

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: P935018

Luminaire Tested: SQ4-FA-100U-050D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935018
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-840-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

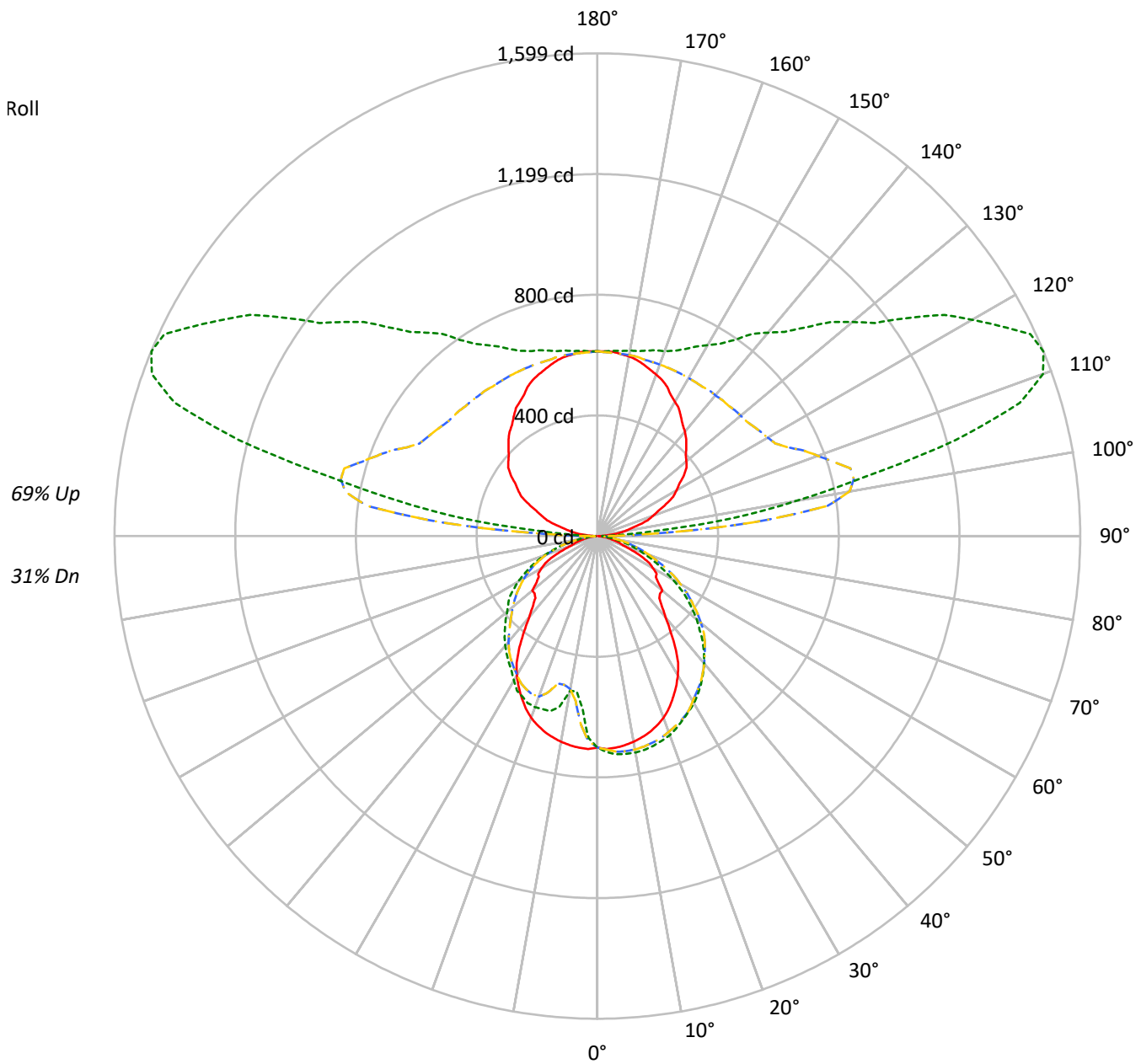
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5787.7 lumens
Efficiency: N/A
Efficacy: 140.5 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: P935018
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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°	6499	6499	6499	6499
5°	6540	6561	6540	5158
10°	6490	6463	6490	4621
15°	6411	6323	6411	5279
20°	6270	6156	6270	5290
25°	5988	5915	5988	5178
30°	5627	5714	5627	4933
35°	5009	5459	5009	4662
40°	4166	5161	4166	4457
45°	3715	4811	3715	4221
50°	3939	4393	3939	3986
55°	3694	3943	3694	3850
60°	3796	3349	3796	3526
65°	3424	2768	3424	3094
70°	2356	2207	2356	2594
75°	2040	1630	2040	1953
80°	1615	1079	1615	1173
85°	878	571	878	485

