

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: P933922

Luminaire Tested: SQ4-FA-025U-075D-927-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933922
REPORT IS A COMBINATION OF REPORTS P933678 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-075D-927-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

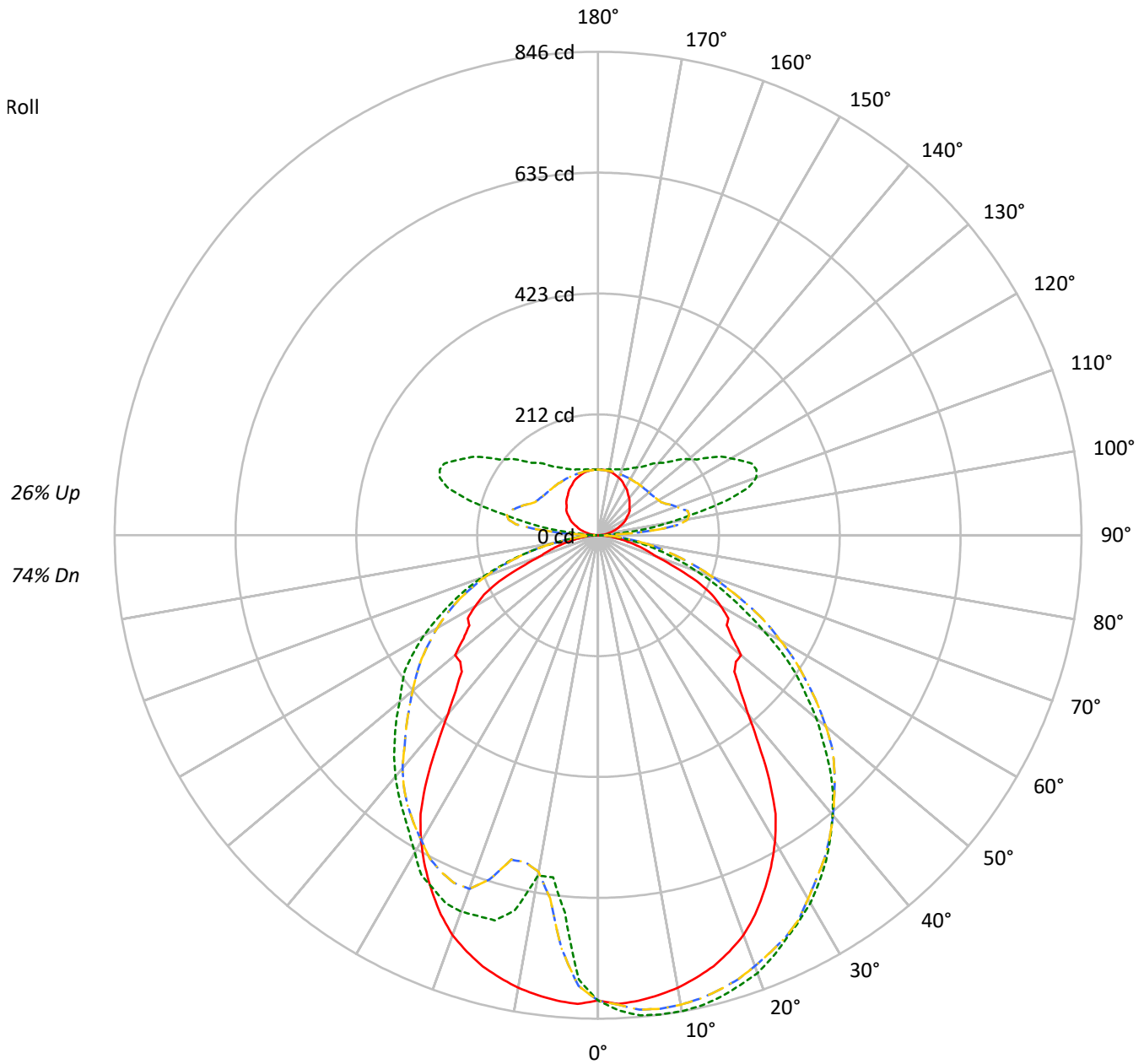
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2855.9 lumens
Efficiency: N/A
Efficacy: 95.2 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-Direct

Input Watts (W): 30
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

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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	113	113	113	113	107	107	107	107	97	97	97	87	87	87	78	78	78	78	78	78	74
1	103	99	95	91	98	94	90	87	85	82	80	77	75	73	69	68	66	66	66	66	62
2	94	86	80	75	89	82	77	72	75	70	66	68	64	61	61	58	56	56	56	56	52
3	86	76	68	62	81	72	66	60	66	60	56	60	55	52	54	51	48	48	48	48	44
4	79	67	59	53	74	64	57	51	59	52	48	53	48	44	48	44	41	41	41	41	38
5	72	60	52	45	68	57	50	44	52	46	41	48	43	38	43	39	36	36	36	36	33
6	67	54	46	39	63	52	44	38	47	41	36	43	38	34	39	35	31	31	31	31	29
7	62	49	41	35	58	47	39	34	43	36	32	39	34	30	36	31	28	28	28	28	26
8	57	44	36	31	54	43	35	30	39	33	28	36	31	27	33	28	25	25	25	25	23
9	53	41	33	28	51	39	32	27	36	30	25	33	28	24	30	26	23	23	23	23	21
10	50	37	30	25	48	36	29	24	33	27	23	31	25	22	28	24	20	20	20	20	19

AVERAGE LUMINANCE (cd/sqm):

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

MAXIMUM LUMINANCE 45°-90°:

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



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.5	2.6
10°-20°	208.6	7.3
20°-30°	322.5	11.3
30°-40°	385.0	13.5
40°-50°	387.3	13.6
50°-60°	337.0	11.8
60°-70°	238.9	8.4
70°-80°	126.4	4.4
80°-90°	31.9	1.1
90°-100°	56.0	2.0
100°-110°	147.3	5.2
110°-120°	152.7	5.3
120°-130°	122.5	4.3
130°-140°	96.1	3.4
140°-150°	73.8	2.6
150°-160°	53.1	1.9
160°-170°	32.5	1.1
170°-180°	11.0	0.4
0°-30°	604.6	21.2
0°-40°	989.6	34.7
0°-60°	1713.8	60.0
0°-90°	2111.0	73.9
90°-120°	356.0	12.5
90°-150°	648.3	22.7
90°-180°	745.0	26.1
0°-180°	2855.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	814	814	814	814	814	
5°	818	843	818	663	818	78
15°	781	836	781	698	781	220
25°	688	779	688	682	688	316
35°	523	695	523	594	523	324
45°	337	573	337	503	337	270
55°	275	423	275	413	275	253
65°	191	255	191	285	191	182
75°	72	121	72	145	72	76
85°	12	31	12	26	12	17
90°	1	3	1	3	1	1
95°	7	34	7	34	7	8
105°	27	231	27	231	27	28
115°	47	297	47	297	47	47
125°	66	236	66	236	66	58
135°	78	184	78	184	78	60
145°	91	149	91	149	91	57
155°	102	128	102	128	102	47
165°	110	119	110	119	110	31
175°	115	116	115	116	115	11
180°	115	115	115	115	115	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	820.9	820.9	825.6	827.1	827.1	824.8	822.5	824.8	831.8	834.1	833.3
5°	817.8	824.1	832.5	834.1	835.6	834.8	833.3	834.8	842.5	844.1	844.8
7.5°	811.7	823.3	834.1	836.4	838.7	836.4	835.6	837.1	844.8	846.4	846.4
10°	804.0	820.1	832.5	834.1	836.4	834.1	834.1	837.1	844.8	846.4	847.2
12.5°	793.2	815.5	827.1	828.7	831.8	831.0	830.2	833.3	841.0	842.5	842.5
15°	780.9	807.0	817.8	819.4	824.8	823.3	823.3	826.4	834.8	837.1	836.4
17.5°	763.9	796.3	808.6	810.9	814.7	814.0	814.7	817.8	825.6	827.1	827.9
20°	744.7	781.6	796.3	798.6	802.4	802.4	802.4	806.3	814.0	817.0	817.0
22.5°	718.5	766.2	781.6	783.2	787.8	787.8	789.3	794.7	801.6	802.4	802.4
25°	687.7	749.3	762.4	767.0	771.6	773.9	776.2	779.3	781.6	780.9	781.6
27.5°	655.3	727.7	744.7	747.7	753.9	756.2	759.3	760.1	760.8	763.1	761.6
30°	619.2	697.7	723.1	726.2	736.2	737.7	734.7	736.2	740.0	741.6	743.1
32.5°	578.3	653.0	700.8	707.7	716.9	712.3	711.6	713.9	720.0	720.0	721.6
35°	522.9	618.4	680.0	686.1	693.1	687.7	690.8	691.5	695.4	697.7	696.9
37.5°	462.1	588.4	658.4	663.0	668.4	661.5	666.1	668.4	671.5	670.0	670.0
40°	408.2	541.4	633.0	636.1	640.7	635.3	639.9	641.5	643.0	641.5	640.7
42.5°	368.1	489.8	606.1	609.9	606.8	610.7	612.2	615.3	613.0	609.9	609.9
45°	337.3	475.9	576.8	581.4	576.8	583.0	585.3	585.3	578.3	576.8	576.0
47.5°	327.3	448.2	547.5	547.5	545.2	552.9	556.8	551.4	544.5	542.2	542.2
50°	326.6	417.4	507.5	504.4	515.2	524.4	520.6	515.2	509.8	501.3	501.3
52.5°	296.5	379.7	455.9	467.5	484.4	489.8	483.6	478.2	469.0	465.2	462.1
55°	275.0	340.4	408.9	432.0	449.8	456.7	445.1	439.7	425.9	423.6	422.0
57.5°	270.3	283.4	365.8	395.1	416.6	415.9	408.9	398.9	387.4	385.1	384.3
60°	247.9	204.8	319.6	354.3	376.6	374.3	368.1	358.9	348.1	346.6	345.0
62.5°	224.8	148.6	267.2	306.5	338.1	337.3	331.9	318.1	310.4	306.5	303.5
65°	191.0	124.7	190.2	254.9	300.4	301.9	290.4	280.4	271.8	267.2	266.4
67.5°	145.5	101.6	128.6	212.5	264.1	262.6	247.9	243.3	232.5	230.2	225.6
70°	107.8	67.8	89.3	172.5	228.7	224.8	213.3	207.9	197.9	192.5	189.4
72.5°	89.3	54.7	65.4	134.0	192.5	187.9	177.9	171.7	163.2	158.6	155.5
75°	72.4	57.8	50.1	99.3	156.3	153.2	144.0	137.8	130.9	124.7	125.5
77.5°	53.1	53.9	40.0	73.2	124.0	119.4	114.0	106.3	103.2	97.0	97.0
80°	40.0	42.4	30.0	50.1	89.3	89.3	84.7	79.3	73.9	70.8	70.8
82.5°	27.0	27.0	22.3	31.6	60.8	58.5	55.4	53.9	50.8	49.3	49.3
85°	12.3	15.4	13.9	19.2	33.1	34.6	34.6	33.1	32.3	30.8	31.6
87.5°	3.8	6.9	8.5	10.8	16.9	17.7	18.5	18.5	18.5	19.2	19.2
90°	0.8	1.4	2.0	2.2	3.4	5.0	5.9	5.2	3.9	2.9	2.9
92.5°	3.1	8.3	13.6	14.9	20.9	29.0	33.0	29.0	20.8	14.6	14.0
95°	7.4	17.0	26.6	29.0	51.5	81.5	96.5	86.1	65.3	49.7	48.0
97.5°	12.8	21.3	29.7	31.9	69.4	119.4	144.4	137.8	124.7	114.8	111.4
100°	16.9	24.6	32.3	34.3	75.8	131.4	159.1	159.5	160.5	161.2	157.2
102.5°	20.5	27.6	34.9	36.7	78.8	135.1	163.2	171.6	188.3	200.9	197.4
105°	26.6	32.6	38.7	40.2	81.1	135.5	162.8	181.6	219.1	247.2	245.3
107.5°	32.7	38.3	44.0	45.4	81.5	129.5	153.5	179.7	232.0	271.3	271.7
110°	36.9	42.0	47.0	48.4	80.9	124.2	145.8	175.1	233.5	277.4	279.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	41.0	45.8	50.7	51.9	80.9	119.5	138.8	168.8	228.6	273.5	276.4
115°	47.1	51.6	56.1	57.2	81.6	114.2	130.4	159.2	216.9	260.1	264.2
117.5°	53.2	57.3	61.4	62.4	83.2	110.8	124.7	150.7	202.7	241.7	246.2
120°	56.7	60.6	64.4	65.4	84.3	109.6	122.3	146.1	193.7	229.3	233.7
122.5°	60.2	64.1	67.9	68.9	86.1	109.0	120.5	141.9	184.7	216.8	221.1
