

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: P934012

Luminaire Tested: SQ4-FA-025U-100D-830-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934012
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-830-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

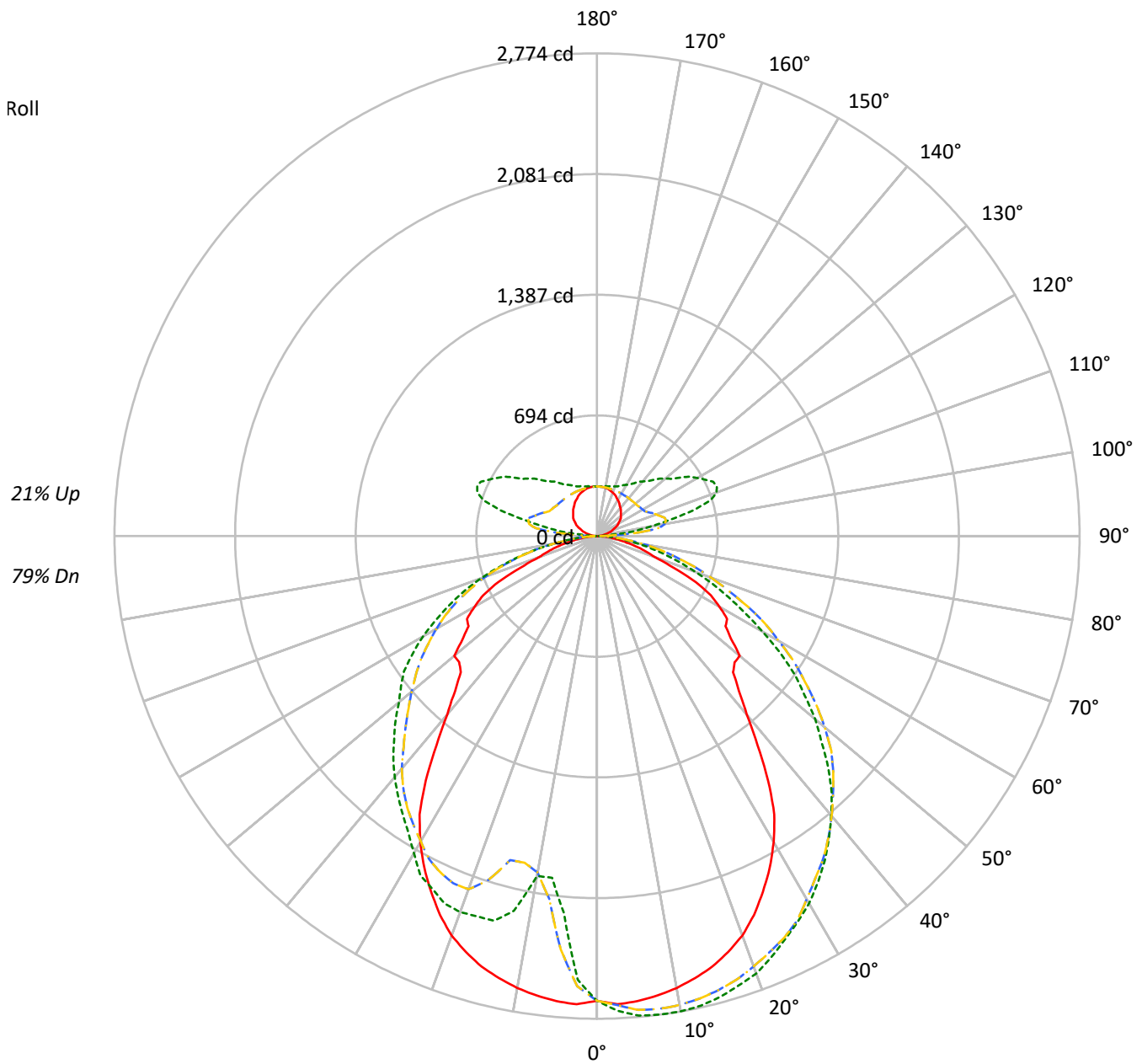
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8774.2 lumens
Efficiency: N/A
Efficacy: 113.1 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				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°	12389	12389	12389	12389
5°	12481	12506	12481	9834
10°	12398	12318	12398	8807
15°	12263	12052	12263	10064
20°	12007	11736	12007	10085
25°	11482	11274	11482	9871
30°	10803	10892	10803	9402
35°	9631	10408	9631	8886
40°	8025	9837	8025	8497
45°	7171	9170	7171	8048
50°	7618	8374	7618	7599
55°	7167	7517	7167	7339
60°	7389	6384	7389	6722
65°	6698	5277	6698	5899
70°	4637	4206	4637	4944
75°	4068	3109	4068	3723
80°	3278	2055	3278	2238
85°	1882	1088	1882	924

