

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: P934675

Luminaire Tested: SQ4-FA-075U-050D-940-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

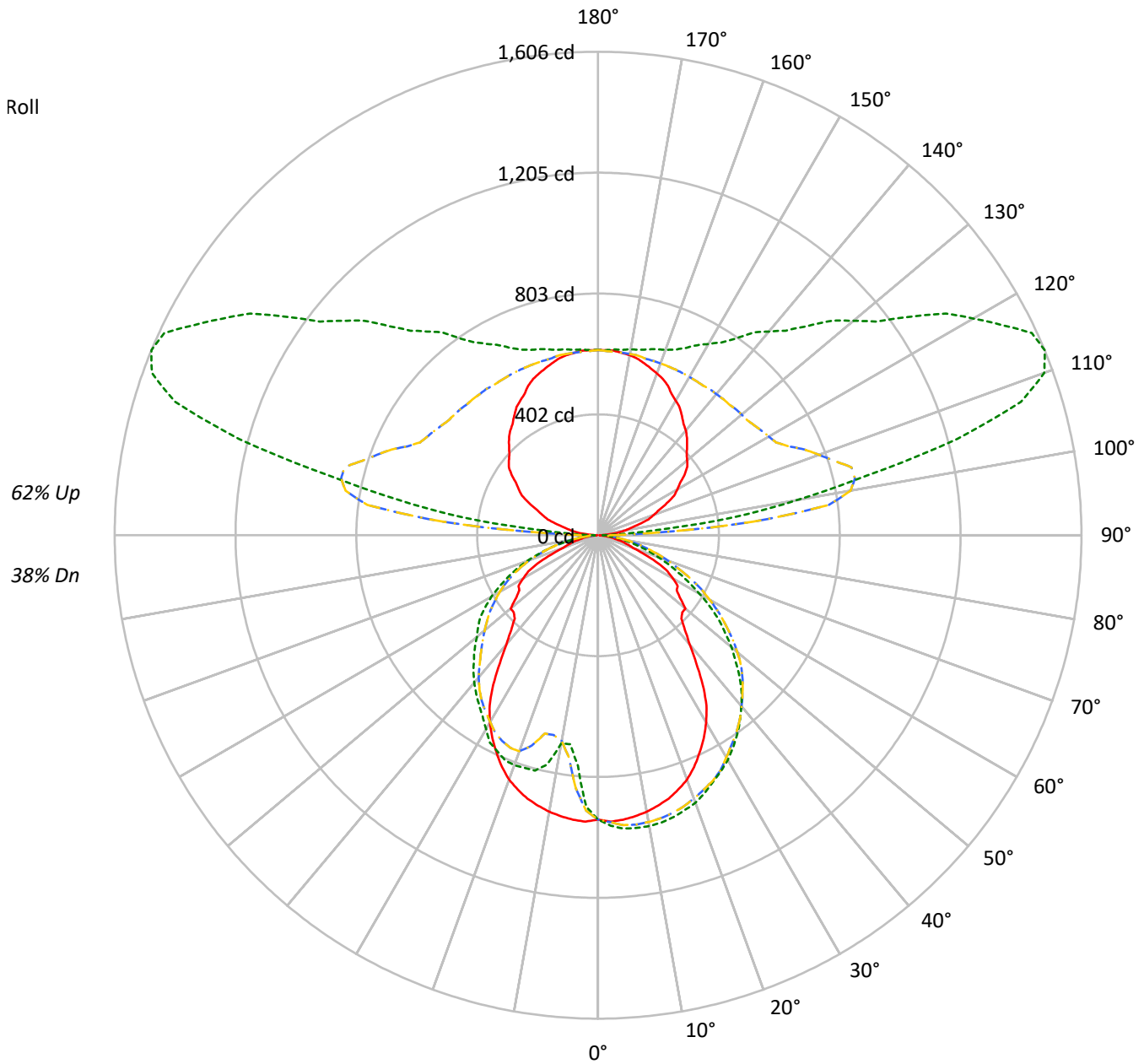
Test Method: LM-79-2019  
Report Number: P934675  
REPORT IS A COMBINATION OF REPORTS P933707 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-940-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6438.9 lumens  
Efficiency: N/A  
Efficacy: 124.8 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 (A<sub>in</sub>): 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°	5841	5841	5841	5841
5°	5883	5896	5883	4636
10°	5841	5808	5841	4153
15°	5775	5683	5775	4745
20°	5652	5533	5652	4755
25°	5403	5316	5403	4654
30°	5081	5136	5081	4433
35°	4528	4907	4528	4189
40°	3771	4639	3771	4006
45°	3367	4323	3367	3795
50°	3574	3949	3574	3583
55°	3359	3544	3359	3460
60°	3458	3010	3458	3169
65°	3132	2488	3132	2781
70°	2162	1983	2162	2331
75°	1890	1465	1890	1755
80°	1510	969	1510	1056
85°	853	513	853	437

