

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: P935422

Luminaire Tested: SQ4-FA-125U-050D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935422
REPORT IS A COMBINATION OF REPORTS P933754 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-050D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

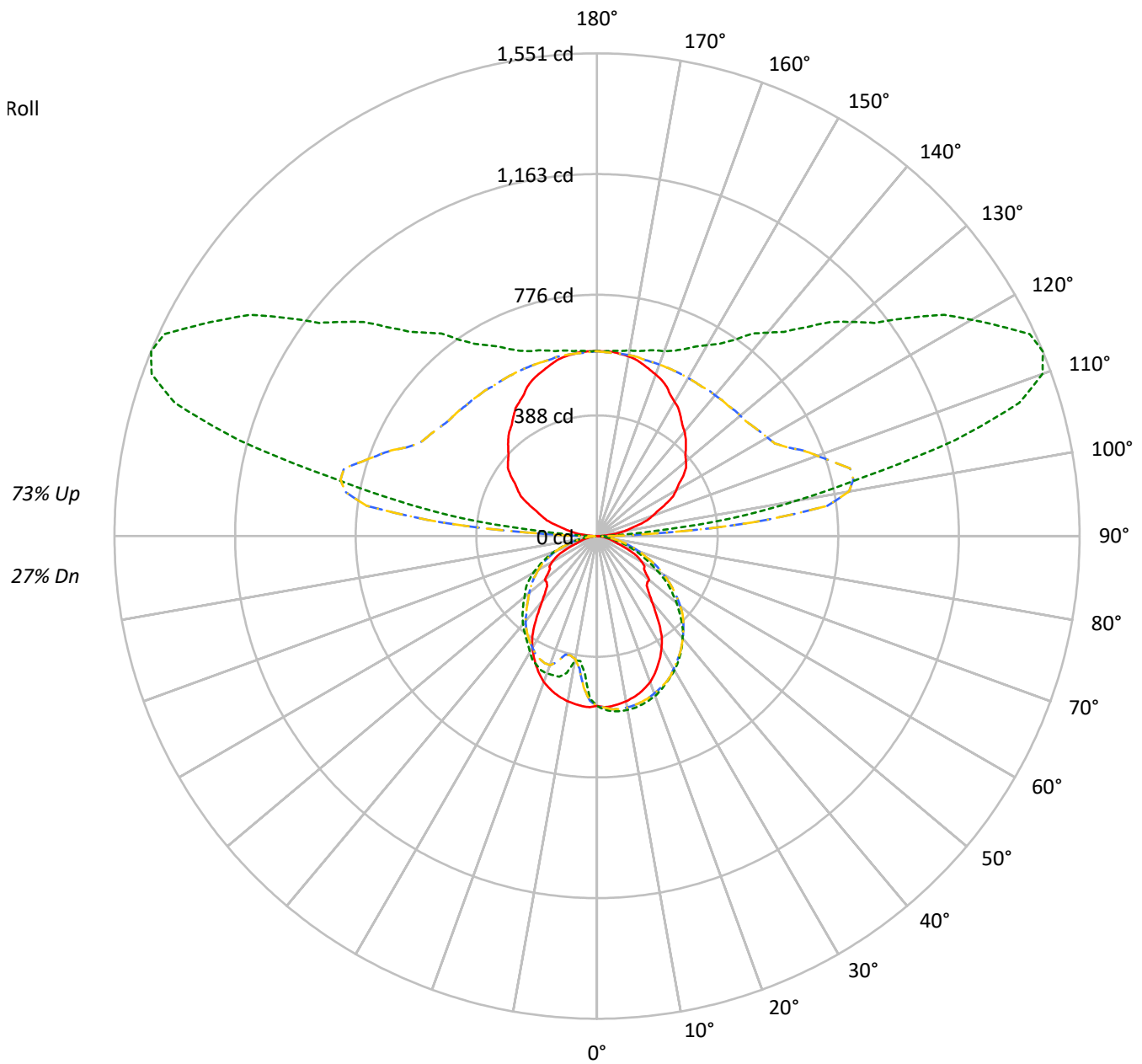
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5268.4 lumens
Efficiency: N/A
Efficacy: 110.7 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 47.6
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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35				27
1	93	88	85	81	83	79	76	73	62	60	58	46	44	43	31	30	29				23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25				19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21				16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18				14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16				12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14				10
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12				9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11				8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10				7
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9				7

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5066	5066	5066	5066
5°	5097	5113	5097	4020
10°	5058	5036	5058	3601
15°	4997	4927	4997	4115
20°	4886	4798	4886	4123
25°	4668	4609	4668	4035
30°	4385	4453	4385	3844
35°	3904	4255	3904	3633
40°	3247	4022	3247	3474
45°	2895	3749	2895	3290
50°	3070	3423	3070	3106
55°	2879	3073	2879	3000
60°	2958	2610	2958	2748
65°	2670	2157	2670	2411
70°	1835	1719	1835	2021
75°	1590	1271	1590	1522
80°	1259	841	1259	915
85°	679	444	679	379

