234.5	309.1	346.3	292.5	184.8	104.0
97.5°	351.9	303.7	351.9	400.0	412.1	447.5	494.7	518.2	428.5	249.0	114.3
100°	507.0	449.5	507.0	564.5	578.8	576.2	572.7	571.0	471.5	272.3	122.9
102.5°	659.6	610.3	659.6	708.8	721.1	676.1	616.0	586.0	485.0	283.0	131.5
105°	854.1	827.6	854.1	880.5	887.2	786.2	651.6	584.3	486.5	290.9	144.2
107.5°	981.4	987.9	981.4	975.1	973.5	832.6	644.9	551.1	464.8	292.4	163.0
110°	1030.1	1057.6	1030.1	1002.6	995.7	838.3	628.3	523.4	445.7	290.2	173.5



TEST NUMBER: P934562

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1034.4	1076.7	1034.4	992.1	981.5	820.5	605.7	498.2	428.9	290.3	186.3
115°	1007.0	1065.7	1007.0	948.3	933.6	778.5	571.6	468.1	409.7	292.9	205.4
117.5°	948.9	1013.9	948.9	883.8	867.5	727.4	540.7	447.3	397.7	298.4	223.9
120°	901.9	965.2	901.9	838.7	822.9	694.9	524.3	439.0	393.6	302.8	234.8
122.5°	856.4	918.7	856.4	794.0	778.4	663.2	509.4	432.6	391.4	309.2	247.5
125°	791.2	848.7	791.2	733.7	719.4	621.5	491.0	425.7	389.7	317.7	263.8
127.5°	732.6	781.2	732.6	684.1	672.0	588.0	475.9	419.9	388.7	326.3	279.6
130°	698.2	742.9	698.2	653.4	642.2	567.4	467.5	417.7	389.3	332.6	290.1
132.5°	666.8	706.9	666.8	626.7	616.7	549.7	460.5	415.8	389.7	337.7	298.7
135°	623.9	658.5	623.9	589.4	580.7	524.7	449.9	412.5	389.4	343.3	308.6
137.5°	589.6	617.9	589.6	561.2	554.1	506.7	443.4	411.8	391.7	351.5	321.3
140°	565.8	592.3	565.8	539.4	532.8	491.9	437.3	410.0	392.1	356.6	329.9
142.5°	546.3	569.1	546.3	523.6	517.8	481.9	434.0	410.0	393.6	360.8	336.3
145°	517.0	534.2	517.0	499.8	495.5	466.0	426.8	407.2	393.6	366.5	346.0
147.5°	494.5	508.7	494.5	480.2	476.7	453.5	422.6	407.2	396.3	374.5	358.2
150°	480.3	491.9	480.3	468.7	465.8	446.3	420.3	407.2	397.7	378.8	364.6
152.5°	468.2	476.9	468.2	459.4	457.2	440.6	418.3	407.2	398.6	381.5	368.7
155°	454.3	460.0	454.3	448.5	447.0	433.8	416.1	407.2	400.7	387.6	377.8
157.5°	443.3	447.3	443.3	439.2	438.2	427.9	414.1	407.2	402.7	393.7	387.0
160°	436.6	439.0	436.6	434.3	433.8	424.9	413.1	407.2	403.6	396.4	391.1
162.5°	432.3	434.6	432.3	430.1	429.6	422.1	412.2	407.2	404.6	399.4	395.5
165°	426.2	428.5	426.2	423.8	423.2	417.8	410.8	407.2	406.0	403.7	401.9
167.5°	421.7	422.7	421.7	420.7	420.4	416.9	412.3	410.0	409.0	407.0	405.5
170°	420.4	420.4	420.4	420.4	420.4	416.9	412.3	410.0	409.9	409.8	409.7
172.5°	417.1	416.3	417.1	418.0	418.2	415.4	411.8	410.0	410.0	410.0	410.0
175°	415.2	415.2	415.2	415.2	415.2	413.5	411.1	410.0	410.5	411.7	412.5
177.5°	413.5	412.5	413.5	414.4	414.6	413.3	411.4	410.5	410.9	411.8	412.5
