

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: P935051

Luminaire Tested: SQ4-FA-100U-050D-930-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935051
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-050D-930-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

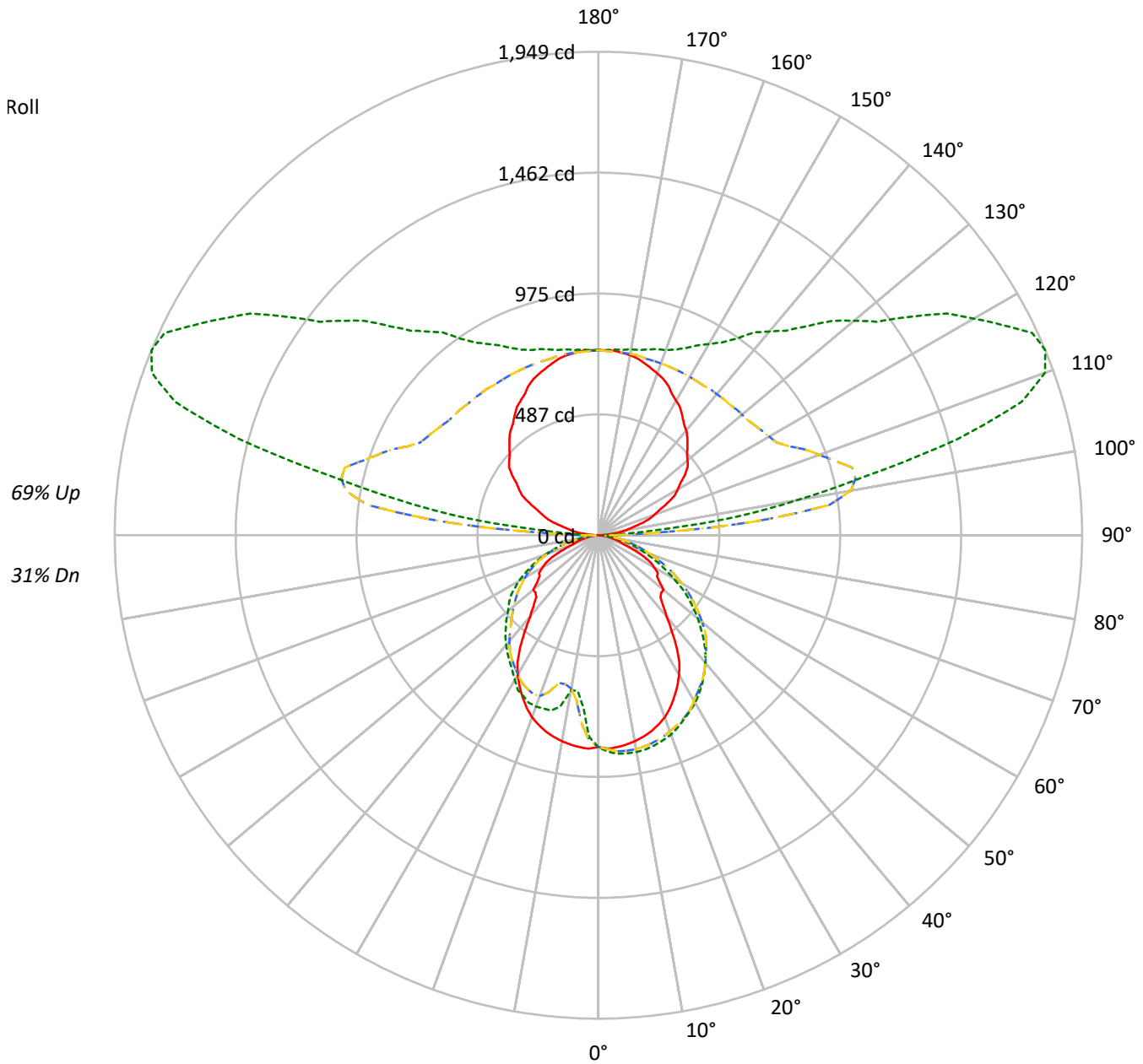
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7056.0 lumens
Efficiency: N/A
Efficacy: 114.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 61.8
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: P935051
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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°	5282	5282	5282	5282
5°	5319	5332	5319	4192
10°	5282	5252	5282	3755
15°	5223	5139	5223	4291
20°	5112	5003	5112	4300
25°	4885	4807	4885	4208
30°	4595	4644	4595	4009
35°	4094	4437	4094	3789
40°	3410	4194	3410	3623
45°	3044	3910	3044	3432
50°	3232	3571	3232	3240
55°	3038	3205	3038	3129
60°	3128	2722	3128	2865
65°	2831	2250	2831	2515
70°	1956	1793	1956	2108
75°	1710	1325	1710	1587
80°	1367	876	1367	955
85°	769	464	769	395

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4670 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.1	1.1
10°-20°	218.8	3.1
20°-30°	338.3	4.8
30°-40°	403.8	5.7
40°-50°	406.2	5.8
50°-60°	353.4	5.0
60°-70°	250.6	3.6
70°-80°	132.6	1.9
80°-90°	35.9	0.5
90°-100°	363.9	5.2
100°-110°	956.7	13.6
110°-120°	991.9	14.1
120°-130°	795.7	11.3
130°-140°	624.3	8.8
140°-150°	479.2	6.8
150°-160°	345.1	4.9
160°-170°	211.1	3.0
170°-180°	71.3	1.0
0°-30°	634.2	9.0
0°-40°	1038.0	14.7
0°-60°	1797.7	25.5
0°-90°	2216.7	31.4
90°-120°	2312.5	32.8
90°-150°	4211.7	59.7
90°-180°	4839.0	68.6
0°-180°	7056.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	854	854	854	854	854	
5°	858	884	858	696	858	81
15°	819	876	819	732	819	230
25°	721	818	721	716	721	331
35°	548	729	548	623	548	339
45°	354	601	354	528	354	283
55°	288	444	288	433	288	265
65°	200	267	200	299	200	191
75°	76	127	76	152	76	80
85°	13	32	13	28	13	17
90°	5	19	5	19	5	5
95°	48	220	48	220	48	53
105°	172	1498	172	1498	172	183
115°	306	1929	306	1929	306	302
125°	426	1536	426	1536	426	378
135°	508	1192	508	1192	508	393
145°	589	967	589	967	589	369
155°	665	833	665	833	665	306
165°	718	776	718	776	718	203
175°	746	752	746	752	746	71
180°	746	746	746	746	746	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	861.1	861.1	866.0	867.6	867.6	865.2	862.7	865.2	872.5	874.9	874.1
5°	857.8	864.3	873.3	874.9	876.5	875.7	874.1	875.7	883.7	885.4	886.2
7.5°	851.4	863.5	874.9	877.3	879.7	877.3	876.5	878.1	886.2	887.8	887.8
10°	843.3	860.3	873.3	874.9	877.3	874.9	874.9	878.1	886.2	887.8	888.6
12.5°	832.1	855.4	867.6	869.2	872.5	871.7	870.8	874.1	882.1	883.7	883.7
15°	819.1	846.6	857.8	859.5	865.2	863.5	863.5	866.8	875.7	878.1	877.3
17.5°	801.3	835.3	848.2	850.6	854.6	853.8	854.6	857.8	866.0	867.6	868.4
20°	781.2	819.9	835.3	837.7	841.7	841.7	841.7	845.8	853.8	857.0	857.0
22.5°	753.7	803.7	819.9	821.5	826.4	826.4	828.0	833.7	840.9	841.7	841.7
25°	721.3	786.0	799.7	804.6	809.4	811.8	814.2	817.5	819.9	819.1	819.9
27.5°	687.4	763.3	781.2	784.4	790.9	793.3	796.5	797.3	798.1	800.5	798.9
30°	649.5	731.9	758.5	761.7	772.2	773.9	770.6	772.2	776.3	777.9	779.6
32.5°	606.7	685.0	735.1	742.4	752.1	747.2	746.4	748.8	755.3	755.3	756.9
35°	548.5	648.7	713.3	719.7	727.0	721.3	724.6	725.4	729.4	731.9	731.1
37.5°	484.7	617.2	690.7	695.5	701.2	693.9	698.8	701.2	704.4	702.8	702.8
