

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: P934068

Luminaire Tested: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934068
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-93050-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

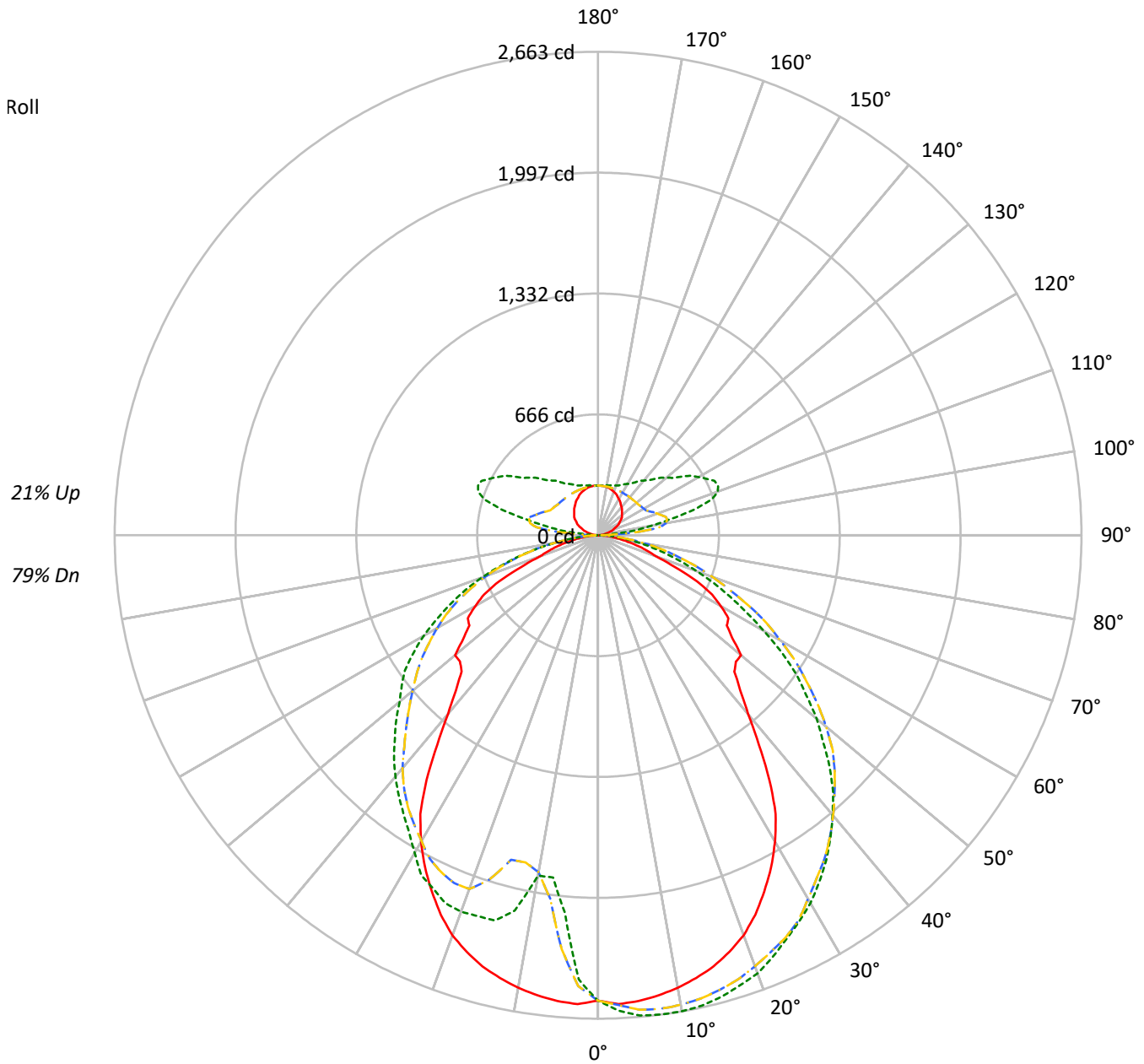
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8422.7 lumens
Efficiency: N/A
Efficacy: 108.5 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	0
RCR																					
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79			79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67			67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56			56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47			47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41			41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35			35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31			31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27			27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24			24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22			22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20			20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11892	11892	11892	11892
5°	11981	12005	11981	9439
10°	11901	11825	11901	8454
15°	11772	11569	11772	9661
20°	11526	11266	11526	9681
25°	11021	10823	11021	9475
30°	10370	10455	10370	9025
35°	9245	9991	9245	8530
40°	7703	9443	7703	8156
45°	6883	8803	6883	7726
50°	7313	8039	7313	7294
55°	6881	7215	6881	7045
60°	7093	6128	7093	6453
65°	6430	5066	6430	5662
70°	4453	4037	4453	4747
75°	3905	2985	3905	3574
80°	3146	1973	3146	2149
85°	1807	1045	1807	888