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5706 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.2	1.1
10°-20°	179.5	3.1
20°-30°	277.5	4.8
30°-40°	331.3	5.7
40°-50°	333.2	5.8
50°-60°	289.9	5.0
60°-70°	205.6	3.6
70°-80°	108.8	1.9
80°-90°	29.4	0.5
90°-100°	298.5	5.2
100°-110°	784.7	13.6
110°-120°	813.7	14.1
120°-130°	652.6	11.3
130°-140°	512.1	8.8
140°-150°	393.1	6.8
150°-160°	283.1	4.9
160°-170°	173.2	3.0
170°-180°	58.5	1.0
0°-30°	520.2	9.0
0°-40°	851.5	14.7
0°-60°	1474.6	25.5
0°-90°	1818.3	31.4
90°-120°	1896.8	32.8
90°-150°	3454.6	59.7
90°-180°	3969.0	68.6
0°-180°	5787.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	700	700	700	700	700	
5°	704	726	704	570	704	67
15°	672	719	672	600	672	189
25°	592	671	592	587	592	272
35°	450	598	450	511	450	278
45°	290	493	290	433	290	232
55°	236	364	236	355	236	217
65°	164	219	164	245	164	157
75°	62	104	62	125	62	65
85°	11	26	11	22	11	14
90°	4	16	4	16	4	4
95°	39	180	39	180	39	44
105°	141	1229	141	1229	141	150
115°	251	1582	251	1582	251	248
125°	349	1260	349	1260	349	310
135°	416	978	416	978	416	322
145°	483	793	483	793	483	303
155°	546	683	546	683	546	251
165°	589	636	589	636	589	166
175°	612	616	612	616	612	58
180°	612	612	612	612	612	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	706.3	706.3	710.3	711.7	711.7	709.7	707.7	709.7	715.6	717.6	716.9
5°	703.7	709.0	716.3	717.6	719.0	718.3	716.9	718.3	724.9	726.2	726.9
7.5°	698.4	708.3	717.6	719.6	721.5	719.6	719.0	720.3	726.9	728.2	728.2
10°	691.8	705.6	716.3	717.6	719.6	717.6	717.6	720.3	726.9	728.2	728.8
12.5°	682.5	701.7	711.7	712.9	715.6	714.9	714.3	716.9	723.6	724.9	724.9
15°	671.8	694.4	703.7	705.0	709.7	708.3	708.3	711.0	718.3	720.3	719.6
17.5°	657.3	685.2	695.7	697.7	701.1	700.4	701.1	703.7	710.3	711.7	712.3
20°	640.7	672.5	685.2	687.2	690.4	690.4	690.4	693.8	700.4	703.1	703.1
22.5°	618.2	659.3	672.5	673.9	677.9	677.9	679.2	683.8	689.7	690.4	690.4
25°	591.7	644.7	655.9	660.0	663.9	665.9	667.9	670.6	672.5	671.8	672.5
27.5°	563.9	626.2	640.7	643.4	648.7	650.7	653.4	654.0	654.6	656.6	655.3
30°	532.7	600.3	622.1	624.8	633.4	634.8	632.1	633.4	636.8	638.1	639.4
32.5°	497.7	561.9	603.0	608.9	616.9	613.0	612.3	614.2	619.6	619.6	620.9
35°	449.9	532.0	585.1	590.4	596.4	591.7	594.4	595.0	598.3	600.3	599.6
37.5°	397.6	506.3	566.5	570.5	575.1	569.2	573.1	575.1	577.8	576.5	576.5
40°	351.1	465.8	544.7	547.4	551.3	546.7	550.6	552.0	553.3	552.0	551.3
42.5°	316.8	421.4	521.5	524.8	522.2	525.4	526.8	529.5	527.4	524.8	524.8
45°	290.2	409.5	496.3	500.2	496.3	501.6	503.6	503.6	497.7	496.3	495.6
47.5°	281.6	385.6	471.1	471.1	469.1	475.7	479.1	474.4	468.5	466.4	466.4
50°	281.0	359.1	436.7	434.0	443.3	451.2	448.0	443.3	438.7	431.4	431.4
52.5°	255.1	326.6	392.2	402.2	416.7	421.4	416.1	411.5	403.5	400.2	397.6
55°	236.5	292.8	351.8	371.7	387.0	392.9	382.9	378.3	366.4	364.5	363.1
57.5°	232.6	243.8	314.8	339.9	358.4	357.9	351.8	343.2	333.3	331.3	330.7
60°	213.4	176.3	275.0	304.8	324.0	322.0	316.8	308.8	299.5	298.2	296.9
62.5°	193.5	127.8	229.9	263.7	290.9	290.2	285.6	273.7	267.1	263.7	261.0
65°	164.3	107.3	163.7	219.3	258.5	259.7	249.8	241.2	233.9	229.9	229.2
67.5°	125.3	87.4	110.7	182.9	227.2	226.0	213.4	209.4	200.1	198.1	194.1
70°	92.8	58.3	76.9	148.4	196.8	193.5	183.6	178.9	170.3	165.7	163.0
72.5°	76.9	47.0	56.3	115.3	165.7	161.6	153.0	147.8	140.5	136.5	133.9
75°	62.2	49.7	43.1	85.5	134.5	131.9	123.9	118.6	112.6	107.3	108.0
77.5°	45.7	46.3	34.5	62.9	106.7	102.8	98.1	91.5	88.8	83.5	83.5
80°	34.5	36.5	25.9	43.1	76.9	76.9	72.9	68.3	63.6	61.0	61.0
82.5°	23.2	23.2	19.2	27.2	52.4	50.4	47.7	46.3	43.8	42.4	42.4
85°	10.6	13.2	12.0	16.6	28.5	29.8	29.8	28.5	27.9	26.5	27.2
87.5°	3.4	5.9	7.3	9.3	14.6	15.2	15.9	15.9	15.9	16.6	16.6
90°	4.1	7.4	10.7	11.5	18.1	26.9	31.2	27.8	20.8	15.6	15.6
92.5°	16.4	44.4	72.3	79.3	111.5	154.4	175.9	154.1	110.7	78.1	75.0
95°	39.4	90.6	141.8	154.5	274.4	434.1	514.1	458.7	348.1	265.1	255.7
97.5°	68.2	113.3	158.5	169.7	369.6	636.1	769.3	734.3	664.3	611.9	594.0
100°	90.4	131.3	172.2	182.5	404.3	700.0	847.8	850.4	855.4	859.3	837.9
102.5°	109.3	147.5	185.6	195.2	420.2	720.1	870.0	914.6	1003.7	1070.5	1052.2
105°	141.4	173.7	206.0	214.1	432.0	722.3	867.6	967.4	1167.2	1317.1	1307.3
107.5°	174.3	204.4	234.6	242.1	434.1	690.1	818.2	957.6	1236.3	1445.3	1447.7
110°	196.4	223.7	250.9	257.7	430.8	661.7	777.1	932.9	1244.5	1478.1	1488.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	218.2	244.1	270.0	276.5	431.0	636.8	739.7	899.2	1218.0	1457.2	1472.9
115°	251.1	275.0	298.9	304.9	434.9	608.3	695.0	848.6	1155.8	1386.2	1407.9
117.5°	283.6	305.3	327.0	332.5	443.0	590.4	664.1	802.8	1080.0	1288.0	1312.1
120°	302.4	322.9	343.3	348.5	449.5	584.4	651.8	778.4	1031.8	1221.8	1245.3
122.5°	321.0	341.7	362.3	367.4	459.0	581.2	642.3	756.3	984.4	1155.6	1178.7
