

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: P934651

Luminaire Tested: SQ4-FA-075U-050D-930-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

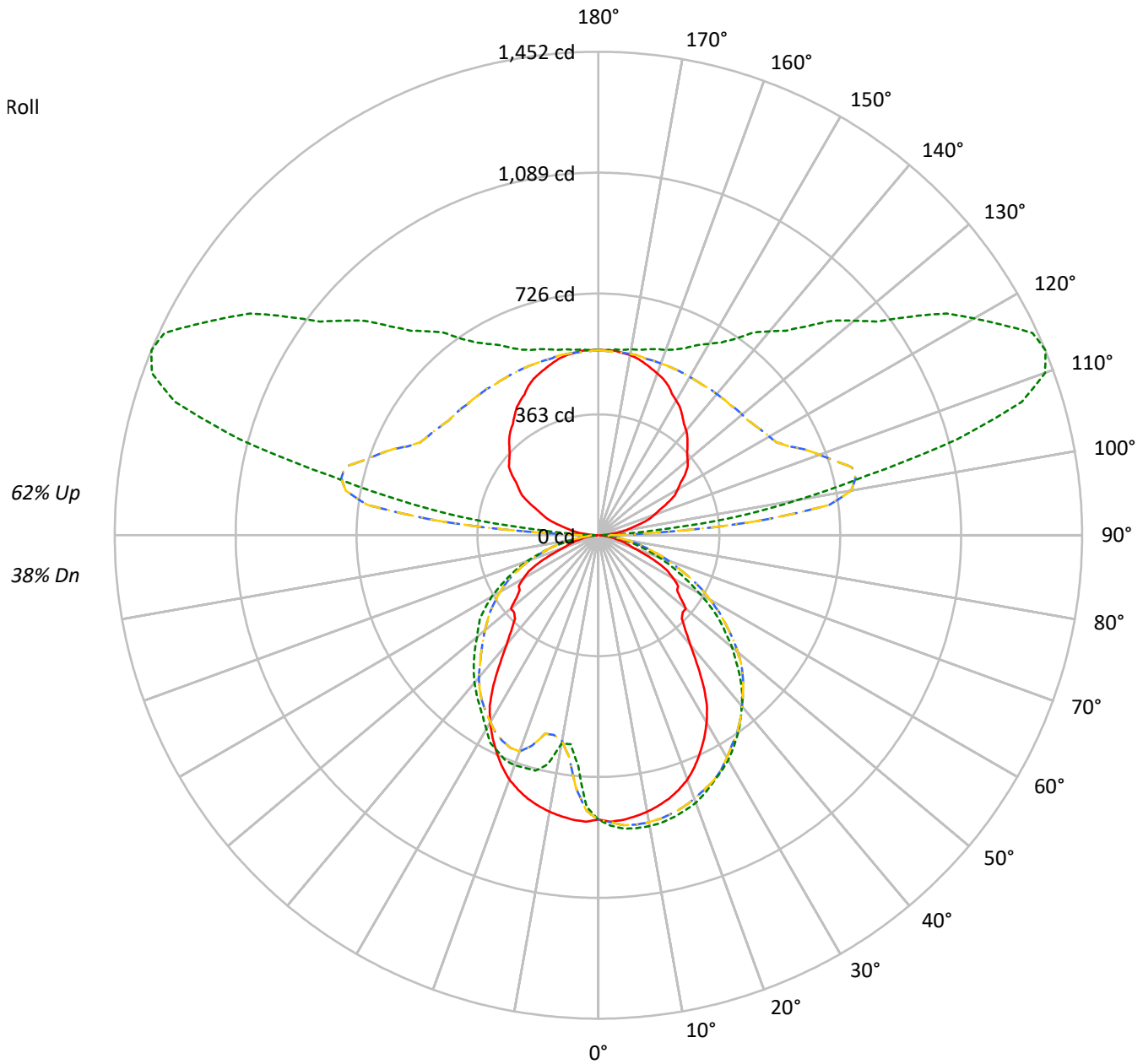
Test Method: LM-79-2019  
Report Number: P934651  
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-930-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5822.6 lumens  
Efficiency: N/A  
Efficacy: 112.8 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

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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°	5282	5282	5282	5282
5°	5319	5332	5319	4192
10°	5282	5252	5282	3755
15°	5223	5139	5223	4291
20°	5112	5003	5112	4300
25°	4885	4807	4885	4208
30°	4595	4644	4595	4009
35°	4094	4437	4094	3789
40°	3410	4194	3410	3623
45°	3044	3910	3044	3432
50°	3232	3571	3232	3240
55°	3038	3205	3038	3129
60°	3128	2722	3128	2865
65°	2831	2250	2831	2515
70°	1956	1793	1956	2108
75°	1710	1325	1710	1587
80°	1367	876	1367	955
85°	769	464	769	395

