

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: P934634

Luminaire Tested: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-4000K

Issue Date: 12/17/2024

**Test Information**

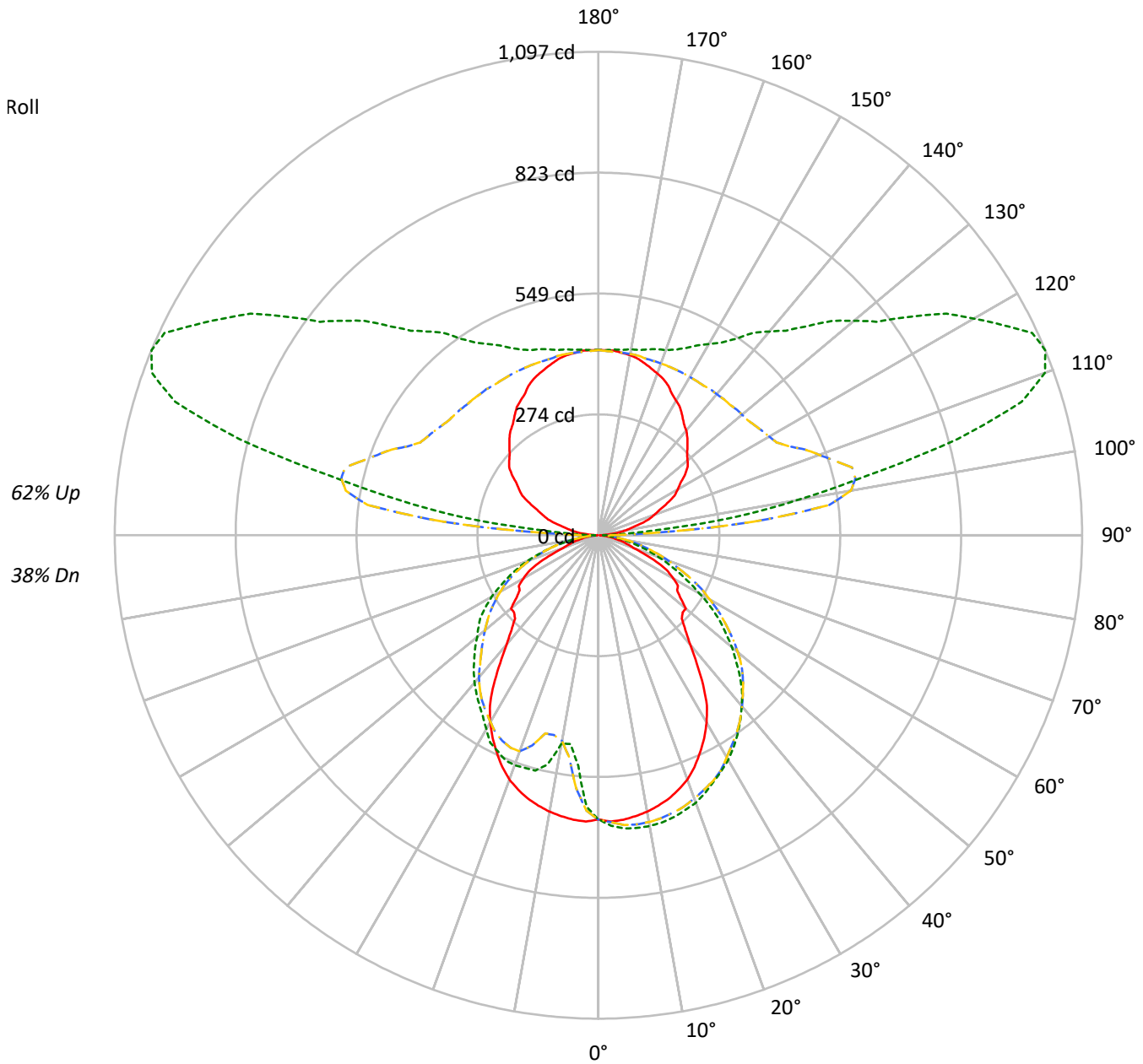
Test Method: LM-79-2019  
Report Number: P934634  
REPORT IS A COMBINATION OF REPORTS P933706 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4397.2 lumens  
Efficiency: N/A  
Efficacy: 127.8 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 34.4  
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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CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-4000K

