

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: P934016

Luminaire Tested: SQ4-FA-025U-100D-835-1D-UNV-STD-W-8

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934016
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-835-1D-UNV-STD-W-8
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

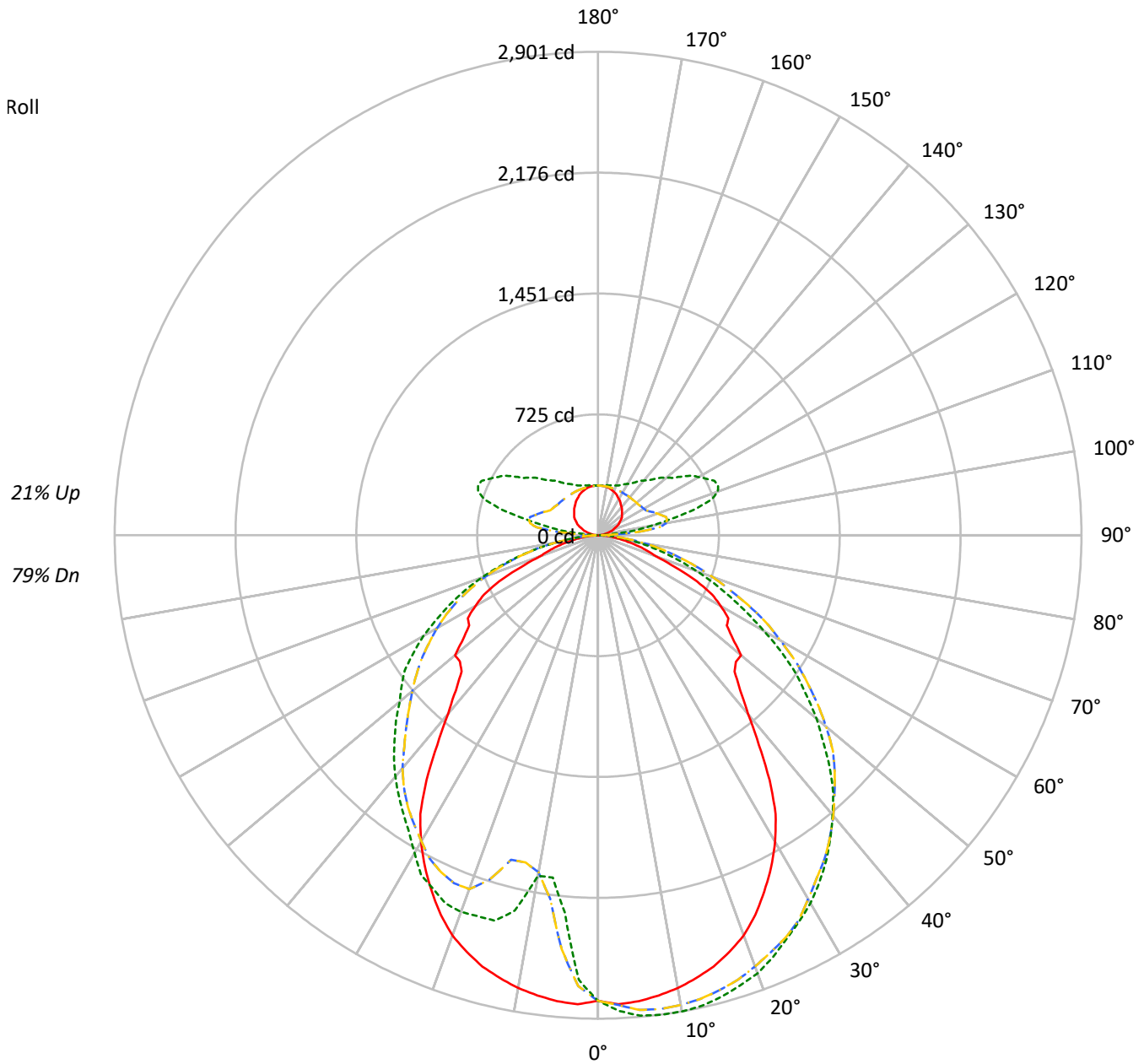
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9178.0 lumens
Efficiency: N/A
Efficacy: 118.3 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°	12959	12959	12959	12959
5°	13056	13081	13056	10286
10°	12968	12886	12968	9212
15°	12827	12607	12827	10527
20°	12559	12276	12559	10549
25°	12010	11794	12010	10325
30°	11300	11393	11300	9835
35°	10074	10887	10074	9295
40°	8394	10290	8394	8888
45°	7500	9592	7500	8419
50°	7968	8760	7968	7949
55°	7497	7863	7497	7677
60°	7728	6678	7728	7031
65°	7006	5520	7006	6170
70°	4851	4400	4851	5172
75°	4254	3252	4254	3894
80°	3428	2150	3428	2341
85°	1970	1139	1970	967

