

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: P933974

Luminaire Tested: SQ4-FA-025U-075D-940-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933974
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-940-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

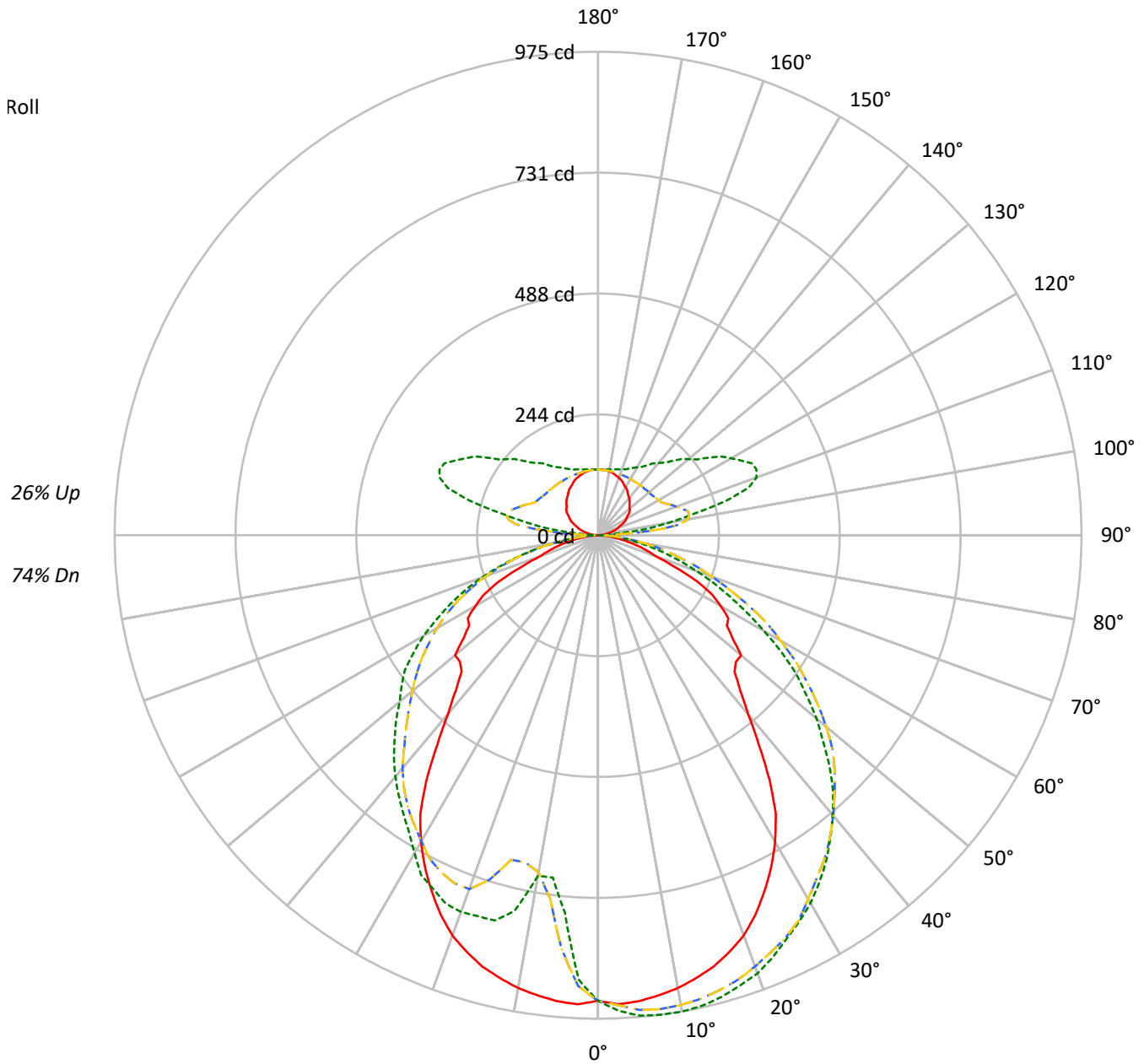
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3293.5 lumens
Efficiency: N/A
Efficacy: 109.8 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: P933974
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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°	8710	8710	8710	8710
5°	8766	8793	8766	6914
10°	8698	8662	8698	6193
15°	8593	8475	8593	7076
20°	8404	8252	8404	7091
25°	8027	7927	8027	6941
30°	7541	7658	7541	6611
35°	6713	7318	6713	6248
40°	5585	6916	5585	5974
45°	4980	6448	4980	5660
50°	5279	5888	5279	5343
55°	4953	5285	4953	5161
60°	5086	4490	5086	4727
65°	4589	3710	4589	4148
70°	3156	2956	3156	3476
75°	2738	2185	2738	2617
80°	2162	1445	2162	1573
85°	1176	765	1176	651