125°	349.4	368.1	386.9	391.6	471.8	578.6	632.0	728.9	922.7	1068.0	1089.4
127.5°	372.3	391.2	410.3	415.1	484.5	577.1	623.4	706.6	873.0	997.8	1015.8
130°	384.6	405.1	425.5	430.7	493.8	578.1	620.2	694.3	842.4	953.4	970.0
132.5°	397.4	417.8	438.3	443.4	501.3	578.6	617.2	683.5	816.1	915.6	930.5
135°	416.3	434.9	453.6	458.2	509.6	578.1	612.4	667.9	778.8	862.1	875.0
137.5°	435.6	454.1	472.5	477.1	521.9	581.6	611.5	658.4	752.3	822.7	833.2
140°	451.6	468.6	485.6	489.9	529.5	582.2	608.6	649.1	730.2	791.1	800.9
142.5°	464.0	479.7	495.4	499.3	535.8	584.3	608.6	644.2	715.4	768.9	777.4
145°	482.8	496.6	510.2	513.7	544.0	584.4	604.6	633.7	691.9	735.6	742.0
147.5°	501.8	515.1	528.4	531.7	556.0	588.4	604.6	627.5	673.3	707.7	713.0
150°	514.1	526.1	538.2	541.2	562.4	590.5	604.6	623.9	662.6	691.6	695.8
152.5°	526.8	535.9	545.1	547.4	566.4	591.8	604.6	621.1	654.1	678.9	682.1
155°	545.8	552.5	559.3	561.0	575.5	594.9	604.6	617.7	644.0	663.6	665.8
157.5°	559.7	566.3	572.8	574.5	584.5	597.8	604.6	614.7	635.2	650.5	652.0
160°	569.2	574.3	579.4	580.6	588.7	599.2	604.6	613.4	630.8	644.0	644.9
162.5°	578.6	582.4	586.3	587.3	593.0	600.7	604.6	612.0	626.7	637.8	638.5
165°	588.8	592.3	595.8	596.7	599.3	602.8	604.6	609.9	620.5	628.4	629.3
167.5°	598.3	600.0	601.7	602.1	604.3	607.1	608.6	612.1	619.0	624.2	624.6
170°	604.6	606.1	607.8	608.2	608.3	608.5	608.6	612.1	619.0	624.2	624.2
172.5°	607.8	608.2	608.5	608.6	608.6	608.6	608.6	611.4	616.8	621.0	620.7
175°	612.4	612.4	612.4	612.4	611.1	609.4	608.6	610.4	613.8	616.4	616.4
177.5°	612.4	612.4	612.4	612.4	611.4	610.1	609.4	610.8	613.5	615.6	615.2
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	718.3	716.3	718.3	716.9	717.6	715.6	709.7	707.7	709.7	711.7	711.7
5°	726.9	725.6	726.9	726.9	726.2	724.9	718.3	716.9	718.3	719.0	717.6
7.5°	729.5	727.6	729.5	728.2	728.2	726.9	720.3	719.0	719.6	721.5	719.6
10°	729.5	727.6	729.5	728.8	728.2	726.9	720.3	717.6	717.6	719.6	717.6
12.5°	726.2	724.9	726.2	724.9	724.9	723.6	716.9	714.3	714.9	715.6	712.9
15°	720.9	719.0	720.9	719.6	720.3	718.3	711.0	708.3	708.3	709.7	705.0
17.5°	712.9	710.3	712.9	712.3	711.7	710.3	703.7	701.1	700.4	701.1	697.7
20°	703.7	701.7	703.7	703.1	703.1	700.4	693.8	690.4	690.4	690.4	687.2
22.5°	689.1	687.2	689.1	690.4	690.4	689.7	683.8	679.2	677.9	677.9	673.9
25°	672.5	670.6	672.5	672.5	671.8	672.5	670.6	667.9	665.9	663.9	660.0
27.5°	656.6	655.3	656.6	655.3	656.6	654.6	654.0	653.4	650.7	648.7	643.4
30°	640.7	639.4	640.7	639.4	638.1	636.8	633.4	632.1	634.8	633.4	624.8
32.5°	620.9	619.6	620.9	620.9	619.6	619.6	614.2	612.3	613.0	616.9	608.9
35°	600.3	598.3	600.3	599.6	600.3	598.3	595.0	594.4	591.7	596.4	590.4
37.5°	576.5	574.5	576.5	576.5	576.5	577.8	575.1	573.1	569.2	575.1	570.5
40°	552.0	549.3	552.0	551.3	552.0	553.3	552.0	550.6	546.7	551.3	547.4
42.5°	524.1	523.4	524.1	524.8	524.8	527.4	529.5	526.8	525.4	522.2	524.8
45°	494.3	493.0	494.3	495.6	496.3	497.7	503.6	503.6	501.6	496.3	500.2
47.5°	462.5	459.2	462.5	466.4	466.4	468.5	474.4	479.1	475.7	469.1	471.1
50°	428.7	429.4	428.7	431.4	431.4	438.7	443.3	448.0	451.2	443.3	434.0
52.5°	395.6	394.9	395.6	397.6	400.2	403.5	411.5	416.1	421.4	416.7	402.2
55°	362.4	363.8	362.4	363.1	364.5	366.4	378.3	382.9	392.9	387.0	371.7
57.5°	329.3	327.3	329.3	330.7	331.3	333.3	343.2	351.8	357.9	358.4	339.9
60°	290.9	288.2	290.9	296.9	298.2	299.5	308.8	316.8	322.0	324.0	304.8
62.5°	257.1	252.4	257.1	261.0	263.7	267.1	273.7	285.6	290.2	290.9	263.7
65°	221.3	219.3	221.3	229.2	229.9	233.9	241.2	249.8	259.7	258.5	219.3
67.5°	188.8	188.8	188.8	194.1	198.1	200.1	209.4	213.4	226.0	227.2	182.9
70°	159.1	158.4	159.1	163.0	165.7	170.3	178.9	183.6	193.5	196.8	148.4
72.5°	130.5	129.8	130.5	133.9	136.5	140.5	147.8	153.0	161.6	165.7	115.3
75°	105.3	104.0	105.3	108.0	107.3	112.6	118.6	123.9	131.9	134.5	85.5
77.5°	80.8	80.8	80.8	83.5	83.5	88.8	91.5	98.1	102.8	106.7	62.9
80°	60.3	59.7	60.3	61.0	61.0	63.6	68.3	72.9	76.9	76.9	43.1
82.5°	42.4	41.1	42.4	42.4	42.4	43.8	46.3	47.7	50.4	52.4	27.2
85°	26.5	26.5	26.5	27.2	26.5	27.9	28.5	29.8	29.8	28.5	16.6
87.5°	17.2	16.6	17.2	16.6	16.6	15.9	15.9	15.9	15.2	14.6	9.3
90°	15.6	15.6	15.6	15.6	15.6	20.8	27.8	31.2	26.9	18.1	11.5
92.5°	62.5	50.1	62.5	75.0	78.1	110.7	154.1	175.9	154.4	111.5	79.3
95°	218.1	180.4	218.1	255.7	265.1	348.1	458.7	514.1	434.1	274.4	154.5
97.5°	522.4	450.8	522.4	594.0	611.9	664.3	734.3	769.3	636.1	369.6	169.7
100°	752.7	667.4	752.7	837.9	859.3	855.4	850.4	847.8	700.0	404.3	182.5
102.5°	979.2	906.2	979.2	1052.2	1070.5	1003.7	914.6	870.0	720.1	420.2	195.2
105°	1268.0	1228.8	1268.0	1307.3	1317.1	1167.2	967.4	867.6	722.3	432.0	214.1
107.5°	1457.2	1466.7	1457.2	1447.7	1445.3	1236.3	957.6	818.2	690.1	434.1	242.1
110°	1529.3	1570.2	1529.3	1488.4	1478.1	1244.5	932.9	777.1	661.7	430.8	257.7



