

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: P935122

Luminaire Tested: SQ4-FA-100U-075D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935122
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

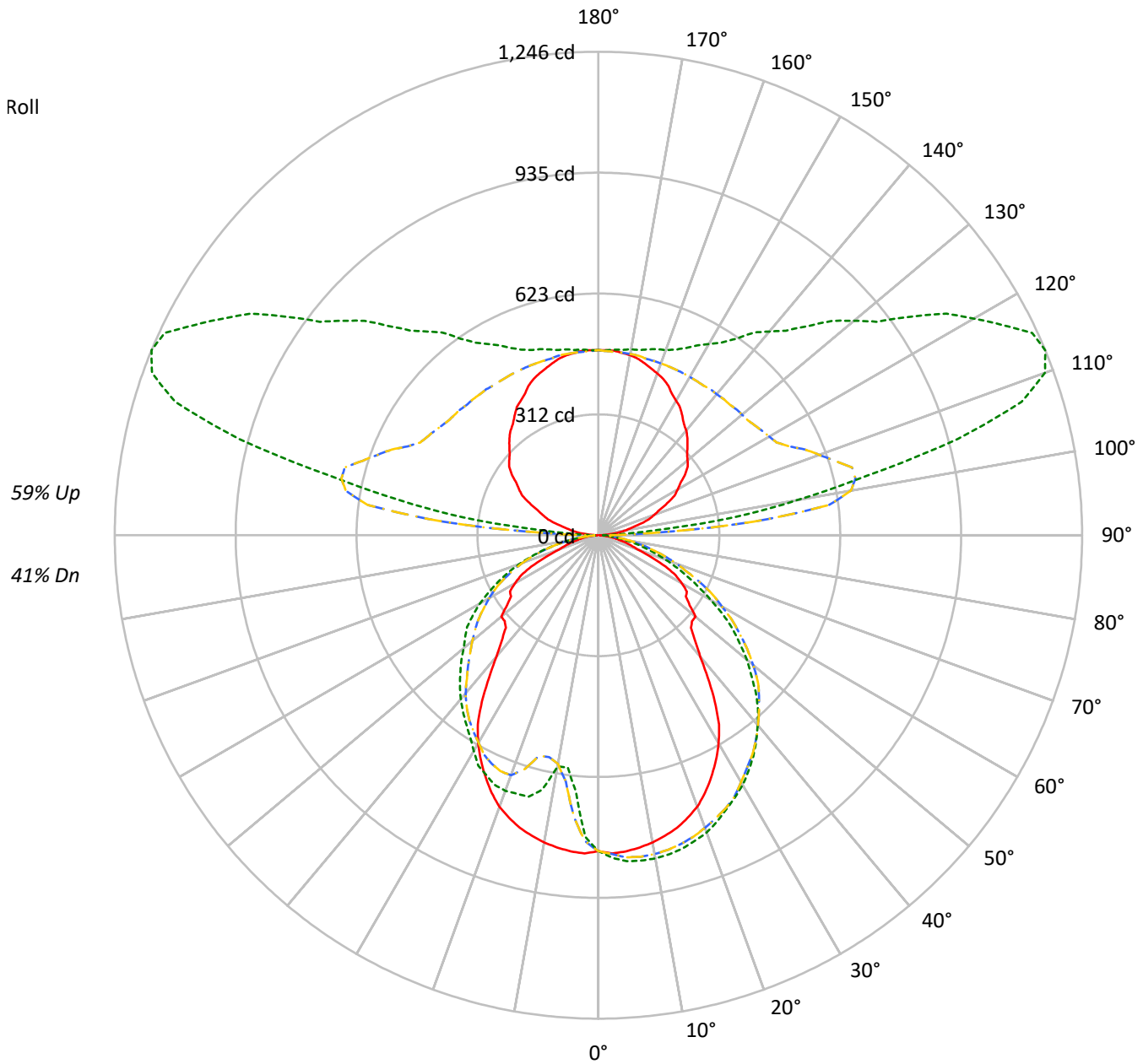
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5205.9 lumens
Efficiency: N/A
Efficacy: 105.8 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: General Diffuse

Input Watts (W): 49.2
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: P935122
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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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	40	40	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	34	34	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	29	29	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	25	25	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	22	22	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	19	19	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	13	13	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	12	12	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	7553	7553	7553	7553
5°	7601	7625	7601	5995
10°	7542	7511	7542	5369
15°	7452	7348	7452	6136
20°	7287	7155	7287	6149
25°	6960	6874	6960	6018
30°	6540	6640	6540	5732
35°	5821	6345	5821	5417
40°	4843	5998	4843	5180
45°	4318	5591	4318	4907
50°	4578	5105	4578	4633
55°	4296	4583	4296	4475
60°	4410	3892	4410	4098
65°	3980	3217	3980	3597
70°	2737	2563	2737	3015
75°	2374	1895	2374	2270
80°	1872	1253	1872	1365
85°	1019	664	1019	565