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4447 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	49.3	0.9
10°-20°	139.9	2.7
20°-30°	216.3	4.1
30°-40°	258.2	4.9
40°-50°	259.7	4.9
50°-60°	225.9	4.3
60°-70°	160.2	3.0
70°-80°	84.8	1.6
80°-90°	23.4	0.4
90°-100°	289.6	5.5
100°-110°	761.3	14.4
110°-120°	789.4	15.0
120°-130°	633.1	12.0
130°-140°	496.8	9.4
140°-150°	381.3	7.2
150°-160°	274.6	5.2
160°-170°	168.0	3.2
170°-180°	56.8	1.1
0°-30°	405.4	7.7
0°-40°	663.6	12.6
0°-60°	1149.2	21.8
0°-90°	1417.5	26.9
90°-120°	1840.2	34.9
90°-150°	3351.4	63.6
90°-180°	3851.0	73.1
0°-180°	5268.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	546	546	546	546	546	
5°	548	566	548	445	548	52
15°	524	560	524	468	524	147
25°	461	523	461	458	461	212
35°	351	466	351	398	351	217
45°	226	384	226	337	226	181
55°	184	284	184	277	184	169
65°	128	171	128	191	128	122
75°	48	81	48	97	48	51
85°	8	21	8	18	8	11
90°	4	15	4	15	4	4
95°	38	175	38	175	38	42
105°	137	1192	137	1192	137	145
115°	244	1535	244	1535	244	241
125°	339	1222	339	1222	339	301
135°	404	948	404	948	404	312
145°	468	770	468	770	468	293
155°	530	663	530	663	530	243
165°	571	617	571	617	571	161
175°	594	598	594	598	594	56
180°	594	594	594	594	594	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	550.5	550.5	553.6	554.6	554.6	553.1	551.6	553.1	557.7	559.3	558.7
5°	548.4	552.6	558.2	559.3	560.3	559.8	558.7	559.8	564.9	566.0	566.5
7.5°	544.3	552.0	559.3	560.8	562.3	560.8	560.3	561.3	566.5	567.5	567.5
10°	539.2	549.9	558.2	559.3	560.8	559.3	559.3	561.3	566.5	567.5	568.0
12.5°	531.9	546.9	554.6	555.6	557.7	557.2	556.7	558.7	563.9	564.9	564.9
15°	523.6	541.2	548.4	549.5	553.1	552.0	552.0	554.1	559.8	561.3	560.8
17.5°	512.3	534.0	542.2	543.8	546.4	545.9	546.4	548.4	553.6	554.6	555.2
20°	499.3	524.1	534.0	535.5	538.1	538.1	538.1	540.7	545.9	547.9	547.9
22.5°	481.8	513.8	524.1	525.2	528.3	528.3	529.3	532.9	537.5	538.1	538.1
25°	461.2	502.4	511.2	514.4	517.4	519.0	520.5	522.6	524.1	523.6	524.1
27.5°	439.4	488.0	499.3	501.4	505.6	507.1	509.2	509.7	510.2	511.7	510.7
30°	415.2	467.9	484.9	486.9	493.6	494.7	492.6	493.6	496.3	497.3	498.3
32.5°	387.8	437.9	469.9	474.6	480.8	477.7	477.2	478.7	482.9	482.9	483.9
35°	350.7	414.6	456.0	460.2	464.8	461.2	463.2	463.7	466.3	467.9	467.3
37.5°	309.8	394.5	441.5	444.6	448.2	443.6	446.7	448.2	450.3	449.3	449.3
40°	273.7	363.1	424.5	426.6	429.7	426.0	429.1	430.2	431.2	430.2	429.7
42.5°	246.9	328.4	406.4	409.0	406.9	409.5	410.6	412.6	411.0	409.0	409.0
45°	226.1	319.2	386.8	389.9	386.8	390.9	392.5	392.5	387.8	386.8	386.2
47.5°	219.4	300.5	367.1	367.1	365.6	370.8	373.4	369.8	365.1	363.5	363.5
50°	219.0	279.9	340.3	338.3	345.5	351.7	349.1	345.5	341.9	336.2	336.2
52.5°	198.8	254.6	305.7	313.5	324.8	328.4	324.3	320.7	314.5	311.9	309.8
55°	184.3	228.2	274.2	289.7	301.6	306.2	298.5	294.8	285.6	284.1	283.0
57.5°	181.3	190.0	245.3	264.9	279.4	278.9	274.2	267.5	259.7	258.2	257.7
60°	166.3	137.4	214.3	237.5	252.5	250.9	246.9	240.6	233.4	232.4	231.4
62.5°	150.8	99.6	179.2	205.5	226.7	226.1	222.6	213.3	208.1	205.5	203.4
65°	128.1	83.6	127.6	170.9	201.4	202.4	194.7	188.0	182.3	179.2	178.6
67.5°	97.6	68.1	86.2	142.5	177.1	176.1	166.3	163.2	155.9	154.4	151.3
70°	72.3	45.4	59.9	115.7	153.4	150.8	143.1	139.4	132.7	129.1	127.0
72.5°	59.9	36.7	43.9	89.9	129.1	126.0	119.3	115.2	109.5	106.4	104.3
75°	48.5	38.7	33.6	66.6	104.8	102.8	96.6	92.4	87.8	83.6	84.2
77.5°	35.7	36.1	26.9	49.0	83.2	80.1	76.5	71.3	69.2	65.1	65.1
80°	26.9	28.4	20.2	33.6	59.9	59.9	56.8	53.2	49.6	47.5	47.5
82.5°	18.1	18.1	14.9	21.2	40.8	39.3	37.2	36.1	34.1	33.0	33.0
85°	8.2	10.3	9.3	12.9	22.2	23.3	23.3	22.2	21.7	20.6	21.2
87.5°	2.6	4.6	5.7	7.2	11.4	11.9	12.4	12.4	12.4	12.9	12.9
90°	4.0	7.2	10.4	11.2	17.6	26.0	30.3	26.9	20.2	15.2	15.2
92.5°	15.9	43.0	70.1	76.9	108.2	149.8	170.6	149.5	107.4	75.8	72.8
95°	38.3	87.9	137.5	149.9	266.2	421.2	498.7	445.1	337.7	257.2	248.0
97.5°	66.1	109.9	153.7	164.6	358.5	617.0	746.3	712.3	644.5	593.6	576.3
100°	87.7	127.4	167.1	177.0	392.2	679.0	822.4	824.9	829.9	833.6	812.9
102.5°	106.0	143.1	180.1	189.3	407.6	698.5	844.0	887.3	973.7	1038.6	1020.9
105°	137.1	168.6	199.9	207.7	419.0	700.8	841.6	938.6	1132.4	1277.7	1268.2
107.5°	169.0	198.3	227.5	234.8	421.2	669.6	793.8	929.0	1199.4	1402.1	1404.4
110°	190.6	217.0	243.3	249.9	418.0	641.9	753.9	905.1	1207.4	1434.0	1444.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	211.7	236.9	262.0	268.3	418.0	617.8	717.6	872.3	1181.7	1413.7	1429.0
115°	243.6	266.8	290.1	295.8	422.0	590.1	674.1	823.1	1121.2	1344.7	1365.8
117.5°	275.1	296.2	317.3	322.6	429.8	572.8	644.3	778.7	1047.7	1249.4	1272.8
120°	293.4	313.3	333.2	338.1	436.2	567.0	632.3	755.2	1000.9	1185.3	1208.1
122.5°	311.4	331.4	351.4	356.4	445.4	563.9	623.2	733.8	955.1	1121.0	1143.5
