

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: P935070

Luminaire Tested: SQ4-FA-100U-050D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935070
REPORT IS A COMBINATION OF REPORTS P933738 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-050D-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

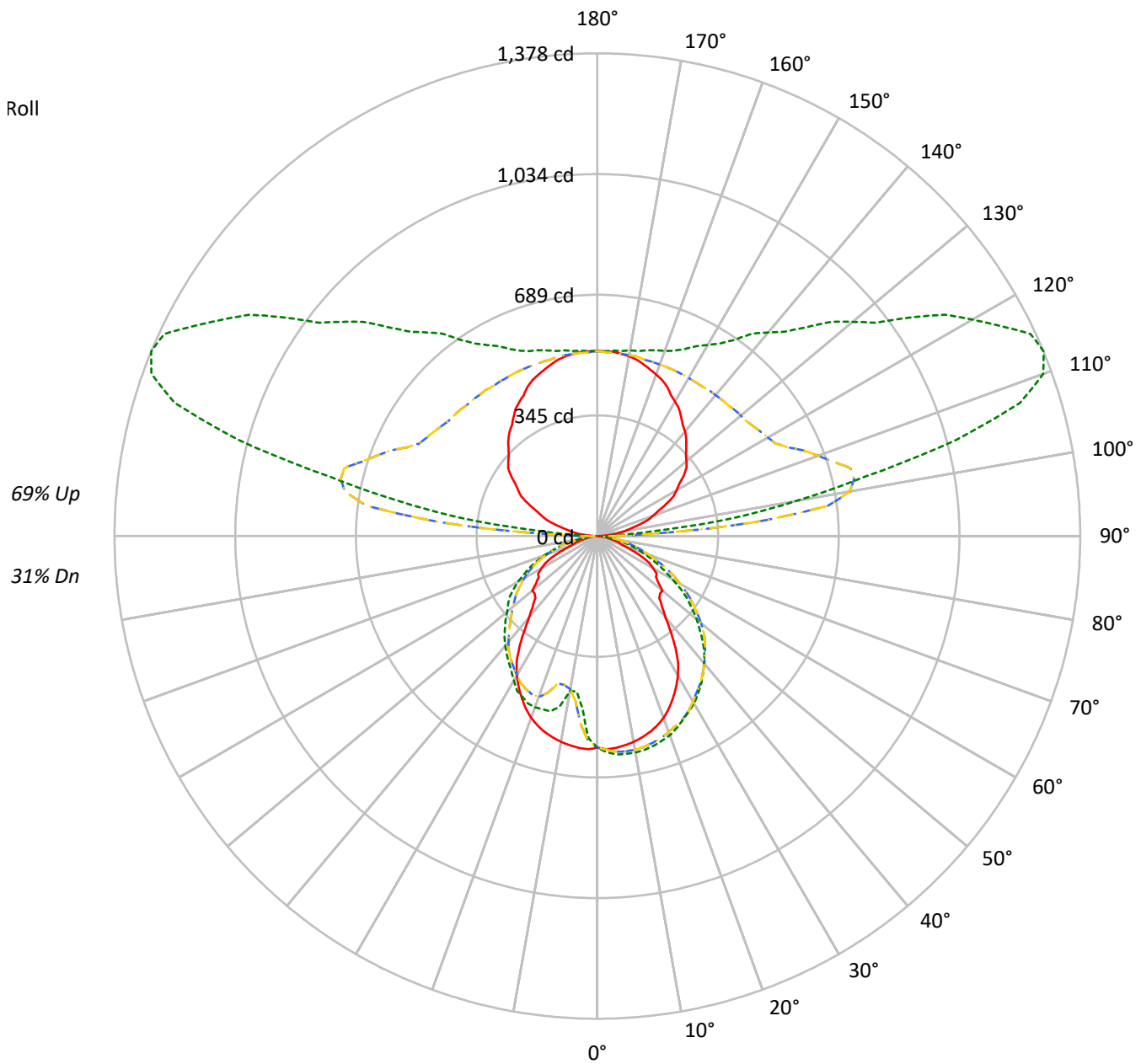
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4991.0 lumens
Efficiency: N/A
Efficacy: 121.1 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): 41.2
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

TEST NUMBER: P935070
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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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5605	5605	5605	5605
5°	5640	5658	5640	4448
10°	5597	5573	5597	3985
15°	5529	5452	5529	4553
20°	5407	5309	5407	4562
25°	5165	5101	5165	4466
30°	4852	4927	4852	4253
35°	4320	4708	4320	4020
40°	3593	4450	3593	3843
45°	3203	4148	3203	3641
50°	3397	3789	3397	3437
55°	3187	3400	3187	3320
60°	3273	2887	3273	3041
65°	2953	2387	2953	2668
70°	2031	1903	2031	2237
75°	1761	1406	1761	1684
80°	1390	931	1390	1012
85°	754	491	754	418