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P934562

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9
2.5°	2436.1	2422.4	2422.4	2399.7	2390.6	2383.8	2372.4	2338.3	2329.2	2320.1	2333.7
5°	2456.5	2431.5	2413.3	2372.4	2338.3	2324.7	2281.5	2199.7	2145.2	2104.3	2081.5
7.5°	2461.0	2429.2	2395.1	2331.5	2249.7	2213.3	2081.5	1931.5	1890.6	1854.3	1831.5
10°	2456.5	2420.1	2372.4	2277.0	2083.8	2020.2	1888.4	1790.6	1765.6	1758.8	1765.6
12.5°	2440.5	2406.5	2340.6	2181.5	1911.1	1867.9	1790.6	1733.9	1729.3	1740.7	1802.0
15°	2413.3	2381.4	2304.3	2054.3	1815.7	1783.8	1729.3	1708.9	1733.9	1813.4	1997.4
17.5°	2386.0	2349.7	2254.2	1929.3	1742.9	1720.3	1681.6	1722.5	1863.4	1970.1	2031.6
20°	2349.7	2306.5	2197.5	1838.3	1690.7	1670.2	1652.0	1836.1	1942.9	1981.5	2015.6
22.5°	2306.5	2261.0	2120.2	1774.8	1636.1	1620.2	1631.6	1899.8	1942.9	1970.1	1999.7
25°	2249.7	2211.1	2029.2	1724.7	1592.9	1574.8	1617.9	1893.0	1917.9	1924.7	1983.8
27.5°	2197.5	2147.4	1933.8	1679.3	1540.7	1533.8	1629.3	1863.4	1881.6	1888.4	1952.0
30°	2133.8	2058.8	1827.0	1631.6	1486.1	1483.9	1631.6	1827.0	1822.5	1840.7	1904.2
32.5°	2067.9	1927.0	1706.6	1572.5	1433.9	1431.6	1615.7	1772.4	1768.0	1793.0	1840.7
35°	2006.6	1824.7	1543.0	1504.3	1367.9	1370.3	1577.1	1708.9	1711.1	1733.9	1763.4
37.5°	1942.9	1736.1	1363.5	1429.4	1304.4	1304.4	1524.8	1649.8	1645.2	1652.0	1692.9
40°	1867.9	1597.5	1204.4	1331.6	1245.3	1238.5	1461.1	1586.1	1570.2	1568.0	1624.8
42.5°	1788.4	1445.2	1086.2	1202.1	1177.1	1168.0	1383.9	1508.9	1479.3	1486.1	1558.8
45°	1702.0	1404.4	995.3	1015.7	1106.7	1099.8	1299.8	1420.2	1399.8	1418.0	1492.9
47.5°	1615.7	1322.6	965.8	843.0	1031.7	1029.4	1206.6	1333.9	1322.6	1340.7	1420.2
50°	1497.5	1231.7	963.5	722.6	947.6	956.6	1095.3	1249.9	1249.9	1265.7	1349.8
52.5°	1345.3	1120.3	874.9	654.5	849.9	877.1	997.6	1177.1	1181.6	1197.6	1272.5
55°	1206.6	1004.4	811.2	602.2	734.0	793.1	902.1	1102.1	1111.2	1127.1	1195.2
57.5°	1079.4	836.2	797.6	540.9	627.2	684.0	818.0	1029.4	1033.9	1047.6	1113.5
60°	943.0	604.4	731.7	475.0	534.1	577.2	740.8	943.0	959.0	968.0	1024.9
62.5°	788.5	438.6	663.5	429.5	488.6	497.6	677.2	861.2	881.7	888.5	922.6
65°	561.3	368.2	563.6	390.9	440.9	443.1	609.0	777.1	795.3	806.7	831.7
67.5°	379.5	299.9	429.5	354.5	404.5	406.7	543.1	679.5	704.4	713.6	729.4
70°	263.6	200.0	318.1	315.9	363.6	368.2	472.6	590.8	613.6	620.4	629.5
72.5°	193.1	161.3	263.6	284.1	320.4	325.0	399.9	490.8	513.6	520.4	524.9
75°	147.7	170.5	213.6	247.7	272.7	275.0	327.2	399.9	415.9	420.4	422.7
77.5°	118.2	159.1	156.8	200.0	222.7	218.2	256.8	309.1	322.7	322.7	322.7