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 6631 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	1.4
10°-20°	208.6	4.0
20°-30°	322.5	6.2
30°-40°	385.0	7.4
40°-50°	387.3	7.4
50°-60°	337.0	6.5
60°-70°	238.9	4.6
70°-80°	126.4	2.4
80°-90°	33.3	0.6
90°-100°	232.6	4.5
100°-110°	611.6	11.7
110°-120°	634.1	12.2
120°-130°	508.6	9.8
130°-140°	399.1	7.7
140°-150°	306.3	5.9
150°-160°	220.6	4.2
160°-170°	135.0	2.6
170°-180°	45.6	0.9
0°-30°	604.6	11.6
0°-40°	989.6	19.0
0°-60°	1713.8	32.9
0°-90°	2112.3	40.6
90°-120°	1478.3	28.4
90°-150°	2692.4	51.7
90°-180°	3094.0	59.4
0°-180°	5205.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	814	814	814	814	814	
5°	818	843	818	663	818	78
15°	781	836	781	698	781	220
25°	688	779	688	682	688	316
35°	523	695	523	594	523	324
45°	337	573	337	503	337	270
55°	275	423	275	413	275	253
65°	191	255	191	285	191	182
75°	72	121	72	145	72	76
85°	12	31	12	26	12	17
90°	3	12	3	12	3	3
95°	31	141	31	141	31	34
105°	110	958	110	958	110	117
115°	196	1233	196	1233	196	193
125°	272	982	272	982	272	242
135°	324	762	324	762	324	251
145°	376	618	376	618	376	236
155°	425	532	425	532	425	195
165°	459	496	459	496	459	130
175°	477	480	477	480	477	45
180°	477	477	477	477	477	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	820.9	820.9	825.6	827.1	827.1	824.8	822.5	824.8	831.8	834.1	833.3
5°	817.8	824.1	832.5	834.1	835.6	834.8	833.3	834.8	842.5	844.1	844.8
7.5°	811.7	823.3	834.1	836.4	838.7	836.4	835.6	837.1	844.8	846.4	846.4
10°	804.0	820.1	832.5	834.1	836.4	834.1	834.1	837.1	844.8	846.4	847.2
12.5°	793.2	815.5	827.1	828.7	831.8	831.0	830.2	833.3	841.0	842.5	842.5
15°	780.9	807.0	817.8	819.4	824.8	823.3	823.3	826.4	834.8	837.1	836.4
17.5°	763.9	796.3	808.6	810.9	814.7	814.0	814.7	817.8	825.6	827.1	827.9
20°	744.7	781.6	796.3	798.6	802.4	802.4	802.4	806.3	814.0	817.0	817.0
22.5°	718.5	766.2	781.6	783.2	787.8	787.8	789.3	794.7	801.6	802.4	802.4
25°	687.7	749.3	762.4	767.0	771.6	773.9	776.2	779.3	781.6	780.9	781.6
27.5°	655.3	727.7	744.7	747.7	753.9	756.2	759.3	760.1	760.8	763.1	761.6
30°	619.2	697.7	723.1	726.2	736.2	737.7	734.7	736.2	740.0	741.6	743.1
32.5°	578.3	653.0	700.8	707.7	716.9	712.3	711.6	713.9	720.0	720.0	721.6
35°	522.9	618.4	680.0	686.1	693.1	687.7	690.8	691.5	695.4	697.7	696.9
37.5°	462.1	588.4	658.4	663.0	668.4	661.5	666.1	668.4	671.5	670.0	670.0
40°	408.2	541.4	633.0	636.1	640.7	635.3	639.9	641.5	643.0	641.5	640.7
42.5°	368.1	489.8	606.1	609.9	606.8	610.7	612.2	615.3	613.0	609.9	609.9
45°	337.3	475.9	576.8	581.4	576.8	583.0	585.3	585.3	578.3	576.8	576.0
47.5°	327.3	448.2	547.5	547.5	545.2	552.9	556.8	551.4	544.5	542.2	542.2
50°	326.6	417.4	507.5	504.4	515.2	524.4	520.6	515.2	509.8	501.3	501.3
52.5°	296.5	379.7	455.9	467.5	484.4	489.8	483.6	478.2	469.0	465.2	462.1
55°	275.0	340.4	408.9	432.0	449.8	456.7	445.1	439.7	425.9	423.6	422.0
57.5°	270.3	283.4	365.8	395.1	416.6	415.9	408.9	398.9	387.4	385.1	384.3
60°	247.9	204.8	319.6	354.3	376.6	374.3	368.1	358.9	348.1	346.6	345.0
62.5°	224.8	148.6	267.2	306.5	338.1	337.3	331.9	318.1	310.4	306.5	303.5
65°	191.0	124.7	190.2	254.9	300.4	301.9	290.4	280.4	271.8	267.2	266.4
67.5°	145.5	101.6	128.6	212.5	264.1	262.6	247.9	243.3	232.5	230.2	225.6