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4921 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	54.5	1.1
10°-20°	154.8	3.1
20°-30°	239.3	4.8
30°-40°	285.7	5.7
40°-50°	287.3	5.8
50°-60°	250.0	5.0
60°-70°	177.3	3.6
70°-80°	93.8	1.9
80°-90°	25.4	0.5
90°-100°	257.4	5.2
100°-110°	676.7	13.6
110°-120°	701.7	14.1
120°-130°	562.8	11.3
130°-140°	441.6	8.8
140°-150°	339.0	6.8
150°-160°	244.1	4.9
160°-170°	149.4	3.0
170°-180°	50.5	1.0
0°-30°	448.6	9.0
0°-40°	734.2	14.7
0°-60°	1271.6	25.5
0°-90°	1568.0	31.4
90°-120°	1635.7	32.8
90°-150°	2979.1	59.7
90°-180°	3423.0	68.6
0°-180°	4991.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	604	604	604	604	604	
5°	607	626	607	492	607	58
15°	579	620	579	518	579	163
25°	510	578	510	506	510	234
35°	388	516	388	441	388	240
45°	250	425	250	373	250	200
55°	204	314	204	306	204	187
65°	142	189	142	211	142	135
75°	54	90	54	107	54	56
85°	9	23	9	19	9	12
90°	4	14	4	14	4	3
95°	34	156	34	156	34	38
105°	122	1060	122	1060	122	129
115°	216	1364	216	1364	216	214
125°	301	1087	301	1087	301	267
135°	359	843	359	843	359	278
145°	416	684	416	684	416	261
155°	471	589	471	589	471	216
165°	508	549	508	549	508	143
175°	528	532	528	532	528	50
180°	528	528	528	528	528	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	609.1	609.1	612.5	613.7	613.7	612.0	610.3	612.0	617.1	618.8	618.2
5°	606.8	611.4	617.7	618.8	620.0	619.4	618.2	619.4	625.1	626.2	626.8
7.5°	602.3	610.8	618.8	620.5	622.2	620.5	620.0	621.1	626.8	627.9	627.9
10°	596.6	608.5	617.7	618.8	620.5	618.8	618.8	621.1	626.8	627.9	628.5
12.5°	588.6	605.1	613.7	614.8	617.1	616.5	616.0	618.2	624.0	625.1	625.1
15°	579.4	598.8	606.8	608.0	612.0	610.8	610.8	613.1	619.4	621.1	620.5
17.5°	566.8	590.9	600.0	601.7	604.6	604.0	604.6	606.8	612.5	613.7	614.3
20°	552.5	580.0	590.9	592.6	595.4	595.4	595.4	598.3	604.0	606.3	606.3
22.5°	533.1	568.5	580.0	581.1	584.6	584.6	585.7	589.7	594.8	595.4	595.4
25°	510.3	555.9	565.6	569.1	572.5	574.2	576.0	578.3	580.0	579.4	580.0
27.5°	486.2	540.0	552.5	554.8	559.4	561.1	563.4	563.9	564.5	566.2	565.1
30°	459.4	517.7	536.5	538.8	546.2	547.4	545.1	546.2	549.1	550.2	551.4
32.5°	429.2	484.5	520.0	525.1	532.0	528.6	528.0	529.7	534.3	534.3	535.4
35°	388.0	458.8	504.6	509.2	514.3	510.3	512.6	513.1	516.0	517.7	517.1
37.5°	342.8	436.6	488.5	491.9	495.9	490.8	494.2	495.9	498.2	497.1	497.1
40°	302.8	401.7	469.7	472.0	475.4	471.4	474.8	476.0	477.1	476.0	475.4
42.5°	273.2	363.4	449.7	452.6	450.3	453.1	454.3	456.6	454.8	452.6	452.6
45°	250.2	353.2	428.0	431.4	428.0	432.6	434.3	434.3	429.2	428.0	427.4
47.5°	242.8	332.5	406.2	406.2	404.5	410.2	413.1	409.1	404.0	402.2	402.2
50°	242.3	309.7	376.6	374.3	382.3	389.1	386.3	382.3	378.3	372.0	372.0
52.5°	220.0	281.7	338.2	346.8	359.4	363.4	358.9	354.9	348.0	345.1	342.8
55°	204.0	252.5	303.4	320.5	333.7	338.8	330.2	326.2	316.0	314.3	313.1
57.5°	200.6	210.3	271.4	293.1	309.1	308.6	303.4	296.0	287.4	285.7	285.2
60°	184.0	152.0	237.1	262.8	279.4	277.7	273.2	266.2	258.2	257.1	256.0
62.5°	166.8	110.2	198.3	227.4	250.8	250.2	246.3	236.0	230.3	227.4	225.1
65°	141.7	92.5	141.2	189.1	222.9	224.0	215.4	208.0	201.7	198.3	197.7
67.5°	108.0	75.4	95.4	157.7	196.0	194.9	184.0	180.5	172.5	170.8	167.4
70°	80.0	50.3	66.3	128.0	169.7	166.8	158.3	154.3	146.9	142.9	140.6
72.5°	66.3	40.6	48.6	99.4	142.9	139.4	132.0	127.5	121.2	117.7	115.4
75°	53.7	42.9	37.1	73.7	116.0	113.7	106.8	102.2	97.1	92.5	93.1
77.5°	39.4	40.0	29.7	54.3	92.0	88.6	84.6	78.9	76.6	72.0	72.0
80°	29.7	31.4	22.3	37.1	66.3	66.3	62.9	58.9	54.9	52.6	52.6
82.5°	20.0	20.0	16.5	23.4	45.2	43.5	41.2	40.0	37.7	36.6	36.6
85°	9.1	11.4	10.3	14.3	24.5	25.7	25.7	24.5	24.0	22.8	23.4
87.5°	2.9	5.1	6.3	8.0	12.6	13.1	13.7	13.7	13.7	14.3	14.3
90°	3.6	6.4	9.2	9.9	15.6	23.2	26.9	23.9	18.0	13.5	13.5
92.5°	14.1	38.3	62.4	68.4	96.2	133.2	151.7	132.9	95.4	67.3	64.7
95°	34.0	78.1	122.3	133.3	236.6	374.4	443.3	395.6	300.2	228.6	220.5
97.5°	58.8	97.7	136.7	146.4	318.7	548.5	663.4	633.2	572.9	527.6	512.2
100°	78.0	113.2	148.5	157.4	348.6	603.6	731.1	733.3	737.7	741.0	722.6
102.5°	94.2	127.2	160.1	168.4	362.4	620.9	750.3	788.7	865.5	923.1	907.4
105°	121.9	149.8	177.6	184.6	372.5	622.9	748.1	834.3	1006.6	1135.8	1127.4
107.5°	150.3	176.3	202.3	208.7	374.4	595.1	705.5	825.8	1066.1	1246.4	1248.4
110°	169.4	192.9	216.3	222.2	371.5	570.6	670.1	804.5	1073.2	1274.7	1283.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	188.2	210.5	232.9	238.5	371.6	549.1	637.9	775.4	1050.3	1256.6	1270.2
115°	216.5	237.1	257.7	262.9	375.1	524.6	599.3	731.8	996.7	1195.4	1214.1
117.5°	244.5	263.3	282.0	286.7	382.0	509.2	572.7	692.2	931.3	1110.7	1131.5
120°	260.8	278.4	296.1	300.5	387.7	504.0	562.1	671.3	889.7	1053.6	1073.9
122.5°	276.8	294.6	312.4	316.9	395.8	501.2	553.9	652.2	848.9	996.5	1016.4