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 7648 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	84.7	2.6
10°-20°	240.6	7.3
20°-30°	371.9	11.3
30°-40°	444.0	13.5
40°-50°	446.6	13.6
50°-60°	388.6	11.8
60°-70°	275.5	8.4
70°-80°	145.7	4.4
80°-90°	36.8	1.1
90°-100°	64.6	2.0
100°-110°	169.8	5.2
110°-120°	176.1	5.3
120°-130°	141.2	4.3
130°-140°	110.8	3.4
140°-150°	85.1	2.6
150°-160°	61.3	1.9
160°-170°	37.5	1.1
170°-180°	12.7	0.4
0°-30°	697.2	21.2
0°-40°	1141.2	34.7
0°-60°	1976.4	60.0
0°-90°	2434.5	73.9
90°-120°	410.5	12.5
90°-150°	747.7	22.7
90°-180°	859.0	26.1
0°-180°	3293.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	939	939	939	939	939	
5°	943	972	943	765	943	89
15°	900	964	900	805	900	253
25°	793	899	793	787	793	364
35°	603	802	603	685	603	373
45°	389	661	389	580	389	312
55°	317	488	317	476	317	291
65°	220	294	220	329	220	210
75°	84	139	84	167	84	88
85°	14	36	14	30	14	19
90°	1	3	1	3	1	1
95°	8	39	8	39	8	9
105°	31	266	31	266	31	32
115°	54	342	54	342	54	54
125°	76	273	76	273	76	67
135°	90	212	90	212	90	70
145°	104	172	104	172	104	65
155°	118	148	118	148	118	54
165°	127	138	127	138	127	36
175°	132	133	132	133	132	13
180°	132	132	132	132	132	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	946.7	946.7	952.1	953.9	953.9	951.2	948.6	951.2	959.2	961.9	961.0
5°	943.1	950.3	960.1	961.9	963.7	962.8	961.0	962.8	971.6	973.4	974.3
7.5°	936.0	949.4	961.9	964.5	967.2	964.5	963.7	965.4	974.3	976.1	976.1
10°	927.2	945.8	960.1	961.9	964.5	961.9	961.9	965.4	974.3	976.1	977.0
12.5°	914.7	940.5	953.9	955.7	959.2	958.3	957.4	961.0	969.9	971.6	971.6
15°	900.5	930.7	943.1	944.9	951.2	949.4	949.4	953.0	962.8	965.4	964.5
17.5°	881.0	918.3	932.5	935.2	939.6	938.7	939.6	943.1	952.1	953.9	954.8
20°	858.8	901.4	918.3	920.9	925.4	925.4	925.4	929.8	938.7	942.3	942.3
22.5°	828.6	883.6	901.4	903.2	908.5	908.5	910.3	916.5	924.5	925.4	925.4
25°	793.1	864.1	879.2	884.5	889.9	892.5	895.2	898.7	901.4	900.5	901.4
27.5°	755.8	839.2	858.8	862.3	869.4	872.1	875.7	876.5	877.4	880.1	878.3
30°	714.0	804.6	833.9	837.5	849.0	850.8	847.2	849.0	853.5	855.2	857.0
32.5°	667.0	753.1	808.2	816.2	826.8	821.5	820.6	823.3	830.4	830.4	832.1
35°	603.0	713.2	784.2	791.3	799.3	793.1	796.6	797.5	802.0	804.6	803.7
37.5°	532.9	678.5	759.3	764.7	770.9	762.9	768.2	770.9	774.4	772.6	772.6
40°	470.7	624.4	730.0	733.6	738.9	732.7	738.0	739.8	741.6	739.8	738.9
42.5°	424.6	564.9	698.9	703.4	699.8	704.3	706.0	709.6	706.9	703.4	703.4
45°	389.0	548.9	665.2	670.5	665.2	672.3	675.0	675.0	667.0	665.2	664.3
47.5°	377.5	516.9	631.5	631.5	628.8	637.7	642.1	635.9	627.9	625.2	625.2
50°	376.6	481.4	585.3	581.7	594.2	604.8	600.4	594.2	587.9	578.2	578.2
52.5°	342.0	437.9	525.8	539.1	558.6	564.9	557.8	551.5	540.9	536.4	532.9
55°	317.1	392.6	471.6	498.3	518.7	526.7	513.4	507.1	491.2	488.5	486.7
57.5°	311.7	326.9	421.9	455.6	480.5	479.6	471.6	460.1	446.8	444.1	443.2
60°	285.9	236.2	368.6	408.6	434.3	431.7	424.6	413.9	401.5	399.7	397.9
62.5°	259.3	171.4	308.1	353.5	389.9	389.0	382.8	366.8	358.0	353.5	350.0
65°	220.2	143.9	219.3	293.9	346.4	348.2	334.9	323.3	313.5	308.1	307.2
67.5°	167.8	117.2	148.3	245.1	304.6	302.8	285.9	280.6	268.2	265.5	260.2
70°	124.3	78.1	103.0	198.9	263.7	259.3	246.0	239.8	228.2	222.0	218.4
72.5°	103.0	63.0	75.5	154.5	222.0	216.7	205.1	198.0	188.3	182.9	179.4
75°	83.5	66.6	57.7	114.6	180.3	176.7	166.1	159.0	151.0	143.9	144.7
77.5°	61.3	62.2	46.2	84.4	143.0	137.6	131.4	122.5	119.0	111.9	111.9
80°	46.2	48.8	34.6	57.7	103.0	103.0	97.7	91.5	85.2	81.7	81.7
82.5°	31.1	31.1	25.8	36.4	70.2	67.5	63.9	62.2	58.6	56.8	56.8
85°	14.2	17.8	16.0	22.2	38.2	40.0	40.0	38.2	37.3	35.5	36.4
87.5°	4.4	8.0	9.8	12.4	19.5	20.4	21.3	21.3	21.3	22.2	22.2
90°	0.9	1.6	2.3	2.5	3.9	5.8	6.7	6.0	4.5	3.4	3.4
92.5°	3.6	9.6	15.6	17.1	24.2	33.5	38.1	33.4	24.0	16.9	16.2
95°	8.5	19.6	30.7	33.5	59.4	94.0	111.3	99.3	75.3	57.4	55.3
97.5°	14.7	24.5	34.3	36.8	80.0	137.6	166.5	159.0	143.8	132.4	128.5
100°	19.5	28.4	37.3	39.5	87.5	151.5	183.5	184.0	185.1	185.9	181.3
102.5°	23.6	31.9	40.2	42.3	90.9	155.8	188.3	197.9	217.2	231.7	227.7
105°	30.6	37.7	44.6	46.4	93.5	156.3	187.7	209.4	252.6	285.0	282.9
107.5°	37.7	44.2	50.8	52.4	94.0	149.4	177.1	207.3	267.6	312.8	313.4
110°	42.5	48.4	54.3	55.8	93.2	143.2	168.2	201.9	269.3	319.9	322.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	47.2	52.8	58.4	59.9	93.2	137.8	160.1	194.6	263.6	315.4	318.8
115°	54.3	59.5	64.6	66.0	94.1	131.7	150.4	183.6	250.1	300.0	304.7
117.5°	61.4	66.1	70.8	71.9	95.9	127.8	143.8	173.8	233.7	278.7	284.0
120°	65.4	69.9	74.3	75.4	97.2	126.5	141.0	168.5	223.3	264.4	269.5
122.5°	69.4	73.9	78.3	79.5	99.3	125.7	139.0	163.7	213.0	250.1	255.0
