

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: P935150

Luminaire Tested: SQ4-FA-100U-075D-930-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

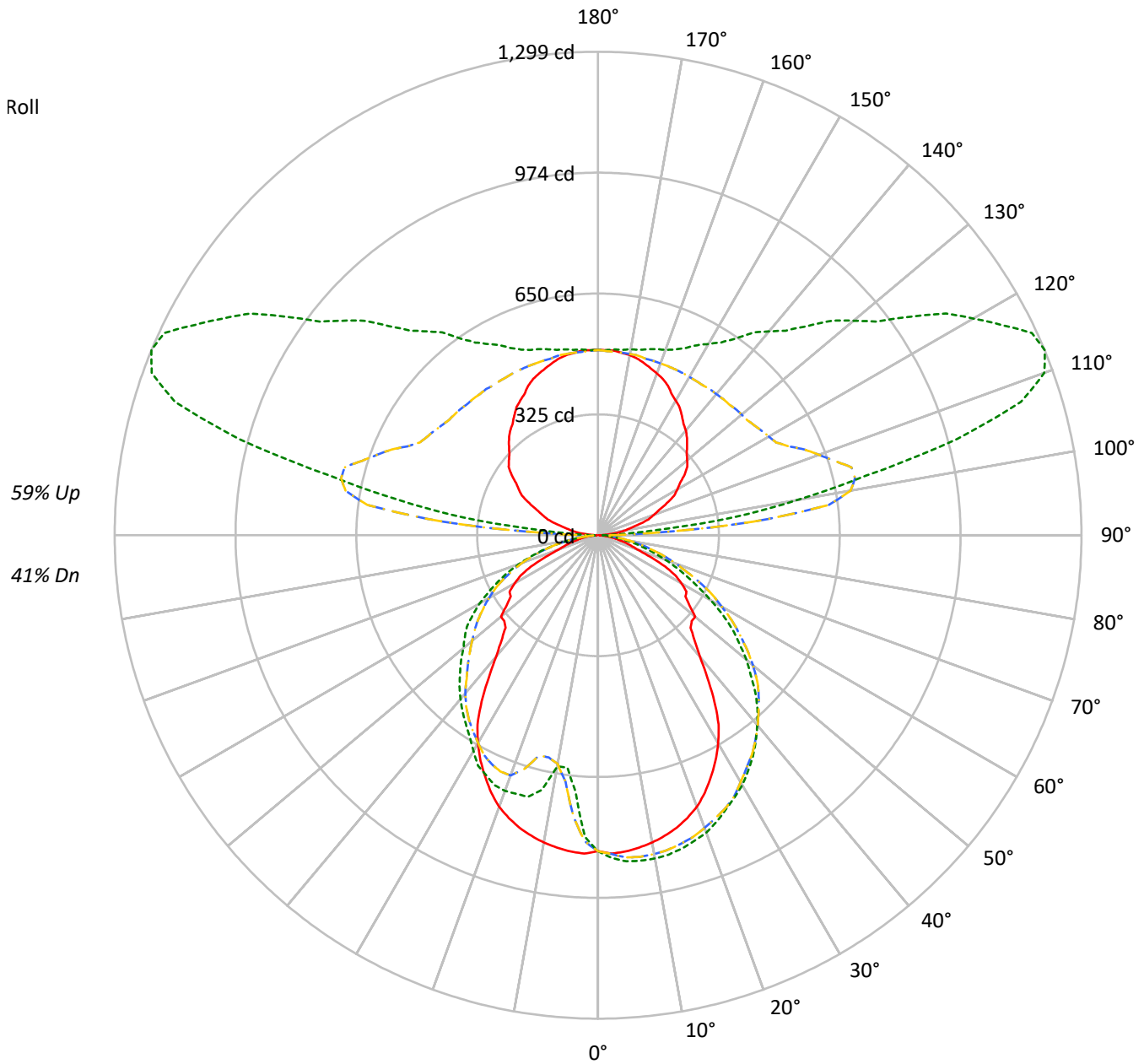
Test Method: LM-79-2019  
Report Number: P935150  
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-100U-075D-930-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5429.0 lumens  
Efficiency: N/A  
Efficacy: 110.3 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: General Diffuse  
  
Input Watts (W): 49.2  
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: P935150  
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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	0
RCR																		
0	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	10

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	7877	7877	7877	7877
5°	7927	7951	7927	6252
10°	7865	7833	7865	5599
15°	7771	7663	7771	6399
20°	7600	7462	7600	6412
25°	7258	7168	7258	6276
30°	6820	6925	6820	5978
35°	6071	6617	6071	5650
40°	5051	6255	5051	5402
45°	4504	5830	4504	5117
50°	4775	5324	4775	4831
55°	4480	4779	4480	4666
60°	4600	4060	4600	4275
65°	4149	3355	4149	3751
70°	2853	2673	2853	3143
75°	2476	1977	2476	2367
80°	1956	1307	1956	1423
85°	1060	692	1060	588