125°	301.3	317.5	333.6	337.7	406.8	498.9	545.0	628.6	795.7	921.0	939.4
127.5°	321.0	337.4	353.8	357.9	417.8	497.7	537.6	609.4	752.8	860.4	875.9
130°	331.7	349.3	367.0	371.4	425.8	498.5	534.8	598.7	726.4	822.2	836.5
132.5°	342.7	360.3	377.9	382.4	432.3	498.9	532.2	589.4	703.8	789.5	802.4
135°	359.0	375.1	391.2	395.2	439.5	498.5	528.1	576.0	671.6	743.5	754.5
137.5°	375.6	391.6	407.4	411.4	450.0	501.6	527.3	567.8	648.7	709.5	718.5
140°	389.4	404.1	418.8	422.4	456.6	502.1	524.8	559.8	629.7	682.2	690.6
142.5°	400.1	413.6	427.2	430.6	462.0	503.9	524.8	555.5	616.9	663.0	670.4
145°	416.4	428.2	440.0	443.0	469.1	504.0	521.3	546.5	596.7	634.3	639.9
147.5°	432.7	444.2	455.6	458.5	479.5	507.4	521.3	541.1	580.6	610.3	614.9
150°	443.3	453.7	464.1	466.7	485.0	509.2	521.3	538.0	571.4	596.4	600.1
152.5°	454.3	462.1	470.0	472.0	488.5	510.3	521.3	535.6	564.0	585.4	588.2
155°	470.6	476.4	482.3	483.8	496.3	513.0	521.3	532.7	555.3	572.3	574.2
157.5°	482.7	488.4	494.0	495.4	504.0	515.5	521.3	530.1	547.8	561.0	562.2
160°	490.8	495.3	499.6	500.7	507.6	516.7	521.3	528.9	544.0	555.3	556.1
162.5°	498.9	502.3	505.6	506.4	511.4	518.0	521.3	527.7	540.4	550.0	550.6
165°	507.8	510.8	513.8	514.5	516.8	519.8	521.3	525.9	535.1	541.9	542.6
167.5°	516.0	517.4	518.9	519.2	521.1	523.6	524.8	527.8	533.8	538.3	538.6
170°	521.3	522.7	524.2	524.5	524.6	524.7	524.8	527.8	533.8	538.3	538.3
172.5°	524.2	524.5	524.7	524.8	524.8	524.8	524.8	527.2	531.9	535.5	535.2
175°	528.1	528.1	528.1	528.1	527.0	525.5	524.8	526.4	529.3	531.6	531.6
177.5°	528.1	528.1	528.1	528.1	527.2	526.1	525.5	526.7	529.1	530.9	530.5
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	619.4	617.7	619.4	618.2	618.8	617.1	612.0	610.3	612.0	613.7	613.7
5°	626.8	625.7	626.8	626.8	626.2	625.1	619.4	618.2	619.4	620.0	618.8
7.5°	629.1	627.4	629.1	627.9	627.9	626.8	621.1	620.0	620.5	622.2	620.5
10°	629.1	627.4	629.1	628.5	627.9	626.8	621.1	618.8	618.8	620.5	618.8
12.5°	626.2	625.1	626.2	625.1	625.1	624.0	618.2	616.0	616.5	617.1	614.8
15°	621.7	620.0	621.7	620.5	621.1	619.4	613.1	610.8	610.8	612.0	608.0
17.5°	614.8	612.5	614.8	614.3	613.7	612.5	606.8	604.6	604.0	604.6	601.7
20°	606.8	605.1	606.8	606.3	606.3	604.0	598.3	595.4	595.4	595.4	592.6
22.5°	594.3	592.6	594.3	595.4	595.4	594.8	589.7	585.7	584.6	584.6	581.1
25°	580.0	578.3	580.0	580.0	579.4	580.0	578.3	576.0	574.2	572.5	569.1
27.5°	566.2	565.1	566.2	565.1	566.2	564.5	563.9	563.4	561.1	559.4	554.8
30°	552.5	551.4	552.5	551.4	550.2	549.1	546.2	545.1	547.4	546.2	538.8
32.5°	535.4	534.3	535.4	535.4	534.3	534.3	529.7	528.0	528.6	532.0	525.1
35°	517.7	516.0	517.7	517.1	517.7	516.0	513.1	512.6	510.3	514.3	509.2
37.5°	497.1	495.4	497.1	497.1	497.1	498.2	495.9	494.2	490.8	495.9	491.9
40°	476.0	473.7	476.0	475.4	476.0	477.1	476.0	474.8	471.4	475.4	472.0
42.5°	452.0	451.4	452.0	452.6	452.6	454.8	456.6	454.3	453.1	450.3	452.6
45°	426.3	425.1	426.3	427.4	428.0	429.2	434.3	434.3	432.6	428.0	431.4
47.5°	398.8	396.0	398.8	402.2	402.2	404.0	409.1	413.1	410.2	404.5	406.2
50°	369.7	370.3	369.7	372.0	372.0	378.3	382.3	386.3	389.1	382.3	374.3
52.5°	341.1	340.5	341.1	342.8	345.1	348.0	354.9	358.9	363.4	359.4	346.8
55°	312.5	313.7	312.5	313.1	314.3	316.0	326.2	330.2	338.8	333.7	320.5
57.5°	284.0	282.3	284.0	285.2	285.7	287.4	296.0	303.4	308.6	309.1	293.1
60°	250.8	248.5	250.8	256.0	257.1	258.2	266.2	273.2	277.7	279.4	262.8
62.5°	221.7	217.7	221.7	225.1	227.4	230.3	236.0	246.3	250.2	250.8	227.4
65°	190.8	189.1	190.8	197.7	198.3	201.7	208.0	215.4	224.0	222.9	189.1
67.5°	162.8	162.8	162.8	167.4	170.8	172.5	180.5	184.0	194.9	196.0	157.7
70°	137.2	136.6	137.2	140.6	142.9	146.9	154.3	158.3	166.8	169.7	128.0
72.5°	112.5	112.0	112.5	115.4	117.7	121.2	127.5	132.0	139.4	142.9	99.4
75°	90.8	89.7	90.8	93.1	92.5	97.1	102.2	106.8	113.7	116.0	73.7
77.5°	69.7	69.7	69.7	72.0	72.0	76.6	78.9	84.6	88.6	92.0	54.3
80°	52.0	51.5	52.0	52.6	52.6	54.9	58.9	62.9	66.3	66.3	37.1
82.5°	36.6	35.4	36.6	36.6	36.6	37.7	40.0	41.2	43.5	45.2	23.4
85°	22.8	22.8	22.8	23.4	22.8	24.0	24.5	25.7	25.7	24.5	14.3
87.5°	14.8	14.3	14.8	14.3	14.3	13.7	13.7	13.7	13.1	12.6	8.0
90°	13.5	13.5	13.5	13.5	13.5	18.0	23.9	26.9	23.2	15.6	9.9
92.5°	53.9	43.2	53.9	64.7	67.3	95.4	132.9	151.7	133.2	96.2	68.4
95°	188.0	155.6	188.0	220.5	228.6	300.2	395.6	443.3	374.4	236.6	133.3
97.5°	450.5	388.8	450.5	512.2	527.6	572.9	633.2	663.4	548.5	318.7	146.4
100°	649.1	575.5	649.1	722.6	741.0	737.7	733.3	731.1	603.6	348.6	157.4
102.5°	844.4	781.5	844.4	907.4	923.1	865.5	788.7	750.3	620.9	362.4	168.4
105°	1093.5	1059.6	1093.5	1127.4	1135.8	1006.6	834.3	748.1	622.9	372.5	184.6
107.5°	1256.6	1264.8	1256.6	1248.4	1246.4	1066.1	825.8	705.5	595.1	374.4	208.7
110°	1318.8	1354.1	1318.8	1283.5	1274.7	1073.2	804.5	670.1	570.6	371.5	222.2