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5164 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	85.2	1.3
10°-20°	242.0	3.8
20°-30°	374.1	5.8
30°-40°	446.6	6.9
40°-50°	449.2	7.0
50°-60°	390.9	6.1
60°-70°	277.1	4.3
70°-80°	146.6	2.3
80°-90°	38.9	0.6
90°-100°	299.9	4.7
100°-110°	788.5	12.2
110°-120°	817.5	12.7
120°-130°	655.8	10.2
130°-140°	514.5	8.0
140°-150°	394.9	6.1
150°-160°	284.4	4.4
160°-170°	174.0	2.7
170°-180°	58.8	0.9
0°-30°	701.3	10.9
0°-40°	1147.9	17.8
0°-60°	1988.0	30.9
0°-90°	2450.6	38.1
90°-120°	1905.9	29.6
90°-150°	3471.1	53.9
90°-180°	3988.0	61.9
0°-180°	6438.9	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	944	944	944	944	944	
5°	949	978	949	769	949	90
15°	906	969	906	809	906	255
25°	798	904	798	792	798	366
35°	607	807	607	689	607	375
45°	391	665	391	583	391	313
55°	319	490	319	479	319	293
65°	222	296	222	330	222	212
75°	84	140	84	168	84	88
85°	14	36	14	30	14	19
90°	4	16	4	16	4	4
95°	40	181	40	181	40	44
105°	142	1235	142	1235	142	151
115°	252	1590	252	1590	252	249
125°	351	1266	351	1266	351	312
135°	418	982	418	982	418	324
145°	485	797	485	797	485	304
155°	548	686	548	686	548	252
165°	592	639	592	639	592	167
175°	615	619	615	619	615	58
180°	615	615	615	615	615	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	952.3	952.3	957.6	959.4	959.4	956.7	954.1	956.7	964.8	967.5	966.6
5°	948.7	955.8	965.7	967.5	969.3	968.4	966.6	968.4	977.2	979.1	980.0
7.5°	941.5	955.0	967.5	970.1	972.8	970.1	969.3	971.0	980.0	981.8	981.8
10°	932.6	951.4	965.7	967.5	970.1	967.5	967.5	971.0	980.0	981.8	982.7
12.5°	920.1	946.0	959.4	961.2	964.8	963.9	962.9	966.6	975.5	977.2	977.2
15°	905.8	936.2	948.7	950.5	956.7	955.0	955.0	958.5	968.4	971.0	970.1
17.5°	886.1	923.7	938.0	940.7	945.1	944.2	945.1	948.7	957.6	959.4	960.3
20°	863.8	906.7	923.7	926.4	930.8	930.8	930.8	935.3	944.2	947.8	947.8
22.5°	833.5	888.8	906.7	908.5	913.8	913.8	915.6	921.9	929.9	930.8	930.8
25°	797.7	869.2	884.4	889.8	895.1	897.8	900.4	904.1	906.7	905.8	906.7
27.5°	760.2	844.1	863.8	867.4	874.6	877.3	880.8	881.7	882.6	885.2	883.5
30°	718.2	809.3	838.8	842.4	854.0	855.8	852.2	854.0	858.4	860.3	862.1
32.5°	670.9	757.6	812.9	821.0	831.7	826.3	825.4	828.1	835.3	835.3	837.0
35°	606.6	717.3	788.8	795.9	804.0	797.7	801.3	802.2	806.7	809.3	808.4
37.5°	536.0	682.5	763.8	769.1	775.4	767.3	772.7	775.4	779.0	777.2	777.2
40°	473.5	628.0	734.3	737.8	743.3	737.0	742.4	744.1	745.9	744.1	743.3
42.5°	427.0	568.1	703.0	707.5	703.9	708.4	710.2	713.8	711.1	707.5	707.5
45°	391.3	552.1	669.1	674.4	669.1	676.2	678.9	678.9	670.9	669.1	668.2
47.5°	379.6	519.9	635.2	635.2	632.4	641.4	645.8	639.6	631.5	628.9	628.9
50°	378.7	484.1	588.7	585.1	597.6	608.4	603.8	597.6	591.4	581.6	581.6
52.5°	343.9	440.4	528.8	542.2	561.9	568.1	561.0	554.7	544.0	539.5	536.0
55°	318.9	394.8	474.4	501.2	521.7	529.7	516.4	510.1	494.0	491.3	489.6
57.5°	313.6	328.7	424.3	458.3	483.2	482.4	474.4	462.7	449.3	446.7	445.8
60°	287.6	237.6	370.7	411.0	436.8	434.1	427.0	416.3	403.8	402.0	400.2
62.5°	260.8	172.4	310.0	355.6	392.1	391.3	385.0	369.0	360.0	355.6	352.0
65°	221.6	144.7	220.7	295.7	348.4	350.1	336.8	325.2	315.3	310.0	309.1
67.5°	168.8	117.9	149.2	246.6	306.4	304.6	287.6	282.3	269.8	267.1	261.8
70°	125.0	78.6	103.6	200.1	265.3	260.8	247.5	241.2	229.5	223.3	219.8
72.5°	103.6	63.4	75.9	155.4	223.3	218.0	206.4	199.2	189.4	184.0	180.4
75°	84.0	67.0	58.1	115.3	181.3	177.8	167.0	159.9	151.8	144.7	145.6
77.5°	61.6	62.5	46.4	84.9	143.9	138.4	132.2	123.3	119.7	112.6	112.6
80°	46.4	49.1	34.8	58.1	103.6	103.6	98.3	92.0	85.8	82.2	82.2
82.5°	31.3	31.3	25.9	36.6	70.6	67.9	64.3	62.5	59.0	57.2	57.2
85°	14.3	17.8	16.1	22.3	38.5	40.2	40.2	38.5	37.6	35.7	36.6
87.5°	4.4	8.1	9.9	12.5	19.6	20.5	21.4	21.4	21.4	22.3	22.3
90°	4.1	7.4	10.7	11.5	18.1	26.9	31.3	27.9	21.0	15.7	15.7
92.5°	16.5	44.6	72.6	79.7	112.0	155.1	176.7	154.9	111.2	78.4	75.3
95°	39.6	91.0	142.3	155.2	275.6	436.3	516.5	461.0	349.7	266.3	256.9
97.5°	68.6	113.8	159.1	170.5	371.4	639.1	773.0	737.8	667.6	614.9	596.8
100°	90.8	132.0	173.1	183.4	406.2	703.3	851.9	854.4	859.6	863.4	842.0
102.5°	109.8	148.2	186.6	196.2	422.2	723.5	874.1	918.9	1008.5	1075.6	1057.3
105°	142.1	174.6	207.1	215.2	434.0	725.8	871.7	972.0	1172.8	1323.4	1313.5
107.5°	175.1	205.4	235.7	243.2	436.2	693.4	822.1	962.1	1242.2	1452.2	1454.6
110°	197.4	224.8	252.0	258.9	432.8	664.8	780.8	937.4	1250.5	1485.3	1495.6