40°	428.2	567.9	664.0	667.2	672.1	666.4	671.3	672.9	674.5	672.9	672.1
42.5°	386.2	513.8	635.7	639.8	636.5	640.6	642.2	645.5	643.0	639.8	639.8
45°	353.8	499.2	605.1	609.9	605.1	611.5	613.9	613.9	606.7	605.1	604.3
47.5°	343.3	470.2	574.4	574.4	571.9	580.0	584.0	578.4	571.1	568.7	568.7
50°	342.5	437.8	532.3	529.1	540.4	550.1	546.0	540.4	534.8	525.9	525.9
52.5°	311.0	398.2	478.2	490.3	508.1	513.8	507.3	501.6	491.9	487.9	484.7
55°	288.4	357.0	429.0	453.2	471.8	479.0	466.9	461.2	446.7	444.3	442.7
57.5°	283.5	297.3	383.7	414.4	437.0	436.2	429.0	418.4	406.3	403.9	403.1
60°	260.1	214.9	335.3	371.6	395.0	392.6	386.2	376.4	365.1	363.5	361.9
62.5°	235.8	155.9	280.3	321.5	354.6	353.8	348.2	333.6	325.5	321.5	318.3
65°	200.3	130.9	199.5	267.4	315.0	316.6	304.6	294.1	285.1	280.3	279.5
67.5°	152.7	106.6	134.9	223.0	277.1	275.4	260.1	255.3	244.0	241.5	236.7
70°	113.1	71.1	93.7	180.9	239.9	235.8	223.8	218.1	207.6	202.0	198.7
72.5°	93.7	57.3	68.7	140.5	202.0	197.1	186.6	180.1	171.3	166.4	163.2
75°	76.0	60.5	52.5	104.2	164.0	160.8	151.0	144.6	137.3	130.9	131.7
77.5°	55.7	56.5	42.0	76.8	130.1	125.2	119.6	111.5	108.2	101.8	101.8
80°	42.0	44.4	31.5	52.5	93.7	93.7	88.9	83.2	77.6	74.4	74.4
82.5°	28.3	28.3	23.4	33.1	63.8	61.4	58.1	56.5	53.3	51.7	51.7
85°	12.9	16.1	14.5	20.2	34.8	36.4	36.4	34.8	34.0	32.3	33.1
87.5°	4.0	7.3	8.9	11.3	17.7	18.5	19.4	19.4	19.4	20.2	20.2
90°	5.0	9.0	13.0	14.1	22.1	32.8	38.1	33.8	25.4	19.0	19.0
92.5°	20.1	54.1	88.2	96.7	135.9	188.2	214.4	187.9	134.9	95.2	91.4
95°	48.1	110.4	172.8	188.4	334.5	529.3	626.7	559.3	424.3	323.1	311.6
97.5°	83.2	138.2	193.2	206.9	450.6	775.5	937.9	895.3	810.0	746.0	724.1
100°	110.3	160.1	210.0	222.4	492.8	853.3	1033.5	1036.7	1042.9	1047.6	1021.6
102.5°	133.3	179.9	226.4	238.0	512.2	877.8	1060.6	1115.0	1223.6	1305.1	1282.9
105°	172.3	211.8	251.2	261.1	526.6	880.7	1057.6	1179.4	1423.0	1605.7	1593.7
107.5°	212.4	249.2	285.9	295.1	529.3	841.4	997.5	1167.4	1507.2	1762.0	1764.9
110°	239.5	272.6	305.9	314.1	525.2	806.7	947.4	1137.3	1517.2	1802.1	1814.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	266.0	297.7	329.3	337.2	525.4	776.3	901.8	1096.2	1485.0	1776.6	1795.7
115°	306.1	335.3	364.4	371.7	530.2	741.5	847.2	1034.4	1409.0	1689.9	1716.5
117.5°	345.7	372.2	398.7	405.3	540.0	719.7	809.6	978.6	1316.6	1570.1	1599.6
120°	368.7	393.7	418.6	424.9	548.1	712.4	794.6	949.0	1257.8	1489.5	1518.1
122.5°	391.3	416.4	441.6	447.9	559.6	708.6	783.1	922.2	1200.2	1408.8	1437.0
125°	425.8	448.8	471.8	477.5	575.2	705.4	770.6	888.7	1124.9	1302.1	1328.2
127.5°	453.9	477.1	500.3	506.1	590.7	703.6	760.0	861.5	1064.3	1216.5	1238.4
130°	469.0	493.9	518.8	525.1	602.1	704.7	756.0	846.3	1026.9	1162.3	1182.6
132.5°	484.4	509.4	534.3	540.6	611.2	705.4	752.5	833.4	995.0	1116.3	1134.4
135°	507.5	530.2	552.9	558.6	621.3	704.7	746.5	814.2	949.5	1051.1	1066.8
137.5°	531.0	553.5	576.1	581.7	636.3	709.1	745.5	802.8	917.2	1003.0	1015.8
140°	550.6	571.3	592.1	597.2	645.5	709.8	742.0	791.4	890.3	964.4	976.4
142.5°	565.6	584.8	603.9	608.8	653.2	712.3	742.0	785.4	872.2	937.3	947.6
145°	588.7	605.4	622.1	626.3	663.2	712.4	737.0	772.5	843.6	896.8	904.6
147.5°	611.7	627.9	644.2	648.3	677.8	717.2	737.0	764.9	820.8	862.7	869.2
150°	626.7	641.4	656.1	659.8	685.5	719.8	737.0	760.6	807.7	843.2	848.4
152.5°	642.3	653.5	664.6	667.4	690.6	721.5	737.0	757.1	797.5	827.7	831.6
155°	665.4	673.6	681.7	683.8	701.6	725.2	737.0	753.1	785.1	809.1	811.8
157.5°	682.4	690.4	698.4	700.4	712.6	728.9	737.0	749.4	774.4	793.1	795.0