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11496 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	252.1	2.7
10°-20°	715.9	7.8
20°-30°	1106.6	12.1
30°-40°	1321.0	14.4
40°-50°	1328.8	14.5
50°-60°	1156.2	12.6
60°-70°	819.8	8.9
70°-80°	433.7	4.7
80°-90°	109.1	1.2
90°-100°	145.5	1.6
100°-110°	382.5	4.2
110°-120°	396.6	4.3
120°-130°	318.1	3.5
130°-140°	249.6	2.7
140°-150°	191.6	2.1
150°-160°	138.0	1.5
160°-170°	84.4	0.9
170°-180°	28.5	0.3
0°-30°	2074.6	22.6
0°-40°	3395.6	37.0
0°-60°	5880.5	64.1
0°-90°	7243.1	78.9
90°-120°	924.6	10.1
90°-150°	1684.0	18.3
90°-180°	1935.0	21.1
0°-180°	9178.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	2793	2793	2793	2793	2793	
5°	2806	2894	2806	2275	2806	266
15°	2680	2867	2680	2394	2680	754
25°	2360	2674	2360	2341	2360	1083
35°	1794	2386	1794	2037	1794	1110
45°	1157	1966	1157	1726	1157	927
55°	943	1451	943	1416	943	867
65°	655	875	655	978	655	626
75°	248	415	248	497	248	261
85°	42	106	42	90	42	57
90°	2	8	2	8	2	3
95°	19	88	19	88	19	21
105°	69	599	69	599	69	73
115°	122	771	122	771	122	121
125°	170	614	170	614	170	151
135°	203	476	203	476	203	157
145°	235	387	235	387	235	147
155°	266	333	266	333	266	122
165°	287	310	287	310	287	81
175°	298	300	298	300	298	28
180°	298	298	298	298	298	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1
2.5°	2816.9	2816.9	2832.7	2838.0	2838.0	2830.1	2822.2	2830.1	2853.9	2861.8	2859.2
5°	2806.3	2827.4	2856.5	2861.8	2867.1	2864.4	2859.2	2864.4	2890.9	2896.2	2898.8
7.5°	2785.2	2824.8	2861.8	2869.7	2877.7	2869.7	2867.1	2872.4	2898.8	2904.1	2904.1
10°	2758.7	2814.2	2856.5	2861.8	2869.7	2861.8	2861.8	2872.4	2898.8	2904.1	2906.7
12.5°	2721.7	2798.4	2838.0	2843.3	2853.9	2851.2	2848.6	2859.2	2885.6	2890.9	2890.9
15°	2679.5	2769.3	2806.3	2811.6	2830.1	2824.8	2824.8	2835.4	2864.4	2872.4	2869.7
17.5°	2621.3	2732.3	2774.6	2782.5	2795.7	2793.1	2795.7	2806.3	2832.7	2838.0	2840.7
20°	2555.3	2682.1	2732.3	2740.2	2753.5	2753.5	2753.5	2766.7	2793.1	2803.7	2803.7
22.5°	2465.4	2629.3	2682.1	2687.4	2703.2	2703.2	2708.5	2727.0	2750.8	2753.5	2753.5
25°	2359.7	2571.1	2616.0	2631.9	2647.8	2655.7	2663.6	2674.2	2682.1	2679.5	2682.1
27.5°	2248.7	2497.1	2555.3	2565.8	2587.0	2594.9	2605.5	2608.1	2610.8	2618.7	2613.4
30°	2124.5	2394.1	2481.3	2491.9	2526.2	2531.5	2520.9	2526.2	2539.4	2544.7	2550.0
32.5°	1984.5	2240.8	2404.7	2428.4	2460.1	2444.3	2441.6	2449.6	2470.7	2470.7	2476.0
35°	1794.2	2121.9	2333.3	2354.4	2378.2	2359.7	2370.3	2372.9	2386.2	2394.1	2391.4
37.5°	1585.5	2018.8	2259.3	2275.2	2293.7	2269.9	2285.7	2293.7	2304.2	2299.0	2299.0
40°	1400.5	1857.7	2172.1	2182.7	2198.5	2180.0	2195.9	2201.2	2206.5	2201.2	2198.5
42.5°	1263.1	1680.6	2079.6	2092.8	2082.3	2095.5	2100.8	2111.3	2103.4	2092.8	2092.8
45°	1157.4	1633.0	1979.2	1995.1	1979.2	2000.4	2008.3	2008.3	1984.5	1979.2	1976.6
47.5°	1123.1	1537.9	1878.8	1878.8	1870.9	1897.3	1910.5	1892.0	1868.2	1860.3	1860.3
50°	1120.4	1432.2	1741.4	1730.8	1767.8	1799.5	1786.3	1767.8	1749.3	1720.2	1720.2
52.5°	1017.4	1302.7	1564.3	1604.0	1662.1	1680.6	1659.5	1641.0	1609.3	1596.1	1585.5
55°	943.4	1168.0	1403.2	1482.4	1543.2	1567.0	1527.3	1508.9	1461.3	1453.4	1448.1
57.5°	927.5	972.4	1255.2	1355.6	1429.6	1426.9	1403.2	1368.8	1329.2	1321.2	1318.6
60°	850.9	702.9	1096.6	1215.5	1292.2	1284.2	1263.1	1231.4	1194.4	1189.1	1183.8
62.5°	771.6	510.0	916.9	1051.7	1160.0	1157.4	1138.9	1091.3	1064.9	1051.7	1041.1
65°	655.3	428.1	652.7	874.7	1030.6	1035.8	996.2	961.9	932.8	916.9	914.3
67.5°	499.4	348.8	441.3	729.3	906.4	901.1	850.9	835.0	798.0	790.1	774.2
70°	369.9	232.5	306.5	591.9	784.8	771.6	732.0	713.5	679.1	660.6	650.0
72.5°	306.5	187.6	224.6	459.8	660.6	644.8	610.4	589.3	560.2	544.3	533.8
75°	248.4	198.2	171.8	340.9	536.4	525.9	494.1	473.0	449.2	428.1	430.7
77.5°	182.3	185.0	137.4	251.0	425.4	409.6	391.1	364.7	354.1	333.0	333.0
80°	137.4	145.3	103.1	171.8	306.5	306.5	290.7	272.2	253.7	243.1	243.1
82.5°	92.5	92.5	76.6	108.3	208.8	200.8	190.3	185.0	174.4	169.1	169.1
85°	42.3	52.8	47.6	66.1	113.6	118.9	118.9	113.6	111.0	105.7	108.3
87.5°	13.2	23.8	29.1	37.0	58.1	60.8	63.4	63.4	63.4	66.1	66.1
90°	2.0	3.6	5.2	5.6	8.8	13.1	15.2	13.5	10.1	7.6	7.6
92.5°	8.0	21.6	35.3	38.7	54.4	75.3	85.7	75.1	54.0	38.1	36.6
95°	19.2	44.1	69.1	75.3	133.7	211.6	250.6	223.6	169.7	129.2	124.6
97.5°	33.3	55.3	77.2	82.7	180.1	310.0	375.0	358.0	323.9	298.3	289.6
100°	44.1	64.0	83.9	88.9	197.0	341.1	413.2	414.5	417.0	418.9	408.5
102.5°	53.3	71.9	90.5	95.1	204.8	351.0	424.1	445.8	489.2	521.8	512.9
105°	68.9	84.7	100.5	104.4	210.6	352.1	422.9	471.6	569.0	642.0	637.2
107.5°	84.9	99.6	114.3	118.0	211.6	336.4	398.8	466.7	602.6	704.5	705.7
110°	95.8	109.0	122.3	125.6	210.0	322.5	378.8	454.7	606.6	720.5	725.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	106.4	119.0	131.6	134.8	210.1	310.4	360.6	438.3	593.7	710.3	718.0
115°	122.4	134.0	145.7	148.6	212.0	296.5	338.7	413.6	563.4	675.7	686.3
117.5°	138.2	148.8	159.4	162.1	216.0	287.8	323.7	391.3	526.4	627.8	639.6
120°	147.4	157.4	167.4	169.9	219.2	284.9	317.7	379.4	502.9	595.5	606.9
122.5°	156.4	166.5	176.6	179.1	223.8	283.3	313.1	368.7	479.9	563.3	574.6