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	219.2	245.3	271.4	277.9	433.0	639.8	743.3	903.5	1223.8	1464.1	1479.9
115°	252.3	276.3	300.3	306.4	437.0	611.1	698.2	852.6	1161.2	1392.7	1414.6
117.5°	284.9	306.7	328.6	334.1	445.2	593.2	667.2	806.6	1085.1	1294.1	1318.3
120°	303.9	324.5	345.0	350.1	451.7	587.1	654.9	782.2	1036.7	1227.6	1251.2
122.5°	322.5	343.2	364.0	369.1	461.2	584.0	645.4	760.0	989.1	1161.1	1184.3
125°	350.9	369.9	388.8	393.5	474.0	581.4	635.1	732.4	927.2	1073.1	1094.5
127.5°	374.1	393.2	412.2	417.0	486.8	579.9	626.4	710.0	877.2	1002.6	1020.7
130°	386.5	407.1	427.6	432.7	496.2	580.8	623.1	697.5	846.4	958.0	974.7
132.5°	399.2	419.8	440.4	445.5	503.8	581.4	620.2	686.8	820.1	920.0	934.9
135°	418.2	437.0	455.7	460.4	512.0	580.8	615.2	671.0	782.6	866.2	879.1
137.5°	437.7	456.2	474.7	479.3	524.4	584.4	614.4	661.6	755.9	826.6	837.2
140°	453.8	470.8	488.0	492.2	532.0	585.0	611.5	652.2	733.8	794.8	804.7
142.5°	466.2	482.0	497.8	501.7	538.3	587.1	611.5	647.3	718.8	772.6	781.1
145°	485.2	499.0	512.6	516.1	546.6	587.1	607.4	636.7	695.2	739.1	745.5
147.5°	504.1	517.5	530.9	534.3	558.6	591.1	607.4	630.4	676.5	711.0	716.3
150°	516.5	528.6	540.8	543.8	565.0	593.3	607.4	626.8	665.7	694.9	699.3
152.5°	529.3	538.6	547.7	550.0	569.1	594.6	607.4	624.0	657.2	682.2	685.4
155°	548.3	555.1	561.9	563.6	578.2	597.6	607.4	620.6	647.1	666.9	669.0
157.5°	562.4	569.0	575.6	577.3	587.3	600.7	607.4	617.7	638.2	653.7	655.2
160°	571.9	577.0	582.2	583.4	591.4	602.1	607.4	616.2	633.8	647.0	647.9
162.5°	581.4	585.3	589.1	590.1	595.8	603.6	607.4	614.9	629.7	640.9	641.7
165°	591.7	595.2	598.7	599.6	602.2	605.6	607.4	612.7	623.4	631.4	632.3
167.5°	601.2	602.9	604.5	604.9	607.1	610.1	611.5	614.9	622.0	627.2	627.5
170°	607.4	609.1	610.7	611.1	611.2	611.4	611.5	614.9	622.0	627.2	627.2
172.5°	610.7	611.0	611.4	611.5	611.5	611.5	611.5	614.2	619.7	623.9	623.6
175°	615.2	615.2	615.2	615.2	614.0	612.3	611.5	613.3	616.7	619.4	619.4
177.5°	615.2	615.2	615.2	615.2	614.2	613.0	612.4	613.8	616.5	618.6	618.2
180°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	968.4	965.7	968.4	966.6	967.5	964.8	956.7	954.1	956.7	959.4	959.4
5°	980.0	978.1	980.0	980.0	979.1	977.2	968.4	966.6	968.4	969.3	967.5
7.5°	983.5	980.9	983.5	981.8	981.8	980.0	971.0	969.3	970.1	972.8	970.1
10°	983.5	980.9	983.5	982.7	981.8	980.0	971.0	967.5	967.5	970.1	967.5
12.5°	979.1	977.2	979.1	977.2	977.2	975.5	966.6	962.9	963.9	964.8	961.2
15°	971.9	969.3	971.9	970.1	971.0	968.4	958.5	955.0	955.0	956.7	950.5
17.5°	961.2	957.6	961.2	960.3	959.4	957.6	948.7	945.1	944.2	945.1	940.7
20°	948.7	946.0	948.7	947.8	947.8	944.2	935.3	930.8	930.8	930.8	926.4
22.5°	929.0	926.4	929.0	930.8	930.8	929.9	921.9	915.6	913.8	913.8	908.5
25°	906.7	904.1	906.7	906.7	905.8	906.7	904.1	900.4	897.8	895.1	889.8
27.5°	885.2	883.5	885.2	883.5	885.2	882.6	881.7	880.8	877.3	874.6	867.4
30°	863.8	862.1	863.8	862.1	860.3	858.4	854.0	852.2	855.8	854.0	842.4
32.5°	837.0	835.3	837.0	837.0	835.3	835.3	828.1	825.4	826.3	831.7	821.0
35°	809.3	806.7	809.3	808.4	809.3	806.7	802.2	801.3	797.7	804.0	795.9
37.5°	777.2	774.5	777.2	777.2	777.2	779.0	775.4	772.7	767.3	775.4	769.1
40°	744.1	740.6	744.1	743.3	744.1	745.9	744.1	742.4	737.0	743.3	737.8
42.5°	706.6	705.7	706.6	707.5	707.5	711.1	713.8	710.2	708.4	703.9	707.5
45°	666.4	664.6	666.4	668.2	669.1	670.9	678.9	678.9	676.2	669.1	674.4
47.5°	623.6	619.0	623.6	628.9	628.9	631.5	639.6	645.8	641.4	632.4	635.2
50°	578.0	578.9	578.0	581.6	581.6	591.4	597.6	603.8	608.4	597.6	585.1
52.5°	533.3	532.4	533.3	536.0	539.5	544.0	554.7	561.0	568.1	561.9	542.2
55°	488.7	490.4	488.7	489.6	491.3	494.0	510.1	516.4	529.7	521.7	501.2
57.5°	444.0	441.3	444.0	445.8	446.7	449.3	462.7	474.4	482.4	483.2	458.3
60°	392.1	388.6	392.1	400.2	402.0	403.8	416.3	427.0	434.1	436.8	411.0
62.5°	346.6	340.4	346.6	352.0	355.6	360.0	369.0	385.0	391.3	392.1	355.6
65°	298.4	295.7	298.4	309.1	310.0	315.3	325.2	336.8	350.1	348.4	295.7
67.5°	254.6	254.6	254.6	261.8	267.1	269.8	282.3	287.6	304.6	306.4	246.6
70°	214.4	213.5	214.4	219.8	223.3	229.5	241.2	247.5	260.8	265.3	200.1
72.5°	176.0	175.1	176.0	180.4	184.0	189.4	199.2	206.4	218.0	223.3	155.4
75°	142.1	140.2	142.1	145.6	144.7	151.8	159.9	167.0	177.8	181.3	115.3
77.5°	109.0	109.0	109.0	112.6	112.6	119.7	123.3	132.2	138.4	143.9	84.9
80°	81.3	80.4	81.3	82.2	82.2	85.8	92.0	98.3	103.6	103.6	58.1
82.5°	57.2	55.4	57.2	57.2	57.2	59.0	62.5	64.3	67.9	70.6	36.6
85°	35.7	35.7	35.7	36.6	35.7	37.6	38.5	40.2	40.2	38.5	22.3
87.5°	23.3	22.3	23.3	22.3	22.3	21.4	21.4	21.4	20.5	19.6	12.5
90°	15.7	15.7	15.7	15.7	15.7	21.0	27.9	31.3	26.9	18.1	11.5
92.5°	62.8	50.3	62.8	75.3	78.4	111.2	154.9	176.7	155.1	112.0	79.7
95°	219.1	181.2	219.1	256.9	266.3	349.7	461.0	516.5	436.3	275.6	155.2
97.5°	524.9	453.0	524.9	596.8	614.9	667.6	737.8	773.0	639.1	371.4	170.5
100°	756.2	670.5	756.2	842.0	863.4	859.6	854.4	851.9	703.3	406.2	183.4
102.5°	983.9	910.5	983.9	1057.3	1075.6	1008.5	918.9	874.1	723.5	422.2	196.2
105°	1274.0	1234.6	1274.0	1313.5	1323.4	1172.8	972.0	871.7	725.8	434.0	215.2
107.5°	1464.1	1473.6	1464.1	1454.6	1452.2	1242.2	962.1	822.1	693.4	436.2	243.2
110°	1536.6	1577.7	1536.6	1495.6	1485.3	1250.5	937.4	780.8	664.8	432.8	258.9





