

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: P934623

Luminaire Tested: SQ4-FA-075U-050D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934623
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-075U-050D-927-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

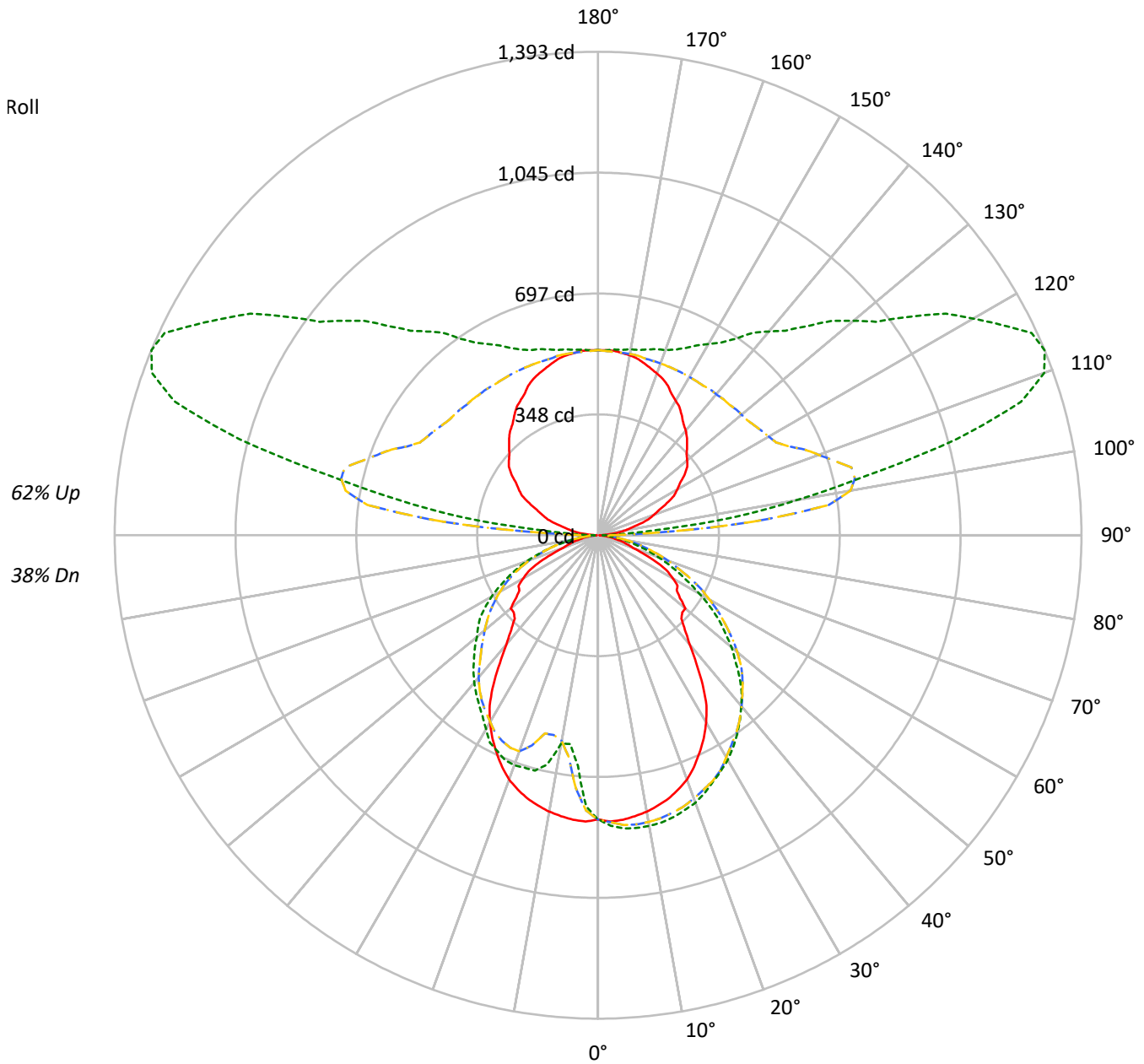
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5583.3 lumens
Efficiency: N/A
Efficacy: 108.2 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): 51.6
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: P934623
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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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27				27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20				20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11				11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10				10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5065	5065	5065	5065
5°	5101	5113	5101	4020
10°	5065	5036	5065	3601
15°	5008	4928	5008	4114
20°	4902	4798	4902	4123
25°	4685	4609	4685	4036
30°	4406	4453	4406	3844
35°	3926	4255	3926	3633
40°	3270	4022	3270	3474
45°	2920	3749	2920	3290
50°	3099	3424	3099	3107
55°	2913	3073	2913	3000
60°	2999	2610	2999	2747
65°	2715	2158	2715	2412
70°	1875	1719	1875	2022
75°	1638	1271	1638	1522
80°	1312	840	1312	915
85°	739	445	739	378

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4478 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	1.3
10°-20°	209.8	3.8
20°-30°	324.4	5.8
30°-40°	387.2	6.9
40°-50°	389.5	7.0
50°-60°	338.9	6.1
60°-70°	240.3	4.3
70°-80°	127.1	2.3
80°-90°	33.7	0.6
90°-100°	260.0	4.7
100°-110°	683.7	12.2
110°-120°	708.9	12.7
120°-130°	568.6	10.2
130°-140°	446.2	8.0
140°-150°	342.4	6.1
150°-160°	246.6	4.4
160°-170°	150.9	2.7
170°-180°	51.0	0.9
0°-30°	608.1	10.9
0°-40°	995.4	17.8
0°-60°	1723.8	30.9
0°-90°	2124.9	38.1
90°-120°	1652.6	29.6
90°-150°	3009.8	53.9
90°-180°	3458.0	61.9
0°-180°	5583.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	819	819	819	819	819	
5°	823	848	823	667	823	78
15°	786	840	786	702	786	221
25°	692	784	692	686	692	318
35°	526	700	526	597	526	325
45°	339	576	339	506	339	272
55°	276	425	276	415	276	254
65°	192	256	192	287	192	184
75°	73	122	73	146	73	77
85°	12	31	12	26	12	17
90°	4	14	4	14	4	3
95°	34	157	34	157	34	38
105°	123	1070	123	1070	123	131
115°	219	1378	219	1378	219	216
125°	304	1098	304	1098	304	270
135°	363	852	363	852	363	281
145°	421	691	421	691	421	264
155°	476	595	476	595	476	218
165°	513	554	513	554	513	145
175°	534	537	534	537	534	51
180°	534	534	534	534	534	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	825.7	825.7	830.4	831.9	831.9	829.6	827.3	829.6	836.6	838.9	838.1
5°	822.6	828.8	837.4	838.9	840.5	839.7	838.1	839.7	847.4	849.0	849.8
7.5°	816.4	828.1	838.9	841.2	843.5	841.2	840.5	842.0	849.8	851.3	851.3
10°	808.7	825.0	837.4	838.9	841.2	838.9	838.9	842.0	849.8	851.3	852.1
12.5°	797.9	820.3	831.9	833.4	836.6	835.8	835.0	838.1	845.8	847.4	847.4
15°	785.5	811.8	822.6	824.2	829.6	828.1	828.1	831.1	839.7	842.0	841.2
17.5°	768.4	801.0	813.4	815.7	819.5	818.7	819.5	822.6	830.4	831.9	832.7
20°	749.1	786.2	801.0	803.3	807.1	807.1	807.1	811.0	818.7	821.8	821.8
22.5°	722.7	770.7	786.2	787.8	792.4	792.4	793.9	799.4	806.3	807.1	807.1
25°	691.7	753.7	766.8	771.5	776.2	778.5	780.8	783.9	786.2	785.5	786.2
27.5°	659.2	732.0	749.1	752.1	758.4	760.7	763.8	764.5	765.3	767.6	766.1