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10990 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	241.0	2.7
10°-20°	684.4	7.8
20°-30°	1057.9	12.1
30°-40°	1262.9	14.4
40°-50°	1270.3	14.5
50°-60°	1105.3	12.6
60°-70°	783.7	8.9
70°-80°	414.6	4.7
80°-90°	104.3	1.2
90°-100°	139.1	1.6
100°-110°	365.7	4.2
110°-120°	379.2	4.3
120°-130°	304.1	3.5
130°-140°	238.6	2.7
140°-150°	183.2	2.1
150°-160°	131.9	1.5
160°-170°	80.7	0.9
170°-180°	27.3	0.3
0°-30°	1983.3	22.6
0°-40°	3246.2	37.0
0°-60°	5621.8	64.1
0°-90°	6924.4	78.9
90°-120°	883.9	10.1
90°-150°	1609.9	18.3
90°-180°	1850.0	21.1
0°-180°	8774.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2670	2670	2670	2670	2670	
5°	2683	2766	2683	2175	2683	255
15°	2562	2741	2562	2289	2562	721
25°	2256	2556	2256	2238	2256	1036
35°	1715	2281	1715	1948	1715	1061
45°	1106	1880	1106	1650	1106	886
55°	902	1387	902	1354	902	829
65°	626	836	626	935	626	599
75°	238	397	238	475	238	250
85°	40	101	40	86	40	55
90°	2	7	2	7	2	3
95°	18	84	18	84	18	20
105°	66	572	66	572	66	70
115°	117	737	117	737	117	116
125°	163	587	163	587	163	144
135°	194	456	194	456	194	150
145°	225	370	225	370	225	141
155°	254	318	254	318	254	117
165°	274	296	274	296	274	77
175°	285	287	285	287	285	27
180°	285	285	285	285	285	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2
2.5°	2693.0	2693.0	2708.1	2713.1	2713.1	2705.6	2698.0	2705.6	2728.3	2735.9	2733.4
5°	2682.8	2703.0	2730.8	2735.9	2740.9	2738.4	2733.4	2738.4	2763.7	2768.8	2771.3
7.5°	2662.7	2700.5	2735.9	2743.4	2751.1	2743.4	2740.9	2746.0	2771.3	2776.3	2776.3
10°	2637.3	2690.4	2730.8	2735.9	2743.4	2735.9	2735.9	2746.0	2771.3	2776.3	2778.8
12.5°	2601.9	2675.3	2713.1	2718.2	2728.3	2725.7	2723.3	2733.4	2758.6	2763.7	2763.7
15°	2561.6	2647.5	2682.8	2687.9	2705.6	2700.5	2700.5	2710.6	2738.4	2746.0	2743.4
17.5°	2506.0	2612.1	2652.5	2660.1	2672.7	2670.2	2672.7	2682.8	2708.1	2713.1	2715.7
20°	2442.9	2564.1	2612.1	2619.6	2632.3	2632.3	2632.3	2645.0	2670.2	2680.3	2680.3
22.5°	2356.9	2513.6	2564.1	2569.2	2584.3	2584.3	2589.3	2607.0	2629.8	2632.3	2632.3
25°	2255.9	2458.0	2500.9	2516.1	2531.3	2538.8	2546.4	2556.5	2564.1	2561.6	2564.1
27.5°	2149.8	2387.2	2442.9	2452.9	2473.2	2480.7	2490.9	2493.3	2495.9	2503.5	2498.4
30°	2031.0	2288.8	2372.1	2382.3	2415.0	2420.1	2410.0	2415.0	2427.7	2432.7	2437.8
32.5°	1897.2	2142.2	2298.9	2321.6	2351.9	2336.8	2334.2	2341.8	2362.0	2362.0	2367.1
35°	1715.3	2028.5	2230.6	2250.8	2273.6	2255.9	2266.0	2268.5	2281.2	2288.8	2286.2
37.5°	1515.7	1930.0	2159.9	2175.1	2192.8	2170.0	2185.1	2192.8	2202.8	2197.8	2197.8
40°	1338.9	1776.0	2076.5	2086.7	2101.8	2084.1	2099.3	2104.3	2109.4	2104.3	2101.8
42.5°	1207.5	1606.7	1988.1	2000.7	1990.7	2003.3	2008.4	2018.4	2010.9	2000.7	2000.7
45°	1106.5	1561.1	1892.1	1907.3	1892.1	1912.4	1919.9	1919.9	1897.2	1892.1	1889.6
47.5°	1073.7	1470.2	1796.1	1796.1	1788.6	1813.8	1826.4	1808.8	1786.0	1778.4	1778.4
50°	1071.1	1369.2	1664.8	1654.6	1690.0	1720.3	1707.7	1690.0	1672.3	1644.5	1644.5
52.5°	972.6	1245.4	1495.5	1533.4	1589.0	1606.7	1586.5	1568.8	1538.5	1525.9	1515.7
55°	901.9	1116.6	1341.5	1417.2	1475.3	1498.1	1460.1	1442.5	1397.0	1389.5	1384.4
57.5°	886.7	929.6	1200.0	1296.0	1366.7	1364.1	1341.5	1308.6	1270.7	1263.1	1260.6
60°	813.5	672.0	1048.3	1162.0	1235.3	1227.7	1207.5	1177.2	1141.8	1136.8	1131.7
62.5°	737.6	487.6	876.6	1005.4	1109.0	1106.5	1088.8	1043.3	1018.0	1005.4	995.3
65°	626.5	409.3	624.0	836.2	985.3	990.2	952.4	919.6	891.8	876.6	874.1
67.5°	477.4	333.5	421.9	697.2	866.5	861.5	813.5	798.3	762.9	755.3	740.1
70°	353.6	222.3	293.0	565.9	750.3	737.6	699.8	682.1	649.2	631.5	621.4
72.5°	293.0	179.3	214.7	439.6	631.5	616.4	583.5	563.4	535.6	520.4	510.3
75°	237.5	189.5	164.2	325.9	512.8	502.8	472.4	452.2	429.4	409.3	411.7
77.5°	174.3	176.9	131.4	240.0	406.7	391.6	373.9	348.7	338.5	318.3	318.3
80°	131.4	138.9	98.6	164.2	293.0	293.0	277.9	260.2	242.5	232.4	232.4
82.5°	88.4	88.4	73.2	103.5	199.6	192.0	181.9	176.9	166.7	161.7	161.7
85°	40.4	50.5	45.5	63.2	108.6	113.7	113.7	108.6	106.1	101.0	103.5
87.5°	12.6	22.8	27.8	35.4	55.5	58.1	60.6	60.6	60.6	63.2	63.2
90°	1.9	3.4	5.0	5.4	8.4	12.5	14.5	12.9	9.7	7.3	7.3
92.5°	7.6	20.6	33.7	37.0	52.0	72.0	81.9	71.8	51.6	36.4	35.0
95°	18.4	42.2	66.1	72.0	127.8	202.3	239.6	213.8	162.2	123.5	119.1
97.5°	31.8	52.9	73.8	79.1	172.2	296.4	358.5	342.2	309.6	285.2	276.9
100°	42.2	61.2	80.2	85.0	188.3	326.1	395.0	396.3	398.7	400.5	390.5
102.5°	51.0	68.7	86.5	90.9	195.8	335.6	405.4	426.2	467.7	498.8	490.3
105°	65.9	81.0	96.1	99.8	201.3	336.6	404.3	450.8	544.0	613.8	609.2
107.5°	81.2	95.2	109.3	112.8	202.3	321.6	381.3	446.2	576.1	673.5	674.6
110°	91.6	104.2	116.9	120.1	200.8	308.3	362.1	434.7	579.9	688.8	693.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	101.7	113.8	125.8	128.9	200.9	296.7	344.7	419.0	567.6	679.0	686.4
115°	117.0	128.1	139.3	142.1	202.7	283.5	323.8	395.4	538.6	646.0	656.1
117.5°	132.1	142.3	152.4	155.0	206.5	275.1	309.5	374.1	503.2	600.2	611.5
120°	140.9	150.5	160.0	162.4	209.6	272.4	303.7	362.7	480.8	569.3	580.2
122.5°	149.5	159.2	168.8	171.2	214.0	270.8	299.3	352.5	458.8	538.5	549.3