### 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	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

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

	0°	90°	180°	270°
0°	5983	5983	5983	5983
5°	6021	6040	6021	4749
10°	5975	5950	5975	4254
15°	5903	5821	5903	4860
20°	5773	5668	5773	4871
25°	5514	5446	5514	4767
30°	5181	5260	5181	4541
35°	4611	5027	4611	4292
40°	3836	4752	3836	4104
45°	3421	4429	3421	3887
50°	3627	4044	3627	3670
55°	3402	3630	3402	3545
60°	3495	3083	3495	3246
65°	3153	2548	3153	2849
70°	2168	2031	2168	2389
75°	1879	1502	1879	1798
80°	1484	993	1484	1081
85°	803	526	803	446

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5253 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	58.2	1.3
10°-20°	165.3	3.8
20°-30°	255.5	5.8
30°-40°	305.0	6.9
40°-50°	306.8	7.0
50°-60°	266.9	6.1
60°-70°	189.3	4.3
70°-80°	100.1	2.3
80°-90°	26.6	0.6
90°-100°	204.8	4.7
100°-110°	538.4	12.2
110°-120°	558.3	12.7
120°-130°	447.8	10.2
130°-140°	351.4	8.0
140°-150°	269.7	6.1
150°-160°	194.2	4.4
160°-170°	118.8	2.7
170°-180°	40.2	0.9
0°-30°	478.9	10.9
0°-40°	783.9	17.8
0°-60°	1357.6	30.9
0°-90°	1673.5	38.1
90°-120°	1301.6	29.6
90°-150°	2370.5	53.9
90°-180°	2724.0	61.9
0°-180°	4397.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	645	645	645	645	645	
5°	648	668	648	525	648	61
15°	619	662	619	553	619	174
25°	545	617	545	540	545	250
35°	414	551	414	470	414	256
45°	267	454	267	398	267	214
55°	218	335	218	327	218	200
65°	151	202	151	226	151	145
75°	57	96	57	115	57	60
85°	10	24	10	21	10	13
90°	3	11	3	11	3	3
95°	27	124	27	124	27	30
105°	97	843	97	843	97	103
115°	172	1086	172	1086	172	170
125°	240	864	240	864	240	213
135°	286	671	286	671	286	221
145°	331	544	331	544	331	208
155°	374	469	374	469	374	172
165°	404	436	404	436	404	114
175°	420	423	420	423	420	40
180°	420	420	420	420	420	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	650.3	650.3	653.9	655.2	655.2	653.4	651.6	653.4	658.9	660.7	660.0
5°	647.8	652.8	659.5	660.7	661.9	661.3	660.0	661.3	667.4	668.6	669.2
7.5°	643.0	652.1	660.7	662.5	664.3	662.5	661.9	663.1	669.2	670.4	670.4
10°	636.9	649.7	659.5	660.7	662.5	660.7	660.7	663.1	669.2	670.4	671.0
12.5°	628.4	646.0	655.2	656.4	658.9	658.2	657.7	660.0	666.2	667.4	667.4
15°	618.6	639.3	647.8	649.1	653.4	652.1	652.1	654.6	661.3	663.1	662.5
17.5°	605.2	630.8	640.6	642.4	645.5	644.8	645.5	647.8	653.9	655.2	655.8
20°	589.9	619.2	630.8	632.7	635.7	635.7	635.7	638.7	644.8	647.3	647.3