70°	107.8	67.8	89.3	172.5	228.7	224.8	213.3	207.9	197.9	192.5	189.4
72.5°	89.3	54.7	65.4	134.0	192.5	187.9	177.9	171.7	163.2	158.6	155.5
75°	72.4	57.8	50.1	99.3	156.3	153.2	144.0	137.8	130.9	124.7	125.5
77.5°	53.1	53.9	40.0	73.2	124.0	119.4	114.0	106.3	103.2	97.0	97.0
80°	40.0	42.4	30.0	50.1	89.3	89.3	84.7	79.3	73.9	70.8	70.8
82.5°	27.0	27.0	22.3	31.6	60.8	58.5	55.4	53.9	50.8	49.3	49.3
85°	12.3	15.4	13.9	19.2	33.1	34.6	34.6	33.1	32.3	30.8	31.6
87.5°	3.8	6.9	8.5	10.8	16.9	17.7	18.5	18.5	18.5	19.2	19.2
90°	3.2	5.8	8.3	8.9	14.1	20.9	24.3	21.6	16.2	12.2	12.2
92.5°	12.8	34.6	56.4	61.8	86.9	120.4	137.1	120.1	86.2	60.8	58.4
95°	30.7	70.6	110.5	120.4	213.8	338.3	400.6	357.5	271.3	206.6	199.3
97.5°	53.1	88.3	123.5	132.3	288.1	495.7	599.5	572.3	517.7	476.9	462.9
100°	70.5	102.3	134.2	142.2	315.1	545.5	660.7	662.7	666.7	669.7	653.0
102.5°	85.2	115.0	144.7	152.2	327.5	561.2	678.1	712.8	782.2	834.3	820.0
105°	110.2	135.4	160.5	166.9	336.6	562.9	676.1	754.0	909.7	1026.5	1018.9
107.5°	135.8	159.3	182.8	188.6	338.3	537.8	637.6	746.3	963.5	1126.4	1128.3
110°	153.1	174.3	195.5	200.8	335.7	515.7	605.6	727.0	969.9	1152.0	1160.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	170.1	190.3	210.4	215.5	335.9	496.3	576.5	700.8	949.3	1135.7	1147.9
115°	195.7	214.3	232.9	237.6	339.0	474.1	541.6	661.4	900.7	1080.3	1097.2
117.5°	221.0	237.9	254.9	259.1	345.3	460.2	517.6	625.6	841.7	1003.8	1022.6
120°	235.7	251.6	267.6	271.6	350.4	455.5	508.0	606.7	804.1	952.2	970.5
122.5°	250.2	266.3	282.4	286.4	357.7	453.0	500.6	589.4	767.2	900.6	918.6
125°	272.3	286.9	301.5	305.2	367.7	450.9	492.6	568.1	719.1	832.4	849.0
127.5°	290.1	304.9	319.8	323.5	377.6	449.8	485.9	550.7	680.4	777.6	791.6
130°	299.8	315.7	331.6	335.6	384.8	450.5	483.3	541.1	656.5	743.1	756.0
132.5°	309.7	325.6	341.6	345.6	390.7	450.9	481.0	532.7	636.0	713.6	725.2
135°	324.5	339.0	353.5	357.1	397.2	450.5	477.2	520.5	607.0	671.9	681.9
137.5°	339.5	353.9	368.2	371.8	406.7	453.3	476.6	513.1	586.3	641.2	649.3
140°	352.0	365.2	378.5	381.8	412.6	453.8	474.3	505.9	569.1	616.5	624.2
142.5°	361.6	373.8	386.1	389.2	417.6	455.4	474.3	502.0	557.6	599.2	605.8
145°	376.3	387.0	397.6	400.3	424.0	455.5	471.2	493.9	539.2	573.3	578.3
147.5°	391.1	401.5	411.8	414.4	433.4	458.5	471.2	489.0	524.8	551.6	555.7
150°	400.6	410.0	419.4	421.8	438.3	460.2	471.2	486.3	516.4	539.0	542.3
152.5°	410.6	417.6	424.8	426.6	441.4	461.2	471.2	484.0	509.7	529.1	531.6
155°	425.3	430.6	435.9	437.2	448.5	463.6	471.2	481.4	501.9	517.2	518.9
157.5°	436.2	441.4	446.4	447.8	455.5	465.9	471.2	479.1	495.0	507.0	508.1
160°	443.6	447.6	451.5	452.5	458.8	467.0	471.2	478.0	491.6	501.9	502.6
162.5°	450.9	453.9	456.9	457.7	462.2	468.2	471.2	476.9	488.4	497.0	497.7
165°	458.9	461.6	464.3	465.0	467.1	469.8	471.2	475.3	483.6	489.7	490.4
167.5°	466.3	467.6	468.9	469.2	470.9	473.2	474.3	477.0	482.4	486.5	486.8
170°	471.2	472.4	473.7	474.0	474.1	474.2	474.3	477.0	482.4	486.5	486.5
172.5°	473.7	474.0	474.2	474.3	474.3	474.3	474.3	476.5	480.7	483.9	483.7
175°	477.2	477.2	477.2	477.2	476.2	474.9	474.3	475.7	478.4	480.4	480.4
177.5°	477.2	477.2	477.2	477.2	476.5	475.5	474.9	476.0	478.2	479.8	479.5