30°	622.8	701.8	727.3	730.4	740.5	742.0	739.0	740.5	744.4	746.0	747.5
32.5°	581.7	656.9	704.9	711.9	721.2	716.5	715.7	718.0	724.3	724.3	725.8
35°	526.0	622.0	684.0	690.2	697.2	691.7	694.8	695.6	699.5	701.8	701.0
37.5°	464.8	591.8	662.3	666.9	672.4	665.4	670.1	672.4	675.4	673.9	673.9
40°	410.6	544.5	636.7	639.8	644.5	639.0	643.7	645.3	646.8	645.3	644.5
42.5°	370.3	492.6	609.6	613.5	610.4	614.2	615.8	618.9	616.6	613.5	613.5
45°	339.3	478.7	580.2	584.8	580.2	586.4	588.7	588.7	581.7	580.2	579.4
47.5°	329.2	450.8	550.8	550.8	548.4	556.2	560.0	554.6	547.6	545.3	545.3
50°	328.4	419.8	510.4	507.4	518.2	527.5	523.6	518.2	512.8	504.3	504.3
52.5°	298.2	381.8	458.5	470.2	487.3	492.6	486.5	481.0	471.7	467.9	464.8
55°	276.5	342.3	411.3	434.6	452.4	459.3	447.8	442.3	428.4	426.0	424.5
57.5°	271.9	285.1	367.9	397.4	419.0	418.3	411.3	401.2	389.6	387.3	386.5
60°	249.4	206.1	321.5	356.4	378.8	376.5	370.3	361.0	350.1	348.6	347.0
62.5°	226.1	149.5	268.8	308.3	340.0	339.3	333.9	319.9	312.2	308.3	305.2
65°	192.1	125.5	191.3	256.4	302.1	303.6	292.1	282.0	273.4	268.8	268.0
67.5°	146.4	102.3	129.4	213.8	265.7	264.1	249.4	244.8	233.9	231.6	227.0
70°	108.4	68.1	89.9	173.5	230.1	226.1	214.6	209.1	199.0	193.7	190.6
72.5°	89.9	55.0	65.8	134.8	193.7	189.0	178.9	172.7	164.2	159.5	156.5
75°	72.8	58.1	50.4	99.9	157.2	154.2	144.8	138.7	131.7	125.5	126.3
77.5°	53.4	54.2	40.3	73.6	124.7	120.0	114.7	106.9	103.8	97.6	97.6
80°	40.3	42.6	30.2	50.4	89.9	89.9	85.2	79.8	74.4	71.3	71.3
82.5°	27.1	27.1	22.5	31.7	61.2	58.9	55.7	54.2	51.1	49.6	49.6
85°	12.4	15.5	13.9	19.3	33.3	34.9	34.9	33.3	32.6	31.0	31.7
87.5°	3.8	7.0	8.5	10.9	17.0	17.8	18.6	18.6	18.6	19.3	19.3
90°	3.5	6.4	9.3	10.0	15.7	23.3	27.2	24.2	18.2	13.6	13.6
92.5°	14.3	38.7	63.0	69.1	97.1	134.5	153.2	134.3	96.4	68.0	65.3
95°	34.3	78.9	123.4	134.6	239.0	378.3	447.9	399.7	303.2	230.9	222.8
97.5°	59.4	98.7	138.0	147.8	322.0	554.2	670.3	639.8	578.9	533.1	517.5
100°	78.8	114.4	150.1	159.0	352.2	609.8	738.7	740.9	745.4	748.7	730.1
102.5°	95.2	128.5	161.8	170.1	366.1	627.3	758.0	796.8	874.5	932.7	916.8
105°	123.2	151.4	179.6	186.6	376.3	629.3	755.8	842.8	1016.9	1147.5	1139.0
107.5°	151.8	178.1	204.4	210.9	378.2	601.3	712.9	834.3	1077.2	1259.3	1261.3
110°	171.2	194.9	218.5	224.5	375.3	576.5	677.1	812.8	1084.3	1287.9	1296.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	190.1	212.7	235.3	240.9	375.5	554.8	644.5	783.4	1061.2	1269.6	1283.3
115°	218.8	239.6	260.4	265.7	378.9	529.9	605.5	739.3	1006.9	1207.7	1226.6
117.5°	247.0	266.0	284.9	289.7	386.0	514.4	578.6	699.4	940.9	1122.1	1143.1
120°	263.5	281.4	299.1	303.6	391.7	509.1	567.9	678.2	898.9	1064.4	1084.9
122.5°	279.7	297.6	315.6	320.1	399.9	506.4	559.6	659.0	857.7	1006.8	1026.9
125°	304.3	320.7	337.1	341.2	411.0	504.1	550.7	635.1	804.0	930.5	949.1
127.5°	324.4	341.0	357.4	361.6	422.1	502.8	543.2	615.6	760.6	869.3	885.0
130°	335.1	353.0	370.8	375.2	430.3	503.7	540.3	604.8	733.9	830.7	845.2
132.5°	346.2	364.1	381.8	386.3	436.8	504.1	537.8	595.5	711.1	797.7	810.7
135°	362.7	378.9	395.2	399.2	444.0	503.7	533.5	581.8	678.6	751.1	762.3
137.5°	379.5	395.5	411.6	415.6	454.7	506.7	532.8	573.6	655.4	716.8	726.0
140°	393.5	408.3	423.1	426.8	461.3	507.3	530.2	565.6	636.3	689.2	697.8
142.5°	404.2	418.0	431.7	435.0	466.8	509.0	530.2	561.3	623.3	669.9	677.3
145°	420.7	432.7	444.5	447.5	473.9	509.1	526.7	552.1	602.8	640.9	646.4
147.5°	437.1	448.8	460.4	463.3	484.4	512.6	526.7	546.6	586.6	616.5	621.2
150°	447.9	458.4	468.9	471.5	490.0	514.4	526.7	543.5	577.3	602.6	606.4