125°	75.6	79.7	83.7	84.8	102.1	125.2	136.8	157.7	199.7	231.1	235.8
127.5°	80.5	84.7	88.8	89.9	104.9	124.9	134.9	152.9	189.0	216.0	219.9
130°	83.2	87.6	92.1	93.2	106.9	125.1	134.2	150.2	182.3	206.4	209.9
132.5°	86.0	90.5	94.9	96.0	108.5	125.2	133.6	147.9	176.6	198.2	201.4
135°	90.1	94.1	98.2	99.2	110.3	125.1	132.5	144.5	168.5	186.6	189.3
137.5°	94.3	98.3	102.3	103.3	113.0	125.8	132.3	142.4	162.8	178.0	180.4
140°	97.8	101.4	105.1	106.0	114.6	126.0	131.7	140.5	158.1	171.2	173.3
142.5°	100.4	103.8	107.2	108.1	116.0	126.5	131.7	139.4	154.9	166.4	168.3
145°	104.5	107.4	110.5	111.2	117.7	126.5	130.8	137.1	149.7	159.2	160.6
147.5°	108.6	111.4	114.4	115.1	120.3	127.3	130.8	135.8	145.7	153.2	154.3
150°	111.3	113.8	116.5	117.1	121.7	127.8	130.8	135.0	143.4	149.7	150.6
152.5°	114.0	116.0	117.9	118.5	122.5	128.0	130.8	134.4	141.5	147.0	147.7
155°	118.1	119.5	121.0	121.4	124.5	128.7	130.8	133.6	139.4	143.7	144.1
157.5°	121.1	122.5	124.0	124.3	126.5	129.4	130.8	133.0	137.5	140.7	141.1
160°	123.2	124.2	125.4	125.7	127.3	129.6	130.8	132.7	136.5	139.3	139.5
162.5°	125.2	126.0	126.9	127.1	128.3	130.0	130.8	132.4	135.6	138.0	138.2
165°	127.4	128.1	128.9	129.1	129.6	130.4	130.8	132.0	134.3	136.0	136.1
167.5°	129.5	129.8	130.2	130.3	130.7	131.3	131.7	132.4	133.9	135.1	135.2
170°	130.8	131.2	131.5	131.6	131.6	131.7	131.7	132.4	133.9	135.1	135.1
172.5°	131.5	131.6	131.7	131.7	131.7	131.7	131.7	132.3	133.5	134.4	134.3
175°	132.5	132.5	132.5	132.5	132.2	131.9	131.7	132.0	132.8	133.4	133.4
177.5°	132.5	132.5	132.5	132.5	132.3	132.0	131.9	132.1	132.8	133.2	133.1
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	962.8	960.1	962.8	961.0	961.9	959.2	951.2	948.6	951.2	953.9	953.9
5°	974.3	972.5	974.3	974.3	973.4	971.6	962.8	961.0	962.8	963.7	961.9
7.5°	977.9	975.2	977.9	976.1	976.1	974.3	965.4	963.7	964.5	967.2	964.5
10°	977.9	975.2	977.9	977.0	976.1	974.3	965.4	961.9	961.9	964.5	961.9
12.5°	973.4	971.6	973.4	971.6	971.6	969.9	961.0	957.4	958.3	959.2	955.7
15°	966.3	963.7	966.3	964.5	965.4	962.8	953.0	949.4	949.4	951.2	944.9
17.5°	955.7	952.1	955.7	954.8	953.9	952.1	943.1	939.6	938.7	939.6	935.2
20°	943.1	940.5	943.1	942.3	942.3	938.7	929.8	925.4	925.4	925.4	920.9
22.5°	923.6	920.9	923.6	925.4	925.4	924.5	916.5	910.3	908.5	908.5	903.2
25°	901.4	898.7	901.4	901.4	900.5	901.4	898.7	895.2	892.5	889.9	884.5
27.5°	880.1	878.3	880.1	878.3	880.1	877.4	876.5	875.7	872.1	869.4	862.3
30°	858.8	857.0	858.8	857.0	855.2	853.5	849.0	847.2	850.8	849.0	837.5
32.5°	832.1	830.4	832.1	832.1	830.4	830.4	823.3	820.6	821.5	826.8	816.2
35°	804.6	802.0	804.6	803.7	804.6	802.0	797.5	796.6	793.1	799.3	791.3
37.5°	772.6	770.0	772.6	772.6	772.6	774.4	770.9	768.2	762.9	770.9	764.7
40°	739.8	736.2	739.8	738.9	739.8	741.6	739.8	738.0	732.7	738.9	733.6
42.5°	702.5	701.6	702.5	703.4	703.4	706.9	709.6	706.0	704.3	699.8	703.4
45°	662.5	660.8	662.5	664.3	665.2	667.0	675.0	675.0	672.3	665.2	670.5
47.5°	619.9	615.5	619.9	625.2	625.2	627.9	635.9	642.1	637.7	628.8	631.5
50°	574.6	575.5	574.6	578.2	578.2	587.9	594.2	600.4	604.8	594.2	581.7
52.5°	530.2	529.3	530.2	532.9	536.4	540.9	551.5	557.8	564.9	558.6	539.1
55°	485.8	487.6	485.8	486.7	488.5	491.2	507.1	513.4	526.7	518.7	498.3
57.5°	441.4	438.8	441.4	443.2	444.1	446.8	460.1	471.6	479.6	480.5	455.6
60°	389.9	386.4	389.9	397.9	399.7	401.5	413.9	424.6	431.7	434.3	408.6
62.5°	344.6	338.4	344.6	350.0	353.5	358.0	366.8	382.8	389.0	389.9	353.5
65°	296.6	293.9	296.6	307.2	308.1	313.5	323.3	334.9	348.2	346.4	293.9
67.5°	253.1	253.1	253.1	260.2	265.5	268.2	280.6	285.9	302.8	304.6	245.1
70°	213.1	212.2	213.1	218.4	222.0	228.2	239.8	246.0	259.3	263.7	198.9
72.5°	174.9	174.0	174.9	179.4	182.9	188.3	198.0	205.1	216.7	222.0	154.5
75°	141.2	139.4	141.2	144.7	143.9	151.0	159.0	166.1	176.7	180.3	114.6
77.5°	108.3	108.3	108.3	111.9	111.9	119.0	122.5	131.4	137.6	143.0	84.4
80°	80.8	79.9	80.8	81.7	81.7	85.2	91.5	97.7	103.0	103.0	57.7
82.5°	56.8	55.1	56.8	56.8	56.8	58.6	62.2	63.9	67.5	70.2	36.4
85°	35.5	35.5	35.5	36.4	35.5	37.3	38.2	40.0	40.0	38.2	22.2
87.5°	23.1	22.2	23.1	22.2	22.2	21.3	21.3	21.3	20.4	19.5	12.4
90°	3.4	3.4	3.4	3.4	3.4	4.5	6.0	6.7	5.8	3.9	2.5
92.5°	13.5	10.8	13.5	16.2	16.9	24.0	33.4	38.1	33.5	24.2	17.1
95°	47.2	39.1	47.2	55.3	57.4	75.3	99.3	111.3	94.0	59.4	33.5
97.5°	113.0	97.6	113.0	128.5	132.4	143.8	159.0	166.5	137.6	80.0	36.8
100°	162.9	144.5	162.9	181.3	185.9	185.1	184.0	183.5	151.5	87.5	39.5
102.5°	211.9	196.1	211.9	227.7	231.7	217.2	197.9	188.3	155.8	90.9	42.3
105°	274.5	266.0	274.5	282.9	285.0	252.6	209.4	187.7	156.3	93.5	46.4
107.5°	315.4	317.5	315.4	313.4	312.8	267.6	207.3	177.1	149.4	94.0	52.4
110°	331.0	339.8	331.0	322.2	319.9	269.3	201.9	168.2	143.2	93.2	55.8