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	834.8	832.5	834.8	833.3	834.1	831.8	824.8	822.5	824.8	827.1	827.1
5°	844.8	843.3	844.8	844.8	844.1	842.5	834.8	833.3	834.8	835.6	834.1
7.5°	847.9	845.6	847.9	846.4	846.4	844.8	837.1	835.6	836.4	838.7	836.4
10°	847.9	845.6	847.9	847.2	846.4	844.8	837.1	834.1	834.1	836.4	834.1
12.5°	844.1	842.5	844.1	842.5	842.5	841.0	833.3	830.2	831.0	831.8	828.7
15°	837.9	835.6	837.9	836.4	837.1	834.8	826.4	823.3	823.3	824.8	819.4
17.5°	828.7	825.6	828.7	827.9	827.1	825.6	817.8	814.7	814.0	814.7	810.9
20°	817.8	815.5	817.8	817.0	817.0	814.0	806.3	802.4	802.4	802.4	798.6
22.5°	800.9	798.6	800.9	802.4	802.4	801.6	794.7	789.3	787.8	787.8	783.2
25°	781.6	779.3	781.6	781.6	780.9	781.6	779.3	776.2	773.9	771.6	767.0
27.5°	763.1	761.6	763.1	761.6	763.1	760.8	760.1	759.3	756.2	753.9	747.7
30°	744.7	743.1	744.7	743.1	741.6	740.0	736.2	734.7	737.7	736.2	726.2
32.5°	721.6	720.0	721.6	721.6	720.0	720.0	713.9	711.6	712.3	716.9	707.7
35°	697.7	695.4	697.7	696.9	697.7	695.4	691.5	690.8	687.7	693.1	686.1
37.5°	670.0	667.7	670.0	670.0	670.0	671.5	668.4	666.1	661.5	668.4	663.0
40°	641.5	638.4	641.5	640.7	641.5	643.0	641.5	639.9	635.3	640.7	636.1
42.5°	609.1	608.4	609.1	609.9	609.9	613.0	615.3	612.2	610.7	606.8	609.9
45°	574.5	573.0	574.5	576.0	576.8	578.3	585.3	585.3	583.0	576.8	581.4
47.5°	537.5	533.7	537.5	542.2	542.2	544.5	551.4	556.8	552.9	545.2	547.5
50°	498.3	499.0	498.3	501.3	501.3	509.8	515.2	520.6	524.4	515.2	504.4
52.5°	459.8	459.0	459.8	462.1	465.2	469.0	478.2	483.6	489.8	484.4	467.5
55°	421.3	422.8	421.3	422.0	423.6	425.9	439.7	445.1	456.7	449.8	432.0
57.5°	382.8	380.5	382.8	384.3	385.1	387.4	398.9	408.9	415.9	416.6	395.1
60°	338.1	335.0	338.1	345.0	346.6	348.1	358.9	368.1	374.3	376.6	354.3
62.5°	298.8	293.4	298.8	303.5	306.5	310.4	318.1	331.9	337.3	338.1	306.5
65°	257.2	254.9	257.2	266.4	267.2	271.8	280.4	290.4	301.9	300.4	254.9
67.5°	219.4	219.4	219.4	225.6	230.2	232.5	243.3	247.9	262.6	264.1	212.5
70°	184.8	184.0	184.8	189.4	192.5	197.9	207.9	213.3	224.8	228.7	172.5
72.5°	151.7	150.9	151.7	155.5	158.6	163.2	171.7	177.9	187.9	192.5	134.0
75°	122.4	120.9	122.4	125.5	124.7	130.9	137.8	144.0	153.2	156.3	99.3
77.5°	93.9	93.9	93.9	97.0	97.0	103.2	106.3	114.0	119.4	124.0	73.2
80°	70.1	69.3	70.1	70.8	70.8	73.9	79.3	84.7	89.3	89.3	50.1
82.5°	49.3	47.7	49.3	49.3	49.3	50.8	53.9	55.4	58.5	60.8	31.6
85°	30.8	30.8	30.8	31.6	30.8	32.3	33.1	34.6	34.6	33.1	19.2
87.5°	20.0	19.2	20.0	19.2	19.2	18.5	18.5	18.5	17.7	16.9	10.8
90°	12.2	12.2	12.2	12.2	12.2	16.2	21.6	24.3	20.9	14.1	8.9
92.5°	48.7	39.0	48.7	58.4	60.8	86.2	120.1	137.1	120.4	86.9	61.8
95°	169.9	140.6	169.9	199.3	206.6	271.3	357.5	400.6	338.3	213.8	120.4
97.5°	407.1	351.4	407.1	462.9	476.9	517.7	572.3	599.5	495.7	288.1	132.3
100°	586.6	520.1	586.6	653.0	669.7	666.7	662.7	660.7	545.5	315.1	142.2
102.5°	763.1	706.2	763.1	820.0	834.3	782.2	712.8	678.1	561.2	327.5	152.2
105°	988.2	957.6	988.2	1018.9	1026.5	909.7	754.0	676.1	562.9	336.6	166.9
107.5°	1135.7	1143.1	1135.7	1128.3	1126.4	963.5	746.3	637.6	537.8	338.3	188.6
110°	1191.9	1223.8	1191.9	1160.0	1152.0	969.9	727.0	605.6	515.7	335.7	200.8