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 6915 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	76.6	1.4
10°-20°	217.6	4.0
20°-30°	336.3	6.2
30°-40°	401.5	7.4
40°-50°	403.9	7.4
50°-60°	351.4	6.5
60°-70°	249.1	4.6
70°-80°	131.8	2.4
80°-90°	34.7	0.6
90°-100°	242.6	4.5
100°-110°	637.8	11.7
110°-120°	661.3	12.2
120°-130°	530.4	9.8
130°-140°	416.2	7.7
140°-150°	319.5	5.9
150°-160°	230.1	4.2
160°-170°	140.8	2.6
170°-180°	47.6	0.9
0°-30°	630.5	11.6
0°-40°	1032.0	19.0
0°-60°	1787.3	32.9
0°-90°	2202.9	40.6
90°-120°	1541.7	28.4
90°-150°	2807.8	51.7
90°-180°	3226.0	59.4
0°-180°	5429.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	849	849	849	849	849	
5°	853	879	853	692	853	81
15°	814	871	814	728	814	229
25°	717	813	717	712	717	329
35°	545	725	545	619	545	337
45°	352	598	352	524	352	282
55°	287	441	287	430	287	263
65°	199	266	199	297	199	190
75°	76	126	76	151	76	79
85°	13	32	13	27	13	17
90°	3	13	3	13	3	3
95°	32	147	32	147	32	36
105°	115	999	115	999	115	122
115°	204	1286	204	1286	204	202
125°	284	1024	284	1024	284	252
135°	338	795	338	795	338	262
145°	392	645	392	645	392	246
155°	444	555	444	555	444	204
165°	479	517	479	517	479	135
175°	498	501	498	501	498	47
180°	498	498	498	498	498	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	856.1	856.1	861.0	862.6	862.6	860.2	857.8	860.2	867.4	869.8	869.0
5°	852.9	859.4	868.2	869.8	871.4	870.6	869.0	870.6	878.6	880.2	881.1
7.5°	846.4	858.6	869.8	872.2	874.6	872.2	871.4	873.0	881.1	882.7	882.7
10°	838.4	855.3	868.2	869.8	872.2	869.8	869.8	873.0	881.1	882.7	883.5
12.5°	827.2	850.5	862.6	864.2	867.4	866.6	865.8	869.0	877.0	878.6	878.6
15°	814.3	841.6	852.9	854.5	860.2	858.6	858.6	861.8	870.6	873.0	872.2
17.5°	796.7	830.4	843.2	845.6	849.7	848.9	849.7	852.9	861.0	862.6	863.4
20°	776.6	815.1	830.4	832.8	836.8	836.8	836.8	840.8	848.9	852.1	852.1
22.5°	749.3	799.1	815.1	816.7	821.5	821.5	823.2	828.8	836.0	836.8	836.8
25°	717.2	781.4	795.1	799.9	804.7	807.1	809.5	812.7	815.1	814.3	815.1
27.5°	683.4	758.9	776.6	779.8	786.2	788.6	791.8	792.6	793.4	795.9	794.2
30°	645.7	727.6	754.1	757.3	767.7	769.4	766.1	767.7	771.8	773.4	775.0
32.5°	603.1	681.0	730.8	738.0	747.7	742.9	742.1	744.5	750.9	750.9	752.5
35°	545.3	644.9	709.1	715.6	722.8	717.2	720.4	721.2	725.2	727.6	726.8
37.5°	481.9	613.6	686.6	691.5	697.1	689.9	694.7	697.1	700.3	698.7	698.7
40°	425.7	564.6	660.1	663.4	668.2	662.6	667.4	669.0	670.6	669.0	668.2
42.5°	383.9	510.8	632.0	636.1	632.8	636.9	638.5	641.7	639.3	636.1	636.1
45°	351.8	496.3	601.5	606.3	601.5	608.0	610.4	610.4	603.1	601.5	600.7
47.5°	341.4	467.4	571.0	571.0	568.6	576.6	580.6	575.0	567.8	565.4	565.4
50°	340.6	435.3	529.3	526.0	537.3	546.9	542.9	537.3	531.7	522.8	522.8
52.5°	309.2	396.0	475.5	487.5	505.2	510.8	504.4	498.7	489.1	485.1	481.9
55°	286.8	355.0	426.5	450.6	469.0	476.3	464.2	458.6	444.1	441.7	440.1
57.5°	281.9	295.6	381.5	412.0	434.5	433.7	426.5	416.0	404.0	401.6	400.8
60°	258.6	213.6	333.3	369.5	392.7	390.3	383.9	374.3	363.0	361.4	359.8
62.5°	234.5	155.0	278.6	319.7	352.6	351.8	346.2	331.7	323.7	319.7	316.5
65°	199.1	130.1	198.3	265.8	313.3	314.9	302.8	292.4	283.5	278.6	277.8
67.5°	151.8	106.0	134.1	221.6	275.4	273.8	258.6	253.7	242.5	240.1	235.3
70°	112.4	70.7	93.1	179.9	238.5	234.5	222.4	216.8	206.4	200.8	197.5
72.5°	93.1	57.0	68.3	139.7	200.8	195.9	185.5	179.1	170.2	165.4	162.2
75°	75.5	60.2	52.2	103.6	163.0	159.8	150.2	143.7	136.5	130.1	130.9
77.5°	55.4	56.2	41.8	76.3	129.3	124.5	118.8	110.8	107.6	101.2	101.2
80°	41.8	44.2	31.3	52.2	93.1	93.1	88.3	82.7	77.1	73.9	73.9
82.5°	28.1	28.1	23.3	32.9	63.4	61.0	57.8	56.2	53.0	51.4	51.4
85°	12.8	16.1	14.5	20.1	34.5	36.1	36.1	34.5	33.7	32.1	32.9
87.5°	4.0	7.2	8.8	11.2	17.7	18.5	19.3	19.3	19.3	20.1	20.1
90°	3.4	6.0	8.7	9.3	14.7	21.8	25.4	22.6	16.9	12.7	12.7
92.5°	13.3	36.1	58.8	64.5	90.7	125.5	142.9	125.3	89.9	63.4	60.9
95°	32.0	73.6	115.2	125.6	223.0	352.8	417.8	372.8	282.9	215.4	207.8
97.5°	55.4	92.1	128.8	138.0	300.4	517.0	625.2	596.8	539.9	497.3	482.8
100°	73.5	106.7	140.0	148.3	328.6	568.9	689.1	691.1	695.2	698.4	681.0
102.5°	88.8	119.9	150.9	158.7	341.5	585.2	707.1	743.3	815.8	870.1	855.2
105°	114.9	141.2	167.4	174.0	351.1	587.1	705.1	786.3	948.7	1070.5	1062.5
107.5°	141.6	166.1	190.6	196.7	352.8	560.9	665.0	778.3	1004.8	1174.7	1176.6
110°	159.6	181.8	203.9	209.4	350.1	537.8	631.6	758.2	1011.5	1201.4	1209.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	177.4	198.4	219.5	224.8	350.3	517.5	601.2	730.8	989.9	1184.3	1197.1
115°	204.0	223.5	242.9	247.8	353.5	494.4	564.8	689.7	939.3	1126.6	1144.3
117.5°	230.5	248.1	265.8	270.2	360.1	479.9	539.8	652.4	877.8	1046.8	1066.4
120°	245.8	262.4	279.0	283.2	365.4	475.0	529.7	632.7	838.6	993.0	1012.1
122.5°	260.9	277.7	294.5	298.6	373.1	472.4	522.0	614.7	800.1	939.2	958.0
