

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: P933970

Luminaire Tested: SQ4-FA-025U-075D-935-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933970
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-935-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

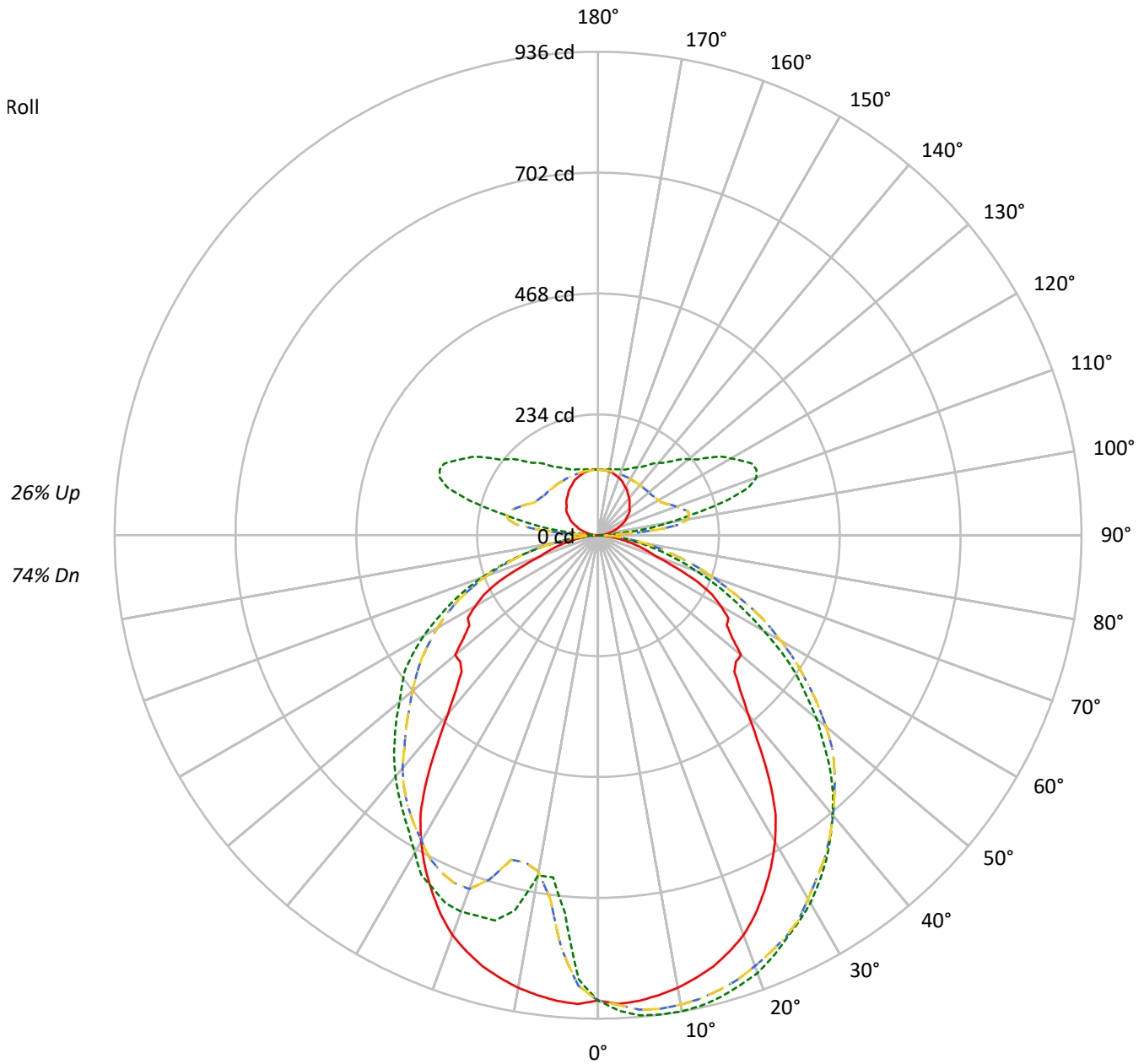
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3160.0 lumens
Efficiency: N/A
Efficacy: 105.3 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

TEST NUMBER: P933970
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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				
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°	8357	8357	8357	8357
5°	8410	8437	8410	6634
10°	8345	8311	8345	5941
15°	8245	8131	8245	6789
20°	8063	7917	8063	6803
25°	7701	7606	7701	6659
30°	7236	7348	7236	6343
35°	6442	7021	6442	5995
40°	5358	6637	5358	5732
45°	4779	6187	4779	5429
50°	5065	5650	5065	5127
55°	4752	5071	4752	4952
60°	4879	4307	4879	4535
65°	4403	3560	4403	3980
70°	3029	2836	3029	3335
75°	2627	2098	2627	2511
80°	2073	1387	2073	1510
85°	1126	735	1126	625