TEST NUMBER: P935122

CATALOG NUMBER: SQ4-FA-100U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1196.9	1245.9	1196.9	1147.9	1135.7	949.3	700.8	576.5	496.3	335.9	215.5
115°	1165.2	1233.1	1165.2	1097.2	1080.3	900.7	661.4	541.6	474.1	339.0	237.6
117.5°	1097.9	1173.2	1097.9	1022.6	1003.8	841.7	625.6	517.6	460.2	345.3	259.1
120°	1043.7	1116.8	1043.7	970.5	952.2	804.1	606.7	508.0	455.5	350.4	271.6
122.5°	990.8	1063.0	990.8	918.6	900.6	767.2	589.4	500.6	453.0	357.7	286.4
125°	915.5	982.0	915.5	849.0	832.4	719.1	568.1	492.6	450.9	367.7	305.2
127.5°	847.8	903.8	847.8	791.6	777.6	680.4	550.7	485.9	449.8	377.6	323.5
130°	807.8	859.6	807.8	756.0	743.1	656.5	541.1	483.3	450.5	384.8	335.6
132.5°	771.5	818.0	771.5	725.2	713.6	636.0	532.7	481.0	450.9	390.7	345.6
135°	721.9	761.9	721.9	681.9	671.9	607.0	520.5	477.2	450.5	397.2	357.1
137.5°	682.1	714.9	682.1	649.3	641.2	586.3	513.1	476.6	453.3	406.7	371.8
140°	654.8	685.4	654.8	624.2	616.5	569.1	505.9	474.3	453.8	412.6	381.8
142.5°	632.2	658.5	632.2	605.8	599.2	557.6	502.0	474.3	455.4	417.6	389.2
145°	598.2	618.2	598.2	578.3	573.3	539.2	493.9	471.2	455.5	424.0	400.3
147.5°	572.2	588.7	572.2	555.7	551.6	524.8	489.0	471.2	458.5	433.4	414.4
150°	555.7	569.1	555.7	542.3	539.0	516.4	486.3	471.2	460.2	438.3	421.8
152.5°	541.7	551.9	541.7	531.6	529.1	509.7	484.0	471.2	461.2	441.4	426.6
155°	525.6	532.3	525.6	518.9	517.2	501.9	481.4	471.2	463.6	448.5	437.2
157.5°	512.9	517.6	512.9	508.1	507.0	495.0	479.1	471.2	465.9	455.5	447.8
160°	505.3	508.0	505.3	502.6	501.9	491.6	478.0	471.2	467.0	458.8	452.5
162.5°	500.3	502.8	500.3	497.7	497.0	488.4	476.9	471.2	468.2	462.2	457.7
165°	493.1	495.8	493.1	490.4	489.7	483.6	475.3	471.2	469.8	467.1	465.0
167.5°	487.9	489.0	487.9	486.8	486.5	482.4	477.0	474.3	473.2	470.9	469.2
170°	486.5	486.5	486.5	486.5	486.5	482.4	477.0	474.3	474.2	474.1	474.0
172.5°	482.7	481.7	482.7	483.7	483.9	480.7	476.5	474.3	474.3	474.3	474.3
175°	480.4	480.4	480.4	480.4	480.4	478.4	475.7	474.3	474.9	476.2	477.2
177.5°	478.4	477.2	478.4	479.5	479.8	478.2	476.0	474.9	475.5	476.5	477.2
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P935122
 CATALOG NUMBER: SQ4-FA-100U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	825.6	820.9	820.9	813.2	810.1	807.8	804.0	792.4	789.3	786.2	790.9
5°	832.5	824.1	817.8	804.0	792.4	787.8	773.2	745.4	727.0	713.1	705.4
7.5°	834.1	823.3	811.7	790.1	762.4	750.1	705.4	654.6	640.7	628.4	620.7
10°	832.5	820.1	804.0	771.6	706.2	684.6	639.9	606.8	598.4	596.1	598.4
12.5°	827.1	815.5	793.2	739.3	647.6	633.0	606.8	587.6	586.0	589.9	610.7
15°	817.8	807.0	780.9	696.2	615.3	604.5	586.0	579.1	587.6	614.5	676.9
17.5°	808.6	796.3	763.9	653.8	590.7	583.0	569.9	583.7	631.5	667.7	688.5
20°	796.3	781.6	744.7	623.0	573.0	566.0	559.9	622.2	658.4	671.5	683.1
22.5°	781.6	766.2	718.5	601.4	554.5	549.1	552.9	643.8	658.4	667.7	677.7
25°	762.4	749.3	687.7	584.5	539.8	533.7	548.3	641.5	650.0	652.3	672.3
27.5°	744.7	727.7	655.3	569.1	522.1	519.8	552.2	631.5	637.6	639.9	661.5
30°	723.1	697.7	619.2	552.9	503.7	502.9	552.9	619.2	617.6	623.8	645.3
32.5°	700.8	653.0	578.3	532.9	485.9	485.2	547.5	600.7	599.1	607.6	623.8
35°	680.0	618.4	522.9	509.8	463.6	464.4	534.5	579.1	579.9	587.6	597.6
37.5°	658.4	588.4	462.1	484.4	442.1	442.1	516.7	559.1	557.6	559.9	573.7
40°	633.0	541.4	408.2	451.3	422.0	419.7	495.2	537.5	532.1	531.4	550.6
42.5°	606.1	489.8	368.1	407.4	398.9	395.9	469.0	511.4	501.3	503.7	528.3
45°	576.8	475.9	337.3	344.3	375.1	372.8	440.5	481.3	474.4	480.6	506.0
47.5°	547.5	448.2	327.3	285.7	349.7	348.9	408.9	452.1	448.2	454.4	481.3
50°	507.5	417.4	326.6	244.9	321.2	324.2	371.2	423.6	423.6	429.0	457.5
52.5°	455.9	379.7	296.5	221.8	288.1	297.3	338.1	398.9	400.5	405.9	431.3
55°	408.9	340.4	275.0	204.0	248.7	268.7	305.8	373.5	376.6	382.0	405.1
57.5°	365.8	283.4	270.3	183.3	212.5	231.8	277.3	348.9	350.4	355.0	377.4
60°	319.6	204.8	247.9	160.9	181.0	195.6	251.0	319.6	325.0	328.1	347.3
62.5°	267.2	148.6	224.8	145.5	165.6	168.6	229.5	291.9	298.8	301.1	312.7
65°	190.2	124.7	191.0	132.4	149.4	150.2	206.4	263.3	269.5	273.4	281.9
67.5°	128.6	101.6	145.5	120.1	137.1	137.8	184.0	230.2	238.7	241.8	247.2
70°	89.3	67.8	107.8	107.0	123.2	124.7	160.2	200.2	207.9	210.2	213.3
72.5°	65.4	54.7	89.3	96.2	108.6	110.1	135.5	166.3	174.0	176.3	177.9
75°	50.1	57.8	72.4	83.9	92.4	93.2	110.9	135.5	140.9	142.5	143.2
77.5°	40.0	53.9	53.1	67.8	75.5	73.9	87.0	104.7	109.3	109.3	109.3
80°	30.0	42.4	40.0	48.5	55.4	53.9	62.4	74.7	76.2	77.8	77.0
82.5°	22.3	27.0	27.0	30.8	37.0	35.4	41.6	48.5	48.5	48.5	50.1
85°	13.9	15.4	12.3	16.2	20.8	20.0	23.1	26.2	27.0	27.0	25.4
87.5°	8.5	6.9	3.8	6.2	9.2	9.2	10.8	11.6	10.8	10.8	10.8
90°	8.3	5.8	3.2	5.8	8.3	8.9	14.1	20.9	24.3	21.6	16.2
92.5°	56.4	34.6	12.8	34.6	56.4	61.8	86.9	120.4	137.1	120.1	86.2
95°	110.5	70.6	30.7	70.6	110.5	120.4	213.8	338.3	400.6	357.5	271.3
97.5°	123.5	88.3	53.1	88.3	123.5	132.3	288.1	495.7	599.5	572.3	517.7
100°	134.2	102.3	70.5	102.3	134.2	142.2	315.1	545.5	660.7	662.7	666.7
102.5°	144.7	115.0	85.2	115.0	144.7	152.2	327.5	561.2	678.1	712.8	782.2
105°	160.5	135.4	110.2	135.4	160.5	166.9	336.6	562.9	676.1	754.0	909.7
107.5°	182.8	159.3	135.8	159.3	182.8	188.6	338.3	537.8	637.6	746.3	963.5
110°	195.5	174.3	153.1	174.3	195.5	200.8	335.7	515.7	605.6	727.0	969.9