125°	162.8	171.6	180.3	182.5	219.9	269.7	294.5	339.7	430.0	497.7	507.6
127.5°	173.5	182.3	191.2	193.4	225.8	268.9	290.5	329.3	406.9	465.0	473.4
130°	179.2	188.8	198.3	200.7	230.1	269.4	289.0	323.5	392.5	444.3	452.0
132.5°	185.2	194.7	204.2	206.6	233.6	269.7	287.7	318.5	380.3	426.7	433.6
135°	194.0	202.7	211.4	213.6	237.5	269.4	285.4	311.3	363.0	401.8	407.7
137.5°	203.0	211.6	220.2	222.4	243.2	271.0	285.0	306.9	350.6	383.4	388.2
140°	210.4	218.4	226.3	228.3	246.7	271.3	283.6	302.6	340.3	368.6	373.2
142.5°	216.2	223.5	230.9	232.7	249.7	272.4	283.6	300.3	333.5	358.3	362.2
145°	225.0	231.4	237.8	239.4	253.5	272.4	281.7	295.3	322.5	342.8	345.8
147.5°	233.8	240.1	246.3	247.8	259.1	274.2	281.7	292.4	313.8	329.7	332.2
150°	239.6	245.2	250.8	252.2	262.0	275.1	281.7	290.7	308.8	322.3	324.3
152.5°	245.5	249.7	254.0	255.1	264.0	275.8	281.7	289.4	304.8	316.3	317.9
155°	254.3	257.5	260.6	261.4	268.2	277.2	281.7	287.9	300.1	309.3	310.2
157.5°	260.8	263.9	266.9	267.7	272.4	278.6	281.7	286.5	296.0	303.1	303.8
160°	265.2	267.6	270.0	270.5	274.3	279.2	281.7	285.8	294.0	300.1	300.5
162.5°	269.6	271.4	273.1	273.6	276.3	279.9	281.7	285.2	292.1	297.2	297.6
165°	274.5	276.1	277.7	278.1	279.3	281.0	281.7	284.2	289.1	292.8	293.2
167.5°	278.9	279.6	280.4	280.6	281.6	283.0	283.6	285.3	288.5	290.9	291.1
170°	281.7	282.5	283.3	283.5	283.5	283.6	283.6	285.3	288.5	290.9	290.9
172.5°	283.3	283.5	283.6	283.6	283.6	283.6	283.6	284.9	287.5	289.4	289.2
175°	285.4	285.4	285.4	285.4	284.8	284.0	283.6	284.4	286.0	287.3	287.3
177.5°	285.4	285.4	285.4	285.4	284.9	284.3	284.0	284.7	285.9	286.9	286.7
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2
2.5°	2738.4	2730.8	2738.4	2733.4	2735.9	2728.3	2705.6	2698.0	2705.6	2713.1	2713.1
5°	2771.3	2766.2	2771.3	2771.3	2768.8	2763.7	2738.4	2733.4	2738.4	2740.9	2735.9
7.5°	2781.4	2773.7	2781.4	2776.3	2776.3	2771.3	2746.0	2740.9	2743.4	2751.1	2743.4
10°	2781.4	2773.7	2781.4	2778.8	2776.3	2771.3	2746.0	2735.9	2735.9	2743.4	2735.9
12.5°	2768.8	2763.7	2768.8	2763.7	2763.7	2758.6	2733.4	2723.3	2725.7	2728.3	2718.2
15°	2748.5	2740.9	2748.5	2743.4	2746.0	2738.4	2710.6	2700.5	2700.5	2705.6	2687.9
17.5°	2718.2	2708.1	2718.2	2715.7	2713.1	2708.1	2682.8	2672.7	2670.2	2672.7	2660.1
20°	2682.8	2675.3	2682.8	2680.3	2680.3	2670.2	2645.0	2632.3	2632.3	2632.3	2619.6
22.5°	2627.3	2619.6	2627.3	2632.3	2632.3	2629.8	2607.0	2589.3	2584.3	2584.3	2569.2
25°	2564.1	2556.5	2564.1	2564.1	2561.6	2564.1	2556.5	2546.4	2538.8	2531.3	2516.1
27.5°	2503.5	2498.4	2503.5	2498.4	2503.5	2495.9	2493.3	2490.9	2480.7	2473.2	2452.9
30°	2442.9	2437.8	2442.9	2437.8	2432.7	2427.7	2415.0	2410.0	2420.1	2415.0	2382.3
32.5°	2367.1	2362.0	2367.1	2367.1	2362.0	2362.0	2341.8	2334.2	2336.8	2351.9	2321.6
35°	2288.8	2281.2	2288.8	2286.2	2288.8	2281.2	2268.5	2266.0	2255.9	2273.6	2250.8
37.5°	2197.8	2190.2	2197.8	2197.8	2197.8	2202.8	2192.8	2185.1	2170.0	2192.8	2175.1
40°	2104.3	2094.2	2104.3	2101.8	2104.3	2109.4	2104.3	2099.3	2084.1	2101.8	2086.7
42.5°	1998.2	1995.7	1998.2	2000.7	2000.7	2010.9	2018.4	2008.4	2003.3	1990.7	2000.7
45°	1884.6	1879.5	1884.6	1889.6	1892.1	1897.2	1919.9	1919.9	1912.4	1892.1	1907.3
47.5°	1763.2	1750.6	1763.2	1778.4	1778.4	1786.0	1808.8	1826.4	1813.8	1788.6	1796.1
50°	1634.5	1637.0	1634.5	1644.5	1644.5	1672.3	1690.0	1707.7	1720.3	1690.0	1654.6
52.5°	1508.2	1505.6	1508.2	1515.7	1525.9	1538.5	1568.8	1586.5	1606.7	1589.0	1533.4
55°	1381.8	1386.9	1381.8	1384.4	1389.5	1397.0	1442.5	1460.1	1498.1	1475.3	1417.2
57.5°	1255.5	1248.0	1255.5	1260.6	1263.1	1270.7	1308.6	1341.5	1364.1	1366.7	1296.0
60°	1109.0	1098.9	1109.0	1131.7	1136.8	1141.8	1177.2	1207.5	1227.7	1235.3	1162.0
62.5°	980.2	962.5	980.2	995.3	1005.4	1018.0	1043.3	1088.8	1106.5	1109.0	1005.4
65°	843.8	836.2	843.8	874.1	876.6	891.8	919.6	952.4	990.2	985.3	836.2
67.5°	720.0	720.0	720.0	740.1	755.3	762.9	798.3	813.5	861.5	866.5	697.2
70°	606.3	603.8	606.3	621.4	631.5	649.2	682.1	699.8	737.6	750.3	565.9
72.5°	497.7	495.1	497.7	510.3	520.4	535.6	563.4	583.5	616.4	631.5	439.6
75°	401.7	396.6	401.7	411.7	409.3	429.4	452.2	472.4	502.8	512.8	325.9
77.5°	308.2	308.2	308.2	318.3	318.3	338.5	348.7	373.9	391.6	406.7	240.0
80°	229.9	227.3	229.9	232.4	232.4	242.5	260.2	277.9	293.0	293.0	164.2
82.5°	161.7	156.6	161.7	161.7	161.7	166.7	176.9	181.9	192.0	199.6	103.5
85°	101.0	101.0	101.0	103.5	101.0	106.1	108.6	113.7	113.7	108.6	63.2
87.5°	65.7	63.2	65.7	63.2	63.2	60.6	60.6	60.6	58.1	55.5	35.4
90°	7.3	7.3	7.3	7.3	7.3	9.7	12.9	14.5	12.5	8.4	5.4
92.5°	29.2	23.3	29.2	35.0	36.4	51.6	71.8	81.9	72.0	52.0	37.0
95°	101.6	84.0	101.6	119.1	123.5	162.2	213.8	239.6	202.3	127.8	72.0
97.5°	243.4	210.0	243.4	276.9	285.2	309.6	342.2	358.5	296.4	172.2	79.1
100°	350.8	311.0	350.8	390.5	400.5	398.7	396.3	395.0	326.1	188.3	85.0
102.5°	456.3	422.3	456.3	490.3	498.8	467.7	426.2	405.4	335.6	195.8	90.9
105°	590.9	572.5	590.9	609.2	613.8	544.0	450.8	404.3	336.6	201.3	99.8
107.5°	679.0	683.4	679.0	674.6	673.5	576.1	446.2	381.3	321.6	202.3	112.8
110°	712.6	731.7	712.6	693.6	688.8	579.9	434.7	362.1	308.3	200.8	120.1