125°	338.9	357.1	375.4	379.9	457.7	561.3	613.2	707.2	895.1	1036.1	1056.8
127.5°	361.2	379.6	398.0	402.6	470.0	559.9	604.8	685.5	846.9	968.0	985.4
130°	373.1	393.0	412.9	417.8	479.1	560.8	601.6	673.4	817.1	924.9	941.0
132.5°	385.5	405.4	425.3	430.2	486.4	561.3	598.8	663.1	791.8	888.3	902.7
135°	403.9	422.0	440.0	444.5	494.3	560.8	594.1	648.0	755.7	836.5	848.9
137.5°	422.6	440.4	458.4	462.8	506.3	564.3	593.2	638.7	729.8	798.1	808.3
140°	438.1	454.6	471.1	475.2	513.7	564.9	590.4	629.8	708.5	767.5	777.0
142.5°	450.1	465.3	480.6	484.4	519.8	566.9	590.4	625.0	694.1	745.9	754.1
145°	468.5	481.7	495.0	498.3	527.7	566.9	586.4	614.7	671.2	713.6	719.9
147.5°	486.8	499.7	512.7	515.9	539.4	570.7	586.4	608.7	653.2	686.5	691.7
150°	498.7	510.4	522.1	525.1	545.5	572.8	586.4	605.2	642.8	671.0	675.1
152.5°	511.1	520.0	528.8	531.1	549.5	574.1	586.4	602.4	634.6	658.6	661.7
155°	529.5	536.0	542.5	544.2	558.2	577.0	586.4	599.2	624.7	643.9	646.0
157.5°	543.0	549.4	555.7	557.3	567.0	580.0	586.4	596.4	616.2	631.1	632.6
160°	552.2	557.1	562.1	563.3	571.0	581.3	586.4	594.9	611.9	624.7	625.5
162.5°	561.3	565.0	568.8	569.7	575.3	582.7	586.4	593.6	608.0	618.8	619.5
165°	571.3	574.7	578.0	578.9	581.4	584.7	586.4	591.6	601.8	609.5	610.4
167.5°	580.5	582.0	583.7	584.0	586.2	589.1	590.4	593.8	600.5	605.6	606.0
170°	586.4	588.0	589.7	590.1	590.2	590.4	590.4	593.8	600.5	605.6	605.6
172.5°	589.7	590.0	590.4	590.4	590.4	590.4	590.4	593.1	598.4	602.4	602.1
175°	594.1	594.1	594.1	594.1	592.8	591.2	590.4	592.1	595.4	598.0	598.0
177.5°	594.1	594.1	594.1	594.1	593.1	591.8	591.2	592.5	595.2	597.2	596.8
180°	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	559.8	558.2	559.8	558.7	559.3	557.7	553.1	551.6	553.1	554.6	554.6
5°	566.5	565.5	566.5	566.5	566.0	564.9	559.8	558.7	559.8	560.3	559.3
7.5°	568.6	567.0	568.6	567.5	567.5	566.5	561.3	560.3	560.8	562.3	560.8
10°	568.6	567.0	568.6	568.0	567.5	566.5	561.3	559.3	559.3	560.8	559.3
12.5°	566.0	564.9	566.0	564.9	564.9	563.9	558.7	556.7	557.2	557.7	555.6
15°	561.9	560.3	561.9	560.8	561.3	559.8	554.1	552.0	552.0	553.1	549.5
17.5°	555.6	553.6	555.6	555.2	554.6	553.6	548.4	546.4	545.9	546.4	543.8
20°	548.4	546.9	548.4	547.9	547.9	545.9	540.7	538.1	538.1	538.1	535.5
22.5°	537.1	535.5	537.1	538.1	538.1	537.5	532.9	529.3	528.3	528.3	525.2
25°	524.1	522.6	524.1	524.1	523.6	524.1	522.6	520.5	519.0	517.4	514.4
27.5°	511.7	510.7	511.7	510.7	511.7	510.2	509.7	509.2	507.1	505.6	501.4
30°	499.3	498.3	499.3	498.3	497.3	496.3	493.6	492.6	494.7	493.6	486.9
32.5°	483.9	482.9	483.9	483.9	482.9	482.9	478.7	477.2	477.7	480.8	474.6
35°	467.9	466.3	467.9	467.3	467.9	466.3	463.7	463.2	461.2	464.8	460.2
37.5°	449.3	447.8	449.3	449.3	449.3	450.3	448.2	446.7	443.6	448.2	444.6
40°	430.2	428.1	430.2	429.7	430.2	431.2	430.2	429.1	426.0	429.7	426.6
42.5°	408.5	407.9	408.5	409.0	409.0	411.0	412.6	410.6	409.5	406.9	409.0
45°	385.2	384.2	385.2	386.2	386.8	387.8	392.5	392.5	390.9	386.8	389.9
47.5°	360.4	357.9	360.4	363.5	363.5	365.1	369.8	373.4	370.8	365.6	367.1
50°	334.1	334.6	334.1	336.2	336.2	341.9	345.5	349.1	351.7	345.5	338.3
52.5°	308.3	307.8	308.3	309.8	311.9	314.5	320.7	324.3	328.4	324.8	313.5
55°	282.4	283.5	282.4	283.0	284.1	285.6	294.8	298.5	306.2	301.6	289.7
57.5°	256.6	255.1	256.6	257.7	258.2	259.7	267.5	274.2	278.9	279.4	264.9
60°	226.7	224.6	226.7	231.4	232.4	233.4	240.6	246.9	250.9	252.5	237.5
62.5°	200.4	196.7	200.4	203.4	205.5	208.1	213.3	222.6	226.1	226.7	205.5
65°	172.5	170.9	172.5	178.6	179.2	182.3	188.0	194.7	202.4	201.4	170.9
67.5°	147.1	147.1	147.1	151.3	154.4	155.9	163.2	166.3	176.1	177.1	142.5
70°	124.0	123.4	124.0	127.0	129.1	132.7	139.4	143.1	150.8	153.4	115.7
72.5°	101.7	101.2	101.7	104.3	106.4	109.5	115.2	119.3	126.0	129.1	89.9
75°	82.1	81.1	82.1	84.2	83.6	87.8	92.4	96.6	102.8	104.8	66.6
77.5°	63.0	63.0	63.0	65.1	65.1	69.2	71.3	76.5	80.1	83.2	49.0
80°	47.0	46.5	47.0	47.5	47.5	49.6	53.2	56.8	59.9	59.9	33.6
82.5°	33.0	32.0	33.0	33.0	33.0	34.1	36.1	37.2	39.3	40.8	21.2
85°	20.6	20.6	20.6	21.2	20.6	21.7	22.2	23.3	23.3	22.2	12.9
87.5°	13.4	12.9	13.4	12.9	12.9	12.4	12.4	12.4	11.9	11.4	7.2
90°	15.2	15.2	15.2	15.2	15.2	20.2	26.9	30.3	26.0	17.6	11.2
92.5°	60.7	48.7	60.7	72.8	75.8	107.4	149.5	170.6	149.8	108.2	76.9
95°	211.5	175.0	211.5	248.0	257.2	337.7	445.1	498.7	421.2	266.2	149.9
97.5°	506.8	437.4	506.8	576.3	593.6	644.5	712.3	746.3	617.0	358.5	164.6
100°	730.2	647.4	730.2	812.9	833.6	829.9	824.9	822.4	679.0	392.2	177.0
102.5°	949.9	879.1	949.9	1020.9	1038.6	973.7	887.3	844.0	698.5	407.6	189.3
105°	1230.2	1192.0	1230.2	1268.2	1277.7	1132.4	938.6	841.6	700.8	419.0	207.7
107.5°	1413.6	1422.9	1413.6	1404.4	1402.1	1199.4	929.0	793.8	669.6	421.2	234.8
110°	1483.6	1523.3	1483.6	1444.0	1434.0	1207.4	905.1	753.9	641.9	418.0	249.9



