

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: P935102

Luminaire Tested: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935102
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-B40-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

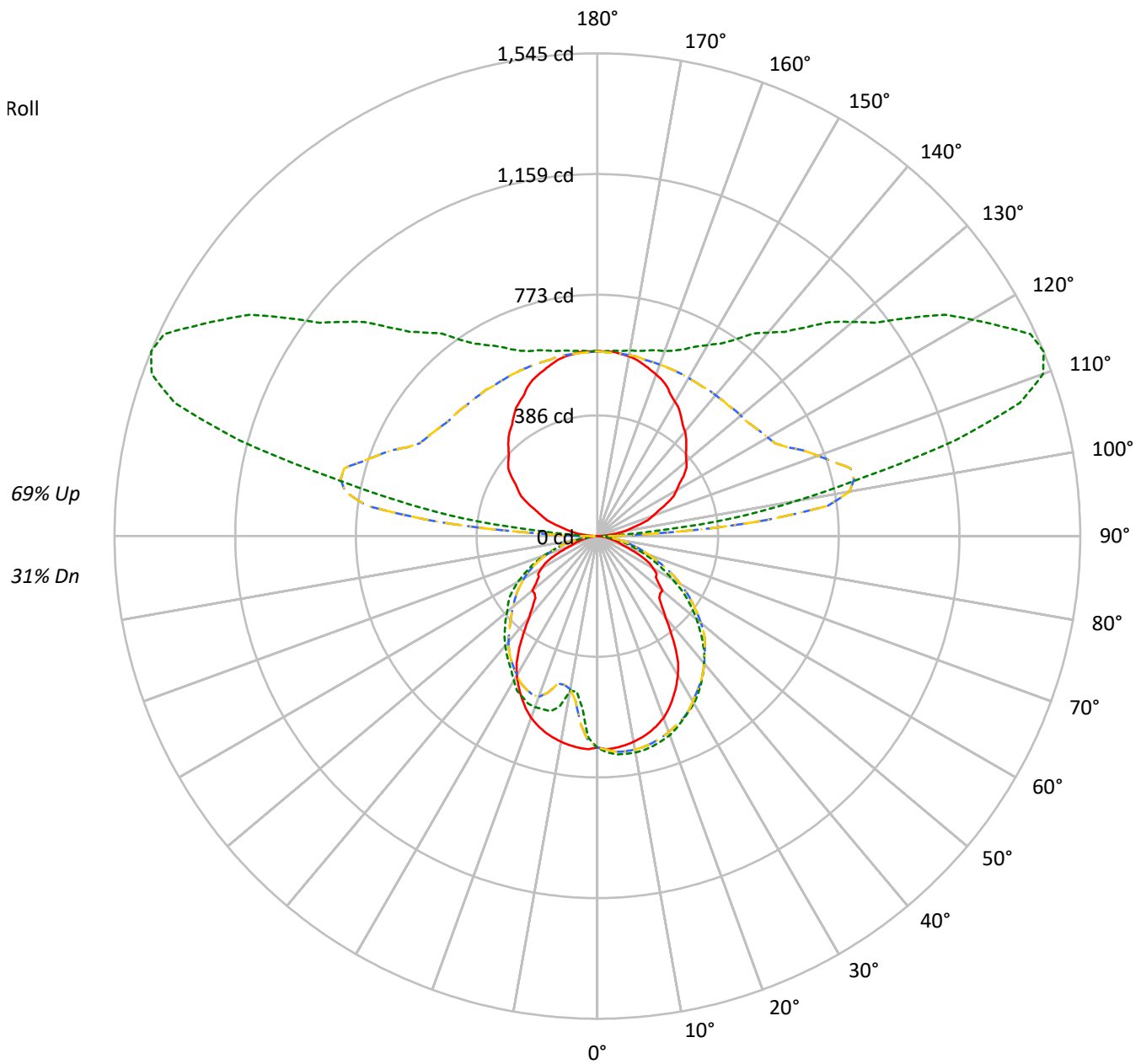
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5594.4 lumens
Efficiency: N/A
Efficacy: 135.8 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: 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: P935102
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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°	6282	6282	6282	6282
5°	6322	6342	6322	4986
10°	6273	6247	6273	4466
15°	6197	6112	6197	5103
20°	6060	5950	6060	5113
25°	5788	5717	5788	5005
30°	5439	5523	5439	4768
35°	4842	5277	4842	4506
40°	4027	4989	4027	4308
45°	3591	4650	3591	4081
50°	3807	4246	3807	3853
55°	3571	3811	3571	3721
60°	3670	3237	3670	3409
65°	3309	2676	3309	2990
70°	2277	2133	2277	2508
75°	1974	1577	1974	1888
80°	1558	1043	1558	1134
85°	845	552	845	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5515 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.1	1.1
10°-20°	173.5	3.1
20°-30°	268.2	4.8
30°-40°	320.2	5.7
40°-50°	322.1	5.8
50°-60°	280.2	5.0
60°-70°	198.7	3.6
70°-80°	105.1	1.9
80°-90°	28.4	0.5
90°-100°	288.5	5.2
100°-110°	758.5	13.6
110°-120°	786.5	14.1
120°-130°	630.8	11.3
130°-140°	495.0	8.8
140°-150°	379.9	6.8
150°-160°	273.6	4.9
160°-170°	167.4	3.0
170°-180°	56.6	1.0
0°-30°	502.8	9.0
0°-40°	823.0	14.7
0°-60°	1425.3	25.5
0°-90°	1757.6	31.4
90°-120°	1833.5	32.8
90°-150°	3339.2	59.7
90°-180°	3837.0	68.6
0°-180°	5594.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	677	677	677	677	677	
5°	680	701	680	551	680	65
15°	649	695	649	580	649	183
25°	572	648	572	568	572	263
35°	435	578	435	494	435	269
45°	280	476	280	418	280	225
55°	229	352	229	343	229	210
65°	159	212	159	237	159	152
75°	60	101	60	120	60	63
85°	10	26	10	22	10	14
90°	4	15	4	15	4	4
95°	38	174	38	174	38	42
105°	137	1188	137	1188	137	145
115°	243	1529	243	1529	243	240
125°	338	1218	338	1218	338	300
135°	402	945	402	945	402	311
145°	467	767	467	767	467	292
155°	528	660	528	660	528	242
165°	569	615	569	615	569	161
175°	592	596	592	596	592	56
180°	592	592	592	592	592	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
2.5°	682.7	682.7	686.5	687.9	687.9	686.0	684.1	686.0	691.7	693.6	692.9
5°	680.2	685.3	692.4	693.6	695.0	694.3	692.9	694.3	700.7	701.9	702.6
7.5°	675.1	684.6	693.6	695.5	697.4	695.5	695.0	696.2	702.6	703.8	703.8
10°	668.7	682.1	692.4	693.6	695.5	693.6	693.6	696.2	702.6	703.8	704.5
12.5°	659.7	678.2	687.9	689.1	691.7	691.0	690.5	692.9	699.4	700.7	700.7
15°	649.4	671.2	680.2	681.5	686.0	684.6	684.6	687.2	694.3	696.2	695.5
17.5°	635.4	662.3	672.5	674.4	677.7	677.0	677.7	680.2	686.5	687.9	688.6
20°	619.3	650.1	662.3	664.2	667.4	667.4	667.4	670.6	677.0	679.6	679.6
22.5°	597.5	637.3	650.1	651.4	655.2	655.2	656.5	661.0	666.7	667.4	667.4
25°	571.9	623.1	634.0	637.9	641.8	643.7	645.6	648.2	650.1	649.4	650.1
27.5°	545.0	605.3	619.3	621.9	627.1	629.0	631.5	632.1	632.8	634.7	633.5
30°	514.9	580.3	601.4	603.9	612.3	613.6	611.0	612.3	615.5	616.7	618.1
32.5°	481.0	543.1	582.8	588.6	596.3	592.5	591.8	593.7	598.9	598.9	600.1
35°	434.9	514.3	565.6	570.7	576.4	571.9	574.5	575.1	578.3	580.3	579.6
37.5°	384.3	489.3	547.6	551.4	555.9	550.2	554.0	555.9	558.5	557.2	557.2
40°	339.4	450.3	526.5	529.1	532.9	528.4	532.2	533.6	534.8	533.6	532.9
42.5°	306.2	407.3	504.0	507.3	504.7	507.9	509.2	511.8	509.8	507.3	507.3