160°	693.9	700.1	706.4	707.9	717.6	730.6	737.0	747.7	769.0	785.1	786.1
162.5°	705.4	710.1	714.8	716.0	722.9	732.3	737.0	746.0	764.1	777.5	778.5
165°	718.0	722.1	726.4	727.4	730.6	734.9	737.0	743.4	756.3	766.1	767.1
167.5°	729.4	731.5	733.5	733.9	736.6	740.2	742.0	746.2	754.7	761.0	761.5
170°	737.0	739.0	741.0	741.5	741.7	741.9	742.0	746.2	754.7	761.0	761.0
172.5°	741.0	741.4	741.9	742.0	742.0	742.0	742.0	745.3	752.0	757.0	756.6
175°	746.5	746.5	746.5	746.5	744.9	742.9	742.0	744.1	748.3	751.5	751.5
177.5°	746.5	746.5	746.5	746.5	745.3	743.8	743.0	744.7	748.0	750.5	750.0
180°	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	875.7	873.3	875.7	874.1	874.9	872.5	865.2	862.7	865.2	867.6	867.6
5°	886.2	884.5	886.2	886.2	885.4	883.7	875.7	874.1	875.7	876.5	874.9
7.5°	889.4	887.0	889.4	887.8	887.8	886.2	878.1	876.5	877.3	879.7	877.3
10°	889.4	887.0	889.4	888.6	887.8	886.2	878.1	874.9	874.9	877.3	874.9
12.5°	885.4	883.7	885.4	883.7	883.7	882.1	874.1	870.8	871.7	872.5	869.2
15°	878.9	876.5	878.9	877.3	878.1	875.7	866.8	863.5	863.5	865.2	859.5
17.5°	869.2	866.0	869.2	868.4	867.6	866.0	857.8	854.6	853.8	854.6	850.6
20°	857.8	855.4	857.8	857.0	857.0	853.8	845.8	841.7	841.7	841.7	837.7
22.5°	840.1	837.7	840.1	841.7	841.7	840.9	833.7	828.0	826.4	826.4	821.5
25°	819.9	817.5	819.9	819.9	819.1	819.9	817.5	814.2	811.8	809.4	804.6
27.5°	800.5	798.9	800.5	798.9	800.5	798.1	797.3	796.5	793.3	790.9	784.4
30°	781.2	779.6	781.2	779.6	777.9	776.3	772.2	770.6	773.9	772.2	761.7
32.5°	756.9	755.3	756.9	756.9	755.3	755.3	748.8	746.4	747.2	752.1	742.4
35°	731.9	729.4	731.9	731.1	731.9	729.4	725.4	724.6	721.3	727.0	719.7
37.5°	702.8	700.4	702.8	702.8	702.8	704.4	701.2	698.8	693.9	701.2	695.5
40°	672.9	669.7	672.9	672.1	672.9	674.5	672.9	671.3	666.4	672.1	667.2
42.5°	638.9	638.1	638.9	639.8	639.8	643.0	645.5	642.2	640.6	636.5	639.8
45°	602.7	601.0	602.7	604.3	605.1	606.7	613.9	613.9	611.5	605.1	609.9
47.5°	563.9	559.8	563.9	568.7	568.7	571.1	578.4	584.0	580.0	571.9	574.4
50°	522.7	523.5	522.7	525.9	525.9	534.8	540.4	546.0	550.1	540.4	529.1
52.5°	482.3	481.5	482.3	484.7	487.9	491.9	501.6	507.3	513.8	508.1	490.3
55°	441.9	443.5	441.9	442.7	444.3	446.7	461.2	466.9	479.0	471.8	453.2
57.5°	401.5	399.1	401.5	403.1	403.9	406.3	418.4	429.0	436.2	437.0	414.4
60°	354.6	351.4	354.6	361.9	363.5	365.1	376.4	386.2	392.6	395.0	371.6
62.5°	313.4	307.8	313.4	318.3	321.5	325.5	333.6	348.2	353.8	354.6	321.5
65°	269.8	267.4	269.8	279.5	280.3	285.1	294.1	304.6	316.6	315.0	267.4
67.5°	230.2	230.2	230.2	236.7	241.5	244.0	255.3	260.1	275.4	277.1	223.0
70°	193.8	193.0	193.8	198.7	202.0	207.6	218.1	223.8	235.8	239.9	180.9
72.5°	159.2	158.4	159.2	163.2	166.4	171.3	180.1	186.6	197.1	202.0	140.5
75°	128.5	126.8	128.5	131.7	130.9	137.3	144.6	151.0	160.8	164.0	104.2
77.5°	98.5	98.5	98.5	101.8	101.8	108.2	111.5	119.6	125.2	130.1	76.8
80°	73.5	72.7	73.5	74.4	74.4	77.6	83.2	88.9	93.7	93.7	52.5
82.5°	51.7	50.1	51.7	51.7	51.7	53.3	56.5	58.1	61.4	63.8	33.1
85°	32.3	32.3	32.3	33.1	32.3	34.0	34.8	36.4	36.4	34.8	20.2
87.5°	21.0	20.2	21.0	20.2	20.2	19.4	19.4	19.4	18.5	17.7	11.3
90°	19.0	19.0	19.0	19.0	19.0	25.4	33.8	38.1	32.8	22.1	14.1
92.5°	76.2	61.1	76.2	91.4	95.2	134.9	187.9	214.4	188.2	135.9	96.7
95°	265.8	219.9	265.8	311.6	323.1	424.3	559.3	626.7	529.3	334.5	188.4
97.5°	636.9	549.6	636.9	724.1	746.0	810.0	895.3	937.9	775.5	450.6	206.9
100°	917.6	813.6	917.6	1021.6	1047.6	1042.9	1036.7	1033.5	853.3	492.8	222.4