TEST NUMBER: P935070

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1324.3	1378.5	1324.3	1270.2	1256.6	1050.3	775.4	637.9	549.1	371.6	238.5
115°	1289.2	1364.4	1289.2	1214.1	1195.4	996.7	731.8	599.3	524.6	375.1	262.9
117.5°	1214.8	1298.1	1214.8	1131.5	1110.7	931.3	692.2	572.7	509.2	382.0	286.7
120°	1154.8	1235.7	1154.8	1073.9	1053.6	889.7	671.3	562.1	504.0	387.7	300.5
122.5°	1096.4	1176.2	1096.4	1016.4	996.5	848.9	652.2	553.9	501.2	395.8	316.9
125°	1012.9	1086.6	1012.9	939.4	921.0	795.7	628.6	545.0	498.9	406.8	337.7
127.5°	938.1	1000.1	938.1	875.9	860.4	752.8	609.4	537.6	497.7	417.8	357.9
130°	893.8	951.2	893.8	836.5	822.2	726.4	598.7	534.8	498.5	425.8	371.4
132.5°	853.7	905.1	853.7	802.4	789.5	703.8	589.4	532.2	498.9	432.3	382.4
135°	798.8	843.1	798.8	754.5	743.5	671.6	576.0	528.1	498.5	439.5	395.2
137.5°	754.8	791.0	754.8	718.5	709.5	648.7	567.8	527.3	501.6	450.0	411.4
140°	724.5	758.4	724.5	690.6	682.2	629.7	559.8	524.8	502.1	456.6	422.4
142.5°	699.5	728.6	699.5	670.4	663.0	616.9	555.5	524.8	503.9	462.0	430.6
145°	661.9	684.0	661.9	639.9	634.3	596.7	546.5	521.3	504.0	469.1	443.0
147.5°	633.1	651.4	633.1	614.9	610.3	580.6	541.1	521.3	507.4	479.5	458.5
150°	614.9	629.7	614.9	600.1	596.4	571.4	538.0	521.3	509.2	485.0	466.7
152.5°	599.4	610.6	599.4	588.2	585.4	564.0	535.6	521.3	510.3	488.5	472.0
155°	581.6	589.0	581.6	574.2	572.3	555.3	532.7	521.3	513.0	496.3	483.8
157.5°	567.5	572.7	567.5	562.2	561.0	547.8	530.1	521.3	515.5	504.0	495.4
160°	559.1	562.1	559.1	556.1	555.3	544.0	528.9	521.3	516.7	507.6	500.7
162.5°	553.5	556.4	553.5	550.6	550.0	540.4	527.7	521.3	518.0	511.4	506.4
165°	545.6	548.6	545.6	542.6	541.9	535.1	525.9	521.3	519.8	516.8	514.5
167.5°	539.8	541.1	539.8	538.6	538.3	533.8	527.8	524.8	523.6	521.1	519.2
170°	538.3	538.3	538.3	538.3	538.3	533.8	527.8	524.8	524.7	524.6	524.5
172.5°	534.1	533.0	534.1	535.2	535.5	531.9	527.2	524.8	524.8	524.8	524.8
175°	531.6	531.6	531.6	531.6	531.6	529.3	526.4	524.8	525.5	527.0	528.1
177.5°	529.3	528.1	529.3	530.5	530.9	529.1	526.7	525.5	526.1	527.2	528.1
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935070