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10549 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.4	2.7
10°-20°	656.9	7.8
20°-30°	1015.5	12.1
30°-40°	1212.3	14.4
40°-50°	1219.4	14.5
50°-60°	1061.0	12.6
60°-70°	752.3	8.9
70°-80°	398.0	4.7
80°-90°	100.2	1.2
90°-100°	133.5	1.6
100°-110°	351.0	4.2
110°-120°	364.0	4.3
120°-130°	292.0	3.5
130°-140°	229.1	2.7
140°-150°	175.8	2.1
150°-160°	126.6	1.5
160°-170°	77.5	0.9
170°-180°	26.2	0.3
0°-30°	1903.8	22.6
0°-40°	3116.1	37.0
0°-60°	5396.5	64.1
0°-90°	6647.0	78.9
90°-120°	848.5	10.1
90°-150°	1545.4	18.3
90°-180°	1776.0	21.1
0°-180°	8422.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2563	2563	2563	2563	2563	
5°	2575	2655	2575	2088	2575	244
15°	2459	2631	2459	2197	2459	692
25°	2166	2454	2166	2148	2166	994
35°	1646	2190	1646	1870	1646	1019
45°	1062	1804	1062	1584	1062	851
55°	866	1331	866	1300	866	796
65°	601	803	601	897	601	575
75°	228	381	228	456	228	240
85°	39	97	39	82	39	52
90°	2	7	2	7	2	3
95°	18	81	18	81	18	20
105°	63	550	63	550	63	67
115°	112	708	112	708	112	111
125°	156	564	156	564	156	139
135°	186	437	186	437	186	144
145°	216	355	216	355	216	135
155°	244	306	244	306	244	112
165°	264	285	264	285	264	74
175°	274	276	274	276	274	26
180°	274	274	274	274	274	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2
2.5°	2585.1	2585.1	2599.6	2604.4	2604.4	2597.2	2589.9	2597.2	2619.0	2626.3	2623.9
5°	2575.3	2594.7	2621.4	2626.3	2631.1	2628.6	2623.9	2628.6	2653.0	2657.8	2660.2
7.5°	2556.0	2592.3	2626.3	2633.5	2640.9	2633.5	2631.1	2636.0	2660.2	2665.1	2665.1
10°	2531.6	2582.6	2621.4	2626.3	2633.5	2626.3	2626.3	2636.0	2660.2	2665.1	2667.5
12.5°	2497.7	2568.1	2604.4	2609.3	2619.0	2616.5	2614.1	2623.9	2648.1	2653.0	2653.0
15°	2459.0	2541.4	2575.3	2580.2	2597.2	2592.3	2592.3	2602.0	2628.6	2636.0	2633.5
17.5°	2405.6	2507.4	2546.2	2553.5	2565.6	2563.2	2565.6	2575.3	2599.6	2604.4	2606.9
20°	2345.0	2461.3	2507.4	2514.7	2526.9	2526.9	2526.9	2539.0	2563.2	2572.9	2572.9
22.5°	2262.5	2412.9	2461.3	2466.2	2480.7	2480.7	2485.6	2502.6	2524.4	2526.9	2526.9
25°	2165.5	2359.5	2400.7	2415.3	2429.9	2437.1	2444.4	2454.1	2461.3	2459.0	2461.3
27.5°	2063.6	2291.6	2345.0	2354.6	2374.1	2381.3	2391.1	2393.4	2395.9	2403.2	2398.3
30°	1949.6	2197.1	2277.1	2286.8	2318.3	2323.1	2313.4	2318.3	2330.4	2335.3	2340.1
32.5°	1821.2	2056.4	2206.8	2228.5	2257.6	2243.1	2240.6	2248.0	2267.3	2267.3	2272.2
35°	1646.5	1947.3	2141.3	2160.6	2182.5	2165.5	2175.2	2177.6	2189.8	2197.1	2194.6
37.5°	1455.0	1852.6	2073.3	2087.9	2104.9	2083.1	2097.6	2104.9	2114.6	2109.8	2109.8
40°	1285.2	1704.8	1993.3	2003.1	2017.6	2000.6	2015.2	2020.0	2024.9	2020.0	2017.6
42.5°	1159.1	1542.3	1908.4	1920.6	1910.9	1923.0	1927.9	1937.5	1930.3	1920.6	1920.6
45°	1062.1	1498.6	1816.3	1830.9	1816.3	1835.8	1843.0	1843.0	1821.2	1816.3	1813.9
47.5°	1030.7	1411.3	1724.2	1724.2	1716.9	1741.1	1753.3	1736.3	1714.4	1707.2	1707.2
50°	1028.2	1314.3	1598.1	1588.3	1622.3	1651.4	1639.3	1622.3	1605.3	1578.6	1578.6
52.5°	933.7	1195.5	1435.6	1472.0	1525.3	1542.3	1522.9	1505.9	1476.8	1464.7	1455.0
55°	865.8	1071.9	1287.7	1360.4	1416.2	1438.0	1401.6	1384.7	1341.0	1333.8	1328.9
57.5°	851.2	892.4	1151.9	1244.0	1311.9	1309.5	1287.7	1256.1	1219.8	1212.5	1210.1
60°	780.9	645.0	1006.3	1115.5	1185.8	1178.5	1159.1	1130.0	1096.1	1091.2	1086.4
62.5°	708.1	468.0	841.4	965.1	1064.5	1062.1	1045.2	1001.5	977.3	965.1	955.4
65°	601.4	392.9	599.0	802.7	945.8	950.5	914.2	882.7	856.0	841.4	839.0
67.5°	458.3	320.1	405.0	669.3	831.8	826.9	780.9	766.3	732.3	725.1	710.5
70°	339.5	213.4	281.3	543.2	720.2	708.1	671.8	654.8	623.2	606.2	596.5
72.5°	281.3	172.2	206.1	422.0	606.2	591.7	560.2	540.8	514.1	499.5	489.9
75°	228.0	181.9	157.7	312.8	492.3	482.6	453.4	434.1	412.2	392.9	395.3
77.5°	167.3	169.8	126.1	230.3	390.4	375.9	358.9	334.7	325.0	305.6	305.6
80°	126.1	133.3	94.6	157.7	281.3	281.3	266.8	249.8	232.8	223.1	223.1
82.5°	84.9	84.9	70.3	99.4	191.6	184.3	174.6	169.8	160.0	155.2	155.2
85°	38.8	48.5	43.7	60.7	104.3	109.1	109.1	104.3	101.9	97.0	99.4
87.5°	12.1	21.8	26.7	34.0	53.3	55.8	58.2	58.2	58.2	60.7	60.7
90°	1.8	3.3	4.8	5.1	8.1	12.0	13.9	12.4	9.3	7.0	7.0
92.5°	7.3	19.8	32.4	35.5	49.9	69.1	78.6	68.9	49.6	35.0	33.6
95°	17.6	40.5	63.4	69.1	122.7	194.2	230.0	205.2	155.7	118.6	114.3
97.5°	30.6	50.7	70.8	75.9	165.3	284.5	344.1	328.5	297.2	273.7	265.8
100°	40.5	58.7	77.0	81.6	180.8	313.0	379.2	380.4	382.7	384.4	374.9
102.5°	48.9	66.0	83.1	87.3	187.9	322.1	389.2	409.1	448.9	478.9	470.7
105°	63.2	77.7	92.2	95.8	193.3	323.1	388.1	432.8	522.2	589.2	584.8
107.5°	77.9	91.4	104.9	108.3	194.2	308.7	366.0	428.3	553.0	646.5	647.6
110°	87.9	100.0	112.2	115.3	192.7	296.0	347.6	417.3	556.7	661.2	665.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	97.6	109.2	120.8	123.7	192.8	284.9	330.9	402.2	544.8	651.8	658.9
115°	112.3	123.0	133.7	136.4	194.6	272.1	310.8	379.6	517.0	620.1	629.8
117.5°	126.8	136.6	146.3	148.8	198.2	264.1	297.1	359.1	483.1	576.1	587.0
120°	135.3	144.4	153.6	155.9	201.2	261.5	291.6	348.2	461.5	546.5	556.9
122.5°	143.5	152.8	162.1	164.4	205.4	260.0	287.3	338.4	440.4	516.9	527.3