TEST NUMBER: P934675

CATALOG NUMBER: SQ4-FA-075U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1543.1	1606.2	1543.1	1479.9	1464.1	1223.8	903.5	743.3	639.8	433.0	277.9
115°	1502.1	1589.7	1502.1	1414.6	1392.7	1161.2	852.6	698.2	611.1	437.0	306.4
117.5°	1415.4	1512.4	1415.4	1318.3	1294.1	1085.1	806.6	667.2	593.2	445.2	334.1
120°	1345.5	1439.8	1345.5	1251.2	1227.6	1036.7	782.2	654.9	587.1	451.7	350.1
122.5°	1277.4	1370.5	1277.4	1184.3	1161.1	989.1	760.0	645.4	584.0	461.2	369.1
125°	1180.3	1266.0	1180.3	1094.5	1073.1	927.2	732.4	635.1	581.4	474.0	393.5
127.5°	1093.0	1165.2	1093.0	1020.7	1002.6	877.2	710.0	626.4	579.9	486.8	417.0
130°	1041.4	1108.2	1041.4	974.7	958.0	846.4	697.5	623.1	580.8	496.2	432.7
132.5°	994.7	1054.6	994.7	934.9	920.0	820.1	686.8	620.2	581.4	503.8	445.5
135°	930.7	982.3	930.7	879.1	866.2	782.6	671.0	615.2	580.8	512.0	460.4
137.5°	879.4	921.7	879.4	837.2	826.6	755.9	661.6	614.4	584.4	524.4	479.3
140°	844.2	883.6	844.2	804.7	794.8	733.8	652.2	611.5	585.0	532.0	492.2
142.5°	815.0	848.9	815.0	781.1	772.6	718.8	647.3	611.5	587.1	538.3	501.7
145°	771.2	796.9	771.2	745.5	739.1	695.2	636.7	607.4	587.1	546.6	516.1
147.5°	737.6	758.9	737.6	716.3	711.0	676.5	630.4	607.4	591.1	558.6	534.3
150°	716.5	733.8	716.5	699.3	694.9	665.7	626.8	607.4	593.3	565.0	543.8
152.5°	698.4	711.5	698.4	685.4	682.2	657.2	624.0	607.4	594.6	569.1	550.0
155°	677.6	686.2	677.6	669.0	666.9	647.1	620.6	607.4	597.6	578.2	563.6
157.5°	661.2	667.2	661.2	655.2	653.7	638.2	617.7	607.4	600.7	587.3	577.3
160°	651.3	654.9	651.3	647.9	647.0	633.8	616.2	607.4	602.1	591.4	583.4
162.5°	645.0	648.2	645.0	641.7	640.9	629.7	614.9	607.4	603.6	595.8	590.1
165°	635.7	639.2	635.7	632.3	631.4	623.4	612.7	607.4	605.6	602.2	599.6
167.5°	629.1	630.5	629.1	627.5	627.2	622.0	614.9	611.5	610.1	607.1	604.9
170°	627.2	627.2	627.2	627.2	627.2	622.0	614.9	611.5	611.4	611.2	611.1
172.5°	622.3	621.0	622.3	623.6	623.9	619.7	614.2	611.5	611.5	611.5	611.5
175°	619.4	619.4	619.4	619.4	619.4	616.7	613.3	611.5	612.3	614.0	615.2
177.5°	616.7	615.2	616.7	618.2	618.6	616.5	613.8	612.4	613.0	614.2	615.2
180°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2