102.5°	1193.7	1104.7	1193.7	1282.9	1305.1	1223.6	1115.0	1060.6	877.8	512.2	238.0
105°	1545.9	1498.0	1545.9	1593.7	1605.7	1423.0	1179.4	1057.6	880.7	526.6	261.1
107.5°	1776.6	1788.1	1776.6	1764.9	1762.0	1507.2	1167.4	997.5	841.4	529.3	295.1
110°	1864.5	1914.4	1864.5	1814.5	1802.1	1517.2	1137.3	947.4	806.7	525.2	314.1



TEST NUMBER: P935051

CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1872.3	1948.9	1872.3	1795.7	1776.6	1485.0	1096.2	901.8	776.3	525.4	337.2
115°	1822.6	1928.9	1822.6	1716.5	1689.9	1409.0	1034.4	847.2	741.5	530.2	371.7
117.5°	1717.4	1835.2	1717.4	1599.6	1570.1	1316.6	978.6	809.6	719.7	540.0	405.3
120°	1632.6	1747.0	1632.6	1518.1	1489.5	1257.8	949.0	794.6	712.4	548.1	424.9
122.5°	1550.0	1662.9	1550.0	1437.0	1408.8	1200.2	922.2	783.1	708.6	559.6	447.9
125°	1432.1	1536.1	1432.1	1328.2	1302.1	1124.9	888.7	770.6	705.4	575.2	477.5
127.5°	1326.2	1413.8	1326.2	1238.4	1216.5	1064.3	861.5	760.0	703.6	590.7	506.1
130°	1263.7	1344.7	1263.7	1182.6	1162.3	1026.9	846.3	756.0	704.7	602.1	525.1
132.5°	1207.0	1279.6	1207.0	1134.4	1116.3	995.0	833.4	752.5	705.4	611.2	540.6
135°	1129.3	1191.9	1129.3	1066.8	1051.1	949.5	814.2	746.5	704.7	621.3	558.6
137.5°	1067.0	1118.3	1067.0	1015.8	1003.0	917.2	802.8	745.5	709.1	636.3	581.7
140°	1024.3	1072.2	1024.3	976.4	964.4	890.3	791.4	742.0	709.8	645.5	597.2
142.5°	988.9	1030.1	988.9	947.6	937.3	872.2	785.4	742.0	712.3	653.2	608.8
145°	935.8	967.0	935.8	904.6	896.8	843.6	772.5	737.0	712.4	663.2	626.3
147.5°	895.0	920.9	895.0	869.2	862.7	820.8	764.9	737.0	717.2	677.8	648.3
150°	869.3	890.3	869.3	848.4	843.2	807.7	760.6	737.0	719.8	685.5	659.8
152.5°	847.4	863.2	847.4	831.6	827.7	797.5	757.1	737.0	721.5	690.6	667.4
155°	822.2	832.6	822.2	811.8	809.1	785.1	753.1	737.0	725.2	701.6	683.8
157.5°	802.3	809.6	802.3	795.0	793.1	774.4	749.4	737.0	728.9	712.6	700.4
160°	790.4	794.6	790.4	786.1	785.1	769.0	747.7	737.0	730.6	717.6	707.9
162.5°	782.5	786.5	782.5	778.5	777.5	764.1	746.0	737.0	732.3	722.9	716.0
165°	771.4	775.5	771.4	767.1	766.1	756.3	743.4	737.0	734.9	730.6	727.4
167.5°	763.3	765.0	763.3	761.5	761.0	754.7	746.2	742.0	740.2	736.6	733.9
170°	761.0	761.0	761.0	761.0	761.0	754.7	746.2	742.0	741.9	741.7	741.5
172.5°	755.1	753.5	755.1	756.6	757.0	752.0	745.3	742.0	742.0	742.0	742.0
175°	751.5	751.5	751.5	751.5	751.5	748.3	744.1	742.0	742.9	744.9	746.5
177.5°	748.2	746.5	748.2	750.0	750.5	748.0	744.7	743.0	743.8	745.3	746.5
180°	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5



TEST NUMBER: P935051

CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	866.0	861.1	861.1	853.0	849.8	847.4	843.3	831.3	828.0	824.8	829.6
5°	873.3	864.3	857.8	843.3	831.3	826.4	811.0	782.0	762.5	748.0	740.0
7.5°	874.9	863.5	851.4	828.8	799.7	786.8	740.0	686.6	672.1	659.2	651.1
10°	873.3	860.3	843.3	809.4	740.8	718.1	671.3	636.5	627.6	625.2	627.6
12.5°	867.6	855.4	832.1	775.5	679.3	664.0	636.5	616.4	614.7	618.8	640.6
15°	857.8	846.6	819.1	730.2	645.5	634.1	614.7	607.5	616.4	644.6	710.1
17.5°	848.2	835.3	801.3	685.8	619.6	611.5	597.8	612.3	662.4	700.4	722.1
20°	835.3	819.9	781.2	653.5	601.0	593.7	587.2	652.7	690.7	704.4	716.5
22.5°	819.9	803.7	753.7	630.9	581.6	576.0	580.0	675.3	690.7	700.4	710.9
25°	799.7	786.0	721.3	613.1	566.3	559.8	575.2	672.9	681.7	684.2	705.2
27.5°	781.2	763.3	687.4	597.0	547.7	545.2	579.2	662.4	668.9	671.3	693.9
30°	758.5	731.9	649.5	580.0	528.3	527.5	580.0	649.5	647.9	654.3	676.9