125°	65.5	69.1	72.6	73.5	88.6	108.6	118.6	136.8	173.2	200.4	204.4
127.5°	69.8	73.5	77.0	77.9	90.9	108.3	117.0	132.6	163.9	187.3	190.7
130°	72.1	76.0	79.8	80.9	92.7	108.5	116.3	130.3	158.1	178.9	182.0
132.5°	74.6	78.5	82.3	83.2	94.1	108.6	115.8	128.3	153.2	171.9	174.6
135°	78.2	81.6	85.2	86.0	95.6	108.5	114.9	125.3	146.1	161.8	164.2
137.5°	81.8	85.2	88.7	89.6	97.9	109.1	114.7	123.5	141.1	154.4	156.4
140°	84.8	87.9	91.2	91.9	99.3	109.3	114.2	121.8	137.1	148.5	150.3
142.5°	87.1	90.0	92.9	93.7	100.6	109.6	114.2	120.9	134.3	144.3	145.9
145°	90.6	93.2	95.8	96.4	102.1	109.6	113.4	118.9	129.8	138.1	139.3
147.5°	94.2	96.6	99.2	99.8	104.3	110.4	113.4	117.7	126.4	132.8	133.8
150°	96.5	98.7	101.0	101.6	105.5	110.8	113.4	117.0	124.4	129.8	130.6
152.5°	98.9	100.6	102.3	102.7	106.3	111.0	113.4	116.5	122.7	127.4	128.1
155°	102.4	103.6	105.0	105.3	108.0	111.6	113.4	115.9	120.9	124.6	125.0
157.5°	105.0	106.3	107.5	107.8	109.6	112.2	113.4	115.3	119.2	122.0	122.4
160°	106.8	107.7	108.7	109.0	110.4	112.4	113.4	115.0	118.3	120.8	121.0
162.5°	108.6	109.3	110.0	110.2	111.3	112.7	113.4	114.8	117.6	119.7	119.8
165°	110.5	111.1	111.8	112.0	112.4	113.1	113.4	114.4	116.4	117.9	118.0
167.5°	112.3	112.6	112.9	113.0	113.3	113.9	114.2	114.8	116.1	117.1	117.2
170°	113.4	113.7	114.0	114.1	114.1	114.2	114.2	114.8	116.1	117.1	117.1
172.5°	114.0	114.1	114.2	114.2	114.2	114.2	114.2	114.7	115.7	116.5	116.4
175°	114.9	114.9	114.9	114.9	114.7	114.3	114.2	114.5	115.2	115.7	115.7
177.5°	114.9	114.9	114.9	114.9	114.7	114.5	114.3	114.6	115.1	115.5	115.4
180°	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	834.8	832.5	834.8	833.3	834.1	831.8	824.8	822.5	824.8	827.1	827.1
5°	844.8	843.3	844.8	844.8	844.1	842.5	834.8	833.3	834.8	835.6	834.1
7.5°	847.9	845.6	847.9	846.4	846.4	844.8	837.1	835.6	836.4	838.7	836.4
10°	847.9	845.6	847.9	847.2	846.4	844.8	837.1	834.1	834.1	836.4	834.1
12.5°	844.1	842.5	844.1	842.5	842.5	841.0	833.3	830.2	831.0	831.8	828.7
15°	837.9	835.6	837.9	836.4	837.1	834.8	826.4	823.3	823.3	824.8	819.4
17.5°	828.7	825.6	828.7	827.9	827.1	825.6	817.8	814.7	814.0	814.7	810.9
20°	817.8	815.5	817.8	817.0	817.0	814.0	806.3	802.4	802.4	802.4	798.6
22.5°	800.9	798.6	800.9	802.4	802.4	801.6	794.7	789.3	787.8	787.8	783.2
25°	781.6	779.3	781.6	781.6	780.9	781.6	779.3	776.2	773.9	771.6	767.0
27.5°	763.1	761.6	763.1	761.6	763.1	760.8	760.1	759.3	756.2	753.9	747.7
30°	744.7	743.1	744.7	743.1	741.6	740.0	736.2	734.7	737.7	736.2	726.2
32.5°	721.6	720.0	721.6	721.6	720.0	720.0	713.9	711.6	712.3	716.9	707.7
35°	697.7	695.4	697.7	696.9	697.7	695.4	691.5	690.8	687.7	693.1	686.1
37.5°	670.0	667.7	670.0	670.0	670.0	671.5	668.4	666.1	661.5	668.4	663.0
40°	641.5	638.4	641.5	640.7	641.5	643.0	641.5	639.9	635.3	640.7	636.1
42.5°	609.1	608.4	609.1	609.9	609.9	613.0	615.3	612.2	610.7	606.8	609.9
45°	574.5	573.0	574.5	576.0	576.8	578.3	585.3	585.3	583.0	576.8	581.4
47.5°	537.5	533.7	537.5	542.2	542.2	544.5	551.4	556.8	552.9	545.2	547.5
50°	498.3	499.0	498.3	501.3	501.3	509.8	515.2	520.6	524.4	515.2	504.4
52.5°	459.8	459.0	459.8	462.1	465.2	469.0	478.2	483.6	489.8	484.4	467.5
55°	421.3	422.8	421.3	422.0	423.6	425.9	439.7	445.1	456.7	449.8	432.0
57.5°	382.8	380.5	382.8	384.3	385.1	387.4	398.9	408.9	415.9	416.6	395.1
60°	338.1	335.0	338.1	345.0	346.6	348.1	358.9	368.1	374.3	376.6	354.3
62.5°	298.8	293.4	298.8	303.5	306.5	310.4	318.1	331.9	337.3	338.1	306.5
65°	257.2	254.9	257.2	266.4	267.2	271.8	280.4	290.4	301.9	300.4	254.9
67.5°	219.4	219.4	219.4	225.6	230.2	232.5	243.3	247.9	262.6	264.1	212.5
70°	184.8	184.0	184.8	189.4	192.5	197.9	207.9	213.3	224.8	228.7	172.5
72.5°	151.7	150.9	151.7	155.5	158.6	163.2	171.7	177.9	187.9	192.5	134.0
75°	122.4	120.9	122.4	125.5	124.7	130.9	137.8	144.0	153.2	156.3	99.3
77.5°	93.9	93.9	93.9	97.0	97.0	103.2	106.3	114.0	119.4	124.0	73.2
80°	70.1	69.3	70.1	70.8	70.8	73.9	79.3	84.7	89.3	89.3	50.1
82.5°	49.3	47.7	49.3	49.3	49.3	50.8	53.9	55.4	58.5	60.8	31.6
85°	30.8	30.8	30.8	31.6	30.8	32.3	33.1	34.6	34.6	33.1	19.2
87.5°	20.0	19.2	20.0	19.2	19.2	18.5	18.5	18.5	17.7	16.9	10.8
90°	2.9	2.9	2.9	2.9	2.9	3.9	5.2	5.9	5.0	3.4	2.2
92.5°	11.7	9.4	11.7	14.0	14.6	20.8	29.0	33.0	29.0	20.9	14.9
95°	41.0	33.9	41.0	48.0	49.7	65.3	86.1	96.5	81.5	51.5	29.0
97.5°	98.0	84.6	98.0	111.4	114.8	124.7	137.8	144.4	119.4	69.4	31.9
100°	141.3	125.3	141.3	157.2	161.2	160.5	159.5	159.1	131.4	75.8	34.3
102.5°	183.7	170.0	183.7	197.4	200.9	188.3	171.6	163.2	135.1	78.8	36.7
105°	238.0	230.6	238.0	245.3	247.2	219.1	181.6	162.8	135.5	81.1	40.2
107.5°	273.5	275.3	273.5	271.7	271.3	232.0	179.7	153.5	129.5	81.5	45.4
110°	287.0	294.7	287.0	279.4	277.4	233.5	175.1	145.8	124.2	80.9	48.4