TEST NUMBER: P935122

CATALOG NUMBER: SQ4-FA-100U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	210.4	190.3	170.1	190.3	210.4	215.5	335.9	496.3	576.5	700.8	949.3
115°	232.9	214.3	195.7	214.3	232.9	237.6	339.0	474.1	541.6	661.4	900.7
117.5°	254.9	237.9	221.0	237.9	254.9	259.1	345.3	460.2	517.6	625.6	841.7
120°	267.6	251.6	235.7	251.6	267.6	271.6	350.4	455.5	508.0	606.7	804.1
122.5°	282.4	266.3	250.2	266.3	282.4	286.4	357.7	453.0	500.6	589.4	767.2
125°	301.5	286.9	272.3	286.9	301.5	305.2	367.7	450.9	492.6	568.1	719.1
127.5°	319.8	304.9	290.1	304.9	319.8	323.5	377.6	449.8	485.9	550.7	680.4
130°	331.6	315.7	299.8	315.7	331.6	335.6	384.8	450.5	483.3	541.1	656.5
132.5°	341.6	325.6	309.7	325.6	341.6	345.6	390.7	450.9	481.0	532.7	636.0
135°	353.5	339.0	324.5	339.0	353.5	357.1	397.2	450.5	477.2	520.5	607.0
137.5°	368.2	353.9	339.5	353.9	368.2	371.8	406.7	453.3	476.6	513.1	586.3
140°	378.5	365.2	352.0	365.2	378.5	381.8	412.6	453.8	474.3	505.9	569.1
142.5°	386.1	373.8	361.6	373.8	386.1	389.2	417.6	455.4	474.3	502.0	557.6
145°	397.6	387.0	376.3	387.0	397.6	400.3	424.0	455.5	471.2	493.9	539.2
147.5°	411.8	401.5	391.1	401.5	411.8	414.4	433.4	458.5	471.2	489.0	524.8
150°	419.4	410.0	400.6	410.0	419.4	421.8	438.3	460.2	471.2	486.3	516.4
152.5°	424.8	417.6	410.6	417.6	424.8	426.6	441.4	461.2	471.2	484.0	509.7
155°	435.9	430.6	425.3	430.6	435.9	437.2	448.5	463.6	471.2	481.4	501.9
157.5°	446.4	441.4	436.2	441.4	446.4	447.8	455.5	465.9	471.2	479.1	495.0
160°	451.5	447.6	443.6	447.6	451.5	452.5	458.8	467.0	471.2	478.0	491.6
162.5°	456.9	453.9	450.9	453.9	456.9	457.7	462.2	468.2	471.2	476.9	488.4
165°	464.3	461.6	458.9	461.6	464.3	465.0	467.1	469.8	471.2	475.3	483.6
167.5°	468.9	467.6	466.3	467.6	468.9	469.2	470.9	473.2	474.3	477.0	482.4
170°	473.7	472.4	471.2	472.4	473.7	474.0	474.1	474.2	474.3	477.0	482.4
172.5°	474.2	474.0	473.7	474.0	474.2	474.3	474.3	474.3	474.3	476.5	480.7
175°	477.2	477.2	477.2	477.2	477.2	477.2	476.2	474.9	474.3	475.7	478.4
177.5°	477.2	477.2	477.2	477.2	477.2	477.2	476.5	475.5	474.9	476.0	478.2
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P935122
 CATALOG NUMBER: SQ4-FA-100U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	785.5	783.2	786.2	777.8	786.2	783.2	785.5	790.9	786.2	789.3	792.4
5°	689.2	685.4	673.1	663.0	673.1	685.4	689.2	705.4	713.1	727.0	745.4
7.5°	616.1	613.0	609.9	603.8	609.9	613.0	616.1	620.7	628.4	640.7	654.6
10°	599.9	600.7	605.3	604.5	605.3	600.7	599.9	598.4	596.1	598.4	606.8
12.5°	641.5	648.4	673.8	672.3	673.8	648.4	641.5	610.7	589.9	586.0	587.6
15°	689.2	691.5	696.9	697.7	696.9	691.5	689.2	676.9	614.5	587.6	579.1
17.5°	693.8	694.6	698.5	698.5	698.5	694.6	693.8	688.5	667.7	631.5	583.7
20°	690.0	691.5	699.2	700.8	699.2	691.5	690.0	683.1	671.5	658.4	622.2
22.5°	688.5	691.5	697.7	696.9	697.7	691.5	688.5	677.7	667.7	658.4	643.8
25°	680.8	680.8	681.5	682.3	681.5	680.8	680.8	672.3	652.3	650.0	641.5
27.5°	664.6	666.1	670.7	670.0	670.7	666.1	664.6	661.5	639.9	637.6	631.5
30°	650.0	648.4	644.6	641.5	644.6	648.4	650.0	645.3	623.8	617.6	619.2
32.5°	625.3	621.5	617.6	615.3	617.6	621.5	625.3	623.8	607.6	599.1	600.7
35°	596.1	596.8	596.1	593.7	596.1	596.8	596.1	597.6	587.6	579.9	579.1
37.5°	575.3	576.8	576.0	573.0	576.0	576.8	575.3	573.7	559.9	557.6	559.1
40°	553.7	554.5	553.7	551.4	553.7	554.5	553.7	550.6	531.4	532.1	537.5
42.5°	532.9	532.1	529.8	528.3	529.8	532.1	532.9	528.3	503.7	501.3	511.4
45°	509.0	509.8	505.2	502.9	505.2	509.8	509.0	506.0	480.6	474.4	481.3
47.5°	485.2	485.2	481.3	479.0	481.3	485.2	485.2	481.3	454.4	448.2	452.1
50°	459.8	459.0	453.6	452.8	453.6	459.0	459.8	457.5	429.0	423.6	423.6
52.5°	430.5	430.5	431.3	432.8	431.3	430.5	430.5	431.3	405.9	400.5	398.9
55°	405.1	405.9	411.3	412.8	411.3	405.9	405.1	405.1	382.0	376.6	373.5
57.5°	378.9	378.9	382.8	382.8	382.8	378.9	378.9	377.4	355.0	350.4	348.9
60°	348.9	350.4	353.5	352.7	353.5	350.4	348.9	347.3	328.1	325.0	319.6
62.5°	317.3	318.9	319.6	318.1	319.6	318.9	317.3	312.7	301.1	298.8	291.9
65°	284.2	285.7	286.5	285.0	286.5	285.7	284.2	281.9	273.4	269.5	263.3
67.5°	250.2	249.5	248.7	251.8	248.7	249.5	250.2	247.2	241.8	238.7	230.2
70°	215.6	215.6	214.8	216.4	214.8	215.6	215.6	213.3	210.2	207.9	200.2
72.5°	178.6	177.9	181.0	178.6	181.0	177.9	178.6	177.9	176.3	174.0	166.3
75°	142.5	144.0	142.5	144.8	142.5	144.0	142.5	143.2	142.5	140.9	135.5
77.5°	108.6	110.1	108.6	108.6	108.6	110.1	108.6	109.3	109.3	109.3	104.7
80°	77.0	76.2	76.2	75.5	76.2	76.2	77.0	77.0	77.8	76.2	74.7
82.5°	49.3	48.5	48.5	50.1	48.5	48.5	49.3	50.1	48.5	48.5	48.5
85°	27.0	27.7	26.2	26.2	26.2	27.7	27.0	25.4	27.0	27.0	26.2
87.5°	10.0	9.2	9.2	9.2	9.2	9.2	10.0	10.8	10.8	10.8	11.6
90°	12.2	12.2	12.2	12.2	12.2	12.2	12.2	16.2	21.6	24.3	20.9
92.5°	60.8	58.4	48.7	39.0	48.7	58.4	60.8	86.2	120.1	137.1	120.4
95°	206.6	199.3	169.9	140.6	169.9	199.3	206.6	271.3	357.5	400.6	338.3
97.5°	476.9	462.9	407.1	351.4	407.1	462.9	476.9	517.7	572.3	599.5	495.7
100°	669.7	653.0	586.6	520.1	586.6	653.0	669.7	666.7	662.7	660.7	545.5
102.5°	834.3	820.0	763.1	706.2	763.1	820.0	834.3	782.2	712.8	678.1	561.2
105°	1026.5	1018.9	988.2	957.6	988.2	1018.9	1026.5	909.7	754.0	676.1	562.9
107.5°	1126.4	1128.3	1135.7	1143.1	1135.7	1128.3	1126.4	963.5	746.3	637.6	537.8
110°	1152.0	1160.0	1191.9	1223.8	1191.9	1160.0	1152.0	969.9	727.0	605.6	515.7