TEST NUMBER: P935018

CATALOG NUMBER: SQ4-FA-100U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1535.7	1598.6	1535.7	1472.9	1457.2	1218.0	899.2	739.7	636.8	431.0	276.5
115°	1495.0	1582.2	1495.0	1407.9	1386.2	1155.8	848.6	695.0	608.3	434.9	304.9
117.5°	1408.7	1505.3	1408.7	1312.1	1288.0	1080.0	802.8	664.1	590.4	443.0	332.5
120°	1339.1	1433.0	1339.1	1245.3	1221.8	1031.8	778.4	651.8	584.4	449.5	348.5
122.5°	1271.4	1363.9	1271.4	1178.7	1155.6	984.4	756.3	642.3	581.2	459.0	367.4
125°	1174.6	1260.0	1174.6	1089.4	1068.0	922.7	728.9	632.0	578.6	471.8	391.6
127.5°	1087.8	1159.7	1087.8	1015.8	997.8	873.0	706.6	623.4	577.1	484.5	415.1
130°	1036.5	1103.0	1036.5	970.0	953.4	842.4	694.3	620.2	578.1	493.8	430.7
132.5°	990.0	1049.6	990.0	930.5	915.6	816.1	683.5	617.2	578.6	501.3	443.4
135°	926.2	977.6	926.2	875.0	862.1	778.8	667.9	612.4	578.1	509.6	458.2
137.5°	875.3	917.3	875.3	833.2	822.7	752.3	658.4	611.5	581.6	521.9	477.1
140°	840.2	879.4	840.2	800.9	791.1	730.2	649.1	608.6	582.2	529.5	489.9
142.5°	811.1	844.9	811.1	777.4	768.9	715.4	644.2	608.6	584.3	535.8	499.3
145°	767.6	793.2	767.6	742.0	735.6	691.9	633.7	604.6	584.4	544.0	513.7
147.5°	734.2	755.3	734.2	713.0	707.7	673.3	627.5	604.6	588.4	556.0	531.7
150°	713.0	730.2	713.0	695.8	691.6	662.6	623.9	604.6	590.5	562.4	541.2
152.5°	695.1	708.1	695.1	682.1	678.9	654.1	621.1	604.6	591.8	566.4	547.4
155°	674.4	683.0	674.4	665.8	663.6	644.0	617.7	604.6	594.9	575.5	561.0
157.5°	658.1	664.1	658.1	652.0	650.5	635.2	614.7	604.6	597.8	584.5	574.5
160°	648.3	651.8	648.3	644.9	644.0	630.8	613.4	604.6	599.2	588.7	580.6
162.5°	641.9	645.2	641.9	638.5	637.8	626.7	612.0	604.6	600.7	593.0	587.3
165°	632.7	636.2	632.7	629.3	628.4	620.5	609.9	604.6	602.8	599.3	596.7
167.5°	626.0	627.5	626.0	624.6	624.2	619.0	612.1	608.6	607.1	604.3	602.1
170°	624.2	624.2	624.2	624.2	624.2	619.0	612.1	608.6	608.5	608.3	608.2
172.5°	619.4	618.1	619.4	620.7	621.0	616.8	611.4	608.6	608.6	608.6	608.6
175°	616.4	616.4	616.4	616.4	616.4	613.8	610.4	608.6	609.4	611.1	612.4
177.5°	613.8	612.4	613.8	615.2	615.6	613.5	610.8	609.4	610.1	611.4	612.4
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4