80°	88.6	125.0	118.2	143.2	163.6	159.1	184.1	220.4	225.0	229.5	227.2
82.5°	65.9	79.5	79.5	90.9	109.0	104.6	122.7	143.2	143.2	143.2	147.7
85°	40.9	45.5	36.3	47.7	61.3	59.1	68.1	77.3	79.5	79.5	75.0
87.5°	25.0	20.4	11.4	18.2	27.3	27.3	31.8	34.1	31.8	31.8	31.8
90°	7.3	5.0	2.8	5.0	7.3	7.8	12.2	18.1	21.0	18.7	14.0
92.5°	48.7	29.9	11.1	29.9	48.7	53.5	75.1	104.0	118.4	103.8	74.5
95°	95.4	61.0	26.6	61.0	95.4	104.0	184.8	292.5	346.3	309.1	234.5
97.5°	106.7	76.4	45.9	76.4	106.7	114.3	249.0	428.5	518.2	494.7	447.5
100°	116.0	88.5	60.9	88.5	116.0	122.9	272.3	471.5	571.0	572.7	576.2
102.5°	125.1	99.4	73.6	99.4	125.1	131.5	283.0	485.0	586.0	616.0	676.1
105°	138.8	117.0	95.3	117.0	138.8	144.2	290.9	486.5	584.3	651.6	786.2
107.5°	157.9	137.7	117.4	137.7	157.9	163.0	292.4	464.8	551.1	644.9	832.6
110°	168.9	150.6	132.3	150.6	168.9	173.5	290.2	445.7	523.4	628.3	838.3



TEST NUMBER: P934562

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	181.9	164.5	147.0	164.5	181.9	186.3	290.3	428.9	498.2	605.7	820.5
115°	201.4	185.2	169.1	185.2	201.4	205.4	292.9	409.7	468.1	571.6	778.5
117.5°	220.2	205.7	191.0	205.7	220.2	223.9	298.4	397.7	447.3	540.7	727.4
120°	231.3	217.5	203.7	217.5	231.3	234.8	302.8	393.6	439.0	524.3	694.9
122.5°	244.0	230.1	216.2	230.1	244.0	247.5	309.2	391.4	432.6	509.4	663.2
125°	260.6	247.9	235.3	247.9	260.6	263.8	317.7	389.7	425.7	491.0	621.5
127.5°	276.4	263.6	250.8	263.6	276.4	279.6	326.3	388.7	419.9	475.9	588.0
130°	286.7	272.9	259.1	272.9	286.7	290.1	332.6	389.3	417.7	467.5	567.4
132.5°	295.3	281.5	267.7	281.5	295.3	298.7	337.7	389.7	415.8	460.5	549.7
135°	305.5	292.9	280.4	292.9	305.5	308.6	343.3	389.4	412.5	449.9	524.7
137.5°	318.2	305.8	293.4	305.8	318.2	321.3	351.5	391.7	411.8	443.4	506.7
140°	327.1	315.7	304.2	315.7	327.1	329.9	356.6	392.1	410.0	437.3	491.9
142.5°	333.6	323.0	312.5	323.0	333.6	336.3	360.8	393.6	410.0	434.0	481.9
145°	343.7	334.5	325.3	334.5	343.7	346.0	366.5	393.6	407.2	426.8	466.0
147.5°	356.0	346.9	338.0	346.9	356.0	358.2	374.5	396.3	407.2	422.6	453.5
150°	362.5	354.5	346.3	354.5	362.5	364.6	378.8	397.7	407.2	420.3	446.3
152.5°	367.2	361.0	354.8	361.0	367.2	368.7	381.5	398.6	407.2	418.3	440.6
155°	376.7	372.2	367.6	372.2	376.7	377.8	387.6	400.7	407.2	416.1	433.8
157.5°	385.9	381.4	377.0	381.4	385.9	387.0	393.7	402.7	407.2	414.1	427.9
160°	390.2	386.8	383.4	386.8	390.2	391.1	396.4	403.6	407.2	413.1	424.9
162.5°	394.9	392.3	389.7	392.3	394.9	395.5	399.4	404.6	407.2	412.2	422.1
165°	401.3	399.0	396.6	399.0	401.3	401.9	403.7	406.0	407.2	410.8	417.8