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4670 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	77.1	1.3
10°-20°	218.8	3.8
20°-30°	338.3	5.8
30°-40°	403.8	6.9
40°-50°	406.2	7.0
50°-60°	353.4	6.1
60°-70°	250.6	4.3
70°-80°	132.6	2.3
80°-90°	35.1	0.6
90°-100°	271.2	4.7
100°-110°	713.0	12.2
110°-120°	739.3	12.7
120°-130°	593.0	10.2
130°-140°	465.3	8.0
140°-150°	357.1	6.1
150°-160°	257.2	4.4
160°-170°	157.4	2.7
170°-180°	53.2	0.9
0°-30°	634.2	10.9
0°-40°	1038.0	17.8
0°-60°	1797.7	30.9
0°-90°	2216.0	38.1
90°-120°	1723.4	29.6
90°-150°	3138.8	53.9
90°-180°	3607.0	61.9
0°-180°	5822.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	854	854	854	854	854	
5°	858	884	858	696	858	81
15°	819	876	819	732	819	230
25°	721	818	721	716	721	331
35°	548	729	548	623	548	339
45°	354	601	354	528	354	283
55°	288	444	288	433	288	265
65°	200	267	200	299	200	191
75°	76	127	76	152	76	80
85°	13	32	13	28	13	17
90°	4	14	4	14	4	4
95°	36	164	36	164	36	40
105°	128	1116	128	1116	128	136
115°	228	1438	228	1438	228	225
125°	317	1145	317	1145	317	282
135°	378	888	378	888	378	293
145°	439	721	439	721	439	275
155°	496	621	496	621	496	228
165°	535	578	535	578	535	151
175°	556	560	556	560	556	53
180°	556	556	556	556	556	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	861.1	861.1	866.0	867.6	867.6	865.2	862.7	865.2	872.5	874.9	874.1
5°	857.8	864.3	873.3	874.9	876.5	875.7	874.1	875.7	883.7	885.4	886.2
7.5°	851.4	863.5	874.9	877.3	879.7	877.3	876.5	878.1	886.2	887.8	887.8
10°	843.3	860.3	873.3	874.9	877.3	874.9	874.9	878.1	886.2	887.8	888.6
12.5°	832.1	855.4	867.6	869.2	872.5	871.7	870.8	874.1	882.1	883.7	883.7
15°	819.1	846.6	857.8	859.5	865.2	863.5	863.5	866.8	875.7	878.1	877.3
17.5°	801.3	835.3	848.2	850.6	854.6	853.8	854.6	857.8	866.0	867.6	868.4
20°	781.2	819.9	835.3	837.7	841.7	841.7	841.7	845.8	853.8	857.0	857.0
22.5°	753.7	803.7	819.9	821.5	826.4	826.4	828.0	833.7	840.9	841.7	841.7
25°	721.3	786.0	799.7	804.6	809.4	811.8	814.2	817.5	819.9	819.1	819.9
27.5°	687.4	763.3	781.2	784.4	790.9	793.3	796.5	797.3	798.1	800.5	798.9
30°	649.5	731.9	758.5	761.7	772.2	773.9	770.6	772.2	776.3	777.9	779.6
32.5°	606.7	685.0	735.1	742.4	752.1	747.2	746.4	748.8	755.3	755.3	756.9
35°	548.5	648.7	713.3	719.7	727.0	721.3	724.6	725.4	729.4	731.9	731.1
37.5°	484.7	617.2	690.7	695.5	701.2	693.9	698.8	701.2	704.4	702.8	702.8
40°	428.2	567.9	664.0	667.2	672.1	666.4	671.3	672.9	674.5	672.9	672.1
42.5°	386.2	513.8	635.7	639.8	636.5	640.6	642.2	645.5	643.0	639.8	639.8
45°	353.8	499.2	605.1	609.9	605.1	611.5	613.9	613.9	606.7	605.1	604.3
47.5°	343.3	470.2	574.4	574.4	571.9	580.0	584.0	578.4	571.1	568.7	568.7
50°	342.5	437.8	532.3	529.1	540.4	550.1	546.0	540.4	534.8	525.9	525.9
52.5°	311.0	398.2	478.2	490.3	508.1	513.8	507.3	501.6	491.9	487.9	484.7
55°	288.4	357.0	429.0	453.2	471.8	479.0	466.9	461.2	446.7	444.3	442.7
57.5°	283.5	297.3	383.7	414.4	437.0	436.2	429.0	418.4	406.3	403.9	403.1
60°	260.1	214.9	335.3	371.6	395.0	392.6	386.2	376.4	365.1	363.5	361.9
62.5°	235.8	155.9	280.3	321.5	354.6	353.8	348.2	333.6	325.5	321.5	318.3
65°	200.3	130.9	199.5	267.4	315.0	316.6	304.6	294.1	285.1	280.3	279.5
67.5°	152.7	106.6	134.9	223.0	277.1	275.4	260.1	255.3	244.0	241.5	236.7
70°	113.1	71.1	93.7	180.9	239.9	235.8	223.8	218.1	207.6	202.0	198.7
72.5°	93.7	57.3	68.7	140.5	202.0	197.1	186.6	180.1	171.3	166.4	163.2
75°	76.0	60.5	52.5	104.2	164.0	160.8	151.0	144.6	137.3	130.9	131.7
77.5°	55.7	56.5	42.0	76.8	130.1	125.2	119.6	111.5	108.2	101.8	101.8
80°	42.0	44.4	31.5	52.5	93.7	93.7	88.9	83.2	77.6	74.4	74.4
82.5°	28.3	28.3	23.4	33.1	63.8	61.4	58.1	56.5	53.3	51.7	51.7
85°	12.9	16.1	14.5	20.2	34.8	36.4	36.4	34.8	34.0	32.3	33.1
87.5°	4.0	7.3	8.9	11.3	17.7	18.5	19.4	19.4	19.4	20.2	20.2
90°	3.7	6.7	9.7	10.4	16.4	24.3	28.3	25.2	19.0	14.2	14.2
92.5°	14.9	40.3	65.7	72.0	101.3	140.3	159.8	140.0	100.5	70.9	68.1
95°	35.8	82.3	128.7	140.4	249.3	394.5	467.1	416.8	316.2	240.8	232.3
97.5°	62.0	102.9	143.9	154.2	335.8	577.9	699.0	667.2	603.7	556.0	539.7
100°	82.1	119.3	156.5	165.8	367.3	636.0	770.3	772.6	777.3	780.8	761.4
102.5°	99.3	134.0	168.7	177.4	381.7	654.2	790.5	830.9	912.0	972.7	956.1
105°	128.5	157.9	187.3	194.6	392.4	656.3	788.2	879.0	1060.5	1196.7	1187.8
107.5°	158.4	185.7	213.1	219.9	394.4	627.1	743.4	870.1	1123.3	1313.2	1315.4
110°	178.5	203.2	227.9	234.1	391.4	601.2	706.1	847.6	1130.8	1343.1	1352.4



