

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: P934096

Luminaire Tested: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934096
REPORT IS A COMBINATION OF REPORTS P933684 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

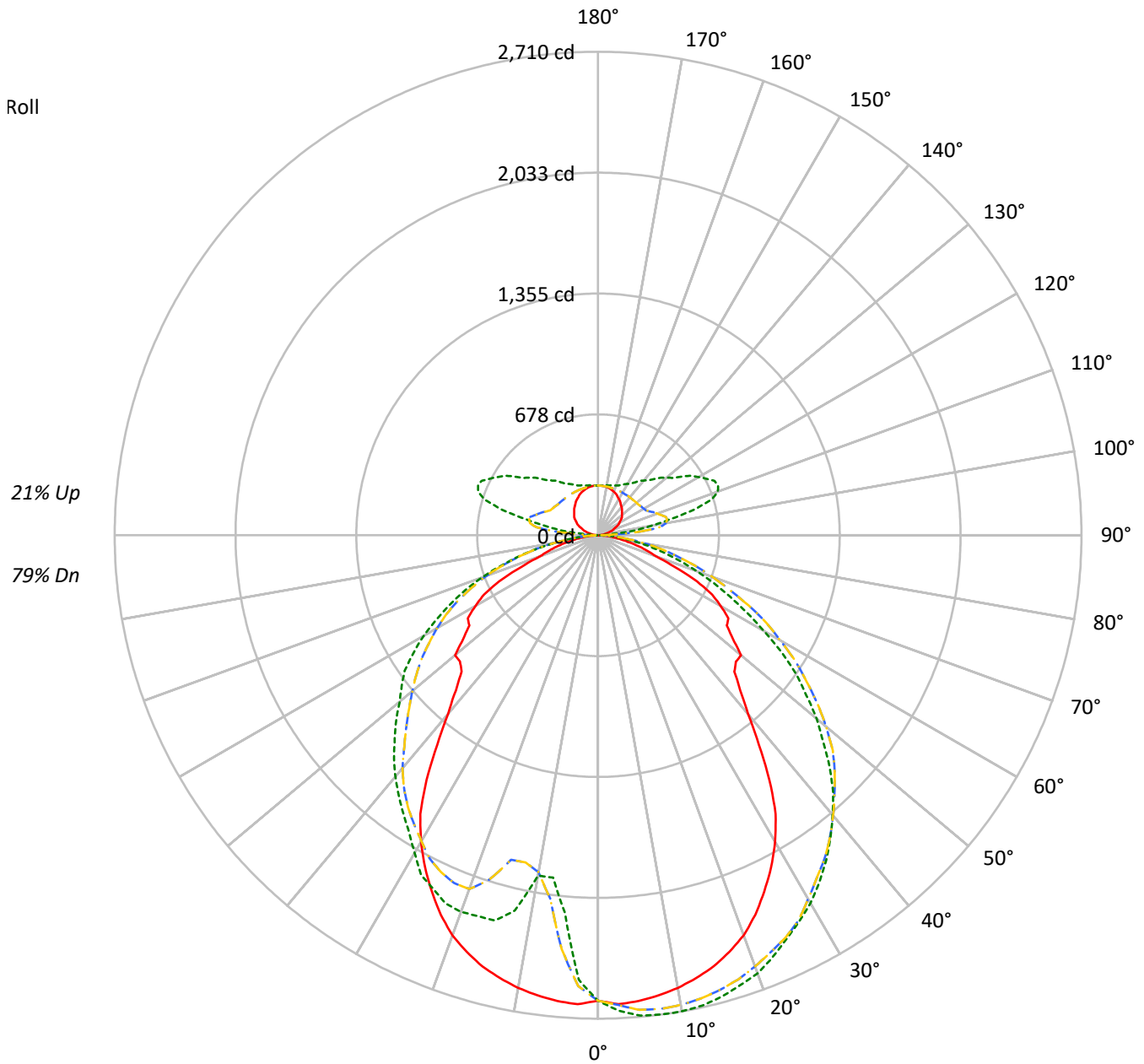
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8572.3 lumens
Efficiency: N/A
Efficacy: 110.5 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: Semi-Direct

Input Watts (W): 77.6
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
RCR																				
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79		
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67		
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56		
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47		
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41		
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35		
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31		
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27		
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24		
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22		
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12104	12104	12104	12104
5°	12194	12218	12194	9607
10°	12112	12035	12112	8604
15°	11981	11775	11981	9832
20°	11731	11466	11731	9853
25°	11217	11015	11217	9644
30°	10554	10641	10554	9186
35°	9409	10168	9409	8681
40°	7840	9611	7840	8301
45°	7005	8959	7005	7863
50°	7443	8182	7443	7424
55°	7002	7344	7002	7170
60°	7218	6237	7218	6567
65°	6544	5156	6544	5763
70°	4531	4109	4531	4831
75°	3973	3037	3973	3637
80°	3201	2008	3201	2187
85°	1840	1063	1840	904

