

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: P934798

Luminaire Tested: SQ4-FA-075U-075D-B35-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

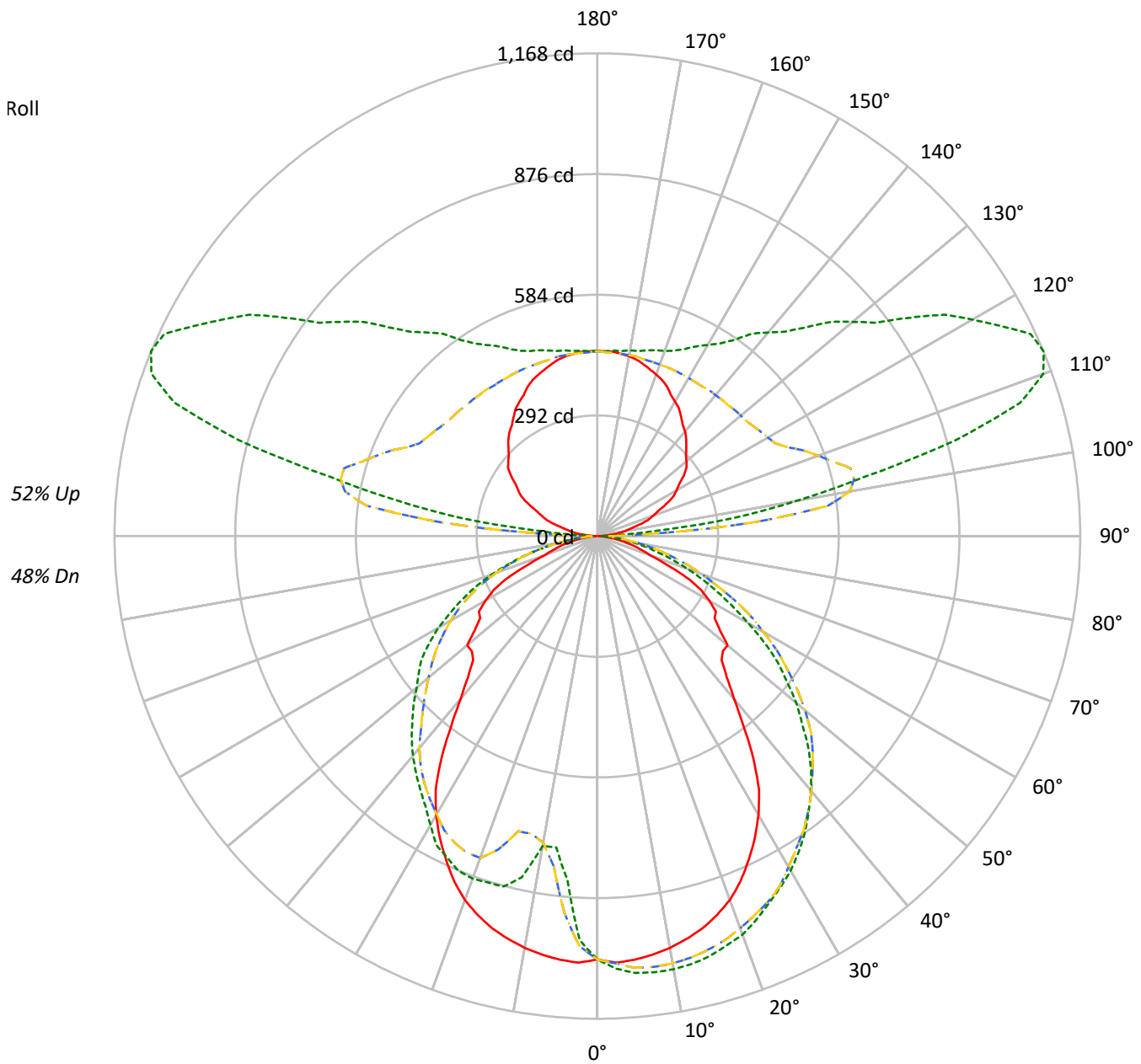
Test Method: LM-79-2019  
Report Number: P934798  
REPORT IS A COMBINATION OF REPORTS P933710 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-075D-B35-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5559.1 lumens  
Efficiency: N/A  
Efficacy: 131.1 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): 42.4  
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	
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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	82	79	72	70	68	60	58	56	48	47	46	40
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	54	56	51	47	46	43	40	37	35	33	29
4	74	63	55	49	68	58	52	46	49	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	34	37	33	29	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	33	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	15	13
10	46	34	27	22	43	32	26	21	28	22	19	23	19	16	19	16	14	12

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

	0°	90°	180°	270°
0°	9505	9505	9505	9505
5°	9566	9595	9566	7545
10°	9491	9453	9491	6758
15°	9378	9248	9378	7721
20°	9170	9004	9170	7737
25°	8758	8650	8758	7573
30°	8230	8357	8230	7214
35°	7325	7985	7325	6818
40°	6095	7548	6095	6519
45°	5435	7036	5435	6176
50°	5762	6425	5762	5831
55°	5405	5768	5405	5631
60°	5550	4899	5550	5158
65°	5008	4048	5008	4526
70°	3445	3227	3445	3794
75°	2987	2384	2987	2856
80°	2359	1577	2359	1718
85°	1283	836	1283	709