152.5°	459.0	467.0	474.9	476.9	493.5	515.6	526.7	541.1	569.9	591.5	594.4
155°	475.5	481.3	487.3	488.7	501.3	518.2	526.7	538.2	561.1	578.3	580.1
157.5°	487.6	493.4	499.1	500.6	509.3	520.9	526.7	535.6	553.4	566.8	568.1
160°	495.9	500.3	504.8	505.9	512.8	522.1	526.7	534.3	549.5	561.0	561.8
162.5°	504.1	507.5	510.8	511.7	516.7	523.4	526.7	533.1	546.0	555.7	556.4
165°	513.1	516.1	519.1	519.9	522.1	525.1	526.7	531.3	540.5	547.5	548.2
167.5°	521.3	522.8	524.1	524.5	526.4	529.0	530.2	533.2	539.3	543.9	544.2
170°	526.7	528.1	529.5	529.9	530.0	530.1	530.2	533.2	539.3	543.9	543.9
172.5°	529.5	529.8	530.1	530.2	530.2	530.2	530.2	532.6	537.4	541.0	540.7
175°	533.5	533.5	533.5	533.5	532.4	530.9	530.2	531.8	534.8	537.1	537.1
177.5°	533.5	533.5	533.5	533.5	532.6	531.5	531.0	532.2	534.6	536.4	536.1
180°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	839.7	837.4	839.7	838.1	838.9	836.6	829.6	827.3	829.6	831.9	831.9
5°	849.8	848.2	849.8	849.8	849.0	847.4	839.7	838.1	839.7	840.5	838.9
7.5°	852.9	850.5	852.9	851.3	851.3	849.8	842.0	840.5	841.2	843.5	841.2
10°	852.9	850.5	852.9	852.1	851.3	849.8	842.0	838.9	838.9	841.2	838.9
12.5°	849.0	847.4	849.0	847.4	847.4	845.8	838.1	835.0	835.8	836.6	833.4
15°	842.8	840.5	842.8	841.2	842.0	839.7	831.1	828.1	828.1	829.6	824.2
17.5°	833.4	830.4	833.4	832.7	831.9	830.4	822.6	819.5	818.7	819.5	815.7
20°	822.6	820.3	822.6	821.8	821.8	818.7	811.0	807.1	807.1	807.1	803.3
22.5°	805.6	803.3	805.6	807.1	807.1	806.3	799.4	793.9	792.4	792.4	787.8
25°	786.2	783.9	786.2	786.2	785.5	786.2	783.9	780.8	778.5	776.2	771.5
27.5°	767.6	766.1	767.6	766.1	767.6	765.3	764.5	763.8	760.7	758.4	752.1
30°	749.1	747.5	749.1	747.5	746.0	744.4	740.5	739.0	742.0	740.5	730.4
32.5°	725.8	724.3	725.8	725.8	724.3	724.3	718.0	715.7	716.5	721.2	711.9
35°	701.8	699.5	701.8	701.0	701.8	699.5	695.6	694.8	691.7	697.2	690.2
37.5°	673.9	671.6	673.9	673.9	673.9	675.4	672.4	670.1	665.4	672.4	666.9
40°	645.3	642.2	645.3	644.5	645.3	646.8	645.3	643.7	639.0	644.5	639.8
42.5°	612.7	611.9	612.7	613.5	613.5	616.6	618.9	615.8	614.2	610.4	613.5
45°	577.9	576.3	577.9	579.4	580.2	581.7	588.7	588.7	586.4	580.2	584.8
47.5°	540.7	536.8	540.7	545.3	545.3	547.6	554.6	560.0	556.2	548.4	550.8
50°	501.2	502.0	501.2	504.3	504.3	512.8	518.2	523.6	527.5	518.2	507.4
52.5°	462.5	461.7	462.5	464.8	467.9	471.7	481.0	486.5	492.6	487.3	470.2
55°	423.7	425.3	423.7	424.5	426.0	428.4	442.3	447.8	459.3	452.4	434.6
57.5°	385.0	382.7	385.0	386.5	387.3	389.6	401.2	411.3	418.3	419.0	397.4
60°	340.0	337.0	340.0	347.0	348.6	350.1	361.0	370.3	376.5	378.8	356.4
62.5°	300.5	295.1	300.5	305.2	308.3	312.2	319.9	333.9	339.3	340.0	308.3
65°	258.7	256.4	258.7	268.0	268.8	273.4	282.0	292.1	303.6	302.1	256.4
67.5°	220.8	220.8	220.8	227.0	231.6	233.9	244.8	249.4	264.1	265.7	213.8
70°	185.9	185.1	185.9	190.6	193.7	199.0	209.1	214.6	226.1	230.1	173.5
72.5°	152.6	151.8	152.6	156.5	159.5	164.2	172.7	178.9	189.0	193.7	134.8
75°	123.2	121.6	123.2	126.3	125.5	131.7	138.7	144.8	154.2	157.2	99.9
77.5°	94.5	94.5	94.5	97.6	97.6	103.8	106.9	114.7	120.0	124.7	73.6
80°	70.5	69.7	70.5	71.3	71.3	74.4	79.8	85.2	89.9	89.9	50.4
82.5°	49.6	48.0	49.6	49.6	49.6	51.1	54.2	55.7	58.9	61.2	31.7
85°	31.0	31.0	31.0	31.7	31.0	32.6	33.3	34.9	34.9	33.3	19.3
87.5°	20.2	19.3	20.2	19.3	19.3	18.6	18.6	18.6	17.8	17.0	10.9
90°	13.6	13.6	13.6	13.6	13.6	18.2	24.2	27.2	23.3	15.7	10.0
92.5°	54.4	43.7	54.4	65.3	68.0	96.4	134.3	153.2	134.5	97.1	69.1