TEST NUMBER: P933922

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	288.2	300.0	288.2	276.4	273.5	228.6	168.8	138.8	119.5	80.9	51.9
115°	280.6	296.9	280.6	264.2	260.1	216.9	159.2	130.4	114.2	81.6	57.2
117.5°	264.3	282.5	264.3	246.2	241.7	202.7	150.7	124.7	110.8	83.2	62.4
120°	251.3	268.9	251.3	233.7	229.3	193.7	146.1	122.3	109.6	84.3	65.4
122.5°	238.5	255.9	238.5	221.1	216.8	184.7	141.9	120.5	109.0	86.1	68.9
125°	220.5	236.5	220.5	204.4	200.4	173.2	136.8	118.6	108.6	88.6	73.5
127.5°	204.1	217.6	204.1	190.7	187.3	163.9	132.6	117.0	108.3	90.9	77.9
130°	194.5	207.0	194.5	182.0	178.9	158.1	130.3	116.3	108.5	92.7	80.9
132.5°	185.8	197.0	185.8	174.6	171.9	153.2	128.3	115.8	108.6	94.1	83.2
135°	173.9	183.5	173.9	164.2	161.8	146.1	125.3	114.9	108.5	95.6	86.0
137.5°	164.2	172.2	164.2	156.4	154.4	141.1	123.5	114.7	109.1	97.9	89.6
140°	157.6	165.0	157.6	150.3	148.5	137.1	121.8	114.2	109.3	99.3	91.9
142.5°	152.2	158.5	152.2	145.9	144.3	134.3	120.9	114.2	109.6	100.6	93.7
145°	144.1	148.8	144.1	139.3	138.1	129.8	118.9	113.4	109.6	102.1	96.4
147.5°	137.8	141.8	137.8	133.8	132.8	126.4	117.7	113.4	110.4	104.3	99.8
150°	133.8	137.1	133.8	130.6	129.8	124.4	117.0	113.4	110.8	105.5	101.6
152.5°	130.4	132.9	130.4	128.1	127.4	122.7	116.5	113.4	111.0	106.3	102.7
155°	126.6	128.2	126.6	125.0	124.6	120.9	115.9	113.4	111.6	108.0	105.3
157.5°	123.5	124.7	123.5	122.4	122.0	119.2	115.3	113.4	112.2	109.6	107.8
160°	121.7	122.3	121.7	121.0	120.8	118.3	115.0	113.4	112.4	110.4	109.0
162.5°	120.4	121.0	120.4	119.8	119.7	117.6	114.8	113.4	112.7	111.3	110.2
165°	118.7	119.4	118.7	118.0	117.9	116.4	114.4	113.4	113.1	112.4	112.0
167.5°	117.4	117.7	117.4	117.2	117.1	116.1	114.8	114.2	113.9	113.3	113.0
170°	117.1	117.1	117.1	117.1	117.1	116.1	114.8	114.2	114.2	114.1	114.1
172.5°	116.2	116.0	116.2	116.4	116.5	115.7	114.7	114.2	114.2	114.2	114.2
175°	115.7	115.7	115.7	115.7	115.7	115.2	114.5	114.2	114.3	114.7	114.9
177.5°	115.2	114.9	115.2	115.4	115.5	115.1	114.6	114.3	114.5	114.7	114.9
180°	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9