45°	280.5	395.8	479.7	483.5	479.7	484.9	486.8	486.8	481.0	479.7	479.0
47.5°	272.2	372.7	455.3	455.3	453.4	459.8	463.1	458.6	452.9	450.9	450.9
50°	271.6	347.1	422.1	419.5	428.5	436.1	433.0	428.5	424.0	417.0	417.0
52.5°	246.6	315.7	379.1	388.8	402.8	407.3	402.2	397.8	390.0	386.9	384.3
55°	228.6	283.1	340.1	359.3	374.1	379.8	370.2	365.7	354.2	352.3	351.0
57.5°	224.8	235.7	304.3	328.5	346.5	345.9	340.1	331.8	322.1	320.2	319.6
60°	206.3	170.4	265.8	294.6	313.1	311.2	306.2	298.4	289.5	288.2	287.0
62.5°	187.0	123.6	222.2	254.9	281.2	280.5	276.1	264.5	258.1	254.9	252.3
65°	158.8	103.7	158.2	212.0	249.8	251.1	241.4	233.1	226.0	222.2	221.6
67.5°	121.1	84.5	107.0	176.8	219.6	218.4	206.3	202.4	193.4	191.5	187.7
70°	89.7	56.3	74.3	143.4	190.2	187.0	177.4	173.0	164.6	160.2	157.6
72.5°	74.3	45.5	54.4	111.4	160.2	156.2	147.9	142.9	135.8	132.0	129.4
75°	60.2	48.0	41.6	82.6	130.0	127.5	119.8	114.6	108.9	103.7	104.4
77.5°	44.2	44.8	33.3	60.8	103.1	99.3	94.8	88.4	85.9	80.7	80.7
80°	33.3	35.2	25.0	41.6	74.3	74.3	70.5	66.0	61.5	58.9	58.9
82.5°	22.4	22.4	18.5	26.3	50.6	48.7	46.1	44.8	42.3	41.0	41.0
85°	10.2	12.8	11.6	16.0	27.5	28.8	28.8	27.5	26.9	25.6	26.3
87.5°	3.2	5.7	7.1	9.0	14.1	14.7	15.4	15.4	15.4	16.0	16.0
90°	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.8	20.2	15.1	15.1
92.5°	15.9	42.9	69.9	76.7	107.8	149.3	170.0	149.0	107.0	75.4	72.5
95°	38.1	87.6	137.0	149.4	265.2	419.6	496.9	443.4	336.4	256.2	247.2
97.5°	65.9	109.5	153.2	164.1	357.3	614.8	743.6	709.8	642.1	591.4	574.1
100°	87.4	126.9	166.5	176.4	390.8	676.6	819.5	822.0	826.8	830.6	809.9
102.5°	105.6	142.6	179.4	188.7	406.2	696.0	841.0	884.0	970.2	1034.7	1017.1
105°	136.7	167.9	199.1	206.9	417.5	698.2	838.6	935.1	1128.2	1273.1	1263.7
107.5°	168.5	197.6	226.7	234.0	419.6	667.1	790.8	925.6	1195.0	1397.1	1399.4
110°	189.9	216.2	242.5	249.1	416.4	639.6	751.1	901.7	1202.9	1428.8	1438.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	211.0	236.0	261.0	267.3	416.6	615.5	715.0	869.1	1177.3	1408.5	1423.7
115°	242.7	265.8	288.9	294.7	420.4	588.0	671.7	820.2	1117.2	1339.9	1360.9
117.5°	274.1	295.1	316.1	321.4	428.2	570.7	642.0	775.9	1043.9	1244.9	1268.2
120°	292.3	312.1	331.9	336.8	434.5	564.9	630.0	752.4	997.3	1181.0	1203.7
122.5°	310.3	330.2	350.2	355.2	443.7	561.8	620.8	731.1	951.6	1117.0	1139.3
125°	337.7	355.8	374.0	378.6	456.0	559.2	610.9	704.6	891.9	1032.4	1053.0
127.5°	359.8	378.2	396.6	401.2	468.3	557.8	602.6	683.0	843.8	964.5	981.8
130°	371.8	391.6	411.3	416.3	477.3	558.8	599.5	671.1	814.2	921.6	937.6
132.5°	384.1	403.9	423.6	428.6	484.6	559.2	596.6	660.7	788.8	885.0	899.4
135°	402.4	420.4	438.4	442.9	492.6	558.8	591.9	645.6	752.8	833.3	845.7
137.5°	421.1	438.9	456.7	461.2	504.4	562.2	591.0	636.4	727.1	795.2	805.4
140°	436.5	453.0	469.4	473.5	511.8	562.8	588.3	627.4	705.8	764.7	774.1
142.5°	448.5	463.7	478.8	482.7	517.9	564.8	588.3	622.7	691.5	743.2	751.4
145°	466.7	480.0	493.2	496.5	525.8	564.9	584.4	612.5	668.8	711.0	717.2
147.5°	485.0	497.9	510.7	514.0	537.5	568.7	584.4	606.5	650.8	684.1	689.2
150°	496.9	508.5	520.2	523.1	543.6	570.8	584.4	603.1	640.4	668.5	672.6
152.5°	509.2	518.0	526.9	529.1	547.5	572.0	584.4	600.3	632.2	656.2	659.3
155°	527.5	534.0	540.6	542.2	556.3	575.0	584.4	597.1	622.5	641.5	643.6
157.5°	541.0	547.4	553.7	555.3	565.0	577.9	584.4	594.2	614.0	628.8	630.2
160°	550.2	555.1	560.0	561.3	569.0	579.2	584.4	592.9	609.8	622.5	623.3
162.5°	559.2	563.0	566.7	567.7	573.2	580.6	584.4	591.5	605.8	616.5	617.2
165°	569.2	572.5	575.9	576.7	579.3	582.6	584.4	589.5	599.7	607.4	608.2