TEST NUMBER: P934675  
 CATALOG NUMBER: SQ4-FA-075U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	957.6	952.3	952.3	943.3	939.8	937.1	932.6	919.3	915.6	912.1	917.4
5°	965.7	955.8	948.7	932.6	919.3	913.8	896.9	864.7	843.2	827.2	818.3
7.5°	967.5	955.0	941.5	916.5	884.4	870.1	818.3	759.3	743.3	729.0	720.0
10°	965.7	951.4	932.6	895.1	819.2	794.1	742.4	703.9	694.1	691.4	694.1
12.5°	959.4	946.0	920.1	857.5	751.2	734.3	703.9	681.6	679.8	684.3	708.4
15°	948.7	936.2	905.8	807.5	713.8	701.3	679.8	671.8	681.6	712.9	785.3
17.5°	938.0	923.7	886.1	758.4	685.2	676.2	661.0	677.1	732.5	774.5	798.6
20°	923.7	906.7	863.8	722.7	664.6	656.6	649.4	721.8	763.8	779.0	792.4
22.5°	906.7	888.8	833.5	697.7	643.2	637.0	641.4	746.8	763.8	774.5	786.1
25°	884.4	869.2	797.7	678.0	626.2	619.0	636.1	744.1	753.9	756.7	779.8
27.5°	863.8	844.1	760.2	660.1	605.7	603.0	640.5	732.5	739.7	742.4	767.3
30°	838.8	809.3	718.2	641.4	584.2	583.3	641.4	718.2	716.4	723.5	748.6
32.5°	812.9	757.6	670.9	618.1	563.7	562.8	635.2	696.8	695.0	704.8	723.5
35°	788.8	717.3	606.6	591.4	537.8	538.7	619.9	671.8	672.7	681.6	693.2
37.5°	763.8	682.5	536.0	561.9	512.7	512.7	599.4	648.5	646.7	649.4	665.6
40°	734.3	628.0	473.5	523.5	489.6	486.9	574.4	623.6	617.2	616.4	638.7
42.5°	703.0	568.1	427.0	472.6	462.7	459.2	544.0	593.2	581.6	584.2	612.8
45°	669.1	552.1	391.3	399.3	435.0	432.4	511.0	558.3	550.3	557.4	586.9
47.5°	635.2	519.9	379.6	331.4	405.5	404.7	474.4	524.4	519.9	527.0	558.3
50°	588.7	484.1	378.7	284.1	372.5	376.1	430.6	491.3	491.3	497.5	530.7
52.5°	528.8	440.4	343.9	257.3	334.1	344.8	392.1	462.7	464.5	470.8	500.2
55°	474.4	394.8	318.9	236.7	288.5	311.8	354.7	433.3	436.8	443.1	469.8
57.5°	424.3	328.7	313.6	212.6	246.6	268.9	321.6	404.7	406.4	411.9	437.7
60°	370.7	237.6	287.6	186.7	209.9	226.9	291.2	370.7	377.0	380.5	402.9
62.5°	310.0	172.4	260.8	168.8	192.1	195.6	266.2	338.6	346.6	349.3	362.7
65°	220.7	144.7	221.6	153.6	173.3	174.2	239.4	305.5	312.7	317.1	327.0
67.5°	149.2	117.9	168.8	139.3	159.0	159.9	213.5	267.1	277.0	280.5	286.7
70°	103.6	78.6	125.0	124.1	143.0	144.7	185.8	232.3	241.2	243.8	247.5
72.5°	75.9	63.4	103.6	111.6	125.9	127.8	157.3	193.0	201.9	204.6	206.4
75°	58.1	67.0	84.0	97.4	107.2	108.1	128.7	157.3	163.5	165.3	166.1
77.5°	46.4	62.5	61.6	78.6	87.6	85.8	101.0	121.5	126.8	126.8	126.8
80°	34.8	49.1	46.4	56.3	64.3	62.5	72.4	86.7	88.4	90.2	89.3
82.5°	25.9	31.3	31.3	35.7	42.9	41.1	48.2	56.3	56.3	56.3	58.1
85°	16.1	17.8	14.3	18.7	24.2	23.3	26.8	30.4	31.3	31.3	29.5
87.5°	9.9	8.1	4.4	7.1	10.7	10.7	12.5	13.4	12.5	12.5	12.5
90°	10.7	7.4	4.1	7.4	10.7	11.5	18.1	26.9	31.3	27.9	21.0
92.5°	72.6	44.6	16.5	44.6	72.6	79.7	112.0	155.1	176.7	154.9	111.2
95°	142.3	91.0	39.6	91.0	142.3	155.2	275.6	436.3	516.5	461.0	349.7
97.5°	159.1	113.8	68.6	113.8	159.1	170.5	371.4	639.1	773.0	737.8	667.6
100°	173.1	132.0	90.8	132.0	173.1	183.4	406.2	703.3	851.9	854.4	859.6
102.5°	186.6	148.2	109.8	148.2	186.6	196.2	422.2	723.5	874.1	918.9	1008.5
105°	207.1	174.6	142.1	174.6	207.1	215.2	434.0	725.8	871.7	972.0	1172.8
107.5°	235.7	205.4	175.1	205.4	235.7	243.2	436.2	693.4	822.1	962.1	1242.2
110°	252.0	224.8	197.4	224.8	252.0	258.9	432.8	664.8	780.8	937.4	1250.5