TEST NUMBER: P935122

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1135.7	1147.9	1196.9	1245.9	1196.9	1147.9	1135.7	949.3	700.8	576.5	496.3
115°	1080.3	1097.2	1165.2	1233.1	1165.2	1097.2	1080.3	900.7	661.4	541.6	474.1
117.5°	1003.8	1022.6	1097.9	1173.2	1097.9	1022.6	1003.8	841.7	625.6	517.6	460.2
120°	952.2	970.5	1043.7	1116.8	1043.7	970.5	952.2	804.1	606.7	508.0	455.5
122.5°	900.6	918.6	990.8	1063.0	990.8	918.6	900.6	767.2	589.4	500.6	453.0
125°	832.4	849.0	915.5	982.0	915.5	849.0	832.4	719.1	568.1	492.6	450.9
127.5°	777.6	791.6	847.8	903.8	847.8	791.6	777.6	680.4	550.7	485.9	449.8
130°	743.1	756.0	807.8	859.6	807.8	756.0	743.1	656.5	541.1	483.3	450.5
132.5°	713.6	725.2	771.5	818.0	771.5	725.2	713.6	636.0	532.7	481.0	450.9
135°	671.9	681.9	721.9	761.9	721.9	681.9	671.9	607.0	520.5	477.2	450.5
137.5°	641.2	649.3	682.1	714.9	682.1	649.3	641.2	586.3	513.1	476.6	453.3
140°	616.5	624.2	654.8	685.4	654.8	624.2	616.5	569.1	505.9	474.3	453.8
142.5°	599.2	605.8	632.2	658.5	632.2	605.8	599.2	557.6	502.0	474.3	455.4
145°	573.3	578.3	598.2	618.2	598.2	578.3	573.3	539.2	493.9	471.2	455.5
147.5°	551.6	555.7	572.2	588.7	572.2	555.7	551.6	524.8	489.0	471.2	458.5
150°	539.0	542.3	555.7	569.1	555.7	542.3	539.0	516.4	486.3	471.2	460.2
152.5°	529.1	531.6	541.7	551.9	541.7	531.6	529.1	509.7	484.0	471.2	461.2
155°	517.2	518.9	525.6	532.3	525.6	518.9	517.2	501.9	481.4	471.2	463.6
157.5°	507.0	508.1	512.9	517.6	512.9	508.1	507.0	495.0	479.1	471.2	465.9
160°	501.9	502.6	505.3	508.0	505.3	502.6	501.9	491.6	478.0	471.2	467.0
162.5°	497.0	497.7	500.3	502.8	500.3	497.7	497.0	488.4	476.9	471.2	468.2
165°	489.7	490.4	493.1	495.8	493.1	490.4	489.7	483.6	475.3	471.2	469.8
167.5°	486.5	486.8	487.9	489.0	487.9	486.8	486.5	482.4	477.0	474.3	473.2
170°	486.5	486.5	486.5	486.5	486.5	486.5	486.5	482.4	477.0	474.3	474.2
172.5°	483.9	483.7	482.7	481.7	482.7	483.7	483.9	480.7	476.5	474.3	474.3
175°	480.4	480.4	480.4	480.4	480.4	480.4	480.4	478.4	475.7	474.3	474.9
177.5°	479.8	479.5	478.4	477.2	478.4	479.5	479.8	478.2	476.0	474.9	475.5
180°	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P935122