167.5°	405.2	404.1	403.0	404.1	405.2	405.5	407.0	409.0	410.0	412.3	416.9
170°	409.4	408.3	407.2	408.3	409.4	409.7	409.8	409.9	410.0	412.3	416.9
172.5°	409.9	409.7	409.4	409.7	409.9	410.0	410.0	410.0	410.0	411.8	415.4
175°	412.5	412.5	412.5	412.5	412.5	412.5	411.7	410.5	410.0	411.1	413.5
177.5°	412.5	412.5	412.5	412.5	412.5	412.5	411.8	410.9	410.5	411.4	413.3
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P934562

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9	2401.9
2.5°	2317.9	2311.1	2320.1	2295.1	2320.1	2311.1	2317.9	2333.7	2320.1	2329.2	2338.3
5°	2033.8	2022.4	1986.1	1956.5	1986.1	2022.4	2033.8	2081.5	2104.3	2145.2	2199.7
7.5°	1817.9	1808.8	1799.8	1781.6	1799.8	1808.8	1817.9	1831.5	1854.3	1890.6	1931.5
10°	1770.2	1772.4	1786.1	1783.8	1786.1	1772.4	1770.2	1765.6	1758.8	1765.6	1790.6
12.5°	1893.0	1913.4	1988.4	1983.8	1988.4	1913.4	1893.0	1802.0	1740.7	1729.3	1733.9
15°	2033.8	2040.6	2056.5	2058.8	2056.5	2040.6	2033.8	1997.4	1813.4	1733.9	1708.9
17.5°	2047.4	2049.7	2061.1	2061.1	2061.1	2049.7	2047.4	2031.6	1970.1	1863.4	1722.5
20°	2036.1	2040.6	2063.3	2067.9	2063.3	2040.6	2036.1	2015.6	1981.5	1942.9	1836.1
22.5°	2031.6	2040.6	2058.8	2056.5	2058.8	2040.6	2031.6	1999.7	1970.1	1942.9	1899.8
25°	2008.8	2008.8	2011.0	2013.4	2011.0	2008.8	2008.8	1983.8	1924.7	1917.9	1893.0
27.5°	1961.1	1965.7	1979.3	1977.0	1979.3	1965.7	1961.1	1952.0	1888.4	1881.6	1863.4
30°	1917.9	1913.4	1902.0	1893.0	1902.0	1913.4	1917.9	1904.2	1840.7	1822.5	1827.0
32.5°	1845.2	1833.9	1822.5	1815.7	1822.5	1833.9	1845.2	1840.7	1793.0	1768.0	1772.4
35°	1758.8	1761.1	1758.8	1752.0	1758.8	1761.1	1758.8	1763.4	1733.9	1711.1	1708.9
37.5°	1697.5	1702.0	1699.7	1690.7	1699.7	1702.0	1697.5	1692.9	1652.0	1645.2	1649.8
40°	1633.9	1636.1	1633.9	1627.1	1633.9	1636.1	1633.9	1624.8	1568.0	1570.2	1586.1
42.5°	1572.5	1570.2	1563.4	1558.8	1563.4	1570.2	1572.5	1558.8	1486.1	1479.3	1508.9
45°	1502.1	1504.3	1490.7	1483.9	1490.7	1504.3	1502.1	1492.9	1418.0	1399.8	1420.2
47.5°	1431.6	1431.6	1420.2	1413.4	1420.2	1431.6	1431.6	1420.2	1340.7	1322.6	1333.9
50°	1356.7	1354.3	1338.5	1336.2	1338.5	1354.3	1356.7	1349.8	1265.7	1249.9	1249.9
52.5°	1270.3	1270.3	1272.5	1277.1	1272.5	1270.3	1270.3	1272.5	1197.6	1181.6	1177.1
55°	1195.2	1197.6	1213.5	1218.0	1213.5	1197.6	1195.2	1195.2	1127.1	1111.2	1102.1
57.5°	1118.1	1118.1	1129.3	1129.3	1129.3	1118.1	1118.1	1113.5	1047.6	1033.9	1029.4
60°	1029.4	1033.9	1043.0	1040.8	1043.0	1033.9	1029.4	1024.9	968.0	959.0	943.0
62.5°	936.2	940.8	943.0	938.5	943.0	940.8	936.2	922.6	888.5	881.7	861.2