TEST NUMBER: P934012

CATALOG NUMBER: SQ4-FA-025U-100D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	715.7	744.9	715.7	686.4	679.0	567.6	419.0	344.7	296.7	200.9	128.9
115°	696.7	737.3	696.7	656.1	646.0	538.6	395.4	323.8	283.5	202.7	142.1
117.5°	656.5	701.5	656.5	611.5	600.2	503.2	374.1	309.5	275.1	206.5	155.0
120°	624.0	667.8	624.0	580.2	569.3	480.8	362.7	303.7	272.4	209.6	162.4
122.5°	592.4	635.5	592.4	549.3	538.5	458.8	352.5	299.3	270.8	214.0	171.2
125°	547.4	587.2	547.4	507.6	497.7	430.0	339.7	294.5	269.7	219.9	182.5
127.5°	506.9	540.4	506.9	473.4	465.0	406.9	329.3	290.5	268.9	225.8	193.4
130°	483.0	513.9	483.0	452.0	444.3	392.5	323.5	289.0	269.4	230.1	200.7
132.5°	461.4	489.1	461.4	433.6	426.7	380.3	318.5	287.7	269.7	233.6	206.6
135°	431.6	455.5	431.6	407.7	401.8	363.0	311.3	285.4	269.4	237.5	213.6
137.5°	407.8	427.4	407.8	388.2	383.4	350.6	306.9	285.0	271.0	243.2	222.4
140°	391.5	409.8	391.5	373.2	368.6	340.3	302.6	283.6	271.3	246.7	228.3
142.5°	378.0	393.7	378.0	362.2	358.3	333.5	300.3	283.6	272.4	249.7	232.7
145°	357.7	369.6	357.7	345.8	342.8	322.5	295.3	281.7	272.4	253.5	239.4
147.5°	342.1	352.0	342.1	332.2	329.7	313.8	292.4	281.7	274.2	259.1	247.8
150°	332.3	340.3	332.3	324.3	322.3	308.8	290.7	281.7	275.1	262.0	252.2
152.5°	323.9	329.9	323.9	317.9	316.3	304.8	289.4	281.7	275.8	264.0	255.1
155°	314.2	318.3	314.2	310.2	309.3	300.1	287.9	281.7	277.2	268.2	261.4
157.5°	306.7	309.5	306.7	303.8	303.1	296.0	286.5	281.7	278.6	272.4	267.7
160°	302.1	303.7	302.1	300.5	300.1	294.0	285.8	281.7	279.2	274.3	270.5
162.5°	299.1	300.7	299.1	297.6	297.2	292.1	285.2	281.7	279.9	276.3	273.6
165°	294.8	296.5	294.8	293.2	292.8	289.1	284.2	281.7	281.0	279.3	278.1
167.5°	291.8	292.4	291.8	291.1	290.9	288.5	285.3	283.6	283.0	281.6	280.6
170°	290.9	290.9	290.9	290.9	290.9	288.5	285.3	283.6	283.6	283.5	283.5
172.5°	288.6	288.0	288.6	289.2	289.4	287.5	284.9	283.6	283.6	283.6	283.6
175°	287.3	287.3	287.3	287.3	287.3	286.0	284.4	283.6	284.0	284.8	285.4
177.5°	286.0	285.4	286.0	286.7	286.9	285.9	284.7	284.0	284.3	284.9	285.4
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