CATALOG NUMBER: SQ4-FA-100U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	814.0	814.0	814.0	814.0	814.0
2.5°	804.0	807.8	810.1	813.2	820.9
5°	773.2	787.8	792.4	804.0	817.8
7.5°	705.4	750.1	762.4	790.1	811.7
10°	639.9	684.6	706.2	771.6	804.0
12.5°	606.8	633.0	647.6	739.3	793.2
15°	586.0	604.5	615.3	696.2	780.9
17.5°	569.9	583.0	590.7	653.8	763.9
20°	559.9	566.0	573.0	623.0	744.7
22.5°	552.9	549.1	554.5	601.4	718.5
25°	548.3	533.7	539.8	584.5	687.7
27.5°	552.2	519.8	522.1	569.1	655.3
30°	552.9	502.9	503.7	552.9	619.2
32.5°	547.5	485.2	485.9	532.9	578.3
35°	534.5	464.4	463.6	509.8	522.9
37.5°	516.7	442.1	442.1	484.4	462.1
40°	495.2	419.7	422.0	451.3	408.2
42.5°	469.0	395.9	398.9	407.4	368.1
45°	440.5	372.8	375.1	344.3	337.3
47.5°	408.9	348.9	349.7	285.7	327.3
50°	371.2	324.2	321.2	244.9	326.6
52.5°	338.1	297.3	288.1	221.8	296.5
55°	305.8	268.7	248.7	204.0	275.0
57.5°	277.3	231.8	212.5	183.3	270.3
60°	251.0	195.6	181.0	160.9	247.9
62.5°	229.5	168.6	165.6	145.5	224.8
65°	206.4	150.2	149.4	132.4	191.0
67.5°	184.0	137.8	137.1	120.1	145.5
70°	160.2	124.7	123.2	107.0	107.8
72.5°	135.5	110.1	108.6	96.2	89.3
75°	110.9	93.2	92.4	83.9	72.4
77.5°	87.0	73.9	75.5	67.8	53.1
80°	62.4	53.9	55.4	48.5	40.0
82.5°	41.6	35.4	37.0	30.8	27.0
85°	23.1	20.0	20.8	16.2	12.3
87.5°	10.8	9.2	9.2	6.2	3.8
90°	14.1	8.9	8.3	5.8	3.2
92.5°	86.9	61.8	56.4	34.6	12.8
95°	213.8	120.4	110.5	70.6	30.7
97.5°	288.1	132.3	123.5	88.3	53.1
100°	315.1	142.2	134.2	102.3	70.5
102.5°	327.5	152.2	144.7	115.0	85.2
105°	336.6	166.9	160.5	135.4	110.2
107.5°	338.3	188.6	182.8	159.3	135.8
110°	335.7	200.8	195.5	174.3	153.1



TEST NUMBER: P935122

CATALOG NUMBER: SQ4-FA-100U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	335.9	215.5	210.4	190.3	170.1
115°	339.0	237.6	232.9	214.3	195.7
117.5°	345.3	259.1	254.9	237.9	221.0
120°	350.4	271.6	267.6	251.6	235.7
122.5°	357.7	286.4	282.4	266.3	250.2
125°	367.7	305.2	301.5	286.9	272.3
127.5°	377.6	323.5	319.8	304.9	290.1
130°	384.8	335.6	331.6	315.7	299.8
132.5°	390.7	345.6	341.6	325.6	309.7
135°	397.2	357.1	353.5	339.0	324.5
137.5°	406.7	371.8	368.2	353.9	339.5
140°	412.6	381.8	378.5	365.2	352.0
142.5°	417.6	389.2	386.1	373.8	361.6
145°	424.0	400.3	397.6	387.0	376.3
147.5°	433.4	414.4	411.8	401.5	391.1
150°	438.3	421.8	419.4	410.0	400.6
152.5°	441.4	426.6	424.8	417.6	410.6
155°	448.5	437.2	435.9	430.6	425.3
157.5°	455.5	447.8	446.4	441.4	436.2
160°	458.8	452.5	451.5	447.6	443.6
162.5°	462.2	457.7	456.9	453.9	450.9
165°	467.1	465.0	464.3	461.6	458.9
167.5°	470.9	469.2	468.9	467.6	466.3
170°	474.1	474.0	473.7	472.4	471.2
172.5°	474.3	474.3	474.2	474.0	473.7
175°	476.2	477.2	477.2	477.2	477.2
177.5°	476.5	477.2	477.2	477.2	477.2
180°	477.2	477.2	477.2	477.2	477.2



TEST NUMBER: P935122
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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	10.88	11.66	11.91	12.70	14.10	13.68	14.46	14.71	15.50	16.90
	3H	11.35	12.05	12.39	13.10	14.52	15.01	15.71	16.05	16.76	18.18
	4H	11.54	12.20	12.59	13.25	14.68	15.44	16.10	16.50	17.16	18.58
	6H	11.65	12.26	12.72	13.32	14.76	15.71	16.32	16.78	17.38	18.82
	8H	11.65	12.23	12.72	13.31	14.74	15.78	16.36	16.85	17.43	18.87
	12H	11.62	12.17	12.70	13.24	14.70	15.81	16.37	16.89	17.43	18.89
4H	2H	11.90	12.56	12.96	13.61	15.04	14.08	14.74	15.14	15.80	17.22
	3H	12.91	13.47	13.98	14.55	15.99	15.57	16.12	16.64	17.20	18.64
	4H	13.19	13.69	14.26	14.76	16.23	16.08	16.59	17.16	17.66	19.12
	6H	13.31	13.74	14.39	14.84	16.29	16.44	16.87	17.52	17.97	19.42
	8H	13.31	13.72	14.40	14.80	16.27	16.54	16.94	17.62	18.03	19.50
	12H	13.28	13.64	14.38	14.74	16.22	16.58	16.95	17.69	18.05	19.53
8H	4H	13.63	14.04	14.71	15.12	16.59	16.20	16.61	17.29	17.70	19.17
	6H	13.89	14.22	14.99	15.35	16.82	16.63	16.96	17.74	18.09	19.56
	8H	13.93	14.22	15.04	15.33	16.82	16.77	17.07	17.89	18.18	19.67
	12H	13.91	14.17	15.03	15.27	16.80	16.86	17.12	17.98	18.23	19.75
12H	4H	13.63	14.00	14.73	15.10	16.57	16.16	16.53	17.27	17.63	19.11
	6H	13.95	14.24	15.06	15.35	16.84	16.62	16.92	17.74	18.03	19.52
	8H	14.01	14.27	15.13	15.37	16.90	16.78	17.04	17.90	18.14	19.67