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	612.5	609.1	609.1	603.4	601.1	599.4	596.6	588.0	585.7	583.4	586.9
5°	617.7	611.4	606.8	596.6	588.0	584.6	573.7	553.1	539.4	529.1	523.4
7.5°	618.8	610.8	602.3	586.3	565.6	556.5	523.4	485.7	475.4	466.3	460.5
10°	617.7	608.5	596.6	572.5	524.0	508.0	474.8	450.3	444.0	442.3	444.0
12.5°	613.7	605.1	588.6	548.5	480.5	469.7	450.3	436.0	434.9	437.7	453.1
15°	606.8	598.8	579.4	516.6	456.6	448.6	434.9	429.7	436.0	456.0	502.3
17.5°	600.0	590.9	566.8	485.1	438.3	432.6	422.8	433.2	468.5	495.4	510.9
20°	590.9	580.0	552.5	462.3	425.1	420.0	415.4	461.7	488.5	498.2	506.9
22.5°	580.0	568.5	533.1	446.3	411.4	407.4	410.2	477.7	488.5	495.4	502.9
25°	565.6	555.9	510.3	433.7	400.5	396.0	406.8	476.0	482.2	483.9	498.8
27.5°	552.5	540.0	486.2	422.3	387.4	385.7	409.7	468.5	473.1	474.8	490.8
30°	536.5	517.7	459.4	410.2	373.7	373.1	410.2	459.4	458.3	462.8	478.8
32.5°	520.0	484.5	429.2	395.4	360.6	360.0	406.2	445.7	444.6	450.8	462.8
35°	504.6	458.8	388.0	378.3	344.0	344.5	396.5	429.7	430.3	436.0	443.4
37.5°	488.5	436.6	342.8	359.4	328.0	328.0	383.4	414.8	413.7	415.4	425.7
40°	469.7	401.7	302.8	334.8	313.1	311.4	367.4	398.8	394.8	394.3	408.5
42.5°	449.7	363.4	273.2	302.3	296.0	293.7	348.0	379.4	372.0	373.7	392.0
45°	428.0	353.2	250.2	255.4	278.3	276.6	326.8	357.2	352.0	356.6	375.4
47.5°	406.2	332.5	242.8	212.0	259.4	258.8	303.4	335.4	332.5	337.1	357.2
50°	376.6	309.7	242.3	181.7	238.3	240.5	275.5	314.3	314.3	318.3	339.4
52.5°	338.2	281.7	220.0	164.5	213.7	220.6	250.8	296.0	297.1	301.1	320.0
55°	303.4	252.5	204.0	151.4	184.5	199.5	226.8	277.2	279.4	283.4	300.6
57.5°	271.4	210.3	200.6	136.0	157.7	172.0	205.7	258.8	259.9	263.4	280.0
60°	237.1	152.0	184.0	119.5	134.3	145.1	186.2	237.1	241.1	243.4	257.7
62.5°	198.3	110.2	166.8	108.0	122.9	125.2	170.3	216.6	221.7	223.4	232.0
65°	141.2	92.5	141.7	98.3	110.8	111.4	153.1	195.4	200.0	202.9	209.2
67.5°	95.4	75.4	108.0	89.1	101.7	102.2	136.6	170.8	177.1	179.4	183.4
70°	66.3	50.3	80.0	79.4	91.4	92.5	118.9	148.6	154.3	156.0	158.3
72.5°	48.6	40.6	66.3	71.4	80.6	81.7	100.5	123.5	129.2	130.9	132.0
75°	37.1	42.9	53.7	62.3	68.6	69.1	82.3	100.5	104.5	105.7	106.2
77.5°	29.7	40.0	39.4	50.3	56.0	54.9	64.6	77.7	81.1	81.1	81.1
80°	22.3	31.4	29.7	36.0	41.2	40.0	46.3	55.5	56.6	57.7	57.2
82.5°	16.5	20.0	20.0	22.8	27.4	26.3	30.8	36.0	36.0	36.0	37.1
85°	10.3	11.4	9.1	12.0	15.4	14.8	17.1	19.4	20.0	20.0	18.8
87.5°	6.3	5.1	2.9	4.6	6.8	6.8	8.0	8.6	8.0	8.0	8.0
90°	9.2	6.4	3.6	6.4	9.2	9.9	15.6	23.2	26.9	23.9	18.0
92.5°	62.4	38.3	14.1	38.3	62.4	68.4	96.2	133.2	151.7	132.9	95.4
95°	122.3	78.1	34.0	78.1	122.3	133.3	236.6	374.4	443.3	395.6	300.2
97.5°	136.7	97.7	58.8	97.7	136.7	146.4	318.7	548.5	663.4	633.2	572.9
100°	148.5	113.2	78.0	113.2	148.5	157.4	348.6	603.6	731.1	733.3	737.7
102.5°	160.1	127.2	94.2	127.2	160.1	168.4	362.4	620.9	750.3	788.7	865.5
105°	177.6	149.8	121.9	149.8	177.6	184.6	372.5	622.9	748.1	834.3	1006.6
107.5°	202.3	176.3	150.3	176.3	202.3	208.7	374.4	595.1	705.5	825.8	1066.1
110°	216.3	192.9	169.4	192.9	216.3	222.2	371.5	570.6	670.1	804.5	1073.2