167.5°	578.3	580.0	581.6	582.0	584.1	586.8	588.3	591.6	598.3	603.4	603.8
170°	584.4	585.9	587.5	587.9	588.0	588.2	588.3	591.6	598.3	603.4	603.4
172.5°	587.5	587.9	588.2	588.3	588.3	588.3	588.3	591.0	596.2	600.2	599.9
175°	591.9	591.9	591.9	591.9	590.7	589.0	588.3	590.0	593.3	595.8	595.8
177.5°	591.9	591.9	591.9	591.9	591.0	589.7	589.0	590.4	593.1	595.1	594.7
180°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
2.5°	694.3	692.4	694.3	692.9	693.6	691.7	686.0	684.1	686.0	687.9	687.9
5°	702.6	701.4	702.6	702.6	701.9	700.7	694.3	692.9	694.3	695.0	693.6
7.5°	705.2	703.3	705.2	703.8	703.8	702.6	696.2	695.0	695.5	697.4	695.5
10°	705.2	703.3	705.2	704.5	703.8	702.6	696.2	693.6	693.6	695.5	693.6
12.5°	701.9	700.7	701.9	700.7	700.7	699.4	692.9	690.5	691.0	691.7	689.1
15°	696.9	695.0	696.9	695.5	696.2	694.3	687.2	684.6	684.6	686.0	681.5
17.5°	689.1	686.5	689.1	688.6	687.9	686.5	680.2	677.7	677.0	677.7	674.4
20°	680.2	678.2	680.2	679.6	679.6	677.0	670.6	667.4	667.4	667.4	664.2
22.5°	666.1	664.2	666.1	667.4	667.4	666.7	661.0	656.5	655.2	655.2	651.4
25°	650.1	648.2	650.1	650.1	649.4	650.1	648.2	645.6	643.7	641.8	637.9
27.5°	634.7	633.5	634.7	633.5	634.7	632.8	632.1	631.5	629.0	627.1	621.9
30°	619.3	618.1	619.3	618.1	616.7	615.5	612.3	611.0	613.6	612.3	603.9
32.5°	600.1	598.9	600.1	600.1	598.9	598.9	593.7	591.8	592.5	596.3	588.6
35°	580.3	578.3	580.3	579.6	580.3	578.3	575.1	574.5	571.9	576.4	570.7
37.5°	557.2	555.3	557.2	557.2	557.2	558.5	555.9	554.0	550.2	555.9	551.4
40°	533.6	531.0	533.6	532.9	533.6	534.8	533.6	532.2	528.4	532.9	529.1
42.5°	506.6	506.0	506.6	507.3	507.3	509.8	511.8	509.2	507.9	504.7	507.3
45°	477.8	476.5	477.8	479.0	479.7	481.0	486.8	486.8	484.9	479.7	483.5
47.5°	447.0	443.9	447.0	450.9	450.9	452.9	458.6	463.1	459.8	453.4	455.3
50°	414.4	415.0	414.4	417.0	417.0	424.0	428.5	433.0	436.1	428.5	419.5
52.5°	382.4	381.7	382.4	384.3	386.9	390.0	397.8	402.2	407.3	402.8	388.8
55°	350.3	351.6	350.3	351.0	352.3	354.2	365.7	370.2	379.8	374.1	359.3
57.5°	318.3	316.4	318.3	319.6	320.2	322.1	331.8	340.1	345.9	346.5	328.5
60°	281.2	278.6	281.2	287.0	288.2	289.5	298.4	306.2	311.2	313.1	294.6
62.5°	248.5	244.0	248.5	252.3	254.9	258.1	264.5	276.1	280.5	281.2	254.9
65°	213.9	212.0	213.9	221.6	222.2	226.0	233.1	241.4	251.1	249.8	212.0
67.5°	182.5	182.5	182.5	187.7	191.5	193.4	202.4	206.3	218.4	219.6	176.8
70°	153.8	153.1	153.8	157.6	160.2	164.6	173.0	177.4	187.0	190.2	143.4
72.5°	126.2	125.5	126.2	129.4	132.0	135.8	142.9	147.9	156.2	160.2	111.4
75°	101.8	100.6	101.8	104.4	103.7	108.9	114.6	119.8	127.5	130.0	82.6
77.5°	78.1	78.1	78.1	80.7	80.7	85.9	88.4	94.8	99.3	103.1	60.8
80°	58.3	57.7	58.3	58.9	58.9	61.5	66.0	70.5	74.3	74.3	41.6
82.5°	41.0	39.7	41.0	41.0	41.0	42.3	44.8	46.1	48.7	50.6	26.3
85°	25.6	25.6	25.6	26.3	25.6	26.9	27.5	28.8	28.8	27.5	16.0
87.5°	16.6	16.0	16.6	16.0	16.0	15.4	15.4	15.4	14.7	14.1	9.0
90°	15.1	15.1	15.1	15.1	15.1	20.2	26.8	30.2	26.0	17.5	11.1
92.5°	60.5	48.4	60.5	72.5	75.4	107.0	149.0	170.0	149.3	107.8	76.7
95°	210.8	174.4	210.8	247.2	256.2	336.4	443.4	496.9	419.6	265.2	149.4
97.5°	504.9	435.8	504.9	574.1	591.4	642.1	709.8	743.6	614.8	357.3	164.1
100°	727.5	645.1	727.5	809.9	830.6	826.8	822.0	819.5	676.6	390.8	176.4
102.5°	946.5	875.9	946.5	1017.1	1034.7	970.2	884.0	841.0	696.0	406.2	188.7
105°	1225.6	1187.7	1225.6	1263.7	1273.1	1128.2	935.1	838.6	698.2	417.5	206.9
107.5°	1408.5	1417.7	1408.5	1399.4	1397.1	1195.0	925.6	790.8	667.1	419.6	234.0
110°	1478.2	1517.8	1478.2	1438.7	1428.8	1202.9	901.7	751.1	639.6	416.4	249.1