TEST NUMBER: P935018

CATALOG NUMBER: SQ4-FA-100U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	710.3	706.3	706.3	699.7	697.0	695.1	691.8	681.8	679.2	676.5	680.5
5°	716.3	709.0	703.7	691.8	681.8	677.9	665.2	641.4	625.5	613.5	606.9
7.5°	717.6	708.3	698.4	679.8	655.9	645.4	606.9	563.3	551.3	540.7	534.0
10°	716.3	705.6	691.8	663.9	607.6	589.0	550.6	522.2	514.8	512.9	514.8
12.5°	711.7	701.7	682.5	636.1	557.2	544.7	522.2	505.6	504.3	507.5	525.4
15°	703.7	694.4	671.8	599.0	529.5	520.2	504.3	498.2	505.6	528.8	582.4
17.5°	695.7	685.2	657.3	562.6	508.2	501.6	490.3	502.3	543.3	574.5	592.4
20°	685.2	672.5	640.7	536.1	493.0	487.0	481.7	535.4	566.5	577.8	587.8
22.5°	672.5	659.3	618.2	517.5	477.1	472.5	475.7	554.0	566.5	574.5	583.1
25°	655.9	644.7	591.7	502.9	464.5	459.2	471.8	552.0	559.2	561.2	578.5
27.5°	640.7	626.2	563.9	489.7	449.2	447.3	475.1	543.3	548.6	550.6	569.2
30°	622.1	600.3	532.7	475.7	433.3	432.6	475.7	532.7	531.4	536.7	555.3
32.5°	603.0	561.9	497.7	458.5	418.1	417.4	471.1	516.8	515.5	522.8	536.7
35°	585.1	532.0	449.9	438.7	398.9	399.5	459.8	498.2	498.9	505.6	514.2
37.5°	566.5	506.3	397.6	416.7	380.4	380.4	444.6	481.1	479.8	481.7	493.6
40°	544.7	465.8	351.1	388.3	363.1	361.1	426.0	462.5	457.8	457.2	473.7
42.5°	521.5	421.4	316.8	350.5	343.2	340.6	403.5	440.0	431.4	433.3	454.6
45°	496.3	409.5	290.2	296.2	322.7	320.7	379.0	414.2	408.1	413.5	435.3
47.5°	471.1	385.6	281.6	245.8	300.8	300.2	351.8	389.0	385.6	391.0	414.2
50°	436.7	359.1	281.0	210.7	276.3	278.9	319.4	364.5	364.5	369.1	393.6
52.5°	392.2	326.6	255.1	190.8	247.8	255.8	290.9	343.2	344.5	349.2	371.1
55°	351.8	292.8	236.5	175.6	214.0	231.3	263.0	321.4	324.0	328.6	348.6
57.5°	314.8	243.8	232.6	157.7	182.9	199.5	238.5	300.2	301.4	305.5	324.7
60°	275.0	176.3	213.4	138.5	155.7	168.3	216.0	275.0	279.6	282.3	298.9
62.5°	229.9	127.8	193.5	125.3	142.5	145.1	197.5	251.1	257.1	259.1	269.0
65°	163.7	107.3	164.3	114.0	128.5	129.2	177.5	226.6	231.9	235.2	242.6
67.5°	110.7	87.4	125.3	103.3	118.0	118.6	158.4	198.1	205.4	208.1	212.7
70°	76.9	58.3	92.8	92.1	106.0	107.3	137.8	172.3	178.9	180.9	183.6
72.5°	56.3	47.0	76.9	82.8	93.5	94.7	116.6	143.2	149.8	151.8	153.0
75°	43.1	49.7	62.2	72.2	79.5	80.1	95.4	116.6	121.2	122.6	123.2
77.5°	34.5	46.3	45.7	58.3	64.9	63.6	74.9	90.1	94.1	94.1	94.1
80°	25.9	36.5	34.5	41.8	47.7	46.3	53.6	64.3	65.6	66.9	66.3
82.5°	19.2	23.2	23.2	26.5	31.8	30.5	35.8	41.8	41.8	41.8	43.1
85°	12.0	13.2	10.6	13.9	17.9	17.2	19.9	22.5	23.2	23.2	21.8
87.5°	7.3	5.9	3.4	5.3	7.9	7.9	9.3	10.0	9.3	9.3	9.3
90°	10.7	7.4	4.1	7.4	10.7	11.5	18.1	26.9	31.2	27.8	20.8
92.5°	72.3	44.4	16.4	44.4	72.3	79.3	111.5	154.4	175.9	154.1	110.7
95°	141.8	90.6	39.4	90.6	141.8	154.5	274.4	434.1	514.1	458.7	348.1
97.5°	158.5	113.3	68.2	113.3	158.5	169.7	369.6	636.1	769.3	734.3	664.3
100°	172.2	131.3	90.4	131.3	172.2	182.5	404.3	700.0	847.8	850.4	855.4
102.5°	185.6	147.5	109.3	147.5	185.6	195.2	420.2	720.1	870.0	914.6	1003.7
105°	206.0	173.7	141.4	173.7	206.0	214.1	432.0	722.3	867.6	967.4	1167.2
107.5°	234.6	204.4	174.3	204.4	234.6	242.1	434.1	690.1	818.2	957.6	1236.3
110°	250.9	223.7	196.4	223.7	250.9	257.7	430.8	661.7	777.1	932.9	1244.5