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10737 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.5	2.7
10°-20°	668.6	7.8
20°-30°	1033.5	12.1
30°-40°	1233.8	14.4
40°-50°	1241.1	14.5
50°-60°	1079.9	12.6
60°-70°	765.6	8.9
70°-80°	405.1	4.7
80°-90°	101.9	1.2
90°-100°	135.9	1.6
100°-110°	357.3	4.2
110°-120°	370.4	4.3
120°-130°	297.1	3.5
130°-140°	233.1	2.7
140°-150°	179.0	2.1
150°-160°	128.9	1.5
160°-170°	78.9	0.9
170°-180°	26.6	0.3
0°-30°	1937.6	22.6
0°-40°	3171.5	37.0
0°-60°	5492.4	64.1
0°-90°	6765.1	78.9
90°-120°	863.6	10.1
90°-150°	1572.8	18.3
90°-180°	1807.0	21.1
0°-180°	8572.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2609	2609	2609	2609	2609	
5°	2621	2702	2621	2125	2621	249
15°	2503	2678	2503	2236	2503	704
25°	2204	2498	2204	2187	2204	1012
35°	1676	2229	1676	1903	1676	1037
45°	1081	1836	1081	1612	1081	866
55°	881	1355	881	1323	881	810
65°	612	817	612	913	612	585
75°	232	388	232	464	232	244
85°	40	99	40	84	40	53
90°	2	7	2	7	2	3
95°	18	82	18	82	18	20
105°	64	559	64	559	64	68
115°	114	720	114	720	114	113
125°	159	574	159	574	159	141
135°	190	445	190	445	190	147
145°	220	361	220	361	220	138
155°	248	311	248	311	248	114
165°	268	290	268	290	268	76
175°	279	281	279	281	279	26
180°	279	279	279	279	279	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2631.0	2631.0	2645.7	2650.7	2650.7	2643.3	2635.9	2643.3	2665.5	2672.9	2670.5
5°	2621.1	2640.8	2668.0	2672.9	2677.9	2675.3	2670.5	2675.3	2700.1	2705.1	2707.5
7.5°	2601.4	2638.4	2672.9	2680.3	2687.8	2680.3	2677.9	2682.8	2707.5	2712.4	2712.4
10°	2576.6	2628.5	2668.0	2672.9	2680.3	2672.9	2672.9	2682.8	2707.5	2712.4	2714.9
12.5°	2542.1	2613.7	2650.7	2655.6	2665.5	2663.0	2660.6	2670.5	2695.2	2700.1	2700.1
15°	2502.7	2586.5	2621.1	2626.0	2643.3	2638.4	2638.4	2648.3	2675.3	2682.8	2680.3
17.5°	2448.3	2552.0	2591.5	2598.9	2611.2	2608.8	2611.2	2621.1	2645.7	2650.7	2653.2
20°	2386.7	2505.1	2552.0	2559.3	2571.8	2571.8	2571.8	2584.1	2608.8	2618.7	2618.7
22.5°	2302.7	2455.8	2505.1	2510.0	2524.8	2524.8	2529.7	2547.0	2569.2	2571.8	2571.8
25°	2204.0	2401.4	2443.3	2458.2	2473.0	2480.4	2487.8	2497.7	2505.1	2502.7	2505.1
27.5°	2100.3	2332.3	2386.7	2396.5	2416.3	2423.6	2433.5	2436.0	2438.5	2445.9	2440.9
30°	1984.3	2236.1	2317.5	2327.4	2359.5	2364.4	2354.5	2359.5	2371.8	2376.7	2381.7
32.5°	1853.5	2092.9	2246.0	2268.1	2297.7	2283.0	2280.5	2287.9	2307.6	2307.6	2312.6
35°	1675.8	1981.9	2179.3	2199.0	2221.2	2204.0	2213.9	2216.3	2228.7	2236.1	2233.6
37.5°	1480.9	1885.6	2110.2	2125.0	2142.3	2120.1	2134.8	2142.3	2152.1	2147.3	2147.3
40°	1308.1	1735.1	2028.7	2038.6	2053.4	2036.1	2051.0	2055.9	2060.9	2055.9	2053.4
42.5°	1179.7	1569.7	1942.3	1954.7	1944.9	1957.2	1962.1	1972.0	1964.6	1954.7	1954.7
45°	1081.0	1525.2	1848.6	1863.4	1848.6	1868.4	1875.8	1875.8	1853.5	1848.6	1846.1
47.5°	1049.0	1436.4	1754.8	1754.8	1747.4	1772.1	1784.4	1767.1	1744.9	1737.5	1737.5
50°	1046.5	1337.7	1626.5	1616.6	1651.1	1680.7	1668.4	1651.1	1633.8	1606.7	1606.7
52.5°	950.3	1216.7	1461.1	1498.1	1552.4	1569.7	1550.0	1532.7	1503.1	1490.8	1480.9
55°	881.1	1090.9	1310.6	1384.6	1441.3	1463.6	1426.5	1409.3	1364.9	1357.5	1352.5
57.5°	866.3	908.2	1172.4	1266.1	1335.2	1332.7	1310.6	1278.5	1241.5	1234.0	1231.6
60°	794.7	656.5	1024.2	1135.3	1206.9	1199.4	1179.7	1150.1	1115.6	1110.6	1105.7
62.5°	720.7	476.3	856.4	982.3	1083.4	1081.0	1063.7	1019.3	994.6	982.3	972.4
65°	612.1	399.8	609.6	817.0	962.6	967.4	930.5	898.4	871.2	856.4	854.0
67.5°	466.4	325.8	412.2	681.2	846.6	841.6	794.7	779.9	745.3	738.0	723.1
70°	345.5	217.2	286.3	552.8	733.0	720.7	683.7	666.4	634.3	617.0	607.1
72.5°	286.3	175.2	209.8	429.5	617.0	602.2	570.1	550.4	523.2	508.4	498.6
75°	232.0	185.1	160.5	318.4	501.0	491.2	461.5	441.8	419.6	399.8	402.3
77.5°	170.3	172.8	128.3	234.4	397.3	382.6	365.3	340.6	330.7	311.0	311.0
80°	128.3	135.7	96.3	160.5	286.3	286.3	271.5	254.2	237.0	227.1	227.1
82.5°	86.4	86.4	71.5	101.2	195.0	187.5	177.7	172.8	162.9	157.9	157.9
85°	39.5	49.3	44.5	61.7	106.1	111.1	111.1	106.1	103.7	98.7	101.2
87.5°	12.3	22.2	27.2	34.6	54.3	56.8	59.2	59.2	59.2	61.7	61.7
90°	1.9	3.4	4.9	5.2	8.2	12.2	14.2	12.6	9.4	7.1	7.1
92.5°	7.5	20.2	33.0	36.1	50.8	70.3	80.0	70.1	50.4	35.6	34.2
95°	17.9	41.2	64.5	70.3	124.9	197.6	234.1	208.8	158.5	120.7	116.4
97.5°	31.1	51.7	72.1	77.2	168.2	289.5	350.2	334.4	302.5	278.6	270.5
100°	41.2	59.8	78.4	83.0	184.0	318.6	385.9	387.1	389.5	391.3	381.5
102.5°	49.8	67.2	84.5	88.8	191.3	327.8	396.1	416.4	456.9	487.4	479.0
105°	64.4	79.1	93.9	97.5	196.7	328.9	395.0	440.5	531.4	599.6	595.1
107.5°	79.3	93.0	106.8	110.2	197.6	314.2	372.5	435.9	562.8	658.0	659.1
110°	89.5	101.8	114.2	117.3	196.1	301.2	353.8	424.7	566.6	672.9	677.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	99.4	111.1	122.9	125.9	196.2	289.9	336.8	409.4	554.5	663.4	670.6
115°	114.3	125.2	136.1	138.8	198.0	276.9	316.3	386.3	526.2	631.1	641.0
117.5°	129.1	139.0	148.9	151.4	201.7	268.8	302.3	365.5	491.7	586.4	597.4
120°	137.7	147.0	156.4	158.7	204.7	266.1	296.7	354.4	469.7	556.2	566.8
122.5°	146.1	155.5	164.9	167.3	209.0	264.6	292.4	344.4	448.2	526.1	536.7