125°	283.9	299.2	314.5	318.3	383.4	470.2	513.7	592.5	749.9	868.0	885.4
127.5°	302.6	318.0	333.5	337.3	393.8	469.0	506.7	574.3	709.5	810.9	825.6
130°	312.6	329.2	345.9	350.0	401.3	469.8	504.0	564.3	684.6	774.9	788.4
132.5°	323.0	339.6	356.2	360.4	407.4	470.2	501.6	555.5	663.3	744.1	756.3
135°	338.4	353.5	368.7	372.4	414.2	469.8	497.7	542.8	633.0	700.7	711.1
137.5°	354.0	369.1	384.0	387.8	424.1	472.7	497.0	535.1	611.4	668.7	677.2
140°	367.1	380.9	394.7	398.1	430.3	473.2	494.6	527.6	593.5	643.0	650.9
142.5°	377.1	389.9	402.6	405.8	435.5	474.9	494.6	523.6	581.5	624.9	631.8
145°	392.4	403.6	414.7	417.5	442.1	475.0	491.4	515.0	562.3	597.8	603.1
147.5°	407.8	418.7	429.4	432.2	451.9	478.2	491.4	510.0	547.2	575.2	579.5
150°	417.8	427.6	437.4	439.9	457.1	480.0	491.4	507.1	538.5	562.1	565.6
152.5°	428.2	435.5	443.0	444.9	460.4	481.0	491.4	504.8	531.6	551.7	554.4
155°	443.6	449.0	454.6	455.9	467.7	483.5	491.4	502.0	523.4	539.4	541.1
157.5°	454.9	460.3	465.6	466.9	475.1	485.9	491.4	499.6	516.2	528.7	529.9
160°	462.6	466.8	470.9	471.9	478.4	487.0	491.4	498.5	512.7	523.4	524.1
162.5°	470.2	473.4	476.5	477.3	482.0	488.2	491.4	497.4	509.3	518.3	519.0
165°	478.6	481.4	484.2	484.9	487.1	489.9	491.4	495.7	504.3	510.7	511.4
167.5°	486.3	487.7	489.0	489.3	491.1	493.4	494.6	497.5	503.1	507.3	507.7
170°	491.4	492.6	494.0	494.3	494.4	494.6	494.6	497.5	503.1	507.3	507.3
172.5°	494.0	494.3	494.6	494.6	494.6	494.6	494.6	496.9	501.3	504.7	504.4
175°	497.7	497.7	497.7	497.7	496.7	495.3	494.6	496.1	498.9	501.0	501.0
177.5°	497.7	497.7	497.7	497.7	496.9	495.9	495.3	496.4	498.7	500.3	500.0
180°	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	870.6	868.2	870.6	869.0	869.8	867.4	860.2	857.8	860.2	862.6	862.6
5°	881.1	879.4	881.1	881.1	880.2	878.6	870.6	869.0	870.6	871.4	869.8
7.5°	884.3	881.9	884.3	882.7	882.7	881.1	873.0	871.4	872.2	874.6	872.2
10°	884.3	881.9	884.3	883.5	882.7	881.1	873.0	869.8	869.8	872.2	869.8
12.5°	880.2	878.6	880.2	878.6	878.6	877.0	869.0	865.8	866.6	867.4	864.2
15°	873.8	871.4	873.8	872.2	873.0	870.6	861.8	858.6	858.6	860.2	854.5
17.5°	864.2	861.0	864.2	863.4	862.6	861.0	852.9	849.7	848.9	849.7	845.6
20°	852.9	850.5	852.9	852.1	852.1	848.9	840.8	836.8	836.8	836.8	832.8
22.5°	835.2	832.8	835.2	836.8	836.8	836.0	828.8	823.2	821.5	821.5	816.7
25°	815.1	812.7	815.1	815.1	814.3	815.1	812.7	809.5	807.1	804.7	799.9
27.5°	795.9	794.2	795.9	794.2	795.9	793.4	792.6	791.8	788.6	786.2	779.8
30°	776.6	775.0	776.6	775.0	773.4	771.8	767.7	766.1	769.4	767.7	757.3
32.5°	752.5	750.9	752.5	752.5	750.9	750.9	744.5	742.1	742.9	747.7	738.0
35°	727.6	725.2	727.6	726.8	727.6	725.2	721.2	720.4	717.2	722.8	715.6
37.5°	698.7	696.3	698.7	698.7	698.7	700.3	697.1	694.7	689.9	697.1	691.5
40°	669.0	665.8	669.0	668.2	669.0	670.6	669.0	667.4	662.6	668.2	663.4
42.5°	635.3	634.5	635.3	636.1	636.1	639.3	641.7	638.5	636.9	632.8	636.1
45°	599.1	597.5	599.1	600.7	601.5	603.1	610.4	610.4	608.0	601.5	606.3
47.5°	560.6	556.6	560.6	565.4	565.4	567.8	575.0	580.6	576.6	568.6	571.0
50°	519.6	520.4	519.6	522.8	522.8	531.7	537.3	542.9	546.9	537.3	526.0
52.5°	479.5	478.7	479.5	481.9	485.1	489.1	498.7	504.4	510.8	505.2	487.5
55°	439.3	440.9	439.3	440.1	441.7	444.1	458.6	464.2	476.3	469.0	450.6
57.5°	399.2	396.8	399.2	400.8	401.6	404.0	416.0	426.5	433.7	434.5	412.0
60°	352.6	349.4	352.6	359.8	361.4	363.0	374.3	383.9	390.3	392.7	369.5
62.5°	311.6	306.0	311.6	316.5	319.7	323.7	331.7	346.2	351.8	352.6	319.7
65°	268.2	265.8	268.2	277.8	278.6	283.5	292.4	302.8	314.9	313.3	265.8
67.5°	228.9	228.9	228.9	235.3	240.1	242.5	253.7	258.6	273.8	275.4	221.6
70°	192.7	191.9	192.7	197.5	200.8	206.4	216.8	222.4	234.5	238.5	179.9
72.5°	158.2	157.4	158.2	162.2	165.4	170.2	179.1	185.5	195.9	200.8	139.7
75°	127.7	126.1	127.7	130.9	130.1	136.5	143.7	150.2	159.8	163.0	103.6
77.5°	98.0	98.0	98.0	101.2	101.2	107.6	110.8	118.8	124.5	129.3	76.3
80°	73.1	72.3	73.1	73.9	73.9	77.1	82.7	88.3	93.1	93.1	52.2
82.5°	51.4	49.8	51.4	51.4	51.4	53.0	56.2	57.8	61.0	63.4	32.9
85°	32.1	32.1	32.1	32.9	32.1	33.7	34.5	36.1	36.1	34.5	20.1
87.5°	20.9	20.1	20.9	20.1	20.1	19.3	19.3	19.3	18.5	17.7	11.2
90°	12.7	12.7	12.7	12.7	12.7	16.9	22.6	25.4	21.8	14.7	9.3
92.5°	50.8	40.7	50.8	60.9	63.4	89.9	125.3	142.9	125.5	90.7	64.5
95°	177.2	146.6	177.2	207.8	215.4	282.9	372.8	417.8	352.8	223.0	125.6
97.5°	424.5	366.4	424.5	482.8	497.3	539.9	596.8	625.2	517.0	300.4	138.0
100°	611.7	542.4	611.7	681.0	698.4	695.2	691.1	689.1	568.9	328.6	148.3
102.5°	795.9	736.5	795.9	855.2	870.1	815.8	743.3	707.1	585.2	341.5	158.7
105°	1030.6	998.7	1030.6	1062.5	1070.5	948.7	786.3	705.1	587.1	351.1	174.0
107.5°	1184.3	1192.1	1184.3	1176.6	1174.7	1004.8	778.3	665.0	560.9	352.8	196.7
110°	1243.0	1276.2	1243.0	1209.7	1201.4	1011.5	758.2	631.6	537.8	350.1	209.4