125°	170.3	179.5	188.6	190.9	230.0	282.1	308.1	355.3	449.8	520.6	531.0
127.5°	181.5	190.7	200.0	202.3	236.2	281.3	303.9	344.5	425.6	486.4	495.2
130°	187.5	197.5	207.4	209.9	240.7	281.8	302.3	338.4	410.6	464.7	472.8
132.5°	193.7	203.7	213.6	216.1	244.4	282.1	300.9	333.2	397.8	446.3	453.6
135°	202.9	212.0	221.1	223.4	248.4	281.8	298.5	325.6	379.7	420.3	426.5
137.5°	212.3	221.3	230.3	232.6	254.4	283.5	298.1	321.0	366.7	401.0	406.1
140°	220.1	228.4	236.7	238.8	258.1	283.8	296.7	316.5	356.0	385.6	390.4
142.5°	226.2	233.8	241.5	243.4	261.2	284.9	296.7	314.1	348.8	374.8	378.9
145°	235.4	242.1	248.7	250.4	265.2	284.9	294.7	308.9	337.3	358.6	361.7
147.5°	244.6	251.1	257.6	259.2	271.0	286.8	294.7	305.9	328.2	344.9	347.5
150°	250.6	256.5	262.3	263.8	274.1	287.8	294.7	304.1	323.0	337.1	339.2
152.5°	256.8	261.2	265.7	266.8	276.1	288.5	294.7	302.7	318.8	330.9	332.5
155°	266.0	269.3	272.6	273.4	280.5	290.0	294.7	301.1	313.9	323.5	324.5
157.5°	272.8	276.0	279.2	280.0	284.9	291.4	294.7	299.7	309.6	317.1	317.8
160°	277.4	279.9	282.4	283.0	286.9	292.1	294.7	299.0	307.5	313.9	314.3
162.5°	282.0	283.9	285.7	286.2	289.0	292.8	294.7	298.3	305.5	310.9	311.3
165°	287.1	288.8	290.5	290.9	292.2	293.9	294.7	297.3	302.4	306.3	306.7
167.5°	291.7	292.5	293.3	293.5	294.6	296.0	296.7	298.4	301.8	304.3	304.5
170°	294.7	295.5	296.3	296.5	296.6	296.7	296.7	298.4	301.8	304.3	304.3
172.5°	296.3	296.5	296.7	296.7	296.7	296.7	296.7	298.0	300.7	302.7	302.5
175°	298.5	298.5	298.5	298.5	297.9	297.1	296.7	297.5	299.2	300.5	300.5
177.5°	298.5	298.5	298.5	298.5	298.0	297.4	297.1	297.8	299.1	300.1	299.9
180°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1
2.5°	2864.4	2856.5	2864.4	2859.2	2861.8	2853.9	2830.1	2822.2	2830.1	2838.0	2838.0
5°	2898.8	2893.5	2898.8	2898.8	2896.2	2890.9	2864.4	2859.2	2864.4	2867.1	2861.8
7.5°	2909.4	2901.4	2909.4	2904.1	2904.1	2898.8	2872.4	2867.1	2869.7	2877.7	2869.7
10°	2909.4	2901.4	2909.4	2906.7	2904.1	2898.8	2872.4	2861.8	2861.8	2869.7	2861.8
12.5°	2896.2	2890.9	2896.2	2890.9	2890.9	2885.6	2859.2	2848.6	2851.2	2853.9	2843.3
15°	2875.0	2867.1	2875.0	2869.7	2872.4	2864.4	2835.4	2824.8	2824.8	2830.1	2811.6
17.5°	2843.3	2832.7	2843.3	2840.7	2838.0	2832.7	2806.3	2795.7	2793.1	2795.7	2782.5
20°	2806.3	2798.4	2806.3	2803.7	2803.7	2793.1	2766.7	2753.5	2753.5	2753.5	2740.2
22.5°	2748.2	2740.2	2748.2	2753.5	2753.5	2750.8	2727.0	2708.5	2703.2	2703.2	2687.4
25°	2682.1	2674.2	2682.1	2682.1	2679.5	2682.1	2674.2	2663.6	2655.7	2647.8	2631.9
27.5°	2618.7	2613.4	2618.7	2613.4	2618.7	2610.8	2608.1	2605.5	2594.9	2587.0	2565.8
30°	2555.3	2550.0	2555.3	2550.0	2544.7	2539.4	2526.2	2520.9	2531.5	2526.2	2491.9
32.5°	2476.0	2470.7	2476.0	2476.0	2470.7	2470.7	2449.6	2441.6	2444.3	2460.1	2428.4
35°	2394.1	2386.2	2394.1	2391.4	2394.1	2386.2	2372.9	2370.3	2359.7	2378.2	2354.4
37.5°	2299.0	2291.0	2299.0	2299.0	2299.0	2304.2	2293.7	2285.7	2269.9	2293.7	2275.2
40°	2201.2	2190.6	2201.2	2198.5	2201.2	2206.5	2201.2	2195.9	2180.0	2198.5	2182.7
42.5°	2090.2	2087.6	2090.2	2092.8	2092.8	2103.4	2111.3	2100.8	2095.5	2082.3	2092.8
45°	1971.3	1966.0	1971.3	1976.6	1979.2	1984.5	2008.3	2008.3	2000.4	1979.2	1995.1
47.5°	1844.4	1831.2	1844.4	1860.3	1860.3	1868.2	1892.0	1910.5	1897.3	1870.9	1878.8
50°	1709.7	1712.3	1709.7	1720.2	1720.2	1749.3	1767.8	1786.3	1799.5	1767.8	1730.8
52.5°	1577.6	1574.9	1577.6	1585.5	1596.1	1609.3	1641.0	1659.5	1680.6	1662.1	1604.0
55°	1445.4	1450.7	1445.4	1448.1	1453.4	1461.3	1508.9	1527.3	1567.0	1543.2	1482.4
57.5°	1313.3	1305.4	1313.3	1318.6	1321.2	1329.2	1368.8	1403.2	1426.9	1429.6	1355.6
60°	1160.0	1149.5	1160.0	1183.8	1189.1	1194.4	1231.4	1263.1	1284.2	1292.2	1215.5
62.5°	1025.3	1006.8	1025.3	1041.1	1051.7	1064.9	1091.3	1138.9	1157.4	1160.0	1051.7
65°	882.6	874.7	882.6	914.3	916.9	932.8	961.9	996.2	1035.8	1030.6	874.7
67.5°	753.1	753.1	753.1	774.2	790.1	798.0	835.0	850.9	901.1	906.4	729.3
70°	634.2	631.6	634.2	650.0	660.6	679.1	713.5	732.0	771.6	784.8	591.9
72.5°	520.6	517.9	520.6	533.8	544.3	560.2	589.3	610.4	644.8	660.6	459.8
75°	420.2	414.9	420.2	430.7	428.1	449.2	473.0	494.1	525.9	536.4	340.9
77.5°	322.4	322.4	322.4	333.0	333.0	354.1	364.7	391.1	409.6	425.4	251.0
80°	240.5	237.8	240.5	243.1	243.1	253.7	272.2	290.7	306.5	306.5	171.8
82.5°	169.1	163.8	169.1	169.1	169.1	174.4	185.0	190.3	200.8	208.8	108.3
85°	105.7	105.7	105.7	108.3	105.7	111.0	113.6	118.9	118.9	113.6	66.1
87.5°	68.7	66.1	68.7	66.1	66.1	63.4	63.4	63.4	60.8	58.1	37.0
90°	7.6	7.6	7.6	7.6	7.6	10.1	13.5	15.2	13.1	8.8	5.6
92.5°	30.5	24.4	30.5	36.6	38.1	54.0	75.1	85.7	75.3	54.4	38.7
95°	106.3	87.9	106.3	124.6	129.2	169.7	223.6	250.6	211.6	133.7	75.3
97.5°	254.6	219.7	254.6	289.6	298.3	323.9	358.0	375.0	310.0	180.1	82.7
100°	366.9	325.3	366.9	408.5	418.9	417.0	414.5	413.2	341.1	197.0	88.9
102.5°	477.3	441.7	477.3	512.9	521.8	489.2	445.8	424.1	351.0	204.8	95.1
105°	618.1	598.9	618.1	637.2	642.0	569.0	471.6	422.9	352.1	210.6	104.4
107.5°	710.3	714.9	710.3	705.7	704.5	602.6	466.7	398.8	336.4	211.6	118.0
110°	745.4	765.4	745.4	725.5	720.5	606.6	454.7	378.8	322.5	210.0	125.6