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8346 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	92.5	1.7
10°-20°	262.5	4.7
20°-30°	405.8	7.3
30°-40°	484.5	8.7
40°-50°	487.3	8.8
50°-60°	424.0	7.6
60°-70°	300.6	5.4
70°-80°	159.0	2.9
80°-90°	41.3	0.7
90°-100°	218.2	3.9
100°-110°	573.6	10.3
110°-120°	594.7	10.7
120°-130°	477.1	8.6
130°-140°	374.3	6.7
140°-150°	287.3	5.2
150°-160°	206.9	3.7
160°-170°	126.6	2.3
170°-180°	42.8	0.8
0°-30°	760.8	13.7
0°-40°	1245.3	22.4
0°-60°	2156.7	38.8
0°-90°	2657.7	47.8
90°-120°	1386.5	24.9
90°-150°	2525.2	45.4
90°-180°	2901.0	52.2
0°-180°	5559.1	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1024	1024	1024	1024	1024	
5°	1029	1061	1029	834	1029	98
15°	983	1052	983	878	983	276
25°	865	981	865	859	865	397
35°	658	875	658	747	658	407
45°	424	721	424	633	424	340
55°	346	532	346	520	346	318
65°	240	321	240	359	240	230
75°	91	152	91	182	91	96
85°	16	39	16	33	16	21
90°	3	11	3	11	3	3
95°	29	132	29	132	29	32
105°	103	898	103	898	103	110
115°	184	1156	184	1156	184	181
125°	255	921	255	921	255	227
135°	304	715	304	715	304	235
145°	353	580	353	580	353	221
155°	399	499	399	499	399	183
165°	430	465	430	465	430	121
175°	448	451	448	451	448	42
180°	448	448	448	448	448	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1033.1	1033.1	1039.0	1040.9	1040.9	1038.0	1035.1	1038.0	1046.7	1049.6	1048.7
5°	1029.2	1037.0	1047.7	1049.6	1051.6	1050.6	1048.7	1050.6	1060.3	1062.2	1063.2
7.5°	1021.4	1036.1	1049.6	1052.5	1055.4	1052.5	1051.6	1053.5	1063.2	1065.1	1065.1
10°	1011.7	1032.1	1047.7	1049.6	1052.5	1049.6	1049.6	1053.5	1063.2	1065.1	1066.1
12.5°	998.2	1026.3	1040.9	1042.8	1046.7	1045.7	1044.8	1048.7	1058.3	1060.3	1060.3
15°	982.7	1015.6	1029.2	1031.1	1038.0	1036.1	1036.1	1039.9	1050.6	1053.5	1052.5
17.5°	961.3	1002.0	1017.5	1020.5	1025.3	1024.3	1025.3	1029.2	1039.0	1040.9	1041.9
20°	937.1	983.6	1002.0	1004.9	1009.8	1009.8	1009.8	1014.6	1024.3	1028.2	1028.2
22.5°	904.2	964.3	983.6	985.6	991.4	991.4	993.3	1000.1	1008.8	1009.8	1009.8
25°	865.4	942.9	959.4	965.2	971.0	973.9	976.8	980.7	983.6	982.7	983.6
27.5°	824.7	915.8	937.1	941.0	948.7	951.7	955.5	956.5	957.5	960.4	958.4
30°	779.2	878.0	910.0	913.9	926.5	928.4	924.5	926.5	931.3	933.2	935.2
32.5°	727.8	821.8	881.9	890.6	902.2	896.4	895.5	898.4	906.1	906.1	908.0
35°	658.0	778.2	855.7	863.5	872.2	865.4	869.3	870.3	875.1	878.0	877.0
37.5°	581.5	740.4	828.6	834.4	841.2	832.5	838.3	841.2	845.1	843.1	843.1
40°	513.7	681.3	796.6	800.5	806.3	799.5	805.3	807.3	809.2	807.3	806.3
42.5°	463.3	616.4	762.7	767.5	763.7	768.5	770.5	774.3	771.4	767.5	767.5
45°	424.5	598.9	725.9	731.7	725.9	733.6	736.5	736.5	727.8	725.9	724.9
47.5°	411.9	564.1	689.1	689.1	686.1	695.8	700.7	693.9	685.2	682.3	682.3
50°	411.0	525.3	638.7	634.8	648.4	660.0	655.1	648.4	641.6	630.9	630.9
52.5°	373.2	477.8	573.7	588.3	609.6	616.4	608.6	601.8	590.2	585.4	581.5
55°	346.0	428.4	514.6	543.7	566.0	574.7	560.2	553.4	536.0	533.0	531.1
57.5°	340.1	356.7	460.4	497.2	524.3	523.4	514.6	502.0	487.5	484.6	483.6
60°	312.0	257.8	402.2	445.8	473.9	471.0	463.3	451.7	438.1	436.1	434.2
62.5°	282.9	187.0	336.2	385.8	425.5	424.5	417.7	400.3	390.6	385.8	381.9
65°	240.3	157.0	239.3	320.7	378.0	379.9	365.4	352.8	342.1	336.2	335.3
67.5°	183.1	127.9	161.8	267.4	332.4	330.4	312.0	306.2	292.6	289.7	283.9
70°	135.7	85.3	112.4	217.1	287.8	282.9	268.4	261.6	249.0	242.2	238.4
72.5°	112.4	68.8	82.4	168.6	242.2	236.4	223.8	216.1	205.4	199.6	195.7
75°	91.1	72.7	63.0	125.0	196.7	192.8	181.2	173.5	164.7	157.0	157.9
77.5°	66.9	67.8	50.4	92.1	156.0	150.2	143.4	133.7	129.8	122.1	122.1
80°	50.4	53.3	37.8	63.0	112.4	112.4	106.6	99.8	93.0	89.1	89.1
82.5°	33.9	33.9	28.1	39.7	76.6	73.6	69.8	67.8	64.0	62.0	62.0
85°	15.5	19.4	17.4	24.2	41.7	43.6	43.6	41.7	40.7	38.8	39.7
87.5°	4.8	8.7	10.7	13.6	21.3	22.3	23.3	23.3	23.3	24.2	24.2
90°	3.0	5.4	7.8	8.4	13.3	19.7	22.9	20.3	15.2	11.4	11.4
92.5°	12.0	32.5	52.8	57.9	81.5	112.9	128.6	112.7	80.9	57.1	54.8
95°	28.9	66.3	103.7	113.0	200.6	317.3	375.8	335.3	254.4	193.7	186.8
97.5°	49.9	82.8	115.8	124.0	270.2	464.9	562.3	536.7	485.7	447.3	434.2
100°	66.1	95.9	125.9	133.3	295.4	511.6	619.7	621.5	625.3	628.1	612.5
102.5°	79.9	107.8	135.7	142.6	307.1	526.4	636.0	668.5	733.6	782.5	769.1
105°	103.3	126.9	150.6	156.5	315.7	528.0	634.1	707.2	853.2	962.7	955.5
107.5°	127.3	149.4	171.4	176.9	317.3	504.5	598.1	699.9	903.6	1056.4	1058.1
110°	143.6	163.5	183.4	188.4	314.9	483.6	568.0	681.9	909.6	1080.4	1087.9