TEST NUMBER: P935150

CATALOG NUMBER: SQ4-FA-100U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1248.2	1299.3	1248.2	1197.1	1184.3	989.9	730.8	601.2	517.5	350.3	224.8
115°	1215.1	1285.9	1215.1	1144.3	1126.6	939.3	689.7	564.8	494.4	353.5	247.8
117.5°	1144.9	1223.5	1144.9	1066.4	1046.8	877.8	652.4	539.8	479.9	360.1	270.2
120°	1088.4	1164.7	1088.4	1012.1	993.0	838.6	632.7	529.7	475.0	365.4	283.2
122.5°	1033.3	1108.5	1033.3	958.0	939.2	800.1	614.7	522.0	472.4	373.1	298.6
125°	954.7	1024.1	954.7	885.4	868.0	749.9	592.5	513.7	470.2	383.4	318.3
127.5°	884.1	942.6	884.1	825.6	810.9	709.5	574.3	506.7	469.0	393.8	337.3
130°	842.4	896.5	842.4	788.4	774.9	684.6	564.3	504.0	469.8	401.3	350.0
132.5°	804.6	853.0	804.6	756.3	744.1	663.3	555.5	501.6	470.2	407.4	360.4
135°	752.8	794.6	752.8	711.1	700.7	633.0	542.8	497.7	469.8	414.2	372.4
137.5°	711.4	745.5	711.4	677.2	668.7	611.4	535.1	497.0	472.7	424.1	387.8
140°	682.9	714.8	682.9	650.9	643.0	593.5	527.6	494.6	473.2	430.3	398.1
142.5°	659.3	686.7	659.3	631.8	624.9	581.5	523.6	494.6	474.9	435.5	405.8
145°	623.9	644.6	623.9	603.1	597.8	562.3	515.0	491.4	475.0	442.1	417.5
147.5°	596.7	613.9	596.7	579.5	575.2	547.2	510.0	491.4	478.2	451.9	432.2
150°	579.5	593.5	579.5	565.6	562.1	538.5	507.1	491.4	480.0	457.1	439.9
152.5°	564.9	575.5	564.9	554.4	551.7	531.6	504.8	491.4	481.0	460.4	444.9
155°	548.1	555.1	548.1	541.1	539.4	523.4	502.0	491.4	483.5	467.7	455.9
157.5°	534.9	539.8	534.9	529.9	528.7	516.2	499.6	491.4	485.9	475.1	466.9
160°	526.9	529.7	526.9	524.1	523.4	512.7	498.5	491.4	487.0	478.4	471.9
162.5°	521.7	524.4	521.7	519.0	518.3	509.3	497.4	491.4	488.2	482.0	477.3
165°	514.2	517.1	514.2	511.4	510.7	504.3	495.7	491.4	489.9	487.1	484.9
167.5°	508.8	510.0	508.8	507.7	507.3	503.1	497.5	494.6	493.4	491.1	489.3
170°	507.3	507.3	507.3	507.3	507.3	503.1	497.5	494.6	494.6	494.4	494.3
172.5°	503.4	502.4	503.4	504.4	504.7	501.3	496.9	494.6	494.6	494.6	494.6
175°	501.0	501.0	501.0	501.0	501.0	498.9	496.1	494.6	495.3	496.7	497.7
177.5°	498.9	497.7	498.9	500.0	500.3	498.7	496.4	495.3	495.9	496.9	497.7
180°	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7