TEST NUMBER: P935070

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	232.9	210.5	188.2	210.5	232.9	238.5	371.6	549.1	637.9	775.4	1050.3
115°	257.7	237.1	216.5	237.1	257.7	262.9	375.1	524.6	599.3	731.8	996.7
117.5°	282.0	263.3	244.5	263.3	282.0	286.7	382.0	509.2	572.7	692.2	931.3
120°	296.1	278.4	260.8	278.4	296.1	300.5	387.7	504.0	562.1	671.3	889.7
122.5°	312.4	294.6	276.8	294.6	312.4	316.9	395.8	501.2	553.9	652.2	848.9
125°	333.6	317.5	301.3	317.5	333.6	337.7	406.8	498.9	545.0	628.6	795.7
127.5°	353.8	337.4	321.0	337.4	353.8	357.9	417.8	497.7	537.6	609.4	752.8
130°	367.0	349.3	331.7	349.3	367.0	371.4	425.8	498.5	534.8	598.7	726.4
132.5°	377.9	360.3	342.7	360.3	377.9	382.4	432.3	498.9	532.2	589.4	703.8
135°	391.2	375.1	359.0	375.1	391.2	395.2	439.5	498.5	528.1	576.0	671.6
137.5°	407.4	391.6	375.6	391.6	407.4	411.4	450.0	501.6	527.3	567.8	648.7
140°	418.8	404.1	389.4	404.1	418.8	422.4	456.6	502.1	524.8	559.8	629.7
142.5°	427.2	413.6	400.1	413.6	427.2	430.6	462.0	503.9	524.8	555.5	616.9
145°	440.0	428.2	416.4	428.2	440.0	443.0	469.1	504.0	521.3	546.5	596.7
147.5°	455.6	444.2	432.7	444.2	455.6	458.5	479.5	507.4	521.3	541.1	580.6
150°	464.1	453.7	443.3	453.7	464.1	466.7	485.0	509.2	521.3	538.0	571.4
152.5°	470.0	462.1	454.3	462.1	470.0	472.0	488.5	510.3	521.3	535.6	564.0
155°	482.3	476.4	470.6	476.4	482.3	483.8	496.3	513.0	521.3	532.7	555.3
157.5°	494.0	488.4	482.7	488.4	494.0	495.4	504.0	515.5	521.3	530.1	547.8
160°	499.6	495.3	490.8	495.3	499.6	500.7	507.6	516.7	521.3	528.9	544.0
162.5°	505.6	502.3	498.9	502.3	505.6	506.4	511.4	518.0	521.3	527.7	540.4
165°	513.8	510.8	507.8	510.8	513.8	514.5	516.8	519.8	521.3	525.9	535.1
167.5°	518.9	517.4	516.0	517.4	518.9	519.2	521.1	523.6	524.8	527.8	533.8
170°	524.2	522.7	521.3	522.7	524.2	524.5	524.6	524.7	524.8	527.8	533.8
172.5°	524.7	524.5	524.2	524.5	524.7	524.8	524.8	524.8	524.8	527.2	531.9
175°	528.1	528.1	528.1	528.1	528.1	528.1	527.0	525.5	524.8	526.4	529.3
177.5°	528.1	528.1	528.1	528.1	528.1	528.1	527.2	526.1	525.5	526.7	529.1
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935070

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0	604.0
2.5°	582.9	581.1	583.4	577.1	583.4	581.1	582.9	586.9	583.4	585.7	588.0
5°	511.4	508.6	499.4	491.9	499.4	508.6	511.4	523.4	529.1	539.4	553.1
7.5°	457.1	454.8	452.6	448.0	452.6	454.8	457.1	460.5	466.3	475.4	485.7
10°	445.1	445.7	449.1	448.6	449.1	445.7	445.1	444.0	442.3	444.0	450.3
12.5°	476.0	481.1	500.0	498.8	500.0	481.1	476.0	453.1	437.7	434.9	436.0
15°	511.4	513.1	517.1	517.7	517.1	513.1	511.4	502.3	456.0	436.0	429.7
17.5°	514.9	515.4	518.3	518.3	518.3	515.4	514.9	510.9	495.4	468.5	433.2
20°	512.0	513.1	518.9	520.0	518.9	513.1	512.0	506.9	498.2	488.5	461.7
22.5°	510.9	513.1	517.7	517.1	517.7	513.1	510.9	502.9	495.4	488.5	477.7
25°	505.2	505.2	505.7	506.3	505.7	505.2	505.2	498.8	483.9	482.2	476.0
27.5°	493.1	494.2	497.7	497.1	497.7	494.2	493.1	490.8	474.8	473.1	468.5
30°	482.2	481.1	478.2	476.0	478.2	481.1	482.2	478.8	462.8	458.3	459.4
32.5°	464.0	461.1	458.3	456.6	458.3	461.1	464.0	462.8	450.8	444.6	445.7
35°	442.3	442.9	442.3	440.6	442.3	442.9	442.3	443.4	436.0	430.3	429.7
37.5°	426.9	428.0	427.4	425.1	427.4	428.0	426.9	425.7	415.4	413.7	414.8
40°	410.8	411.4	410.8	409.1	410.8	411.4	410.8	408.5	394.3	394.8	398.8
42.5°	395.4	394.8	393.1	392.0	393.1	394.8	395.4	392.0	373.7	372.0	379.4
45°	377.7	378.3	374.8	373.1	374.8	378.3	377.7	375.4	356.6	352.0	357.2
47.5°	360.0	360.0	357.2	355.4	357.2	360.0	360.0	357.2	337.1	332.5	335.4
50°	341.1	340.5	336.5	335.9	336.5	340.5	341.1	339.4	318.3	314.3	314.3
52.5°	319.4	319.4	320.0	321.1	320.0	319.4	319.4	320.0	301.1	297.1	296.0
55°	300.6	301.1	305.1	306.3	305.1	301.1	300.6	300.6	283.4	279.4	277.2
57.5°	281.2	281.2	284.0	284.0	284.0	281.2	281.2	280.0	263.4	259.9	258.8
60°	258.8	259.9	262.2	261.7	262.2	259.9	258.8	257.7	243.4	241.1	237.1
62.5°	235.4	236.6	237.1	236.0	237.1	236.6	235.4	232.0	223.4	221.7	216.6
65°	210.9	212.0	212.6	211.4	212.6	212.0	210.9	209.2	202.9	200.0	195.4
67.5°	185.7	185.1	184.5	186.8	184.5	185.1	185.7	183.4	179.4	177.1	170.8
70°	160.0	160.0	159.4	160.6	159.4	160.0	160.0	158.3	156.0	154.3	148.6
72.5°	132.6	132.0	134.3	132.6	134.3	132.0	132.6	132.0	130.9	129.2	123.5
75°	105.7	106.8	105.7	107.4	105.7	106.8	105.7	106.2	105.7	104.5	100.5
77.5°	80.6	81.7	80.6	80.6	80.6	81.7	80.6	81.1	81.1	81.1	77.7
80°	57.2	56.6	56.6	56.0	56.6	56.6	57.2	57.2	57.7	56.6	55.5
82.5°	36.6	36.0	36.0	37.1	36.0	36.0	36.6	37.1	36.0	36.0	36.0
85°	20.0	20.5	19.4	19.4	19.4	20.5	20.0	18.8	20.0	20.0	19.4
87.5°	7.4	6.8	6.8	6.8	6.8	6.8	7.4	8.0	8.0	8.0	8.6
90°	13.5	13.5	13.5	13.5	13.5	13.5	13.5	18.0	23.9	26.9	23.2
92.5°	67.3	64.7	53.9	43.2	53.9	64.7	67.3	95.4	132.9	151.7	133.2
95°	228.6	220.5	188.0	155.6	188.0	220.5	228.6	300.2	395.6	443.3	374.4
97.5°	527.6	512.2	450.5	388.8	450.5	512.2	527.6	572.9	633.2	663.4	548.5
100°	741.0	722.6	649.1	575.5	649.1	722.6	741.0	737.7	733.3	731.1	603.6
102.5°	923.1	907.4	844.4	781.5	844.4	907.4	923.1	865.5	788.7	750.3	620.9
105°	1135.8	1127.4	1093.5	1059.6	1093.5	1127.4	1135.8	1006.6	834.3	748.1	622.9
107.5°	1246.4	1248.4	1256.6	1264.8	1256.6	1248.4	1246.4	1066.1	825.8	705.5	595.1
110°	1274.7	1283.5	1318.8	1354.1	1318.8	1283.5	1274.7	1073.2	804.5	670.1	570.6