125°	159.1	167.7	176.2	178.3	214.8	263.5	287.8	331.9	420.1	486.2	496.0
127.5°	169.5	178.1	186.8	188.9	220.6	262.7	283.8	321.8	397.5	454.3	462.5
130°	175.1	184.5	193.7	196.0	224.8	263.2	282.3	316.1	383.5	434.0	441.6
132.5°	180.9	190.3	199.5	201.8	228.3	263.5	281.0	311.2	371.5	416.8	423.7
135°	189.5	198.0	206.5	208.7	232.0	263.2	278.8	304.1	354.6	392.6	398.4
137.5°	198.3	206.7	215.1	217.2	237.6	264.8	278.4	299.8	342.5	374.5	379.3
140°	205.6	213.3	221.1	223.0	241.1	265.1	277.1	295.6	332.5	360.2	364.6
142.5°	211.3	218.4	225.6	227.3	244.0	266.1	277.1	293.4	325.8	350.1	353.9
145°	219.9	226.1	232.3	233.9	247.7	266.1	275.2	288.5	315.0	334.9	337.8
147.5°	228.5	234.5	240.6	242.1	253.1	267.9	275.2	285.7	306.5	322.1	324.6
150°	234.1	239.6	245.0	246.4	256.0	268.8	275.2	284.0	301.7	314.9	316.8
152.5°	239.9	244.0	248.2	249.2	257.9	269.5	275.2	282.7	297.8	309.1	310.6
155°	248.4	251.5	254.6	255.4	262.0	270.9	275.2	281.2	293.2	302.1	303.1
157.5°	254.8	257.8	260.8	261.5	266.1	272.2	275.2	279.9	289.2	296.2	296.8
160°	259.1	261.4	263.8	264.3	268.0	272.8	275.2	279.3	287.2	293.2	293.6
162.5°	263.4	265.2	266.8	267.3	269.9	273.5	275.2	278.6	285.3	290.4	290.8
165°	268.2	269.7	271.3	271.7	272.9	274.5	275.2	277.7	282.4	286.1	286.5
167.5°	272.4	273.2	273.9	274.1	275.2	276.5	277.1	278.7	281.9	284.2	284.4
170°	275.2	276.0	276.7	276.9	277.0	277.1	277.1	278.7	281.9	284.2	284.2
172.5°	276.7	276.9	277.1	277.1	277.1	277.1	277.1	278.3	280.9	282.7	282.5
175°	278.8	278.8	278.8	278.8	278.2	277.5	277.1	277.9	279.5	280.7	280.7
177.5°	278.8	278.8	278.8	278.8	278.3	277.8	277.5	278.1	279.4	280.3	280.1
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2675.3	2668.0	2675.3	2670.5	2672.9	2665.5	2643.3	2635.9	2643.3	2650.7	2650.7
5°	2707.5	2702.5	2707.5	2707.5	2705.1	2700.1	2675.3	2670.5	2675.3	2677.9	2672.9
7.5°	2717.4	2709.9	2717.4	2712.4	2712.4	2707.5	2682.8	2677.9	2680.3	2687.8	2680.3
10°	2717.4	2709.9	2717.4	2714.9	2712.4	2707.5	2682.8	2672.9	2672.9	2680.3	2672.9
12.5°	2705.1	2700.1	2705.1	2700.1	2700.1	2695.2	2670.5	2660.6	2663.0	2665.5	2655.6
15°	2685.2	2677.9	2685.2	2680.3	2682.8	2675.3	2648.3	2638.4	2638.4	2643.3	2626.0
17.5°	2655.6	2645.7	2655.6	2653.2	2650.7	2645.7	2621.1	2611.2	2608.8	2611.2	2598.9
20°	2621.1	2613.7	2621.1	2618.7	2618.7	2608.8	2584.1	2571.8	2571.8	2571.8	2559.3
22.5°	2566.8	2559.3	2566.8	2571.8	2571.8	2569.2	2547.0	2529.7	2524.8	2524.8	2510.0
25°	2505.1	2497.7	2505.1	2505.1	2502.7	2505.1	2497.7	2487.8	2480.4	2473.0	2458.2
27.5°	2445.9	2440.9	2445.9	2440.9	2445.9	2438.5	2436.0	2433.5	2423.6	2416.3	2396.5
30°	2386.7	2381.7	2386.7	2381.7	2376.7	2371.8	2359.5	2354.5	2364.4	2359.5	2327.4
32.5°	2312.6	2307.6	2312.6	2312.6	2307.6	2307.6	2287.9	2280.5	2283.0	2297.7	2268.1
35°	2236.1	2228.7	2236.1	2233.6	2236.1	2228.7	2216.3	2213.9	2204.0	2221.2	2199.0
37.5°	2147.3	2139.8	2147.3	2147.3	2147.3	2152.1	2142.3	2134.8	2120.1	2142.3	2125.0
40°	2055.9	2046.0	2055.9	2053.4	2055.9	2060.9	2055.9	2051.0	2036.1	2053.4	2038.6
42.5°	1952.2	1949.8	1952.2	1954.7	1954.7	1964.6	1972.0	1962.1	1957.2	1944.9	1954.7
45°	1841.2	1836.2	1841.2	1846.1	1848.6	1853.5	1875.8	1875.8	1868.4	1848.6	1863.4
47.5°	1722.7	1710.3	1722.7	1737.5	1737.5	1744.9	1767.1	1784.4	1772.1	1747.4	1754.8
50°	1596.9	1599.3	1596.9	1606.7	1606.7	1633.8	1651.1	1668.4	1680.7	1651.1	1616.6
52.5°	1473.5	1471.0	1473.5	1480.9	1490.8	1503.1	1532.7	1550.0	1569.7	1552.4	1498.1
55°	1350.0	1355.0	1350.0	1352.5	1357.5	1364.9	1409.3	1426.5	1463.6	1441.3	1384.6
57.5°	1226.6	1219.2	1226.6	1231.6	1234.0	1241.5	1278.5	1310.6	1332.7	1335.2	1266.1
60°	1083.4	1073.6	1083.4	1105.7	1110.6	1115.6	1150.1	1179.7	1199.4	1206.9	1135.3
62.5°	957.6	940.4	957.6	972.4	982.3	994.6	1019.3	1063.7	1081.0	1083.4	982.3
65°	824.3	817.0	824.3	854.0	856.4	871.2	898.4	930.5	967.4	962.6	817.0
67.5°	703.4	703.4	703.4	723.1	738.0	745.3	779.9	794.7	841.6	846.6	681.2
70°	592.3	589.9	592.3	607.1	617.0	634.3	666.4	683.7	720.7	733.0	552.8
72.5°	486.2	483.7	486.2	498.6	508.4	523.2	550.4	570.1	602.2	617.0	429.5
75°	392.5	387.5	392.5	402.3	399.8	419.6	441.8	461.5	491.2	501.0	318.4
77.5°	301.1	301.1	301.1	311.0	311.0	330.7	340.6	365.3	382.6	397.3	234.4
80°	224.6	222.1	224.6	227.1	227.1	237.0	254.2	271.5	286.3	286.3	160.5
82.5°	157.9	153.0	157.9	157.9	157.9	162.9	172.8	177.7	187.5	195.0	101.2
85°	98.7	98.7	98.7	101.2	98.7	103.7	106.1	111.1	111.1	106.1	61.7
87.5°	64.2	61.7	64.2	61.7	61.7	59.2	59.2	59.2	56.8	54.3	34.6
90°	7.1	7.1	7.1	7.1	7.1	9.4	12.6	14.2	12.2	8.2	5.2
92.5°	28.5	22.8	28.5	34.2	35.6	50.4	70.1	80.0	70.3	50.8	36.1
95°	99.3	82.1	99.3	116.4	120.7	158.5	208.8	234.1	197.6	124.9	70.3
97.5°	237.8	205.2	237.8	270.5	278.6	302.5	334.4	350.2	289.5	168.2	77.2
100°	342.7	303.8	342.7	381.5	391.3	389.5	387.1	385.9	318.6	184.0	83.0
102.5°	445.8	412.5	445.8	479.0	487.4	456.9	416.4	396.1	327.8	191.3	88.8
105°	577.3	559.4	577.3	595.1	599.6	531.4	440.5	395.0	328.9	196.7	97.5
107.5°	663.4	667.7	663.4	659.1	658.0	562.8	435.9	372.5	314.2	197.6	110.2
110°	696.2	714.9	696.2	677.6	672.9	566.6	424.7	353.8	301.2	196.1	117.3