TEST NUMBER: P935018

CATALOG NUMBER: SQ4-FA-100U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	270.0	244.1	218.2	244.1	270.0	276.5	431.0	636.8	739.7	899.2	1218.0
115°	298.9	275.0	251.1	275.0	298.9	304.9	434.9	608.3	695.0	848.6	1155.8
117.5°	327.0	305.3	283.6	305.3	327.0	332.5	443.0	590.4	664.1	802.8	1080.0
120°	343.3	322.9	302.4	322.9	343.3	348.5	449.5	584.4	651.8	778.4	1031.8
122.5°	362.3	341.7	321.0	341.7	362.3	367.4	459.0	581.2	642.3	756.3	984.4
125°	386.9	368.1	349.4	368.1	386.9	391.6	471.8	578.6	632.0	728.9	922.7
127.5°	410.3	391.2	372.3	391.2	410.3	415.1	484.5	577.1	623.4	706.6	873.0
130°	425.5	405.1	384.6	405.1	425.5	430.7	493.8	578.1	620.2	694.3	842.4
132.5°	438.3	417.8	397.4	417.8	438.3	443.4	501.3	578.6	617.2	683.5	816.1
135°	453.6	434.9	416.3	434.9	453.6	458.2	509.6	578.1	612.4	667.9	778.8
137.5°	472.5	454.1	435.6	454.1	472.5	477.1	521.9	581.6	611.5	658.4	752.3
140°	485.6	468.6	451.6	468.6	485.6	489.9	529.5	582.2	608.6	649.1	730.2
142.5°	495.4	479.7	464.0	479.7	495.4	499.3	535.8	584.3	608.6	644.2	715.4
145°	510.2	496.6	482.8	496.6	510.2	513.7	544.0	584.4	604.6	633.7	691.9
147.5°	528.4	515.1	501.8	515.1	528.4	531.7	556.0	588.4	604.6	627.5	673.3
150°	538.2	526.1	514.1	526.1	538.2	541.2	562.4	590.5	604.6	623.9	662.6
152.5°	545.1	535.9	526.8	535.9	545.1	547.4	566.4	591.8	604.6	621.1	654.1
155°	559.3	552.5	545.8	552.5	559.3	561.0	575.5	594.9	604.6	617.7	644.0
157.5°	572.8	566.3	559.7	566.3	572.8	574.5	584.5	597.8	604.6	614.7	635.2
160°	579.4	574.3	569.2	574.3	579.4	580.6	588.7	599.2	604.6	613.4	630.8
162.5°	586.3	582.4	578.6	582.4	586.3	587.3	593.0	600.7	604.6	612.0	626.7
165°	595.8	592.3	588.8	592.3	595.8	596.7	599.3	602.8	604.6	609.9	620.5
167.5°	601.7	600.0	598.3	600.0	601.7	602.1	604.3	607.1	608.6	612.1	619.0
170°	607.8	606.1	604.6	606.1	607.8	608.2	608.3	608.5	608.6	612.1	619.0
172.5°	608.5	608.2	607.8	608.2	608.5	608.6	608.6	608.6	608.6	611.4	616.8
175°	612.4	612.4	612.4	612.4	612.4	612.4	611.1	609.4	608.6	610.4	613.8
177.5°	612.4	612.4	612.4	612.4	612.4	612.4	611.4	610.1	609.4	610.8	613.5
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4



TEST NUMBER: P935018

CATALOG NUMBER: SQ4-FA-100U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	675.9	673.9	676.5	669.3	676.5	673.9	675.9	680.5	676.5	679.2	681.8
5°	593.0	589.7	579.2	570.5	579.2	589.7	593.0	606.9	613.5	625.5	641.4
7.5°	530.1	527.4	524.8	519.5	524.8	527.4	530.1	534.0	540.7	551.3	563.3
10°	516.1	516.8	520.8	520.2	520.8	516.8	516.1	514.8	512.9	514.8	522.2
12.5°	552.0	557.9	579.8	578.5	579.8	557.9	552.0	525.4	507.5	504.3	505.6
15°	593.0	595.0	599.6	600.3	599.6	595.0	593.0	582.4	528.8	505.6	498.2
17.5°	597.0	597.6	601.0	601.0	601.0	597.6	597.0	592.4	574.5	543.3	502.3
20°	593.7	595.0	601.7	603.0	601.7	595.0	593.7	587.8	577.8	566.5	535.4
22.5°	592.4	595.0	600.3	599.6	600.3	595.0	592.4	583.1	574.5	566.5	554.0
25°	585.8	585.8	586.4	587.1	586.4	585.8	585.8	578.5	561.2	559.2	552.0
27.5°	571.9	573.1	577.1	576.5	577.1	573.1	571.9	569.2	550.6	548.6	543.3
30°	559.2	557.9	554.6	552.0	554.6	557.9	559.2	555.3	536.7	531.4	532.7
32.5°	538.1	534.7	531.4	529.5	531.4	534.7	538.1	536.7	522.8	515.5	516.8
35°	512.9	513.6	512.9	510.9	512.9	513.6	512.9	514.2	505.6	498.9	498.2
37.5°	495.0	496.3	495.6	493.0	495.6	496.3	495.0	493.6	481.7	479.8	481.1
40°	476.4	477.1	476.4	474.4	476.4	477.1	476.4	473.7	457.2	457.8	462.5
42.5°	458.5	457.8	455.9	454.6	455.9	457.8	458.5	454.6	433.3	431.4	440.0
45°	438.0	438.7	434.6	432.6	434.6	438.7	438.0	435.3	413.5	408.1	414.2
47.5°	417.4	417.4	414.2	412.1	414.2	417.4	417.4	414.2	391.0	385.6	389.0
50°	395.6	394.9	390.3	389.6	390.3	394.9	395.6	393.6	369.1	364.5	364.5
52.5°	370.4	370.4	371.1	372.4	371.1	370.4	370.4	371.1	349.2	344.5	343.2
55°	348.6	349.2	353.8	355.2	353.8	349.2	348.6	348.6	328.6	324.0	321.4
57.5°	326.0	326.0	329.3	329.3	329.3	326.0	326.0	324.7	305.5	301.4	300.2
60°	300.2	301.4	304.1	303.5	304.1	301.4	300.2	298.9	282.3	279.6	275.0
62.5°	273.0	274.4	275.0	273.7	275.0	274.4	273.0	269.0	259.1	257.1	251.1
65°	244.5	245.8	246.5	245.1	246.5	245.8	244.5	242.6	235.2	231.9	226.6
67.5°	215.4	214.7	214.0	216.7	214.0	214.7	215.4	212.7	208.1	205.4	198.1
70°	185.5	185.5	184.9	186.2	184.9	185.5	185.5	183.6	180.9	178.9	172.3
72.5°	153.7	153.0	155.7	153.7	155.7	153.0	153.7	153.0	151.8	149.8	143.2
75°	122.6	123.9	122.6	124.6	122.6	123.9	122.6	123.2	122.6	121.2	116.6
77.5°	93.5	94.7	93.5	93.5	93.5	94.7	93.5	94.1	94.1	94.1	90.1
80°	66.3	65.6	65.6	64.9	65.6	65.6	66.3	66.3	66.9	65.6	64.3
82.5°	42.4	41.8	41.8	43.1	41.8	41.8	42.4	43.1	41.8	41.8	41.8
85°	23.2	23.8	22.5	22.5	22.5	23.8	23.2	21.8	23.2	23.2	22.5
87.5°	8.6	7.9	7.9	7.9	7.9	7.9	8.6	9.3	9.3	9.3	10.0
90°	15.6	15.6	15.6	15.6	15.6	15.6	15.6	20.8	27.8	31.2	26.9
92.5°	78.1	75.0	62.5	50.1	62.5	75.0	78.1	110.7	154.1	175.9	154.4
95°	265.1	255.7	218.1	180.4	218.1	255.7	265.1	348.1	458.7	514.1	434.1
97.5°	611.9	594.0	522.4	450.8	522.4	594.0	611.9	664.3	734.3	769.3	636.1
100°	859.3	837.9	752.7	667.4	752.7	837.9	859.3	855.4	850.4	847.8	700.0
102.5°	1070.5	1052.2	979.2	906.2	979.2	1052.2	1070.5	1003.7	914.6	870.0	720.1
105°	1317.1	1307.3	1268.0	1228.8	1268.0	1307.3	1317.1	1167.2	967.4	867.6	722.3
107.5°	1445.3	1447.7	1457.2	1466.7	1457.2	1447.7	1445.3	1236.3	957.6	818.2	690.1
110°	1478.1	1488.4	1529.3	1570.2	1529.3	1488.4	1478.1	1244.5	932.9	777.1	661.7