TEST NUMBER: P933974

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	332.4	346.0	332.4	318.8	315.4	263.6	194.6	160.1	137.8	93.2	59.9
115°	323.6	342.4	323.6	304.7	300.0	250.1	183.6	150.4	131.7	94.1	66.0
117.5°	304.9	325.8	304.9	284.0	278.7	233.7	173.8	143.8	127.8	95.9	71.9
120°	289.8	310.1	289.8	269.5	264.4	223.3	168.5	141.0	126.5	97.2	75.4
122.5°	275.1	295.2	275.1	255.0	250.1	213.0	163.7	139.0	125.7	99.3	79.5
125°	254.2	272.7	254.2	235.8	231.1	199.7	157.7	136.8	125.2	102.1	84.8
127.5°	235.4	250.9	235.4	219.9	216.0	189.0	152.9	134.9	124.9	104.9	89.9
130°	224.3	238.7	224.3	209.9	206.4	182.3	150.2	134.2	125.1	106.9	93.2
132.5°	214.3	227.2	214.3	201.4	198.2	176.6	147.9	133.6	125.2	108.5	96.0
135°	200.5	211.6	200.5	189.3	186.6	168.5	144.5	132.5	125.1	110.3	99.2
137.5°	189.4	198.6	189.4	180.4	178.0	162.8	142.4	132.3	125.8	113.0	103.3
140°	181.8	190.3	181.8	173.3	171.2	158.1	140.5	131.7	126.0	114.6	106.0
142.5°	175.6	182.8	175.6	168.3	166.4	154.9	139.4	131.7	126.5	116.0	108.1
145°	166.1	171.7	166.1	160.6	159.2	149.7	137.1	130.8	126.5	117.7	111.2
147.5°	158.9	163.5	158.9	154.3	153.2	145.7	135.8	130.8	127.3	120.3	115.1
150°	154.3	158.1	154.3	150.6	149.7	143.4	135.0	130.8	127.8	121.7	117.1
152.5°	150.4	153.3	150.4	147.7	147.0	141.5	134.4	130.8	128.0	122.5	118.5
155°	146.0	147.9	146.0	144.1	143.7	139.4	133.6	130.8	128.7	124.5	121.4
157.5°	142.4	143.8	142.4	141.1	140.7	137.5	133.0	130.8	129.4	126.5	124.3
160°	140.3	141.0	140.3	139.5	139.3	136.5	132.7	130.8	129.6	127.3	125.7
162.5°	138.9	139.6	138.9	138.2	138.0	135.6	132.4	130.8	130.0	128.3	127.1
165°	136.9	137.6	136.9	136.1	136.0	134.3	132.0	130.8	130.4	129.6	129.1
167.5°	135.4	135.8	135.4	135.2	135.1	133.9	132.4	131.7	131.3	130.7	130.3
170°	135.1	135.1	135.1	135.1	135.1	133.9	132.4	131.7	131.7	131.6	131.6
172.5°	134.0	133.7	134.0	134.3	134.4	133.5	132.3	131.7	131.7	131.7	131.7
175°	133.4	133.4	133.4	133.4	133.4	132.8	132.0	131.7	131.9	132.2	132.5
177.5°	132.8	132.5	132.8	133.1	133.2	132.8	132.1	131.9	132.0	132.3	132.5
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