65°	838.5	843.0	845.4	840.8	845.4	843.0	838.5	831.7	806.7	795.3	777.1
67.5°	738.5	736.2	734.0	743.1	734.0	736.2	738.5	729.4	713.6	704.4	679.5
70°	636.3	636.3	634.0	638.5	634.0	636.3	636.3	629.5	620.4	613.6	590.8
72.5°	527.2	524.9	534.1	527.2	534.1	524.9	527.2	524.9	520.4	513.6	490.8
75°	420.4	424.9	420.4	427.2	420.4	424.9	420.4	422.7	420.4	415.9	399.9
77.5°	320.4	325.0	320.4	320.4	320.4	325.0	320.4	322.7	322.7	322.7	309.1
80°	227.2	225.0	225.0	222.7	225.0	225.0	227.2	227.2	229.5	225.0	220.4
82.5°	145.4	143.2	143.2	147.7	143.2	143.2	145.4	147.7	143.2	143.2	143.2
85°	79.5	81.8	77.3	77.3	77.3	81.8	79.5	75.0	79.5	79.5	77.3
87.5°	29.5	27.3	27.3	27.3	27.3	27.3	29.5	31.8	31.8	31.8	34.1
90°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.0	18.1
92.5°	52.6	50.5	42.1	33.8	42.1	50.5	52.6	74.5	103.8	118.4	104.0
95°	178.5	172.2	146.8	121.5	146.8	172.2	178.5	234.5	309.1	346.3	292.5
97.5°	412.1	400.0	351.9	303.7	351.9	400.0	412.1	447.5	494.7	518.2	428.5
100°	578.8	564.5	507.0	449.5	507.0	564.5	578.8	576.2	572.7	571.0	471.5
102.5°	721.1	708.8	659.6	610.3	659.6	708.8	721.1	676.1	616.0	586.0	485.0
105°	887.2	880.5	854.1	827.6	854.1	880.5	887.2	786.2	651.6	584.3	486.5
107.5°	973.5	975.1	981.4	987.9	981.4	975.1	973.5	832.6	644.9	551.1	464.8
110°	995.7	1002.6	1030.1	1057.6	1030.1	1002.6	995.7	838.3	628.3	523.4	445.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	981.5	992.1	1034.4	1076.7	1034.4	992.1	981.5	820.5	605.7	498.2	428.9
115°	933.6	948.3	1007.0	1065.7	1007.0	948.3	933.6	778.5	571.6	468.1	409.7
117.5°	867.5	883.8	948.9	1013.9	948.9	883.8	867.5	727.4	540.7	447.3	397.7
120°	822.9	838.7	901.9	965.2	901.9	838.7	822.9	694.9	524.3	439.0	393.6
122.5°	778.4	794.0	856.4	918.7	856.4	794.0	778.4	663.2	509.4	432.6	391.4
125°	719.4	733.7	791.2	848.7	791.2	733.7	719.4	621.5	491.0	425.7	389.7
127.5°	672.0	684.1	732.6	781.2	732.6	684.1	672.0	588.0	475.9	419.9	388.7
130°	642.2	653.4	698.2	742.9	698.2	653.4	642.2	567.4	467.5	417.7	389.3
132.5°	616.7	626.7	666.8	706.9	666.8	626.7	616.7	549.7	460.5	415.8	389.7
135°	580.7	589.4	623.9	658.5	623.9	589.4	580.7	524.7	449.9	412.5	389.4
137.5°	554.1	561.2	589.6	617.9	589.6	561.2	554.1	506.7	443.4	411.8	391.7
140°	532.8	539.4	565.8	592.3	565.8	539.4	532.8	491.9	437.3	410.0	392.1
142.5°	517.8	523.6	546.3	569.1	546.3	523.6	517.8	481.9	434.0	410.0	393.6
145°	495.5	499.8	517.0	534.2	517.0	499.8	495.5	466.0	426.8	407.2	393.6
147.5°	476.7	480.2	494.5	508.7	494.5	480.2	476.7	453.5	422.6	407.2	396.3