125°	156.3	164.7	173.1	175.2	211.1	258.9	282.7	326.1	412.8	477.8	487.3
127.5°	166.6	175.0	183.5	185.6	216.8	258.1	278.9	316.1	390.6	446.4	454.4
130°	172.1	181.2	190.3	192.6	220.9	258.6	277.4	310.5	376.8	426.5	433.9
132.5°	177.8	186.9	196.0	198.3	224.3	258.9	276.1	305.8	365.1	409.6	416.3
135°	186.2	194.6	202.9	205.0	228.0	258.6	273.9	298.8	348.4	385.7	391.4
137.5°	194.8	203.1	211.3	213.5	233.5	260.2	273.6	294.6	336.5	368.0	372.7
140°	202.0	209.6	217.2	219.1	236.9	260.4	272.3	290.5	326.7	353.9	358.3
142.5°	207.6	214.6	221.6	223.4	239.7	261.5	272.3	288.2	320.1	344.0	347.7
145°	216.0	222.2	228.2	229.8	243.4	261.5	270.4	283.5	309.5	329.1	331.9
147.5°	224.5	230.4	236.4	237.9	248.7	263.2	270.4	280.7	301.2	316.5	318.9
150°	230.0	235.4	240.7	242.1	251.5	264.1	270.4	279.1	296.4	309.4	311.3
152.5°	235.7	239.7	243.8	244.8	253.4	264.8	270.4	277.8	292.6	303.7	305.1
155°	244.1	247.1	250.2	250.9	257.4	266.1	270.4	276.3	288.1	296.9	297.8
157.5°	250.3	253.3	256.2	257.0	261.5	267.4	270.4	275.0	284.1	291.0	291.6
160°	254.6	256.9	259.2	259.7	263.3	268.1	270.4	274.4	282.2	288.1	288.4
162.5°	258.8	260.5	262.2	262.6	265.2	268.7	270.4	273.7	280.4	285.3	285.7
165°	263.5	265.0	266.6	267.0	268.2	269.7	270.4	272.8	277.5	281.1	281.5
167.5°	267.7	268.4	269.2	269.3	270.4	271.6	272.3	273.8	277.0	279.3	279.4
170°	270.4	271.2	271.9	272.1	272.2	272.3	272.3	273.8	277.0	279.3	279.3
172.5°	271.9	272.1	272.3	272.3	272.3	272.3	272.3	273.5	276.0	277.8	277.6
175°	273.9	273.9	273.9	273.9	273.4	272.6	272.3	273.0	274.6	275.8	275.8
177.5°	273.9	273.9	273.9	273.9	273.5	272.9	272.6	273.3	274.5	275.4	275.2
180°	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2
2.5°	2628.6	2621.4	2628.6	2623.9	2626.3	2619.0	2597.2	2589.9	2597.2	2604.4	2604.4
5°	2660.2	2655.4	2660.2	2660.2	2657.8	2653.0	2628.6	2623.9	2628.6	2631.1	2626.3
7.5°	2669.9	2662.6	2669.9	2665.1	2665.1	2660.2	2636.0	2631.1	2633.5	2640.9	2633.5
10°	2669.9	2662.6	2669.9	2667.5	2665.1	2660.2	2636.0	2626.3	2626.3	2633.5	2626.3
12.5°	2657.8	2653.0	2657.8	2653.0	2653.0	2648.1	2623.9	2614.1	2616.5	2619.0	2609.3
15°	2638.4	2631.1	2638.4	2633.5	2636.0	2628.6	2602.0	2592.3	2592.3	2597.2	2580.2
17.5°	2609.3	2599.6	2609.3	2606.9	2604.4	2599.6	2575.3	2565.6	2563.2	2565.6	2553.5
20°	2575.3	2568.1	2575.3	2572.9	2572.9	2563.2	2539.0	2526.9	2526.9	2526.9	2514.7
22.5°	2522.0	2514.7	2522.0	2526.9	2526.9	2524.4	2502.6	2485.6	2480.7	2480.7	2466.2
25°	2461.3	2454.1	2461.3	2461.3	2459.0	2461.3	2454.1	2444.4	2437.1	2429.9	2415.3
27.5°	2403.2	2398.3	2403.2	2398.3	2403.2	2395.9	2393.4	2391.1	2381.3	2374.1	2354.6
30°	2345.0	2340.1	2345.0	2340.1	2335.3	2330.4	2318.3	2313.4	2323.1	2318.3	2286.8
32.5°	2272.2	2267.3	2272.2	2272.2	2267.3	2267.3	2248.0	2240.6	2243.1	2257.6	2228.5
35°	2197.1	2189.8	2197.1	2194.6	2197.1	2189.8	2177.6	2175.2	2165.5	2182.5	2160.6
37.5°	2109.8	2102.4	2109.8	2109.8	2109.8	2114.6	2104.9	2097.6	2083.1	2104.9	2087.9
40°	2020.0	2010.3	2020.0	2017.6	2020.0	2024.9	2020.0	2015.2	2000.6	2017.6	2003.1
42.5°	1918.2	1915.8	1918.2	1920.6	1920.6	1930.3	1937.5	1927.9	1923.0	1910.9	1920.6
45°	1809.1	1804.2	1809.1	1813.9	1816.3	1821.2	1843.0	1843.0	1835.8	1816.3	1830.9
47.5°	1692.6	1680.5	1692.6	1707.2	1707.2	1714.4	1736.3	1753.3	1741.1	1716.9	1724.2
50°	1569.0	1571.4	1569.0	1578.6	1578.6	1605.3	1622.3	1639.3	1651.4	1622.3	1588.3
52.5°	1447.8	1445.3	1447.8	1455.0	1464.7	1476.8	1505.9	1522.9	1542.3	1525.3	1472.0
55°	1326.4	1331.3	1326.4	1328.9	1333.8	1341.0	1384.7	1401.6	1438.0	1416.2	1360.4
57.5°	1205.2	1198.0	1205.2	1210.1	1212.5	1219.8	1256.1	1287.7	1309.5	1311.9	1244.0
60°	1064.5	1054.9	1064.5	1086.4	1091.2	1096.1	1130.0	1159.1	1178.5	1185.8	1115.5
62.5°	940.9	923.9	940.9	955.4	965.1	977.3	1001.5	1045.2	1062.1	1064.5	965.1
65°	810.0	802.7	810.0	839.0	841.4	856.0	882.7	914.2	950.5	945.8	802.7
67.5°	691.1	691.1	691.1	710.5	725.1	732.3	766.3	780.9	826.9	831.8	669.3
70°	582.0	579.6	582.0	596.5	606.2	623.2	654.8	671.8	708.1	720.2	543.2
72.5°	477.8	475.3	477.8	489.9	499.5	514.1	540.8	560.2	591.7	606.2	422.0
75°	385.6	380.8	385.6	395.3	392.9	412.2	434.1	453.4	482.6	492.3	312.8
77.5°	295.9	295.9	295.9	305.6	305.6	325.0	334.7	358.9	375.9	390.4	230.3
80°	220.7	218.2	220.7	223.1	223.1	232.8	249.8	266.8	281.3	281.3	157.7
82.5°	155.2	150.3	155.2	155.2	155.2	160.0	169.8	174.6	184.3	191.6	99.4
85°	97.0	97.0	97.0	99.4	97.0	101.9	104.3	109.1	109.1	104.3	60.7
87.5°	63.0	60.7	63.0	60.7	60.7	58.2	58.2	58.2	55.8	53.3	34.0
90°	7.0	7.0	7.0	7.0	7.0	9.3	12.4	13.9	12.0	8.1	5.1
92.5°	28.0	22.4	28.0	33.6	35.0	49.6	68.9	78.6	69.1	49.9	35.5
95°	97.6	80.7	97.6	114.3	118.6	155.7	205.2	230.0	194.2	122.7	69.1
97.5°	233.6	201.6	233.6	265.8	273.7	297.2	328.5	344.1	284.5	165.3	75.9
100°	336.7	298.5	336.7	374.9	384.4	382.7	380.4	379.2	313.0	180.8	81.6
102.5°	438.0	405.3	438.0	470.7	478.9	448.9	409.1	389.2	322.1	187.9	87.3
105°	567.2	549.6	567.2	584.8	589.2	522.2	432.8	388.1	323.1	193.3	95.8
107.5°	651.8	656.1	651.8	647.6	646.5	553.0	428.3	366.0	308.7	194.2	108.3
110°	684.0	702.4	684.0	665.8	661.2	556.7	417.3	347.6	296.0	192.7	115.3