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	198.3	221.8	245.4	251.3	391.5	578.6	672.1	817.0	1106.7	1324.0	1338.3
115°	228.1	249.9	271.6	277.0	395.2	552.6	631.4	771.0	1050.1	1259.4	1279.2
117.5°	257.6	277.4	297.1	302.1	402.5	536.4	603.4	729.4	981.3	1170.2	1192.1
120°	274.8	293.4	312.0	316.6	408.5	530.9	592.2	707.3	937.4	1110.1	1131.4
122.5°	291.6	310.4	329.1	333.8	417.1	528.1	583.6	687.2	894.5	1049.9	1071.0
125°	317.3	334.4	351.6	355.8	428.6	525.7	574.3	662.3	838.4	970.4	989.8
127.5°	338.3	355.6	372.8	377.1	440.2	524.4	566.4	642.0	793.2	906.6	923.0
130°	349.5	368.1	386.6	391.3	448.7	525.2	563.5	630.8	765.3	866.3	881.4
132.5°	361.0	379.7	398.2	402.9	455.5	525.7	560.8	621.0	741.6	831.9	845.4
135°	378.2	395.2	412.1	416.4	463.0	525.2	556.3	606.7	707.7	783.3	795.0
137.5°	395.8	412.5	429.3	433.5	474.2	528.5	555.6	598.2	683.5	747.5	757.1
140°	410.3	425.8	441.2	445.1	481.1	529.0	552.9	589.8	663.5	718.8	727.7
142.5°	421.6	435.9	450.2	453.7	486.8	530.9	552.9	585.3	650.0	698.6	706.3
145°	438.8	451.2	463.6	466.7	494.2	530.9	549.3	575.8	628.7	668.3	674.1
147.5°	455.9	468.0	480.1	483.2	505.2	534.6	549.3	570.0	611.7	643.0	647.8
150°	467.1	478.0	489.0	491.8	510.9	536.5	549.3	566.8	602.0	628.4	632.4
152.5°	478.7	487.0	495.3	497.4	514.6	537.7	549.3	564.3	594.3	616.9	619.8
155°	495.9	502.0	508.1	509.7	522.8	540.4	549.3	561.2	585.1	603.1	605.0
157.5°	508.5	514.6	520.5	522.0	531.1	543.2	549.3	558.6	577.1	591.1	592.5
160°	517.1	521.8	526.4	527.6	534.8	544.4	549.3	557.2	573.1	585.1	585.9
162.5°	525.7	529.3	532.7	533.6	538.8	545.8	549.3	556.0	569.4	579.5	580.2
165°	535.0	538.3	541.4	542.2	544.5	547.6	549.3	554.1	563.7	570.9	571.7
167.5°	543.6	545.2	546.6	547.0	549.0	551.7	552.9	556.1	562.4	567.2	567.5
170°	549.3	550.8	552.2	552.6	552.7	552.9	552.9	556.1	562.4	567.2	567.2
172.5°	552.2	552.5	552.9	552.9	552.9	552.9	552.9	555.4	560.4	564.2	563.9
175°	556.3	556.3	556.3	556.3	555.2	553.7	552.9	554.6	557.7	560.1	560.1
177.5°	556.3	556.3	556.3	556.3	555.4	554.3	553.7	555.0	557.5	559.4	559.0
180°	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	875.7	873.3	875.7	874.1	874.9	872.5	865.2	862.7	865.2	867.6	867.6
5°	886.2	884.5	886.2	886.2	885.4	883.7	875.7	874.1	875.7	876.5	874.9
7.5°	889.4	887.0	889.4	887.8	887.8	886.2	878.1	876.5	877.3	879.7	877.3
10°	889.4	887.0	889.4	888.6	887.8	886.2	878.1	874.9	874.9	877.3	874.9
12.5°	885.4	883.7	885.4	883.7	883.7	882.1	874.1	870.8	871.7	872.5	869.2
15°	878.9	876.5	878.9	877.3	878.1	875.7	866.8	863.5	863.5	865.2	859.5
17.5°	869.2	866.0	869.2	868.4	867.6	866.0	857.8	854.6	853.8	854.6	850.6
20°	857.8	855.4	857.8	857.0	857.0	853.8	845.8	841.7	841.7	841.7	837.7
22.5°	840.1	837.7	840.1	841.7	841.7	840.9	833.7	828.0	826.4	826.4	821.5
25°	819.9	817.5	819.9	819.9	819.1	819.9	817.5	814.2	811.8	809.4	804.6
27.5°	800.5	798.9	800.5	798.9	800.5	798.1	797.3	796.5	793.3	790.9	784.4
30°	781.2	779.6	781.2	779.6	777.9	776.3	772.2	770.6	773.9	772.2	761.7
32.5°	756.9	755.3	756.9	756.9	755.3	755.3	748.8	746.4	747.2	752.1	742.4
35°	731.9	729.4	731.9	731.1	731.9	729.4	725.4	724.6	721.3	727.0	719.7
37.5°	702.8	700.4	702.8	702.8	702.8	704.4	701.2	698.8	693.9	701.2	695.5
40°	672.9	669.7	672.9	672.1	672.9	674.5	672.9	671.3	666.4	672.1	667.2
42.5°	638.9	638.1	638.9	639.8	639.8	643.0	645.5	642.2	640.6	636.5	639.8
45°	602.7	601.0	602.7	604.3	605.1	606.7	613.9	613.9	611.5	605.1	609.9
47.5°	563.9	559.8	563.9	568.7	568.7	571.1	578.4	584.0	580.0	571.9	574.4
50°	522.7	523.5	522.7	525.9	525.9	534.8	540.4	546.0	550.1	540.4	529.1
52.5°	482.3	481.5	482.3	484.7	487.9	491.9	501.6	507.3	513.8	508.1	490.3
55°	441.9	443.5	441.9	442.7	444.3	446.7	461.2	466.9	479.0	471.8	453.2
57.5°	401.5	399.1	401.5	403.1	403.9	406.3	418.4	429.0	436.2	437.0	414.4
60°	354.6	351.4	354.6	361.9	363.5	365.1	376.4	386.2	392.6	395.0	371.6
62.5°	313.4	307.8	313.4	318.3	321.5	325.5	333.6	348.2	353.8	354.6	321.5
65°	269.8	267.4	269.8	279.5	280.3	285.1	294.1	304.6	316.6	315.0	267.4
67.5°	230.2	230.2	230.2	236.7	241.5	244.0	255.3	260.1	275.4	277.1	223.0
70°	193.8	193.0	193.8	198.7	202.0	207.6	218.1	223.8	235.8	239.9	180.9
72.5°	159.2	158.4	159.2	163.2	166.4	171.3	180.1	186.6	197.1	202.0	140.5
75°	128.5	126.8	128.5	131.7	130.9	137.3	144.6	151.0	160.8	164.0	104.2
77.5°	98.5	98.5	98.5	101.8	101.8	108.2	111.5	119.6	125.2	130.1	76.8
80°	73.5	72.7	73.5	74.4	74.4	77.6	83.2	88.9	93.7	93.7	52.5
82.5°	51.7	50.1	51.7	51.7	51.7	53.3	56.5	58.1	61.4	63.8	33.1
85°	32.3	32.3	32.3	33.1	32.3	34.0	34.8	36.4	36.4	34.8	20.2
87.5°	21.0	20.2	21.0	20.2	20.2	19.4	19.4	19.4	18.5	17.7	11.3
90°	14.2	14.2	14.2	14.2	14.2	19.0	25.2	28.3	24.3	16.4	10.4
92.5°	56.8	45.5	56.8	68.1	70.9	100.5	140.0	159.8	140.3	101.3	72.0
95°	198.1	163.9	198.1	232.3	240.8	316.2	416.8	467.1	394.5	249.3	140.4
97.5°	474.7	409.6	474.7	539.7	556.0	603.7	667.2	699.0	577.9	335.8	154.2
100°	683.8	606.3	683.8	761.4	780.8	777.3	772.6	770.3	636.0	367.3	165.8
102.5°	889.7	823.3	889.7	956.1	972.7	912.0	830.9	790.5	654.2	381.7	177.4
105°	1152.1	1116.4	1152.1	1187.8	1196.7	1060.5	879.0	788.2	656.3	392.4	194.6
107.5°	1324.0	1332.6	1324.0	1315.4	1313.2	1123.3	870.1	743.4	627.1	394.4	219.9
110°	1389.5	1426.7	1389.5	1352.4	1343.1	1130.8	847.6	706.1	601.2	391.4	234.1