TEST NUMBER: P934012

CATALOG NUMBER: SQ4-FA-025U-100D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2
2.5°	2708.1	2693.0	2693.0	2667.7	2657.6	2650.0	2637.3	2599.5	2589.3	2579.3	2594.4
5°	2730.8	2703.0	2682.8	2637.3	2599.5	2584.3	2536.3	2445.4	2384.7	2339.2	2314.0
7.5°	2735.9	2700.5	2662.7	2591.9	2500.9	2460.6	2314.0	2147.3	2101.8	2061.4	2036.1
10°	2730.8	2690.4	2637.3	2531.3	2316.5	2245.8	2099.3	1990.7	1962.9	1955.3	1962.9
12.5°	2713.1	2675.3	2601.9	2425.2	2124.5	2076.5	1990.7	1927.5	1922.4	1935.0	2003.3
15°	2682.8	2647.5	2561.6	2283.7	2018.4	1983.0	1922.4	1899.7	1927.5	2015.9	2220.5
17.5°	2652.5	2612.1	2506.0	2144.8	1937.6	1912.4	1869.4	1914.9	2071.5	2190.2	2258.5
20°	2612.1	2564.1	2442.9	2043.7	1879.5	1856.7	1836.6	2041.2	2159.9	2202.8	2240.8
22.5°	2564.1	2513.6	2356.9	1973.0	1818.9	1801.2	1813.8	2111.9	2159.9	2190.2	2223.1
25°	2500.9	2458.0	2255.9	1917.4	1770.9	1750.6	1798.6	2104.3	2132.1	2139.7	2205.4
27.5°	2442.9	2387.2	2149.8	1866.9	1712.8	1705.2	1811.3	2071.5	2091.7	2099.3	2170.0
30°	2372.1	2288.8	2031.0	1813.8	1652.2	1649.6	1813.8	2031.0	2026.1	2046.2	2117.0
32.5°	2298.9	2142.2	1897.2	1748.1	1594.0	1591.5	1796.1	1970.4	1965.3	1993.2	2046.2
35°	2230.6	2028.5	1715.3	1672.3	1520.8	1523.3	1753.2	1899.7	1902.2	1927.5	1960.4
37.5°	2159.9	1930.0	1515.7	1589.0	1450.1	1450.1	1695.1	1834.0	1829.0	1836.6	1882.0
40°	2076.5	1776.0	1338.9	1480.4	1384.4	1376.7	1624.3	1763.2	1745.6	1743.1	1806.3
42.5°	1988.1	1606.7	1207.5	1336.4	1308.6	1298.4	1538.5	1677.4	1644.5	1652.2	1732.9
45°	1892.1	1561.1	1106.5	1129.2	1230.3	1222.7	1445.0	1578.8	1556.2	1576.3	1659.7
47.5°	1796.1	1470.2	1073.7	937.3	1146.9	1144.3	1341.5	1482.9	1470.2	1490.5	1578.8
50°	1664.8	1369.2	1071.1	803.3	1053.4	1063.6	1217.7	1389.5	1389.5	1407.1	1500.5
52.5°	1495.5	1245.4	972.6	727.5	944.8	975.1	1109.0	1308.6	1313.6	1331.3	1414.7
55°	1341.5	1116.6	901.9	669.5	815.9	881.6	1002.9	1225.2	1235.3	1253.0	1328.7
57.5°	1200.0	929.6	886.7	601.2	697.2	760.4	909.4	1144.3	1149.4	1164.6	1237.8
60°	1048.3	672.0	813.5	528.0	593.7	641.7	823.5	1048.3	1066.0	1076.2	1139.4
62.5°	876.6	487.6	737.6	477.4	543.1	553.2	752.8	957.4	980.2	987.7	1025.6
65°	624.0	409.3	626.5	434.5	490.0	492.6	677.0	863.9	884.2	896.8	924.5
67.5°	421.9	333.5	477.4	394.1	449.7	452.2	603.8	755.3	783.2	793.2	810.9
70°	293.0	222.3	353.6	351.1	404.2	409.3	525.4	656.8	682.1	689.7	699.8
72.5°	214.7	179.3	293.0	315.8	356.2	361.3	444.6	545.7	570.9	578.5	583.5
75°	164.2	189.5	237.5	275.3	303.1	305.6	363.8	444.6	462.3	467.4	469.9
77.5°	131.4	176.9	174.3	222.3	247.6	242.5	285.5	343.6	358.7	358.7	358.7
80°	98.6	138.9	131.4	159.2	181.9	176.9	204.6	245.0	250.1	255.2	252.6
82.5°	73.2	88.4	88.4	101.0	121.2	116.2	136.4	159.2	159.2	159.2	164.2
85°	45.5	50.5	40.4	53.1	68.2	65.7	75.8	85.8	88.4	88.4	83.4
87.5°	27.8	22.8	12.6	20.2	30.3	30.3	35.4	37.9	35.4	35.4	35.4
90°	5.0	3.4	1.9	3.4	5.0	5.4	8.4	12.5	14.5	12.9	9.7
92.5°	33.7	20.6	7.6	20.6	33.7	37.0	52.0	72.0	81.9	71.8	51.6
95°	66.1	42.2	18.4	42.2	66.1	72.0	127.8	202.3	239.6	213.8	162.2
97.5°	73.8	52.9	31.8	52.9	73.8	79.1	172.2	296.4	358.5	342.2	309.6
100°	80.2	61.2	42.2	61.2	80.2	85.0	188.3	326.1	395.0	396.3	398.7
102.5°	86.5	68.7	51.0	68.7	86.5	90.9	195.8	335.6	405.4	426.2	467.7
105°	96.1	81.0	65.9	81.0	96.1	99.8	201.3	336.6	404.3	450.8	544.0
107.5°	109.3	95.2	81.2	95.2	109.3	112.8	202.3	321.6	381.3	446.2	576.1
110°	116.9	104.2	91.6	104.2	116.9	120.1	200.8	308.3	362.1	434.7	579.9