TEST NUMBER: P935422

CATALOG NUMBER: SQ4-FA-125U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1489.9	1550.9	1489.9	1429.0	1413.7	1181.7	872.3	717.6	617.8	418.0	268.3
115°	1450.4	1534.9	1450.4	1365.8	1344.7	1121.2	823.1	674.1	590.1	422.0	295.8
117.5°	1366.6	1460.3	1366.6	1272.8	1249.4	1047.7	778.7	644.3	572.8	429.8	322.6
120°	1299.1	1390.2	1299.1	1208.1	1185.3	1000.9	755.2	632.3	567.0	436.2	338.1
122.5°	1233.3	1323.2	1233.3	1143.5	1121.0	955.1	733.8	623.2	563.9	445.4	356.4
125°	1139.5	1222.3	1139.5	1056.8	1036.1	895.1	707.2	613.2	561.3	457.7	379.9
127.5°	1055.2	1125.0	1055.2	985.4	968.0	846.9	685.5	604.8	559.9	470.0	402.6
130°	1005.5	1070.1	1005.5	941.0	924.9	817.1	673.4	601.6	560.8	479.1	417.8
132.5°	960.4	1018.2	960.4	902.7	888.3	791.8	663.1	598.8	561.3	486.4	430.2
135°	898.7	948.4	898.7	848.9	836.5	755.7	648.0	594.1	560.8	494.3	444.5
137.5°	849.1	889.8	849.1	808.3	798.1	729.8	638.7	593.2	564.3	506.3	462.8
140°	815.0	853.2	815.0	777.0	767.5	708.5	629.8	590.4	564.9	513.7	475.2
142.5°	786.9	819.7	786.9	754.1	745.9	694.1	625.0	590.4	566.9	519.8	484.4
145°	744.7	769.5	744.7	719.9	713.6	671.2	614.7	586.4	566.9	527.7	498.3
147.5°	712.2	732.7	712.2	691.7	686.5	653.2	608.7	586.4	570.7	539.4	515.9
150°	691.8	708.5	691.8	675.1	671.0	642.8	605.2	586.4	572.8	545.5	525.1
152.5°	674.3	686.9	674.3	661.7	658.6	634.6	602.4	586.4	574.1	549.5	531.1
155°	654.3	662.6	654.3	646.0	643.9	624.7	599.2	586.4	577.0	558.2	544.2
157.5°	638.4	644.3	638.4	632.6	631.1	616.2	596.4	586.4	580.0	567.0	557.3
160°	628.9	632.3	628.9	625.5	624.7	611.9	594.9	586.4	581.3	571.0	563.3
162.5°	622.8	625.9	622.8	619.5	618.8	608.0	593.6	586.4	582.7	575.3	569.7
165°	613.8	617.2	613.8	610.4	609.5	601.8	591.6	586.4	584.7	581.4	578.9
167.5°	607.4	608.8	607.4	606.0	605.6	600.5	593.8	590.4	589.1	586.2	584.0
170°	605.6	605.6	605.6	605.6	605.6	600.5	593.8	590.4	590.4	590.2	590.1
172.5°	600.8	599.6	600.8	602.1	602.4	598.4	593.1	590.4	590.4	590.4	590.4
175°	598.0	598.0	598.0	598.0	598.0	595.4	592.1	590.4	591.2	592.8	594.1
177.5°	595.4	594.1	595.4	596.8	597.2	595.2	592.5	591.2	591.8	593.1	594.1
180°	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1