TEST NUMBER: P935102

CATALOG NUMBER: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1484.5	1545.2	1484.5	1423.7	1408.5	1177.3	869.1	715.0	615.5	416.6	267.3
115°	1445.1	1529.3	1445.1	1360.9	1339.9	1117.2	820.2	671.7	588.0	420.4	294.7
117.5°	1361.6	1455.0	1361.6	1268.2	1244.9	1043.9	775.9	642.0	570.7	428.2	321.4
120°	1294.4	1385.1	1294.4	1203.7	1181.0	997.3	752.4	630.0	564.9	434.5	336.8
122.5°	1228.9	1318.4	1228.9	1139.3	1117.0	951.6	731.1	620.8	561.8	443.7	355.2
125°	1135.4	1217.9	1135.4	1053.0	1032.4	891.9	704.6	610.9	559.2	456.0	378.6
127.5°	1051.5	1121.0	1051.5	981.8	964.5	843.8	683.0	602.6	557.8	468.3	401.2
130°	1001.9	1066.2	1001.9	937.6	921.6	814.2	671.1	599.5	558.8	477.3	416.3
132.5°	956.9	1014.5	956.9	899.4	885.0	788.8	660.7	596.6	559.2	484.6	428.6
135°	895.3	945.0	895.3	845.7	833.3	752.8	645.6	591.9	558.8	492.6	442.9
137.5°	846.0	886.6	846.0	805.4	795.2	727.1	636.4	591.0	562.2	504.4	461.2
140°	812.1	850.0	812.1	774.1	764.7	705.8	627.4	588.3	562.8	511.8	473.5
142.5°	784.1	816.7	784.1	751.4	743.2	691.5	622.7	588.3	564.8	517.9	482.7
145°	741.9	766.7	741.9	717.2	711.0	668.8	612.5	584.4	564.9	525.8	496.5
147.5°	709.7	730.1	709.7	689.2	684.1	650.8	606.5	584.4	568.7	537.5	514.0
150°	689.2	705.8	689.2	672.6	668.5	640.4	603.1	584.4	570.8	543.6	523.1
152.5°	671.8	684.4	671.8	659.3	656.2	632.2	600.3	584.4	572.0	547.5	529.1
155°	651.9	660.2	651.9	643.6	641.5	622.5	597.1	584.4	575.0	556.3	542.2
157.5°	636.1	642.0	636.1	630.2	628.8	614.0	594.2	584.4	577.9	565.0	555.3
160°	626.7	630.0	626.7	623.3	622.5	609.8	592.9	584.4	579.2	569.0	561.3
162.5°	620.5	623.6	620.5	617.2	616.5	605.8	591.5	584.4	580.6	573.2	567.7
165°	611.6	614.9	611.6	608.2	607.4	599.7	589.5	584.4	582.6	579.3	576.7
167.5°	605.1	606.5	605.1	603.8	603.4	598.3	591.6	588.3	586.8	584.1	582.0
170°	603.4	603.4	603.4	603.4	603.4	598.3	591.6	588.3	588.2	588.0	587.9
172.5°	598.7	597.4	598.7	599.9	600.2	596.2	591.0	588.3	588.3	588.3	588.3
175°	595.8	595.8	595.8	595.8	595.8	593.3	590.0	588.3	589.0	590.7	591.9
177.5°	593.3	591.9	593.3	594.7	595.1	593.1	590.4	589.0	589.7	591.0	591.9
180°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9