TEST NUMBER: P935150  
 CATALOG NUMBER: SQ4-FA-100U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	861.0	856.1	856.1	848.0	844.8	842.4	838.4	826.4	823.2	819.9	824.8
5°	868.2	859.4	852.9	838.4	826.4	821.5	806.3	777.4	758.1	743.7	735.6
7.5°	869.8	858.6	846.4	824.0	795.1	782.2	735.6	682.6	668.2	655.3	647.3
10°	868.2	855.3	838.4	804.7	736.4	713.9	667.4	632.8	624.0	621.6	624.0
12.5°	862.6	850.5	827.2	771.0	675.4	660.1	632.8	612.8	611.2	615.2	636.9
15°	852.9	841.6	814.3	726.0	641.7	630.4	611.2	603.9	612.8	640.9	705.9
17.5°	843.2	830.4	796.7	681.8	616.0	608.0	594.3	608.8	658.5	696.3	718.0
20°	830.4	815.1	776.6	649.7	597.5	590.3	583.9	648.9	686.6	700.3	712.3
22.5°	815.1	799.1	749.3	627.2	578.2	572.6	576.6	671.4	686.6	696.3	706.7
25°	795.1	781.4	717.2	609.6	563.0	556.6	571.8	669.0	677.8	680.2	701.1
27.5°	776.6	758.9	683.4	593.5	544.5	542.1	575.8	658.5	665.0	667.4	689.9
30°	754.1	727.6	645.7	576.6	525.2	524.4	576.6	645.7	644.1	650.5	673.0
32.5°	730.8	681.0	603.1	555.8	506.8	506.0	571.0	626.4	624.8	633.6	650.5
35°	709.1	644.9	545.3	531.7	483.5	484.3	557.4	603.9	604.7	612.8	623.2
37.5°	686.6	613.6	481.9	505.2	461.0	461.0	538.9	583.1	581.5	583.9	598.3
40°	660.1	564.6	425.7	470.6	440.1	437.7	516.4	560.6	555.0	554.2	574.2
42.5°	632.0	510.8	383.9	424.9	416.0	412.8	489.1	533.3	522.8	525.2	550.9
45°	601.5	496.3	351.8	359.0	391.1	388.7	459.4	502.0	494.7	501.2	527.7
47.5°	571.0	467.4	341.4	298.0	364.6	363.8	426.5	471.4	467.4	473.9	502.0
50°	529.3	435.3	340.6	255.4	334.9	338.1	387.1	441.7	441.7	447.4	477.1
52.5°	475.5	396.0	309.2	231.3	300.4	310.0	352.6	416.0	417.6	423.3	449.8
55°	426.5	355.0	286.8	212.8	259.4	280.2	318.9	389.5	392.7	398.4	422.5
57.5°	381.5	295.6	281.9	191.1	221.6	241.7	289.2	363.8	365.4	370.3	393.6
60°	333.3	213.6	258.6	167.8	188.7	204.0	261.8	333.3	338.9	342.2	362.2
62.5°	278.6	155.0	234.5	151.8	172.6	175.9	239.3	304.4	311.6	314.1	326.1
65°	198.3	130.1	199.1	138.1	155.8	156.6	215.2	274.6	281.0	285.1	294.0
67.5°	134.1	106.0	151.8	125.3	142.9	143.7	191.9	240.1	248.9	252.1	257.8
70°	93.1	70.7	112.4	111.6	128.5	130.1	167.0	208.8	216.8	219.2	222.4
72.5°	68.3	57.0	93.1	100.4	113.2	114.8	141.3	173.4	181.5	183.9	185.5
75°	52.2	60.2	75.5	87.5	96.4	97.2	115.6	141.3	146.9	148.6	149.4
77.5°	41.8	56.2	55.4	70.7	78.7	77.1	90.7	109.2	114.0	114.0	114.0
80°	31.3	44.2	41.8	50.6	57.8	56.2	65.0	77.9	79.5	81.1	80.3
82.5°	23.3	28.1	28.1	32.1	38.5	36.9	43.4	50.6	50.6	50.6	52.2
85°	14.5	16.1	12.8	16.9	21.7	20.9	24.1	27.3	28.1	28.1	26.5
87.5°	8.8	7.2	4.0	6.4	9.6	9.6	11.2	12.0	11.2	11.2	11.2
90°	8.7	6.0	3.4	6.0	8.7	9.3	14.7	21.8	25.4	22.6	16.9
92.5°	58.8	36.1	13.3	36.1	58.8	64.5	90.7	125.5	142.9	125.3	89.9
95°	115.2	73.6	32.0	73.6	115.2	125.6	223.0	352.8	417.8	372.8	282.9
97.5°	128.8	92.1	55.4	92.1	128.8	138.0	300.4	517.0	625.2	596.8	539.9
100°	140.0	106.7	73.5	106.7	140.0	148.3	328.6	568.9	689.1	691.1	695.2
102.5°	150.9	119.9	88.8	119.9	150.9	158.7	341.5	585.2	707.1	743.3	815.8
105°	167.4	141.2	114.9	141.2	167.4	174.0	351.1	587.1	705.1	786.3	948.7
107.5°	190.6	166.1	141.6	166.1	190.6	196.7	352.8	560.9	665.0	778.3	1004.8
110°	203.9	181.8	159.6	181.8	203.9	209.4	350.1	537.8	631.6	758.2	1011.5