TEST NUMBER: P935422

CATALOG NUMBER: SQ4-FA-125U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	553.6	550.5	550.5	545.3	543.2	541.7	539.2	531.4	529.3	527.2	530.4
5°	558.2	552.6	548.4	539.2	531.4	528.3	518.4	499.9	487.5	478.2	473.0
7.5°	559.3	552.0	544.3	529.8	511.2	503.0	473.0	439.0	429.7	421.4	416.2
10°	558.2	549.9	539.2	517.4	473.6	459.1	429.1	406.9	401.2	399.7	401.2
12.5°	554.6	546.9	531.9	495.7	434.3	424.5	406.9	394.0	393.0	395.5	409.5
15°	548.4	541.2	523.6	466.9	412.6	405.4	393.0	388.3	394.0	412.1	453.9
17.5°	542.2	534.0	512.3	438.4	396.1	390.9	382.2	391.5	423.4	447.8	461.7
20°	534.0	524.1	499.3	417.8	384.2	379.5	375.5	417.3	441.5	450.3	458.1
22.5°	524.1	513.8	481.8	403.3	371.8	368.2	370.8	431.7	441.5	447.8	454.5
25°	511.2	502.4	461.2	391.9	362.0	357.9	367.7	430.2	435.8	437.4	450.8
27.5°	499.3	488.0	439.4	381.6	350.1	348.6	370.3	423.4	427.6	429.1	443.6
30°	484.9	467.9	415.2	370.8	337.7	337.2	370.8	415.2	414.2	418.3	432.7
32.5°	469.9	437.9	387.8	357.4	325.9	325.3	367.1	402.8	401.8	407.4	418.3
35°	456.0	414.6	350.7	341.9	310.8	311.4	358.4	388.3	388.8	394.0	400.7
37.5°	441.5	394.5	309.8	324.8	296.4	296.4	346.5	374.9	373.9	375.5	384.7
40°	424.5	363.1	273.7	302.6	283.0	281.4	332.0	360.4	356.8	356.4	369.2
42.5°	406.4	328.4	246.9	273.2	267.5	265.4	314.5	342.9	336.2	337.7	354.3
45°	386.8	319.2	226.1	230.8	251.5	249.9	295.4	322.8	318.1	322.2	339.3
47.5°	367.1	300.5	219.4	191.6	234.5	233.9	274.2	303.1	300.5	304.7	322.8
50°	340.3	279.9	219.0	164.2	215.4	217.4	248.9	284.1	284.1	287.7	306.8
52.5°	305.7	254.6	198.8	148.7	193.1	199.4	226.7	267.5	268.5	272.1	289.2
55°	274.2	228.2	184.3	136.8	166.8	180.3	205.0	250.5	252.5	256.1	271.7
57.5°	245.3	190.0	181.3	122.9	142.5	155.5	185.9	233.9	234.9	238.1	253.0
60°	214.3	137.4	166.3	108.0	121.4	131.1	168.3	214.3	217.9	220.0	232.9
62.5°	179.2	99.6	150.8	97.6	111.0	113.1	153.9	195.7	200.4	201.9	209.7
65°	127.6	83.6	128.1	88.9	100.2	100.7	138.4	176.6	180.7	183.3	189.0
67.5°	86.2	68.1	97.6	80.5	91.9	92.4	123.4	154.4	160.1	162.2	165.8
70°	59.9	45.4	72.3	71.8	82.6	83.6	107.4	134.3	139.4	141.0	143.1
72.5°	43.9	36.7	59.9	64.5	72.8	73.8	90.9	111.6	116.7	118.3	119.3
75°	33.6	38.7	48.5	56.3	62.0	62.4	74.4	90.9	94.5	95.6	96.0
77.5°	26.9	36.1	35.7	45.4	50.6	49.6	58.4	70.2	73.3	73.3	73.3
80°	20.2	28.4	26.9	32.6	37.2	36.1	41.8	50.1	51.1	52.1	51.7
82.5°	14.9	18.1	18.1	20.6	24.8	23.8	27.9	32.6	32.6	32.6	33.6
85°	9.3	10.3	8.2	10.9	13.9	13.4	15.5	17.6	18.1	18.1	17.0
87.5°	5.7	4.6	2.6	4.2	6.2	6.2	7.2	7.8	7.2	7.2	7.2
90°	10.4	7.2	4.0	7.2	10.4	11.2	17.6	26.0	30.3	26.9	20.2
92.5°	70.1	43.0	15.9	43.0	70.1	76.9	108.2	149.8	170.6	149.5	107.4
95°	137.5	87.9	38.3	87.9	137.5	149.9	266.2	421.2	498.7	445.1	337.7
97.5°	153.7	109.9	66.1	109.9	153.7	164.6	358.5	617.0	746.3	712.3	644.5
100°	167.1	127.4	87.7	127.4	167.1	177.0	392.2	679.0	822.4	824.9	829.9
102.5°	180.1	143.1	106.0	143.1	180.1	189.3	407.6	698.5	844.0	887.3	973.7
105°	199.9	168.6	137.1	168.6	199.9	207.7	419.0	700.8	841.6	938.6	1132.4
107.5°	227.5	198.3	169.0	198.3	227.5	234.8	421.2	669.6	793.8	929.0	1199.4
110°	243.3	217.0	190.6	217.0	243.3	249.9	418.0	641.9	753.9	905.1	1207.4