32.5°	735.1	685.0	606.7	559.0	509.7	508.9	574.4	630.1	628.5	637.3	654.3
35°	713.3	648.7	548.5	534.8	486.3	487.1	560.6	607.5	608.3	616.4	626.8
37.5°	690.7	617.2	484.7	508.1	463.7	463.7	542.0	586.4	584.8	587.2	601.8
40°	664.0	567.9	428.2	473.4	442.7	440.3	519.4	563.9	558.2	557.4	577.6
42.5°	635.7	513.8	386.2	427.4	418.4	415.2	491.9	536.4	525.9	528.3	554.2
45°	605.1	499.2	353.8	361.1	393.4	391.0	462.0	504.8	497.6	504.0	530.7
47.5°	574.4	470.2	343.3	299.7	366.7	365.9	429.0	474.2	470.2	476.6	504.8
50°	532.3	437.8	342.5	256.9	336.9	340.1	389.4	444.3	444.3	449.9	479.9
52.5°	478.2	398.2	311.0	232.6	302.1	311.8	354.6	418.4	420.0	425.8	452.3
55°	429.0	357.0	288.4	214.1	260.9	281.9	320.7	391.8	395.0	400.7	424.9
57.5°	383.7	297.3	283.5	192.2	223.0	243.1	290.8	365.9	367.5	372.4	395.8
60°	335.3	214.9	260.1	168.8	189.8	205.2	263.3	335.3	340.9	344.1	364.3
62.5°	280.3	155.9	235.8	152.7	173.7	176.9	240.7	306.2	313.4	315.8	327.9
65°	199.5	130.9	200.3	138.9	156.7	157.5	216.5	276.2	282.7	286.8	295.7
67.5°	134.9	106.6	152.7	126.0	143.8	144.6	193.0	241.5	250.5	253.7	259.3
70°	93.7	71.1	113.1	112.3	129.3	130.9	168.0	210.1	218.1	220.5	223.8
72.5°	68.7	57.3	93.7	100.9	113.9	115.6	142.2	174.5	182.6	185.0	186.6
75°	52.5	60.5	76.0	88.1	96.9	97.7	116.4	142.2	147.8	149.4	150.2
77.5°	42.0	56.5	55.7	71.1	79.2	77.6	91.3	109.9	114.7	114.7	114.7
80°	31.5	44.4	42.0	50.9	58.1	56.5	65.4	78.4	80.0	81.6	80.8
82.5°	23.4	28.3	28.3	32.3	38.8	37.2	43.6	50.9	50.9	50.9	52.5
85°	14.5	16.1	12.9	16.9	21.8	21.0	24.3	27.5	28.3	28.3	26.7
87.5°	8.9	7.3	4.0	6.4	9.7	9.7	11.3	12.1	11.3	11.3	11.3
90°	13.0	9.0	5.0	9.0	13.0	14.1	22.1	32.8	38.1	33.8	25.4
92.5°	88.2	54.1	20.1	54.1	88.2	96.7	135.9	188.2	214.4	187.9	134.9
95°	172.8	110.4	48.1	110.4	172.8	188.4	334.5	529.3	626.7	559.3	424.3
97.5°	193.2	138.2	83.2	138.2	193.2	206.9	450.6	775.5	937.9	895.3	810.0
100°	210.0	160.1	110.3	160.1	210.0	222.4	492.8	853.3	1033.5	1036.7	1042.9
102.5°	226.4	179.9	133.3	179.9	226.4	238.0	512.2	877.8	1060.6	1115.0	1223.6
105°	251.2	211.8	172.3	211.8	251.2	261.1	526.6	880.7	1057.6	1179.4	1423.0
107.5°	285.9	249.2	212.4	249.2	285.9	295.1	529.3	841.4	997.5	1167.4	1507.2
110°	305.9	272.6	239.5	272.6	305.9	314.1	525.2	806.7	947.4	1137.3	1517.2



TEST NUMBER: P935051

CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	329.3	297.7	266.0	297.7	329.3	337.2	525.4	776.3	901.8	1096.2	1485.0
115°	364.4	335.3	306.1	335.3	364.4	371.7	530.2	741.5	847.2	1034.4	1409.0
117.5°	398.7	372.2	345.7	372.2	398.7	405.3	540.0	719.7	809.6	978.6	1316.6
120°	418.6	393.7	368.7	393.7	418.6	424.9	548.1	712.4	794.6	949.0	1257.8
122.5°	441.6	416.4	391.3	416.4	441.6	447.9	559.6	708.6	783.1	922.2	1200.2
125°	471.8	448.8	425.8	448.8	471.8	477.5	575.2	705.4	770.6	888.7	1124.9
127.5°	500.3	477.1	453.9	477.1	500.3	506.1	590.7	703.6	760.0	861.5	1064.3
130°	518.8	493.9	469.0	493.9	518.8	525.1	602.1	704.7	756.0	846.3	1026.9
132.5°	534.3	509.4	484.4	509.4	534.3	540.6	611.2	705.4	752.5	833.4	995.0
135°	552.9	530.2	507.5	530.2	552.9	558.6	621.3	704.7	746.5	814.2	949.5
137.5°	576.1	553.5	531.0	553.5	576.1	581.7	636.3	709.1	745.5	802.8	917.2
140°	592.1	571.3	550.6	571.3	592.1	597.2	645.5	709.8	742.0	791.4	890.3
142.5°	603.9	584.8	565.6	584.8	603.9	608.8	653.2	712.3	742.0	785.4	872.2
145°	622.1	605.4	588.7	605.4	622.1	626.3	663.2	712.4	737.0	772.5	843.6
147.5°	644.2	627.9	611.7	627.9	644.2	648.3	677.8	717.2	737.0	764.9	820.8
150°	656.1	641.4	626.7	641.4	656.1	659.8	685.5	719.8	737.0	760.6	807.7