150°	465.8	468.7	480.3	491.9	480.3	468.7	465.8	446.3	420.3	407.2	397.7
152.5°	457.2	459.4	468.2	476.9	468.2	459.4	457.2	440.6	418.3	407.2	398.6
155°	447.0	448.5	454.3	460.0	454.3	448.5	447.0	433.8	416.1	407.2	400.7
157.5°	438.2	439.2	443.3	447.3	443.3	439.2	438.2	427.9	414.1	407.2	402.7
160°	433.8	434.3	436.6	439.0	436.6	434.3	433.8	424.9	413.1	407.2	403.6
162.5°	429.6	430.1	432.3	434.6	432.3	430.1	429.6	422.1	412.2	407.2	404.6
165°	423.2	423.8	426.2	428.5	426.2	423.8	423.2	417.8	410.8	407.2	406.0
167.5°	420.4	420.7	421.7	422.7	421.7	420.7	420.4	416.9	412.3	410.0	409.0
170°	420.4	420.4	420.4	420.4	420.4	420.4	420.4	416.9	412.3	410.0	409.9
172.5°	418.2	418.0	417.1	416.3	417.1	418.0	418.2	415.4	411.8	410.0	410.0
175°	415.2	415.2	415.2	415.2	415.2	415.2	415.2	413.5	411.1	410.0	410.5
177.5°	414.6	414.4	413.5	412.5	413.5	414.4	414.6	413.3	411.4	410.5	410.9
180°	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5	412.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2401.9	2401.9	2401.9	2401.9	2401.9
2.5°	2372.4	2383.8	2390.6	2399.7	2422.4
5°	2281.5	2324.7	2338.3	2372.4	2413.3
7.5°	2081.5	2213.3	2249.7	2331.5	2395.1
10°	1888.4	2020.2	2083.8	2277.0	2372.4
12.5°	1790.6	1867.9	1911.1	2181.5	2340.6
15°	1729.3	1783.8	1815.7	2054.3	2304.3
17.5°	1681.6	1720.3	1742.9	1929.3	2254.2
20°	1652.0	1670.2	1690.7	1838.3	2197.5
22.5°	1631.6	1620.2	1636.1	1774.8	2120.2
25°	1617.9	1574.8	1592.9	1724.7	2029.2
27.5°	1629.3	1533.8	1540.7	1679.3	1933.8
30°	1631.6	1483.9	1486.1	1631.6	1827.0
32.5°	1615.7	1431.6	1433.9	1572.5	1706.6
35°	1577.1	1370.3	1367.9	1504.3	1543.0
37.5°	1524.8	1304.4	1304.4	1429.4	1363.5
40°	1461.1	1238.5	1245.3	1331.6	1204.4
42.5°	1383.9	1168.0	1177.1	1202.1	1086.2
45°	1299.8	1099.8	1106.7	1015.7	995.3
47.5°	1206.6	1029.4	1031.7	843.0	965.8
50°	1095.3	956.6	947.6	722.6	963.5
52.5°	997.6	877.1	849.9	654.5	874.9
55°	902.1	793.1	734.0	602.2	811.2
57.5°	818.0	684.0	627.2	540.9	797.6
60°	740.8	577.2	534.1	475.0	731.7
62.5°	677.2	497.6	488.6	429.5	663.5
65°	609.0	443.1	440.9	390.9	563.6
67.5°	543.1	406.7	404.5	354.5	429.5
70°	472.6	368.2	363.6	315.9	318.1
72.5°	399.9	325.0	320.4	284.1	263.6
75°	327.2	275.0	272.7	247.7	213.6
77.5°	256.8	218.2	222.7	200.0	156.8
80°	184.1	159.1	163.6	143.2	118.2
82.5°	122.7	104.6	109.0	90.9	79.5
85°	68.1	59.1	61.3	47.7	36.3
87.5°	31.8	27.3	27.3	18.2	11.4
90°	12.2	7.8	7.3	5.0	2.8
92.5°	75.1	53.5	48.7	29.9	11.1
95°	184.8	104.0	95.4	61.0	26.6
97.5°	249.0	114.3	106.7	76.4	45.9
100°	272.3	122.9	116.0	88.5	60.9
102.5°	283.0	131.5	125.1	99.4	73.6
105°	290.9	144.2	138.8	117.0	95.3