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7337 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	81.3	2.6
10°-20°	230.8	7.3
20°-30°	356.8	11.3
30°-40°	426.0	13.5
40°-50°	428.5	13.6
50°-60°	372.8	11.8
60°-70°	264.3	8.4
70°-80°	139.8	4.4
80°-90°	35.3	1.1
90°-100°	62.0	2.0
100°-110°	162.9	5.2
110°-120°	169.0	5.3
120°-130°	135.5	4.3
130°-140°	106.3	3.4
140°-150°	81.6	2.6
150°-160°	58.8	1.9
160°-170°	36.0	1.1
170°-180°	12.1	0.4
0°-30°	669.0	21.2
0°-40°	1095.0	34.7
0°-60°	1896.3	60.0
0°-90°	2335.8	73.9
90°-120°	393.9	12.5
90°-150°	717.3	22.7
90°-180°	824.0	26.1
0°-180°	3160.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	901	901	901	901	901	
5°	905	933	905	734	905	86
15°	864	925	864	772	864	243
25°	761	862	761	755	761	349
35°	579	769	579	657	579	358
45°	373	634	373	556	373	299
55°	304	468	304	457	304	280
65°	211	282	211	315	211	202
75°	80	134	80	160	80	84
85°	14	34	14	29	14	18
90°	1	3	1	3	1	1
95°	8	38	8	38	8	9
105°	29	255	29	255	29	31
115°	52	328	52	328	52	51
125°	72	262	72	262	72	64
135°	86	203	86	203	86	67
145°	100	165	100	165	100	63
155°	113	142	113	142	113	52
165°	122	132	122	132	122	35
175°	127	128	127	128	127	12
180°	127	127	127	127	127	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	908.3	908.3	913.5	915.2	915.2	912.7	910.1	912.7	920.3	922.9	922.0
5°	904.9	911.8	921.2	922.9	924.6	923.7	922.0	923.7	932.3	934.0	934.8
7.5°	898.1	911.0	922.9	925.4	928.0	925.4	924.6	926.3	934.8	936.5	936.5
10°	889.6	907.5	921.2	922.9	925.4	922.9	922.9	926.3	934.8	936.5	937.4
12.5°	877.6	902.4	915.2	916.9	920.3	919.5	918.6	922.0	930.6	932.3	932.3
15°	864.0	893.0	904.9	906.6	912.7	911.0	911.0	914.4	923.7	926.3	925.4
17.5°	845.3	881.1	894.7	897.2	901.5	900.6	901.5	904.9	913.5	915.2	916.1
20°	824.0	864.9	881.1	883.6	887.9	887.9	887.9	892.1	900.6	904.1	904.1
22.5°	795.0	847.8	864.9	866.6	871.7	871.7	873.4	879.3	887.0	887.9	887.9
25°	760.9	829.1	843.6	848.7	853.8	856.3	858.9	862.3	864.9	864.0	864.9
27.5°	725.1	805.2	824.0	827.4	834.2	836.7	840.2	841.0	841.9	844.4	842.7
30°	685.1	772.0	800.1	803.5	814.6	816.3	812.9	814.6	818.9	820.6	822.3
32.5°	639.9	722.6	775.4	783.1	793.3	788.2	787.3	789.9	796.7	796.7	798.4
35°	578.6	684.2	752.4	759.2	766.9	760.9	764.3	765.2	769.4	772.0	771.1
37.5°	511.3	651.0	728.5	733.7	739.6	732.0	737.1	739.6	743.0	741.3	741.3
40°	451.6	599.0	700.4	703.8	708.9	703.0	708.1	709.8	711.5	709.8	708.9
42.5°	407.3	542.0	670.6	674.9	671.5	675.7	677.4	680.8	678.3	674.9	674.9
45°	373.3	526.6	638.2	643.3	638.2	645.0	647.6	647.6	639.9	638.2	637.4
47.5°	362.2	495.9	605.9	605.9	603.3	611.8	616.1	610.1	602.4	599.9	599.9
50°	361.3	461.9	561.6	558.1	570.1	580.3	576.0	570.1	564.1	554.7	554.7
52.5°	328.1	420.1	504.5	517.2	536.0	542.0	535.1	529.2	519.0	514.7	511.3
55°	304.2	376.7	452.5	478.1	497.7	505.3	492.5	486.6	471.2	468.7	467.0
57.5°	299.1	313.6	404.8	437.2	461.0	460.2	452.5	441.4	428.6	426.1	425.2
60°	274.3	226.6	353.7	392.0	416.7	414.2	407.3	397.1	385.2	383.5	381.8
62.5°	248.8	164.4	295.6	339.2	374.1	373.3	367.3	352.0	343.4	339.2	335.8
65°	211.3	138.0	210.4	282.0	332.4	334.1	321.3	310.2	300.8	295.6	294.8
67.5°	161.0	112.5	142.3	235.2	292.2	290.5	274.3	269.2	257.3	254.7	249.6
70°	119.3	75.0	98.8	190.8	253.0	248.8	236.0	230.0	219.0	213.0	209.6
72.5°	98.8	60.5	72.4	148.2	213.0	207.9	196.8	190.0	180.6	175.5	172.1
75°	80.1	63.9	55.4	109.9	173.0	169.5	159.3	152.5	144.8	138.0	138.9
77.5°	58.8	59.6	44.3	80.9	137.2	132.1	126.1	117.6	114.2	107.4	107.4
80°	44.3	46.9	33.2	55.4	98.8	98.8	93.7	87.8	81.8	78.4	78.4
82.5°	29.8	29.8	24.7	34.9	67.3	64.8	61.3	59.6	56.2	54.5	54.5
85°	13.6	17.0	15.3	21.3	36.6	38.3	38.3	36.6	35.8	34.1	34.9
87.5°	4.3	7.7	9.4	11.9	18.7	19.6	20.4	20.4	20.4	21.3	21.3
90°	0.9	1.5	2.2	2.4	3.7	5.5	6.5	5.8	4.3	3.2	3.2
92.5°	3.4	9.2	15.0	16.4	23.2	32.1	36.6	32.0	23.0	16.2	15.5
95°	8.2	18.8	29.5	32.1	57.0	90.1	106.8	95.3	72.2	55.0	53.1
97.5°	14.1	23.5	32.9	35.3	76.8	132.1	159.8	152.5	137.9	127.0	123.3
100°	18.7	27.3	35.8	37.9	83.9	145.4	176.0	176.5	177.6	178.4	174.0
102.5°	22.7	30.6	38.6	40.6	87.2	149.5	180.6	189.9	208.4	222.3	218.5
105°	29.4	36.1	42.8	44.5	89.7	150.0	180.1	200.9	242.4	273.5	271.4
107.5°	36.2	42.4	48.7	50.3	90.1	143.3	169.9	198.9	256.7	300.2	300.7
110°	40.8	46.4	52.1	53.5	89.5	137.4	161.4	193.7	258.4	307.0	309.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	45.3	50.7	56.1	57.4	89.5	132.2	153.6	186.8	253.0	302.6	305.9
115°	52.1	57.1	62.0	63.3	90.3	126.4	144.3	176.2	240.0	287.8	292.3
117.5°	58.9	63.4	67.9	69.0	92.0	122.6	137.9	166.7	224.2	267.4	272.5
120°	62.8	67.1	71.3	72.3	93.3	121.3	135.3	161.6	214.3	253.7	258.6
122.5°	66.6	70.9	75.1	76.3	95.3	120.6	133.3	157.0	204.4	239.9	244.7