TEST NUMBER: P935102
 CATALOG NUMBER: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
2.5°	686.5	682.7	682.7	676.3	673.8	671.8	668.7	659.0	656.5	653.9	657.8
5°	692.4	685.3	680.2	668.7	659.0	655.2	643.0	620.0	604.6	593.1	586.7
7.5°	693.6	684.6	675.1	657.1	634.0	623.8	586.7	544.4	532.9	522.7	516.2
10°	692.4	682.1	668.7	641.8	587.3	569.4	532.2	504.7	497.7	495.7	497.7
12.5°	687.9	678.2	659.7	614.8	538.6	526.5	504.7	488.7	487.4	490.6	507.9
15°	680.2	671.2	649.4	579.0	511.8	502.8	487.4	481.6	488.7	511.1	563.0
17.5°	672.5	662.3	635.4	543.8	491.3	484.9	474.0	485.5	525.2	555.3	572.6
20°	662.3	650.1	619.3	518.2	476.5	470.7	465.7	517.5	547.6	558.5	568.1
22.5°	650.1	637.3	597.5	500.2	461.2	456.7	459.8	535.5	547.6	555.3	563.6
25°	634.0	623.1	571.9	486.1	448.9	443.9	456.0	533.6	540.5	542.4	559.2
27.5°	619.3	605.3	545.0	473.3	434.2	432.3	459.3	525.2	530.3	532.2	550.2
30°	601.4	580.3	514.9	459.8	418.9	418.2	459.8	514.9	513.7	518.8	536.7
32.5°	582.8	543.1	481.0	443.2	404.2	403.5	455.3	499.6	498.3	505.3	518.8
35°	565.6	514.3	434.9	424.0	385.5	386.2	444.5	481.6	482.3	488.7	497.0
37.5°	547.6	489.3	384.3	402.8	367.7	367.7	429.8	465.0	463.7	465.7	477.1
40°	526.5	450.3	339.4	375.3	351.0	349.1	411.8	447.0	442.5	442.0	457.9
42.5°	504.0	407.3	306.2	338.8	331.8	329.2	390.0	425.3	417.0	418.9	439.4
45°	479.7	395.8	280.5	286.3	311.9	310.0	366.3	400.3	394.5	399.7	420.8
47.5°	455.3	372.7	272.2	237.6	290.8	290.1	340.1	376.0	372.7	377.9	400.3
50°	422.1	347.1	271.6	203.7	267.1	269.6	308.8	352.3	352.3	356.8	380.5
52.5°	379.1	315.7	246.6	184.4	239.5	247.2	281.2	331.8	333.0	337.5	358.7
55°	340.1	283.1	228.6	169.7	206.9	223.6	254.2	310.7	313.1	317.6	336.9
57.5°	304.3	235.7	224.8	152.4	176.8	192.8	230.5	290.1	291.4	295.3	313.8
60°	265.8	170.4	206.3	133.9	150.5	162.6	208.8	265.8	270.3	272.8	288.9
62.5°	222.2	123.6	187.0	121.1	137.7	140.3	190.9	242.8	248.5	250.4	260.0
65°	158.2	103.7	158.8	110.2	124.2	124.9	171.6	219.1	224.1	227.4	234.5
67.5°	107.0	84.5	121.1	99.9	114.0	114.6	153.1	191.5	198.5	201.1	205.6
70°	74.3	56.3	89.7	89.0	102.5	103.7	133.2	166.6	173.0	174.9	177.4
72.5°	54.4	45.5	74.3	80.0	90.3	91.6	112.7	138.4	144.8	146.7	147.9
75°	41.6	48.0	60.2	69.8	76.9	77.5	92.3	112.7	117.2	118.5	119.1
77.5°	33.3	44.8	44.2	56.3	62.7	61.5	72.4	87.1	90.9	90.9	90.9
80°	25.0	35.2	33.3	40.4	46.1	44.8	51.9	62.2	63.4	64.7	64.1
82.5°	18.5	22.4	22.4	25.6	30.8	29.5	34.6	40.4	40.4	40.4	41.6
85°	11.6	12.8	10.2	13.5	17.3	16.6	19.2	21.8	22.4	22.4	21.1
87.5°	7.1	5.7	3.2	5.2	7.6	7.6	9.0	9.6	9.0	9.0	9.0
90°	10.3	7.2	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.8	20.2
92.5°	69.9	42.9	15.9	42.9	69.9	76.7	107.8	149.3	170.0	149.0	107.0
95°	137.0	87.6	38.1	87.6	137.0	149.4	265.2	419.6	496.9	443.4	336.4
97.5°	153.2	109.5	65.9	109.5	153.2	164.1	357.3	614.8	743.6	709.8	642.1
100°	166.5	126.9	87.4	126.9	166.5	176.4	390.8	676.6	819.5	822.0	826.8
102.5°	179.4	142.6	105.6	142.6	179.4	188.7	406.2	696.0	841.0	884.0	970.2
105°	199.1	167.9	136.7	167.9	199.1	206.9	417.5	698.2	838.6	935.1	1128.2
107.5°	226.7	197.6	168.5	197.6	226.7	234.0	419.6	667.1	790.8	925.6	1195.0
110°	242.5	216.2	189.9	216.2	242.5	249.1	416.4	639.6	751.1	901.7	1202.9