TEST NUMBER: P935150

CATALOG NUMBER: SQ4-FA-100U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	219.5	198.4	177.4	198.4	219.5	224.8	350.3	517.5	601.2	730.8	989.9
115°	242.9	223.5	204.0	223.5	242.9	247.8	353.5	494.4	564.8	689.7	939.3
117.5°	265.8	248.1	230.5	248.1	265.8	270.2	360.1	479.9	539.8	652.4	877.8
120°	279.0	262.4	245.8	262.4	279.0	283.2	365.4	475.0	529.7	632.7	838.6
122.5°	294.5	277.7	260.9	277.7	294.5	298.6	373.1	472.4	522.0	614.7	800.1
125°	314.5	299.2	283.9	299.2	314.5	318.3	383.4	470.2	513.7	592.5	749.9
127.5°	333.5	318.0	302.6	318.0	333.5	337.3	393.8	469.0	506.7	574.3	709.5
130°	345.9	329.2	312.6	329.2	345.9	350.0	401.3	469.8	504.0	564.3	684.6
132.5°	356.2	339.6	323.0	339.6	356.2	360.4	407.4	470.2	501.6	555.5	663.3
135°	368.7	353.5	338.4	353.5	368.7	372.4	414.2	469.8	497.7	542.8	633.0
137.5°	384.0	369.1	354.0	369.1	384.0	387.8	424.1	472.7	497.0	535.1	611.4
140°	394.7	380.9	367.1	380.9	394.7	398.1	430.3	473.2	494.6	527.6	593.5
142.5°	402.6	389.9	377.1	389.9	402.6	405.8	435.5	474.9	494.6	523.6	581.5
145°	414.7	403.6	392.4	403.6	414.7	417.5	442.1	475.0	491.4	515.0	562.3
147.5°	429.4	418.7	407.8	418.7	429.4	432.2	451.9	478.2	491.4	510.0	547.2
150°	437.4	427.6	417.8	427.6	437.4	439.9	457.1	480.0	491.4	507.1	538.5
152.5°	443.0	435.5	428.2	435.5	443.0	444.9	460.4	481.0	491.4	504.8	531.6
155°	454.6	449.0	443.6	449.0	454.6	455.9	467.7	483.5	491.4	502.0	523.4
157.5°	465.6	460.3	454.9	460.3	465.6	466.9	475.1	485.9	491.4	499.6	516.2
160°	470.9	466.8	462.6	466.8	470.9	471.9	478.4	487.0	491.4	498.5	512.7
162.5°	476.5	473.4	470.2	473.4	476.5	477.3	482.0	488.2	491.4	497.4	509.3
165°	484.2	481.4	478.6	481.4	484.2	484.9	487.1	489.9	491.4	495.7	504.3
167.5°	489.0	487.7	486.3	487.7	489.0	489.3	491.1	493.4	494.6	497.5	503.1
170°	494.0	492.6	491.4	492.6	494.0	494.3	494.4	494.6	494.6	497.5	503.1
172.5°	494.6	494.3	494.0	494.3	494.6	494.6	494.6	494.6	494.6	496.9	501.3
175°	497.7	497.7	497.7	497.7	497.7	497.7	496.7	495.3	494.6	496.1	498.9
177.5°	497.7	497.7	497.7	497.7	497.7	497.7	496.9	495.9	495.3	496.4	498.7
180°	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7



TEST NUMBER: P935150  
 CATALOG NUMBER: SQ4-FA-100U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9	848.9
2.5°	819.1	816.7	819.9	811.1	819.9	816.7	819.1	824.8	819.9	823.2	826.4
5°	718.8	714.8	701.9	691.5	701.9	714.8	718.8	735.6	743.7	758.1	777.4
7.5°	642.5	639.3	636.1	629.6	636.1	639.3	642.5	647.3	655.3	668.2	682.6
10°	625.6	626.4	631.2	630.4	631.2	626.4	625.6	624.0	621.6	624.0	632.8
12.5°	669.0	676.2	702.7	701.1	702.7	676.2	669.0	636.9	615.2	611.2	612.8
15°	718.8	721.2	726.8	727.6	726.8	721.2	718.8	705.9	640.9	612.8	603.9
17.5°	723.6	724.4	728.4	728.4	728.4	724.4	723.6	718.0	696.3	658.5	608.8
20°	719.6	721.2	729.2	730.8	729.2	721.2	719.6	712.3	700.3	686.6	648.9
22.5°	718.0	721.2	727.6	726.8	727.6	721.2	718.0	706.7	696.3	686.6	671.4
25°	709.9	709.9	710.7	711.5	710.7	709.9	709.9	701.1	680.2	677.8	669.0
27.5°	693.1	694.7	699.5	698.7	699.5	694.7	693.1	689.9	667.4	665.0	658.5
30°	677.8	676.2	672.2	669.0	672.2	676.2	677.8	673.0	650.5	644.1	645.7
32.5°	652.1	648.1	644.1	641.7	644.1	648.1	652.1	650.5	633.6	624.8	626.4
35°	621.6	622.4	621.6	619.2	621.6	622.4	621.6	623.2	612.8	604.7	603.9
37.5°	599.9	601.5	600.7	597.5	600.7	601.5	599.9	598.3	583.9	581.5	583.1
40°	577.4	578.2	577.4	575.0	577.4	578.2	577.4	574.2	554.2	555.0	560.6
42.5°	555.8	555.0	552.5	550.9	552.5	555.0	555.8	550.9	525.2	522.8	533.3
45°	530.9	531.7	526.8	524.4	526.8	531.7	530.9	527.7	501.2	494.7	502.0
47.5°	506.0	506.0	502.0	499.5	502.0	506.0	506.0	502.0	473.9	467.4	471.4
50°	479.5	478.7	473.0	472.2	473.0	478.7	479.5	477.1	447.4	441.7	441.7
52.5°	449.0	449.0	449.8	451.4	449.8	449.0	449.0	449.8	423.3	417.6	416.0
55°	422.5	423.3	428.9	430.5	428.9	423.3	422.5	422.5	398.4	392.7	389.5
57.5°	395.2	395.2	399.2	399.2	399.2	395.2	395.2	393.6	370.3	365.4	363.8
60°	363.8	365.4	368.7	367.9	368.7	365.4	363.8	362.2	342.2	338.9	333.3
62.5°	330.9	332.5	333.3	331.7	333.3	332.5	330.9	326.1	314.1	311.6	304.4
65°	296.4	298.0	298.8	297.2	298.8	298.0	296.4	294.0	285.1	281.0	274.6
67.5°	261.0	260.2	259.4	262.6	259.4	260.2	261.0	257.8	252.1	248.9	240.1
70°	224.8	224.8	224.0	225.6	224.0	224.8	224.8	222.4	219.2	216.8	208.8
72.5°	186.3	185.5	188.7	186.3	188.7	185.5	186.3	185.5	183.9	181.5	173.4
75°	148.6	150.2	148.6	151.0	148.6	150.2	148.6	149.4	148.6	146.9	141.3
77.5°	113.2	114.8	113.2	113.2	113.2	114.8	113.2	114.0	114.0	114.0	109.2
80°	80.3	79.5	79.5	78.7	79.5	79.5	80.3	80.3	81.1	79.5	77.9
82.5°	51.4	50.6	50.6	52.2	50.6	50.6	51.4	52.2	50.6	50.6	50.6
85°	28.1	28.9	27.3	27.3	27.3	28.9	28.1	26.5	28.1	28.1	27.3
87.5°	10.4	9.6	9.6	9.6	9.6	9.6	10.4	11.2	11.2	11.2	12.0
90°	12.7	12.7	12.7	12.7	12.7	12.7	12.7	16.9	22.6	25.4	21.8
92.5°	63.4	60.9	50.8	40.7	50.8	60.9	63.4	89.9	125.3	142.9	125.5
95°	215.4	207.8	177.2	146.6	177.2	207.8	215.4	282.9	372.8	417.8	352.8
97.5°	497.3	482.8	424.5	366.4	424.5	482.8	497.3	539.9	596.8	625.2	517.0
100°	698.4	681.0	611.7	542.4	611.7	681.0	698.4	695.2	691.1	689.1	568.9
102.5°	870.1	855.2	795.9	736.5	795.9	855.2	870.1	815.8	743.3	707.1	585.2
105°	1070.5	1062.5	1030.6	998.7	1030.6	1062.5	1070.5	948.7	786.3	705.1	587.1
107.5°	1174.7	1176.6	1184.3	1192.1	1184.3	1176.6	1174.7	1004.8	778.3	665.0	560.9
110°	1201.4	1209.7	1243.0	1276.2	1243.0	1209.7	1201.4	1011.5	758.2	631.6	537.8