125°	72.5	76.4	80.3	81.4	98.0	120.1	131.2	151.3	191.6	221.8	226.2
127.5°	77.3	81.3	85.2	86.2	100.6	119.8	129.4	146.7	181.3	207.2	211.0
130°	79.8	84.1	88.4	89.5	102.6	120.0	128.7	144.2	174.9	198.0	201.4
132.5°	82.6	86.8	91.1	92.1	104.1	120.1	128.1	141.9	169.5	190.2	193.2
135°	86.5	90.3	94.2	95.2	105.8	120.0	127.1	138.6	161.7	179.0	181.6
137.5°	90.5	94.3	98.2	99.1	108.4	120.7	126.9	136.7	156.2	170.8	173.0
140°	93.8	97.3	100.9	101.7	109.9	120.9	126.4	134.8	151.7	164.3	166.3
142.5°	96.4	99.6	102.8	103.7	111.3	121.3	126.4	133.8	148.6	159.7	161.5
145°	100.3	103.1	106.0	106.7	113.0	121.3	125.5	131.5	143.6	152.8	154.1
147.5°	104.2	106.9	109.7	110.4	115.4	122.2	125.5	130.3	139.8	147.0	148.1
150°	106.8	109.2	111.8	112.4	116.7	122.6	125.5	129.5	137.6	143.6	144.5
152.5°	109.4	111.3	113.1	113.7	117.6	122.9	125.5	128.9	135.8	141.0	141.7
155°	113.3	114.7	116.1	116.5	119.5	123.5	125.5	128.2	133.8	137.9	138.3
157.5°	116.2	117.6	118.9	119.3	121.3	124.1	125.5	127.6	131.9	135.0	135.4
160°	118.2	119.2	120.3	120.6	122.2	124.4	125.5	127.3	131.0	133.7	133.8
162.5°	120.1	120.9	121.8	121.9	123.1	124.7	125.5	127.0	130.1	132.4	132.6
165°	122.3	122.9	123.7	123.9	124.4	125.2	125.5	126.6	128.8	130.4	130.6
167.5°	124.2	124.6	124.9	125.0	125.4	126.0	126.4	127.0	128.5	129.6	129.7
170°	125.5	125.8	126.2	126.3	126.3	126.4	126.4	127.0	128.5	129.6	129.6
172.5°	126.2	126.3	126.4	126.4	126.4	126.4	126.4	126.9	128.1	128.9	128.8
175°	127.1	127.1	127.1	127.1	126.9	126.5	126.4	126.7	127.5	128.0	128.0
177.5°	127.1	127.1	127.1	127.1	126.9	126.7	126.5	126.8	127.4	127.8	127.7
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	923.7	921.2	923.7	922.0	922.9	920.3	912.7	910.1	912.7	915.2	915.2
5°	934.8	933.1	934.8	934.8	934.0	932.3	923.7	922.0	923.7	924.6	922.9
7.5°	938.2	935.7	938.2	936.5	936.5	934.8	926.3	924.6	925.4	928.0	925.4
10°	938.2	935.7	938.2	937.4	936.5	934.8	926.3	922.9	922.9	925.4	922.9
12.5°	934.0	932.3	934.0	932.3	932.3	930.6	922.0	918.6	919.5	920.3	916.9
15°	927.1	924.6	927.1	925.4	926.3	923.7	914.4	911.0	911.0	912.7	906.6
17.5°	916.9	913.5	916.9	916.1	915.2	913.5	904.9	901.5	900.6	901.5	897.2
20°	904.9	902.4	904.9	904.1	904.1	900.6	892.1	887.9	887.9	887.9	883.6
22.5°	886.2	883.6	886.2	887.9	887.9	887.0	879.3	873.4	871.7	871.7	866.6
25°	864.9	862.3	864.9	864.9	864.0	864.9	862.3	858.9	856.3	853.8	848.7
27.5°	844.4	842.7	844.4	842.7	844.4	841.9	841.0	840.2	836.7	834.2	827.4
30°	824.0	822.3	824.0	822.3	820.6	818.9	814.6	812.9	816.3	814.6	803.5
32.5°	798.4	796.7	798.4	798.4	796.7	796.7	789.9	787.3	788.2	793.3	783.1
35°	772.0	769.4	772.0	771.1	772.0	769.4	765.2	764.3	760.9	766.9	759.2
37.5°	741.3	738.8	741.3	741.3	741.3	743.0	739.6	737.1	732.0	739.6	733.7
40°	709.8	706.4	709.8	708.9	709.8	711.5	709.8	708.1	703.0	708.9	703.8
42.5°	674.0	673.2	674.0	674.9	674.9	678.3	680.8	677.4	675.7	671.5	674.9
45°	635.7	634.0	635.7	637.4	638.2	639.9	647.6	647.6	645.0	638.2	643.3
47.5°	594.8	590.5	594.8	599.9	599.9	602.4	610.1	616.1	611.8	603.3	605.9
50°	551.3	552.2	551.3	554.7	554.7	564.1	570.1	576.0	580.3	570.1	558.1
52.5°	508.7	507.9	508.7	511.3	514.7	519.0	529.2	535.1	542.0	536.0	517.2
55°	466.1	467.8	466.1	467.0	468.7	471.2	486.6	492.5	505.3	497.7	478.1
57.5°	423.5	421.0	423.5	425.2	426.1	428.6	441.4	452.5	460.2	461.0	437.2
60°	374.1	370.7	374.1	381.8	383.5	385.2	397.1	407.3	414.2	416.7	392.0
62.5°	330.7	324.7	330.7	335.8	339.2	343.4	352.0	367.3	373.3	374.1	339.2
65°	284.6	282.0	284.6	294.8	295.6	300.8	310.2	321.3	334.1	332.4	282.0
67.5°	242.8	242.8	242.8	249.6	254.7	257.3	269.2	274.3	290.5	292.2	235.2
70°	204.5	203.6	204.5	209.6	213.0	219.0	230.0	236.0	248.8	253.0	190.8
72.5°	167.8	167.0	167.8	172.1	175.5	180.6	190.0	196.8	207.9	213.0	148.2
75°	135.5	133.8	135.5	138.9	138.0	144.8	152.5	159.3	169.5	173.0	109.9
77.5°	103.9	103.9	103.9	107.4	107.4	114.2	117.6	126.1	132.1	137.2	80.9
80°	77.5	76.7	77.5	78.4	78.4	81.8	87.8	93.7	98.8	98.8	55.4
82.5°	54.5	52.8	54.5	54.5	54.5	56.2	59.6	61.3	64.8	67.3	34.9
85°	34.1	34.1	34.1	34.9	34.1	35.8	36.6	38.3	38.3	36.6	21.3
87.5°	22.2	21.3	22.2	21.3	21.3	20.4	20.4	20.4	19.6	18.7	11.9
90°	3.2	3.2	3.2	3.2	3.2	4.3	5.8	6.5	5.5	3.7	2.4
92.5°	13.0	10.4	13.0	15.5	16.2	23.0	32.0	36.6	32.1	23.2	16.4
95°	45.3	37.5	45.3	53.1	55.0	72.2	95.3	106.8	90.1	57.0	32.1
97.5°	108.5	93.6	108.5	123.3	127.0	137.9	152.5	159.8	132.1	76.8	35.3
100°	156.3	138.6	156.3	174.0	178.4	177.6	176.5	176.0	145.4	83.9	37.9
102.5°	203.3	188.1	203.3	218.5	222.3	208.4	189.9	180.6	149.5	87.2	40.6
105°	263.4	255.2	263.4	271.4	273.5	242.4	200.9	180.1	150.0	89.7	44.5
107.5°	302.6	304.6	302.6	300.7	300.2	256.7	198.9	169.9	143.3	90.1	50.3
110°	317.5	326.1	317.5	309.1	307.0	258.4	193.7	161.4	137.4	89.5	53.5