TEST NUMBER: P934012

CATALOG NUMBER: SQ4-FA-025U-100D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	125.8	113.8	101.7	113.8	125.8	128.9	200.9	296.7	344.7	419.0	567.6
115°	139.3	128.1	117.0	128.1	139.3	142.1	202.7	283.5	323.8	395.4	538.6
117.5°	152.4	142.3	132.1	142.3	152.4	155.0	206.5	275.1	309.5	374.1	503.2
120°	160.0	150.5	140.9	150.5	160.0	162.4	209.6	272.4	303.7	362.7	480.8
122.5°	168.8	159.2	149.5	159.2	168.8	171.2	214.0	270.8	299.3	352.5	458.8
125°	180.3	171.6	162.8	171.6	180.3	182.5	219.9	269.7	294.5	339.7	430.0
127.5°	191.2	182.3	173.5	182.3	191.2	193.4	225.8	268.9	290.5	329.3	406.9
130°	198.3	188.8	179.2	188.8	198.3	200.7	230.1	269.4	289.0	323.5	392.5
132.5°	204.2	194.7	185.2	194.7	204.2	206.6	233.6	269.7	287.7	318.5	380.3
135°	211.4	202.7	194.0	202.7	211.4	213.6	237.5	269.4	285.4	311.3	363.0
137.5°	220.2	211.6	203.0	211.6	220.2	222.4	243.2	271.0	285.0	306.9	350.6
140°	226.3	218.4	210.4	218.4	226.3	228.3	246.7	271.3	283.6	302.6	340.3
142.5°	230.9	223.5	216.2	223.5	230.9	232.7	249.7	272.4	283.6	300.3	333.5
145°	237.8	231.4	225.0	231.4	237.8	239.4	253.5	272.4	281.7	295.3	322.5
147.5°	246.3	240.1	233.8	240.1	246.3	247.8	259.1	274.2	281.7	292.4	313.8
150°	250.8	245.2	239.6	245.2	250.8	252.2	262.0	275.1	281.7	290.7	308.8
152.5°	254.0	249.7	245.5	249.7	254.0	255.1	264.0	275.8	281.7	289.4	304.8
155°	260.6	257.5	254.3	257.5	260.6	261.4	268.2	277.2	281.7	287.9	300.1
157.5°	266.9	263.9	260.8	263.9	266.9	267.7	272.4	278.6	281.7	286.5	296.0
160°	270.0	267.6	265.2	267.6	270.0	270.5	274.3	279.2	281.7	285.8	294.0
162.5°	273.1	271.4	269.6	271.4	273.1	273.6	276.3	279.9	281.7	285.2	292.1
165°	277.7	276.1	274.5	276.1	277.7	278.1	279.3	281.0	281.7	284.2	289.1
167.5°	280.4	279.6	278.9	279.6	280.4	280.6	281.6	283.0	283.6	285.3	288.5
170°	283.3	282.5	281.7	282.5	283.3	283.5	283.5	283.6	283.6	285.3	288.5
172.5°	283.6	283.5	283.3	283.5	283.6	283.6	283.6	283.6	283.6	284.9	287.5
175°	285.4	285.4	285.4	285.4	285.4	285.4	284.8	284.0	283.6	284.4	286.0
177.5°	285.4	285.4	285.4	285.4	285.4	285.4	284.9	284.3	284.0	284.7	285.9
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



TEST NUMBER: P934012
 CATALOG NUMBER: SQ4-FA-025U-100D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2	2670.2
2.5°	2576.7	2569.2	2579.3	2551.5	2579.3	2569.2	2576.7	2594.4	2579.3	2589.3	2599.5
5°	2260.9	2248.3	2207.9	2175.1	2207.9	2248.3	2260.9	2314.0	2339.2	2384.7	2445.4
7.5°	2021.0	2010.9	2000.7	1980.5	2000.7	2010.9	2021.0	2036.1	2061.4	2101.8	2147.3
10°	1967.9	1970.4	1985.6	1983.0	1985.6	1970.4	1967.9	1962.9	1955.3	1962.9	1990.7
12.5°	2104.3	2127.1	2210.5	2205.4	2210.5	2127.1	2104.3	2003.3	1935.0	1922.4	1927.5
15°	2260.9	2268.5	2286.2	2288.8	2286.2	2268.5	2260.9	2220.5	2015.9	1927.5	1899.7
17.5°	2276.1	2278.6	2291.2	2291.2	2291.2	2278.6	2276.1	2258.5	2190.2	2071.5	1914.9
20°	2263.5	2268.5	2293.8	2298.9	2293.8	2268.5	2263.5	2240.8	2202.8	2159.9	2041.2
22.5°	2258.5	2268.5	2288.8	2286.2	2288.8	2268.5	2258.5	2223.1	2190.2	2159.9	2111.9
25°	2233.1	2233.1	2235.7	2238.2	2235.7	2233.1	2233.1	2205.4	2139.7	2132.1	2104.3
27.5°	2180.2	2185.1	2200.3	2197.8	2200.3	2185.1	2180.2	2170.0	2099.3	2091.7	2071.5
30°	2132.1	2127.1	2114.4	2104.3	2114.4	2127.1	2132.1	2117.0	2046.2	2026.1	2031.0
32.5°	2051.3	2038.7	2026.1	2018.4	2026.1	2038.7	2051.3	2046.2	1993.2	1965.3	1970.4
35°	1955.3	1957.8	1955.3	1947.7	1955.3	1957.8	1955.3	1960.4	1927.5	1902.2	1899.7
37.5°	1887.0	1892.1	1889.6	1879.5	1889.6	1892.1	1887.0	1882.0	1836.6	1829.0	1834.0
40°	1816.3	1818.9	1816.3	1808.8	1816.3	1818.9	1816.3	1806.3	1743.1	1745.6	1763.2
42.5°	1748.1	1745.6	1738.0	1732.9	1738.0	1745.6	1748.1	1732.9	1652.2	1644.5	1677.4
45°	1669.8	1672.3	1657.2	1649.6	1657.2	1672.3	1669.8	1659.7	1576.3	1556.2	1578.8
47.5°	1591.5	1591.5	1578.8	1571.3	1578.8	1591.5	1591.5	1578.8	1490.5	1470.2	1482.9
50°	1508.2	1505.6	1487.9	1485.4	1487.9	1505.6	1508.2	1500.5	1407.1	1389.5	1389.5
52.5°	1412.1	1412.1	1414.7	1419.8	1414.7	1412.1	1412.1	1414.7	1331.3	1313.6	1308.6
55°	1328.7	1331.3	1349.0	1354.1	1349.0	1331.3	1328.7	1328.7	1253.0	1235.3	1225.2
57.5°	1242.9	1242.9	1255.5	1255.5	1255.5	1242.9	1242.9	1237.8	1164.6	1149.4	1144.3
60°	1144.3	1149.4	1159.5	1157.0	1159.5	1149.4	1144.3	1139.4	1076.2	1066.0	1048.3
62.5°	1040.8	1045.9	1048.3	1043.3	1048.3	1045.9	1040.8	1025.6	987.7	980.2	957.4
65°	932.2	937.3	939.7	934.7	939.7	937.3	932.2	924.5	896.8	884.2	863.9
67.5°	821.0	818.5	815.9	826.1	815.9	818.5	821.0	810.9	793.2	783.2	755.3
70°	707.3	707.3	704.8	709.8	704.8	707.3	707.3	699.8	689.7	682.1	656.8
72.5°	586.1	583.5	593.7	586.1	593.7	583.5	586.1	583.5	578.5	570.9	545.7
75°	467.4	472.4	467.4	474.9	467.4	472.4	467.4	469.9	467.4	462.3	444.6
77.5°	356.2	361.3	356.2	356.2	356.2	361.3	356.2	358.7	358.7	358.7	343.6
80°	252.6	250.1	250.1	247.6	250.1	250.1	252.6	252.6	255.2	250.1	245.0
82.5°	161.7	159.2	159.2	164.2	159.2	159.2	161.7	164.2	159.2	159.2	159.2
85°	88.4	90.9	85.8	85.8	85.8	90.9	88.4	83.4	88.4	88.4	85.8
87.5°	32.9	30.3	30.3	30.3	30.3	30.3	32.9	35.4	35.4	35.4	37.9
90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.7	12.9	14.5	12.5
92.5°	36.4	35.0	29.2	23.3	29.2	35.0	36.4	51.6	71.8	81.9	72.0
95°	123.5	119.1	101.6	84.0	101.6	119.1	123.5	162.2	213.8	239.6	202.3
97.5°	285.2	276.9	243.4	210.0	243.4	276.9	285.2	309.6	342.2	358.5	296.4
100°	400.5	390.5	350.8	311.0	350.8	390.5	400.5	398.7	396.3	395.0	326.1
102.5°	498.8	490.3	456.3	422.3	456.3	490.3	498.8	467.7	426.2	405.4	335.6
105°	613.8	609.2	590.9	572.5	590.9	609.2	613.8	544.0	450.8	404.3	336.6
107.5°	673.5	674.6	679.0	683.4	679.0	674.6	673.5	576.1	446.2	381.3	321.6
110°	688.8	693.6	712.6	731.7	712.6	693.6	688.8	579.9	434.7	362.1	308.3