TEST NUMBER: P934651

CATALOG NUMBER: SQ4-FA-075U-050D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1395.4	1452.5	1395.4	1338.3	1324.0	1106.7	817.0	672.1	578.6	391.5	251.3
115°	1358.4	1437.5	1358.4	1279.2	1259.4	1050.1	771.0	631.4	552.6	395.2	277.0
117.5°	1279.9	1367.7	1279.9	1192.1	1170.2	981.3	729.4	603.4	536.4	402.5	302.1
120°	1216.7	1302.0	1216.7	1131.4	1110.1	937.4	707.3	592.2	530.9	408.5	316.6
122.5°	1155.1	1239.3	1155.1	1071.0	1049.9	894.5	687.2	583.6	528.1	417.1	333.8
125°	1067.3	1144.8	1067.3	989.8	970.4	838.4	662.3	574.3	525.7	428.6	355.8
127.5°	988.3	1053.7	988.3	923.0	906.6	793.2	642.0	566.4	524.4	440.2	377.1
130°	941.8	1002.1	941.8	881.4	866.3	765.3	630.8	563.5	525.2	448.7	391.3
132.5°	899.5	953.6	899.5	845.4	831.9	741.6	621.0	560.8	525.7	455.5	402.9
135°	841.6	888.3	841.6	795.0	783.3	707.7	606.7	556.3	525.2	463.0	416.4
137.5°	795.2	833.4	795.2	757.1	747.5	683.5	598.2	555.6	528.5	474.2	433.5
140°	763.4	799.1	763.4	727.7	718.8	663.5	589.8	552.9	529.0	481.1	445.1
142.5°	737.0	767.7	737.0	706.3	698.6	650.0	585.3	552.9	530.9	486.8	453.7
145°	697.4	720.6	697.4	674.1	668.3	628.7	575.8	549.3	530.9	494.2	466.7
147.5°	667.0	686.2	667.0	647.8	643.0	611.7	570.0	549.3	534.6	505.2	483.2
150°	647.9	663.5	647.9	632.4	628.4	602.0	566.8	549.3	536.5	510.9	491.8
152.5°	631.6	643.4	631.6	619.8	616.9	594.3	564.3	549.3	537.7	514.6	497.4
155°	612.8	620.6	612.8	605.0	603.1	585.1	561.2	549.3	540.4	522.8	509.7
157.5°	597.9	603.4	597.9	592.5	591.1	577.1	558.6	549.3	543.2	531.1	522.0
160°	589.0	592.2	589.0	585.9	585.1	573.1	557.2	549.3	544.4	534.8	527.6
162.5°	583.2	586.2	583.2	580.2	579.5	569.4	556.0	549.3	545.8	538.8	533.6
165°	574.9	578.0	574.9	571.7	570.9	563.7	554.1	549.3	547.6	544.5	542.2
167.5°	568.8	570.1	568.8	567.5	567.2	562.4	556.1	552.9	551.7	549.0	547.0
170°	567.2	567.2	567.2	567.2	567.2	562.4	556.1	552.9	552.9	552.7	552.6
172.5°	562.7	561.5	562.7	563.9	564.2	560.4	555.4	552.9	552.9	552.9	552.9
175°	560.1	560.1	560.1	560.1	560.1	557.7	554.6	552.9	553.7	555.2	556.3
177.5°	557.7	556.3	557.7	559.0	559.4	557.5	555.0	553.7	554.3	555.4	556.3
180°	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3