TEST NUMBER: P935150

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1184.3	1197.1	1248.2	1299.3	1248.2	1197.1	1184.3	989.9	730.8	601.2	517.5
115°	1126.6	1144.3	1215.1	1285.9	1215.1	1144.3	1126.6	939.3	689.7	564.8	494.4
117.5°	1046.8	1066.4	1144.9	1223.5	1144.9	1066.4	1046.8	877.8	652.4	539.8	479.9
120°	993.0	1012.1	1088.4	1164.7	1088.4	1012.1	993.0	838.6	632.7	529.7	475.0
122.5°	939.2	958.0	1033.3	1108.5	1033.3	958.0	939.2	800.1	614.7	522.0	472.4
125°	868.0	885.4	954.7	1024.1	954.7	885.4	868.0	749.9	592.5	513.7	470.2
127.5°	810.9	825.6	884.1	942.6	884.1	825.6	810.9	709.5	574.3	506.7	469.0
130°	774.9	788.4	842.4	896.5	842.4	788.4	774.9	684.6	564.3	504.0	469.8
132.5°	744.1	756.3	804.6	853.0	804.6	756.3	744.1	663.3	555.5	501.6	470.2
135°	700.7	711.1	752.8	794.6	752.8	711.1	700.7	633.0	542.8	497.7	469.8
137.5°	668.7	677.2	711.4	745.5	711.4	677.2	668.7	611.4	535.1	497.0	472.7
140°	643.0	650.9	682.9	714.8	682.9	650.9	643.0	593.5	527.6	494.6	473.2
142.5°	624.9	631.8	659.3	686.7	659.3	631.8	624.9	581.5	523.6	494.6	474.9
145°	597.8	603.1	623.9	644.6	623.9	603.1	597.8	562.3	515.0	491.4	475.0
147.5°	575.2	579.5	596.7	613.9	596.7	579.5	575.2	547.2	510.0	491.4	478.2
150°	562.1	565.6	579.5	593.5	579.5	565.6	562.1	538.5	507.1	491.4	480.0
152.5°	551.7	554.4	564.9	575.5	564.9	554.4	551.7	531.6	504.8	491.4	481.0
155°	539.4	541.1	548.1	555.1	548.1	541.1	539.4	523.4	502.0	491.4	483.5
157.5°	528.7	529.9	534.9	539.8	534.9	529.9	528.7	516.2	499.6	491.4	485.9
160°	523.4	524.1	526.9	529.7	526.9	524.1	523.4	512.7	498.5	491.4	487.0
162.5°	518.3	519.0	521.7	524.4	521.7	519.0	518.3	509.3	497.4	491.4	488.2
165°	510.7	511.4	514.2	517.1	514.2	511.4	510.7	504.3	495.7	491.4	489.9
167.5°	507.3	507.7	508.8	510.0	508.8	507.7	507.3	503.1	497.5	494.6	493.4
170°	507.3	507.3	507.3	507.3	507.3	507.3	507.3	503.1	497.5	494.6	494.6
172.5°	504.7	504.4	503.4	502.4	503.4	504.4	504.7	501.3	496.9	494.6	494.6
175°	501.0	501.0	501.0	501.0	501.0	501.0	501.0	498.9	496.1	494.6	495.3
177.5°	500.3	500.0	498.9	497.7	498.9	500.0	500.3	498.7	496.4	495.3	495.9
180°	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7	497.7