TEST NUMBER: P934096

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	699.2	727.8	699.2	670.6	663.4	554.5	409.4	336.8	289.9	196.2	125.9
115°	680.7	720.3	680.7	641.0	631.1	526.2	386.3	316.3	276.9	198.0	138.8
117.5°	641.4	685.4	641.4	597.4	586.4	491.7	365.5	302.3	268.8	201.7	151.4
120°	609.6	652.4	609.6	566.8	556.2	469.7	354.4	296.7	266.1	204.7	158.7
122.5°	578.8	620.9	578.8	536.7	526.1	448.2	344.4	292.4	264.6	209.0	167.3
125°	534.8	573.7	534.8	496.0	486.2	420.1	331.9	287.8	263.5	214.8	178.3
127.5°	495.2	528.0	495.2	462.5	454.3	397.5	321.8	283.8	262.7	220.6	188.9
130°	471.9	502.1	471.9	441.6	434.0	383.5	316.1	282.3	263.2	224.8	196.0
132.5°	450.7	477.8	450.7	423.7	416.8	371.5	311.2	281.0	263.5	228.3	201.8
135°	421.7	445.1	421.7	398.4	392.6	354.6	304.1	278.8	263.2	232.0	208.7
137.5°	398.4	417.6	398.4	379.3	374.5	342.5	299.8	278.4	264.8	237.6	217.2
140°	382.5	400.4	382.5	364.6	360.2	332.5	295.6	277.1	265.1	241.1	223.0
142.5°	369.3	384.6	369.3	353.9	350.1	325.8	293.4	277.1	266.1	244.0	227.3
145°	349.5	361.1	349.5	337.8	334.9	315.0	288.5	275.2	266.1	247.7	233.9
147.5°	334.2	343.9	334.2	324.6	322.1	306.5	285.7	275.2	267.9	253.1	242.1
150°	324.7	332.5	324.7	316.8	314.9	301.7	284.0	275.2	268.8	256.0	246.4
152.5°	316.4	322.3	316.4	310.6	309.1	297.8	282.7	275.2	269.5	257.9	249.2
155°	307.0	310.9	307.0	303.1	302.1	293.2	281.2	275.2	270.9	262.0	255.4
157.5°	299.6	302.3	299.6	296.8	296.2	289.2	279.9	275.2	272.2	266.1	261.5
160°	295.1	296.7	295.1	293.6	293.2	287.2	279.3	275.2	272.8	268.0	264.3
162.5°	292.2	293.7	292.2	290.8	290.4	285.3	278.6	275.2	273.5	269.9	267.3
165°	288.0	289.6	288.0	286.5	286.1	282.4	277.7	275.2	274.5	272.9	271.7
167.5°	285.1	285.7	285.1	284.4	284.2	281.9	278.7	277.1	276.5	275.2	274.1
170°	284.2	284.2	284.2	284.2	284.2	281.9	278.7	277.1	277.1	277.0	276.9
172.5°	282.0	281.4	282.0	282.5	282.7	280.9	278.3	277.1	277.1	277.1	277.1
175°	280.7	280.7	280.7	280.7	280.7	279.5	277.9	277.1	277.5	278.2	278.8
177.5°	279.5	278.8	279.5	280.1	280.3	279.4	278.1	277.5	277.8	278.3	278.8
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8