TEST NUMBER: P934675

CATALOG NUMBER: SQ4-FA-075U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	271.4	245.3	219.2	245.3	271.4	277.9	433.0	639.8	743.3	903.5	1223.8
115°	300.3	276.3	252.3	276.3	300.3	306.4	437.0	611.1	698.2	852.6	1161.2
117.5°	328.6	306.7	284.9	306.7	328.6	334.1	445.2	593.2	667.2	806.6	1085.1
120°	345.0	324.5	303.9	324.5	345.0	350.1	451.7	587.1	654.9	782.2	1036.7
122.5°	364.0	343.2	322.5	343.2	364.0	369.1	461.2	584.0	645.4	760.0	989.1
125°	388.8	369.9	350.9	369.9	388.8	393.5	474.0	581.4	635.1	732.4	927.2
127.5°	412.2	393.2	374.1	393.2	412.2	417.0	486.8	579.9	626.4	710.0	877.2
130°	427.6	407.1	386.5	407.1	427.6	432.7	496.2	580.8	623.1	697.5	846.4
132.5°	440.4	419.8	399.2	419.8	440.4	445.5	503.8	581.4	620.2	686.8	820.1
135°	455.7	437.0	418.2	437.0	455.7	460.4	512.0	580.8	615.2	671.0	782.6
137.5°	474.7	456.2	437.7	456.2	474.7	479.3	524.4	584.4	614.4	661.6	755.9
140°	488.0	470.8	453.8	470.8	488.0	492.2	532.0	585.0	611.5	652.2	733.8
142.5°	497.8	482.0	466.2	482.0	497.8	501.7	538.3	587.1	611.5	647.3	718.8
145°	512.6	499.0	485.2	499.0	512.6	516.1	546.6	587.1	607.4	636.7	695.2
147.5°	530.9	517.5	504.1	517.5	530.9	534.3	558.6	591.1	607.4	630.4	676.5
150°	540.8	528.6	516.5	528.6	540.8	543.8	565.0	593.3	607.4	626.8	665.7
152.5°	547.7	538.6	529.3	538.6	547.7	550.0	569.1	594.6	607.4	624.0	657.2
155°	561.9	555.1	548.3	555.1	561.9	563.6	578.2	597.6	607.4	620.6	647.1
157.5°	575.6	569.0	562.4	569.0	575.6	577.3	587.3	600.7	607.4	617.7	638.2
160°	582.2	577.0	571.9	577.0	582.2	583.4	591.4	602.1	607.4	616.2	633.8
162.5°	589.1	585.3	581.4	585.3	589.1	590.1	595.8	603.6	607.4	614.9	629.7
165°	598.7	595.2	591.7	595.2	598.7	599.6	602.2	605.6	607.4	612.7	623.4
167.5°	604.5	602.9	601.2	602.9	604.5	604.9	607.1	610.1	611.5	614.9	622.0
170°	610.7	609.1	607.4	609.1	610.7	611.1	611.2	611.4	611.5	614.9	622.0
172.5°	611.4	611.0	610.7	611.0	611.4	611.5	611.5	611.5	611.5	614.2	619.7
175°	615.2	615.2	615.2	615.2	615.2	615.2	614.0	612.3	611.5	613.3	616.7
177.5°	615.2	615.2	615.2	615.2	615.2	615.2	614.2	613.0	612.4	613.8	616.5
180°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2



TEST NUMBER: P934675  
 CATALOG NUMBER: SQ4-FA-075U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2	944.2
2.5°	911.2	908.5	912.1	902.2	912.1	908.5	911.2	917.4	912.1	915.6	919.3
5°	799.6	795.0	780.7	769.1	780.7	795.0	799.6	818.3	827.2	843.2	864.7
7.5°	714.7	711.1	707.5	700.4	707.5	711.1	714.7	720.0	729.0	743.3	759.3
10°	695.9	696.8	702.1	701.3	702.1	696.8	695.9	694.1	691.4	694.1	703.9
12.5°	744.1	752.1	781.6	779.8	781.6	752.1	744.1	708.4	684.3	679.8	681.6
15°	799.6	802.2	808.4	809.3	808.4	802.2	799.6	785.3	712.9	681.6	671.8
17.5°	804.9	805.8	810.2	810.2	810.2	805.8	804.9	798.6	774.5	732.5	677.1
20°	800.4	802.2	811.1	812.9	811.1	802.2	800.4	792.4	779.0	763.8	721.8
22.5°	798.6	802.2	809.3	808.4	809.3	802.2	798.6	786.1	774.5	763.8	746.8
25°	789.7	789.7	790.6	791.5	790.6	789.7	789.7	779.8	756.7	753.9	744.1
27.5°	771.0	772.7	778.1	777.2	778.1	772.7	771.0	767.3	742.4	739.7	732.5
30°	753.9	752.1	747.7	744.1	747.7	752.1	753.9	748.6	723.5	716.4	718.2
32.5°	725.4	720.9	716.4	713.8	716.4	720.9	725.4	723.5	704.8	695.0	696.8
35°	691.4	692.3	691.4	688.7	691.4	692.3	691.4	693.2	681.6	672.7	671.8
37.5°	667.3	669.1	668.2	664.6	668.2	669.1	667.3	665.6	649.4	646.7	648.5
40°	642.3	643.2	642.3	639.6	642.3	643.2	642.3	638.7	616.4	617.2	623.6
42.5°	618.1	617.2	614.6	612.8	614.6	617.2	618.1	612.8	584.2	581.6	593.2
45°	590.5	591.4	586.0	583.3	586.0	591.4	590.5	586.9	557.4	550.3	558.3
47.5°	562.8	562.8	558.3	555.6	558.3	562.8	562.8	558.3	527.0	519.9	524.4
50°	533.3	532.4	526.1	525.3	526.1	532.4	533.3	530.7	497.5	491.3	491.3
52.5°	499.3	499.3	500.2	502.1	500.2	499.3	499.3	500.2	470.8	464.5	462.7
55°	469.8	470.8	477.0	478.8	477.0	470.8	469.8	469.8	443.1	436.8	433.3
57.5°	439.5	439.5	444.0	444.0	444.0	439.5	439.5	437.7	411.9	406.4	404.7
60°	404.7	406.4	410.0	409.1	410.0	406.4	404.7	402.9	380.5	377.0	370.7
62.5°	368.1	369.9	370.7	369.0	370.7	369.9	368.1	362.7	349.3	346.6	338.6
65°	329.6	331.4	332.3	330.5	332.3	331.4	329.6	327.0	317.1	312.7	305.5
67.5°	290.3	289.4	288.5	292.2	288.5	289.4	290.3	286.7	280.5	277.0	267.1
70°	250.1	250.1	249.3	251.0	249.3	250.1	250.1	247.5	243.8	241.2	232.3
72.5°	207.3	206.4	209.9	207.3	209.9	206.4	207.3	206.4	204.6	201.9	193.0
75°	165.3	167.0	165.3	167.9	165.3	167.0	165.3	166.1	165.3	163.5	157.3
77.5°	125.9	127.8	125.9	125.9	125.9	127.8	125.9	126.8	126.8	126.8	121.5
80°	89.3	88.4	88.4	87.6	88.4	88.4	89.3	89.3	90.2	88.4	86.7
82.5°	57.2	56.3	56.3	58.1	56.3	56.3	57.2	58.1	56.3	56.3	56.3
85°	31.3	32.1	30.4	30.4	30.4	32.1	31.3	29.5	31.3	31.3	30.4
87.5°	11.6	10.7	10.7	10.7	10.7	10.7	11.6	12.5	12.5	12.5	13.4
90°	15.7	15.7	15.7	15.7	15.7	15.7	15.7	21.0	27.9	31.3	26.9
92.5°	78.4	75.3	62.8	50.3	62.8	75.3	78.4	111.2	154.9	176.7	155.1
95°	266.3	256.9	219.1	181.2	219.1	256.9	266.3	349.7	461.0	516.5	436.3
97.5°	614.9	596.8	524.9	453.0	524.9	596.8	614.9	667.6	737.8	773.0	639.1
100°	863.4	842.0	756.2	670.5	756.2	842.0	863.4	859.6	854.4	851.9	703.3
102.5°	1075.6	1057.3	983.9	910.5	983.9	1057.3	1075.6	1008.5	918.9	874.1	723.5
105°	1323.4	1313.5	1274.0	1234.6	1274.0	1313.5	1323.4	1172.8	972.0	871.7	725.8
107.5°	1452.2	1454.6	1464.1	1473.6	1464.1	1454.6	1452.2	1242.2	962.1	822.1	693.4
110°	1485.3	1495.6	1536.6	1577.7	1536.6	1495.6	1485.3	1250.5	937.4	780.8	664.8