TEST NUMBER: P935070

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1256.6	1270.2	1324.3	1378.5	1324.3	1270.2	1256.6	1050.3	775.4	637.9	549.1
115°	1195.4	1214.1	1289.2	1364.4	1289.2	1214.1	1195.4	996.7	731.8	599.3	524.6
117.5°	1110.7	1131.5	1214.8	1298.1	1214.8	1131.5	1110.7	931.3	692.2	572.7	509.2
120°	1053.6	1073.9	1154.8	1235.7	1154.8	1073.9	1053.6	889.7	671.3	562.1	504.0
122.5°	996.5	1016.4	1096.4	1176.2	1096.4	1016.4	996.5	848.9	652.2	553.9	501.2
125°	921.0	939.4	1012.9	1086.6	1012.9	939.4	921.0	795.7	628.6	545.0	498.9
127.5°	860.4	875.9	938.1	1000.1	938.1	875.9	860.4	752.8	609.4	537.6	497.7
130°	822.2	836.5	893.8	951.2	893.8	836.5	822.2	726.4	598.7	534.8	498.5
132.5°	789.5	802.4	853.7	905.1	853.7	802.4	789.5	703.8	589.4	532.2	498.9
135°	743.5	754.5	798.8	843.1	798.8	754.5	743.5	671.6	576.0	528.1	498.5
137.5°	709.5	718.5	754.8	791.0	754.8	718.5	709.5	648.7	567.8	527.3	501.6
140°	682.2	690.6	724.5	758.4	724.5	690.6	682.2	629.7	559.8	524.8	502.1
142.5°	663.0	670.4	699.5	728.6	699.5	670.4	663.0	616.9	555.5	524.8	503.9
145°	634.3	639.9	661.9	684.0	661.9	639.9	634.3	596.7	546.5	521.3	504.0
147.5°	610.3	614.9	633.1	651.4	633.1	614.9	610.3	580.6	541.1	521.3	507.4
150°	596.4	600.1	614.9	629.7	614.9	600.1	596.4	571.4	538.0	521.3	509.2
152.5°	585.4	588.2	599.4	610.6	599.4	588.2	585.4	564.0	535.6	521.3	510.3
155°	572.3	574.2	581.6	589.0	581.6	574.2	572.3	555.3	532.7	521.3	513.0
157.5°	561.0	562.2	567.5	572.7	567.5	562.2	561.0	547.8	530.1	521.3	515.5
160°	555.3	556.1	559.1	562.1	559.1	556.1	555.3	544.0	528.9	521.3	516.7
162.5°	550.0	550.6	553.5	556.4	553.5	550.6	550.0	540.4	527.7	521.3	518.0
165°	541.9	542.6	545.6	548.6	545.6	542.6	541.9	535.1	525.9	521.3	519.8
167.5°	538.3	538.6	539.8	541.1	539.8	538.6	538.3	533.8	527.8	524.8	523.6
170°	538.3	538.3	538.3	538.3	538.3	538.3	538.3	533.8	527.8	524.8	524.7
172.5°	535.5	535.2	534.1	533.0	534.1	535.2	535.5	531.9	527.2	524.8	524.8
175°	531.6	531.6	531.6	531.6	531.6	531.6	531.6	529.3	526.4	524.8	525.5
177.5°	530.9	530.5	529.3	528.1	529.3	530.5	530.9	529.1	526.7	525.5	526.1
180°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935070