TEST NUMBER: P933970

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	318.9	331.9	318.9	305.9	302.6	253.0	186.8	153.6	132.2	89.5	57.4
115°	310.5	328.5	310.5	292.3	287.8	240.0	176.2	144.3	126.4	90.3	63.3
117.5°	292.5	312.6	292.5	272.5	267.4	224.2	166.7	137.9	122.6	92.0	69.0
120°	278.1	297.5	278.1	258.6	253.7	214.3	161.6	135.3	121.3	93.3	72.3
122.5°	263.9	283.2	263.9	244.7	239.9	204.4	157.0	133.3	120.6	95.3	76.3
125°	243.9	261.6	243.9	226.2	221.8	191.6	151.3	131.2	120.1	98.0	81.4
127.5°	225.9	240.8	225.9	211.0	207.2	181.3	146.7	129.4	119.8	100.6	86.2
130°	215.2	229.0	215.2	201.4	198.0	174.9	144.2	128.7	120.0	102.6	89.5
132.5°	205.6	217.9	205.6	193.2	190.2	169.5	141.9	128.1	120.1	104.1	92.1
135°	192.4	203.0	192.4	181.6	179.0	161.7	138.6	127.1	120.0	105.8	95.2
137.5°	181.7	190.5	181.7	173.0	170.8	156.2	136.7	126.9	120.7	108.4	99.1
140°	174.4	182.6	174.4	166.3	164.3	151.7	134.8	126.4	120.9	109.9	101.7
142.5°	168.4	175.4	168.4	161.5	159.7	148.6	133.8	126.4	121.3	111.3	103.7
145°	159.4	164.7	159.4	154.1	152.8	143.6	131.5	125.5	121.3	113.0	106.7
147.5°	152.4	156.9	152.4	148.1	147.0	139.8	130.3	125.5	122.2	115.4	110.4
150°	148.1	151.7	148.1	144.5	143.6	137.6	129.5	125.5	122.6	116.7	112.4
152.5°	144.3	147.1	144.3	141.7	141.0	135.8	128.9	125.5	122.9	117.6	113.7
155°	140.1	141.9	140.1	138.3	137.9	133.8	128.2	125.5	123.5	119.5	116.5
157.5°	136.7	137.9	136.7	135.4	135.0	131.9	127.6	125.5	124.1	121.3	119.3
160°	134.6	135.3	134.6	133.8	133.7	131.0	127.3	125.5	124.4	122.2	120.6
162.5°	133.3	133.9	133.3	132.6	132.4	130.1	127.0	125.5	124.7	123.1	121.9
165°	131.4	132.1	131.4	130.6	130.4	128.8	126.6	125.5	125.2	124.4	123.9
167.5°	129.9	130.3	129.9	129.7	129.6	128.5	127.0	126.4	126.0	125.4	125.0
170°	129.6	129.6	129.6	129.6	129.6	128.5	127.0	126.4	126.4	126.3	126.3
172.5°	128.6	128.3	128.6	128.8	128.9	128.1	126.9	126.4	126.4	126.4	126.4
175°	128.0	128.0	128.0	128.0	128.0	127.5	126.7	126.4	126.5	126.9	127.1
177.5°	127.5	127.1	127.5	127.7	127.8	127.4	126.8	126.5	126.7	126.9	127.1
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