TEST NUMBER: P935422

CATALOG NUMBER: SQ4-FA-125U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	262.0	236.9	211.7	236.9	262.0	268.3	418.0	617.8	717.6	872.3	1181.7
115°	290.1	266.8	243.6	266.8	290.1	295.8	422.0	590.1	674.1	823.1	1121.2
117.5°	317.3	296.2	275.1	296.2	317.3	322.6	429.8	572.8	644.3	778.7	1047.7
120°	333.2	313.3	293.4	313.3	333.2	338.1	436.2	567.0	632.3	755.2	1000.9
122.5°	351.4	331.4	311.4	331.4	351.4	356.4	445.4	563.9	623.2	733.8	955.1
125°	375.4	357.1	338.9	357.1	375.4	379.9	457.7	561.3	613.2	707.2	895.1
127.5°	398.0	379.6	361.2	379.6	398.0	402.6	470.0	559.9	604.8	685.5	846.9
130°	412.9	393.0	373.1	393.0	412.9	417.8	479.1	560.8	601.6	673.4	817.1
132.5°	425.3	405.4	385.5	405.4	425.3	430.2	486.4	561.3	598.8	663.1	791.8
135°	440.0	422.0	403.9	422.0	440.0	444.5	494.3	560.8	594.1	648.0	755.7
137.5°	458.4	440.4	422.6	440.4	458.4	462.8	506.3	564.3	593.2	638.7	729.8
140°	471.1	454.6	438.1	454.6	471.1	475.2	513.7	564.9	590.4	629.8	708.5
142.5°	480.6	465.3	450.1	465.3	480.6	484.4	519.8	566.9	590.4	625.0	694.1
145°	495.0	481.7	468.5	481.7	495.0	498.3	527.7	566.9	586.4	614.7	671.2
147.5°	512.7	499.7	486.8	499.7	512.7	515.9	539.4	570.7	586.4	608.7	653.2
150°	522.1	510.4	498.7	510.4	522.1	525.1	545.5	572.8	586.4	605.2	642.8
152.5°	528.8	520.0	511.1	520.0	528.8	531.1	549.5	574.1	586.4	602.4	634.6
155°	542.5	536.0	529.5	536.0	542.5	544.2	558.2	577.0	586.4	599.2	624.7
157.5°	555.7	549.4	543.0	549.4	555.7	557.3	567.0	580.0	586.4	596.4	616.2
160°	562.1	557.1	552.2	557.1	562.1	563.3	571.0	581.3	586.4	594.9	611.9
162.5°	568.8	565.0	561.3	565.0	568.8	569.7	575.3	582.7	586.4	593.6	608.0
165°	578.0	574.7	571.3	574.7	578.0	578.9	581.4	584.7	586.4	591.6	601.8
167.5°	583.7	582.0	580.5	582.0	583.7	584.0	586.2	589.1	590.4	593.8	600.5
170°	589.7	588.0	586.4	588.0	589.7	590.1	590.2	590.4	590.4	593.8	600.5
172.5°	590.4	590.0	589.7	590.0	590.4	590.4	590.4	590.4	590.4	593.1	598.4
175°	594.1	594.1	594.1	594.1	594.1	594.1	592.8	591.2	590.4	592.1	595.4
177.5°	594.1	594.1	594.1	594.1	594.1	594.1	593.1	591.8	591.2	592.5	595.2
180°	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1



TEST NUMBER: P935422

CATALOG NUMBER: SQ4-FA-125U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9	545.9
2.5°	526.8	525.2	527.2	521.6	527.2	525.2	526.8	530.4	527.2	529.3	531.4
5°	462.2	459.6	451.4	444.6	451.4	459.6	462.2	473.0	478.2	487.5	499.9
7.5°	413.1	411.0	409.0	404.9	409.0	411.0	413.1	416.2	421.4	429.7	439.0
10°	402.2	402.8	405.9	405.4	405.9	402.8	402.2	401.2	399.7	401.2	406.9
12.5°	430.2	434.8	451.8	450.8	451.8	434.8	430.2	409.5	395.5	393.0	394.0
15°	462.2	463.7	467.3	467.9	467.3	463.7	462.2	453.9	412.1	394.0	388.3
17.5°	465.3	465.8	468.4	468.4	468.4	465.8	465.3	461.7	447.8	423.4	391.5
20°	462.7	463.7	468.9	469.9	468.9	463.7	462.7	458.1	450.3	441.5	417.3
22.5°	461.7	463.7	467.9	467.3	467.9	463.7	461.7	454.5	447.8	441.5	431.7
25°	456.5	456.5	457.0	457.5	457.0	456.5	456.5	450.8	437.4	435.8	430.2
27.5°	445.7	446.7	449.8	449.3	449.8	446.7	445.7	443.6	429.1	427.6	423.4
30°	435.8	434.8	432.2	430.2	432.2	434.8	435.8	432.7	418.3	414.2	415.2
32.5°	419.3	416.7	414.2	412.6	414.2	416.7	419.3	418.3	407.4	401.8	402.8
35°	399.7	400.2	399.7	398.2	399.7	400.2	399.7	400.7	394.0	388.8	388.3
37.5°	385.8	386.8	386.2	384.2	386.2	386.8	385.8	384.7	375.5	373.9	374.9
40°	371.3	371.8	371.3	369.8	371.3	371.8	371.3	369.2	356.4	356.8	360.4
42.5°	357.4	356.8	355.3	354.3	355.3	356.8	357.4	354.3	337.7	336.2	342.9
45°	341.3	341.9	338.7	337.2	338.7	341.9	341.3	339.3	322.2	318.1	322.8
47.5°	325.3	325.3	322.8	321.2	322.8	325.3	325.3	322.8	304.7	300.5	303.1
50°	308.3	307.8	304.2	303.6	304.2	307.8	308.3	306.8	287.7	284.1	284.1
52.5°	288.7	288.7	289.2	290.2	289.2	288.7	288.7	289.2	272.1	268.5	267.5
55°	271.7	272.1	275.7	276.8	275.7	272.1	271.7	271.7	256.1	252.5	250.5
57.5°	254.1	254.1	256.6	256.6	256.6	254.1	254.1	253.0	238.1	234.9	233.9
60°	233.9	234.9	237.0	236.5	237.0	234.9	233.9	232.9	220.0	217.9	214.3
62.5°	212.8	213.8	214.3	213.3	214.3	213.8	212.8	209.7	201.9	200.4	195.7
65°	190.6	191.6	192.1	191.0	192.1	191.6	190.6	189.0	183.3	180.7	176.6
67.5°	167.9	167.3	166.8	168.9	166.8	167.3	167.9	165.8	162.2	160.1	154.4
70°	144.6	144.6	144.1	145.1	144.1	144.6	144.6	143.1	141.0	139.4	134.3
72.5°	119.8	119.3	121.4	119.8	121.4	119.3	119.8	119.3	118.3	116.7	111.6
75°	95.6	96.6	95.6	97.1	95.6	96.6	95.6	96.0	95.6	94.5	90.9
77.5°	72.8	73.8	72.8	72.8	72.8	73.8	72.8	73.3	73.3	73.3	70.2
80°	51.7	51.1	51.1	50.6	51.1	51.1	51.7	51.7	52.1	51.1	50.1
82.5°	33.0	32.6	32.6	33.6	32.6	32.6	33.0	33.6	32.6	32.6	32.6
85°	18.1	18.6	17.6	17.6	17.6	18.6	18.1	17.0	18.1	18.1	17.6
87.5°	6.7	6.2	6.2	6.2	6.2	6.2	6.7	7.2	7.2	7.2	7.8
90°	15.2	15.2	15.2	15.2	15.2	15.2	15.2	20.2	26.9	30.3	26.0
92.5°	75.8	72.8	60.7	48.7	60.7	72.8	75.8	107.4	149.5	170.6	149.8
95°	257.2	248.0	211.5	175.0	211.5	248.0	257.2	337.7	445.1	498.7	421.2
97.5°	593.6	576.3	506.8	437.4	506.8	576.3	593.6	644.5	712.3	746.3	617.0
100°	833.6	812.9	730.2	647.4	730.2	812.9	833.6	829.9	824.9	822.4	679.0
102.5°	1038.6	1020.9	949.9	879.1	949.9	1020.9	1038.6	973.7	887.3	844.0	698.5
105°	1277.7	1268.2	1230.2	1192.0	1230.2	1268.2	1277.7	1132.4	938.6	841.6	700.8
107.5°	1402.1	1404.4	1413.6	1422.9	1413.6	1404.4	1402.1	1199.4	929.0	793.8	669.6
110°	1434.0	1444.0	1483.6	1523.3	1483.6	1444.0	1434.0	1207.4	905.1	753.9	641.9