TEST NUMBER: P934068

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	687.0	715.1	687.0	658.9	651.8	544.8	402.2	330.9	284.9	192.8	123.7
115°	668.8	707.7	668.8	629.8	620.1	517.0	379.6	310.8	272.1	194.6	136.4
117.5°	630.2	673.4	630.2	587.0	576.1	483.1	359.1	297.1	264.1	198.2	148.8
120°	599.0	641.0	599.0	556.9	546.5	461.5	348.2	291.6	261.5	201.2	155.9
122.5°	568.7	610.1	568.7	527.3	516.9	440.4	338.4	287.3	260.0	205.4	164.4
125°	525.5	563.6	525.5	487.3	477.8	412.8	326.1	282.7	258.9	211.1	175.2
127.5°	486.6	518.8	486.6	454.4	446.4	390.6	316.1	278.9	258.1	216.8	185.6
130°	463.6	493.4	463.6	433.9	426.5	376.8	310.5	277.4	258.6	220.9	192.6
132.5°	442.9	469.5	442.9	416.3	409.6	365.1	305.8	276.1	258.9	224.3	198.3
135°	414.3	437.3	414.3	391.4	385.7	348.4	298.8	273.9	258.6	228.0	205.0
137.5°	391.5	410.3	391.5	372.7	368.0	336.5	294.6	273.6	260.2	233.5	213.5
140°	375.8	393.4	375.8	358.3	353.9	326.7	290.5	272.3	260.4	236.9	219.1
142.5°	362.9	377.9	362.9	347.7	344.0	320.1	288.2	272.3	261.5	239.7	223.4
145°	343.4	354.8	343.4	331.9	329.1	309.5	283.5	270.4	261.5	243.4	229.8
147.5°	328.4	337.9	328.4	318.9	316.5	301.2	280.7	270.4	263.2	248.7	237.9
150°	319.0	326.7	319.0	311.3	309.4	296.4	279.1	270.4	264.1	251.5	242.1
152.5°	310.9	316.7	310.9	305.1	303.7	292.6	277.8	270.4	264.8	253.4	244.8
155°	301.6	305.5	301.6	297.8	296.9	288.1	276.3	270.4	266.1	257.4	250.9
157.5°	294.4	297.1	294.4	291.6	291.0	284.1	275.0	270.4	267.4	261.5	257.0
160°	290.0	291.6	290.0	288.4	288.1	282.2	274.4	270.4	268.1	263.3	259.7
162.5°	287.1	288.6	287.1	285.7	285.3	280.4	273.7	270.4	268.7	265.2	262.6
165°	283.0	284.6	283.0	281.5	281.1	277.5	272.8	270.4	269.7	268.2	267.0
167.5°	280.1	280.7	280.1	279.4	279.3	277.0	273.8	272.3	271.6	270.4	269.3
170°	279.3	279.3	279.3	279.3	279.3	277.0	273.8	272.3	272.3	272.2	272.1
172.5°	277.1	276.5	277.1	277.6	277.8	276.0	273.5	272.3	272.3	272.3	272.3
175°	275.8	275.8	275.8	275.8	275.8	274.6	273.0	272.3	272.6	273.4	273.9
177.5°	274.6	273.9	274.6	275.2	275.4	274.5	273.3	272.6	272.9	273.5	273.9
180°	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9