95°	190.0	157.2	190.0	222.8	230.9	303.2	399.7	447.9	378.3	239.0	134.6
97.5°	455.1	392.8	455.1	517.5	533.1	578.9	639.8	670.3	554.2	322.0	147.8
100°	655.7	581.4	655.7	730.1	748.7	745.4	740.9	738.7	609.8	352.2	159.0
102.5°	853.2	789.5	853.2	916.8	932.7	874.5	796.8	758.0	627.3	366.1	170.1
105°	1104.7	1070.5	1104.7	1139.0	1147.5	1016.9	842.8	755.8	629.3	376.3	186.6
107.5°	1269.6	1277.8	1269.6	1261.3	1259.3	1077.2	834.3	712.9	601.3	378.2	210.9
110°	1332.4	1368.1	1332.4	1296.8	1287.9	1084.3	812.8	677.1	576.5	375.3	224.5



TEST NUMBER: P934623

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1338.0	1392.8	1338.0	1283.3	1269.6	1061.2	783.4	644.5	554.8	375.5	240.9
115°	1302.5	1378.5	1302.5	1226.6	1207.7	1006.9	739.3	605.5	529.9	378.9	265.7
117.5°	1227.3	1311.5	1227.3	1143.1	1122.1	940.9	699.4	578.6	514.4	386.0	289.7
120°	1166.7	1248.5	1166.7	1084.9	1064.4	898.9	678.2	567.9	509.1	391.7	303.6
122.5°	1107.6	1188.3	1107.6	1026.9	1006.8	857.7	659.0	559.6	506.4	399.9	320.1
125°	1023.5	1097.8	1023.5	949.1	930.5	804.0	635.1	550.7	504.1	411.0	341.2
127.5°	947.7	1010.4	947.7	885.0	869.3	760.6	615.6	543.2	502.8	422.1	361.6
130°	903.1	961.0	903.1	845.2	830.7	733.9	604.8	540.3	503.7	430.3	375.2
132.5°	862.6	914.5	862.6	810.7	797.7	711.1	595.5	537.8	504.1	436.8	386.3
135°	807.0	851.8	807.0	762.3	751.1	678.6	581.8	533.5	503.7	444.0	399.2
137.5°	762.5	799.2	762.5	726.0	716.8	655.4	573.6	532.8	506.7	454.7	415.6
140°	732.0	766.2	732.0	697.8	689.2	636.3	565.6	530.2	507.3	461.3	426.8
142.5°	706.7	736.1	706.7	677.3	669.9	623.3	561.3	530.2	509.0	466.8	435.0
145°	668.7	691.0	668.7	646.4	640.9	602.8	552.1	526.7	509.1	473.9	447.5
147.5°	639.6	658.0	639.6	621.2	616.5	586.6	546.6	526.7	512.6	484.4	463.3
150°	621.3	636.3	621.3	606.4	602.6	577.3	543.5	526.7	514.4	490.0	471.5
152.5°	605.6	616.9	605.6	594.4	591.5	569.9	541.1	526.7	515.6	493.5	476.9
155°	587.6	595.1	587.6	580.1	578.3	561.1	538.2	526.7	518.2	501.3	488.7
157.5°	573.3	578.6	573.3	568.1	566.8	553.4	535.6	526.7	520.9	509.3	500.6
160°	564.8	567.9	564.8	561.8	561.0	549.5	534.3	526.7	522.1	512.8	505.9
162.5°	559.3	562.1	559.3	556.4	555.7	546.0	533.1	526.7	523.4	516.7	511.7
165°	551.2	554.2	551.2	548.2	547.5	540.5	531.3	526.7	525.1	522.1	519.9
167.5°	545.5	546.7	545.5	544.2	543.9	539.3	533.2	530.2	529.0	526.4	524.5
170°	543.9	543.9	543.9	543.9	543.9	539.3	533.2	530.2	530.1	530.0	529.9
172.5°	539.6	538.5	539.6	540.7	541.0	537.4	532.6	530.2	530.2	530.2	530.2
175°	537.1	537.1	537.1	537.1	537.1	534.8	531.8	530.2	530.9	532.4	533.5
177.5°	534.8	533.5	534.8	536.1	536.4	534.6	532.2	531.0	531.5	532.6	533.5
180°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5



TEST NUMBER: P934623
 CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	830.4	825.7	825.7	818.0	814.9	812.6	808.7	797.1	793.9	790.9	795.5
5°	837.4	828.8	822.6	808.7	797.1	792.4	777.7	749.8	731.2	717.3	709.6
7.5°	838.9	828.1	816.4	794.7	766.8	754.4	709.6	658.4	644.5	632.1	624.3
10°	837.4	825.0	808.7	776.2	710.3	688.6	643.7	610.4	601.8	599.5	601.8
12.5°	831.9	820.3	797.9	743.6	651.4	636.7	610.4	591.1	589.4	593.4	614.2
15°	822.6	811.8	785.5	700.2	618.9	608.1	589.4	582.5	591.1	618.2	680.9
17.5°	813.4	801.0	768.4	657.7	594.1	586.4	573.2	587.1	635.2	671.6	692.5
20°	801.0	786.2	749.1	626.6	576.3	569.3	563.1	625.9	662.3	675.4	687.1
22.5°	786.2	770.7	722.7	605.0	557.7	552.3	556.2	647.6	662.3	671.6	681.7
25°	766.8	753.7	691.7	587.9	543.0	536.8	551.6	645.3	653.7	656.1	676.2