TEST NUMBER: P933974

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	952.1	946.7	946.7	937.8	934.3	931.6	927.2	913.8	910.3	906.7	912.1
5°	960.1	950.3	943.1	927.2	913.8	908.5	891.6	859.7	838.4	822.4	813.5
7.5°	961.9	949.4	936.0	911.2	879.2	865.0	813.5	754.9	738.9	724.7	715.8
10°	960.1	945.8	927.2	889.9	814.4	789.5	738.0	699.8	690.1	687.4	690.1
12.5°	953.9	940.5	914.7	852.6	746.9	730.0	699.8	677.6	675.9	680.3	704.3
15°	943.1	930.7	900.5	802.8	709.6	697.2	675.9	667.9	677.6	708.7	780.6
17.5°	932.5	918.3	881.0	754.0	681.2	672.3	657.2	673.2	728.2	770.0	794.0
20°	918.3	901.4	858.8	718.5	660.8	652.8	645.7	717.6	759.3	774.4	787.7
22.5°	901.4	883.6	828.6	693.6	639.4	633.2	637.7	742.5	759.3	770.0	781.5
25°	879.2	864.1	793.1	674.1	622.6	615.5	632.3	739.8	749.6	752.2	775.3
27.5°	858.8	839.2	755.8	656.3	602.2	599.5	636.8	728.2	735.4	738.0	762.9
30°	833.9	804.6	714.0	637.7	580.8	580.0	637.7	714.0	712.3	719.4	744.2
32.5°	808.2	753.1	667.0	614.6	560.4	559.5	631.5	692.7	691.0	700.7	719.4
35°	784.2	713.2	603.0	587.9	534.7	535.6	616.4	667.9	668.8	677.6	689.2
37.5°	759.3	678.5	532.9	558.6	509.8	509.8	595.9	644.8	643.0	645.7	661.6
40°	730.0	624.4	470.7	520.5	486.7	484.0	571.1	619.9	613.7	612.8	635.0
42.5°	698.9	564.9	424.6	469.8	460.1	456.5	540.9	589.7	578.2	580.8	609.3
45°	665.2	548.9	389.0	397.0	432.5	429.9	508.0	555.1	547.1	554.2	583.5
47.5°	631.5	516.9	377.5	329.5	403.2	402.4	471.6	521.3	516.9	524.0	555.1
50°	585.3	481.4	376.6	282.4	370.4	373.9	428.1	488.5	488.5	494.7	527.6
52.5°	525.8	437.9	342.0	255.7	332.2	342.9	389.9	460.1	461.8	468.1	497.4
55°	471.6	392.6	317.1	235.3	286.8	309.9	352.6	430.8	434.3	440.5	467.2
57.5°	421.9	326.9	311.7	211.3	245.1	267.3	319.8	402.4	404.1	409.5	435.2
60°	368.6	236.2	285.9	185.6	208.7	225.6	289.5	368.6	374.8	378.4	400.6
62.5°	308.1	171.4	259.3	167.8	190.9	194.5	264.6	336.6	344.6	347.3	360.6
65°	219.3	143.9	220.2	152.7	172.3	173.2	238.0	303.7	310.8	315.2	325.1
67.5°	148.3	117.2	167.8	138.5	158.1	159.0	212.2	265.5	275.3	278.8	285.0
70°	103.0	78.1	124.3	123.4	142.1	143.9	184.7	230.9	239.8	242.4	246.0
72.5°	75.5	63.0	103.0	111.0	125.2	127.0	156.3	191.8	200.7	203.4	205.1
75°	57.7	66.6	83.5	96.8	106.6	107.4	127.9	156.3	162.5	164.3	165.2
77.5°	46.2	62.2	61.3	78.1	87.0	85.2	100.3	120.8	126.1	126.1	126.1
80°	34.6	48.8	46.2	55.9	63.9	62.2	71.9	86.1	87.9	89.7	88.8
82.5°	25.8	31.1	31.1	35.5	42.6	40.8	48.0	55.9	55.9	55.9	57.7
85°	16.0	17.8	14.2	18.6	24.0	23.1	26.6	30.2	31.1	31.1	29.3
87.5°	9.8	8.0	4.4	7.1	10.7	10.7	12.4	13.3	12.4	12.4	12.4
90°	2.3	1.6	0.9	1.6	2.3	2.5	3.9	5.8	6.7	6.0	4.5
92.5°	15.6	9.6	3.6	9.6	15.6	17.1	24.2	33.5	38.1	33.4	24.0
95°	30.7	19.6	8.5	19.6	30.7	33.5	59.4	94.0	111.3	99.3	75.3
97.5°	34.3	24.5	14.7	24.5	34.3	36.8	80.0	137.6	166.5	159.0	143.8
100°	37.3	28.4	19.5	28.4	37.3	39.5	87.5	151.5	183.5	184.0	185.1
102.5°	40.2	31.9	23.6	31.9	40.2	42.3	90.9	155.8	188.3	197.9	217.2
105°	44.6	37.7	30.6	37.7	44.6	46.4	93.5	156.3	187.7	209.4	252.6
107.5°	50.8	44.2	37.7	44.2	50.8	52.4	94.0	149.4	177.1	207.3	267.6
110°	54.3	48.4	42.5	48.4	54.3	55.8	93.2	143.2	168.2	201.9	269.3