TEST NUMBER: P935422

CATALOG NUMBER: SQ4-FA-125U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1413.7	1429.0	1489.9	1550.9	1489.9	1429.0	1413.7	1181.7	872.3	717.6	617.8
115°	1344.7	1365.8	1450.4	1534.9	1450.4	1365.8	1344.7	1121.2	823.1	674.1	590.1
117.5°	1249.4	1272.8	1366.6	1460.3	1366.6	1272.8	1249.4	1047.7	778.7	644.3	572.8
120°	1185.3	1208.1	1299.1	1390.2	1299.1	1208.1	1185.3	1000.9	755.2	632.3	567.0
122.5°	1121.0	1143.5	1233.3	1323.2	1233.3	1143.5	1121.0	955.1	733.8	623.2	563.9
125°	1036.1	1056.8	1139.5	1222.3	1139.5	1056.8	1036.1	895.1	707.2	613.2	561.3
127.5°	968.0	985.4	1055.2	1125.0	1055.2	985.4	968.0	846.9	685.5	604.8	559.9
130°	924.9	941.0	1005.5	1070.1	1005.5	941.0	924.9	817.1	673.4	601.6	560.8
132.5°	888.3	902.7	960.4	1018.2	960.4	902.7	888.3	791.8	663.1	598.8	561.3
135°	836.5	848.9	898.7	948.4	898.7	848.9	836.5	755.7	648.0	594.1	560.8
137.5°	798.1	808.3	849.1	889.8	849.1	808.3	798.1	729.8	638.7	593.2	564.3
140°	767.5	777.0	815.0	853.2	815.0	777.0	767.5	708.5	629.8	590.4	564.9
142.5°	745.9	754.1	786.9	819.7	786.9	754.1	745.9	694.1	625.0	590.4	566.9
145°	713.6	719.9	744.7	769.5	744.7	719.9	713.6	671.2	614.7	586.4	566.9
147.5°	686.5	691.7	712.2	732.7	712.2	691.7	686.5	653.2	608.7	586.4	570.7
150°	671.0	675.1	691.8	708.5	691.8	675.1	671.0	642.8	605.2	586.4	572.8
152.5°	658.6	661.7	674.3	686.9	674.3	661.7	658.6	634.6	602.4	586.4	574.1
155°	643.9	646.0	654.3	662.6	654.3	646.0	643.9	624.7	599.2	586.4	577.0
157.5°	631.1	632.6	638.4	644.3	638.4	632.6	631.1	616.2	596.4	586.4	580.0
160°	624.7	625.5	628.9	632.3	628.9	625.5	624.7	611.9	594.9	586.4	581.3
162.5°	618.8	619.5	622.8	625.9	622.8	619.5	618.8	608.0	593.6	586.4	582.7
165°	609.5	610.4	613.8	617.2	613.8	610.4	609.5	601.8	591.6	586.4	584.7
167.5°	605.6	606.0	607.4	608.8	607.4	606.0	605.6	600.5	593.8	590.4	589.1
170°	605.6	605.6	605.6	605.6	605.6	605.6	605.6	600.5	593.8	590.4	590.4
172.5°	602.4	602.1	600.8	599.6	600.8	602.1	602.4	598.4	593.1	590.4	590.4
175°	598.0	598.0	598.0	598.0	598.0	598.0	598.0	595.4	592.1	590.4	591.2
177.5°	597.2	596.8	595.4	594.1	595.4	596.8	597.2	595.2	592.5	591.2	591.8
180°	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1	594.1