27.5°	749.1	732.0	659.2	572.4	525.2	522.8	555.4	635.2	641.4	643.7	665.4
30°	727.3	701.8	622.8	556.2	506.6	505.8	556.2	622.8	621.2	627.4	649.1
32.5°	704.9	656.9	581.7	536.0	488.8	488.0	550.8	604.2	602.7	611.1	627.4
35°	684.0	622.0	526.0	512.8	466.3	467.1	537.5	582.5	583.3	591.1	601.1
37.5°	662.3	591.8	464.8	487.3	444.6	444.6	519.8	562.3	560.8	563.1	577.1
40°	636.7	544.5	410.6	453.9	424.5	422.2	498.0	540.7	535.2	534.5	553.9
42.5°	609.6	492.6	370.3	409.8	401.2	398.2	471.7	514.4	504.3	506.6	531.4
45°	580.2	478.7	339.3	346.3	377.2	374.9	443.1	484.1	477.2	483.3	508.9
47.5°	550.8	450.8	329.2	287.4	351.7	350.9	411.3	454.7	450.8	457.0	484.1
50°	510.4	419.8	328.4	246.3	323.0	326.1	373.4	426.0	426.0	431.4	460.2
52.5°	458.5	381.8	298.2	223.1	289.7	299.0	340.0	401.2	402.8	408.3	433.7
55°	411.3	342.3	276.5	205.3	250.2	270.3	307.5	375.7	378.8	384.2	407.4
57.5°	367.9	285.1	271.9	184.3	213.8	233.2	278.9	350.9	352.4	357.1	379.5
60°	321.5	206.1	249.4	161.9	182.0	196.7	252.5	321.5	326.9	329.9	349.3
62.5°	268.8	149.5	226.1	146.4	166.6	169.6	230.8	293.6	300.5	302.8	314.5
65°	191.3	125.5	192.1	133.2	150.3	151.1	207.6	264.9	271.1	275.0	283.5
67.5°	129.4	102.3	146.4	120.8	137.9	138.7	185.1	231.6	240.2	243.2	248.6
70°	89.9	68.1	108.4	107.6	124.0	125.5	161.1	201.4	209.1	211.4	214.6
72.5°	65.8	55.0	89.9	96.8	109.2	110.8	136.4	167.3	175.1	177.4	178.9
75°	50.4	58.1	72.8	84.5	92.9	93.7	111.6	136.4	141.8	143.3	144.1
77.5°	40.3	54.2	53.4	68.1	75.9	74.4	87.5	105.3	110.0	110.0	110.0
80°	30.2	42.6	40.3	48.8	55.7	54.2	62.8	75.2	76.7	78.2	77.5
82.5°	22.5	27.1	27.1	31.0	37.2	35.7	41.8	48.8	48.8	48.8	50.4
85°	13.9	15.5	12.4	16.2	20.9	20.2	23.3	26.3	27.1	27.1	25.6
87.5°	8.5	7.0	3.8	6.2	9.3	9.3	10.9	11.6	10.9	10.9	10.9
90°	9.3	6.4	3.5	6.4	9.3	10.0	15.7	23.3	27.2	24.2	18.2
92.5°	63.0	38.7	14.3	38.7	63.0	69.1	97.1	134.5	153.2	134.3	96.4
95°	123.4	78.9	34.3	78.9	123.4	134.6	239.0	378.3	447.9	399.7	303.2
97.5°	138.0	98.7	59.4	98.7	138.0	147.8	322.0	554.2	670.3	639.8	578.9
100°	150.1	114.4	78.8	114.4	150.1	159.0	352.2	609.8	738.7	740.9	745.4
102.5°	161.8	128.5	95.2	128.5	161.8	170.1	366.1	627.3	758.0	796.8	874.5
105°	179.6	151.4	123.2	151.4	179.6	186.6	376.3	629.3	755.8	842.8	1016.9
107.5°	204.4	178.1	151.8	178.1	204.4	210.9	378.2	601.3	712.9	834.3	1077.2
110°	218.5	194.9	171.2	194.9	218.5	224.5	375.3	576.5	677.1	812.8	1084.3



TEST NUMBER: P934623

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	235.3	212.7	190.1	212.7	235.3	240.9	375.5	554.8	644.5	783.4	1061.2
115°	260.4	239.6	218.8	239.6	260.4	265.7	378.9	529.9	605.5	739.3	1006.9
117.5°	284.9	266.0	247.0	266.0	284.9	289.7	386.0	514.4	578.6	699.4	940.9
120°	299.1	281.4	263.5	281.4	299.1	303.6	391.7	509.1	567.9	678.2	898.9
122.5°	315.6	297.6	279.7	297.6	315.6	320.1	399.9	506.4	559.6	659.0	857.7
125°	337.1	320.7	304.3	320.7	337.1	341.2	411.0	504.1	550.7	635.1	804.0
127.5°	357.4	341.0	324.4	341.0	357.4	361.6	422.1	502.8	543.2	615.6	760.6
130°	370.8	353.0	335.1	353.0	370.8	375.2	430.3	503.7	540.3	604.8	733.9
132.5°	381.8	364.1	346.2	364.1	381.8	386.3	436.8	504.1	537.8	595.5	711.1
135°	395.2	378.9	362.7	378.9	395.2	399.2	444.0	503.7	533.5	581.8	678.6
137.5°	411.6	395.5	379.5	395.5	411.6	415.6	454.7	506.7	532.8	573.6	655.4
140°	423.1	408.3	393.5	408.3	423.1	426.8	461.3	507.3	530.2	565.6	636.3
142.5°	431.7	418.0	404.2	418.0	431.7	435.0	466.8	509.0	530.2	561.3	623.3
145°	444.5	432.7	420.7	432.7	444.5	447.5	473.9	509.1	526.7	552.1	602.8