TEST NUMBER: P934096

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2645.7	2631.0	2631.0	2606.3	2596.4	2589.0	2576.6	2539.6	2529.7	2519.9	2534.7
5°	2668.0	2640.8	2621.1	2576.6	2539.6	2524.8	2477.9	2389.1	2329.9	2285.4	2260.7
7.5°	2672.9	2638.4	2601.4	2532.3	2443.3	2403.9	2260.7	2097.9	2053.4	2014.0	1989.2
10°	2668.0	2628.5	2576.6	2473.0	2263.2	2194.2	2051.0	1944.9	1917.7	1910.3	1917.7
12.5°	2650.7	2613.7	2542.1	2369.4	2075.6	2028.7	1944.9	1883.1	1878.2	1890.5	1957.2
15°	2621.1	2586.5	2502.7	2231.1	1972.0	1937.4	1878.2	1856.0	1883.1	1969.5	2169.4
17.5°	2591.5	2552.0	2448.3	2095.4	1893.0	1868.4	1826.3	1870.8	2023.8	2139.8	2206.5
20°	2552.0	2505.1	2386.7	1996.7	1836.2	1814.0	1794.3	1994.2	2110.2	2152.1	2189.2
22.5°	2505.1	2455.8	2302.7	1927.6	1777.0	1759.7	1772.1	2063.3	2110.2	2139.8	2171.9
25°	2443.3	2401.4	2204.0	1873.2	1730.1	1710.3	1757.2	2055.9	2083.0	2090.5	2154.6
27.5°	2386.7	2332.3	2100.3	1823.9	1673.4	1666.0	1769.6	2023.8	2043.6	2051.0	2120.1
30°	2317.5	2236.1	1984.3	1772.1	1614.1	1611.6	1772.1	1984.3	1979.4	1999.1	2068.2
32.5°	2246.0	2092.9	1853.5	1707.9	1557.4	1554.9	1754.8	1925.1	1920.1	1947.3	1999.1
35°	2179.3	1981.9	1675.8	1633.8	1485.8	1488.2	1712.9	1856.0	1858.5	1883.1	1915.3
37.5°	2110.2	1885.6	1480.9	1552.4	1416.7	1416.7	1656.1	1791.8	1786.9	1794.3	1838.7
40°	2028.7	1735.1	1308.1	1446.3	1352.5	1345.1	1587.0	1722.7	1705.4	1703.0	1764.7
42.5°	1942.3	1569.7	1179.7	1305.6	1278.5	1268.6	1503.1	1638.8	1606.7	1614.1	1693.1
45°	1848.6	1525.2	1081.0	1103.2	1202.0	1194.6	1411.7	1542.5	1520.4	1540.1	1621.5
47.5°	1754.8	1436.4	1049.0	915.7	1120.5	1118.0	1310.6	1448.7	1436.4	1456.2	1542.5
50°	1626.5	1337.7	1046.5	784.8	1029.2	1039.1	1189.6	1357.5	1357.5	1374.8	1466.0
52.5°	1461.1	1216.7	950.3	710.8	923.1	952.7	1083.4	1278.5	1283.4	1300.7	1382.1
55°	1310.6	1090.9	881.1	654.1	797.2	861.3	979.9	1197.0	1206.9	1224.2	1298.2
57.5°	1172.4	908.2	866.3	587.4	681.2	742.9	888.5	1118.0	1122.9	1137.8	1209.3
60°	1024.2	656.5	794.7	515.8	580.0	626.9	804.5	1024.2	1041.5	1051.4	1113.1
62.5°	856.4	476.3	720.7	466.4	530.6	540.5	735.5	935.4	957.6	965.0	1002.0
65°	609.6	399.8	612.1	424.5	478.8	481.3	661.5	844.1	863.9	876.2	903.3
67.5°	412.2	325.8	466.4	385.0	439.4	441.8	589.9	738.0	765.1	774.9	792.2
70°	286.3	217.2	345.5	343.1	394.9	399.8	513.3	641.7	666.4	673.8	683.7
72.5°	209.8	175.2	286.3	308.5	348.0	353.0	434.4	533.1	557.8	565.2	570.1
75°	160.5	185.1	232.0	269.0	296.2	298.6	355.4	434.4	451.7	456.6	459.1
77.5°	128.3	172.8	170.3	217.2	241.9	237.0	278.9	335.7	350.4	350.4	350.4
80°	96.3	135.7	128.3	155.5	177.7	172.8	199.9	239.4	244.3	249.3	246.8
82.5°	71.5	86.4	86.4	98.7	118.4	113.6	133.3	155.5	155.5	155.5	160.5
85°	44.5	49.3	39.5	51.8	66.6	64.2	74.1	83.9	86.4	86.4	81.4
87.5°	27.2	22.2	12.3	19.7	29.6	29.6	34.6	37.0	34.6	34.6	34.6
90°	4.9	3.4	1.9	3.4	4.9	5.2	8.2	12.2	14.2	12.6	9.4
92.5°	33.0	20.2	7.5	20.2	33.0	36.1	50.8	70.3	80.0	70.1	50.4
95°	64.5	41.2	17.9	41.2	64.5	70.3	124.9	197.6	234.1	208.8	158.5
97.5°	72.1	51.7	31.1	51.7	72.1	77.2	168.2	289.5	350.2	334.4	302.5
100°	78.4	59.8	41.2	59.8	78.4	83.0	184.0	318.6	385.9	387.1	389.5
102.5°	84.5	67.2	49.8	67.2	84.5	88.8	191.3	327.8	396.1	416.4	456.9
105°	93.9	79.1	64.4	79.1	93.9	97.5	196.7	328.9	395.0	440.5	531.4
107.5°	106.8	93.0	79.3	93.0	106.8	110.2	197.6	314.2	372.5	435.9	562.8
110°	114.2	101.8	89.5	101.8	114.2	117.3	196.1	301.2	353.8	424.7	566.6