TEST NUMBER: P933922

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	825.6	820.9	820.9	813.2	810.1	807.8	804.0	792.4	789.3	786.2	790.9
5°	832.5	824.1	817.8	804.0	792.4	787.8	773.2	745.4	727.0	713.1	705.4
7.5°	834.1	823.3	811.7	790.1	762.4	750.1	705.4	654.6	640.7	628.4	620.7
10°	832.5	820.1	804.0	771.6	706.2	684.6	639.9	606.8	598.4	596.1	598.4
12.5°	827.1	815.5	793.2	739.3	647.6	633.0	606.8	587.6	586.0	589.9	610.7
15°	817.8	807.0	780.9	696.2	615.3	604.5	586.0	579.1	587.6	614.5	676.9
17.5°	808.6	796.3	763.9	653.8	590.7	583.0	569.9	583.7	631.5	667.7	688.5
20°	796.3	781.6	744.7	623.0	573.0	566.0	559.9	622.2	658.4	671.5	683.1
22.5°	781.6	766.2	718.5	601.4	554.5	549.1	552.9	643.8	658.4	667.7	677.7
25°	762.4	749.3	687.7	584.5	539.8	533.7	548.3	641.5	650.0	652.3	672.3
27.5°	744.7	727.7	655.3	569.1	522.1	519.8	552.2	631.5	637.6	639.9	661.5
30°	723.1	697.7	619.2	552.9	503.7	502.9	552.9	619.2	617.6	623.8	645.3
32.5°	700.8	653.0	578.3	532.9	485.9	485.2	547.5	600.7	599.1	607.6	623.8
35°	680.0	618.4	522.9	509.8	463.6	464.4	534.5	579.1	579.9	587.6	597.6
37.5°	658.4	588.4	462.1	484.4	442.1	442.1	516.7	559.1	557.6	559.9	573.7
40°	633.0	541.4	408.2	451.3	422.0	419.7	495.2	537.5	532.1	531.4	550.6
42.5°	606.1	489.8	368.1	407.4	398.9	395.9	469.0	511.4	501.3	503.7	528.3
45°	576.8	475.9	337.3	344.3	375.1	372.8	440.5	481.3	474.4	480.6	506.0
47.5°	547.5	448.2	327.3	285.7	349.7	348.9	408.9	452.1	448.2	454.4	481.3
50°	507.5	417.4	326.6	244.9	321.2	324.2	371.2	423.6	423.6	429.0	457.5
52.5°	455.9	379.7	296.5	221.8	288.1	297.3	338.1	398.9	400.5	405.9	431.3
55°	408.9	340.4	275.0	204.0	248.7	268.7	305.8	373.5	376.6	382.0	405.1
57.5°	365.8	283.4	270.3	183.3	212.5	231.8	277.3	348.9	350.4	355.0	377.4
60°	319.6	204.8	247.9	160.9	181.0	195.6	251.0	319.6	325.0	328.1	347.3
62.5°	267.2	148.6	224.8	145.5	165.6	168.6	229.5	291.9	298.8	301.1	312.7
65°	190.2	124.7	191.0	132.4	149.4	150.2	206.4	263.3	269.5	273.4	281.9
67.5°	128.6	101.6	145.5	120.1	137.1	137.8	184.0	230.2	238.7	241.8	247.2
70°	89.3	67.8	107.8	107.0	123.2	124.7	160.2	200.2	207.9	210.2	213.3
72.5°	65.4	54.7	89.3	96.2	108.6	110.1	135.5	166.3	174.0	176.3	177.9
75°	50.1	57.8	72.4	83.9	92.4	93.2	110.9	135.5	140.9	142.5	143.2
77.5°	40.0	53.9	53.1	67.8	75.5	73.9	87.0	104.7	109.3	109.3	109.3
80°	30.0	42.4	40.0	48.5	55.4	53.9	62.4	74.7	76.2	77.8	77.0
82.5°	22.3	27.0	27.0	30.8	37.0	35.4	41.6	48.5	48.5	48.5	50.1
85°	13.9	15.4	12.3	16.2	20.8	20.0	23.1	26.2	27.0	27.0	25.4
87.5°	8.5	6.9	3.8	6.2	9.2	9.2	10.8	11.6	10.8	10.8	10.8
90°	2.0	1.4	0.8	1.4	2.0	2.2	3.4	5.0	5.9	5.2	3.9
92.5°	13.6	8.3	3.1	8.3	13.6	14.9	20.9	29.0	33.0	29.0	20.8
95°	26.6	17.0	7.4	17.0	26.6	29.0	51.5	81.5	96.5	86.1	65.3
97.5°	29.7	21.3	12.8	21.3	29.7	31.9	69.4	119.4	144.4	137.8	124.7
100°	32.3	24.6	16.9	24.6	32.3	34.3	75.8	131.4	159.1	159.5	160.5
102.5°	34.9	27.6	20.5	27.6	34.9	36.7	78.8	135.1	163.2	171.6	188.3
105°	38.7	32.6	26.6	32.6	38.7	40.2	81.1	135.5	162.8	181.6	219.1
107.5°	44.0	38.3	32.7	38.3	44.0	45.4	81.5	129.5	153.5	179.7	232.0
110°	47.0	42.0	36.9	42.0	47.0	48.4	80.9	124.2	145.8	175.1	233.5