TEST NUMBER: P935422

CATALOG NUMBER: SQ4-FA-125U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	545.9	545.9	545.9	545.9	545.9
2.5°	539.2	541.7	543.2	545.3	550.5
5°	518.4	528.3	531.4	539.2	548.4
7.5°	473.0	503.0	511.2	529.8	544.3
10°	429.1	459.1	473.6	517.4	539.2
12.5°	406.9	424.5	434.3	495.7	531.9
15°	393.0	405.4	412.6	466.9	523.6
17.5°	382.2	390.9	396.1	438.4	512.3
20°	375.5	379.5	384.2	417.8	499.3
22.5°	370.8	368.2	371.8	403.3	481.8
25°	367.7	357.9	362.0	391.9	461.2
27.5°	370.3	348.6	350.1	381.6	439.4
30°	370.8	337.2	337.7	370.8	415.2
32.5°	367.1	325.3	325.9	357.4	387.8
35°	358.4	311.4	310.8	341.9	350.7
37.5°	346.5	296.4	296.4	324.8	309.8
40°	332.0	281.4	283.0	302.6	273.7
42.5°	314.5	265.4	267.5	273.2	246.9
45°	295.4	249.9	251.5	230.8	226.1
47.5°	274.2	233.9	234.5	191.6	219.4
50°	248.9	217.4	215.4	164.2	219.0
52.5°	226.7	199.4	193.1	148.7	198.8
55°	205.0	180.3	166.8	136.8	184.3
57.5°	185.9	155.5	142.5	122.9	181.3
60°	168.3	131.1	121.4	108.0	166.3
62.5°	153.9	113.1	111.0	97.6	150.8
65°	138.4	100.7	100.2	88.9	128.1
67.5°	123.4	92.4	91.9	80.5	97.6
70°	107.4	83.6	82.6	71.8	72.3
72.5°	90.9	73.8	72.8	64.5	59.9
75°	74.4	62.4	62.0	56.3	48.5
77.5°	58.4	49.6	50.6	45.4	35.7
80°	41.8	36.1	37.2	32.6	26.9
82.5°	27.9	23.8	24.8	20.6	18.1
85°	15.5	13.4	13.9	10.9	8.2
87.5°	7.2	6.2	6.2	4.2	2.6
90°	17.6	11.2	10.4	7.2	4.0
92.5°	108.2	76.9	70.1	43.0	15.9
95°	266.2	149.9	137.5	87.9	38.3
97.5°	358.5	164.6	153.7	109.9	66.1
100°	392.2	177.0	167.1	127.4	87.7
102.5°	407.6	189.3	180.1	143.1	106.0
105°	419.0	207.7	199.9	168.6	137.1
107.5°	421.2	234.8	227.5	198.3	169.0
110°	418.0	249.9	243.3	217.0	190.6



TEST NUMBER: P935422

CATALOG NUMBER: SQ4-FA-125U-050D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	418.0	268.3	262.0	236.9	211.7
115°	422.0	295.8	290.1	266.8	243.6
117.5°	429.8	322.6	317.3	296.2	275.1
120°	436.2	338.1	333.2	313.3	293.4
122.5°	445.4	356.4	351.4	331.4	311.4
125°	457.7	379.9	375.4	357.1	338.9
127.5°	470.0	402.6	398.0	379.6	361.2
130°	479.1	417.8	412.9	393.0	373.1
132.5°	486.4	430.2	425.3	405.4	385.5
135°	494.3	444.5	440.0	422.0	403.9
137.5°	506.3	462.8	458.4	440.4	422.6
140°	513.7	475.2	471.1	454.6	438.1
142.5°	519.8	484.4	480.6	465.3	450.1
145°	527.7	498.3	495.0	481.7	468.5
147.5°	539.4	515.9	512.7	499.7	486.8
150°	545.5	525.1	522.1	510.4	498.7
152.5°	549.5	531.1	528.8	520.0	511.1
155°	558.2	544.2	542.5	536.0	529.5
157.5°	567.0	557.3	555.7	549.4	543.0
160°	571.0	563.3	562.1	557.1	552.2
162.5°	575.3	569.7	568.8	565.0	561.3
165°	581.4	578.9	578.0	574.7	571.3
167.5°	586.2	584.0	583.7	582.0	580.5
170°	590.2	590.1	589.7	588.0	586.4
172.5°	590.4	590.4	590.4	590.0	589.7
175°	592.8	594.1	594.1	594.1	594.1
177.5°	593.1	594.1	594.1	594.1	594.1
180°	594.1	594.1	594.1	594.1	594.1



TEST NUMBER: P935422
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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	7.77	8.46	8.91	9.58	11.15	10.57	11.26	11.71	12.38	13.95
	3H	8.24	8.85	9.38	9.98	11.57	11.89	12.51	13.03	13.64	15.22
	4H	8.42	9.00	9.57	10.14	11.72	12.32	12.91	13.47	14.04	15.63
	6H	8.53	9.07	9.69	10.20	11.80	12.59	13.13	13.75	14.26	15.86
	8H	8.53	9.04	9.69	10.19	11.78	12.66	13.17	13.82	14.32	15.91
	12H	8.49	8.98	9.66	10.12	11.73	12.68	13.17	13.85	14.31	15.93
4H	2H	8.78	9.36	9.94	10.49	12.08	10.96	11.54	12.12	12.68	14.26
	3H	9.79	10.27	10.95	11.43	13.03	12.44	12.93	13.60	14.09	15.68
	4H	10.06	10.50	11.22	11.65	13.27	12.95	13.40	14.12	14.55	16.17
	6H	10.17	10.55	11.34	11.72	13.33	13.30	13.68	14.47	14.85	16.46
	8H	10.17	10.53	11.34	11.69	13.32	13.40	13.76	14.57	14.92	16.54
	12H	10.13	10.46	11.32	11.63	13.26	13.44	13.77	14.63	14.94	16.57
8H	4H	10.49	10.85	11.66	12.01	13.63	13.07	13.42	14.23	14.58	16.21
	6H	10.74	11.04	11.93	12.24	13.87	13.49	13.78	14.68	14.98	16.61
	8H	10.79	11.04	11.98	12.22	13.87	13.63	13.89	14.83	15.07	16.71
	12H	10.76	10.99	11.96	12.17	13.84	13.72	13.94	14.91	15.12	16.80
12H	4H	10.49	10.81	11.67	11.98	13.61	13.02	13.35	14.21	14.52	16.15
	6H	10.80	11.06	12.00	12.24	13.88	13.48	13.74	14.68	14.92	16.56
	8H	10.86	11.09	12.06	12.27	13.94	13.63	13.86	14.83	15.03	16.71