107.5°	292.4	163.0	157.9	137.7	117.4
110°	290.2	173.5	168.9	150.6	132.3



TEST NUMBER: P934562

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	290.3	186.3	181.9	164.5	147.0
115°	292.9	205.4	201.4	185.2	169.1
117.5°	298.4	223.9	220.2	205.7	191.0
120°	302.8	234.8	231.3	217.5	203.7
122.5°	309.2	247.5	244.0	230.1	216.2
125°	317.7	263.8	260.6	247.9	235.3
127.5°	326.3	279.6	276.4	263.6	250.8
130°	332.6	290.1	286.7	272.9	259.1
132.5°	337.7	298.7	295.3	281.5	267.7
135°	343.3	308.6	305.5	292.9	280.4
137.5°	351.5	321.3	318.2	305.8	293.4
140°	356.6	329.9	327.1	315.7	304.2
142.5°	360.8	336.3	333.6	323.0	312.5
145°	366.5	346.0	343.7	334.5	325.3
147.5°	374.5	358.2	356.0	346.9	338.0
150°	378.8	364.6	362.5	354.5	346.3
152.5°	381.5	368.7	367.2	361.0	354.8
155°	387.6	377.8	376.7	372.2	367.6
157.5°	393.7	387.0	385.9	381.4	377.0
160°	396.4	391.1	390.2	386.8	383.4
162.5°	399.4	395.5	394.9	392.3	389.7
165°	403.7	401.9	401.3	399.0	396.6
167.5°	407.0	405.5	405.2	404.1	403.0
170°	409.8	409.7	409.4	408.3	407.2
172.5°	410.0	410.0	409.9	409.7	409.4
175°	411.7	412.5	412.5	412.5	412.5
177.5°	411.8	412.5	412.5	412.5	412.5
180°	412.5	412.5	412.5	412.5	412.5



TEST NUMBER: P934562
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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	15.85	16.92	16.61	17.71	18.66	18.67	19.74	19.43	20.53	21.49
	3H	16.34	17.30	17.12	18.10	19.08	20.03	20.99	20.81	21.79	22.78
	4H	16.54	17.45	17.34	18.26	19.25	20.48	21.39	21.28	22.20	23.19
	6H	16.67	17.51	17.48	18.32	19.33	20.78	21.62	21.59	22.43	23.44
	8H	16.68	17.48	17.49	18.31	19.32	20.86	21.66	21.67	22.49	23.50
	12H	16.66	17.42	17.48	18.24	19.28	20.90	21.66	21.73	22.49	23.53
4H	2H	16.90	17.81	17.70	18.62	19.61	19.11	20.02	19.90	20.82	21.82
	3H	17.95	18.71	18.76	19.55	20.56	20.63	21.39	21.44	22.23	23.24
	4H	18.23	18.92	19.06	19.76	20.80	21.16	21.85	21.99	22.69	23.73
	6H	18.37	18.97	19.21	19.83	20.88	21.54	22.14	22.38	23.00	24.04
	8H	18.38	18.94	19.23	19.80	20.86	21.65	22.21	22.50	23.07	24.12
	12H	18.36	18.86	19.23	19.74	20.80	21.72	22.22	22.58	23.10	24.16
8H	4H	18.70	19.26	19.55	20.12	21.18	21.31	21.86	22.15	22.72	23.78
	6H	18.97	19.44	19.85	20.34	21.39	21.75	22.21	22.62	23.11	24.17
	8H	19.02	19.43	19.90	20.32	21.40	21.90	22.31	22.79	23.21	24.28
	12H	19.01	19.37	19.90	20.26	21.39	22.01	22.37	22.90	23.26	24.39
12H	4H	18.72	19.22	19.59	20.10	21.16	21.28	21.78	22.15	22.66	23.72
	6H	19.04	19.45	19.92	20.34	21.42	21.75	22.16	22.63	23.05	24.13
	8H	19.11	19.47	20.00	20.36	21.49	21.92	22.28	22.81	23.17	24.30