TEST NUMBER: P935102

CATALOG NUMBER: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	261.0	236.0	211.0	236.0	261.0	267.3	416.6	615.5	715.0	869.1	1177.3
115°	288.9	265.8	242.7	265.8	288.9	294.7	420.4	588.0	671.7	820.2	1117.2
117.5°	316.1	295.1	274.1	295.1	316.1	321.4	428.2	570.7	642.0	775.9	1043.9
120°	331.9	312.1	292.3	312.1	331.9	336.8	434.5	564.9	630.0	752.4	997.3
122.5°	350.2	330.2	310.3	330.2	350.2	355.2	443.7	561.8	620.8	731.1	951.6
125°	374.0	355.8	337.7	355.8	374.0	378.6	456.0	559.2	610.9	704.6	891.9
127.5°	396.6	378.2	359.8	378.2	396.6	401.2	468.3	557.8	602.6	683.0	843.8
130°	411.3	391.6	371.8	391.6	411.3	416.3	477.3	558.8	599.5	671.1	814.2
132.5°	423.6	403.9	384.1	403.9	423.6	428.6	484.6	559.2	596.6	660.7	788.8
135°	438.4	420.4	402.4	420.4	438.4	442.9	492.6	558.8	591.9	645.6	752.8
137.5°	456.7	438.9	421.1	438.9	456.7	461.2	504.4	562.2	591.0	636.4	727.1
140°	469.4	453.0	436.5	453.0	469.4	473.5	511.8	562.8	588.3	627.4	705.8
142.5°	478.8	463.7	448.5	463.7	478.8	482.7	517.9	564.8	588.3	622.7	691.5
145°	493.2	480.0	466.7	480.0	493.2	496.5	525.8	564.9	584.4	612.5	668.8
147.5°	510.7	497.9	485.0	497.9	510.7	514.0	537.5	568.7	584.4	606.5	650.8
150°	520.2	508.5	496.9	508.5	520.2	523.1	543.6	570.8	584.4	603.1	640.4
152.5°	526.9	518.0	509.2	518.0	526.9	529.1	547.5	572.0	584.4	600.3	632.2
155°	540.6	534.0	527.5	534.0	540.6	542.2	556.3	575.0	584.4	597.1	622.5
157.5°	553.7	547.4	541.0	547.4	553.7	555.3	565.0	577.9	584.4	594.2	614.0
160°	560.0	555.1	550.2	555.1	560.0	561.3	569.0	579.2	584.4	592.9	609.8
162.5°	566.7	563.0	559.2	563.0	566.7	567.7	573.2	580.6	584.4	591.5	605.8
165°	575.9	572.5	569.2	572.5	575.9	576.7	579.3	582.6	584.4	589.5	599.7
167.5°	581.6	580.0	578.3	580.0	581.6	582.0	584.1	586.8	588.3	591.6	598.3
170°	587.5	585.9	584.4	585.9	587.5	587.9	588.0	588.2	588.3	591.6	598.3
172.5°	588.2	587.9	587.5	587.9	588.2	588.3	588.3	588.3	588.3	591.0	596.2
175°	591.9	591.9	591.9	591.9	591.9	591.9	590.7	589.0	588.3	590.0	593.3
177.5°	591.9	591.9	591.9	591.9	591.9	591.9	591.0	589.7	589.0	590.4	593.1
180°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9



TEST NUMBER: P935102

CATALOG NUMBER: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0	677.0
2.5°	653.3	651.4	653.9	646.9	653.9	651.4	653.3	657.8	653.9	656.5	659.0
5°	573.2	570.0	559.8	551.4	559.8	570.0	573.2	586.7	593.1	604.6	620.0
7.5°	512.4	509.8	507.3	502.1	507.3	509.8	512.4	516.2	522.7	532.9	544.4
10°	498.9	499.6	503.4	502.8	503.4	499.6	498.9	497.7	495.7	497.7	504.7
12.5°	533.6	539.3	560.4	559.2	560.4	539.3	533.6	507.9	490.6	487.4	488.7
15°	573.2	575.1	579.6	580.3	579.6	575.1	573.2	563.0	511.1	488.7	481.6
17.5°	577.1	577.7	580.9	580.9	580.9	577.7	577.1	572.6	555.3	525.2	485.5
20°	573.9	575.1	581.6	582.8	581.6	575.1	573.9	568.1	558.5	547.6	517.5
22.5°	572.6	575.1	580.3	579.6	580.3	575.1	572.6	563.6	555.3	547.6	535.5
25°	566.2	566.2	566.8	567.5	566.8	566.2	566.2	559.2	542.4	540.5	533.6
27.5°	552.8	554.0	557.8	557.2	557.8	554.0	552.8	550.2	532.2	530.3	525.2
30°	540.5	539.3	536.0	533.6	536.0	539.3	540.5	536.7	518.8	513.7	514.9
32.5°	520.1	516.8	513.7	511.8	513.7	516.8	520.1	518.8	505.3	498.3	499.6
35°	495.7	496.4	495.7	493.8	495.7	496.4	495.7	497.0	488.7	482.3	481.6
37.5°	478.5	479.7	479.0	476.5	479.0	479.7	478.5	477.1	465.7	463.7	465.0
40°	460.5	461.2	460.5	458.6	460.5	461.2	460.5	457.9	442.0	442.5	447.0
42.5°	443.2	442.5	440.6	439.4	440.6	442.5	443.2	439.4	418.9	417.0	425.3
45°	423.4	424.0	420.1	418.2	420.1	424.0	423.4	420.8	399.7	394.5	400.3
47.5°	403.5	403.5	400.3	398.3	400.3	403.5	403.5	400.3	377.9	372.7	376.0
50°	382.4	381.7	377.2	376.6	377.2	381.7	382.4	380.5	356.8	352.3	352.3
52.5°	358.0	358.0	358.7	359.9	358.7	358.0	358.0	358.7	337.5	333.0	331.8
55°	336.9	337.5	342.0	343.3	342.0	337.5	336.9	336.9	317.6	313.1	310.7
57.5°	315.2	315.2	318.3	318.3	318.3	315.2	315.2	313.8	295.3	291.4	290.1
60°	290.1	291.4	293.9	293.4	293.9	291.4	290.1	288.9	272.8	270.3	265.8
62.5°	263.9	265.2	265.8	264.5	265.8	265.2	263.9	260.0	250.4	248.5	242.8
65°	236.4	237.6	238.3	236.9	238.3	237.6	236.4	234.5	227.4	224.1	219.1
67.5°	208.2	207.5	206.9	209.4	206.9	207.5	208.2	205.6	201.1	198.5	191.5
70°	179.3	179.3	178.7	180.0	178.7	179.3	179.3	177.4	174.9	173.0	166.6
72.5°	148.6	147.9	150.5	148.6	150.5	147.9	148.6	147.9	146.7	144.8	138.4
75°	118.5	119.8	118.5	120.4	118.5	119.8	118.5	119.1	118.5	117.2	112.7
77.5°	90.3	91.6	90.3	90.3	90.3	91.6	90.3	90.9	90.9	90.9	87.1
80°	64.1	63.4	63.4	62.7	63.4	63.4	64.1	64.1	64.7	63.4	62.2
82.5°	41.0	40.4	40.4	41.6	40.4	40.4	41.0	41.6	40.4	40.4	40.4
85°	22.4	23.0	21.8	21.8	21.8	23.0	22.4	21.1	22.4	22.4	21.8
87.5°	8.3	7.6	7.6	7.6	7.6	7.6	8.3	9.0	9.0	9.0	9.6
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.2	26.8	30.2	26.0
92.5°	75.4	72.5	60.5	48.4	60.5	72.5	75.4	107.0	149.0	170.0	149.3
95°	256.2	247.2	210.8	174.4	210.8	247.2	256.2	336.4	443.4	496.9	419.6
97.5°	591.4	574.1	504.9	435.8	504.9	574.1	591.4	642.1	709.8	743.6	614.8
100°	830.6	809.9	727.5	645.1	727.5	809.9	830.6	826.8	822.0	819.5	676.6
102.5°	1034.7	1017.1	946.5	875.9	946.5	1017.1	1034.7	970.2	884.0	841.0	696.0
105°	1273.1	1263.7	1225.6	1187.7	1225.6	1263.7	1273.1	1128.2	935.1	838.6	698.2
107.5°	1397.1	1399.4	1408.5	1417.7	1408.5	1399.4	1397.1	1195.0	925.6	790.8	667.1
110°	1428.8	1438.7	1478.2	1517.8	1478.2	1438.7	1428.8	1202.9	901.7	751.1	639.6