TEST NUMBER: P933970

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	913.5	908.3	908.3	899.8	896.4	893.8	889.6	876.8	873.4	870.0	875.1
5°	921.2	911.8	904.9	889.6	876.8	871.7	855.5	824.8	804.4	789.0	780.5
7.5°	922.9	911.0	898.1	874.2	843.6	829.9	780.5	724.3	708.9	695.3	686.8
10°	921.2	907.5	889.6	853.8	781.4	757.5	708.1	671.5	662.1	659.5	662.1
12.5°	915.2	902.4	877.6	818.0	716.6	700.4	671.5	650.2	648.5	652.7	675.7
15°	904.9	893.0	864.0	770.3	680.8	668.9	648.5	640.8	650.2	680.0	749.0
17.5°	894.7	881.1	845.3	723.4	653.6	645.0	630.6	645.9	698.7	738.8	761.8
20°	881.1	864.9	824.0	689.4	634.0	626.3	619.5	688.5	728.5	743.0	755.8
22.5°	864.9	847.8	795.0	665.5	613.5	607.6	611.8	712.4	728.5	738.8	749.8
25°	843.6	829.1	760.9	646.8	597.3	590.5	606.7	709.8	719.2	721.7	743.9
27.5°	824.0	805.2	725.1	629.7	577.7	575.2	611.0	698.7	705.5	708.1	732.0
30°	800.1	772.0	685.1	611.8	557.3	556.4	611.8	685.1	683.4	690.2	714.1
32.5°	775.4	722.6	639.9	589.7	537.7	536.8	605.9	664.6	662.9	672.3	690.2
35°	752.4	684.2	578.6	564.1	513.0	513.8	591.4	640.8	641.6	650.2	661.2
37.5°	728.5	651.0	511.3	536.0	489.1	489.1	571.8	618.6	616.9	619.5	634.8
40°	700.4	599.0	451.6	499.4	467.0	464.4	547.9	594.8	588.8	588.0	609.3
42.5°	670.6	542.0	407.3	450.8	441.4	438.0	519.0	565.8	554.7	557.3	584.6
45°	638.2	526.6	373.3	380.9	415.0	412.5	487.4	532.6	524.9	531.7	559.8
47.5°	605.9	495.9	362.2	316.2	386.9	386.0	452.5	500.2	495.9	502.8	532.6
50°	561.6	461.9	361.3	270.9	355.4	358.8	410.7	468.7	468.7	474.6	506.2
52.5°	504.5	420.1	328.1	245.4	318.7	329.0	374.1	441.4	443.1	449.1	477.2
55°	452.5	376.7	304.2	225.8	275.2	297.3	338.3	413.3	416.7	422.7	448.2
57.5°	404.8	313.6	299.1	202.8	235.2	256.5	306.8	386.0	387.7	392.9	417.6
60°	353.7	226.6	274.3	178.1	200.2	216.4	277.8	353.7	359.6	363.0	384.3
62.5°	295.6	164.4	248.8	161.0	183.2	186.6	253.9	323.0	330.7	333.2	346.0
65°	210.4	138.0	211.3	146.5	165.3	166.1	228.3	291.4	298.2	302.5	311.9
67.5°	142.3	112.5	161.0	132.9	151.7	152.5	203.6	254.7	264.1	267.5	273.5
70°	98.8	75.0	119.3	118.4	136.3	138.0	177.2	221.5	230.0	232.6	236.0
72.5°	72.4	60.5	98.8	106.5	120.1	121.8	150.0	184.0	192.6	195.1	196.8
75°	55.4	63.9	80.1	92.9	102.2	103.1	122.7	150.0	155.9	157.6	158.5
77.5°	44.3	59.6	58.8	75.0	83.5	81.8	96.3	115.9	121.0	121.0	121.0
80°	33.2	46.9	44.3	53.7	61.3	59.6	69.0	82.6	84.3	86.1	85.2
82.5°	24.7	29.8	29.8	34.1	40.9	39.2	46.0	53.7	53.7	53.7	55.4
85°	15.3	17.0	13.6	17.9	23.0	22.2	25.6	29.0	29.8	29.8	28.1
87.5°	9.4	7.7	4.3	6.8	10.2	10.2	11.9	12.8	11.9	11.9	11.9
90°	2.2	1.5	0.9	1.5	2.2	2.4	3.7	5.5	6.5	5.8	4.3
92.5°	15.0	9.2	3.4	9.2	15.0	16.4	23.2	32.1	36.6	32.0	23.0
95°	29.5	18.8	8.2	18.8	29.5	32.1	57.0	90.1	106.8	95.3	72.2
97.5°	32.9	23.5	14.1	23.5	32.9	35.3	76.8	132.1	159.8	152.5	137.9
100°	35.8	27.3	18.7	27.3	35.8	37.9	83.9	145.4	176.0	176.5	177.6
102.5°	38.6	30.6	22.7	30.6	38.6	40.6	87.2	149.5	180.6	189.9	208.4
105°	42.8	36.1	29.4	36.1	42.8	44.5	89.7	150.0	180.1	200.9	242.4
107.5°	48.7	42.4	36.2	42.4	48.7	50.3	90.1	143.3	169.9	198.9	256.7
110°	52.1	46.4	40.8	46.4	52.1	53.5	89.5	137.4	161.4	193.7	258.4