TEST NUMBER: P934016

CATALOG NUMBER: SQ4-FA-025U-100D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	748.6	779.2	748.6	718.0	710.3	593.7	438.3	360.6	310.4	210.1	134.8
115°	728.8	771.2	728.8	686.3	675.7	563.4	413.6	338.7	296.5	212.0	148.6
117.5°	686.7	733.8	686.7	639.6	627.8	526.4	391.3	323.7	287.8	216.0	162.1
120°	652.7	698.5	652.7	606.9	595.5	502.9	379.4	317.7	284.9	219.2	169.9
122.5°	619.7	664.8	619.7	574.6	563.3	479.9	368.7	313.1	283.3	223.8	179.1
125°	572.6	614.2	572.6	531.0	520.6	449.8	355.3	308.1	282.1	230.0	190.9
127.5°	530.2	565.3	530.2	495.2	486.4	425.6	344.5	303.9	281.3	236.2	202.3
130°	505.2	537.6	505.2	472.8	464.7	410.6	338.4	302.3	281.8	240.7	209.9
132.5°	482.6	511.6	482.6	453.6	446.3	397.8	333.2	300.9	282.1	244.4	216.1
135°	451.5	476.5	451.5	426.5	420.3	379.7	325.6	298.5	281.8	248.4	223.4
137.5°	426.6	447.1	426.6	406.1	401.0	366.7	321.0	298.1	283.5	254.4	232.6
140°	409.5	428.7	409.5	390.4	385.6	356.0	316.5	296.7	283.8	258.1	238.8
142.5°	395.4	411.8	395.4	378.9	374.8	348.8	314.1	296.7	284.9	261.2	243.4
145°	374.2	386.6	374.2	361.7	358.6	337.3	308.9	294.7	284.9	265.2	250.4
147.5°	357.8	368.2	357.8	347.5	344.9	328.2	305.9	294.7	286.8	271.0	259.2
150°	347.6	356.0	347.6	339.2	337.1	323.0	304.1	294.7	287.8	274.1	263.8
152.5°	338.8	345.1	338.8	332.5	330.9	318.8	302.7	294.7	288.5	276.1	266.8
155°	328.7	332.9	328.7	324.5	323.5	313.9	301.1	294.7	290.0	280.5	273.4
157.5°	320.8	323.7	320.8	317.8	317.1	309.6	299.7	294.7	291.4	284.9	280.0
160°	316.0	317.7	316.0	314.3	313.9	307.5	299.0	294.7	292.1	286.9	283.0
162.5°	312.9	314.5	312.9	311.3	310.9	305.5	298.3	294.7	292.8	289.0	286.2
165°	308.4	310.1	308.4	306.7	306.3	302.4	297.3	294.7	293.9	292.2	290.9
167.5°	305.2	305.9	305.2	304.5	304.3	301.8	298.4	296.7	296.0	294.6	293.5
170°	304.3	304.3	304.3	304.3	304.3	301.8	298.4	296.7	296.7	296.6	296.5
172.5°	301.9	301.3	301.9	302.5	302.7	300.7	298.0	296.7	296.7	296.7	296.7
175°	300.5	300.5	300.5	300.5	300.5	299.2	297.5	296.7	297.1	297.9	298.5
177.5°	299.2	298.5	299.2	299.9	300.1	299.1	297.8	297.1	297.4	298.0	298.5
180°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5