TEST NUMBER: P935102

CATALOG NUMBER: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1408.5	1423.7	1484.5	1545.2	1484.5	1423.7	1408.5	1177.3	869.1	715.0	615.5
115°	1339.9	1360.9	1445.1	1529.3	1445.1	1360.9	1339.9	1117.2	820.2	671.7	588.0
117.5°	1244.9	1268.2	1361.6	1455.0	1361.6	1268.2	1244.9	1043.9	775.9	642.0	570.7
120°	1181.0	1203.7	1294.4	1385.1	1294.4	1203.7	1181.0	997.3	752.4	630.0	564.9
122.5°	1117.0	1139.3	1228.9	1318.4	1228.9	1139.3	1117.0	951.6	731.1	620.8	561.8
125°	1032.4	1053.0	1135.4	1217.9	1135.4	1053.0	1032.4	891.9	704.6	610.9	559.2
127.5°	964.5	981.8	1051.5	1121.0	1051.5	981.8	964.5	843.8	683.0	602.6	557.8
130°	921.6	937.6	1001.9	1066.2	1001.9	937.6	921.6	814.2	671.1	599.5	558.8
132.5°	885.0	899.4	956.9	1014.5	956.9	899.4	885.0	788.8	660.7	596.6	559.2
135°	833.3	845.7	895.3	945.0	895.3	845.7	833.3	752.8	645.6	591.9	558.8
137.5°	795.2	805.4	846.0	886.6	846.0	805.4	795.2	727.1	636.4	591.0	562.2
140°	764.7	774.1	812.1	850.0	812.1	774.1	764.7	705.8	627.4	588.3	562.8
142.5°	743.2	751.4	784.1	816.7	784.1	751.4	743.2	691.5	622.7	588.3	564.8
145°	711.0	717.2	741.9	766.7	741.9	717.2	711.0	668.8	612.5	584.4	564.9
147.5°	684.1	689.2	709.7	730.1	709.7	689.2	684.1	650.8	606.5	584.4	568.7
150°	668.5	672.6	689.2	705.8	689.2	672.6	668.5	640.4	603.1	584.4	570.8
152.5°	656.2	659.3	671.8	684.4	671.8	659.3	656.2	632.2	600.3	584.4	572.0
155°	641.5	643.6	651.9	660.2	651.9	643.6	641.5	622.5	597.1	584.4	575.0
157.5°	628.8	630.2	636.1	642.0	636.1	630.2	628.8	614.0	594.2	584.4	577.9
160°	622.5	623.3	626.7	630.0	626.7	623.3	622.5	609.8	592.9	584.4	579.2
162.5°	616.5	617.2	620.5	623.6	620.5	617.2	616.5	605.8	591.5	584.4	580.6
165°	607.4	608.2	611.6	614.9	611.6	608.2	607.4	599.7	589.5	584.4	582.6
167.5°	603.4	603.8	605.1	606.5	605.1	603.8	603.4	598.3	591.6	588.3	586.8
170°	603.4	603.4	603.4	603.4	603.4	603.4	603.4	598.3	591.6	588.3	588.2
172.5°	600.2	599.9	598.7	597.4	598.7	599.9	600.2	596.2	591.0	588.3	588.3
175°	595.8	595.8	595.8	595.8	595.8	595.8	595.8	593.3	590.0	588.3	589.0
177.5°	595.1	594.7	593.3	591.9	593.3	594.7	595.1	593.1	590.4	589.0	589.7
180°	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9	591.9