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	159.5	178.5	197.4	202.1	315.0	465.5	540.7	657.3	890.3	1065.1	1076.7
115°	183.5	201.0	218.5	222.9	317.9	444.6	507.9	620.3	844.8	1013.2	1029.1
117.5°	207.3	223.2	239.1	243.0	323.8	431.5	485.4	586.7	789.3	941.4	959.0
120°	221.1	236.0	251.0	254.8	328.6	427.1	476.4	569.0	754.2	893.0	910.2
122.5°	234.6	249.7	264.7	268.5	335.5	424.8	469.5	552.8	719.6	844.7	861.6
125°	255.3	269.1	282.9	286.2	344.9	423.0	462.0	532.9	674.5	780.7	796.3
127.5°	272.2	286.0	299.9	303.4	354.2	421.9	455.7	516.6	638.2	729.4	742.5
130°	281.2	296.1	311.0	314.8	361.0	422.5	453.3	507.5	615.7	696.9	709.0
132.5°	290.5	305.4	320.4	324.1	366.5	423.0	451.2	499.6	596.6	669.3	680.1
135°	304.3	317.8	331.5	334.9	372.5	422.6	447.6	488.2	569.4	630.2	639.6
137.5°	318.4	331.9	345.4	348.7	381.5	425.2	447.0	481.3	549.9	601.4	609.0
140°	330.1	342.5	354.9	358.0	387.0	425.6	444.9	474.5	533.7	578.2	585.4
142.5°	339.2	350.6	362.0	364.9	391.6	427.1	444.9	470.9	523.0	562.0	568.2
145°	352.9	363.0	373.0	375.5	397.6	427.1	441.9	463.2	505.7	537.7	542.3
147.5°	366.8	376.5	386.2	388.7	406.4	430.0	441.9	458.6	492.2	517.3	521.1
150°	375.8	384.6	393.4	395.6	411.0	431.6	441.9	456.0	484.3	505.5	508.6
152.5°	385.1	391.8	398.5	400.1	414.1	432.6	441.9	454.0	478.1	496.2	498.6
155°	398.9	403.9	408.7	410.0	420.6	434.8	441.9	451.5	470.6	485.1	486.6
157.5°	409.1	414.0	418.8	420.0	427.2	437.0	441.9	449.3	464.2	475.5	476.6
160°	416.0	419.8	423.5	424.4	430.2	438.0	441.9	448.3	461.1	470.7	471.3
162.5°	423.0	425.8	428.6	429.3	433.4	439.1	441.9	447.3	458.0	466.2	466.8
165°	430.4	432.9	435.5	436.1	438.1	440.6	441.9	445.7	453.5	459.3	460.0
167.5°	437.3	438.5	439.7	440.0	441.7	443.8	444.9	447.4	452.5	456.3	456.6
170°	441.9	443.0	444.3	444.6	444.7	444.8	444.9	447.4	452.5	456.3	456.3
172.5°	444.3	444.6	444.8	444.9	444.9	444.9	444.9	446.9	450.9	453.9	453.7
175°	447.6	447.6	447.6	447.6	446.7	445.4	444.9	446.1	448.6	450.6	450.6
177.5°	447.6	447.6	447.6	447.6	446.9	445.9	445.4	446.4	448.5	450.0	449.7
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1050.6	1047.7	1050.6	1048.7	1049.6	1046.7	1038.0	1035.1	1038.0	1040.9	1040.9
5°	1063.2	1061.2	1063.2	1063.2	1062.2	1060.3	1050.6	1048.7	1050.6	1051.6	1049.6
7.5°	1067.1	1064.2	1067.1	1065.1	1065.1	1063.2	1053.5	1051.6	1052.5	1055.4	1052.5
10°	1067.1	1064.2	1067.1	1066.1	1065.1	1063.2	1053.5	1049.6	1049.6	1052.5	1049.6
12.5°	1062.2	1060.3	1062.2	1060.3	1060.3	1058.3	1048.7	1044.8	1045.7	1046.7	1042.8
15°	1054.5	1051.6	1054.5	1052.5	1053.5	1050.6	1039.9	1036.1	1036.1	1038.0	1031.1
17.5°	1042.8	1039.0	1042.8	1041.9	1040.9	1039.0	1029.2	1025.3	1024.3	1025.3	1020.5
20°	1029.2	1026.3	1029.2	1028.2	1028.2	1024.3	1014.6	1009.8	1009.8	1009.8	1004.9
22.5°	1007.9	1004.9	1007.9	1009.8	1009.8	1008.8	1000.1	993.3	991.4	991.4	985.6
25°	983.6	980.7	983.6	983.6	982.7	983.6	980.7	976.8	973.9	971.0	965.2
27.5°	960.4	958.4	960.4	958.4	960.4	957.5	956.5	955.5	951.7	948.7	941.0
30°	937.1	935.2	937.1	935.2	933.2	931.3	926.5	924.5	928.4	926.5	913.9
32.5°	908.0	906.1	908.0	908.0	906.1	906.1	898.4	895.5	896.4	902.2	890.6
35°	878.0	875.1	878.0	877.0	878.0	875.1	870.3	869.3	865.4	872.2	863.5
37.5°	843.1	840.2	843.1	843.1	843.1	845.1	841.2	838.3	832.5	841.2	834.4
40°	807.3	803.4	807.3	806.3	807.3	809.2	807.3	805.3	799.5	806.3	800.5
42.5°	766.6	765.6	766.6	767.5	767.5	771.4	774.3	770.5	768.5	763.7	767.5
45°	723.0	721.0	723.0	724.9	725.9	727.8	736.5	736.5	733.6	725.9	731.7
47.5°	676.5	671.6	676.5	682.3	682.3	685.2	693.9	700.7	695.8	686.1	689.1
50°	627.0	628.0	627.0	630.9	630.9	641.6	648.4	655.1	660.0	648.4	634.8
52.5°	578.6	577.6	578.6	581.5	585.4	590.2	601.8	608.6	616.4	609.6	588.3
55°	530.1	532.1	530.1	531.1	533.0	536.0	553.4	560.2	574.7	566.0	543.7
57.5°	481.7	478.8	481.7	483.6	484.6	487.5	502.0	514.6	523.4	524.3	497.2
60°	425.5	421.6	425.5	434.2	436.1	438.1	451.7	463.3	471.0	473.9	445.8
62.5°	376.1	369.3	376.1	381.9	385.8	390.6	400.3	417.7	424.5	425.5	385.8
65°	323.6	320.7	323.6	335.3	336.2	342.1	352.8	365.4	379.9	378.0	320.7
67.5°	276.2	276.2	276.2	283.9	289.7	292.6	306.2	312.0	330.4	332.4	267.4
70°	232.6	231.6	232.6	238.4	242.2	249.0	261.6	268.4	282.9	287.8	217.1
72.5°	190.9	189.9	190.9	195.7	199.6	205.4	216.1	223.8	236.4	242.2	168.6
75°	154.1	152.1	154.1	157.9	157.0	164.7	173.5	181.2	192.8	196.7	125.0
77.5°	118.2	118.2	118.2	122.1	122.1	129.8	133.7	143.4	150.2	156.0	92.1
80°	88.2	87.2	88.2	89.1	89.1	93.0	99.8	106.6	112.4	112.4	63.0
82.5°	62.0	60.1	62.0	62.0	62.0	64.0	67.8	69.8	73.6	76.6	39.7
85°	38.8	38.8	38.8	39.7	38.8	40.7	41.7	43.6	43.6	41.7	24.2
87.5°	25.2	24.2	25.2	24.2	24.2	23.3	23.3	23.3	22.3	21.3	13.6
90°	11.4	11.4	11.4	11.4	11.4	15.2	20.3	22.9	19.7	13.3	8.4
92.5°	45.7	36.6	45.7	54.8	57.1	80.9	112.7	128.6	112.9	81.5	57.9
95°	159.4	131.9	159.4	186.8	193.7	254.4	335.3	375.8	317.3	200.6	113.0
97.5°	381.9	329.6	381.9	434.2	447.3	485.7	536.7	562.3	464.9	270.2	124.0
100°	550.2	487.8	550.2	612.5	628.1	625.3	621.5	619.7	511.6	295.4	133.3
102.5°	715.7	662.3	715.7	769.1	782.5	733.6	668.5	636.0	526.4	307.1	142.6
105°	926.8	898.2	926.8	955.5	962.7	853.2	707.2	634.1	528.0	315.7	156.5
107.5°	1065.1	1072.1	1065.1	1058.1	1056.4	903.6	699.9	598.1	504.5	317.3	176.9
110°	1117.8	1147.8	1117.8	1087.9	1080.4	909.6	681.9	568.0	483.6	314.9	188.4