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1464.1	1479.9	1543.1	1606.2	1543.1	1479.9	1464.1	1223.8	903.5	743.3	639.8
115°	1392.7	1414.6	1502.1	1589.7	1502.1	1414.6	1392.7	1161.2	852.6	698.2	611.1
117.5°	1294.1	1318.3	1415.4	1512.4	1415.4	1318.3	1294.1	1085.1	806.6	667.2	593.2
120°	1227.6	1251.2	1345.5	1439.8	1345.5	1251.2	1227.6	1036.7	782.2	654.9	587.1
122.5°	1161.1	1184.3	1277.4	1370.5	1277.4	1184.3	1161.1	989.1	760.0	645.4	584.0
125°	1073.1	1094.5	1180.3	1266.0	1180.3	1094.5	1073.1	927.2	732.4	635.1	581.4
127.5°	1002.6	1020.7	1093.0	1165.2	1093.0	1020.7	1002.6	877.2	710.0	626.4	579.9
130°	958.0	974.7	1041.4	1108.2	1041.4	974.7	958.0	846.4	697.5	623.1	580.8
132.5°	920.0	934.9	994.7	1054.6	994.7	934.9	920.0	820.1	686.8	620.2	581.4
135°	866.2	879.1	930.7	982.3	930.7	879.1	866.2	782.6	671.0	615.2	580.8
137.5°	826.6	837.2	879.4	921.7	879.4	837.2	826.6	755.9	661.6	614.4	584.4
140°	794.8	804.7	844.2	883.6	844.2	804.7	794.8	733.8	652.2	611.5	585.0
142.5°	772.6	781.1	815.0	848.9	815.0	781.1	772.6	718.8	647.3	611.5	587.1
145°	739.1	745.5	771.2	796.9	771.2	745.5	739.1	695.2	636.7	607.4	587.1
147.5°	711.0	716.3	737.6	758.9	737.6	716.3	711.0	676.5	630.4	607.4	591.1
150°	694.9	699.3	716.5	733.8	716.5	699.3	694.9	665.7	626.8	607.4	593.3
152.5°	682.2	685.4	698.4	711.5	698.4	685.4	682.2	657.2	624.0	607.4	594.6
155°	666.9	669.0	677.6	686.2	677.6	669.0	666.9	647.1	620.6	607.4	597.6
157.5°	653.7	655.2	661.2	667.2	661.2	655.2	653.7	638.2	617.7	607.4	600.7
160°	647.0	647.9	651.3	654.9	651.3	647.9	647.0	633.8	616.2	607.4	602.1
162.5°	640.9	641.7	645.0	648.2	645.0	641.7	640.9	629.7	614.9	607.4	603.6
165°	631.4	632.3	635.7	639.2	635.7	632.3	631.4	623.4	612.7	607.4	605.6
167.5°	627.2	627.5	629.1	630.5	629.1	627.5	627.2	622.0	614.9	611.5	610.1
170°	627.2	627.2	627.2	627.2	627.2	627.2	627.2	622.0	614.9	611.5	611.4
172.5°	623.9	623.6	622.3	621.0	622.3	623.6	623.9	619.7	614.2	611.5	611.5
175°	619.4	619.4	619.4	619.4	619.4	619.4	619.4	616.7	613.3	611.5	612.3
177.5°	618.6	618.2	616.7	615.2	616.7	618.2	618.6	616.5	613.8	612.4	613.0
180°	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2	615.2