147.5°	460.4	448.8	437.1	448.8	460.4	463.3	484.4	512.6	526.7	546.6	586.6
150°	468.9	458.4	447.9	458.4	468.9	471.5	490.0	514.4	526.7	543.5	577.3
152.5°	474.9	467.0	459.0	467.0	474.9	476.9	493.5	515.6	526.7	541.1	569.9
155°	487.3	481.3	475.5	481.3	487.3	488.7	501.3	518.2	526.7	538.2	561.1
157.5°	499.1	493.4	487.6	493.4	499.1	500.6	509.3	520.9	526.7	535.6	553.4
160°	504.8	500.3	495.9	500.3	504.8	505.9	512.8	522.1	526.7	534.3	549.5
162.5°	510.8	507.5	504.1	507.5	510.8	511.7	516.7	523.4	526.7	533.1	546.0
165°	519.1	516.1	513.1	516.1	519.1	519.9	522.1	525.1	526.7	531.3	540.5
167.5°	524.1	522.8	521.3	522.8	524.1	524.5	526.4	529.0	530.2	533.2	539.3
170°	529.5	528.1	526.7	528.1	529.5	529.9	530.0	530.1	530.2	533.2	539.3
172.5°	530.1	529.8	529.5	529.8	530.1	530.2	530.2	530.2	530.2	532.6	537.4
175°	533.5	533.5	533.5	533.5	533.5	533.5	532.4	530.9	530.2	531.8	534.8
177.5°	533.5	533.5	533.5	533.5	533.5	533.5	532.6	531.5	531.0	532.2	534.6
180°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5



TEST NUMBER: P934623

CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7	818.7
2.5°	790.1	787.8	790.9	782.3	790.9	787.8	790.1	795.5	790.9	793.9	797.1
5°	693.3	689.4	677.0	666.9	677.0	689.4	693.3	709.6	717.3	731.2	749.8
7.5°	619.7	616.6	613.5	607.3	613.5	616.6	619.7	624.3	632.1	644.5	658.4
10°	603.4	604.2	608.8	608.1	608.8	604.2	603.4	601.8	599.5	601.8	610.4
12.5°	645.3	652.2	677.8	676.2	677.8	652.2	645.3	614.2	593.4	589.4	591.1
15°	693.3	695.6	701.0	701.8	701.0	695.6	693.3	680.9	618.2	591.1	582.5
17.5°	697.9	698.7	702.5	702.5	702.5	698.7	697.9	692.5	671.6	635.2	587.1
20°	694.1	695.6	703.3	704.9	703.3	695.6	694.1	687.1	675.4	662.3	625.9
22.5°	692.5	695.6	701.8	701.0	701.8	695.6	692.5	681.7	671.6	662.3	647.6
25°	684.8	684.8	685.5	686.3	685.5	684.8	684.8	676.2	656.1	653.7	645.3
27.5°	668.5	670.1	674.7	673.9	674.7	670.1	668.5	665.4	643.7	641.4	635.2
30°	653.7	652.2	648.3	645.3	648.3	652.2	653.7	649.1	627.4	621.2	622.8
32.5°	629.0	625.1	621.2	618.9	621.2	625.1	629.0	627.4	611.1	602.7	604.2
35°	599.5	600.3	599.5	597.2	599.5	600.3	599.5	601.1	591.1	583.3	582.5
37.5°	578.7	580.2	579.4	576.3	579.4	580.2	578.7	577.1	563.1	560.8	562.3
40°	556.9	557.7	556.9	554.6	556.9	557.7	556.9	553.9	534.5	535.2	540.7
42.5°	536.0	535.2	532.9	531.4	532.9	535.2	536.0	531.4	506.6	504.3	514.4
45°	512.1	512.8	508.1	505.8	508.1	512.8	512.1	508.9	483.3	477.2	484.1
47.5°	488.0	488.0	484.1	481.8	484.1	488.0	488.0	484.1	457.0	450.8	454.7
50°	462.5	461.7	456.2	455.5	456.2	461.7	462.5	460.2	431.4	426.0	426.0
52.5°	433.0	433.0	433.7	435.4	433.7	433.0	433.0	433.7	408.3	402.8	401.2
55°	407.4	408.3	413.6	415.2	413.6	408.3	407.4	407.4	384.2	378.8	375.7
57.5°	381.1	381.1	385.0	385.0	385.0	381.1	381.1	379.5	357.1	352.4	350.9
60°	350.9	352.4	355.5	354.7	355.5	352.4	350.9	349.3	329.9	326.9	321.5
62.5°	319.2	320.7	321.5	319.9	321.5	320.7	319.2	314.5	302.8	300.5	293.6
65°	285.8	287.4	288.1	286.6	288.1	287.4	285.8	283.5	275.0	271.1	264.9
67.5°	251.7	250.9	250.2	253.3	250.2	250.9	251.7	248.6	243.2	240.2	231.6
70°	216.9	216.9	216.1	217.7	216.1	216.9	216.9	214.6	211.4	209.1	201.4
72.5°	179.7	178.9	182.0	179.7	182.0	178.9	179.7	178.9	177.4	175.1	167.3
75°	143.3	144.8	143.3	145.6	143.3	144.8	143.3	144.1	143.3	141.8	136.4
77.5°	109.2	110.8	109.2	109.2	109.2	110.8	109.2	110.0	110.0	110.0	105.3
80°	77.5	76.7	76.7	75.9	76.7	76.7	77.5	77.5	78.2	76.7	75.2
82.5°	49.6	48.8	48.8	50.4	48.8	48.8	49.6	50.4	48.8	48.8	48.8
85°	27.1	27.9	26.3	26.3	26.3	27.9	27.1	25.6	27.1	27.1	26.3