TEST NUMBER: P934651

CATALOG NUMBER: SQ4-FA-075U-050D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	866.0	861.1	861.1	853.0	849.8	847.4	843.3	831.3	828.0	824.8	829.6
5°	873.3	864.3	857.8	843.3	831.3	826.4	811.0	782.0	762.5	748.0	740.0
7.5°	874.9	863.5	851.4	828.8	799.7	786.8	740.0	686.6	672.1	659.2	651.1
10°	873.3	860.3	843.3	809.4	740.8	718.1	671.3	636.5	627.6	625.2	627.6
12.5°	867.6	855.4	832.1	775.5	679.3	664.0	636.5	616.4	614.7	618.8	640.6
15°	857.8	846.6	819.1	730.2	645.5	634.1	614.7	607.5	616.4	644.6	710.1
17.5°	848.2	835.3	801.3	685.8	619.6	611.5	597.8	612.3	662.4	700.4	722.1
20°	835.3	819.9	781.2	653.5	601.0	593.7	587.2	652.7	690.7	704.4	716.5
22.5°	819.9	803.7	753.7	630.9	581.6	576.0	580.0	675.3	690.7	700.4	710.9
25°	799.7	786.0	721.3	613.1	566.3	559.8	575.2	672.9	681.7	684.2	705.2
27.5°	781.2	763.3	687.4	597.0	547.7	545.2	579.2	662.4	668.9	671.3	693.9
30°	758.5	731.9	649.5	580.0	528.3	527.5	580.0	649.5	647.9	654.3	676.9
32.5°	735.1	685.0	606.7	559.0	509.7	508.9	574.4	630.1	628.5	637.3	654.3
35°	713.3	648.7	548.5	534.8	486.3	487.1	560.6	607.5	608.3	616.4	626.8
37.5°	690.7	617.2	484.7	508.1	463.7	463.7	542.0	586.4	584.8	587.2	601.8
40°	664.0	567.9	428.2	473.4	442.7	440.3	519.4	563.9	558.2	557.4	577.6
42.5°	635.7	513.8	386.2	427.4	418.4	415.2	491.9	536.4	525.9	528.3	554.2
45°	605.1	499.2	353.8	361.1	393.4	391.0	462.0	504.8	497.6	504.0	530.7
47.5°	574.4	470.2	343.3	299.7	366.7	365.9	429.0	474.2	470.2	476.6	504.8
50°	532.3	437.8	342.5	256.9	336.9	340.1	389.4	444.3	444.3	449.9	479.9
52.5°	478.2	398.2	311.0	232.6	302.1	311.8	354.6	418.4	420.0	425.8	452.3
55°	429.0	357.0	288.4	214.1	260.9	281.9	320.7	391.8	395.0	400.7	424.9
57.5°	383.7	297.3	283.5	192.2	223.0	243.1	290.8	365.9	367.5	372.4	395.8
60°	335.3	214.9	260.1	168.8	189.8	205.2	263.3	335.3	340.9	344.1	364.3
62.5°	280.3	155.9	235.8	152.7	173.7	176.9	240.7	306.2	313.4	315.8	327.9
65°	199.5	130.9	200.3	138.9	156.7	157.5	216.5	276.2	282.7	286.8	295.7
67.5°	134.9	106.6	152.7	126.0	143.8	144.6	193.0	241.5	250.5	253.7	259.3
70°	93.7	71.1	113.1	112.3	129.3	130.9	168.0	210.1	218.1	220.5	223.8
72.5°	68.7	57.3	93.7	100.9	113.9	115.6	142.2	174.5	182.6	185.0	186.6
75°	52.5	60.5	76.0	88.1	96.9	97.7	116.4	142.2	147.8	149.4	150.2
77.5°	42.0	56.5	55.7	71.1	79.2	77.6	91.3	109.9	114.7	114.7	114.7
80°	31.5	44.4	42.0	50.9	58.1	56.5	65.4	78.4	80.0	81.6	80.8
82.5°	23.4	28.3	28.3	32.3	38.8	37.2	43.6	50.9	50.9	50.9	52.5
85°	14.5	16.1	12.9	16.9	21.8	21.0	24.3	27.5	28.3	28.3	26.7
87.5°	8.9	7.3	4.0	6.4	9.7	9.7	11.3	12.1	11.3	11.3	11.3
90°	9.7	6.7	3.7	6.7	9.7	10.4	16.4	24.3	28.3	25.2	19.0
92.5°	65.7	40.3	14.9	40.3	65.7	72.0	101.3	140.3	159.8	140.0	100.5
95°	128.7	82.3	35.8	82.3	128.7	140.4	249.3	394.5	467.1	416.8	316.2
97.5°	143.9	102.9	62.0	102.9	143.9	154.2	335.8	577.9	699.0	667.2	603.7
100°	156.5	119.3	82.1	119.3	156.5	165.8	367.3	636.0	770.3	772.6	777.3
102.5°	168.7	134.0	99.3	134.0	168.7	177.4	381.7	654.2	790.5	830.9	912.0
105°	187.3	157.9	128.5	157.9	187.3	194.6	392.4	656.3	788.2	879.0	1060.5
107.5°	213.1	185.7	158.4	185.7	213.1	219.9	394.4	627.1	743.4	870.1	1123.3
110°	227.9	203.2	178.5	203.2	227.9	234.1	391.4	601.2	706.1	847.6	1130.8