TEST NUMBER: P934068

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2
2.5°	2599.6	2585.1	2585.1	2560.8	2551.1	2543.9	2531.6	2495.3	2485.6	2475.9	2490.4
5°	2621.4	2594.7	2575.3	2531.6	2495.3	2480.7	2434.6	2347.4	2289.2	2245.5	2221.3
7.5°	2626.3	2592.3	2556.0	2488.1	2400.7	2362.0	2221.3	2061.2	2017.6	1978.8	1954.5
10°	2621.4	2582.6	2531.6	2429.9	2223.7	2155.8	2015.2	1910.9	1884.2	1877.0	1884.2
12.5°	2604.4	2568.1	2497.7	2328.0	2039.4	1993.3	1910.9	1850.3	1845.4	1857.5	1923.0
15°	2575.3	2541.4	2459.0	2192.2	1937.5	1903.6	1845.4	1823.6	1850.3	1935.1	2131.5
17.5°	2546.2	2507.4	2405.6	2058.8	1860.0	1835.8	1794.5	1838.1	1988.5	2102.4	2168.0
20°	2507.4	2461.3	2345.0	1961.8	1804.2	1782.3	1763.0	1959.4	2073.3	2114.6	2151.0
22.5°	2461.3	2412.9	2262.5	1893.9	1746.0	1729.0	1741.1	2027.3	2073.3	2102.4	2134.0
25°	2400.7	2359.5	2165.5	1840.5	1699.9	1680.5	1726.6	2020.0	2046.6	2054.0	2117.0
27.5°	2345.0	2291.6	2063.6	1792.1	1644.1	1636.9	1738.8	1988.5	2007.9	2015.2	2083.1
30°	2277.1	2197.1	1949.6	1741.1	1586.0	1583.5	1741.1	1949.6	1944.9	1964.2	2032.1
32.5°	2206.8	2056.4	1821.2	1678.1	1530.2	1527.8	1724.2	1891.5	1886.6	1913.3	1964.2
35°	2141.3	1947.3	1646.5	1605.3	1459.9	1462.3	1683.0	1823.6	1826.0	1850.3	1881.8
37.5°	2073.3	1852.6	1455.0	1525.3	1392.0	1392.0	1627.2	1760.5	1755.7	1763.0	1806.6
40°	1993.3	1704.8	1285.2	1421.1	1328.9	1321.6	1559.3	1692.6	1675.6	1673.2	1733.9
42.5°	1908.4	1542.3	1159.1	1282.8	1256.1	1246.4	1476.8	1610.2	1578.6	1586.0	1663.5
45°	1816.3	1498.6	1062.1	1084.0	1181.0	1173.7	1387.1	1515.6	1493.8	1513.2	1593.2
47.5°	1724.2	1411.3	1030.7	899.7	1101.0	1098.5	1287.7	1423.4	1411.3	1430.8	1515.6
50°	1598.1	1314.3	1028.2	771.1	1011.2	1020.9	1168.9	1333.8	1333.8	1350.8	1440.4
52.5°	1435.6	1195.5	933.7	698.4	907.0	936.0	1064.5	1256.1	1261.0	1278.0	1358.0
55°	1287.7	1071.9	865.8	642.7	783.3	846.3	962.8	1176.1	1185.8	1202.8	1275.5
57.5°	1151.9	892.4	851.2	577.1	669.3	729.9	873.0	1098.5	1103.3	1117.9	1188.2
60°	1006.3	645.0	780.9	506.8	569.9	616.0	790.5	1006.3	1023.3	1033.0	1093.7
62.5°	841.4	468.0	708.1	458.3	521.3	531.1	722.7	919.1	940.9	948.2	984.5
65°	599.0	392.9	601.4	417.1	470.4	472.9	649.9	829.3	848.8	860.9	887.5
67.5°	405.0	320.1	458.3	378.3	431.7	434.1	579.6	725.1	751.8	761.4	778.4
70°	281.3	213.4	339.5	337.1	388.0	392.9	504.4	630.5	654.8	662.0	671.8
72.5°	206.1	172.2	281.3	303.1	341.9	346.8	426.8	523.8	548.0	555.3	560.2
75°	157.7	181.9	228.0	264.3	291.0	293.4	349.2	426.8	443.8	448.7	451.0
77.5°	126.1	169.8	167.3	213.4	237.7	232.8	274.0	329.8	344.3	344.3	344.3
80°	94.6	133.3	126.1	152.8	174.6	169.8	196.4	235.2	240.1	244.9	242.5
82.5°	70.3	84.9	84.9	97.0	116.4	111.6	131.0	152.8	152.8	152.8	157.7
85°	43.7	48.5	38.8	50.9	65.4	63.0	72.8	82.4	84.9	84.9	80.0
87.5°	26.7	21.8	12.1	19.4	29.1	29.1	34.0	36.3	34.0	34.0	34.0
90°	4.8	3.3	1.8	3.3	4.8	5.1	8.1	12.0	13.9	12.4	9.3
92.5°	32.4	19.8	7.3	19.8	32.4	35.5	49.9	69.1	78.6	68.9	49.6
95°	63.4	40.5	17.6	40.5	63.4	69.1	122.7	194.2	230.0	205.2	155.7
97.5°	70.8	50.7	30.6	50.7	70.8	75.9	165.3	284.5	344.1	328.5	297.2
100°	77.0	58.7	40.5	58.7	77.0	81.6	180.8	313.0	379.2	380.4	382.7
102.5°	83.1	66.0	48.9	66.0	83.1	87.3	187.9	322.1	389.2	409.1	448.9
105°	92.2	77.7	63.2	77.7	92.2	95.8	193.3	323.1	388.1	432.8	522.2
107.5°	104.9	91.4	77.9	91.4	104.9	108.3	194.2	308.7	366.0	428.3	553.0
110°	112.2	100.0	87.9	100.0	112.2	115.3	192.7	296.0	347.6	417.3	556.7