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	944.2	944.2	944.2	944.2	944.2
2.5°	932.6	937.1	939.8	943.3	952.3
5°	896.9	913.8	919.3	932.6	948.7
7.5°	818.3	870.1	884.4	916.5	941.5
10°	742.4	794.1	819.2	895.1	932.6
12.5°	703.9	734.3	751.2	857.5	920.1
15°	679.8	701.3	713.8	807.5	905.8
17.5°	661.0	676.2	685.2	758.4	886.1
20°	649.4	656.6	664.6	722.7	863.8
22.5°	641.4	637.0	643.2	697.7	833.5
25°	636.1	619.0	626.2	678.0	797.7
27.5°	640.5	603.0	605.7	660.1	760.2
30°	641.4	583.3	584.2	641.4	718.2
32.5°	635.2	562.8	563.7	618.1	670.9
35°	619.9	538.7	537.8	591.4	606.6
37.5°	599.4	512.7	512.7	561.9	536.0
40°	574.4	486.9	489.6	523.5	473.5
42.5°	544.0	459.2	462.7	472.6	427.0
45°	511.0	432.4	435.0	399.3	391.3
47.5°	474.4	404.7	405.5	331.4	379.6
50°	430.6	376.1	372.5	284.1	378.7
52.5°	392.1	344.8	334.1	257.3	343.9
55°	354.7	311.8	288.5	236.7	318.9
57.5°	321.6	268.9	246.6	212.6	313.6
60°	291.2	226.9	209.9	186.7	287.6
62.5°	266.2	195.6	192.1	168.8	260.8
65°	239.4	174.2	173.3	153.6	221.6
67.5°	213.5	159.9	159.0	139.3	168.8
70°	185.8	144.7	143.0	124.1	125.0
72.5°	157.3	127.8	125.9	111.6	103.6
75°	128.7	108.1	107.2	97.4	84.0
77.5°	101.0	85.8	87.6	78.6	61.6
80°	72.4	62.5	64.3	56.3	46.4
82.5°	48.2	41.1	42.9	35.7	31.3
85°	26.8	23.3	24.2	18.7	14.3
87.5°	12.5	10.7	10.7	7.1	4.4
90°	18.1	11.5	10.7	7.4	4.1
92.5°	112.0	79.7	72.6	44.6	16.5
95°	275.6	155.2	142.3	91.0	39.6
97.5°	371.4	170.5	159.1	113.8	68.6
100°	406.2	183.4	173.1	132.0	90.8
102.5°	422.2	196.2	186.6	148.2	109.8
105°	434.0	215.2	207.1	174.6	142.1
107.5°	436.2	243.2	235.7	205.4	175.1
110°	432.8	258.9	252.0	224.8	197.4



TEST NUMBER: P934675

CATALOG NUMBER: SQ4-FA-075U-050D-940-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	433.0	277.9	271.4	245.3	219.2
115°	437.0	306.4	300.3	276.3	252.3
117.5°	445.2	334.1	328.6	306.7	284.9
120°	451.7	350.1	345.0	324.5	303.9
122.5°	461.2	369.1	364.0	343.2	322.5
125°	474.0	393.5	388.8	369.9	350.9
127.5°	486.8	417.0	412.2	393.2	374.1
130°	496.2	432.7	427.6	407.1	386.5
132.5°	503.8	445.5	440.4	419.8	399.2
135°	512.0	460.4	455.7	437.0	418.2
137.5°	524.4	479.3	474.7	456.2	437.7
140°	532.0	492.2	488.0	470.8	453.8
142.5°	538.3	501.7	497.8	482.0	466.2
145°	546.6	516.1	512.6	499.0	485.2
147.5°	558.6	534.3	530.9	517.5	504.1
150°	565.0	543.8	540.8	528.6	516.5
152.5°	569.1	550.0	547.7	538.6	529.3
155°	578.2	563.6	561.9	555.1	548.3
157.5°	587.3	577.3	575.6	569.0	562.4
160°	591.4	583.4	582.2	577.0	571.9
162.5°	595.8	590.1	589.1	585.3	581.4
165°	602.2	599.6	598.7	595.2	591.7
167.5°	607.1	604.9	604.5	602.9	601.2
170°	611.2	611.1	610.7	609.1	607.4
172.5°	611.5	611.5	611.4	611.0	610.7
175°	614.0	615.2	615.2	615.2	615.2
177.5°	614.2	615.2	615.2	615.2	615.2
180°	615.2	615.2	615.2	615.2	615.2



TEST NUMBER: P934675  
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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	9.72	10.48	10.77	11.54	12.97	12.54	13.31	13.60	14.36	15.80
	3H	10.19	10.87	11.25	11.94	13.39	13.88	14.56	14.94	15.63	17.08
	4H	10.37	11.02	11.45	12.09	13.55	14.32	14.97	15.39	16.03	17.49
	6H	10.49	11.08	11.57	12.16	13.63	14.60	15.19	15.68	16.26	17.73
	8H	10.49	11.05	11.57	12.14	13.61	14.67	15.23	15.76	16.32	17.79
	12H	10.45	10.99	11.55	12.07	13.56	14.70	15.24	15.79	16.32	17.81
4H	2H	10.74	11.39	11.82	12.45	13.91	12.94	13.59	14.02	14.66	16.11
	3H	11.76	12.30	12.84	13.39	14.86	14.44	14.98	15.52	16.07	17.54
	4H	12.03	12.52	13.12	13.61	15.10	14.96	15.45	16.05	16.54	18.03
	6H	12.15	12.57	13.25	13.68	15.17	15.32	15.74	16.42	16.85	18.33
	8H	12.15	12.55	13.25	13.65	15.15	15.42	15.82	16.52	16.92	18.42
	12H	12.11	12.47	13.23	13.59	15.09	15.47	15.83	16.59	16.94	18.45
8H	4H	12.47	12.87	13.57	13.97	15.47	15.07	15.47	16.18	16.57	18.07
	6H	12.73	13.06	13.85	14.20	15.70	15.51	15.83	16.63	16.98	18.47
	8H	12.77	13.06	13.90	14.18	15.70	15.66	15.94	16.79	17.07	18.58
	12H	12.75	13.00	13.88	14.12	15.68	15.75	16.00	16.88	17.12	18.68
12H	4H	12.47	12.83	13.59	13.95	15.45	15.03	15.39	16.15	16.51	18.01
	6H	12.79	13.08	13.92	14.20	15.72	15.50	15.79	16.63	16.91	18.43
	8H	12.85	13.10	13.99	14.22	15.78	15.66	15.91	16.79	17.03	18.58