TEST NUMBER: P934798

CATALOG NUMBER: SQ4-FA-075U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1122.6	1168.5	1122.6	1076.7	1065.1	890.3	657.3	540.7	465.5	315.0	202.1
115°	1092.8	1156.5	1092.8	1029.1	1013.2	844.8	620.3	507.9	444.6	317.9	222.9
117.5°	1029.7	1100.3	1029.7	959.0	941.4	789.3	586.7	485.4	431.5	323.8	243.0
120°	978.8	1047.4	978.8	910.2	893.0	754.2	569.0	476.4	427.1	328.6	254.8
122.5°	929.3	997.0	929.3	861.6	844.7	719.6	552.8	469.5	424.8	335.5	268.5
125°	858.6	920.9	858.6	796.3	780.7	674.5	532.9	462.0	423.0	344.9	286.2
127.5°	795.1	847.7	795.1	742.5	729.4	638.2	516.6	455.7	421.9	354.2	303.4
130°	757.7	806.2	757.7	709.0	696.9	615.7	507.5	453.3	422.5	361.0	314.8
132.5°	723.6	767.2	723.6	680.1	669.3	596.6	499.6	451.2	423.0	366.5	324.1
135°	677.1	714.6	677.1	639.6	630.2	569.4	488.2	447.6	422.6	372.5	334.9
137.5°	639.7	670.5	639.7	609.0	601.4	549.9	481.3	447.0	425.2	381.5	348.7
140°	614.2	642.8	614.2	585.4	578.2	533.7	474.5	444.9	425.6	387.0	358.0
142.5°	592.8	617.5	592.8	568.2	562.0	523.0	470.9	444.9	427.1	391.6	364.9
145°	561.1	579.8	561.1	542.3	537.7	505.7	463.2	441.9	427.1	397.6	375.5
147.5°	536.6	552.1	536.6	521.1	517.3	492.2	458.6	441.9	430.0	406.4	388.7
150°	521.2	533.8	521.2	508.6	505.5	484.3	456.0	441.9	431.6	411.0	395.6
152.5°	508.0	517.5	508.0	498.6	496.2	478.1	454.0	441.9	432.6	414.1	400.1
155°	492.9	499.2	492.9	486.6	485.1	470.6	451.5	441.9	434.8	420.6	410.0
157.5°	481.0	485.4	481.0	476.6	475.5	464.2	449.3	441.9	437.0	427.2	420.0
160°	473.8	476.4	473.8	471.3	470.7	461.1	448.3	441.9	438.0	430.2	424.4
162.5°	469.2	471.6	469.2	466.8	466.2	458.0	447.3	441.9	439.1	433.4	429.3
165°	462.5	465.0	462.5	460.0	459.3	453.5	445.7	441.9	440.6	438.1	436.1
167.5°	457.7	458.7	457.7	456.6	456.3	452.5	447.4	444.9	443.8	441.7	440.0
170°	456.3	456.3	456.3	456.3	456.3	452.5	447.4	444.9	444.8	444.7	444.6
172.5°	452.7	451.7	452.7	453.7	453.9	450.9	446.9	444.9	444.9	444.9	444.9
175°	450.6	450.6	450.6	450.6	450.6	448.6	446.1	444.9	445.4	446.7	447.6
177.5°	448.6	447.6	448.6	449.7	450.0	448.5	446.4	445.4	445.9	446.9	447.6
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6