TEST NUMBER: P935102

CATALOG NUMBER: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	677.0	677.0	677.0	677.0	677.0
2.5°	668.7	671.8	673.8	676.3	682.7
5°	643.0	655.2	659.0	668.7	680.2
7.5°	586.7	623.8	634.0	657.1	675.1
10°	532.2	569.4	587.3	641.8	668.7
12.5°	504.7	526.5	538.6	614.8	659.7
15°	487.4	502.8	511.8	579.0	649.4
17.5°	474.0	484.9	491.3	543.8	635.4
20°	465.7	470.7	476.5	518.2	619.3
22.5°	459.8	456.7	461.2	500.2	597.5
25°	456.0	443.9	448.9	486.1	571.9
27.5°	459.3	432.3	434.2	473.3	545.0
30°	459.8	418.2	418.9	459.8	514.9
32.5°	455.3	403.5	404.2	443.2	481.0
35°	444.5	386.2	385.5	424.0	434.9
37.5°	429.8	367.7	367.7	402.8	384.3
40°	411.8	349.1	351.0	375.3	339.4
42.5°	390.0	329.2	331.8	338.8	306.2
45°	366.3	310.0	311.9	286.3	280.5
47.5°	340.1	290.1	290.8	237.6	272.2
50°	308.8	269.6	267.1	203.7	271.6
52.5°	281.2	247.2	239.5	184.4	246.6
55°	254.2	223.6	206.9	169.7	228.6
57.5°	230.5	192.8	176.8	152.4	224.8
60°	208.8	162.6	150.5	133.9	206.3
62.5°	190.9	140.3	137.7	121.1	187.0
65°	171.6	124.9	124.2	110.2	158.8
67.5°	153.1	114.6	114.0	99.9	121.1
70°	133.2	103.7	102.5	89.0	89.7
72.5°	112.7	91.6	90.3	80.0	74.3
75°	92.3	77.5	76.9	69.8	60.2
77.5°	72.4	61.5	62.7	56.3	44.2
80°	51.9	44.8	46.1	40.4	33.3
82.5°	34.6	29.5	30.8	25.6	22.4
85°	19.2	16.6	17.3	13.5	10.2
87.5°	9.0	7.6	7.6	5.2	3.2
90°	17.5	11.1	10.3	7.2	4.0
92.5°	107.8	76.7	69.9	42.9	15.9
95°	265.2	149.4	137.0	87.6	38.1
97.5°	357.3	164.1	153.2	109.5	65.9
100°	390.8	176.4	166.5	126.9	87.4
102.5°	406.2	188.7	179.4	142.6	105.6
105°	417.5	206.9	199.1	167.9	136.7
107.5°	419.6	234.0	226.7	197.6	168.5
110°	416.4	249.1	242.5	216.2	189.9



TEST NUMBER: P935102

CATALOG NUMBER: SQ4-FA-100U-050D-B40-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	416.6	267.3	261.0	236.0	211.0
115°	420.4	294.7	288.9	265.8	242.7
117.5°	428.2	321.4	316.1	295.1	274.1
120°	434.5	336.8	331.9	312.1	292.3
122.5°	443.7	355.2	350.2	330.2	310.3
125°	456.0	378.6	374.0	355.8	337.7
127.5°	468.3	401.2	396.6	378.2	359.8
130°	477.3	416.3	411.3	391.6	371.8
132.5°	484.6	428.6	423.6	403.9	384.1
135°	492.6	442.9	438.4	420.4	402.4
137.5°	504.4	461.2	456.7	438.9	421.1
140°	511.8	473.5	469.4	453.0	436.5
142.5°	517.9	482.7	478.8	463.7	448.5
145°	525.8	496.5	493.2	480.0	466.7
147.5°	537.5	514.0	510.7	497.9	485.0
150°	543.6	523.1	520.2	508.5	496.9
152.5°	547.5	529.1	526.9	518.0	509.2
155°	556.3	542.2	540.6	534.0	527.5
157.5°	565.0	555.3	553.7	547.4	541.0
160°	569.0	561.3	560.0	555.1	550.2
162.5°	573.2	567.7	566.7	563.0	559.2
165°	579.3	576.7	575.9	572.5	569.2
167.5°	584.1	582.0	581.6	580.0	578.3
170°	588.0	587.9	587.5	585.9	584.4
172.5°	588.3	588.3	588.2	587.9	587.5
175°	590.7	591.9	591.9	591.9	591.9
177.5°	591.0	591.9	591.9	591.9	591.9
180°	591.9	591.9	591.9	591.9	591.9



TEST NUMBER: P935102
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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	9.16	9.87	10.26	10.97	12.48	11.95	12.67	13.05	13.77	15.28
	3H	9.62	10.26	10.73	11.37	12.90	13.28	13.92	14.39	15.02	16.55
	4H	9.80	10.41	10.93	11.52	13.06	13.71	14.32	14.83	15.42	16.96
	6H	9.92	10.48	11.05	11.59	13.13	13.98	14.54	15.11	15.65	17.19
	8H	9.91	10.45	11.05	11.57	13.11	14.04	14.57	15.17	15.70	17.24
	12H	9.88	10.38	11.02	11.50	13.07	14.07	14.58	15.21	15.70	17.26
4H	2H	10.16	10.77	11.29	11.88	13.41	12.34	12.95	13.47	14.06	15.60
	3H	11.17	11.68	12.31	12.81	14.36	13.83	14.33	14.96	15.47	17.02
	4H	11.44	11.91	12.58	13.03	14.60	14.34	14.81	15.48	15.93	17.50
	6H	11.56	11.96	12.70	13.11	14.67	14.69	15.09	15.83	16.24	17.80
	8H	11.56	11.94	12.71	13.07	14.65	14.79	15.16	15.93	16.30	17.88
	12H	11.52	11.86	12.68	13.01	14.59	14.83	15.17	15.99	16.32	17.90
8H	4H	11.88	12.25	13.02	13.39	14.97	14.46	14.83	15.60	15.97	17.54
	6H	12.14	12.44	13.30	13.62	15.20	14.88	15.19	16.04	16.37	17.94
	8H	12.18	12.45	13.35	13.60	15.20	15.02	15.29	16.19	16.45	18.04
	12H	12.15	12.39	13.33	13.55	15.17	15.11	15.35	16.28	16.50	18.13
12H	4H	11.88	12.22	13.04	13.37	14.95	14.41	14.75	15.57	15.90	17.48
	6H	12.19	12.46	13.36	13.62	15.22	14.87	15.14	16.04	16.30	17.90
	8H	12.25	12.49	13.43	13.65	15.27	15.02	15.26	16.20	16.42	18.04