TEST NUMBER: P934096

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	122.9	111.1	99.4	111.1	122.9	125.9	196.2	289.9	336.8	409.4	554.5
115°	136.1	125.2	114.3	125.2	136.1	138.8	198.0	276.9	316.3	386.3	526.2
117.5°	148.9	139.0	129.1	139.0	148.9	151.4	201.7	268.8	302.3	365.5	491.7
120°	156.4	147.0	137.7	147.0	156.4	158.7	204.7	266.1	296.7	354.4	469.7
122.5°	164.9	155.5	146.1	155.5	164.9	167.3	209.0	264.6	292.4	344.4	448.2
125°	176.2	167.7	159.1	167.7	176.2	178.3	214.8	263.5	287.8	331.9	420.1
127.5°	186.8	178.1	169.5	178.1	186.8	188.9	220.6	262.7	283.8	321.8	397.5
130°	193.7	184.5	175.1	184.5	193.7	196.0	224.8	263.2	282.3	316.1	383.5
132.5°	199.5	190.3	180.9	190.3	199.5	201.8	228.3	263.5	281.0	311.2	371.5
135°	206.5	198.0	189.5	198.0	206.5	208.7	232.0	263.2	278.8	304.1	354.6
137.5°	215.1	206.7	198.3	206.7	215.1	217.2	237.6	264.8	278.4	299.8	342.5
140°	221.1	213.3	205.6	213.3	221.1	223.0	241.1	265.1	277.1	295.6	332.5
142.5°	225.6	218.4	211.3	218.4	225.6	227.3	244.0	266.1	277.1	293.4	325.8
145°	232.3	226.1	219.9	226.1	232.3	233.9	247.7	266.1	275.2	288.5	315.0
147.5°	240.6	234.5	228.5	234.5	240.6	242.1	253.1	267.9	275.2	285.7	306.5
150°	245.0	239.6	234.1	239.6	245.0	246.4	256.0	268.8	275.2	284.0	301.7
152.5°	248.2	244.0	239.9	244.0	248.2	249.2	257.9	269.5	275.2	282.7	297.8
155°	254.6	251.5	248.4	251.5	254.6	255.4	262.0	270.9	275.2	281.2	293.2
157.5°	260.8	257.8	254.8	257.8	260.8	261.5	266.1	272.2	275.2	279.9	289.2
160°	263.8	261.4	259.1	261.4	263.8	264.3	268.0	272.8	275.2	279.3	287.2
162.5°	266.8	265.2	263.4	265.2	266.8	267.3	269.9	273.5	275.2	278.6	285.3
165°	271.3	269.7	268.2	269.7	271.3	271.7	272.9	274.5	275.2	277.7	282.4
167.5°	273.9	273.2	272.4	273.2	273.9	274.1	275.2	276.5	277.1	278.7	281.9
170°	276.7	276.0	275.2	276.0	276.7	276.9	277.0	277.1	277.1	278.7	281.9
172.5°	277.1	276.9	276.7	276.9	277.1	277.1	277.1	277.1	277.1	278.3	280.9
175°	278.8	278.8	278.8	278.8	278.8	278.8	278.2	277.5	277.1	277.9	279.5
177.5°	278.8	278.8	278.8	278.8	278.8	278.8	278.3	277.8	277.5	278.1	279.4
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8