TEST NUMBER: P935150  
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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	848.9	848.9	848.9	848.9	848.9
2.5°	838.4	842.4	844.8	848.0	856.1
5°	806.3	821.5	826.4	838.4	852.9
7.5°	735.6	782.2	795.1	824.0	846.4
10°	667.4	713.9	736.4	804.7	838.4
12.5°	632.8	660.1	675.4	771.0	827.2
15°	611.2	630.4	641.7	726.0	814.3
17.5°	594.3	608.0	616.0	681.8	796.7
20°	583.9	590.3	597.5	649.7	776.6
22.5°	576.6	572.6	578.2	627.2	749.3
25°	571.8	556.6	563.0	609.6	717.2
27.5°	575.8	542.1	544.5	593.5	683.4
30°	576.6	524.4	525.2	576.6	645.7
32.5°	571.0	506.0	506.8	555.8	603.1
35°	557.4	484.3	483.5	531.7	545.3
37.5°	538.9	461.0	461.0	505.2	481.9
40°	516.4	437.7	440.1	470.6	425.7
42.5°	489.1	412.8	416.0	424.9	383.9
45°	459.4	388.7	391.1	359.0	351.8
47.5°	426.5	363.8	364.6	298.0	341.4
50°	387.1	338.1	334.9	255.4	340.6
52.5°	352.6	310.0	300.4	231.3	309.2
55°	318.9	280.2	259.4	212.8	286.8
57.5°	289.2	241.7	221.6	191.1	281.9
60°	261.8	204.0	188.7	167.8	258.6
62.5°	239.3	175.9	172.6	151.8	234.5
65°	215.2	156.6	155.8	138.1	199.1
67.5°	191.9	143.7	142.9	125.3	151.8
70°	167.0	130.1	128.5	111.6	112.4
72.5°	141.3	114.8	113.2	100.4	93.1
75°	115.6	97.2	96.4	87.5	75.5
77.5°	90.7	77.1	78.7	70.7	55.4
80°	65.0	56.2	57.8	50.6	41.8
82.5°	43.4	36.9	38.5	32.1	28.1
85°	24.1	20.9	21.7	16.9	12.8
87.5°	11.2	9.6	9.6	6.4	4.0
90°	14.7	9.3	8.7	6.0	3.4
92.5°	90.7	64.5	58.8	36.1	13.3
95°	223.0	125.6	115.2	73.6	32.0
97.5°	300.4	138.0	128.8	92.1	55.4
100°	328.6	148.3	140.0	106.7	73.5
102.5°	341.5	158.7	150.9	119.9	88.8
105°	351.1	174.0	167.4	141.2	114.9
107.5°	352.8	196.7	190.6	166.1	141.6
110°	350.1	209.4	203.9	181.8	159.6



TEST NUMBER: P935150

CATALOG NUMBER: SQ4-FA-100U-075D-930-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	350.3	224.8	219.5	198.4	177.4
115°	353.5	247.8	242.9	223.5	204.0
117.5°	360.1	270.2	265.8	248.1	230.5
120°	365.4	283.2	279.0	262.4	245.8
122.5°	373.1	298.6	294.5	277.7	260.9
125°	383.4	318.3	314.5	299.2	283.9
127.5°	393.8	337.3	333.5	318.0	302.6
130°	401.3	350.0	345.9	329.2	312.6
132.5°	407.4	360.4	356.2	339.6	323.0
135°	414.2	372.4	368.7	353.5	338.4
137.5°	424.1	387.8	384.0	369.1	354.0
140°	430.3	398.1	394.7	380.9	367.1
142.5°	435.5	405.8	402.6	389.9	377.1
145°	442.1	417.5	414.7	403.6	392.4
147.5°	451.9	432.2	429.4	418.7	407.8
150°	457.1	439.9	437.4	427.6	417.8
152.5°	460.4	444.9	443.0	435.5	428.2
155°	467.7	455.9	454.6	449.0	443.6
157.5°	475.1	466.9	465.6	460.3	454.9
160°	478.4	471.9	470.9	466.8	462.6
162.5°	482.0	477.3	476.5	473.4	470.2
165°	487.1	484.9	484.2	481.4	478.6
167.5°	491.1	489.3	489.0	487.7	486.3
170°	494.4	494.3	494.0	492.6	491.4
172.5°	494.6	494.6	494.6	494.3	494.0
175°	496.7	497.7	497.7	497.7	497.7
177.5°	496.9	497.7	497.7	497.7	497.7
180°	497.7	497.7	497.7	497.7	497.7



TEST NUMBER: P935150  
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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	11.03	11.81	12.06	12.85	14.25	13.82	14.61	14.86	15.65	17.05
	3H	11.50	12.20	12.54	13.25	14.67	15.15	15.85	16.20	16.90	18.32
	4H	11.68	12.35	12.74	13.40	14.83	15.59	16.25	16.64	17.30	18.73
	6H	11.80	12.41	12.86	13.47	14.90	15.86	16.47	16.93	17.53	18.97
	8H	11.80	12.38	12.87	13.45	14.89	15.93	16.51	17.00	17.58	19.01
	12H	11.77	12.32	12.84	13.38	14.84	15.96	16.51	17.03	17.58	19.04
4H	2H	12.04	12.70	13.10	13.76	15.18	14.22	14.89	15.29	15.94	17.37
	3H	13.06	13.61	14.13	14.69	16.13	15.71	16.27	16.78	17.35	18.79
	4H	13.33	13.84	14.41	14.91	16.37	16.23	16.74	17.31	17.81	19.27
	6H	13.45	13.89	14.54	14.98	16.44	16.58	17.02	17.67	18.11	19.57
	8H	13.46	13.86	14.54	14.95	16.42	16.68	17.09	17.77	18.18	19.65
	12H	13.42	13.79	14.52	14.89	16.36	16.73	17.10	17.83	18.20	19.67
8H	4H	13.77	14.18	14.86	15.27	16.74	16.35	16.76	17.44	17.84	19.31
	6H	14.03	14.37	15.14	15.50	16.96	16.78	17.11	17.88	18.24	19.71
	8H	14.07	14.37	15.19	15.48	16.97	16.92	17.22	18.04	18.33	19.81
	12H	14.06	14.31	15.17	15.42	16.95	17.01	17.27	18.13	18.37	19.90
12H	4H	13.78	14.14	14.88	15.24	16.72	16.31	16.68	17.41	17.78	19.25
	6H	14.09	14.39	15.21	15.50	16.98	16.77	17.07	17.89	18.18	19.66
	8H	14.15	14.41	15.27	15.52	17.04	16.92	17.18	18.04	18.29	19.81