TEST NUMBER: P933970

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	56.1	50.7	45.3	50.7	56.1	57.4	89.5	132.2	153.6	186.8	253.0
115°	62.0	57.1	52.1	57.1	62.0	63.3	90.3	126.4	144.3	176.2	240.0
117.5°	67.9	63.4	58.9	63.4	67.9	69.0	92.0	122.6	137.9	166.7	224.2
120°	71.3	67.1	62.8	67.1	71.3	72.3	93.3	121.3	135.3	161.6	214.3
122.5°	75.1	70.9	66.6	70.9	75.1	76.3	95.3	120.6	133.3	157.0	204.4
125°	80.3	76.4	72.5	76.4	80.3	81.4	98.0	120.1	131.2	151.3	191.6
127.5°	85.2	81.3	77.3	81.3	85.2	86.2	100.6	119.8	129.4	146.7	181.3
130°	88.4	84.1	79.8	84.1	88.4	89.5	102.6	120.0	128.7	144.2	174.9
132.5°	91.1	86.8	82.6	86.8	91.1	92.1	104.1	120.1	128.1	141.9	169.5
135°	94.2	90.3	86.5	90.3	94.2	95.2	105.8	120.0	127.1	138.6	161.7
137.5°	98.2	94.3	90.5	94.3	98.2	99.1	108.4	120.7	126.9	136.7	156.2
140°	100.9	97.3	93.8	97.3	100.9	101.7	109.9	120.9	126.4	134.8	151.7
142.5°	102.8	99.6	96.4	99.6	102.8	103.7	111.3	121.3	126.4	133.8	148.6
145°	106.0	103.1	100.3	103.1	106.0	106.7	113.0	121.3	125.5	131.5	143.6
147.5°	109.7	106.9	104.2	106.9	109.7	110.4	115.4	122.2	125.5	130.3	139.8
150°	111.8	109.2	106.8	109.2	111.8	112.4	116.7	122.6	125.5	129.5	137.6
152.5°	113.1	111.3	109.4	111.3	113.1	113.7	117.6	122.9	125.5	128.9	135.8
155°	116.1	114.7	113.3	114.7	116.1	116.5	119.5	123.5	125.5	128.2	133.8
157.5°	118.9	117.6	116.2	117.6	118.9	119.3	121.3	124.1	125.5	127.6	131.9
160°	120.3	119.2	118.2	119.2	120.3	120.6	122.2	124.4	125.5	127.3	131.0
162.5°	121.8	120.9	120.1	120.9	121.8	121.9	123.1	124.7	125.5	127.0	130.1
165°	123.7	122.9	122.3	122.9	123.7	123.9	124.4	125.2	125.5	126.6	128.8
167.5°	124.9	124.6	124.2	124.6	124.9	125.0	125.4	126.0	126.4	127.0	128.5
170°	126.2	125.8	125.5	125.8	126.2	126.3	126.3	126.4	126.4	127.0	128.5
172.5°	126.4	126.3	126.2	126.3	126.4	126.4	126.4	126.4	126.4	126.9	128.1
175°	127.1	127.1	127.1	127.1	127.1	127.1	126.9	126.5	126.4	126.7	127.5
177.5°	127.1	127.1	127.1	127.1	127.1	127.1	126.9	126.7	126.5	126.8	127.4
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