TEST NUMBER: P934096

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2517.4	2510.0	2519.9	2492.8	2519.9	2510.0	2517.4	2534.7	2519.9	2529.7	2539.6
5°	2208.9	2196.6	2157.1	2125.0	2157.1	2196.6	2208.9	2260.7	2285.4	2329.9	2389.1
7.5°	1974.5	1964.6	1954.7	1935.0	1954.7	1964.6	1974.5	1989.2	2014.0	2053.4	2097.9
10°	1922.6	1925.1	1939.9	1937.4	1939.9	1925.1	1922.6	1917.7	1910.3	1917.7	1944.9
12.5°	2055.9	2078.2	2159.6	2154.6	2159.6	2078.2	2055.9	1957.2	1890.5	1878.2	1883.1
15°	2208.9	2216.3	2233.6	2236.1	2233.6	2216.3	2208.9	2169.4	1969.5	1883.1	1856.0
17.5°	2223.8	2226.2	2238.5	2238.5	2238.5	2226.2	2223.8	2206.5	2139.8	2023.8	1870.8
20°	2211.4	2216.3	2241.0	2246.0	2241.0	2216.3	2211.4	2189.2	2152.1	2110.2	1994.2
22.5°	2206.5	2216.3	2236.1	2233.6	2236.1	2216.3	2206.5	2171.9	2139.8	2110.2	2063.3
25°	2181.7	2181.7	2184.3	2186.7	2184.3	2181.7	2181.7	2154.6	2090.5	2083.0	2055.9
27.5°	2130.0	2134.8	2149.7	2147.3	2149.7	2134.8	2130.0	2120.1	2051.0	2043.6	2023.8
30°	2083.0	2078.2	2065.7	2055.9	2065.7	2078.2	2083.0	2068.2	1999.1	1979.4	1984.3
32.5°	2004.1	1991.8	1979.4	1972.0	1979.4	1991.8	2004.1	1999.1	1947.3	1920.1	1925.1
35°	1910.3	1912.7	1910.3	1902.8	1910.3	1912.7	1910.3	1915.3	1883.1	1858.5	1856.0
37.5°	1843.6	1848.6	1846.1	1836.2	1846.1	1848.6	1843.6	1838.7	1794.3	1786.9	1791.8
40°	1774.5	1777.0	1774.5	1767.1	1774.5	1777.0	1774.5	1764.7	1703.0	1705.4	1722.7
42.5°	1707.9	1705.4	1698.0	1693.1	1698.0	1705.4	1707.9	1693.1	1614.1	1606.7	1638.8
45°	1631.4	1633.8	1619.1	1611.6	1619.1	1633.8	1631.4	1621.5	1540.1	1520.4	1542.5
47.5°	1554.9	1554.9	1542.5	1535.1	1542.5	1554.9	1554.9	1542.5	1456.2	1436.4	1448.7
50°	1473.5	1471.0	1453.7	1451.2	1453.7	1471.0	1473.5	1466.0	1374.8	1357.5	1357.5
52.5°	1379.6	1379.6	1382.1	1387.1	1382.1	1379.6	1379.6	1382.1	1300.7	1283.4	1278.5
55°	1298.2	1300.7	1318.0	1322.9	1318.0	1300.7	1298.2	1298.2	1224.2	1206.9	1197.0
57.5°	1214.3	1214.3	1226.6	1226.6	1226.6	1214.3	1214.3	1209.3	1137.8	1122.9	1118.0
60°	1118.0	1122.9	1132.8	1130.4	1132.8	1122.9	1118.0	1113.1	1051.4	1041.5	1024.2
62.5°	1016.8	1021.8	1024.2	1019.3	1024.2	1021.8	1016.8	1002.0	965.0	957.6	935.4
65°	910.7	915.7	918.1	913.2	918.1	915.7	910.7	903.3	876.2	863.9	844.1
67.5°	802.1	799.7	797.2	807.1	797.2	799.7	802.1	792.2	774.9	765.1	738.0
70°	691.1	691.1	688.5	693.5	688.5	691.1	691.1	683.7	673.8	666.4	641.7
72.5°	572.6	570.1	580.0	572.6	580.0	570.1	572.6	570.1	565.2	557.8	533.1
75°	456.6	461.5	456.6	464.0	456.6	461.5	456.6	459.1	456.6	451.7	434.4
77.5°	348.0	353.0	348.0	348.0	348.0	353.0	348.0	350.4	350.4	350.4	335.7
80°	246.8	244.3	244.3	241.9	244.3	244.3	246.8	246.8	249.3	244.3	239.4
82.5°	157.9	155.5	155.5	160.5	155.5	155.5	157.9	160.5	155.5	155.5	155.5
85°	86.4	88.8	83.9	83.9	83.9	88.8	86.4	81.4	86.4	86.4	83.9
87.5°	32.1	29.6	29.6	29.6	29.6	29.6	32.1	34.6	34.6	34.6	37.0
90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.4	12.6	14.2	12.2
92.5°	35.6	34.2	28.5	22.8	28.5	34.2	35.6	50.4	70.1	80.0	70.3
95°	120.7	116.4	99.3	82.1	99.3	116.4	120.7	158.5	208.8	234.1	197.6
97.5°	278.6	270.5	237.8	205.2	237.8	270.5	278.6	302.5	334.4	350.2	289.5
100°	391.3	381.5	342.7	303.8	342.7	381.5	391.3	389.5	387.1	385.9	318.6
102.5°	487.4	479.0	445.8	412.5	445.8	479.0	487.4	456.9	416.4	396.1	327.8
105°	599.6	595.1	577.3	559.4	577.3	595.1	599.6	531.4	440.5	395.0	328.9
107.5°	658.0	659.1	663.4	667.7	663.4	659.1	658.0	562.8	435.9	372.5	314.2
110°	672.9	677.6	696.2	714.9	696.2	677.6	672.9	566.6	424.7	353.8	301.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	663.4	670.6	699.2	727.8	699.2	670.6	663.4	554.5	409.4	336.8	289.9
115°	631.1	641.0	680.7	720.3	680.7	641.0	631.1	526.2	386.3	316.3	276.9
117.5°	586.4	597.4	641.4	685.4	641.4	597.4	586.4	491.7	365.5	302.3	268.8
120°	556.2	566.8	609.6	652.4	609.6	566.8	556.2	469.7	354.4	296.7	266.1
122.5°	526.1	536.7	578.8	620.9	578.8	536.7	526.1	448.2	344.4	292.4	264.6
125°	486.2	496.0	534.8	573.7	534.8	496.0	486.2	420.1	331.9	287.8	263.5
127.5°	454.3	462.5	495.2	528.0	495.2	462.5	454.3	397.5	321.8	283.8	262.7
130°	434.0	441.6	471.9	502.1	471.9	441.6	434.0	383.5	316.1	282.3	263.2
132.5°	416.8	423.7	450.7	477.8	450.7	423.7	416.8	371.5	311.2	281.0	263.5
135°	392.6	398.4	421.7	445.1	421.7	398.4	392.6	354.6	304.1	278.8	263.2
137.5°	374.5	379.3	398.4	417.6	398.4	379.3	374.5	342.5	299.8	278.4	264.8
140°	360.2	364.6	382.5	400.4	382.5	364.6	360.2	332.5	295.6	277.1	265.1
142.5°	350.1	353.9	369.3	384.6	369.3	353.9	350.1	325.8	293.4	277.1	266.1
145°	334.9	337.8	349.5	361.1	349.5	337.8	334.9	315.0	288.5	275.2	266.1
147.5°	322.1	324.6	334.2	343.9	334.2	324.6	322.1	306.5	285.7	275.2	267.9
150°	314.9	316.8	324.7	332.5	324.7	316.8	314.9	301.7	284.0	275.2	268.8
152.5°	309.1	310.6	316.4	322.3	316.4	310.6	309.1	297.8	282.7	275.2	269.5
155°	302.1	303.1	307.0	310.9	307.0	303.1	302.1	293.2	281.2	275.2	270.9
157.5°	296.2	296.8	299.6	302.3	299.6	296.8	296.2	289.2	279.9	275.2	272.2
160°	293.2	293.6	295.1	296.7	295.1	293.6	293.2	287.2	279.3	275.2	272.8
162.5°	290.4	290.8	292.2	293.7	292.2	290.8	290.4	285.3	278.6	275.2	273.5
165°	286.1	286.5	288.0	289.6	288.0	286.5	286.1	282.4	277.7	275.2	274.5
167.5°	284.2	284.4	285.1	285.7	285.1	284.4	284.2	281.9	278.7	277.1	276.5
170°	284.2	284.2	284.2	284.2	284.2	284.2	284.2	281.9	278.7	277.1	277.1
172.5°	282.7	282.5	282.0	281.4	282.0	282.5	282.7	280.9	278.3	277.1	277.1
175°	280.7	280.7	280.7	280.7	280.7	280.7	280.7	279.5	277.9	277.1	277.5
177.5°	280.3	280.1	279.5	278.8	279.5	280.1	280.3	279.4	278.1	277.5	277.8
180°	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8	278.8