87.5°	10.1	9.3	9.3	9.3	9.3	9.3	10.1	10.9	10.9	10.9	11.6
90°	13.6	13.6	13.6	13.6	13.6	13.6	13.6	18.2	24.2	27.2	23.3
92.5°	68.0	65.3	54.4	43.7	54.4	65.3	68.0	96.4	134.3	153.2	134.5
95°	230.9	222.8	190.0	157.2	190.0	222.8	230.9	303.2	399.7	447.9	378.3
97.5°	533.1	517.5	455.1	392.8	455.1	517.5	533.1	578.9	639.8	670.3	554.2
100°	748.7	730.1	655.7	581.4	655.7	730.1	748.7	745.4	740.9	738.7	609.8
102.5°	932.7	916.8	853.2	789.5	853.2	916.8	932.7	874.5	796.8	758.0	627.3
105°	1147.5	1139.0	1104.7	1070.5	1104.7	1139.0	1147.5	1016.9	842.8	755.8	629.3
107.5°	1259.3	1261.3	1269.6	1277.8	1269.6	1261.3	1259.3	1077.2	834.3	712.9	601.3
110°	1287.9	1296.8	1332.4	1368.1	1332.4	1296.8	1287.9	1084.3	812.8	677.1	576.5



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1269.6	1283.3	1338.0	1392.8	1338.0	1283.3	1269.6	1061.2	783.4	644.5	554.8
115°	1207.7	1226.6	1302.5	1378.5	1302.5	1226.6	1207.7	1006.9	739.3	605.5	529.9
117.5°	1122.1	1143.1	1227.3	1311.5	1227.3	1143.1	1122.1	940.9	699.4	578.6	514.4
120°	1064.4	1084.9	1166.7	1248.5	1166.7	1084.9	1064.4	898.9	678.2	567.9	509.1
122.5°	1006.8	1026.9	1107.6	1188.3	1107.6	1026.9	1006.8	857.7	659.0	559.6	506.4
125°	930.5	949.1	1023.5	1097.8	1023.5	949.1	930.5	804.0	635.1	550.7	504.1
127.5°	869.3	885.0	947.7	1010.4	947.7	885.0	869.3	760.6	615.6	543.2	502.8
130°	830.7	845.2	903.1	961.0	903.1	845.2	830.7	733.9	604.8	540.3	503.7
132.5°	797.7	810.7	862.6	914.5	862.6	810.7	797.7	711.1	595.5	537.8	504.1
135°	751.1	762.3	807.0	851.8	807.0	762.3	751.1	678.6	581.8	533.5	503.7
137.5°	716.8	726.0	762.5	799.2	762.5	726.0	716.8	655.4	573.6	532.8	506.7
140°	689.2	697.8	732.0	766.2	732.0	697.8	689.2	636.3	565.6	530.2	507.3
142.5°	669.9	677.3	706.7	736.1	706.7	677.3	669.9	623.3	561.3	530.2	509.0
145°	640.9	646.4	668.7	691.0	668.7	646.4	640.9	602.8	552.1	526.7	509.1
147.5°	616.5	621.2	639.6	658.0	639.6	621.2	616.5	586.6	546.6	526.7	512.6
150°	602.6	606.4	621.3	636.3	621.3	606.4	602.6	577.3	543.5	526.7	514.4
152.5°	591.5	594.4	605.6	616.9	605.6	594.4	591.5	569.9	541.1	526.7	515.6
155°	578.3	580.1	587.6	595.1	587.6	580.1	578.3	561.1	538.2	526.7	518.2
157.5°	566.8	568.1	573.3	578.6	573.3	568.1	566.8	553.4	535.6	526.7	520.9
160°	561.0	561.8	564.8	567.9	564.8	561.8	561.0	549.5	534.3	526.7	522.1
162.5°	555.7	556.4	559.3	562.1	559.3	556.4	555.7	546.0	533.1	526.7	523.4
165°	547.5	548.2	551.2	554.2	551.2	548.2	547.5	540.5	531.3	526.7	525.1
167.5°	543.9	544.2	545.5	546.7	545.5	544.2	543.9	539.3	533.2	530.2	529.0
170°	543.9	543.9	543.9	543.9	543.9	543.9	543.9	539.3	533.2	530.2	530.1
172.5°	541.0	540.7	539.6	538.5	539.6	540.7	541.0	537.4	532.6	530.2	530.2
175°	537.1	537.1	537.1	537.1	537.1	537.1	537.1	534.8	531.8	530.2	530.9
177.5°	536.4	536.1	534.8	533.5	534.8	536.1	536.4	534.6	532.2	531.0	531.5
180°	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5	533.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	818.7	818.7	818.7	818.7	818.7
2.5°	808.7	812.6	814.9	818.0	825.7
5°	777.7	792.4	797.1	808.7	822.6
7.5°	709.6	754.4	766.8	794.7	816.4
10°	643.7	688.6	710.3	776.2	808.7
12.5°	610.4	636.7	651.4	743.6	797.9
15°	589.4	608.1	618.9	700.2	785.5
17.5°	573.2	586.4	594.1	657.7	768.4
20°	563.1	569.3	576.3	626.6	749.1
22.5°	556.2	552.3	557.7	605.0	722.7
25°	551.6	536.8	543.0	587.9	691.7
27.5°	555.4	522.8	525.2	572.4	659.2
30°	556.2	505.8	506.6	556.2	622.8
32.5°	550.8	488.0	488.8	536.0	581.7
35°	537.5	467.1	466.3	512.8	526.0
37.5°	519.8	444.6	444.6	487.3	464.8