TEST NUMBER: P935018

CATALOG NUMBER: SQ4-FA-100U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1457.2	1472.9	1535.7	1598.6	1535.7	1472.9	1457.2	1218.0	899.2	739.7	636.8
115°	1386.2	1407.9	1495.0	1582.2	1495.0	1407.9	1386.2	1155.8	848.6	695.0	608.3
117.5°	1288.0	1312.1	1408.7	1505.3	1408.7	1312.1	1288.0	1080.0	802.8	664.1	590.4
120°	1221.8	1245.3	1339.1	1433.0	1339.1	1245.3	1221.8	1031.8	778.4	651.8	584.4
122.5°	1155.6	1178.7	1271.4	1363.9	1271.4	1178.7	1155.6	984.4	756.3	642.3	581.2
125°	1068.0	1089.4	1174.6	1260.0	1174.6	1089.4	1068.0	922.7	728.9	632.0	578.6
127.5°	997.8	1015.8	1087.8	1159.7	1087.8	1015.8	997.8	873.0	706.6	623.4	577.1
130°	953.4	970.0	1036.5	1103.0	1036.5	970.0	953.4	842.4	694.3	620.2	578.1
132.5°	915.6	930.5	990.0	1049.6	990.0	930.5	915.6	816.1	683.5	617.2	578.6
135°	862.1	875.0	926.2	977.6	926.2	875.0	862.1	778.8	667.9	612.4	578.1
137.5°	822.7	833.2	875.3	917.3	875.3	833.2	822.7	752.3	658.4	611.5	581.6
140°	791.1	800.9	840.2	879.4	840.2	800.9	791.1	730.2	649.1	608.6	582.2
142.5°	768.9	777.4	811.1	844.9	811.1	777.4	768.9	715.4	644.2	608.6	584.3
145°	735.6	742.0	767.6	793.2	767.6	742.0	735.6	691.9	633.7	604.6	584.4
147.5°	707.7	713.0	734.2	755.3	734.2	713.0	707.7	673.3	627.5	604.6	588.4
150°	691.6	695.8	713.0	730.2	713.0	695.8	691.6	662.6	623.9	604.6	590.5
152.5°	678.9	682.1	695.1	708.1	695.1	682.1	678.9	654.1	621.1	604.6	591.8
155°	663.6	665.8	674.4	683.0	674.4	665.8	663.6	644.0	617.7	604.6	594.9
157.5°	650.5	652.0	658.1	664.1	658.1	652.0	650.5	635.2	614.7	604.6	597.8
160°	644.0	644.9	648.3	651.8	648.3	644.9	644.0	630.8	613.4	604.6	599.2
162.5°	637.8	638.5	641.9	645.2	641.9	638.5	637.8	626.7	612.0	604.6	600.7
165°	628.4	629.3	632.7	636.2	632.7	629.3	628.4	620.5	609.9	604.6	602.8
167.5°	624.2	624.6	626.0	627.5	626.0	624.6	624.2	619.0	612.1	608.6	607.1
170°	624.2	624.2	624.2	624.2	624.2	624.2	624.2	619.0	612.1	608.6	608.5
172.5°	621.0	620.7	619.4	618.1	619.4	620.7	621.0	616.8	611.4	608.6	608.6
175°	616.4	616.4	616.4	616.4	616.4	616.4	616.4	613.8	610.4	608.6	609.4
177.5°	615.6	615.2	613.8	612.4	613.8	615.2	615.6	613.5	610.8	609.4	610.1
180°	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4	612.4