TEST NUMBER: P934016
 CATALOG NUMBER: SQ4-FA-025U-100D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1
2.5°	2832.7	2816.9	2816.9	2790.5	2779.9	2772.0	2758.7	2719.1	2708.5	2698.0	2713.8
5°	2856.5	2827.4	2806.3	2758.7	2719.1	2703.2	2653.0	2557.9	2494.5	2446.9	2420.5
7.5°	2861.8	2824.8	2785.2	2711.2	2616.0	2573.8	2420.5	2246.1	2198.5	2156.3	2129.8
10°	2856.5	2814.2	2758.7	2647.8	2423.1	2349.2	2195.9	2082.3	2053.2	2045.3	2053.2
12.5°	2838.0	2798.4	2721.7	2536.8	2222.3	2172.1	2082.3	2016.2	2010.9	2024.1	2095.5
15°	2806.3	2769.3	2679.5	2388.8	2111.3	2074.3	2010.9	1987.1	2016.2	2108.7	2322.7
17.5°	2774.6	2732.3	2621.3	2243.5	2026.8	2000.4	1955.4	2003.0	2166.8	2291.0	2362.4
20°	2732.3	2682.1	2555.3	2137.8	1966.0	1942.2	1921.1	2135.1	2259.3	2304.2	2343.9
22.5°	2682.1	2629.3	2465.4	2063.8	1902.6	1884.1	1897.3	2209.1	2259.3	2291.0	2325.4
25°	2616.0	2571.1	2359.7	2005.6	1852.4	1831.2	1881.4	2201.2	2230.2	2238.2	2306.9
27.5°	2555.3	2497.1	2248.7	1952.8	1791.6	1783.7	1894.7	2166.8	2188.0	2195.9	2269.9
30°	2481.3	2394.1	2124.5	1897.3	1728.2	1725.5	1897.3	2124.5	2119.3	2140.4	2214.4
32.5°	2404.7	2240.8	1984.5	1828.6	1667.4	1664.8	1878.8	2061.1	2055.8	2084.9	2140.4
35°	2333.3	2121.9	1794.2	1749.3	1590.8	1593.4	1833.9	1987.1	1989.8	2016.2	2050.6
37.5°	2259.3	2018.8	1585.5	1662.1	1516.8	1516.8	1773.1	1918.4	1913.2	1921.1	1968.6
40°	2172.1	1857.7	1400.5	1548.5	1448.1	1440.1	1699.1	1844.4	1825.9	1823.3	1889.4
42.5°	2079.6	1680.6	1263.1	1397.9	1368.8	1358.2	1609.3	1754.6	1720.2	1728.2	1812.7
45°	1979.2	1633.0	1157.4	1181.2	1286.9	1279.0	1511.5	1651.5	1627.8	1648.9	1736.1
47.5°	1878.8	1537.9	1123.1	980.4	1199.7	1197.0	1403.2	1551.1	1537.9	1559.1	1651.5
50°	1741.4	1432.2	1120.4	840.3	1101.9	1112.5	1273.7	1453.4	1453.4	1471.9	1569.6
52.5°	1564.3	1302.7	1017.4	761.0	988.3	1020.0	1160.0	1368.8	1374.1	1392.6	1479.8
55°	1403.2	1168.0	943.4	700.3	853.5	922.2	1049.1	1281.6	1292.2	1310.7	1389.9
57.5°	1255.2	972.4	927.5	628.9	729.3	795.4	951.3	1197.0	1202.3	1218.2	1294.8
60°	1096.6	702.9	850.9	552.3	621.0	671.2	861.4	1096.6	1115.1	1125.7	1191.8
62.5°	916.9	510.0	771.6	499.4	568.1	578.7	787.5	1001.5	1025.3	1033.2	1072.8
65°	652.7	428.1	655.3	454.5	512.6	515.3	708.2	903.7	924.9	938.1	967.1
67.5°	441.3	348.8	499.4	412.2	470.4	473.0	631.6	790.1	819.2	829.7	848.2
70°	306.5	232.5	369.9	367.3	422.8	428.1	549.6	687.0	713.5	721.4	732.0
72.5°	224.6	187.6	306.5	330.3	372.6	377.9	465.1	570.8	597.2	605.1	610.4
75°	171.8	198.2	248.4	288.0	317.1	319.7	380.5	465.1	483.6	488.9	491.5
77.5°	137.4	185.0	182.3	232.5	259.0	253.7	298.6	359.4	375.2	375.2	375.2
80°	103.1	145.3	137.4	166.5	190.3	185.0	214.0	256.3	261.6	266.9	264.2
82.5°	76.6	92.5	92.5	105.7	126.8	121.6	142.7	166.5	166.5	166.5	171.8
85°	47.6	52.8	42.3	55.5	71.3	68.7	79.3	89.8	92.5	92.5	87.2
87.5°	29.1	23.8	13.2	21.1	31.7	31.7	37.0	39.6	37.0	37.0	37.0
90°	5.2	3.6	2.0	3.6	5.2	5.6	8.8	13.1	15.2	13.5	10.1
92.5°	35.3	21.6	8.0	21.6	35.3	38.7	54.4	75.3	85.7	75.1	54.0
95°	69.1	44.1	19.2	44.1	69.1	75.3	133.7	211.6	250.6	223.6	169.7
97.5°	77.2	55.3	33.3	55.3	77.2	82.7	180.1	310.0	375.0	358.0	323.9
100°	83.9	64.0	44.1	64.0	83.9	88.9	197.0	341.1	413.2	414.5	417.0
102.5°	90.5	71.9	53.3	71.9	90.5	95.1	204.8	351.0	424.1	445.8	489.2
105°	100.5	84.7	68.9	84.7	100.5	104.4	210.6	352.1	422.9	471.6	569.0
107.5°	114.3	99.6	84.9	99.6	114.3	118.0	211.6	336.4	398.8	466.7	602.6
110°	122.3	109.0	95.8	109.0	122.3	125.6	210.0	322.5	378.8	454.7	606.6