40°	498.0	422.2	424.5	453.9	410.6
42.5°	471.7	398.2	401.2	409.8	370.3
45°	443.1	374.9	377.2	346.3	339.3
47.5°	411.3	350.9	351.7	287.4	329.2
50°	373.4	326.1	323.0	246.3	328.4
52.5°	340.0	299.0	289.7	223.1	298.2
55°	307.5	270.3	250.2	205.3	276.5
57.5°	278.9	233.2	213.8	184.3	271.9
60°	252.5	196.7	182.0	161.9	249.4
62.5°	230.8	169.6	166.6	146.4	226.1
65°	207.6	151.1	150.3	133.2	192.1
67.5°	185.1	138.7	137.9	120.8	146.4
70°	161.1	125.5	124.0	107.6	108.4
72.5°	136.4	110.8	109.2	96.8	89.9
75°	111.6	93.7	92.9	84.5	72.8
77.5°	87.5	74.4	75.9	68.1	53.4
80°	62.8	54.2	55.7	48.8	40.3
82.5°	41.8	35.7	37.2	31.0	27.1
85°	23.3	20.2	20.9	16.2	12.4
87.5°	10.9	9.3	9.3	6.2	3.8
90°	15.7	10.0	9.3	6.4	3.5
92.5°	97.1	69.1	63.0	38.7	14.3
95°	239.0	134.6	123.4	78.9	34.3
97.5°	322.0	147.8	138.0	98.7	59.4
100°	352.2	159.0	150.1	114.4	78.8
102.5°	366.1	170.1	161.8	128.5	95.2
105°	376.3	186.6	179.6	151.4	123.2
107.5°	378.2	210.9	204.4	178.1	151.8
110°	375.3	224.5	218.5	194.9	171.2



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CATALOG NUMBER: SQ4-FA-075U-050D-927-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	375.5	240.9	235.3	212.7	190.1
115°	378.9	265.7	260.4	239.6	218.8
117.5°	386.0	289.7	284.9	266.0	247.0
120°	391.7	303.6	299.1	281.4	263.5
122.5°	399.9	320.1	315.6	297.6	279.7
125°	411.0	341.2	337.1	320.7	304.3
127.5°	422.1	361.6	357.4	341.0	324.4
130°	430.3	375.2	370.8	353.0	335.1
132.5°	436.8	386.3	381.8	364.1	346.2
135°	444.0	399.2	395.2	378.9	362.7
137.5°	454.7	415.6	411.6	395.5	379.5
140°	461.3	426.8	423.1	408.3	393.5
142.5°	466.8	435.0	431.7	418.0	404.2
145°	473.9	447.5	444.5	432.7	420.7
147.5°	484.4	463.3	460.4	448.8	437.1
150°	490.0	471.5	468.9	458.4	447.9
152.5°	493.5	476.9	474.9	467.0	459.0
155°	501.3	488.7	487.3	481.3	475.5
157.5°	509.3	500.6	499.1	493.4	487.6
160°	512.8	505.9	504.8	500.3	495.9
162.5°	516.7	511.7	510.8	507.5	504.1
165°	522.1	519.9	519.1	516.1	513.1
167.5°	526.4	524.5	524.1	522.8	521.3
170°	530.0	529.9	529.5	528.1	526.7
172.5°	530.2	530.2	530.1	529.8	529.5
175°	532.4	533.5	533.5	533.5	533.5
177.5°	532.6	533.5	533.5	533.5	533.5
180°	533.5	533.5	533.5	533.5	533.5



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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	9.22	9.99	10.28	11.04	12.48	12.05	12.81	13.10	13.87	15.30
	3H	9.69	10.38	10.76	11.44	12.89	13.38	14.07	14.45	15.13	16.58
	4H	9.88	10.53	10.95	11.59	13.05	13.82	14.47	14.90	15.54	17.00
	6H	9.99	10.59	11.08	11.66	13.13	14.10	14.70	15.18	15.77	17.24
	8H	9.99	10.56	11.08	11.65	13.11	14.17	14.74	15.26	15.83	17.29
	12H	9.96	10.50	11.05	11.58	13.07	14.21	14.74	15.30	15.83	17.31
4H	2H	10.24	10.89	11.32	11.96	13.42	12.44	13.09	13.53	14.16	15.62
	3H	11.26	11.80	12.35	12.90	14.37	13.94	14.48	15.03	15.57	17.05
	4H	11.53	12.03	12.63	13.11	14.60	14.46	14.96	15.56	16.04	17.53
	6H	11.65	12.08	12.75	13.19	14.67	14.82	15.25	15.92	16.35	17.84
	8H	11.65	12.05	12.76	13.15	14.65	14.92	15.32	16.03	16.42	17.92
	12H	11.62	11.98	12.74	13.09	14.60	14.98	15.33	16.09	16.45	17.95
8H	4H	11.98	12.37	13.08	13.47	14.98	14.58	14.98	15.68	16.08	17.58
	6H	12.23	12.56	13.36	13.70	15.20	15.01	15.34	16.13	16.48	17.98
	8H	12.28	12.56	13.41	13.69	15.20	15.16	15.45	16.29	16.57	18.09
	12H	12.26	12.51	13.39	13.63	15.18	15.25	15.51	16.39	16.63	18.18
12H	4H	11.98	12.34	13.10	13.45	14.96	14.54	14.90	15.66	16.01	17.52
	6H	12.29	12.58	13.42	13.70	15.22	15.01	15.29	16.14	16.42	17.93
	8H	12.36	12.61	13.49	13.73	15.28	15.16	15.41	16.30	16.53	18.09