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2608.8	2608.8	2608.8	2608.8	2608.8
2.5°	2576.6	2589.0	2596.4	2606.3	2631.0
5°	2477.9	2524.8	2539.6	2576.6	2621.1
7.5°	2260.7	2403.9	2443.3	2532.3	2601.4
10°	2051.0	2194.2	2263.2	2473.0	2576.6
12.5°	1944.9	2028.7	2075.6	2369.4	2542.1
15°	1878.2	1937.4	1972.0	2231.1	2502.7
17.5°	1826.3	1868.4	1893.0	2095.4	2448.3
20°	1794.3	1814.0	1836.2	1996.7	2386.7
22.5°	1772.1	1759.7	1777.0	1927.6	2302.7
25°	1757.2	1710.3	1730.1	1873.2	2204.0
27.5°	1769.6	1666.0	1673.4	1823.9	2100.3
30°	1772.1	1611.6	1614.1	1772.1	1984.3
32.5°	1754.8	1554.9	1557.4	1707.9	1853.5
35°	1712.9	1488.2	1485.8	1633.8	1675.8
37.5°	1656.1	1416.7	1416.7	1552.4	1480.9
40°	1587.0	1345.1	1352.5	1446.3	1308.1
42.5°	1503.1	1268.6	1278.5	1305.6	1179.7
45°	1411.7	1194.6	1202.0	1103.2	1081.0
47.5°	1310.6	1118.0	1120.5	915.7	1049.0
50°	1189.6	1039.1	1029.2	784.8	1046.5
52.5°	1083.4	952.7	923.1	710.8	950.3
55°	979.9	861.3	797.2	654.1	881.1
57.5°	888.5	742.9	681.2	587.4	866.3
60°	804.5	626.9	580.0	515.8	794.7
62.5°	735.5	540.5	530.6	466.4	720.7
65°	661.5	481.3	478.8	424.5	612.1
67.5°	589.9	441.8	439.4	385.0	466.4
70°	513.3	399.8	394.9	343.1	345.5
72.5°	434.4	353.0	348.0	308.5	286.3
75°	355.4	298.6	296.2	269.0	232.0
77.5°	278.9	237.0	241.9	217.2	170.3
80°	199.9	172.8	177.7	155.5	128.3
82.5°	133.3	113.6	118.4	98.7	86.4
85°	74.1	64.2	66.6	51.8	39.5
87.5°	34.6	29.6	29.6	19.7	12.3
90°	8.2	5.2	4.9	3.4	1.9
92.5°	50.8	36.1	33.0	20.2	7.5
95°	124.9	70.3	64.5	41.2	17.9
97.5°	168.2	77.2	72.1	51.7	31.1
100°	184.0	83.0	78.4	59.8	41.2
102.5°	191.3	88.8	84.5	67.2	49.8
105°	196.7	97.5	93.9	79.1	64.4
107.5°	197.6	110.2	106.8	93.0	79.3
110°	196.1	117.3	114.2	101.8	89.5



TEST NUMBER: P934096

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	196.2	125.9	122.9	111.1	99.4
115°	198.0	138.8	136.1	125.2	114.3
117.5°	201.7	151.4	148.9	139.0	129.1
120°	204.7	158.7	156.4	147.0	137.7
122.5°	209.0	167.3	164.9	155.5	146.1
125°	214.8	178.3	176.2	167.7	159.1
127.5°	220.6	188.9	186.8	178.1	169.5
130°	224.8	196.0	193.7	184.5	175.1
132.5°	228.3	201.8	199.5	190.3	180.9
135°	232.0	208.7	206.5	198.0	189.5
137.5°	237.6	217.2	215.1	206.7	198.3
140°	241.1	223.0	221.1	213.3	205.6
142.5°	244.0	227.3	225.6	218.4	211.3
145°	247.7	233.9	232.3	226.1	219.9
147.5°	253.1	242.1	240.6	234.5	228.5
150°	256.0	246.4	245.0	239.6	234.1
152.5°	257.9	249.2	248.2	244.0	239.9
155°	262.0	255.4	254.6	251.5	248.4
157.5°	266.1	261.5	260.8	257.8	254.8
160°	268.0	264.3	263.8	261.4	259.1
162.5°	269.9	267.3	266.8	265.2	263.4
165°	272.9	271.7	271.3	269.7	268.2
167.5°	275.2	274.1	273.9	273.2	272.4
170°	277.0	276.9	276.7	276.0	275.2
172.5°	277.1	277.1	277.1	276.9	276.7
175°	278.2	278.8	278.8	278.8	278.8
177.5°	278.3	278.8	278.8	278.8	278.8
180°	278.8	278.8	278.8	278.8	278.8



TEST NUMBER: P934096
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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	15.81	17.00	16.47	17.68	18.47	18.64	19.84	19.30	20.52	21.31
	3H	16.31	17.38	16.98	18.07	18.89	20.02	21.09	20.69	21.78	22.60
	4H	16.51	17.53	17.21	18.23	19.06	20.48	21.49	21.17	22.19	23.03
	6H	16.65	17.59	17.36	18.30	19.15	20.78	21.72	21.49	22.43	23.28
	8H	16.66	17.55	17.38	18.28	19.14	20.87	21.76	21.58	22.49	23.34
	12H	16.64	17.50	17.37	18.22	19.10	20.92	21.77	21.64	22.49	23.37
4H	2H	16.88	17.90	17.58	18.59	19.43	19.09	20.11	19.79	20.81	21.64
	3H	17.94	18.78	18.65	19.52	20.37	20.63	21.48	21.34	22.21	23.07
	4H	18.23	19.00	18.95	19.74	20.62	21.17	21.94	21.90	22.68	23.56
	6H	18.37	19.04	19.12	19.80	20.69	21.56	22.23	22.31	22.99	23.88
	8H	18.39	19.01	19.14	19.77	20.67	21.68	22.30	22.43	23.06	23.96
	12H	18.37	18.93	19.14	19.71	20.62	21.75	22.31	22.52	23.09	24.00
8H	4H	18.71	19.33	19.46	20.09	21.00	21.33	21.95	22.08	22.71	23.61
	6H	18.98	19.50	19.77	20.30	21.21	21.78	22.29	22.56	23.10	24.00
	8H	19.03	19.49	19.82	20.29	21.21	21.93	22.39	22.73	23.20	24.12
	12H	19.03	19.43	19.82	20.23	21.21	22.05	22.45	22.84	23.25	24.23
12H	4H	18.73	19.29	19.50	20.08	20.98	21.31	21.87	22.08	22.65	23.56
	6H	19.05	19.51	19.84	20.31	21.23	21.78	22.24	22.57	23.04	23.96
	8H	19.13	19.54	19.93	20.33	21.31	21.96	22.36	22.75	23.15	24.13