TEST NUMBER: P934016

CATALOG NUMBER: SQ4-FA-025U-100D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	131.6	119.0	106.4	119.0	131.6	134.8	210.1	310.4	360.6	438.3	593.7
115°	145.7	134.0	122.4	134.0	145.7	148.6	212.0	296.5	338.7	413.6	563.4
117.5°	159.4	148.8	138.2	148.8	159.4	162.1	216.0	287.8	323.7	391.3	526.4
120°	167.4	157.4	147.4	157.4	167.4	169.9	219.2	284.9	317.7	379.4	502.9
122.5°	176.6	166.5	156.4	166.5	176.6	179.1	223.8	283.3	313.1	368.7	479.9
125°	188.6	179.5	170.3	179.5	188.6	190.9	230.0	282.1	308.1	355.3	449.8
127.5°	200.0	190.7	181.5	190.7	200.0	202.3	236.2	281.3	303.9	344.5	425.6
130°	207.4	197.5	187.5	197.5	207.4	209.9	240.7	281.8	302.3	338.4	410.6
132.5°	213.6	203.7	193.7	203.7	213.6	216.1	244.4	282.1	300.9	333.2	397.8
135°	221.1	212.0	202.9	212.0	221.1	223.4	248.4	281.8	298.5	325.6	379.7
137.5°	230.3	221.3	212.3	221.3	230.3	232.6	254.4	283.5	298.1	321.0	366.7
140°	236.7	228.4	220.1	228.4	236.7	238.8	258.1	283.8	296.7	316.5	356.0
142.5°	241.5	233.8	226.2	233.8	241.5	243.4	261.2	284.9	296.7	314.1	348.8
145°	248.7	242.1	235.4	242.1	248.7	250.4	265.2	284.9	294.7	308.9	337.3
147.5°	257.6	251.1	244.6	251.1	257.6	259.2	271.0	286.8	294.7	305.9	328.2
150°	262.3	256.5	250.6	256.5	262.3	263.8	274.1	287.8	294.7	304.1	323.0
152.5°	265.7	261.2	256.8	261.2	265.7	266.8	276.1	288.5	294.7	302.7	318.8
155°	272.6	269.3	266.0	269.3	272.6	273.4	280.5	290.0	294.7	301.1	313.9
157.5°	279.2	276.0	272.8	276.0	279.2	280.0	284.9	291.4	294.7	299.7	309.6
160°	282.4	279.9	277.4	279.9	282.4	283.0	286.9	292.1	294.7	299.0	307.5
162.5°	285.7	283.9	282.0	283.9	285.7	286.2	289.0	292.8	294.7	298.3	305.5
165°	290.5	288.8	287.1	288.8	290.5	290.9	292.2	293.9	294.7	297.3	302.4
167.5°	293.3	292.5	291.7	292.5	293.3	293.5	294.6	296.0	296.7	298.4	301.8
170°	296.3	295.5	294.7	295.5	296.3	296.5	296.6	296.7	296.7	298.4	301.8
172.5°	296.7	296.5	296.3	296.5	296.7	296.7	296.7	296.7	296.7	298.0	300.7
175°	298.5	298.5	298.5	298.5	298.5	298.5	297.9	297.1	296.7	297.5	299.2
177.5°	298.5	298.5	298.5	298.5	298.5	298.5	298.0	297.4	297.1	297.8	299.1
180°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5