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	679.0	686.4	715.7	744.9	715.7	686.4	679.0	567.6	419.0	344.7	296.7
115°	646.0	656.1	696.7	737.3	696.7	656.1	646.0	538.6	395.4	323.8	283.5
117.5°	600.2	611.5	656.5	701.5	656.5	611.5	600.2	503.2	374.1	309.5	275.1
120°	569.3	580.2	624.0	667.8	624.0	580.2	569.3	480.8	362.7	303.7	272.4
122.5°	538.5	549.3	592.4	635.5	592.4	549.3	538.5	458.8	352.5	299.3	270.8
125°	497.7	507.6	547.4	587.2	547.4	507.6	497.7	430.0	339.7	294.5	269.7
127.5°	465.0	473.4	506.9	540.4	506.9	473.4	465.0	406.9	329.3	290.5	268.9
130°	444.3	452.0	483.0	513.9	483.0	452.0	444.3	392.5	323.5	289.0	269.4
132.5°	426.7	433.6	461.4	489.1	461.4	433.6	426.7	380.3	318.5	287.7	269.7
135°	401.8	407.7	431.6	455.5	431.6	407.7	401.8	363.0	311.3	285.4	269.4
137.5°	383.4	388.2	407.8	427.4	407.8	388.2	383.4	350.6	306.9	285.0	271.0
140°	368.6	373.2	391.5	409.8	391.5	373.2	368.6	340.3	302.6	283.6	271.3
142.5°	358.3	362.2	378.0	393.7	378.0	362.2	358.3	333.5	300.3	283.6	272.4
145°	342.8	345.8	357.7	369.6	357.7	345.8	342.8	322.5	295.3	281.7	272.4
147.5°	329.7	332.2	342.1	352.0	342.1	332.2	329.7	313.8	292.4	281.7	274.2
150°	322.3	324.3	332.3	340.3	332.3	324.3	322.3	308.8	290.7	281.7	275.1
152.5°	316.3	317.9	323.9	329.9	323.9	317.9	316.3	304.8	289.4	281.7	275.8
155°	309.3	310.2	314.2	318.3	314.2	310.2	309.3	300.1	287.9	281.7	277.2
157.5°	303.1	303.8	306.7	309.5	306.7	303.8	303.1	296.0	286.5	281.7	278.6
160°	300.1	300.5	302.1	303.7	302.1	300.5	300.1	294.0	285.8	281.7	279.2
162.5°	297.2	297.6	299.1	300.7	299.1	297.6	297.2	292.1	285.2	281.7	279.9
165°	292.8	293.2	294.8	296.5	294.8	293.2	292.8	289.1	284.2	281.7	281.0
167.5°	290.9	291.1	291.8	292.4	291.8	291.1	290.9	288.5	285.3	283.6	283.0
170°	290.9	290.9	290.9	290.9	290.9	290.9	290.9	288.5	285.3	283.6	283.6
172.5°	289.4	289.2	288.6	288.0	288.6	289.2	289.4	287.5	284.9	283.6	283.6
175°	287.3	287.3	287.3	287.3	287.3	287.3	287.3	286.0	284.4	283.6	284.0
177.5°	286.9	286.7	286.0	285.4	286.0	286.7	286.9	285.9	284.7	284.0	284.3
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2670.2	2670.2	2670.2	2670.2	2670.2
2.5°	2637.3	2650.0	2657.6	2667.7	2693.0
5°	2536.3	2584.3	2599.5	2637.3	2682.8
7.5°	2314.0	2460.6	2500.9	2591.9	2662.7
10°	2099.3	2245.8	2316.5	2531.3	2637.3
12.5°	1990.7	2076.5	2124.5	2425.2	2601.9
15°	1922.4	1983.0	2018.4	2283.7	2561.6
17.5°	1869.4	1912.4	1937.6	2144.8	2506.0
20°	1836.6	1856.7	1879.5	2043.7	2442.9
22.5°	1813.8	1801.2	1818.9	1973.0	2356.9
25°	1798.6	1750.6	1770.9	1917.4	2255.9
27.5°	1811.3	1705.2	1712.8	1866.9	2149.8
30°	1813.8	1649.6	1652.2	1813.8	2031.0
32.5°	1796.1	1591.5	1594.0	1748.1	1897.2
35°	1753.2	1523.3	1520.8	1672.3	1715.3
37.5°	1695.1	1450.1	1450.1	1589.0	1515.7
40°	1624.3	1376.7	1384.4	1480.4	1338.9
42.5°	1538.5	1298.4	1308.6	1336.4	1207.5
45°	1445.0	1222.7	1230.3	1129.2	1106.5
47.5°	1341.5	1144.3	1146.9	937.3	1073.7
50°	1217.7	1063.6	1053.4	803.3	1071.1
52.5°	1109.0	975.1	944.8	727.5	972.6
55°	1002.9	881.6	815.9	669.5	901.9
57.5°	909.4	760.4	697.2	601.2	886.7
60°	823.5	641.7	593.7	528.0	813.5
62.5°	752.8	553.2	543.1	477.4	737.6
65°	677.0	492.6	490.0	434.5	626.5
67.5°	603.8	452.2	449.7	394.1	477.4
70°	525.4	409.3	404.2	351.1	353.6
72.5°	444.6	361.3	356.2	315.8	293.0
75°	363.8	305.6	303.1	275.3	237.5
77.5°	285.5	242.5	247.6	222.3	174.3
80°	204.6	176.9	181.9	159.2	131.4
82.5°	136.4	116.2	121.2	101.0	88.4
85°	75.8	65.7	68.2	53.1	40.4
87.5°	35.4	30.3	30.3	20.2	12.6
90°	8.4	5.4	5.0	3.4	1.9
92.5°	52.0	37.0	33.7	20.6	7.6
95°	127.8	72.0	66.1	42.2	18.4
97.5°	172.2	79.1	73.8	52.9	31.8
100°	188.3	85.0	80.2	61.2	42.2
102.5°	195.8	90.9	86.5	68.7	51.0
105°	201.3	99.8	96.1	81.0	65.9
107.5°	202.3	112.8	109.3	95.2	81.2
110°	200.8	120.1	116.9	104.2	91.6