TEST NUMBER: P934068

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	120.8	109.2	97.6	109.2	120.8	123.7	192.8	284.9	330.9	402.2	544.8
115°	133.7	123.0	112.3	123.0	133.7	136.4	194.6	272.1	310.8	379.6	517.0
117.5°	146.3	136.6	126.8	136.6	146.3	148.8	198.2	264.1	297.1	359.1	483.1
120°	153.6	144.4	135.3	144.4	153.6	155.9	201.2	261.5	291.6	348.2	461.5
122.5°	162.1	152.8	143.5	152.8	162.1	164.4	205.4	260.0	287.3	338.4	440.4
125°	173.1	164.7	156.3	164.7	173.1	175.2	211.1	258.9	282.7	326.1	412.8
127.5°	183.5	175.0	166.6	175.0	183.5	185.6	216.8	258.1	278.9	316.1	390.6
130°	190.3	181.2	172.1	181.2	190.3	192.6	220.9	258.6	277.4	310.5	376.8
132.5°	196.0	186.9	177.8	186.9	196.0	198.3	224.3	258.9	276.1	305.8	365.1
135°	202.9	194.6	186.2	194.6	202.9	205.0	228.0	258.6	273.9	298.8	348.4
137.5°	211.3	203.1	194.8	203.1	211.3	213.5	233.5	260.2	273.6	294.6	336.5
140°	217.2	209.6	202.0	209.6	217.2	219.1	236.9	260.4	272.3	290.5	326.7
142.5°	221.6	214.6	207.6	214.6	221.6	223.4	239.7	261.5	272.3	288.2	320.1
145°	228.2	222.2	216.0	222.2	228.2	229.8	243.4	261.5	270.4	283.5	309.5
147.5°	236.4	230.4	224.5	230.4	236.4	237.9	248.7	263.2	270.4	280.7	301.2
150°	240.7	235.4	230.0	235.4	240.7	242.1	251.5	264.1	270.4	279.1	296.4
152.5°	243.8	239.7	235.7	239.7	243.8	244.8	253.4	264.8	270.4	277.8	292.6
155°	250.2	247.1	244.1	247.1	250.2	250.9	257.4	266.1	270.4	276.3	288.1
157.5°	256.2	253.3	250.3	253.3	256.2	257.0	261.5	267.4	270.4	275.0	284.1
160°	259.2	256.9	254.6	256.9	259.2	259.7	263.3	268.1	270.4	274.4	282.2
162.5°	262.2	260.5	258.8	260.5	262.2	262.6	265.2	268.7	270.4	273.7	280.4
165°	266.6	265.0	263.5	265.0	266.6	267.0	268.2	269.7	270.4	272.8	277.5
167.5°	269.2	268.4	267.7	268.4	269.2	269.3	270.4	271.6	272.3	273.8	277.0
170°	271.9	271.2	270.4	271.2	271.9	272.1	272.2	272.3	272.3	273.8	277.0
172.5°	272.3	272.1	271.9	272.1	272.3	272.3	272.3	272.3	272.3	273.5	276.0
175°	273.9	273.9	273.9	273.9	273.9	273.9	273.4	272.6	272.3	273.0	274.6
177.5°	273.9	273.9	273.9	273.9	273.9	273.9	273.5	272.9	272.6	273.3	274.5
180°	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9



TEST NUMBER: P934068

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2	2563.2
2.5°	2473.5	2466.2	2475.9	2449.2	2475.9	2466.2	2473.5	2490.4	2475.9	2485.6	2495.3
5°	2170.3	2158.2	2119.4	2087.9	2119.4	2158.2	2170.3	2221.3	2245.5	2289.2	2347.4
7.5°	1940.0	1930.3	1920.6	1901.2	1920.6	1930.3	1940.0	1954.5	1978.8	2017.6	2061.2
10°	1889.1	1891.5	1906.1	1903.6	1906.1	1891.5	1889.1	1884.2	1877.0	1884.2	1910.9
12.5°	2020.0	2041.9	2121.9	2117.0	2121.9	2041.9	2020.0	1923.0	1857.5	1845.4	1850.3
15°	2170.3	2177.6	2194.6	2197.1	2194.6	2177.6	2170.3	2131.5	1935.1	1850.3	1823.6
17.5°	2184.9	2187.3	2199.4	2199.4	2199.4	2187.3	2184.9	2168.0	2102.4	1988.5	1838.1
20°	2172.8	2177.6	2201.9	2206.8	2201.9	2177.6	2172.8	2151.0	2114.6	2073.3	1959.4
22.5°	2168.0	2177.6	2197.1	2194.6	2197.1	2177.6	2168.0	2134.0	2102.4	2073.3	2027.3
25°	2143.6	2143.6	2146.1	2148.5	2146.1	2143.6	2143.6	2117.0	2054.0	2046.6	2020.0
27.5°	2092.8	2097.6	2112.2	2109.8	2112.2	2097.6	2092.8	2083.1	2015.2	2007.9	1988.5
30°	2046.6	2041.9	2029.7	2020.0	2029.7	2041.9	2046.6	2032.1	1964.2	1944.9	1949.6
32.5°	1969.1	1957.0	1944.9	1937.5	1944.9	1957.0	1969.1	1964.2	1913.3	1886.6	1891.5
35°	1877.0	1879.3	1877.0	1869.6	1877.0	1879.3	1877.0	1881.8	1850.3	1826.0	1823.6
37.5°	1811.4	1816.3	1813.9	1804.2	1813.9	1816.3	1811.4	1806.6	1763.0	1755.7	1760.5
40°	1743.5	1746.0	1743.5	1736.3	1743.5	1746.0	1743.5	1733.9	1673.2	1675.6	1692.6
42.5°	1678.1	1675.6	1668.4	1663.5	1668.4	1675.6	1678.1	1663.5	1586.0	1578.6	1610.2
45°	1602.9	1605.3	1590.8	1583.5	1590.8	1605.3	1602.9	1593.2	1513.2	1493.8	1515.6
47.5°	1527.8	1527.8	1515.6	1508.3	1515.6	1527.8	1527.8	1515.6	1430.8	1411.3	1423.4
50°	1447.8	1445.3	1428.3	1425.9	1428.3	1445.3	1447.8	1440.4	1350.8	1333.8	1333.8
52.5°	1355.5	1355.5	1358.0	1362.9	1358.0	1355.5	1355.5	1358.0	1278.0	1261.0	1256.1
55°	1275.5	1278.0	1295.0	1299.8	1295.0	1278.0	1275.5	1275.5	1202.8	1185.8	1176.1
57.5°	1193.1	1193.1	1205.2	1205.2	1205.2	1193.1	1193.1	1188.2	1117.9	1103.3	1098.5
60°	1098.5	1103.3	1113.1	1110.7	1113.1	1103.3	1098.5	1093.7	1033.0	1023.3	1006.3
62.5°	999.1	1004.0	1006.3	1001.5	1006.3	1004.0	999.1	984.5	948.2	940.9	919.1
65°	894.8	899.7	902.1	897.2	902.1	899.7	894.8	887.5	860.9	848.8	829.3
67.5°	788.1	785.7	783.3	793.0	783.3	785.7	788.1	778.4	761.4	751.8	725.1
70°	679.0	679.0	676.5	681.4	676.5	679.0	679.0	671.8	662.0	654.8	630.5
72.5°	562.6	560.2	569.9	562.6	569.9	560.2	562.6	560.2	555.3	548.0	523.8
75°	448.7	453.4	448.7	455.9	448.7	453.4	448.7	451.0	448.7	443.8	426.8
77.5°	341.9	346.8	341.9	341.9	341.9	346.8	341.9	344.3	344.3	344.3	329.8
80°	242.5	240.1	240.1	237.7	240.1	240.1	242.5	242.5	244.9	240.1	235.2
82.5°	155.2	152.8	152.8	157.7	152.8	152.8	155.2	157.7	152.8	152.8	152.8
85°	84.9	87.3	82.4	82.4	82.4	87.3	84.9	80.0	84.9	84.9	82.4
87.5°	31.6	29.1	29.1	29.1	29.1	29.1	31.6	34.0	34.0	34.0	36.3
90°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.3	12.4	13.9	12.0
92.5°	35.0	33.6	28.0	22.4	28.0	33.6	35.0	49.6	68.9	78.6	69.1
95°	118.6	114.3	97.6	80.7	97.6	114.3	118.6	155.7	205.2	230.0	194.2
97.5°	273.7	265.8	233.6	201.6	233.6	265.8	273.7	297.2	328.5	344.1	284.5
100°	384.4	374.9	336.7	298.5	336.7	374.9	384.4	382.7	380.4	379.2	313.0
102.5°	478.9	470.7	438.0	405.3	438.0	470.7	478.9	448.9	409.1	389.2	322.1
105°	589.2	584.8	567.2	549.6	567.2	584.8	589.2	522.2	432.8	388.1	323.1
107.5°	646.5	647.6	651.8	656.1	651.8	647.6	646.5	553.0	428.3	366.0	308.7
110°	661.2	665.8	684.0	702.4	684.0	665.8	661.2	556.7	417.3	347.6	296.0