TEST NUMBER: P933922

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	50.7	45.8	41.0	45.8	50.7	51.9	80.9	119.5	138.8	168.8	228.6
115°	56.1	51.6	47.1	51.6	56.1	57.2	81.6	114.2	130.4	159.2	216.9
117.5°	61.4	57.3	53.2	57.3	61.4	62.4	83.2	110.8	124.7	150.7	202.7
120°	64.4	60.6	56.7	60.6	64.4	65.4	84.3	109.6	122.3	146.1	193.7
122.5°	67.9	64.1	60.2	64.1	67.9	68.9	86.1	109.0	120.5	141.9	184.7
125°	72.6	69.1	65.5	69.1	72.6	73.5	88.6	108.6	118.6	136.8	173.2
127.5°	77.0	73.5	69.8	73.5	77.0	77.9	90.9	108.3	117.0	132.6	163.9
130°	79.8	76.0	72.1	76.0	79.8	80.9	92.7	108.5	116.3	130.3	158.1
132.5°	82.3	78.5	74.6	78.5	82.3	83.2	94.1	108.6	115.8	128.3	153.2
135°	85.2	81.6	78.2	81.6	85.2	86.0	95.6	108.5	114.9	125.3	146.1
137.5°	88.7	85.2	81.8	85.2	88.7	89.6	97.9	109.1	114.7	123.5	141.1
140°	91.2	87.9	84.8	87.9	91.2	91.9	99.3	109.3	114.2	121.8	137.1
142.5°	92.9	90.0	87.1	90.0	92.9	93.7	100.6	109.6	114.2	120.9	134.3
145°	95.8	93.2	90.6	93.2	95.8	96.4	102.1	109.6	113.4	118.9	129.8
147.5°	99.2	96.6	94.2	96.6	99.2	99.8	104.3	110.4	113.4	117.7	126.4
150°	101.0	98.7	96.5	98.7	101.0	101.6	105.5	110.8	113.4	117.0	124.4
152.5°	102.3	100.6	98.9	100.6	102.3	102.7	106.3	111.0	113.4	116.5	122.7
155°	105.0	103.6	102.4	103.6	105.0	105.3	108.0	111.6	113.4	115.9	120.9
157.5°	107.5	106.3	105.0	106.3	107.5	107.8	109.6	112.2	113.4	115.3	119.2
160°	108.7	107.7	106.8	107.7	108.7	109.0	110.4	112.4	113.4	115.0	118.3
162.5°	110.0	109.3	108.6	109.3	110.0	110.2	111.3	112.7	113.4	114.8	117.6
165°	111.8	111.1	110.5	111.1	111.8	112.0	112.4	113.1	113.4	114.4	116.4
167.5°	112.9	112.6	112.3	112.6	112.9	113.0	113.3	113.9	114.2	114.8	116.1
170°	114.0	113.7	113.4	113.7	114.0	114.1	114.1	114.2	114.2	114.8	116.1
172.5°	114.2	114.1	114.0	114.1	114.2	114.2	114.2	114.2	114.2	114.7	115.7
175°	114.9	114.9	114.9	114.9	114.9	114.9	114.7	114.3	114.2	114.5	115.2
177.5°	114.9	114.9	114.9	114.9	114.9	114.9	114.7	114.5	114.3	114.6	115.1
180°	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9