TEST NUMBER: P934012

CATALOG NUMBER: SQ4-FA-025U-100D-830-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	200.9	128.9	125.8	113.8	101.7
115°	202.7	142.1	139.3	128.1	117.0
117.5°	206.5	155.0	152.4	142.3	132.1
120°	209.6	162.4	160.0	150.5	140.9
122.5°	214.0	171.2	168.8	159.2	149.5
125°	219.9	182.5	180.3	171.6	162.8
127.5°	225.8	193.4	191.2	182.3	173.5
130°	230.1	200.7	198.3	188.8	179.2
132.5°	233.6	206.6	204.2	194.7	185.2
135°	237.5	213.6	211.4	202.7	194.0
137.5°	243.2	222.4	220.2	211.6	203.0
140°	246.7	228.3	226.3	218.4	210.4
142.5°	249.7	232.7	230.9	223.5	216.2
145°	253.5	239.4	237.8	231.4	225.0
147.5°	259.1	247.8	246.3	240.1	233.8
150°	262.0	252.2	250.8	245.2	239.6
152.5°	264.0	255.1	254.0	249.7	245.5
155°	268.2	261.4	260.6	257.5	254.3
157.5°	272.4	267.7	266.9	263.9	260.8
160°	274.3	270.5	270.0	267.6	265.2
162.5°	276.3	273.6	273.1	271.4	269.6
165°	279.3	278.1	277.7	276.1	274.5
167.5°	281.6	280.6	280.4	279.6	278.9
170°	283.5	283.5	283.3	282.5	281.7
172.5°	283.6	283.6	283.6	283.5	283.3
175°	284.8	285.4	285.4	285.4	285.4
177.5°	284.9	285.4	285.4	285.4	285.4
180°	285.4	285.4	285.4	285.4	285.4



TEST NUMBER: P934012
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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	15.89	17.08	16.55	17.76	18.55	18.72	19.92	19.39	20.60	21.39
	3H	16.39	17.47	17.06	18.15	18.98	20.10	21.17	20.77	21.86	22.68
	4H	16.59	17.61	17.29	18.31	19.14	20.56	21.57	21.25	22.27	23.11
	6H	16.73	17.67	17.44	18.38	19.23	20.86	21.80	21.57	22.51	23.36
	8H	16.74	17.63	17.46	18.36	19.22	20.95	21.84	21.67	22.57	23.42
	12H	16.72	17.58	17.45	18.30	19.18	21.00	21.85	21.72	22.57	23.45
4H	2H	16.96	17.98	17.66	18.68	19.51	19.17	20.19	19.87	20.89	21.72
	3H	18.02	18.87	18.73	19.60	20.46	20.71	21.56	21.42	22.30	23.15
	4H	18.31	19.08	19.04	19.82	20.70	21.26	22.02	21.98	22.76	23.65
	6H	18.45	19.12	19.20	19.88	20.77	21.64	22.31	22.39	23.07	23.96
	8H	18.47	19.09	19.22	19.85	20.75	21.76	22.38	22.51	23.14	24.04
	12H	18.45	19.01	19.22	19.79	20.70	21.83	22.39	22.60	23.18	24.08
8H	4H	18.79	19.41	19.54	20.17	21.08	21.41	22.03	22.16	22.79	23.69
	6H	19.07	19.58	19.85	20.38	21.29	21.86	22.37	22.64	23.18	24.08
	8H	19.11	19.57	19.90	20.37	21.30	22.01	22.47	22.81	23.28	24.20
	12H	19.11	19.52	19.91	20.31	21.29	22.13	22.54	22.92	23.33	24.31
12H	4H	18.81	19.37	19.58	20.16	21.07	21.39	21.95	22.16	22.73	23.64
	6H	19.13	19.59	19.92	20.39	21.31	21.86	22.32	22.65	23.12	24.04
	8H	19.21	19.62	20.01	20.41	21.39	22.04	22.44	22.83	23.23	24.22