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	651.8	658.9	687.0	715.1	687.0	658.9	651.8	544.8	402.2	330.9	284.9
115°	620.1	629.8	668.8	707.7	668.8	629.8	620.1	517.0	379.6	310.8	272.1
117.5°	576.1	587.0	630.2	673.4	630.2	587.0	576.1	483.1	359.1	297.1	264.1
120°	546.5	556.9	599.0	641.0	599.0	556.9	546.5	461.5	348.2	291.6	261.5
122.5°	516.9	527.3	568.7	610.1	568.7	527.3	516.9	440.4	338.4	287.3	260.0
125°	477.8	487.3	525.5	563.6	525.5	487.3	477.8	412.8	326.1	282.7	258.9
127.5°	446.4	454.4	486.6	518.8	486.6	454.4	446.4	390.6	316.1	278.9	258.1
130°	426.5	433.9	463.6	493.4	463.6	433.9	426.5	376.8	310.5	277.4	258.6
132.5°	409.6	416.3	442.9	469.5	442.9	416.3	409.6	365.1	305.8	276.1	258.9
135°	385.7	391.4	414.3	437.3	414.3	391.4	385.7	348.4	298.8	273.9	258.6
137.5°	368.0	372.7	391.5	410.3	391.5	372.7	368.0	336.5	294.6	273.6	260.2
140°	353.9	358.3	375.8	393.4	375.8	358.3	353.9	326.7	290.5	272.3	260.4
142.5°	344.0	347.7	362.9	377.9	362.9	347.7	344.0	320.1	288.2	272.3	261.5
145°	329.1	331.9	343.4	354.8	343.4	331.9	329.1	309.5	283.5	270.4	261.5
147.5°	316.5	318.9	328.4	337.9	328.4	318.9	316.5	301.2	280.7	270.4	263.2
150°	309.4	311.3	319.0	326.7	319.0	311.3	309.4	296.4	279.1	270.4	264.1
152.5°	303.7	305.1	310.9	316.7	310.9	305.1	303.7	292.6	277.8	270.4	264.8
155°	296.9	297.8	301.6	305.5	301.6	297.8	296.9	288.1	276.3	270.4	266.1
157.5°	291.0	291.6	294.4	297.1	294.4	291.6	291.0	284.1	275.0	270.4	267.4
160°	288.1	288.4	290.0	291.6	290.0	288.4	288.1	282.2	274.4	270.4	268.1
162.5°	285.3	285.7	287.1	288.6	287.1	285.7	285.3	280.4	273.7	270.4	268.7
165°	281.1	281.5	283.0	284.6	283.0	281.5	281.1	277.5	272.8	270.4	269.7
167.5°	279.3	279.4	280.1	280.7	280.1	279.4	279.3	277.0	273.8	272.3	271.6
170°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	277.0	273.8	272.3	272.3
172.5°	277.8	277.6	277.1	276.5	277.1	277.6	277.8	276.0	273.5	272.3	272.3
175°	275.8	275.8	275.8	275.8	275.8	275.8	275.8	274.6	273.0	272.3	272.6
177.5°	275.4	275.2	274.6	273.9	274.6	275.2	275.4	274.5	273.3	272.6	272.9
180°	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2563.2	2563.2	2563.2	2563.2	2563.2
2.5°	2531.6	2543.9	2551.1	2560.8	2585.1
5°	2434.6	2480.7	2495.3	2531.6	2575.3
7.5°	2221.3	2362.0	2400.7	2488.1	2556.0
10°	2015.2	2155.8	2223.7	2429.9	2531.6
12.5°	1910.9	1993.3	2039.4	2328.0	2497.7
15°	1845.4	1903.6	1937.5	2192.2	2459.0
17.5°	1794.5	1835.8	1860.0	2058.8	2405.6
20°	1763.0	1782.3	1804.2	1961.8	2345.0
22.5°	1741.1	1729.0	1746.0	1893.9	2262.5
25°	1726.6	1680.5	1699.9	1840.5	2165.5
27.5°	1738.8	1636.9	1644.1	1792.1	2063.6
30°	1741.1	1583.5	1586.0	1741.1	1949.6
32.5°	1724.2	1527.8	1530.2	1678.1	1821.2
35°	1683.0	1462.3	1459.9	1605.3	1646.5
37.5°	1627.2	1392.0	1392.0	1525.3	1455.0
40°	1559.3	1321.6	1328.9	1421.1	1285.2
42.5°	1476.8	1246.4	1256.1	1282.8	1159.1
45°	1387.1	1173.7	1181.0	1084.0	1062.1
47.5°	1287.7	1098.5	1101.0	899.7	1030.7
50°	1168.9	1020.9	1011.2	771.1	1028.2
52.5°	1064.5	936.0	907.0	698.4	933.7
55°	962.8	846.3	783.3	642.7	865.8
57.5°	873.0	729.9	669.3	577.1	851.2
60°	790.5	616.0	569.9	506.8	780.9
62.5°	722.7	531.1	521.3	458.3	708.1
65°	649.9	472.9	470.4	417.1	601.4
67.5°	579.6	434.1	431.7	378.3	458.3
70°	504.4	392.9	388.0	337.1	339.5
72.5°	426.8	346.8	341.9	303.1	281.3
75°	349.2	293.4	291.0	264.3	228.0
77.5°	274.0	232.8	237.7	213.4	167.3
80°	196.4	169.8	174.6	152.8	126.1
82.5°	131.0	111.6	116.4	97.0	84.9
85°	72.8	63.0	65.4	50.9	38.8
87.5°	34.0	29.1	29.1	19.4	12.1
90°	8.1	5.1	4.8	3.3	1.8
92.5°	49.9	35.5	32.4	19.8	7.3
95°	122.7	69.1	63.4	40.5	17.6
97.5°	165.3	75.9	70.8	50.7	30.6
100°	180.8	81.6	77.0	58.7	40.5
102.5°	187.9	87.3	83.1	66.0	48.9
105°	193.3	95.8	92.2	77.7	63.2
107.5°	194.2	108.3	104.9	91.4	77.9
110°	192.7	115.3	112.2	100.0	87.9