TEST NUMBER: P934798

CATALOG NUMBER: SQ4-FA-075U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1039.0	1033.1	1033.1	1023.4	1019.5	1016.6	1011.7	997.2	993.3	989.4	995.3
5°	1047.7	1037.0	1029.2	1011.7	997.2	991.4	973.0	938.1	914.8	897.4	887.7
7.5°	1049.6	1036.1	1021.4	994.3	959.4	943.9	887.7	823.7	806.3	790.8	781.1
10°	1047.7	1032.1	1011.7	971.0	888.7	861.5	805.3	763.7	753.0	750.1	753.0
12.5°	1040.9	1026.3	998.2	930.3	815.0	796.6	763.7	739.4	737.5	742.4	768.5
15°	1029.2	1015.6	982.7	876.1	774.3	760.8	737.5	728.8	739.4	773.4	851.8
17.5°	1017.5	1002.0	961.3	822.8	743.3	733.6	717.2	734.6	794.7	840.2	866.4
20°	1002.0	983.6	937.1	784.0	721.0	712.3	704.6	783.0	828.6	845.1	859.6
22.5°	983.6	964.3	904.2	756.9	697.8	691.0	695.8	810.2	828.6	840.2	852.8
25°	959.4	942.9	865.4	735.6	679.4	671.6	690.0	807.3	817.9	820.8	846.0
27.5°	937.1	915.8	824.7	716.2	657.1	654.2	694.9	794.7	802.4	805.3	832.5
30°	910.0	878.0	779.2	695.8	633.8	632.9	695.8	779.2	777.2	785.0	812.1
32.5°	881.9	821.8	727.8	670.6	611.5	610.6	689.1	755.9	754.0	764.6	785.0
35°	855.7	778.2	658.0	641.6	583.4	584.4	672.6	728.8	729.8	739.4	752.0
37.5°	828.6	740.4	581.5	609.6	556.3	556.3	650.3	703.6	701.7	704.6	722.0
40°	796.6	681.3	513.7	567.9	531.1	528.2	623.2	676.5	669.7	668.7	692.9
42.5°	762.7	616.4	463.3	512.7	502.0	498.2	590.2	643.5	630.9	633.8	664.8
45°	725.9	598.9	424.5	433.2	472.0	469.1	554.4	605.7	597.0	604.8	636.7
47.5°	689.1	564.1	411.9	359.6	440.0	439.1	514.6	568.9	564.1	571.8	605.7
50°	638.7	525.3	411.0	308.1	404.2	408.0	467.2	533.0	533.0	539.8	575.7
52.5°	573.7	477.8	373.2	279.1	362.5	374.1	425.5	502.0	504.0	510.8	542.7
55°	514.6	428.4	346.0	256.8	313.0	338.2	384.8	470.1	473.9	480.7	509.8
57.5°	460.4	356.7	340.1	230.6	267.4	291.7	348.9	439.1	441.0	446.8	474.9
60°	402.2	257.8	312.0	202.5	227.7	246.1	315.9	402.2	409.0	412.9	437.1
62.5°	336.2	187.0	282.9	183.1	208.3	212.2	288.8	367.3	376.1	379.0	393.5
65°	239.3	157.0	240.3	166.7	188.0	189.0	259.7	331.4	339.2	344.0	354.8
67.5°	161.8	127.9	183.1	151.2	172.5	173.5	231.6	289.7	300.4	304.3	311.0
70°	112.4	85.3	135.7	134.7	155.0	157.0	201.6	251.9	261.6	264.5	268.4
72.5°	82.4	68.8	112.4	121.1	136.6	138.6	170.5	209.3	219.0	221.9	223.8
75°	63.0	72.7	91.1	105.6	116.3	117.2	139.5	170.5	177.3	179.3	180.2
77.5°	50.4	67.8	66.9	85.3	95.0	93.0	109.5	131.8	137.6	137.6	137.6
80°	37.8	53.3	50.4	61.0	69.8	67.8	78.5	94.0	95.9	97.9	96.9
82.5°	28.1	33.9	33.9	38.8	46.5	44.6	52.3	61.0	61.0	61.0	63.0
85°	17.4	19.4	15.5	20.3	26.2	25.2	29.1	32.9	33.9	33.9	32.0
87.5°	10.7	8.7	4.8	7.8	11.6	11.6	13.6	14.5	13.6	13.6	13.6
90°	7.8	5.4	3.0	5.4	7.8	8.4	13.3	19.7	22.9	20.3	15.2
92.5°	52.8	32.5	12.0	32.5	52.8	57.9	81.5	112.9	128.6	112.7	80.9
95°	103.7	66.3	28.9	66.3	103.7	113.0	200.6	317.3	375.8	335.3	254.4
97.5°	115.8	82.8	49.9	82.8	115.8	124.0	270.2	464.9	562.3	536.7	485.7
100°	125.9	95.9	66.1	95.9	125.9	133.3	295.4	511.6	619.7	621.5	625.3
102.5°	135.7	107.8	79.9	107.8	135.7	142.6	307.1	526.4	636.0	668.5	733.6
105°	150.6	126.9	103.3	126.9	150.6	156.5	315.7	528.0	634.1	707.2	853.2
107.5°	171.4	149.4	127.3	149.4	171.4	176.9	317.3	504.5	598.1	699.9	903.6
110°	183.4	163.5	143.6	163.5	183.4	188.4	314.9	483.6	568.0	681.9	909.6