TEST NUMBER: P934016
 CATALOG NUMBER: SQ4-FA-025U-100D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1	2793.1
2.5°	2695.3	2687.4	2698.0	2668.9	2698.0	2687.4	2695.3	2713.8	2698.0	2708.5	2719.1
5°	2365.0	2351.8	2309.5	2275.2	2309.5	2351.8	2365.0	2420.5	2446.9	2494.5	2557.9
7.5°	2114.0	2103.4	2092.8	2071.7	2092.8	2103.4	2114.0	2129.8	2156.3	2198.5	2246.1
10°	2058.5	2061.1	2077.0	2074.3	2077.0	2061.1	2058.5	2053.2	2045.3	2053.2	2082.3
12.5°	2201.2	2225.0	2312.2	2306.9	2312.2	2225.0	2201.2	2095.5	2024.1	2010.9	2016.2
15°	2365.0	2372.9	2391.4	2394.1	2391.4	2372.9	2365.0	2322.7	2108.7	2016.2	1987.1
17.5°	2380.9	2383.5	2396.7	2396.7	2396.7	2383.5	2380.9	2362.4	2291.0	2166.8	2003.0
20°	2367.7	2372.9	2399.4	2404.7	2399.4	2372.9	2367.7	2343.9	2304.2	2259.3	2135.1
22.5°	2362.4	2372.9	2394.1	2391.4	2394.1	2372.9	2362.4	2325.4	2291.0	2259.3	2209.1
25°	2335.9	2335.9	2338.6	2341.2	2338.6	2335.9	2335.9	2306.9	2238.2	2230.2	2201.2
27.5°	2280.5	2285.7	2301.6	2299.0	2301.6	2285.7	2280.5	2269.9	2195.9	2188.0	2166.8
30°	2230.2	2225.0	2211.7	2201.2	2211.7	2225.0	2230.2	2214.4	2140.4	2119.3	2124.5
32.5°	2145.7	2132.5	2119.3	2111.3	2119.3	2132.5	2145.7	2140.4	2084.9	2055.8	2061.1
35°	2045.3	2047.9	2045.3	2037.3	2045.3	2047.9	2045.3	2050.6	2016.2	1989.8	1987.1
37.5°	1973.9	1979.2	1976.6	1966.0	1976.6	1979.2	1973.9	1968.6	1921.1	1913.2	1918.4
40°	1899.9	1902.6	1899.9	1892.0	1899.9	1902.6	1899.9	1889.4	1823.3	1825.9	1844.4
42.5°	1828.6	1825.9	1818.0	1812.7	1818.0	1825.9	1828.6	1812.7	1728.2	1720.2	1754.6
45°	1746.7	1749.3	1733.5	1725.5	1733.5	1749.3	1746.7	1736.1	1648.9	1627.8	1651.5
47.5°	1664.8	1664.8	1651.5	1643.6	1651.5	1664.8	1664.8	1651.5	1559.1	1537.9	1551.1
50°	1577.6	1574.9	1556.4	1553.8	1556.4	1574.9	1577.6	1569.6	1471.9	1453.4	1453.4
52.5°	1477.1	1477.1	1479.8	1485.1	1479.8	1477.1	1477.1	1479.8	1392.6	1374.1	1368.8
55°	1389.9	1392.6	1411.1	1416.4	1411.1	1392.6	1389.9	1389.9	1310.7	1292.2	1281.6
57.5°	1300.1	1300.1	1313.3	1313.3	1313.3	1300.1	1300.1	1294.8	1218.2	1202.3	1197.0
60°	1197.0	1202.3	1212.9	1210.3	1212.9	1202.3	1197.0	1191.8	1125.7	1115.1	1096.6
62.5°	1088.7	1094.0	1096.6	1091.3	1096.6	1094.0	1088.7	1072.8	1033.2	1025.3	1001.5
65°	975.1	980.4	983.0	977.7	983.0	980.4	975.1	967.1	938.1	924.9	903.7
67.5°	858.8	856.2	853.5	864.1	853.5	856.2	858.8	848.2	829.7	819.2	790.1
70°	739.9	739.9	737.2	742.5	737.2	739.9	739.9	732.0	721.4	713.5	687.0
72.5°	613.1	610.4	621.0	613.1	621.0	610.4	613.1	610.4	605.1	597.2	570.8
75°	488.9	494.1	488.9	496.8	488.9	494.1	488.9	491.5	488.9	483.6	465.1
77.5°	372.6	377.9	372.6	372.6	372.6	377.9	372.6	375.2	375.2	375.2	359.4
80°	264.2	261.6	261.6	259.0	261.6	261.6	264.2	264.2	266.9	261.6	256.3
82.5°	169.1	166.5	166.5	171.8	166.5	166.5	169.1	171.8	166.5	166.5	166.5
85°	92.5	95.1	89.8	89.8	89.8	95.1	92.5	87.2	92.5	92.5	89.8
87.5°	34.4	31.7	31.7	31.7	31.7	31.7	34.4	37.0	37.0	37.0	39.6
90°	7.6	7.6	7.6	7.6	7.6	7.6	7.6	10.1	13.5	15.2	13.1
92.5°	38.1	36.6	30.5	24.4	30.5	36.6	38.1	54.0	75.1	85.7	75.3
95°	129.2	124.6	106.3	87.9	106.3	124.6	129.2	169.7	223.6	250.6	211.6
97.5°	298.3	289.6	254.6	219.7	254.6	289.6	298.3	323.9	358.0	375.0	310.0
100°	418.9	408.5	366.9	325.3	366.9	408.5	418.9	417.0	414.5	413.2	341.1
102.5°	521.8	512.9	477.3	441.7	477.3	512.9	521.8	489.2	445.8	424.1	351.0
105°	642.0	637.2	618.1	598.9	618.1	637.2	642.0	569.0	471.6	422.9	352.1
107.5°	704.5	705.7	710.3	714.9	710.3	705.7	704.5	602.6	466.7	398.8	336.4
110°	720.5	725.5	745.4	765.4	745.4	725.5	720.5	606.6	454.7	378.8	322.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	710.3	718.0	748.6	779.2	748.6	718.0	710.3	593.7	438.3	360.6	310.4
115°	675.7	686.3	728.8	771.2	728.8	686.3	675.7	563.4	413.6	338.7	296.5
117.5°	627.8	639.6	686.7	733.8	686.7	639.6	627.8	526.4	391.3	323.7	287.8
120°	595.5	606.9	652.7	698.5	652.7	606.9	595.5	502.9	379.4	317.7	284.9
122.5°	563.3	574.6	619.7	664.8	619.7	574.6	563.3	479.9	368.7	313.1	283.3
125°	520.6	531.0	572.6	614.2	572.6	531.0	520.6	449.8	355.3	308.1	282.1
127.5°	486.4	495.2	530.2	565.3	530.2	495.2	486.4	425.6	344.5	303.9	281.3
130°	464.7	472.8	505.2	537.6	505.2	472.8	464.7	410.6	338.4	302.3	281.8
132.5°	446.3	453.6	482.6	511.6	482.6	453.6	446.3	397.8	333.2	300.9	282.1
135°	420.3	426.5	451.5	476.5	451.5	426.5	420.3	379.7	325.6	298.5	281.8
137.5°	401.0	406.1	426.6	447.1	426.6	406.1	401.0	366.7	321.0	298.1	283.5
140°	385.6	390.4	409.5	428.7	409.5	390.4	385.6	356.0	316.5	296.7	283.8
142.5°	374.8	378.9	395.4	411.8	395.4	378.9	374.8	348.8	314.1	296.7	284.9
145°	358.6	361.7	374.2	386.6	374.2	361.7	358.6	337.3	308.9	294.7	284.9
147.5°	344.9	347.5	357.8	368.2	357.8	347.5	344.9	328.2	305.9	294.7	286.8
150°	337.1	339.2	347.6	356.0	347.6	339.2	337.1	323.0	304.1	294.7	287.8
152.5°	330.9	332.5	338.8	345.1	338.8	332.5	330.9	318.8	302.7	294.7	288.5
155°	323.5	324.5	328.7	332.9	328.7	324.5	323.5	313.9	301.1	294.7	290.0
157.5°	317.1	317.8	320.8	323.7	320.8	317.8	317.1	309.6	299.7	294.7	291.4
160°	313.9	314.3	316.0	317.7	316.0	314.3	313.9	307.5	299.0	294.7	292.1
162.5°	310.9	311.3	312.9	314.5	312.9	311.3	310.9	305.5	298.3	294.7	292.8
165°	306.3	306.7	308.4	310.1	308.4	306.7	306.3	302.4	297.3	294.7	293.9
167.5°	304.3	304.5	305.2	305.9	305.2	304.5	304.3	301.8	298.4	296.7	296.0
170°	304.3	304.3	304.3	304.3	304.3	304.3	304.3	301.8	298.4	296.7	296.7
172.5°	302.7	302.5	301.9	301.3	301.9	302.5	302.7	300.7	298.0	296.7	296.7
175°	300.5	300.5	300.5	300.5	300.5	300.5	300.5	299.2	297.5	296.7	297.1
177.5°	300.1	299.9	299.2	298.5	299.2	299.9	300.1	299.1	297.8	297.1	297.4
180°	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5	298.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	2793.1	2793.1	2793.1	2793.1	2793.1
2.5°	2758.7	2772.0	2779.9	2790.5	2816.9
5°	2653.0	2703.2	2719.1	2758.7	2806.3
7.5°	2420.5	2573.8	2616.0	2711.2	2785.2
10°	2195.9	2349.2	2423.1	2647.8	2758.7
12.5°	2082.3	2172.1	2222.3	2536.8	2721.7
15°	2010.9	2074.3	2111.3	2388.8	2679.5
17.5°	1955.4	2000.4	2026.8	2243.5	2621.3
20°	1921.1	1942.2	1966.0	2137.8	2555.3
22.5°	1897.3	1884.1	1902.6	2063.8	2465.4
25°	1881.4	1831.2	1852.4	2005.6	2359.7
27.5°	1894.7	1783.7	1791.6	1952.8	2248.7
30°	1897.3	1725.5	1728.2	1897.3	2124.5
32.5°	1878.8	1664.8	1667.4	1828.6	1984.5
35°	1833.9	1593.4	1590.8	1749.3	1794.2
37.5°	1773.1	1516.8	1516.8	1662.1	1585.5
40°	1699.1	1440.1	1448.1	1548.5	1400.5
42.5°	1609.3	1358.2	1368.8	1397.9	1263.1
45°	1511.5	1279.0	1286.9	1181.2	1157.4
47.5°	1403.2	1197.0	1199.7	980.4	1123.1
50°	1273.7	1112.5	1101.9	840.3	1120.4
52.5°	1160.0	1020.0	988.3	761.0	1017.4
55°	1049.1	922.2	853.5	700.3	943.4
57.5°	951.3	795.4	729.3	628.9	927.5
60°	861.4	671.2	621.0	552.3	850.9
62.5°	787.5	578.7	568.1	499.4	771.6
65°	708.2	515.3	512.6	454.5	655.3
67.5°	631.6	473.0	470.4	412.2	499.4
70°	549.6	428.1	422.8	367.3	369.9
72.5°	465.1	377.9	372.6	330.3	306.5
75°	380.5	319.7	317.1	288.0	248.4
77.5°	298.6	253.7	259.0	232.5	182.3
80°	214.0	185.0	190.3	166.5	137.4
82.5°	142.7	121.6	126.8	105.7	92.5
85°	79.3	68.7	71.3	55.5	42.3
87.5°	37.0	31.7	31.7	21.1	13.2
90°	8.8	5.6	5.2	3.6	2.0
92.5°	54.4	38.7	35.3	21.6	8.0
95°	133.7	75.3	69.1	44.1	19.2
97.5°	180.1	82.7	77.2	55.3	33.3
100°	197.0	88.9	83.9	64.0	44.1
102.5°	204.8	95.1	90.5	71.9	53.3
105°	210.6	104.4	100.5	84.7	68.9
107.5°	211.6	118.0	114.3	99.6	84.9
110°	210.0	125.6	122.3	109.0	95.8