TEST NUMBER: P934068

CATALOG NUMBER: SQ4-FA-025U-100D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	192.8	123.7	120.8	109.2	97.6
115°	194.6	136.4	133.7	123.0	112.3
117.5°	198.2	148.8	146.3	136.6	126.8
120°	201.2	155.9	153.6	144.4	135.3
122.5°	205.4	164.4	162.1	152.8	143.5
125°	211.1	175.2	173.1	164.7	156.3
127.5°	216.8	185.6	183.5	175.0	166.6
130°	220.9	192.6	190.3	181.2	172.1
132.5°	224.3	198.3	196.0	186.9	177.8
135°	228.0	205.0	202.9	194.6	186.2
137.5°	233.5	213.5	211.3	203.1	194.8
140°	236.9	219.1	217.2	209.6	202.0
142.5°	239.7	223.4	221.6	214.6	207.6
145°	243.4	229.8	228.2	222.2	216.0
147.5°	248.7	237.9	236.4	230.4	224.5
150°	251.5	242.1	240.7	235.4	230.0
152.5°	253.4	244.8	243.8	239.7	235.7
155°	257.4	250.9	250.2	247.1	244.1
157.5°	261.5	257.0	256.2	253.3	250.3
160°	263.3	259.7	259.2	256.9	254.6
162.5°	265.2	262.6	262.2	260.5	258.8
165°	268.2	267.0	266.6	265.0	263.5
167.5°	270.4	269.3	269.2	268.4	267.7
170°	272.2	272.1	271.9	271.2	270.4
172.5°	272.3	272.3	272.3	272.1	271.9
175°	273.4	273.9	273.9	273.9	273.9
177.5°	273.5	273.9	273.9	273.9	273.9
180°	273.9	273.9	273.9	273.9	273.9



TEST NUMBER: P934068
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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	15.74	16.94	16.41	17.62	18.41	18.58	19.78	19.24	20.46	21.25
	3H	16.25	17.32	16.92	18.01	18.83	19.95	21.03	20.63	21.72	22.54
	4H	16.45	17.47	17.15	18.17	19.00	20.42	21.43	21.11	22.13	22.97
	6H	16.59	17.53	17.30	18.24	19.09	20.72	21.66	21.43	22.37	23.22
	8H	16.60	17.49	17.32	18.22	19.07	20.80	21.70	21.52	22.43	23.28
	12H	16.58	17.43	17.31	18.16	19.04	20.86	21.71	21.58	22.43	23.31
4H	2H	16.82	17.83	17.52	18.53	19.37	19.03	20.05	19.73	20.75	21.58
	3H	17.88	18.72	18.59	19.46	20.31	20.57	21.42	21.28	22.15	23.01
	4H	18.17	18.93	18.89	19.67	20.56	21.11	21.88	21.84	22.62	23.50
	6H	18.31	18.98	19.06	19.74	20.63	21.50	22.17	22.25	22.93	23.82
	8H	18.32	18.95	19.07	19.71	20.61	21.61	22.24	22.37	23.00	23.90
	12H	18.31	18.87	19.08	19.65	20.56	21.69	22.25	22.46	23.03	23.94
8H	4H	18.65	19.27	19.40	20.03	20.93	21.26	21.89	22.01	22.65	23.55
	6H	18.92	19.44	19.70	20.24	21.15	21.72	22.23	22.50	23.04	23.94
	8H	18.97	19.43	19.76	20.23	21.15	21.87	22.33	22.67	23.14	24.06
	12H	18.97	19.37	19.76	20.17	21.15	21.99	22.39	22.78	23.19	24.17
12H	4H	18.67	19.23	19.44	20.01	20.92	21.24	21.80	22.02	22.59	23.50
	6H	18.99	19.45	19.78	20.25	21.17	21.72	22.18	22.51	22.98	23.90
	8H	19.07	19.47	19.86	20.27	21.25	21.89	22.30	22.69	23.09	24.07