TEST NUMBER: P934798

CATALOG NUMBER: SQ4-FA-075U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	197.4	178.5	159.5	178.5	197.4	202.1	315.0	465.5	540.7	657.3	890.3
115°	218.5	201.0	183.5	201.0	218.5	222.9	317.9	444.6	507.9	620.3	844.8
117.5°	239.1	223.2	207.3	223.2	239.1	243.0	323.8	431.5	485.4	586.7	789.3
120°	251.0	236.0	221.1	236.0	251.0	254.8	328.6	427.1	476.4	569.0	754.2
122.5°	264.7	249.7	234.6	249.7	264.7	268.5	335.5	424.8	469.5	552.8	719.6
125°	282.9	269.1	255.3	269.1	282.9	286.2	344.9	423.0	462.0	532.9	674.5
127.5°	299.9	286.0	272.2	286.0	299.9	303.4	354.2	421.9	455.7	516.6	638.2
130°	311.0	296.1	281.2	296.1	311.0	314.8	361.0	422.5	453.3	507.5	615.7
132.5°	320.4	305.4	290.5	305.4	320.4	324.1	366.5	423.0	451.2	499.6	596.6
135°	331.5	317.8	304.3	317.8	331.5	334.9	372.5	422.6	447.6	488.2	569.4
137.5°	345.4	331.9	318.4	331.9	345.4	348.7	381.5	425.2	447.0	481.3	549.9
140°	354.9	342.5	330.1	342.5	354.9	358.0	387.0	425.6	444.9	474.5	533.7
142.5°	362.0	350.6	339.2	350.6	362.0	364.9	391.6	427.1	444.9	470.9	523.0
145°	373.0	363.0	352.9	363.0	373.0	375.5	397.6	427.1	441.9	463.2	505.7
147.5°	386.2	376.5	366.8	376.5	386.2	388.7	406.4	430.0	441.9	458.6	492.2
150°	393.4	384.6	375.8	384.6	393.4	395.6	411.0	431.6	441.9	456.0	484.3
152.5°	398.5	391.8	385.1	391.8	398.5	400.1	414.1	432.6	441.9	454.0	478.1
155°	408.7	403.9	398.9	403.9	408.7	410.0	420.6	434.8	441.9	451.5	470.6
157.5°	418.8	414.0	409.1	414.0	418.8	420.0	427.2	437.0	441.9	449.3	464.2
160°	423.5	419.8	416.0	419.8	423.5	424.4	430.2	438.0	441.9	448.3	461.1
162.5°	428.6	425.8	423.0	425.8	428.6	429.3	433.4	439.1	441.9	447.3	458.0
165°	435.5	432.9	430.4	432.9	435.5	436.1	438.1	440.6	441.9	445.7	453.5
167.5°	439.7	438.5	437.3	438.5	439.7	440.0	441.7	443.8	444.9	447.4	452.5
170°	444.3	443.0	441.9	443.0	444.3	444.6	444.7	444.8	444.9	447.4	452.5
172.5°	444.8	444.6	444.3	444.6	444.8	444.9	444.9	444.9	444.9	446.9	450.9
175°	447.6	447.6	447.6	447.6	447.6	447.6	446.7	445.4	444.9	446.1	448.6
177.5°	447.6	447.6	447.6	447.6	447.6	447.6	446.9	445.9	445.4	446.4	448.5
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6



TEST NUMBER: P934798

CATALOG NUMBER: SQ4-FA-075U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	988.5	985.6	989.4	978.8	989.4	985.6	988.5	995.3	989.4	993.3	997.2
5°	867.4	862.5	847.0	834.4	847.0	862.5	867.4	887.7	897.4	914.8	938.1
7.5°	775.3	771.4	767.5	759.8	767.5	771.4	775.3	781.1	790.8	806.3	823.7
10°	754.9	755.9	761.7	760.8	761.7	755.9	754.9	753.0	750.1	753.0	763.7
12.5°	807.3	816.0	848.0	846.0	848.0	816.0	807.3	768.5	742.4	737.5	739.4
15°	867.4	870.3	877.0	878.0	877.0	870.3	867.4	851.8	773.4	739.4	728.8
17.5°	873.2	874.1	879.0	879.0	879.0	874.1	873.2	866.4	840.2	794.7	734.6
20°	868.3	870.3	879.9	881.9	879.9	870.3	868.3	859.6	845.1	828.6	783.0
22.5°	866.4	870.3	878.0	877.0	878.0	870.3	866.4	852.8	840.2	828.6	810.2
25°	856.7	856.7	857.7	858.6	857.7	856.7	856.7	846.0	820.8	817.9	807.3
27.5°	836.3	838.3	844.1	843.1	844.1	838.3	836.3	832.5	805.3	802.4	794.7
30°	817.9	816.0	811.1	807.3	811.1	816.0	817.9	812.1	785.0	777.2	779.2
32.5°	786.9	782.1	777.2	774.3	777.2	782.1	786.9	785.0	764.6	754.0	755.9
35°	750.1	751.1	750.1	747.2	750.1	751.1	750.1	752.0	739.4	729.8	728.8
37.5°	723.9	725.9	724.9	721.0	724.9	725.9	723.9	722.0	704.6	701.7	703.6
40°	696.8	697.8	696.8	693.9	696.8	697.8	696.8	692.9	668.7	669.7	676.5
42.5°	670.6	669.7	666.8	664.8	666.8	669.7	670.6	664.8	633.8	630.9	643.5
45°	640.6	641.6	635.8	632.9	635.8	641.6	640.6	636.7	604.8	597.0	605.7
47.5°	610.6	610.6	605.7	602.8	605.7	610.6	610.6	605.7	571.8	564.1	568.9
50°	578.6	577.6	570.8	569.9	570.8	577.6	578.6	575.7	539.8	533.0	533.0
52.5°	541.8	541.8	542.7	544.7	542.7	541.8	541.8	542.7	510.8	504.0	502.0
55°	509.8	510.8	517.5	519.5	517.5	510.8	509.8	509.8	480.7	473.9	470.1
57.5°	476.8	476.8	481.7	481.7	481.7	476.8	476.8	474.9	446.8	441.0	439.1
60°	439.1	441.0	444.9	443.9	444.9	441.0	439.1	437.1	412.9	409.0	402.2
62.5°	399.3	401.3	402.2	400.3	402.2	401.3	399.3	393.5	379.0	376.1	367.3
65°	357.7	359.6	360.6	358.6	360.6	359.6	357.7	354.8	344.0	339.2	331.4
67.5°	314.9	314.0	313.0	316.9	313.0	314.0	314.9	311.0	304.3	300.4	289.7
70°	271.3	271.3	270.4	272.3	270.4	271.3	271.3	268.4	264.5	261.6	251.9
72.5°	224.8	223.8	227.7	224.8	227.7	223.8	224.8	223.8	221.9	219.0	209.3
75°	179.3	181.2	179.3	182.2	179.3	181.2	179.3	180.2	179.3	177.3	170.5
77.5°	136.6	138.6	136.6	136.6	136.6	138.6	136.6	137.6	137.6	137.6	131.8
80°	96.9	95.9	95.9	95.0	95.9	95.9	96.9	96.9	97.9	95.9	94.0
82.5°	62.0	61.0	61.0	63.0	61.0	61.0	62.0	63.0	61.0	61.0	61.0
85°	33.9	34.9	32.9	32.9	32.9	34.9	33.9	32.0	33.9	33.9	32.9
87.5°	12.6	11.6	11.6	11.6	11.6	11.6	12.6	13.6	13.6	13.6	14.5
90°	11.4	11.4	11.4	11.4	11.4	11.4	11.4	15.2	20.3	22.9	19.7
92.5°	57.1	54.8	45.7	36.6	45.7	54.8	57.1	80.9	112.7	128.6	112.9
95°	193.7	186.8	159.4	131.9	159.4	186.8	193.7	254.4	335.3	375.8	317.3
97.5°	447.3	434.2	381.9	329.6	381.9	434.2	447.3	485.7	536.7	562.3	464.9
100°	628.1	612.5	550.2	487.8	550.2	612.5	628.1	625.3	621.5	619.7	511.6
102.5°	782.5	769.1	715.7	662.3	715.7	769.1	782.5	733.6	668.5	636.0	526.4
105°	962.7	955.5	926.8	898.2	926.8	955.5	962.7	853.2	707.2	634.1	528.0
107.5°	1056.4	1058.1	1065.1	1072.1	1065.1	1058.1	1056.4	903.6	699.9	598.1	504.5
110°	1080.4	1087.9	1117.8	1147.8	1117.8	1087.9	1080.4	909.6	681.9	568.0	483.6