152.5°	664.6	653.5	642.3	653.5	664.6	667.4	690.6	721.5	737.0	757.1	797.5
155°	681.7	673.6	665.4	673.6	681.7	683.8	701.6	725.2	737.0	753.1	785.1
157.5°	698.4	690.4	682.4	690.4	698.4	700.4	712.6	728.9	737.0	749.4	774.4
160°	706.4	700.1	693.9	700.1	706.4	707.9	717.6	730.6	737.0	747.7	769.0
162.5°	714.8	710.1	705.4	710.1	714.8	716.0	722.9	732.3	737.0	746.0	764.1
165°	726.4	722.1	718.0	722.1	726.4	727.4	730.6	734.9	737.0	743.4	756.3
167.5°	733.5	731.5	729.4	731.5	733.5	733.9	736.6	740.2	742.0	746.2	754.7
170°	741.0	739.0	737.0	739.0	741.0	741.5	741.7	741.9	742.0	746.2	754.7
172.5°	741.9	741.4	741.0	741.4	741.9	742.0	742.0	742.0	742.0	745.3	752.0
175°	746.5	746.5	746.5	746.5	746.5	746.5	744.9	742.9	742.0	744.1	748.3
177.5°	746.5	746.5	746.5	746.5	746.5	746.5	745.3	743.8	743.0	744.7	748.0
180°	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5



TEST NUMBER: P935051
 CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	824.0	821.5	824.8	815.8	824.8	821.5	824.0	829.6	824.8	828.0	831.3
5°	723.0	718.9	706.0	695.5	706.0	718.9	723.0	740.0	748.0	762.5	782.0
7.5°	646.3	643.0	639.8	633.3	639.8	643.0	646.3	651.1	659.2	672.1	686.6
10°	629.3	630.1	634.9	634.1	634.9	630.1	629.3	627.6	625.2	627.6	636.5
12.5°	672.9	680.1	706.8	705.2	706.8	680.1	672.9	640.6	618.8	614.7	616.4
15°	723.0	725.4	731.1	731.9	731.1	725.4	723.0	710.1	644.6	616.4	607.5
17.5°	727.8	728.6	732.7	732.7	732.7	728.6	727.8	722.1	700.4	662.4	612.3
20°	723.8	725.4	733.5	735.1	733.5	725.4	723.8	716.5	704.4	690.7	652.7
22.5°	722.1	725.4	731.9	731.1	731.9	725.4	722.1	710.9	700.4	690.7	675.3
25°	714.1	714.1	714.9	715.7	714.9	714.1	714.1	705.2	684.2	681.7	672.9
27.5°	697.2	698.8	703.6	702.8	703.6	698.8	697.2	693.9	671.3	668.9	662.4
30°	681.7	680.1	676.1	672.9	676.1	680.1	681.7	676.9	654.3	647.9	649.5
32.5°	656.0	651.9	647.9	645.5	647.9	651.9	656.0	654.3	637.3	628.5	630.1
35°	625.2	626.0	625.2	622.8	625.2	626.0	625.2	626.8	616.4	608.3	607.5
37.5°	603.5	605.1	604.3	601.0	604.3	605.1	603.5	601.8	587.2	584.8	586.4
40°	580.8	581.6	580.8	578.4	580.8	581.6	580.8	577.6	557.4	558.2	563.9
42.5°	559.0	558.2	555.8	554.2	555.8	558.2	559.0	554.2	528.3	525.9	536.4
45°	534.0	534.8	529.9	527.5	529.9	534.8	534.0	530.7	504.0	497.6	504.8
47.5°	508.9	508.9	504.8	502.4	504.8	508.9	508.9	504.8	476.6	470.2	474.2
50°	482.3	481.5	475.8	475.0	475.8	481.5	482.3	479.9	449.9	444.3	444.3
52.5°	451.5	451.5	452.3	454.0	452.3	451.5	451.5	452.3	425.8	420.0	418.4
55°	424.9	425.8	431.4	433.0	431.4	425.8	424.9	424.9	400.7	395.0	391.8
57.5°	397.4	397.4	401.5	401.5	401.5	397.4	397.4	395.8	372.4	367.5	365.9
60°	365.9	367.5	370.7	369.9	370.7	367.5	365.9	364.3	344.1	340.9	335.3
62.5°	332.8	334.4	335.3	333.6	335.3	334.4	332.8	327.9	315.8	313.4	306.2
65°	298.1	299.7	300.5	298.9	300.5	299.7	298.1	295.7	286.8	282.7	276.2
67.5°	262.5	261.7	260.9	264.2	260.9	261.7	262.5	259.3	253.7	250.5	241.5
70°	226.2	226.2	225.4	227.0	225.4	226.2	226.2	223.8	220.5	218.1	210.1
72.5°	187.4	186.6	189.8	187.4	189.8	186.6	187.4	186.6	185.0	182.6	174.5
75°	149.4	151.0	149.4	151.8	149.4	151.0	149.4	150.2	149.4	147.8	142.2
77.5°	113.9	115.6	113.9	113.9	113.9	115.6	113.9	114.7	114.7	114.7	109.9
80°	80.8	80.0	80.0	79.2	80.0	80.0	80.8	80.8	81.6	80.0	78.4
82.5°	51.7	50.9	50.9	52.5	50.9	50.9	51.7	52.5	50.9	50.9	50.9
85°	28.3	29.1	27.5	27.5	27.5	29.1	28.3	26.7	28.3	28.3	27.5
87.5°	10.5	9.7	9.7	9.7	9.7	9.7	10.5	11.3	11.3	11.3	12.1