TEST NUMBER: P933974

CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	58.4	52.8	47.2	52.8	58.4	59.9	93.2	137.8	160.1	194.6	263.6
115°	64.6	59.5	54.3	59.5	64.6	66.0	94.1	131.7	150.4	183.6	250.1
117.5°	70.8	66.1	61.4	66.1	70.8	71.9	95.9	127.8	143.8	173.8	233.7
120°	74.3	69.9	65.4	69.9	74.3	75.4	97.2	126.5	141.0	168.5	223.3
122.5°	78.3	73.9	69.4	73.9	78.3	79.5	99.3	125.7	139.0	163.7	213.0
125°	83.7	79.7	75.6	79.7	83.7	84.8	102.1	125.2	136.8	157.7	199.7
127.5°	88.8	84.7	80.5	84.7	88.8	89.9	104.9	124.9	134.9	152.9	189.0
130°	92.1	87.6	83.2	87.6	92.1	93.2	106.9	125.1	134.2	150.2	182.3
132.5°	94.9	90.5	86.0	90.5	94.9	96.0	108.5	125.2	133.6	147.9	176.6
135°	98.2	94.1	90.1	94.1	98.2	99.2	110.3	125.1	132.5	144.5	168.5
137.5°	102.3	98.3	94.3	98.3	102.3	103.3	113.0	125.8	132.3	142.4	162.8
140°	105.1	101.4	97.8	101.4	105.1	106.0	114.6	126.0	131.7	140.5	158.1
142.5°	107.2	103.8	100.4	103.8	107.2	108.1	116.0	126.5	131.7	139.4	154.9
145°	110.5	107.4	104.5	107.4	110.5	111.2	117.7	126.5	130.8	137.1	149.7
147.5°	114.4	111.4	108.6	111.4	114.4	115.1	120.3	127.3	130.8	135.8	145.7
150°	116.5	113.8	111.3	113.8	116.5	117.1	121.7	127.8	130.8	135.0	143.4
152.5°	117.9	116.0	114.0	116.0	117.9	118.5	122.5	128.0	130.8	134.4	141.5
155°	121.0	119.5	118.1	119.5	121.0	121.4	124.5	128.7	130.8	133.6	139.4
157.5°	124.0	122.5	121.1	122.5	124.0	124.3	126.5	129.4	130.8	133.0	137.5
160°	125.4	124.2	123.2	124.2	125.4	125.7	127.3	129.6	130.8	132.7	136.5
162.5°	126.9	126.0	125.2	126.0	126.9	127.1	128.3	130.0	130.8	132.4	135.6
165°	128.9	128.1	127.4	128.1	128.9	129.1	129.6	130.4	130.8	132.0	134.3
167.5°	130.2	129.8	129.5	129.8	130.2	130.3	130.7	131.3	131.7	132.4	133.9
170°	131.5	131.2	130.8	131.2	131.5	131.6	131.6	131.7	131.7	132.4	133.9
172.5°	131.7	131.6	131.5	131.6	131.7	131.7	131.7	131.7	131.7	132.3	133.5
175°	132.5	132.5	132.5	132.5	132.5	132.5	132.2	131.9	131.7	132.0	132.8
177.5°	132.5	132.5	132.5	132.5	132.5	132.5	132.3	132.0	131.9	132.1	132.8
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



TEST NUMBER: P933974
 CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7	938.7
2.5°	905.8	903.2	906.7	897.0	906.7	903.2	905.8	912.1	906.7	910.3	913.8
5°	794.8	790.4	776.2	764.7	776.2	790.4	794.8	813.5	822.4	838.4	859.7
7.5°	710.5	706.9	703.4	696.3	703.4	706.9	710.5	715.8	724.7	738.9	754.9
10°	691.8	692.7	698.1	697.2	698.1	692.7	691.8	690.1	687.4	690.1	699.8
12.5°	739.8	747.8	777.1	775.3	777.1	747.8	739.8	704.3	680.3	675.9	677.6
15°	794.8	797.5	803.7	804.6	803.7	797.5	794.8	780.6	708.7	677.6	667.9
17.5°	800.2	801.1	805.5	805.5	805.5	801.1	800.2	794.0	770.0	728.2	673.2
20°	795.7	797.5	806.4	808.2	806.4	797.5	795.7	787.7	774.4	759.3	717.6
22.5°	794.0	797.5	804.6	803.7	804.6	797.5	794.0	781.5	770.0	759.3	742.5
25°	785.1	785.1	786.0	786.9	786.0	785.1	785.1	775.3	752.2	749.6	739.8
27.5°	766.4	768.2	773.5	772.6	773.5	768.2	766.4	762.9	738.0	735.4	728.2
30°	749.6	747.8	743.3	739.8	743.3	747.8	749.6	744.2	719.4	712.3	714.0
32.5°	721.1	716.7	712.3	709.6	712.3	716.7	721.1	719.4	700.7	691.0	692.7
35°	687.4	688.3	687.4	684.7	687.4	688.3	687.4	689.2	677.6	668.8	667.9
37.5°	663.4	665.2	664.3	660.8	664.3	665.2	663.4	661.6	645.7	643.0	644.8
40°	638.6	639.4	638.6	635.9	638.6	639.4	638.6	635.0	612.8	613.7	619.9
42.5°	614.6	613.7	611.0	609.3	611.0	613.7	614.6	609.3	580.8	578.2	589.7
45°	587.1	587.9	582.6	580.0	582.6	587.9	587.1	583.5	554.2	547.1	555.1
47.5°	559.5	559.5	555.1	552.4	555.1	559.5	559.5	555.1	524.0	516.9	521.3
50°	530.2	529.3	523.1	522.2	523.1	529.3	530.2	527.6	494.7	488.5	488.5
52.5°	496.5	496.5	497.4	499.1	497.4	496.5	496.5	497.4	468.1	461.8	460.1
55°	467.2	468.1	474.3	476.1	474.3	468.1	467.2	467.2	440.5	434.3	430.8
57.5°	437.0	437.0	441.4	441.4	441.4	437.0	437.0	435.2	409.5	404.1	402.4
60°	402.4	404.1	407.7	406.8	407.7	404.1	402.4	400.6	378.4	374.8	368.6
62.5°	365.9	367.7	368.6	366.8	368.6	367.7	365.9	360.6	347.3	344.6	336.6
65°	327.8	329.5	330.4	328.6	330.4	329.5	327.8	325.1	315.2	310.8	303.7
67.5°	288.6	287.7	286.8	290.4	286.8	287.7	288.6	285.0	278.8	275.3	265.5
70°	248.6	248.6	247.8	249.5	247.8	248.6	248.6	246.0	242.4	239.8	230.9
72.5°	206.0	205.1	208.7	206.0	208.7	205.1	206.0	205.1	203.4	200.7	191.8
75°	164.3	166.1	164.3	166.9	164.3	166.1	164.3	165.2	164.3	162.5	156.3
77.5°	125.2	127.0	125.2	125.2	125.2	127.0	125.2	126.1	126.1	126.1	120.8
80°	88.8	87.9	87.9	87.0	87.9	87.9	88.8	88.8	89.7	87.9	86.1
82.5°	56.8	55.9	55.9	57.7	55.9	55.9	56.8	57.7	55.9	55.9	55.9
85°	31.1	32.0	30.2	30.2	30.2	32.0	31.1	29.3	31.1	31.1	30.2
87.5°	11.5	10.7	10.7	10.7	10.7	10.7	11.5	12.4	12.4	12.4	13.3
90°	3.4	3.4	3.4	3.4	3.4	3.4	3.4	4.5	6.0	6.7	5.8
92.5°	16.9	16.2	13.5	10.8	13.5	16.2	16.9	24.0	33.4	38.1	33.5
95°	57.4	55.3	47.2	39.1	47.2	55.3	57.4	75.3	99.3	111.3	94.0
97.5°	132.4	128.5	113.0	97.6	113.0	128.5	132.4	143.8	159.0	166.5	137.6
100°	185.9	181.3	162.9	144.5	162.9	181.3	185.9	185.1	184.0	183.5	151.5
102.5°	231.7	227.7	211.9	196.1	211.9	227.7	231.7	217.2	197.9	188.3	155.8
105°	285.0	282.9	274.5	266.0	274.5	282.9	285.0	252.6	209.4	187.7	156.3
107.5°	312.8	313.4	315.4	317.5	315.4	313.4	312.8	267.6	207.3	177.1	149.4
110°	319.9	322.2	331.0	339.8	331.0	322.2	319.9	269.3	201.9	168.2	143.2