TEST NUMBER: P934651

CATALOG NUMBER: SQ4-FA-075U-050D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	245.4	221.8	198.3	221.8	245.4	251.3	391.5	578.6	672.1	817.0	1106.7
115°	271.6	249.9	228.1	249.9	271.6	277.0	395.2	552.6	631.4	771.0	1050.1
117.5°	297.1	277.4	257.6	277.4	297.1	302.1	402.5	536.4	603.4	729.4	981.3
120°	312.0	293.4	274.8	293.4	312.0	316.6	408.5	530.9	592.2	707.3	937.4
122.5°	329.1	310.4	291.6	310.4	329.1	333.8	417.1	528.1	583.6	687.2	894.5
125°	351.6	334.4	317.3	334.4	351.6	355.8	428.6	525.7	574.3	662.3	838.4
127.5°	372.8	355.6	338.3	355.6	372.8	377.1	440.2	524.4	566.4	642.0	793.2
130°	386.6	368.1	349.5	368.1	386.6	391.3	448.7	525.2	563.5	630.8	765.3
132.5°	398.2	379.7	361.0	379.7	398.2	402.9	455.5	525.7	560.8	621.0	741.6
135°	412.1	395.2	378.2	395.2	412.1	416.4	463.0	525.2	556.3	606.7	707.7
137.5°	429.3	412.5	395.8	412.5	429.3	433.5	474.2	528.5	555.6	598.2	683.5
140°	441.2	425.8	410.3	425.8	441.2	445.1	481.1	529.0	552.9	589.8	663.5
142.5°	450.2	435.9	421.6	435.9	450.2	453.7	486.8	530.9	552.9	585.3	650.0
145°	463.6	451.2	438.8	451.2	463.6	466.7	494.2	530.9	549.3	575.8	628.7
147.5°	480.1	468.0	455.9	468.0	480.1	483.2	505.2	534.6	549.3	570.0	611.7
150°	489.0	478.0	467.1	478.0	489.0	491.8	510.9	536.5	549.3	566.8	602.0
152.5°	495.3	487.0	478.7	487.0	495.3	497.4	514.6	537.7	549.3	564.3	594.3
155°	508.1	502.0	495.9	502.0	508.1	509.7	522.8	540.4	549.3	561.2	585.1
157.5°	520.5	514.6	508.5	514.6	520.5	522.0	531.1	543.2	549.3	558.6	577.1
160°	526.4	521.8	517.1	521.8	526.4	527.6	534.8	544.4	549.3	557.2	573.1
162.5°	532.7	529.3	525.7	529.3	532.7	533.6	538.8	545.8	549.3	556.0	569.4
165°	541.4	538.3	535.0	538.3	541.4	542.2	544.5	547.6	549.3	554.1	563.7
167.5°	546.6	545.2	543.6	545.2	546.6	547.0	549.0	551.7	552.9	556.1	562.4
170°	552.2	550.8	549.3	550.8	552.2	552.6	552.7	552.9	552.9	556.1	562.4
172.5°	552.9	552.5	552.2	552.5	552.9	552.9	552.9	552.9	552.9	555.4	560.4
175°	556.3	556.3	556.3	556.3	556.3	556.3	555.2	553.7	552.9	554.6	557.7
177.5°	556.3	556.3	556.3	556.3	556.3	556.3	555.4	554.3	553.7	555.0	557.5
180°	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3



TEST NUMBER: P934651  
 CATALOG NUMBER: SQ4-FA-075U-050D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	824.0	821.5	824.8	815.8	824.8	821.5	824.0	829.6	824.8	828.0	831.3
5°	723.0	718.9	706.0	695.5	706.0	718.9	723.0	740.0	748.0	762.5	782.0
7.5°	646.3	643.0	639.8	633.3	639.8	643.0	646.3	651.1	659.2	672.1	686.6
10°	629.3	630.1	634.9	634.1	634.9	630.1	629.3	627.6	625.2	627.6	636.5
12.5°	672.9	680.1	706.8	705.2	706.8	680.1	672.9	640.6	618.8	614.7	616.4
15°	723.0	725.4	731.1	731.9	731.1	725.4	723.0	710.1	644.6	616.4	607.5
17.5°	727.8	728.6	732.7	732.7	732.7	728.6	727.8	722.1	700.4	662.4	612.3
20°	723.8	725.4	733.5	735.1	733.5	725.4	723.8	716.5	704.4	690.7	652.7
22.5°	722.1	725.4	731.9	731.1	731.9	725.4	722.1	710.9	700.4	690.7	675.3
25°	714.1	714.1	714.9	715.7	714.9	714.1	714.1	705.2	684.2	681.7	672.9
27.5°	697.2	698.8	703.6	702.8	703.6	698.8	697.2	693.9	671.3	668.9	662.4
30°	681.7	680.1	676.1	672.9	676.1	680.1	681.7	676.9	654.3	647.9	649.5
32.5°	656.0	651.9	647.9	645.5	647.9	651.9	656.0	654.3	637.3	628.5	630.1
35°	625.2	626.0	625.2	622.8	625.2	626.0	625.2	626.8	616.4	608.3	607.5
37.5°	603.5	605.1	604.3	601.0	604.3	605.1	603.5	601.8	587.2	584.8	586.4
40°	580.8	581.6	580.8	578.4	580.8	581.6	580.8	577.6	557.4	558.2	563.9
42.5°	559.0	558.2	555.8	554.2	555.8	558.2	559.0	554.2	528.3	525.9	536.4
45°	534.0	534.8	529.9	527.5	529.9	534.8	534.0	530.7	504.0	497.6	504.8
47.5°	508.9	508.9	504.8	502.4	504.8	508.9	508.9	504.8	476.6	470.2	474.2
50°	482.3	481.5	475.8	475.0	475.8	481.5	482.3	479.9	449.9	444.3	444.3
52.5°	451.5	451.5	452.3	454.0	452.3	451.5	451.5	452.3	425.8	420.0	418.4
55°	424.9	425.8	431.4	433.0	431.4	425.8	424.9	424.9	400.7	395.0	391.8
57.5°	397.4	397.4	401.5	401.5	401.5	397.4	397.4	395.8	372.4	367.5	365.9
60°	365.9	367.5	370.7	369.9	370.7	367.5	365.9	364.3	344.1	340.9	335.3
62.5°	332.8	334.4	335.3	333.6	335.3	334.4	332.8	327.9	315.8	313.4	306.2
65°	298.1	299.7	300.5	298.9	300.5	299.7	298.1	295.7	286.8	282.7	276.2
67.5°	262.5	261.7	260.9	264.2	260.9	261.7	262.5	259.3	253.7	250.5	241.5
70°	226.2	226.2	225.4	227.0	225.4	226.2	226.2	223.8	220.5	218.1	210.1
72.5°	187.4	186.6	189.8	187.4	189.8	186.6	187.4	186.6	185.0	182.6	174.5
75°	149.4	151.0	149.4	151.8	149.4	151.0	149.4	150.2	149.4	147.8	142.2
77.5°	113.9	115.6	113.9	113.9	113.9	115.6	113.9	114.7	114.7	114.7	109.9
80°	80.8	80.0	80.0	79.2	80.0	80.0	80.8	80.8	81.6	80.0	78.4
82.5°	51.7	50.9	50.9	52.5	50.9	50.9	51.7	52.5	50.9	50.9	50.9
85°	28.3	29.1	27.5	27.5	27.5	29.1	28.3	26.7	28.3	28.3	27.5
87.5°	10.5	9.7	9.7	9.7	9.7	9.7	10.5	11.3	11.3	11.3	12.1
90°	14.2	14.2	14.2	14.2	14.2	14.2	14.2	19.0	25.2	28.3	24.3
92.5°	70.9	68.1	56.8	45.5	56.8	68.1	70.9	100.5	140.0	159.8	140.3
95°	240.8	232.3	198.1	163.9	198.1	232.3	240.8	316.2	416.8	467.1	394.5
97.5°	556.0	539.7	474.7	409.6	474.7	539.7	556.0	603.7	667.2	699.0	577.9
100°	780.8	761.4	683.8	606.3	683.8	761.4	780.8	777.3	772.6	770.3	636.0
102.5°	972.7	956.1	889.7	823.3	889.7	956.1	972.7	912.0	830.9	790.5	654.2
105°	1196.7	1187.8	1152.1	1116.4	1152.1	1187.8	1196.7	1060.5	879.0	788.2	656.3
107.5°	1313.2	1315.4	1324.0	1332.6	1324.0	1315.4	1313.2	1123.3	870.1	743.4	627.1
110°	1343.1	1352.4	1389.5	1426.7	1389.5	1352.4	1343.1	1130.8	847.6	706.1	601.2