90°	19.0	19.0	19.0	19.0	19.0	19.0	19.0	25.4	33.8	38.1	32.8
92.5°	95.2	91.4	76.2	61.1	76.2	91.4	95.2	134.9	187.9	214.4	188.2
95°	323.1	311.6	265.8	219.9	265.8	311.6	323.1	424.3	559.3	626.7	529.3
97.5°	746.0	724.1	636.9	549.6	636.9	724.1	746.0	810.0	895.3	937.9	775.5
100°	1047.6	1021.6	917.6	813.6	917.6	1021.6	1047.6	1042.9	1036.7	1033.5	853.3
102.5°	1305.1	1282.9	1193.7	1104.7	1193.7	1282.9	1305.1	1223.6	1115.0	1060.6	877.8
105°	1605.7	1593.7	1545.9	1498.0	1545.9	1593.7	1605.7	1423.0	1179.4	1057.6	880.7
107.5°	1762.0	1764.9	1776.6	1788.1	1776.6	1764.9	1762.0	1507.2	1167.4	997.5	841.4
110°	1802.1	1814.5	1864.5	1914.4	1864.5	1814.5	1802.1	1517.2	1137.3	947.4	806.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1776.6	1795.7	1872.3	1948.9	1872.3	1795.7	1776.6	1485.0	1096.2	901.8	776.3
115°	1689.9	1716.5	1822.6	1928.9	1822.6	1716.5	1689.9	1409.0	1034.4	847.2	741.5
117.5°	1570.1	1599.6	1717.4	1835.2	1717.4	1599.6	1570.1	1316.6	978.6	809.6	719.7
120°	1489.5	1518.1	1632.6	1747.0	1632.6	1518.1	1489.5	1257.8	949.0	794.6	712.4
122.5°	1408.8	1437.0	1550.0	1662.9	1550.0	1437.0	1408.8	1200.2	922.2	783.1	708.6
125°	1302.1	1328.2	1432.1	1536.1	1432.1	1328.2	1302.1	1124.9	888.7	770.6	705.4
127.5°	1216.5	1238.4	1326.2	1413.8	1326.2	1238.4	1216.5	1064.3	861.5	760.0	703.6
130°	1162.3	1182.6	1263.7	1344.7	1263.7	1182.6	1162.3	1026.9	846.3	756.0	704.7
132.5°	1116.3	1134.4	1207.0	1279.6	1207.0	1134.4	1116.3	995.0	833.4	752.5	705.4
135°	1051.1	1066.8	1129.3	1191.9	1129.3	1066.8	1051.1	949.5	814.2	746.5	704.7
137.5°	1003.0	1015.8	1067.0	1118.3	1067.0	1015.8	1003.0	917.2	802.8	745.5	709.1
140°	964.4	976.4	1024.3	1072.2	1024.3	976.4	964.4	890.3	791.4	742.0	709.8
142.5°	937.3	947.6	988.9	1030.1	988.9	947.6	937.3	872.2	785.4	742.0	712.3
145°	896.8	904.6	935.8	967.0	935.8	904.6	896.8	843.6	772.5	737.0	712.4
147.5°	862.7	869.2	895.0	920.9	895.0	869.2	862.7	820.8	764.9	737.0	717.2
150°	843.2	848.4	869.3	890.3	869.3	848.4	843.2	807.7	760.6	737.0	719.8
152.5°	827.7	831.6	847.4	863.2	847.4	831.6	827.7	797.5	757.1	737.0	721.5
155°	809.1	811.8	822.2	832.6	822.2	811.8	809.1	785.1	753.1	737.0	725.2
157.5°	793.1	795.0	802.3	809.6	802.3	795.0	793.1	774.4	749.4	737.0	728.9
160°	785.1	786.1	790.4	794.6	790.4	786.1	785.1	769.0	747.7	737.0	730.6
162.5°	777.5	778.5	782.5	786.5	782.5	778.5	777.5	764.1	746.0	737.0	732.3
165°	766.1	767.1	771.4	775.5	771.4	767.1	766.1	756.3	743.4	737.0	734.9
167.5°	761.0	761.5	763.3	765.0	763.3	761.5	761.0	754.7	746.2	742.0	740.2
170°	761.0	761.0	761.0	761.0	761.0	761.0	761.0	754.7	746.2	742.0	741.9
172.5°	757.0	756.6	755.1	753.5	755.1	756.6	757.0	752.0	745.3	742.0	742.0
175°	751.5	751.5	751.5	751.5	751.5	751.5	751.5	748.3	744.1	742.0	742.9
177.5°	750.5	750.0	748.2	746.5	748.2	750.0	750.5	748.0	744.7	743.0	743.8
180°	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5	746.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	853.8	853.8	853.8	853.8	853.8
2.5°	843.3	847.4	849.8	853.0	861.1
5°	811.0	826.4	831.3	843.3	857.8
7.5°	740.0	786.8	799.7	828.8	851.4
10°	671.3	718.1	740.8	809.4	843.3
12.5°	636.5	664.0	679.3	775.5	832.1
15°	614.7	634.1	645.5	730.2	819.1
17.5°	597.8	611.5	619.6	685.8	801.3
20°	587.2	593.7	601.0	653.5	781.2
22.5°	580.0	576.0	581.6	630.9	753.7
25°	575.2	559.8	566.3	613.1	721.3
27.5°	579.2	545.2	547.7	597.0	687.4
30°	580.0	527.5	528.3	580.0	649.5
32.5°	574.4	508.9	509.7	559.0	606.7
35°	560.6	487.1	486.3	534.8	548.5
37.5°	542.0	463.7	463.7	508.1	484.7