TEST NUMBER: P933922

CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0	814.0
2.5°	785.5	783.2	786.2	777.8	786.2	783.2	785.5	790.9	786.2	789.3	792.4
5°	689.2	685.4	673.1	663.0	673.1	685.4	689.2	705.4	713.1	727.0	745.4
7.5°	616.1	613.0	609.9	603.8	609.9	613.0	616.1	620.7	628.4	640.7	654.6
10°	599.9	600.7	605.3	604.5	605.3	600.7	599.9	598.4	596.1	598.4	606.8
12.5°	641.5	648.4	673.8	672.3	673.8	648.4	641.5	610.7	589.9	586.0	587.6
15°	689.2	691.5	696.9	697.7	696.9	691.5	689.2	676.9	614.5	587.6	579.1
17.5°	693.8	694.6	698.5	698.5	698.5	694.6	693.8	688.5	667.7	631.5	583.7
20°	690.0	691.5	699.2	700.8	699.2	691.5	690.0	683.1	671.5	658.4	622.2
22.5°	688.5	691.5	697.7	696.9	697.7	691.5	688.5	677.7	667.7	658.4	643.8
25°	680.8	680.8	681.5	682.3	681.5	680.8	680.8	672.3	652.3	650.0	641.5
27.5°	664.6	666.1	670.7	670.0	670.7	666.1	664.6	661.5	639.9	637.6	631.5
30°	650.0	648.4	644.6	641.5	644.6	648.4	650.0	645.3	623.8	617.6	619.2
32.5°	625.3	621.5	617.6	615.3	617.6	621.5	625.3	623.8	607.6	599.1	600.7
35°	596.1	596.8	596.1	593.7	596.1	596.8	596.1	597.6	587.6	579.9	579.1
37.5°	575.3	576.8	576.0	573.0	576.0	576.8	575.3	573.7	559.9	557.6	559.1
40°	553.7	554.5	553.7	551.4	553.7	554.5	553.7	550.6	531.4	532.1	537.5
42.5°	532.9	532.1	529.8	528.3	529.8	532.1	532.9	528.3	503.7	501.3	511.4
45°	509.0	509.8	505.2	502.9	505.2	509.8	509.0	506.0	480.6	474.4	481.3
47.5°	485.2	485.2	481.3	479.0	481.3	485.2	485.2	481.3	454.4	448.2	452.1
50°	459.8	459.0	453.6	452.8	453.6	459.0	459.8	457.5	429.0	423.6	423.6
52.5°	430.5	430.5	431.3	432.8	431.3	430.5	430.5	431.3	405.9	400.5	398.9
55°	405.1	405.9	411.3	412.8	411.3	405.9	405.1	405.1	382.0	376.6	373.5
57.5°	378.9	378.9	382.8	382.8	382.8	378.9	378.9	377.4	355.0	350.4	348.9
60°	348.9	350.4	353.5	352.7	353.5	350.4	348.9	347.3	328.1	325.0	319.6
62.5°	317.3	318.9	319.6	318.1	319.6	318.9	317.3	312.7	301.1	298.8	291.9
65°	284.2	285.7	286.5	285.0	286.5	285.7	284.2	281.9	273.4	269.5	263.3
67.5°	250.2	249.5	248.7	251.8	248.7	249.5	250.2	247.2	241.8	238.7	230.2
70°	215.6	215.6	214.8	216.4	214.8	215.6	215.6	213.3	210.2	207.9	200.2
72.5°	178.6	177.9	181.0	178.6	181.0	177.9	178.6	177.9	176.3	174.0	166.3
75°	142.5	144.0	142.5	144.8	142.5	144.0	142.5	143.2	142.5	140.9	135.5
77.5°	108.6	110.1	108.6	108.6	108.6	110.1	108.6	109.3	109.3	109.3	104.7
80°	77.0	76.2	76.2	75.5	76.2	76.2	77.0	77.0	77.8	76.2	74.7
82.5°	49.3	48.5	48.5	50.1	48.5	48.5	49.3	50.1	48.5	48.5	48.5
85°	27.0	27.7	26.2	26.2	26.2	27.7	27.0	25.4	27.0	27.0	26.2
87.5°	10.0	9.2	9.2	9.2	9.2	9.2	10.0	10.8	10.8	10.8	11.6
90°	2.9	2.9	2.9	2.9	2.9	2.9	2.9	3.9	5.2	5.9	5.0
92.5°	14.6	14.0	11.7	9.4	11.7	14.0	14.6	20.8	29.0	33.0	29.0
95°	49.7	48.0	41.0	33.9	41.0	48.0	49.7	65.3	86.1	96.5	81.5
97.5°	114.8	111.4	98.0	84.6	98.0	111.4	114.8	124.7	137.8	144.4	119.4
100°	161.2	157.2	141.3	125.3	141.3	157.2	161.2	160.5	159.5	159.1	131.4
102.5°	200.9	197.4	183.7	170.0	183.7	197.4	200.9	188.3	171.6	163.2	135.1
105°	247.2	245.3	238.0	230.6	238.0	245.3	247.2	219.1	181.6	162.8	135.5
107.5°	271.3	271.7	273.5	275.3	273.5	271.7	271.3	232.0	179.7	153.5	129.5
110°	277.4	279.4	287.0	294.7	287.0	279.4	277.4	233.5	175.1	145.8	124.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	273.5	276.4	288.2	300.0	288.2	276.4	273.5	228.6	168.8	138.8	119.5
115°	260.1	264.2	280.6	296.9	280.6	264.2	260.1	216.9	159.2	130.4	114.2
117.5°	241.7	246.2	264.3	282.5	264.3	246.2	241.7	202.7	150.7	124.7	110.8
120°	229.3	233.7	251.3	268.9	251.3	233.7	229.3	193.7	146.1	122.3	109.6
122.5°	216.8	221.1	238.5	255.9	238.5	221.1	216.8	184.7	141.9	120.5	109.0
125°	200.4	204.4	220.5	236.5	220.5	204.4	200.4	173.2	136.8	118.6	108.6
127.5°	187.3	190.7	204.1	217.6	204.1	190.7	187.3	163.9	132.6	117.0	108.3
130°	178.9	182.0	194.5	207.0	194.5	182.0	178.9	158.1	130.3	116.3	108.5
132.5°	171.9	174.6	185.8	197.0	185.8	174.6	171.9	153.2	128.3	115.8	108.6
135°	161.8	164.2	173.9	183.5	173.9	164.2	161.8	146.1	125.3	114.9	108.5
137.5°	154.4	156.4	164.2	172.2	164.2	156.4	154.4	141.1	123.5	114.7	109.1
140°	148.5	150.3	157.6	165.0	157.6	150.3	148.5	137.1	121.8	114.2	109.3
142.5°	144.3	145.9	152.2	158.5	152.2	145.9	144.3	134.3	120.9	114.2	109.6
145°	138.1	139.3	144.1	148.8	144.1	139.3	138.1	129.8	118.9	113.4	109.6
147.5°	132.8	133.8	137.8	141.8	137.8	133.8	132.8	126.4	117.7	113.4	110.4
150°	129.8	130.6	133.8	137.1	133.8	130.6	129.8	124.4	117.0	113.4	110.8
152.5°	127.4	128.1	130.4	132.9	130.4	128.1	127.4	122.7	116.5	113.4	111.0
155°	124.6	125.0	126.6	128.2	126.6	125.0	124.6	120.9	115.9	113.4	111.6
157.5°	122.0	122.4	123.5	124.7	123.5	122.4	122.0	119.2	115.3	113.4	112.2
160°	120.8	121.0	121.7	122.3	121.7	121.0	120.8	118.3	115.0	113.4	112.4
162.5°	119.7	119.8	120.4	121.0	120.4	119.8	119.7	117.6	114.8	113.4	112.7
165°	117.9	118.0	118.7	119.4	118.7	118.0	117.9	116.4	114.4	113.4	113.1
167.5°	117.1	117.2	117.4	117.7	117.4	117.2	117.1	116.1	114.8	114.2	113.9
170°	117.1	117.1	117.1	117.1	117.1	117.1	117.1	116.1	114.8	114.2	114.2
172.5°	116.5	116.4	116.2	116.0	116.2	116.4	116.5	115.7	114.7	114.2	114.2
175°	115.7	115.7	115.7	115.7	115.7	115.7	115.7	115.2	114.5	114.2	114.3
177.5°	115.5	115.4	115.2	114.9	115.2	115.4	115.5	115.1	114.6	114.3	114.5
180°	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9	114.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	814.0	814.0	814.0	814.0	814.0
2.5°	804.0	807.8	810.1	813.2	820.9
5°	773.2	787.8	792.4	804.0	817.8
7.5°	705.4	750.1	762.4	790.1	811.7
10°	639.9	684.6	706.2	771.6	804.0
12.5°	606.8	633.0	647.6	739.3	793.2
15°	586.0	604.5	615.3	696.2	780.9
17.5°	569.9	583.0	590.7	653.8	763.9
20°	559.9	566.0	573.0	623.0	744.7
22.5°	552.9	549.1	554.5	601.4	718.5
25°	548.3	533.7	539.8	584.5	687.7
27.5°	552.2	519.8	522.1	569.1	655.3
30°	552.9	502.9	503.7	552.9	619.2
32.5°	547.5	485.2	485.9	532.9	578.3
35°	534.5	464.4	463.6	509.8	522.9
37.5°	516.7	442.1	442.1	484.4	462.1
40°	495.2	419.7	422.0	451.3	408.2
42.5°	469.0	395.9	398.9	407.4	368.1
45°	440.5	372.8	375.1	344.3	337.3
47.5°	408.9	348.9	349.7	285.7	327.3
50°	371.2	324.2	321.2	244.9	326.6
52.5°	338.1	297.3	288.1	221.8	296.5
55°	305.8	268.7	248.7	204.0	275.0
57.5°	277.3	231.8	212.5	183.3	270.3
60°	251.0	195.6	181.0	160.9	247.9
62.5°	229.5	168.6	165.6	145.5	224.8
65°	206.4	150.2	149.4	132.4	191.0
67.5°	184.0	137.8	137.1	120.1	145.5
70°	160.2	124.7	123.2	107.0	107.8
72.5°	135.5	110.1	108.6	96.2	89.3
75°	110.9	93.2	92.4	83.9	72.4
77.5°	87.0	73.9	75.5	67.8	53.1
80°	62.4	53.9	55.4	48.5	40.0
82.5°	41.6	35.4	37.0	30.8	27.0
85°	23.1	20.0	20.8	16.2	12.3
87.5°	10.8	9.2	9.2	6.2	3.8
90°	3.4	2.2	2.0	1.4	0.8
92.5°	20.9	14.9	13.6	8.3	3.1
95°	51.5	29.0	26.6	17.0	7.4
97.5°	69.4	31.9	29.7	21.3	12.8
100°	75.8	34.3	32.3	24.6	16.9
102.5°	78.8	36.7	34.9	27.6	20.5
105°	81.1	40.2	38.7	32.6	26.6
107.5°	81.5	45.4	44.0	38.3	32.7
110°	80.9	48.4	47.0	42.0	36.9