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1324.0	1338.3	1395.4	1452.5	1395.4	1338.3	1324.0	1106.7	817.0	672.1	578.6
115°	1259.4	1279.2	1358.4	1437.5	1358.4	1279.2	1259.4	1050.1	771.0	631.4	552.6
117.5°	1170.2	1192.1	1279.9	1367.7	1279.9	1192.1	1170.2	981.3	729.4	603.4	536.4
120°	1110.1	1131.4	1216.7	1302.0	1216.7	1131.4	1110.1	937.4	707.3	592.2	530.9
122.5°	1049.9	1071.0	1155.1	1239.3	1155.1	1071.0	1049.9	894.5	687.2	583.6	528.1
125°	970.4	989.8	1067.3	1144.8	1067.3	989.8	970.4	838.4	662.3	574.3	525.7
127.5°	906.6	923.0	988.3	1053.7	988.3	923.0	906.6	793.2	642.0	566.4	524.4
130°	866.3	881.4	941.8	1002.1	941.8	881.4	866.3	765.3	630.8	563.5	525.2
132.5°	831.9	845.4	899.5	953.6	899.5	845.4	831.9	741.6	621.0	560.8	525.7
135°	783.3	795.0	841.6	888.3	841.6	795.0	783.3	707.7	606.7	556.3	525.2
137.5°	747.5	757.1	795.2	833.4	795.2	757.1	747.5	683.5	598.2	555.6	528.5
140°	718.8	727.7	763.4	799.1	763.4	727.7	718.8	663.5	589.8	552.9	529.0
142.5°	698.6	706.3	737.0	767.7	737.0	706.3	698.6	650.0	585.3	552.9	530.9
145°	668.3	674.1	697.4	720.6	697.4	674.1	668.3	628.7	575.8	549.3	530.9
147.5°	643.0	647.8	667.0	686.2	667.0	647.8	643.0	611.7	570.0	549.3	534.6
150°	628.4	632.4	647.9	663.5	647.9	632.4	628.4	602.0	566.8	549.3	536.5
152.5°	616.9	619.8	631.6	643.4	631.6	619.8	616.9	594.3	564.3	549.3	537.7
155°	603.1	605.0	612.8	620.6	612.8	605.0	603.1	585.1	561.2	549.3	540.4
157.5°	591.1	592.5	597.9	603.4	597.9	592.5	591.1	577.1	558.6	549.3	543.2
160°	585.1	585.9	589.0	592.2	589.0	585.9	585.1	573.1	557.2	549.3	544.4
162.5°	579.5	580.2	583.2	586.2	583.2	580.2	579.5	569.4	556.0	549.3	545.8
165°	570.9	571.7	574.9	578.0	574.9	571.7	570.9	563.7	554.1	549.3	547.6
167.5°	567.2	567.5	568.8	570.1	568.8	567.5	567.2	562.4	556.1	552.9	551.7
170°	567.2	567.2	567.2	567.2	567.2	567.2	567.2	562.4	556.1	552.9	552.9
172.5°	564.2	563.9	562.7	561.5	562.7	563.9	564.2	560.4	555.4	552.9	552.9
175°	560.1	560.1	560.1	560.1	560.1	560.1	560.1	557.7	554.6	552.9	553.7
177.5°	559.4	559.0	557.7	556.3	557.7	559.0	559.4	557.5	555.0	553.7	554.3
180°	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3	556.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	853.8	853.8	853.8	853.8	853.8
2.5°	843.3	847.4	849.8	853.0	861.1
5°	811.0	826.4	831.3	843.3	857.8
7.5°	740.0	786.8	799.7	828.8	851.4
10°	671.3	718.1	740.8	809.4	843.3
12.5°	636.5	664.0	679.3	775.5	832.1
15°	614.7	634.1	645.5	730.2	819.1
17.5°	597.8	611.5	619.6	685.8	801.3
20°	587.2	593.7	601.0	653.5	781.2
22.5°	580.0	576.0	581.6	630.9	753.7
25°	575.2	559.8	566.3	613.1	721.3
27.5°	579.2	545.2	547.7	597.0	687.4
30°	580.0	527.5	528.3	580.0	649.5
32.5°	574.4	508.9	509.7	559.0	606.7
35°	560.6	487.1	486.3	534.8	548.5
37.5°	542.0	463.7	463.7	508.1	484.7
40°	519.4	440.3	442.7	473.4	428.2
42.5°	491.9	415.2	418.4	427.4	386.2
45°	462.0	391.0	393.4	361.1	353.8
47.5°	429.0	365.9	366.7	299.7	343.3
50°	389.4	340.1	336.9	256.9	342.5
52.5°	354.6	311.8	302.1	232.6	311.0
55°	320.7	281.9	260.9	214.1	288.4
57.5°	290.8	243.1	223.0	192.2	283.5
60°	263.3	205.2	189.8	168.8	260.1
62.5°	240.7	176.9	173.7	152.7	235.8
65°	216.5	157.5	156.7	138.9	200.3
67.5°	193.0	144.6	143.8	126.0	152.7
70°	168.0	130.9	129.3	112.3	113.1
72.5°	142.2	115.6	113.9	100.9	93.7
75°	116.4	97.7	96.9	88.1	76.0
77.5°	91.3	77.6	79.2	71.1	55.7
80°	65.4	56.5	58.1	50.9	42.0
82.5°	43.6	37.2	38.8	32.3	28.3
85°	24.3	21.0	21.8	16.9	12.9
87.5°	11.3	9.7	9.7	6.4	4.0
90°	16.4	10.4	9.7	6.7	3.7
92.5°	101.3	72.0	65.7	40.3	14.9
95°	249.3	140.4	128.7	82.3	35.8
97.5°	335.8	154.2	143.9	102.9	62.0
100°	367.3	165.8	156.5	119.3	82.1
102.5°	381.7	177.4	168.7	134.0	99.3
105°	392.4	194.6	187.3	157.9	128.5
107.5°	394.4	219.9	213.1	185.7	158.4
110°	391.4	234.1	227.9	203.2	178.5