40°	519.4	440.3	442.7	473.4	428.2
42.5°	491.9	415.2	418.4	427.4	386.2
45°	462.0	391.0	393.4	361.1	353.8
47.5°	429.0	365.9	366.7	299.7	343.3
50°	389.4	340.1	336.9	256.9	342.5
52.5°	354.6	311.8	302.1	232.6	311.0
55°	320.7	281.9	260.9	214.1	288.4
57.5°	290.8	243.1	223.0	192.2	283.5
60°	263.3	205.2	189.8	168.8	260.1
62.5°	240.7	176.9	173.7	152.7	235.8
65°	216.5	157.5	156.7	138.9	200.3
67.5°	193.0	144.6	143.8	126.0	152.7
70°	168.0	130.9	129.3	112.3	113.1
72.5°	142.2	115.6	113.9	100.9	93.7
75°	116.4	97.7	96.9	88.1	76.0
77.5°	91.3	77.6	79.2	71.1	55.7
80°	65.4	56.5	58.1	50.9	42.0
82.5°	43.6	37.2	38.8	32.3	28.3
85°	24.3	21.0	21.8	16.9	12.9
87.5°	11.3	9.7	9.7	6.4	4.0
90°	22.1	14.1	13.0	9.0	5.0
92.5°	135.9	96.7	88.2	54.1	20.1
95°	334.5	188.4	172.8	110.4	48.1
97.5°	450.6	206.9	193.2	138.2	83.2
100°	492.8	222.4	210.0	160.1	110.3
102.5°	512.2	238.0	226.4	179.9	133.3
105°	526.6	261.1	251.2	211.8	172.3
107.5°	529.3	295.1	285.9	249.2	212.4
110°	525.2	314.1	305.9	272.6	239.5



TEST NUMBER: P935051

CATALOG NUMBER: SQ4-FA-100U-050D-930-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	525.4	337.2	329.3	297.7	266.0
115°	530.2	371.7	364.4	335.3	306.1
117.5°	540.0	405.3	398.7	372.2	345.7
120°	548.1	424.9	418.6	393.7	368.7
122.5°	559.6	447.9	441.6	416.4	391.3
125°	575.2	477.5	471.8	448.8	425.8
127.5°	590.7	506.1	500.3	477.1	453.9
130°	602.1	525.1	518.8	493.9	469.0
132.5°	611.2	540.6	534.3	509.4	484.4
135°	621.3	558.6	552.9	530.2	507.5
137.5°	636.3	581.7	576.1	553.5	531.0
140°	645.5	597.2	592.1	571.3	550.6
142.5°	653.2	608.8	603.9	584.8	565.6
145°	663.2	626.3	622.1	605.4	588.7
147.5°	677.8	648.3	644.2	627.9	611.7
150°	685.5	659.8	656.1	641.4	626.7
152.5°	690.6	667.4	664.6	653.5	642.3
155°	701.6	683.8	681.7	673.6	665.4
157.5°	712.6	700.4	698.4	690.4	682.4
160°	717.6	707.9	706.4	700.1	693.9
162.5°	722.9	716.0	714.8	710.1	705.4
165°	730.6	727.4	726.4	722.1	718.0
167.5°	736.6	733.9	733.5	731.5	729.4
170°	741.7	741.5	741.0	739.0	737.0
172.5°	742.0	742.0	741.9	741.4	741.0
175°	744.9	746.5	746.5	746.5	746.5
177.5°	745.3	746.5	746.5	746.5	746.5
180°	746.5	746.5	746.5	746.5	746.5



TEST NUMBER: P935051
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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	8.56	9.28	9.66	10.38	11.89	11.39	12.10	12.49	13.20	14.71
	3H	9.03	9.67	10.14	10.77	12.31	12.72	13.36	13.83	14.47	16.00
	4H	9.21	9.82	10.33	10.93	12.46	13.15	13.76	14.27	14.87	16.41
	6H	9.32	9.88	10.45	10.99	12.54	13.43	13.99	14.56	15.10	16.65
	8H	9.32	9.85	10.45	10.98	12.52	13.50	14.03	14.63	15.16	16.70
	12H	9.29	9.79	10.42	10.91	12.48	13.53	14.04	14.67	15.16	16.72
4H	2H	9.57	10.18	10.70	11.29	12.83	11.78	12.39	12.91	13.49	15.03
	3H	10.59	11.09	11.72	12.23	13.78	13.27	13.77	14.40	14.91	16.46
	4H	10.86	11.32	12.00	12.45	14.02	13.79	14.25	14.93	15.38	16.95
	6H	10.97	11.37	12.12	12.52	14.08	14.14	14.54	15.29	15.69	17.25
	8H	10.98	11.35	12.12	12.49	14.06	14.25	14.62	15.39	15.76	17.33
	12H	10.94	11.27	12.10	12.42	14.01	14.29	14.63	15.45	15.78	17.36
8H	4H	11.30	11.67	12.44	12.81	14.39	13.90	14.27	15.04	15.41	16.99
	6H	11.55	11.86	12.72	13.04	14.61	14.33	14.64	15.49	15.82	17.39
	8H	11.59	11.86	12.76	13.02	14.62	14.48	14.75	15.65	15.91	17.50
	12H	11.57	11.81	12.75	12.96	14.59	14.57	14.81	15.74	15.96	17.59
12H	4H	11.30	11.63	12.46	12.78	14.37	13.86	14.20	15.02	15.35	16.93
	6H	11.61	11.88	12.78	13.04	14.63	14.33	14.59	15.50	15.75	17.35
	8H	11.67	11.91	12.85	13.07	14.69	14.48	14.71	15.65	15.87	17.50