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	604.0	604.0	604.0	604.0	604.0
2.5°	596.6	599.4	601.1	603.4	609.1
5°	573.7	584.6	588.0	596.6	606.8
7.5°	523.4	556.5	565.6	586.3	602.3
10°	474.8	508.0	524.0	572.5	596.6
12.5°	450.3	469.7	480.5	548.5	588.6
15°	434.9	448.6	456.6	516.6	579.4
17.5°	422.8	432.6	438.3	485.1	566.8
20°	415.4	420.0	425.1	462.3	552.5
22.5°	410.2	407.4	411.4	446.3	533.1
25°	406.8	396.0	400.5	433.7	510.3
27.5°	409.7	385.7	387.4	422.3	486.2
30°	410.2	373.1	373.7	410.2	459.4
32.5°	406.2	360.0	360.6	395.4	429.2
35°	396.5	344.5	344.0	378.3	388.0
37.5°	383.4	328.0	328.0	359.4	342.8
40°	367.4	311.4	313.1	334.8	302.8
42.5°	348.0	293.7	296.0	302.3	273.2
45°	326.8	276.6	278.3	255.4	250.2
47.5°	303.4	258.8	259.4	212.0	242.8
50°	275.5	240.5	238.3	181.7	242.3
52.5°	250.8	220.6	213.7	164.5	220.0
55°	226.8	199.5	184.5	151.4	204.0
57.5°	205.7	172.0	157.7	136.0	200.6
60°	186.2	145.1	134.3	119.5	184.0
62.5°	170.3	125.2	122.9	108.0	166.8
65°	153.1	111.4	110.8	98.3	141.7
67.5°	136.6	102.2	101.7	89.1	108.0
70°	118.9	92.5	91.4	79.4	80.0
72.5°	100.5	81.7	80.6	71.4	66.3
75°	82.3	69.1	68.6	62.3	53.7
77.5°	64.6	54.9	56.0	50.3	39.4
80°	46.3	40.0	41.2	36.0	29.7
82.5°	30.8	26.3	27.4	22.8	20.0
85°	17.1	14.8	15.4	12.0	9.1
87.5°	8.0	6.8	6.8	4.6	2.9
90°	15.6	9.9	9.2	6.4	3.6
92.5°	96.2	68.4	62.4	38.3	14.1
95°	236.6	133.3	122.3	78.1	34.0
97.5°	318.7	146.4	136.7	97.7	58.8
100°	348.6	157.4	148.5	113.2	78.0
102.5°	362.4	168.4	160.1	127.2	94.2
105°	372.5	184.6	177.6	149.8	121.9
107.5°	374.4	208.7	202.3	176.3	150.3
110°	371.5	222.2	216.3	192.9	169.4



TEST NUMBER: P935070

CATALOG NUMBER: SQ4-FA-100U-050D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	371.6	238.5	232.9	210.5	188.2
115°	375.1	262.9	257.7	237.1	216.5
117.5°	382.0	286.7	282.0	263.3	244.5
120°	387.7	300.5	296.1	278.4	260.8
122.5°	395.8	316.9	312.4	294.6	276.8
125°	406.8	337.7	333.6	317.5	301.3
127.5°	417.8	357.9	353.8	337.4	321.0
130°	425.8	371.4	367.0	349.3	331.7
132.5°	432.3	382.4	377.9	360.3	342.7
135°	439.5	395.2	391.2	375.1	359.0
137.5°	450.0	411.4	407.4	391.6	375.6
140°	456.6	422.4	418.8	404.1	389.4
142.5°	462.0	430.6	427.2	413.6	400.1
145°	469.1	443.0	440.0	428.2	416.4
147.5°	479.5	458.5	455.6	444.2	432.7
150°	485.0	466.7	464.1	453.7	443.3
152.5°	488.5	472.0	470.0	462.1	454.3
155°	496.3	483.8	482.3	476.4	470.6
157.5°	504.0	495.4	494.0	488.4	482.7
160°	507.6	500.7	499.6	495.3	490.8
162.5°	511.4	506.4	505.6	502.3	498.9
165°	516.8	514.5	513.8	510.8	507.8
167.5°	521.1	519.2	518.9	517.4	516.0
170°	524.6	524.5	524.2	522.7	521.3
172.5°	524.8	524.8	524.7	524.5	524.2
175°	527.0	528.1	528.1	528.1	528.1
177.5°	527.2	528.1	528.1	528.1	528.1
180°	528.1	528.1	528.1	528.1	528.1



TEST NUMBER: P935070
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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	8.76	9.47	9.86	10.57	12.09	11.56	12.27	12.66	13.37	14.88
	3H	9.22	9.86	10.33	10.97	12.50	12.88	13.52	13.99	14.63	16.16
	4H	9.41	10.02	10.53	11.12	12.66	13.31	13.92	14.43	15.03	16.56
	6H	9.52	10.08	10.65	11.19	12.74	13.58	14.14	14.71	15.25	16.80
	8H	9.52	10.05	10.65	11.17	12.72	13.65	14.18	14.78	15.30	16.85
	12H	9.48	9.99	10.62	11.11	12.67	13.68	14.18	14.81	15.30	16.87
4H	2H	9.76	10.37	10.89	11.48	13.02	11.95	12.56	13.08	13.67	15.20
	3H	10.78	11.28	11.91	12.42	13.97	13.43	13.94	14.57	15.07	16.62
	4H	11.05	11.51	12.18	12.64	14.21	13.95	14.41	15.08	15.53	17.10
	6H	11.16	11.56	12.31	12.71	14.27	14.29	14.69	15.44	15.84	17.40
	8H	11.17	11.54	12.31	12.68	14.25	14.39	14.77	15.54	15.90	17.48
	12H	11.13	11.46	12.29	12.61	14.20	14.44	14.78	15.60	15.93	17.51
8H	4H	11.48	11.86	12.63	12.99	14.57	14.06	14.43	15.20	15.57	17.15
	6H	11.74	12.05	12.90	13.23	14.80	14.48	14.79	15.65	15.97	17.54
	8H	11.78	12.05	12.95	13.21	14.80	14.63	14.90	15.80	16.06	17.65
	12H	11.76	11.99	12.93	13.15	14.78	14.71	14.95	15.89	16.11	17.73
12H	4H	11.48	11.82	12.64	12.97	14.55	14.02	14.35	15.18	15.50	17.09
	6H	11.80	12.07	12.97	13.23	14.82	14.48	14.75	15.65	15.91	17.50
	8H	11.86	12.09	13.03	13.25	14.88	14.63	14.86	15.80	16.02	17.65