TEST NUMBER: P933970

CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6	900.6
2.5°	869.1	866.6	870.0	860.6	870.0	866.6	869.1	875.1	870.0	873.4	876.8
5°	762.6	758.4	744.7	733.7	744.7	758.4	762.6	780.5	789.0	804.4	824.8
7.5°	681.7	678.3	674.9	668.1	674.9	678.3	681.7	686.8	695.3	708.9	724.3
10°	663.8	664.6	669.8	668.9	669.8	664.6	663.8	662.1	659.5	662.1	671.5
12.5°	709.8	717.5	745.6	743.9	745.6	717.5	709.8	675.7	652.7	648.5	650.2
15°	762.6	765.2	771.1	772.0	771.1	765.2	762.6	749.0	680.0	650.2	640.8
17.5°	767.7	768.6	772.8	772.8	772.8	768.6	767.7	761.8	738.8	698.7	645.9
20°	763.5	765.2	773.7	775.4	773.7	765.2	763.5	755.8	743.0	728.5	688.5
22.5°	761.8	765.2	772.0	771.1	772.0	765.2	761.8	749.8	738.8	728.5	712.4
25°	753.3	753.3	754.1	755.0	754.1	753.3	753.3	743.9	721.7	719.2	709.8
27.5°	735.4	737.1	742.2	741.3	742.2	737.1	735.4	732.0	708.1	705.5	698.7
30°	719.2	717.5	713.2	709.8	713.2	717.5	719.2	714.1	690.2	683.4	685.1
32.5°	691.9	687.6	683.4	680.8	683.4	687.6	691.9	690.2	672.3	662.9	664.6
35°	659.5	660.4	659.5	657.0	659.5	660.4	659.5	661.2	650.2	641.6	640.8
37.5°	636.5	638.2	637.4	634.0	637.4	638.2	636.5	634.8	619.5	616.9	618.6
40°	612.7	613.5	612.7	610.1	612.7	613.5	612.7	609.3	588.0	588.8	594.8
42.5°	589.7	588.8	586.3	584.6	586.3	588.8	589.7	584.6	557.3	554.7	565.8
45°	563.3	564.1	559.0	556.4	559.0	564.1	563.3	559.8	531.7	524.9	532.6
47.5°	536.8	536.8	532.6	530.0	532.6	536.8	536.8	532.6	502.8	495.9	500.2
50°	508.7	507.9	501.9	501.1	501.9	507.9	508.7	506.2	474.6	468.7	468.7
52.5°	476.4	476.4	477.2	478.9	477.2	476.4	476.4	477.2	449.1	443.1	441.4
55°	448.2	449.1	455.1	456.8	455.1	449.1	448.2	448.2	422.7	416.7	413.3
57.5°	419.3	419.3	423.5	423.5	423.5	419.3	419.3	417.6	392.9	387.7	386.0
60°	386.0	387.7	391.2	390.3	391.2	387.7	386.0	384.3	363.0	359.6	353.7
62.5°	351.1	352.8	353.7	352.0	353.7	352.8	351.1	346.0	333.2	330.7	323.0
65°	314.5	316.2	317.0	315.3	317.0	316.2	314.5	311.9	302.5	298.2	291.4
67.5°	276.9	276.0	275.2	278.6	275.2	276.0	276.9	273.5	267.5	264.1	254.7
70°	238.6	238.6	237.7	239.4	237.7	238.6	238.6	236.0	232.6	230.0	221.5
72.5°	197.7	196.8	200.2	197.7	200.2	196.8	197.7	196.8	195.1	192.6	184.0
75°	157.6	159.3	157.6	160.2	157.6	159.3	157.6	158.5	157.6	155.9	150.0
77.5°	120.1	121.8	120.1	120.1	120.1	121.8	120.1	121.0	121.0	121.0	115.9
80°	85.2	84.3	84.3	83.5	84.3	84.3	85.2	85.2	86.1	84.3	82.6
82.5°	54.5	53.7	53.7	55.4	53.7	53.7	54.5	55.4	53.7	53.7	53.7
85°	29.8	30.7	29.0	29.0	29.0	30.7	29.8	28.1	29.8	29.8	29.0
87.5°	11.1	10.2	10.2	10.2	10.2	10.2	11.1	11.9	11.9	11.9	12.8
90°	3.2	3.2	3.2	3.2	3.2	3.2	3.2	4.3	5.8	6.5	5.5
92.5°	16.2	15.5	13.0	10.4	13.0	15.5	16.2	23.0	32.0	36.6	32.1
95°	55.0	53.1	45.3	37.5	45.3	53.1	55.0	72.2	95.3	106.8	90.1
97.5°	127.0	123.3	108.5	93.6	108.5	123.3	127.0	137.9	152.5	159.8	132.1
100°	178.4	174.0	156.3	138.6	156.3	174.0	178.4	177.6	176.5	176.0	145.4
102.5°	222.3	218.5	203.3	188.1	203.3	218.5	222.3	208.4	189.9	180.6	149.5
105°	273.5	271.4	263.4	255.2	263.4	271.4	273.5	242.4	200.9	180.1	150.0
107.5°	300.2	300.7	302.6	304.6	302.6	300.7	300.2	256.7	198.9	169.9	143.3
110°	307.0	309.1	317.5	326.1	317.5	309.1	307.0	258.4	193.7	161.4	137.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	302.6	305.9	318.9	331.9	318.9	305.9	302.6	253.0	186.8	153.6	132.2
115°	287.8	292.3	310.5	328.5	310.5	292.3	287.8	240.0	176.2	144.3	126.4
117.5°	267.4	272.5	292.5	312.6	292.5	272.5	267.4	224.2	166.7	137.9	122.6
120°	253.7	258.6	278.1	297.5	278.1	258.6	253.7	214.3	161.6	135.3	121.3
122.5°	239.9	244.7	263.9	283.2	263.9	244.7	239.9	204.4	157.0	133.3	120.6
125°	221.8	226.2	243.9	261.6	243.9	226.2	221.8	191.6	151.3	131.2	120.1
127.5°	207.2	211.0	225.9	240.8	225.9	211.0	207.2	181.3	146.7	129.4	119.8
130°	198.0	201.4	215.2	229.0	215.2	201.4	198.0	174.9	144.2	128.7	120.0
132.5°	190.2	193.2	205.6	217.9	205.6	193.2	190.2	169.5	141.9	128.1	120.1
135°	179.0	181.6	192.4	203.0	192.4	181.6	179.0	161.7	138.6	127.1	120.0
137.5°	170.8	173.0	181.7	190.5	181.7	173.0	170.8	156.2	136.7	126.9	120.7
140°	164.3	166.3	174.4	182.6	174.4	166.3	164.3	151.7	134.8	126.4	120.9
142.5°	159.7	161.5	168.4	175.4	168.4	161.5	159.7	148.6	133.8	126.4	121.3
145°	152.8	154.1	159.4	164.7	159.4	154.1	152.8	143.6	131.5	125.5	121.3
147.5°	147.0	148.1	152.4	156.9	152.4	148.1	147.0	139.8	130.3	125.5	122.2
150°	143.6	144.5	148.1	151.7	148.1	144.5	143.6	137.6	129.5	125.5	122.6
152.5°	141.0	141.7	144.3	147.1	144.3	141.7	141.0	135.8	128.9	125.5	122.9
155°	137.9	138.3	140.1	141.9	140.1	138.3	137.9	133.8	128.2	125.5	123.5
157.5°	135.0	135.4	136.7	137.9	136.7	135.4	135.0	131.9	127.6	125.5	124.1
160°	133.7	133.8	134.6	135.3	134.6	133.8	133.7	131.0	127.3	125.5	124.4
162.5°	132.4	132.6	133.3	133.9	133.3	132.6	132.4	130.1	127.0	125.5	124.7
165°	130.4	130.6	131.4	132.1	131.4	130.6	130.4	128.8	126.6	125.5	125.2
167.5°	129.6	129.7	129.9	130.3	129.9	129.7	129.6	128.5	127.0	126.4	126.0
170°	129.6	129.6	129.6	129.6	129.6	129.6	129.6	128.5	127.0	126.4	126.4
172.5°	128.9	128.8	128.6	128.3	128.6	128.8	128.9	128.1	126.9	126.4	126.4
175°	128.0	128.0	128.0	128.0	128.0	128.0	128.0	127.5	126.7	126.4	126.5
177.5°	127.8	127.7	127.5	127.1	127.5	127.7	127.8	127.4	126.8	126.5	126.7
180°	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1	127.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	900.6	900.6	900.6	900.6	900.6
2.5°	889.6	893.8	896.4	899.8	908.3
5°	855.5	871.7	876.8	889.6	904.9
7.5°	780.5	829.9	843.6	874.2	898.1
10°	708.1	757.5	781.4	853.8	889.6
12.5°	671.5	700.4	716.6	818.0	877.6
15°	648.5	668.9	680.8	770.3	864.0
17.5°	630.6	645.0	653.6	723.4	845.3
20°	619.5	626.3	634.0	689.4	824.0
22.5°	611.8	607.6	613.5	665.5	795.0
25°	606.7	590.5	597.3	646.8	760.9
27.5°	611.0	575.2	577.7	629.7	725.1
30°	611.8	556.4	557.3	611.8	685.1
32.5°	605.9	536.8	537.7	589.7	639.9
35°	591.4	513.8	513.0	564.1	578.6
37.5°	571.8	489.1	489.1	536.0	511.3
40°	547.9	464.4	467.0	499.4	451.6
42.5°	519.0	438.0	441.4	450.8	407.3
45°	487.4	412.5	415.0	380.9	373.3
47.5°	452.5	386.0	386.9	316.2	362.2
50°	410.7	358.8	355.4	270.9	361.3
52.5°	374.1	329.0	318.7	245.4	328.1
55°	338.3	297.3	275.2	225.8	304.2
57.5°	306.8	256.5	235.2	202.8	299.1
60°	277.8	216.4	200.2	178.1	274.3
62.5°	253.9	186.6	183.2	161.0	248.8
65°	228.3	166.1	165.3	146.5	211.3
67.5°	203.6	152.5	151.7	132.9	161.0
70°	177.2	138.0	136.3	118.4	119.3
72.5°	150.0	121.8	120.1	106.5	98.8
75°	122.7	103.1	102.2	92.9	80.1
77.5°	96.3	81.8	83.5	75.0	58.8
80°	69.0	59.6	61.3	53.7	44.3
82.5°	46.0	39.2	40.9	34.1	29.8
85°	25.6	22.2	23.0	17.9	13.6
87.5°	11.9	10.2	10.2	6.8	4.3
90°	3.7	2.4	2.2	1.5	0.9
92.5°	23.2	16.4	15.0	9.2	3.4
95°	57.0	32.1	29.5	18.8	8.2
97.5°	76.8	35.3	32.9	23.5	14.1
100°	83.9	37.9	35.8	27.3	18.7
102.5°	87.2	40.6	38.6	30.6	22.7
105°	89.7	44.5	42.8	36.1	29.4
107.5°	90.1	50.3	48.7	42.4	36.2
110°	89.5	53.5	52.1	46.4	40.8