TEST NUMBER: P934016

CATALOG NUMBER: SQ4-FA-025U-100D-835-1D-UNV-STD-W-8

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	210.1	134.8	131.6	119.0	106.4
115°	212.0	148.6	145.7	134.0	122.4
117.5°	216.0	162.1	159.4	148.8	138.2
120°	219.2	169.9	167.4	157.4	147.4
122.5°	223.8	179.1	176.6	166.5	156.4
125°	230.0	190.9	188.6	179.5	170.3
127.5°	236.2	202.3	200.0	190.7	181.5
130°	240.7	209.9	207.4	197.5	187.5
132.5°	244.4	216.1	213.6	203.7	193.7
135°	248.4	223.4	221.1	212.0	202.9
137.5°	254.4	232.6	230.3	221.3	212.3
140°	258.1	238.8	236.7	228.4	220.1
142.5°	261.2	243.4	241.5	233.8	226.2
145°	265.2	250.4	248.7	242.1	235.4
147.5°	271.0	259.2	257.6	251.1	244.6
150°	274.1	263.8	262.3	256.5	250.6
152.5°	276.1	266.8	265.7	261.2	256.8
155°	280.5	273.4	272.6	269.3	266.0
157.5°	284.9	280.0	279.2	276.0	272.8
160°	286.9	283.0	282.4	279.9	277.4
162.5°	289.0	286.2	285.7	283.9	282.0
165°	292.2	290.9	290.5	288.8	287.1
167.5°	294.6	293.5	293.3	292.5	291.7
170°	296.6	296.5	296.3	295.5	294.7
172.5°	296.7	296.7	296.7	296.5	296.3
175°	297.9	298.5	298.5	298.5	298.5
177.5°	298.0	298.5	298.5	298.5	298.5
180°	298.5	298.5	298.5	298.5	298.5



TEST NUMBER: P934016
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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	16.04	17.24	16.70	17.92	18.71	18.88	20.08	19.54	20.76	21.54
	3H	16.54	17.62	17.22	18.31	19.13	20.25	21.33	20.93	22.02	22.84
	4H	16.75	17.77	17.45	18.47	19.30	20.71	21.73	21.41	22.43	23.26
	6H	16.89	17.82	17.59	18.53	19.38	21.02	21.96	21.73	22.67	23.51
	8H	16.90	17.79	17.62	18.52	19.37	21.10	22.00	21.82	22.73	23.58
	12H	16.88	17.73	17.60	18.46	19.34	21.15	22.01	21.88	22.73	23.61
4H	2H	17.12	18.13	17.81	18.83	19.67	19.33	20.34	20.03	21.04	21.88
	3H	18.17	19.02	18.89	19.76	20.61	20.87	21.71	21.58	22.45	23.30
	4H	18.46	19.23	19.19	19.97	20.86	21.41	22.18	22.14	22.92	23.80
	6H	18.61	19.27	19.35	20.04	20.93	21.80	22.46	22.54	23.23	24.12
	8H	18.62	19.24	19.37	20.01	20.91	21.91	22.54	22.66	23.30	24.20
	12H	18.61	19.16	19.38	19.95	20.86	21.99	22.55	22.76	23.33	24.24
8H	4H	18.95	19.57	19.70	20.33	21.23	21.56	22.18	22.31	22.95	23.85
	6H	19.22	19.74	20.00	20.54	21.45	22.01	22.53	22.80	23.33	24.24
	8H	19.27	19.73	20.06	20.53	21.45	22.17	22.63	22.96	23.43	24.36
	12H	19.27	19.67	20.06	20.46	21.45	22.29	22.69	23.08	23.48	24.47
12H	4H	18.97	19.53	19.74	20.31	21.22	21.54	22.10	22.31	22.89	23.80
	6H	19.29	19.75	20.08	20.55	21.47	22.01	22.47	22.81	23.28	24.20
	8H	19.37	19.77	20.16	20.57	21.55	22.19	22.60	22.99	23.39	24.37