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	315.4	318.8	332.4	346.0	332.4	318.8	315.4	263.6	194.6	160.1	137.8
115°	300.0	304.7	323.6	342.4	323.6	304.7	300.0	250.1	183.6	150.4	131.7
117.5°	278.7	284.0	304.9	325.8	304.9	284.0	278.7	233.7	173.8	143.8	127.8
120°	264.4	269.5	289.8	310.1	289.8	269.5	264.4	223.3	168.5	141.0	126.5
122.5°	250.1	255.0	275.1	295.2	275.1	255.0	250.1	213.0	163.7	139.0	125.7
125°	231.1	235.8	254.2	272.7	254.2	235.8	231.1	199.7	157.7	136.8	125.2
127.5°	216.0	219.9	235.4	250.9	235.4	219.9	216.0	189.0	152.9	134.9	124.9
130°	206.4	209.9	224.3	238.7	224.3	209.9	206.4	182.3	150.2	134.2	125.1
132.5°	198.2	201.4	214.3	227.2	214.3	201.4	198.2	176.6	147.9	133.6	125.2
135°	186.6	189.3	200.5	211.6	200.5	189.3	186.6	168.5	144.5	132.5	125.1
137.5°	178.0	180.4	189.4	198.6	189.4	180.4	178.0	162.8	142.4	132.3	125.8
140°	171.2	173.3	181.8	190.3	181.8	173.3	171.2	158.1	140.5	131.7	126.0
142.5°	166.4	168.3	175.6	182.8	175.6	168.3	166.4	154.9	139.4	131.7	126.5
145°	159.2	160.6	166.1	171.7	166.1	160.6	159.2	149.7	137.1	130.8	126.5
147.5°	153.2	154.3	158.9	163.5	158.9	154.3	153.2	145.7	135.8	130.8	127.3
150°	149.7	150.6	154.3	158.1	154.3	150.6	149.7	143.4	135.0	130.8	127.8
152.5°	147.0	147.7	150.4	153.3	150.4	147.7	147.0	141.5	134.4	130.8	128.0
155°	143.7	144.1	146.0	147.9	146.0	144.1	143.7	139.4	133.6	130.8	128.7
157.5°	140.7	141.1	142.4	143.8	142.4	141.1	140.7	137.5	133.0	130.8	129.4
160°	139.3	139.5	140.3	141.0	140.3	139.5	139.3	136.5	132.7	130.8	129.6
162.5°	138.0	138.2	138.9	139.6	138.9	138.2	138.0	135.6	132.4	130.8	130.0
165°	136.0	136.1	136.9	137.6	136.9	136.1	136.0	134.3	132.0	130.8	130.4
167.5°	135.1	135.2	135.4	135.8	135.4	135.2	135.1	133.9	132.4	131.7	131.3
170°	135.1	135.1	135.1	135.1	135.1	135.1	135.1	133.9	132.4	131.7	131.7
172.5°	134.4	134.3	134.0	133.7	134.0	134.3	134.4	133.5	132.3	131.7	131.7
175°	133.4	133.4	133.4	133.4	133.4	133.4	133.4	132.8	132.0	131.7	131.9
177.5°	133.2	133.1	132.8	132.5	132.8	133.1	133.2	132.8	132.1	131.9	132.0
180°	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5	132.5