TEST NUMBER: P935018
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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	700.4	700.4	700.4	700.4	700.4
2.5°	691.8	695.1	697.0	699.7	706.3
5°	665.2	677.9	681.8	691.8	703.7
7.5°	606.9	645.4	655.9	679.8	698.4
10°	550.6	589.0	607.6	663.9	691.8
12.5°	522.2	544.7	557.2	636.1	682.5
15°	504.3	520.2	529.5	599.0	671.8
17.5°	490.3	501.6	508.2	562.6	657.3
20°	481.7	487.0	493.0	536.1	640.7
22.5°	475.7	472.5	477.1	517.5	618.2
25°	471.8	459.2	464.5	502.9	591.7
27.5°	475.1	447.3	449.2	489.7	563.9
30°	475.7	432.6	433.3	475.7	532.7
32.5°	471.1	417.4	418.1	458.5	497.7
35°	459.8	399.5	398.9	438.7	449.9
37.5°	444.6	380.4	380.4	416.7	397.6
40°	426.0	361.1	363.1	388.3	351.1
42.5°	403.5	340.6	343.2	350.5	316.8
45°	379.0	320.7	322.7	296.2	290.2
47.5°	351.8	300.2	300.8	245.8	281.6
50°	319.4	278.9	276.3	210.7	281.0
52.5°	290.9	255.8	247.8	190.8	255.1
55°	263.0	231.3	214.0	175.6	236.5
57.5°	238.5	199.5	182.9	157.7	232.6
60°	216.0	168.3	155.7	138.5	213.4
62.5°	197.5	145.1	142.5	125.3	193.5
65°	177.5	129.2	128.5	114.0	164.3
67.5°	158.4	118.6	118.0	103.3	125.3
70°	137.8	107.3	106.0	92.1	92.8
72.5°	116.6	94.7	93.5	82.8	76.9
75°	95.4	80.1	79.5	72.2	62.2
77.5°	74.9	63.6	64.9	58.3	45.7
80°	53.6	46.3	47.7	41.8	34.5
82.5°	35.8	30.5	31.8	26.5	23.2
85°	19.9	17.2	17.9	13.9	10.6
87.5°	9.3	7.9	7.9	5.3	3.4
90°	18.1	11.5	10.7	7.4	4.1
92.5°	111.5	79.3	72.3	44.4	16.4
95°	274.4	154.5	141.8	90.6	39.4
97.5°	369.6	169.7	158.5	113.3	68.2
100°	404.3	182.5	172.2	131.3	90.4
102.5°	420.2	195.2	185.6	147.5	109.3
105°	432.0	214.1	206.0	173.7	141.4
107.5°	434.1	242.1	234.6	204.4	174.3
110°	430.8	257.7	250.9	223.7	196.4



TEST NUMBER: P935018

CATALOG NUMBER: SQ4-FA-100U-050D-840-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	431.0	276.5	270.0	244.1	218.2
115°	434.9	304.9	298.9	275.0	251.1
117.5°	443.0	332.5	327.0	305.3	283.6
120°	449.5	348.5	343.3	322.9	302.4
122.5°	459.0	367.4	362.3	341.7	321.0
125°	471.8	391.6	386.9	368.1	349.4
127.5°	484.5	415.1	410.3	391.2	372.3
130°	493.8	430.7	425.5	405.1	384.6
132.5°	501.3	443.4	438.3	417.8	397.4
135°	509.6	458.2	453.6	434.9	416.3
137.5°	521.9	477.1	472.5	454.1	435.6
140°	529.5	489.9	485.6	468.6	451.6
142.5°	535.8	499.3	495.4	479.7	464.0
145°	544.0	513.7	510.2	496.6	482.8
147.5°	556.0	531.7	528.4	515.1	501.8
150°	562.4	541.2	538.2	526.1	514.1
152.5°	566.4	547.4	545.1	535.9	526.8
155°	575.5	561.0	559.3	552.5	545.8
157.5°	584.5	574.5	572.8	566.3	559.7
160°	588.7	580.6	579.4	574.3	569.2
162.5°	593.0	587.3	586.3	582.4	578.6
165°	599.3	596.7	595.8	592.3	588.8
167.5°	604.3	602.1	601.7	600.0	598.3
170°	608.3	608.2	607.8	606.1	604.6
172.5°	608.6	608.6	608.5	608.2	607.8
175°	611.1	612.4	612.4	612.4	612.4
177.5°	611.4	612.4	612.4	612.4	612.4
180°	612.4	612.4	612.4	612.4	612.4



TEST NUMBER: P935018
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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	9.27	9.99	10.38	11.09	12.60	12.07	12.79	13.17	13.88	15.40
	3H	9.74	10.38	10.85	11.49	13.02	13.39	14.04	14.51	15.14	16.67
	4H	9.92	10.53	11.04	11.64	13.18	13.82	14.43	14.95	15.54	17.08
	6H	10.03	10.59	11.16	11.70	13.25	14.09	14.65	15.22	15.76	17.31
	8H	10.03	10.56	11.16	11.69	13.23	14.16	14.69	15.29	15.82	17.36
	12H	10.00	10.50	11.13	11.62	13.19	14.19	14.69	15.33	15.81	17.38
4H	2H	10.28	10.89	11.41	12.00	13.53	12.46	13.07	13.59	14.18	15.72
	3H	11.29	11.80	12.43	12.93	14.48	13.95	14.45	15.08	15.59	17.14
	4H	11.56	12.03	12.70	13.15	14.72	14.46	14.93	15.60	16.05	17.62
	6H	11.68	12.08	12.82	13.22	14.78	14.81	15.21	15.95	16.35	17.91
	8H	11.68	12.05	12.82	13.19	14.77	14.91	15.28	16.05	16.42	17.99
	12H	11.64	11.98	12.80	13.13	14.71	14.95	15.29	16.11	16.44	18.02
8H	4H	12.00	12.37	13.14	13.51	15.09	14.57	14.95	15.72	16.08	17.66
	6H	12.25	12.56	13.42	13.74	15.32	15.00	15.30	16.16	16.48	18.06
	8H	12.30	12.56	13.47	13.72	15.32	15.14	15.41	16.31	16.57	18.16
	12H	12.27	12.51	13.45	13.67	15.29	15.23	15.46	16.40	16.62	18.25
12H	4H	12.00	12.33	13.16	13.48	15.07	14.53	14.87	15.69	16.02	17.60
	6H	12.31	12.58	13.48	13.74	15.33	14.99	15.26	16.16	16.42	18.01
	8H	12.37	12.61	13.55	13.76	15.39	15.14	15.38	16.32	16.53	18.16