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CATALOG NUMBER: SQ4-FA-025U-075D-935-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	89.5	57.4	56.1	50.7	45.3
115°	90.3	63.3	62.0	57.1	52.1
117.5°	92.0	69.0	67.9	63.4	58.9
120°	93.3	72.3	71.3	67.1	62.8
122.5°	95.3	76.3	75.1	70.9	66.6
125°	98.0	81.4	80.3	76.4	72.5
127.5°	100.6	86.2	85.2	81.3	77.3
130°	102.6	89.5	88.4	84.1	79.8
132.5°	104.1	92.1	91.1	86.8	82.6
135°	105.8	95.2	94.2	90.3	86.5
137.5°	108.4	99.1	98.2	94.3	90.5
140°	109.9	101.7	100.9	97.3	93.8
142.5°	111.3	103.7	102.8	99.6	96.4
145°	113.0	106.7	106.0	103.1	100.3
147.5°	115.4	110.4	109.7	106.9	104.2
150°	116.7	112.4	111.8	109.2	106.8
152.5°	117.6	113.7	113.1	111.3	109.4
155°	119.5	116.5	116.1	114.7	113.3
157.5°	121.3	119.3	118.9	117.6	116.2
160°	122.2	120.6	120.3	119.2	118.2
162.5°	123.1	121.9	121.8	120.9	120.1
165°	124.4	123.9	123.7	122.9	122.3
167.5°	125.4	125.0	124.9	124.6	124.2
170°	126.3	126.3	126.2	125.8	125.5
172.5°	126.4	126.4	126.4	126.3	126.2
175°	126.9	127.1	127.1	127.1	127.1
177.5°	126.9	127.1	127.1	127.1	127.1
180°	127.1	127.1	127.1	127.1	127.1



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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	14.14	15.26	14.86	16.00	16.89	16.93	18.06	17.65	18.80	19.68
	3H	14.63	15.64	15.37	16.40	17.31	18.29	19.30	19.02	20.05	20.97
	4H	14.84	15.79	15.59	16.55	17.48	18.74	19.69	19.49	20.45	21.38
	6H	14.97	15.85	15.74	16.62	17.56	19.03	19.91	19.79	20.68	21.62
	8H	14.98	15.82	15.75	16.61	17.55	19.11	19.95	19.88	20.73	21.68
	12H	14.96	15.76	15.74	16.54	17.51	19.15	19.95	19.93	20.73	21.70
4H	2H	15.19	16.15	15.95	16.91	17.84	17.38	18.33	18.13	19.09	20.02
	3H	16.24	17.04	17.01	17.84	18.78	18.90	19.69	19.66	20.49	21.43
	4H	16.53	17.25	17.31	18.05	19.02	19.43	20.15	20.21	20.95	21.92
	6H	16.67	17.30	17.47	18.12	19.10	19.80	20.43	20.60	21.25	22.23
	8H	16.68	17.27	17.49	18.08	19.08	19.91	20.49	20.71	21.31	22.30
	12H	16.66	17.19	17.49	18.03	19.02	19.97	20.50	20.80	21.34	22.33
8H	4H	17.00	17.59	17.81	18.40	19.39	19.57	20.16	20.38	20.98	21.97
	6H	17.27	17.76	18.11	18.62	19.61	20.01	20.50	20.85	21.36	22.35
	8H	17.32	17.75	18.16	18.60	19.61	20.16	20.59	21.01	21.45	22.46
	12H	17.31	17.69	18.16	18.54	19.61	20.27	20.65	21.12	21.49	22.56
12H	4H	17.02	17.54	17.84	18.38	19.38	19.55	20.08	20.38	20.92	21.91
	6H	17.33	17.77	18.18	18.62	19.63	20.01	20.44	20.86	21.30	22.31
	8H	17.41	17.79	18.26	18.64	19.70	20.18	20.56	21.03	21.41	22.47