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1065.1	1076.7	1122.6	1168.5	1122.6	1076.7	1065.1	890.3	657.3	540.7	465.5
115°	1013.2	1029.1	1092.8	1156.5	1092.8	1029.1	1013.2	844.8	620.3	507.9	444.6
117.5°	941.4	959.0	1029.7	1100.3	1029.7	959.0	941.4	789.3	586.7	485.4	431.5
120°	893.0	910.2	978.8	1047.4	978.8	910.2	893.0	754.2	569.0	476.4	427.1
122.5°	844.7	861.6	929.3	997.0	929.3	861.6	844.7	719.6	552.8	469.5	424.8
125°	780.7	796.3	858.6	920.9	858.6	796.3	780.7	674.5	532.9	462.0	423.0
127.5°	729.4	742.5	795.1	847.7	795.1	742.5	729.4	638.2	516.6	455.7	421.9
130°	696.9	709.0	757.7	806.2	757.7	709.0	696.9	615.7	507.5	453.3	422.5
132.5°	669.3	680.1	723.6	767.2	723.6	680.1	669.3	596.6	499.6	451.2	423.0
135°	630.2	639.6	677.1	714.6	677.1	639.6	630.2	569.4	488.2	447.6	422.6
137.5°	601.4	609.0	639.7	670.5	639.7	609.0	601.4	549.9	481.3	447.0	425.2
140°	578.2	585.4	614.2	642.8	614.2	585.4	578.2	533.7	474.5	444.9	425.6
142.5°	562.0	568.2	592.8	617.5	592.8	568.2	562.0	523.0	470.9	444.9	427.1
145°	537.7	542.3	561.1	579.8	561.1	542.3	537.7	505.7	463.2	441.9	427.1
147.5°	517.3	521.1	536.6	552.1	536.6	521.1	517.3	492.2	458.6	441.9	430.0
150°	505.5	508.6	521.2	533.8	521.2	508.6	505.5	484.3	456.0	441.9	431.6
152.5°	496.2	498.6	508.0	517.5	508.0	498.6	496.2	478.1	454.0	441.9	432.6
155°	485.1	486.6	492.9	499.2	492.9	486.6	485.1	470.6	451.5	441.9	434.8
157.5°	475.5	476.6	481.0	485.4	481.0	476.6	475.5	464.2	449.3	441.9	437.0
160°	470.7	471.3	473.8	476.4	473.8	471.3	470.7	461.1	448.3	441.9	438.0
162.5°	466.2	466.8	469.2	471.6	469.2	466.8	466.2	458.0	447.3	441.9	439.1
165°	459.3	460.0	462.5	465.0	462.5	460.0	459.3	453.5	445.7	441.9	440.6
167.5°	456.3	456.6	457.7	458.7	457.7	456.6	456.3	452.5	447.4	444.9	443.8
170°	456.3	456.3	456.3	456.3	456.3	456.3	456.3	452.5	447.4	444.9	444.8
172.5°	453.9	453.7	452.7	451.7	452.7	453.7	453.9	450.9	446.9	444.9	444.9
175°	450.6	450.6	450.6	450.6	450.6	450.6	450.6	448.6	446.1	444.9	445.4
177.5°	450.0	449.7	448.6	447.6	448.6	449.7	450.0	448.5	446.4	445.4	445.9
180°	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6	447.6