TEST NUMBER: P934651

CATALOG NUMBER: SQ4-FA-075U-050D-930-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	391.5	251.3	245.4	221.8	198.3
115°	395.2	277.0	271.6	249.9	228.1
117.5°	402.5	302.1	297.1	277.4	257.6
120°	408.5	316.6	312.0	293.4	274.8
122.5°	417.1	333.8	329.1	310.4	291.6
125°	428.6	355.8	351.6	334.4	317.3
127.5°	440.2	377.1	372.8	355.6	338.3
130°	448.7	391.3	386.6	368.1	349.5
132.5°	455.5	402.9	398.2	379.7	361.0
135°	463.0	416.4	412.1	395.2	378.2
137.5°	474.2	433.5	429.3	412.5	395.8
140°	481.1	445.1	441.2	425.8	410.3
142.5°	486.8	453.7	450.2	435.9	421.6
145°	494.2	466.7	463.6	451.2	438.8
147.5°	505.2	483.2	480.1	468.0	455.9
150°	510.9	491.8	489.0	478.0	467.1
152.5°	514.6	497.4	495.3	487.0	478.7
155°	522.8	509.7	508.1	502.0	495.9
157.5°	531.1	522.0	520.5	514.6	508.5
160°	534.8	527.6	526.4	521.8	517.1
162.5°	538.8	533.6	532.7	529.3	525.7
165°	544.5	542.2	541.4	538.3	535.0
167.5°	549.0	547.0	546.6	545.2	543.6
170°	552.7	552.6	552.2	550.8	549.3
172.5°	552.9	552.9	552.9	552.5	552.2
175°	555.2	556.3	556.3	556.3	556.3
177.5°	555.4	556.3	556.3	556.3	556.3
180°	556.3	556.3	556.3	556.3	556.3



TEST NUMBER: P934651  
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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	9.37	10.13	10.42	11.19	12.62	12.19	12.96	13.25	14.01	15.45
	3H	9.84	10.52	10.90	11.59	13.04	13.53	14.21	14.59	15.28	16.73
	4H	10.02	10.67	11.10	11.74	13.20	13.97	14.62	15.04	15.68	17.14
	6H	10.14	10.74	11.22	11.81	13.28	14.25	14.84	15.33	15.91	17.38
	8H	10.14	10.70	11.23	11.79	13.26	14.32	14.88	15.40	15.97	17.44
	12H	10.10	10.64	11.20	11.73	13.21	14.35	14.89	15.44	15.97	17.46
4H	2H	10.39	11.04	11.47	12.10	13.56	12.59	13.24	13.67	14.31	15.76
	3H	11.41	11.95	12.49	13.04	14.51	14.09	14.63	15.17	15.72	17.19
	4H	11.68	12.17	12.77	13.26	14.75	14.61	15.10	15.70	16.19	17.68
	6H	11.80	12.22	12.90	13.33	14.82	14.97	15.39	16.07	16.50	17.98
	8H	11.80	12.20	12.90	13.30	14.80	15.07	15.47	16.17	16.57	18.07
	12H	11.76	12.12	12.88	13.24	14.74	15.12	15.48	16.24	16.59	18.10
8H	4H	12.12	12.52	13.22	13.62	15.12	14.72	15.12	15.83	16.22	17.72
	6H	12.38	12.71	13.50	13.85	15.35	15.16	15.48	16.28	16.63	18.12
	8H	12.42	12.71	13.55	13.83	15.35	15.31	15.59	16.44	16.72	18.23
	12H	12.40	12.65	13.54	13.77	15.33	15.40	15.65	16.53	16.77	18.33
12H	4H	12.12	12.48	13.24	13.60	15.10	14.68	15.04	15.80	16.16	17.66
	6H	12.44	12.73	13.57	13.85	15.37	15.15	15.44	16.28	16.56	18.08
	8H	12.50	12.75	13.64	13.87	15.43	15.31	15.56	16.44	16.68	18.24