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CATALOG NUMBER: SQ4-FA-025U-075D-927-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	80.9	51.9	50.7	45.8	41.0
115°	81.6	57.2	56.1	51.6	47.1
117.5°	83.2	62.4	61.4	57.3	53.2
120°	84.3	65.4	64.4	60.6	56.7
122.5°	86.1	68.9	67.9	64.1	60.2
125°	88.6	73.5	72.6	69.1	65.5
127.5°	90.9	77.9	77.0	73.5	69.8
130°	92.7	80.9	79.8	76.0	72.1
132.5°	94.1	83.2	82.3	78.5	74.6
135°	95.6	86.0	85.2	81.6	78.2
137.5°	97.9	89.6	88.7	85.2	81.8
140°	99.3	91.9	91.2	87.9	84.8
142.5°	100.6	93.7	92.9	90.0	87.1
145°	102.1	96.4	95.8	93.2	90.6
147.5°	104.3	99.8	99.2	96.6	94.2
150°	105.5	101.6	101.0	98.7	96.5
152.5°	106.3	102.7	102.3	100.6	98.9
155°	108.0	105.3	105.0	103.6	102.4
157.5°	109.6	107.8	107.5	106.3	105.0
160°	110.4	109.0	108.7	107.7	106.8
162.5°	111.3	110.2	110.0	109.3	108.6
165°	112.4	112.0	111.8	111.1	110.5
167.5°	113.3	113.0	112.9	112.6	112.3
170°	114.1	114.1	114.0	113.7	113.4
172.5°	114.2	114.2	114.2	114.1	114.0
175°	114.7	114.9	114.9	114.9	114.9
177.5°	114.7	114.9	114.9	114.9	114.9
180°	114.9	114.9	114.9	114.9	114.9



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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	13.78	14.91	14.50	15.65	16.53	16.58	17.71	17.30	18.45	19.33
	3H	14.28	15.29	15.01	16.04	16.96	17.94	18.95	18.67	19.70	20.61
	4H	14.48	15.44	15.24	16.20	17.13	18.39	19.34	19.14	20.10	21.03
	6H	14.62	15.50	15.38	16.27	17.21	18.68	19.56	19.44	20.33	21.27
	8H	14.63	15.46	15.40	16.25	17.20	18.75	19.59	19.53	20.38	21.33
	12H	14.61	15.41	15.39	16.19	17.16	18.80	19.60	19.58	20.38	21.35
4H	2H	14.84	15.80	15.60	16.56	17.48	17.02	17.98	17.78	18.74	19.67
	3H	15.89	16.69	16.66	17.48	18.43	18.54	19.34	19.31	20.14	21.08
	4H	16.18	16.90	16.96	17.70	18.67	19.08	19.80	19.86	20.60	21.57
	6H	16.32	16.94	17.12	17.77	18.75	19.45	20.07	20.25	20.90	21.87
	8H	16.33	16.92	17.14	17.73	18.72	19.56	20.14	20.36	20.96	21.95
	12H	16.31	16.84	17.14	17.68	18.67	19.62	20.15	20.45	20.99	21.98
8H	4H	16.65	17.23	17.45	18.05	19.04	19.22	19.81	20.03	20.62	21.62
	6H	16.92	17.41	17.76	18.26	19.26	19.66	20.15	20.50	21.01	22.00
	8H	16.97	17.40	17.81	18.25	19.26	19.81	20.24	20.66	21.10	22.11
	12H	16.96	17.34	17.81	18.19	19.25	19.92	20.30	20.76	21.14	22.21
12H	4H	16.67	17.19	17.49	18.03	19.03	19.20	19.73	20.03	20.57	21.56
	6H	16.98	17.41	17.83	18.27	19.28	19.66	20.09	20.51	20.95	21.96
	8H	17.06	17.44	17.91	18.29	19.35	19.83	20.21	20.68	21.06	22.12