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	938.7	938.7	938.7	938.7	938.7
2.5°	927.2	931.6	934.3	937.8	946.7
5°	891.6	908.5	913.8	927.2	943.1
7.5°	813.5	865.0	879.2	911.2	936.0
10°	738.0	789.5	814.4	889.9	927.2
12.5°	699.8	730.0	746.9	852.6	914.7
15°	675.9	697.2	709.6	802.8	900.5
17.5°	657.2	672.3	681.2	754.0	881.0
20°	645.7	652.8	660.8	718.5	858.8
22.5°	637.7	633.2	639.4	693.6	828.6
25°	632.3	615.5	622.6	674.1	793.1
27.5°	636.8	599.5	602.2	656.3	755.8
30°	637.7	580.0	580.8	637.7	714.0
32.5°	631.5	559.5	560.4	614.6	667.0
35°	616.4	535.6	534.7	587.9	603.0
37.5°	595.9	509.8	509.8	558.6	532.9
40°	571.1	484.0	486.7	520.5	470.7
42.5°	540.9	456.5	460.1	469.8	424.6
45°	508.0	429.9	432.5	397.0	389.0
47.5°	471.6	402.4	403.2	329.5	377.5
50°	428.1	373.9	370.4	282.4	376.6
52.5°	389.9	342.9	332.2	255.7	342.0
55°	352.6	309.9	286.8	235.3	317.1
57.5°	319.8	267.3	245.1	211.3	311.7
60°	289.5	225.6	208.7	185.6	285.9
62.5°	264.6	194.5	190.9	167.8	259.3
65°	238.0	173.2	172.3	152.7	220.2
67.5°	212.2	159.0	158.1	138.5	167.8
70°	184.7	143.9	142.1	123.4	124.3
72.5°	156.3	127.0	125.2	111.0	103.0
75°	127.9	107.4	106.6	96.8	83.5
77.5°	100.3	85.2	87.0	78.1	61.3
80°	71.9	62.2	63.9	55.9	46.2
82.5°	48.0	40.8	42.6	35.5	31.1
85°	26.6	23.1	24.0	18.6	14.2
87.5°	12.4	10.7	10.7	7.1	4.4
90°	3.9	2.5	2.3	1.6	0.9
92.5°	24.2	17.1	15.6	9.6	3.6
95°	59.4	33.5	30.7	19.6	8.5
97.5°	80.0	36.8	34.3	24.5	14.7
100°	87.5	39.5	37.3	28.4	19.5
102.5°	90.9	42.3	40.2	31.9	23.6
105°	93.5	46.4	44.6	37.7	30.6
107.5°	94.0	52.4	50.8	44.2	37.7
110°	93.2	55.8	54.3	48.4	42.5



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CATALOG NUMBER: SQ4-FA-025U-075D-940-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	93.2	59.9	58.4	52.8	47.2
115°	94.1	66.0	64.6	59.5	54.3
117.5°	95.9	71.9	70.8	66.1	61.4
120°	97.2	75.4	74.3	69.9	65.4
122.5°	99.3	79.5	78.3	73.9	69.4
125°	102.1	84.8	83.7	79.7	75.6
127.5°	104.9	89.9	88.8	84.7	80.5
130°	106.9	93.2	92.1	87.6	83.2
132.5°	108.5	96.0	94.9	90.5	86.0
135°	110.3	99.2	98.2	94.1	90.1
137.5°	113.0	103.3	102.3	98.3	94.3
140°	114.6	106.0	105.1	101.4	97.8
142.5°	116.0	108.1	107.2	103.8	100.4
145°	117.7	111.2	110.5	107.4	104.5
147.5°	120.3	115.1	114.4	111.4	108.6
150°	121.7	117.1	116.5	113.8	111.3
152.5°	122.5	118.5	117.9	116.0	114.0
155°	124.5	121.4	121.0	119.5	118.1
157.5°	126.5	124.3	124.0	122.5	121.1
160°	127.3	125.7	125.4	124.2	123.2
162.5°	128.3	127.1	126.9	126.0	125.2
165°	129.6	129.1	128.9	128.1	127.4
167.5°	130.7	130.3	130.2	129.8	129.5
170°	131.6	131.6	131.5	131.2	130.8
172.5°	131.7	131.7	131.7	131.6	131.5
175°	132.2	132.5	132.5	132.5	132.5
177.5°	132.3	132.5	132.5	132.5	132.5
180°	132.5	132.5	132.5	132.5	132.5



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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	14.28	15.41	15.00	16.15	17.03	17.08	18.20	17.80	18.95	19.83
	3H	14.78	15.79	15.51	16.54	17.45	18.43	19.44	19.17	20.20	21.11
	4H	14.98	15.93	15.73	16.69	17.62	18.88	19.84	19.63	20.60	21.52
	6H	15.11	15.99	15.88	16.76	17.70	19.17	20.05	19.94	20.82	21.76
	8H	15.12	15.96	15.90	16.75	17.69	19.25	20.09	20.03	20.88	21.82
	12H	15.10	15.90	15.88	16.68	17.65	19.29	20.09	20.08	20.88	21.85
4H	2H	15.34	16.29	16.09	17.05	17.98	17.52	18.47	18.28	19.24	20.16
	3H	16.39	17.18	17.16	17.98	18.92	19.04	19.84	19.81	20.63	21.58
	4H	16.67	17.40	17.46	18.19	19.17	19.57	20.30	20.36	21.09	22.06
	6H	16.81	17.44	17.62	18.26	19.24	19.94	20.57	20.75	21.39	22.37
	8H	16.83	17.41	17.63	18.23	19.22	20.05	20.64	20.86	21.45	22.45
	12H	16.81	17.33	17.63	18.17	19.17	20.12	20.64	20.94	21.48	22.48
8H	4H	17.14	17.73	17.95	18.55	19.54	19.72	20.30	20.52	21.12	22.11
	6H	17.42	17.90	18.25	18.76	19.75	20.16	20.64	20.99	21.50	22.49
	8H	17.46	17.89	18.31	18.75	19.76	20.31	20.74	21.15	21.59	22.60
	12H	17.46	17.84	18.31	18.68	19.75	20.41	20.79	21.26	21.64	22.70
12H	4H	17.16	17.69	17.99	18.53	19.52	19.70	20.22	20.52	21.06	22.06
	6H	17.48	17.91	18.32	18.76	19.77	20.16	20.59	21.00	21.44	22.45
	8H	17.56	17.94	18.40	18.78	19.85	20.33	20.71	21.17	21.55	22.62