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1024.3	1024.3	1024.3	1024.3	1024.3
2.5°	1011.7	1016.6	1019.5	1023.4	1033.1
5°	973.0	991.4	997.2	1011.7	1029.2
7.5°	887.7	943.9	959.4	994.3	1021.4
10°	805.3	861.5	888.7	971.0	1011.7
12.5°	763.7	796.6	815.0	930.3	998.2
15°	737.5	760.8	774.3	876.1	982.7
17.5°	717.2	733.6	743.3	822.8	961.3
20°	704.6	712.3	721.0	784.0	937.1
22.5°	695.8	691.0	697.8	756.9	904.2
25°	690.0	671.6	679.4	735.6	865.4
27.5°	694.9	654.2	657.1	716.2	824.7
30°	695.8	632.9	633.8	695.8	779.2
32.5°	689.1	610.6	611.5	670.6	727.8
35°	672.6	584.4	583.4	641.6	658.0
37.5°	650.3	556.3	556.3	609.6	581.5
40°	623.2	528.2	531.1	567.9	513.7
42.5°	590.2	498.2	502.0	512.7	463.3
45°	554.4	469.1	472.0	433.2	424.5
47.5°	514.6	439.1	440.0	359.6	411.9
50°	467.2	408.0	404.2	308.1	411.0
52.5°	425.5	374.1	362.5	279.1	373.2
55°	384.8	338.2	313.0	256.8	346.0
57.5°	348.9	291.7	267.4	230.6	340.1
60°	315.9	246.1	227.7	202.5	312.0
62.5°	288.8	212.2	208.3	183.1	282.9
65°	259.7	189.0	188.0	166.7	240.3
67.5°	231.6	173.5	172.5	151.2	183.1
70°	201.6	157.0	155.0	134.7	135.7
72.5°	170.5	138.6	136.6	121.1	112.4
75°	139.5	117.2	116.3	105.6	91.1
77.5°	109.5	93.0	95.0	85.3	66.9
80°	78.5	67.8	69.8	61.0	50.4
82.5°	52.3	44.6	46.5	38.8	33.9
85°	29.1	25.2	26.2	20.3	15.5
87.5°	13.6	11.6	11.6	7.8	4.8
90°	13.3	8.4	7.8	5.4	3.0
92.5°	81.5	57.9	52.8	32.5	12.0
95°	200.6	113.0	103.7	66.3	28.9
97.5°	270.2	124.0	115.8	82.8	49.9
100°	295.4	133.3	125.9	95.9	66.1
102.5°	307.1	142.6	135.7	107.8	79.9
105°	315.7	156.5	150.6	126.9	103.3
107.5°	317.3	176.9	171.4	149.4	127.3
110°	314.9	188.4	183.4	163.5	143.6



TEST NUMBER: P934798

CATALOG NUMBER: SQ4-FA-075U-075D-B35-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	315.0	202.1	197.4	178.5	159.5
115°	317.9	222.9	218.5	201.0	183.5
117.5°	323.8	243.0	239.1	223.2	207.3
120°	328.6	254.8	251.0	236.0	221.1
122.5°	335.5	268.5	264.7	249.7	234.6
125°	344.9	286.2	282.9	269.1	255.3
127.5°	354.2	303.4	299.9	286.0	272.2
130°	361.0	314.8	311.0	296.1	281.2
132.5°	366.5	324.1	320.4	305.4	290.5
135°	372.5	334.9	331.5	317.8	304.3
137.5°	381.5	348.7	345.4	331.9	318.4
140°	387.0	358.0	354.9	342.5	330.1
142.5°	391.6	364.9	362.0	350.6	339.2
145°	397.6	375.5	373.0	363.0	352.9
147.5°	406.4	388.7	386.2	376.5	366.8
150°	411.0	395.6	393.4	384.6	375.8
152.5°	414.1	400.1	398.5	391.8	385.1
155°	420.6	410.0	408.7	403.9	398.9
157.5°	427.2	420.0	418.8	414.0	409.1
160°	430.2	424.4	423.5	419.8	416.0
162.5°	433.4	429.3	428.6	425.8	423.0
165°	438.1	436.1	435.5	432.9	430.4
167.5°	441.7	440.0	439.7	438.5	437.3
170°	444.7	444.6	444.3	443.0	441.9
172.5°	444.9	444.9	444.8	444.6	444.3
175°	446.7	447.6	447.6	447.6	447.6
177.5°	446.9	447.6	447.6	447.6	447.6
180°	447.6	447.6	447.6	447.6	447.6



TEST NUMBER: P934798  
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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	12.41	13.25	13.39	14.24	15.54	15.21	16.05	16.18	17.04	18.34
	3H	12.89	13.64	13.87	14.64	15.96	16.54	17.30	17.53	18.30	19.62
	4H	13.08	13.79	14.08	14.79	16.12	16.98	17.69	17.98	18.70	20.03
	6H	13.20	13.85	14.21	14.86	16.20	17.26	17.91	18.27	18.92	20.26
	8H	13.20	13.82	14.21	14.85	16.19	17.32	17.95	18.34	18.97	20.32
	12H	13.17	13.76	14.19	14.78	16.14	17.36	17.95	18.38	18.97	20.34
4H	2H	13.43	14.15	14.44	15.15	16.48	15.62	16.33	16.62	17.33	18.67
	3H	14.46	15.05	15.47	16.08	17.43	17.11	17.71	18.13	18.74	20.08
	4H	14.73	15.28	15.76	16.30	17.67	17.63	18.18	18.65	19.20	20.57
	6H	14.86	15.33	15.89	16.37	17.74	17.99	18.46	19.02	19.50	20.87
	8H	14.86	15.30	15.90	16.34	17.72	18.09	18.53	19.12	19.57	20.95
	12H	14.83	15.22	15.88	16.28	17.66	18.14	18.53	19.19	19.59	20.97
8H	4H	15.18	15.62	16.22	16.66	18.04	17.76	18.19	18.79	19.23	20.61
	6H	15.44	15.80	16.50	16.88	18.26	18.18	18.54	19.24	19.63	21.00
	8H	15.48	15.80	16.55	16.87	18.26	18.33	18.65	19.40	19.71	21.11
	12H	15.47	15.75	16.54	16.81	18.25	18.42	18.70	19.49	19.76	21.20
12H	4H	15.18	15.58	16.24	16.63	18.02	17.72	18.11	18.77	19.17	20.55
	6H	15.50	15.82	16.57	16.88	18.28	18.18	18.50	19.25	19.56	20.96
	8H	15.57	15.85	16.64	16.91	18.34	18.34	18.61	19.41	19.68	21.11