22.5°	569.2	607.0	619.2	620.5	624.1	624.1	625.3	629.6	635.0	635.7	635.7
25°	544.8	593.5	603.9	607.6	611.3	613.1	614.9	617.4	619.2	618.6	619.2
27.5°	519.1	576.5	589.9	592.4	597.3	599.1	601.5	602.1	602.7	604.5	603.4
30°	490.5	552.7	572.8	575.3	583.2	584.4	582.0	583.2	586.3	587.4	588.7
32.5°	458.2	517.3	555.2	560.6	568.0	564.3	563.7	565.5	570.4	570.4	571.6
35°	414.2	489.8	538.7	543.6	549.1	544.8	547.2	547.8	550.9	552.7	552.1
37.5°	366.0	466.1	521.6	525.2	529.5	524.0	527.7	529.5	532.0	530.8	530.8
40°	323.3	428.9	501.5	503.9	507.6	503.3	506.9	508.2	509.4	508.2	507.6
42.5°	291.6	388.0	480.1	483.2	480.7	483.7	485.0	487.5	485.6	483.2	483.2
45°	267.2	377.0	456.9	460.5	456.9	461.8	463.6	463.6	458.2	456.9	456.3
47.5°	259.2	355.0	433.7	433.7	431.9	438.0	441.1	436.8	431.3	429.4	429.4
50°	258.7	330.7	402.1	399.6	408.2	415.4	412.4	408.2	403.9	397.1	397.1
52.5°	234.9	300.7	361.1	370.3	383.7	388.0	383.1	378.9	371.5	368.5	366.0
55°	217.8	269.6	323.9	342.2	356.3	361.8	352.6	348.3	337.4	335.6	334.3
57.5°	214.1	224.5	289.8	312.9	330.0	329.5	323.9	316.0	306.8	305.0	304.5
60°	196.5	162.3	253.2	280.6	298.3	296.5	291.6	284.3	275.7	274.5	273.3
62.5°	178.1	117.7	211.7	242.8	267.8	267.2	263.0	252.0	245.9	242.8	240.3
65°	151.3	98.8	150.7	201.9	238.0	239.1	230.0	222.0	215.3	211.7	211.0
67.5°	115.3	80.5	101.9	168.4	209.2	208.0	196.5	192.8	184.2	182.4	178.7
70°	85.4	53.7	70.8	136.6	181.2	178.1	169.0	164.7	156.8	152.5	150.1
72.5°	70.8	43.3	51.8	106.2	152.5	148.8	140.9	136.1	129.4	125.7	123.3
75°	57.3	45.8	39.7	78.7	123.8	121.4	114.1	109.2	103.7	98.8	99.4
77.5°	42.1	42.7	31.7	57.9	98.2	94.6	90.3	84.2	81.8	76.9	76.9
80°	31.7	33.6	23.8	39.7	70.8	70.8	67.1	62.9	58.6	56.1	56.1
82.5°	21.4	21.4	17.6	25.0	48.2	46.4	43.9	42.7	40.3	39.0	39.0
85°	9.7	12.2	11.0	15.3	26.2	27.5	27.5	26.2	25.7	24.4	25.0
87.5°	3.1	5.5	6.7	8.6	13.5	14.0	14.6	14.6	14.6	15.3	15.3
90°	2.8	5.1	7.4	7.9	12.5	18.5	21.5	19.1	14.3	10.7	10.7
92.5°	11.3	30.5	49.6	54.4	76.5	106.0	120.7	105.8	76.0	53.6	51.5
95°	27.1	62.2	97.3	106.1	188.3	297.9	352.8	314.7	238.8	181.8	175.4
97.5°	46.8	77.8	108.7	116.4	253.6	436.4	527.9	503.8	455.9	419.9	407.6
100°	62.0	90.1	118.2	125.2	277.3	480.3	581.7	583.4	587.0	589.6	575.0
102.5°	75.0	101.2	127.3	133.9	288.3	494.1	597.0	627.6	688.7	734.5	722.0
105°	97.0	119.2	141.4	146.9	296.4	495.7	595.3	663.9	800.9	903.7	897.0
107.5°	119.5	140.3	160.9	166.1	297.9	473.6	561.4	657.0	848.2	991.7	993.3
110°	134.8	153.5	172.2	176.8	295.6	454.0	533.2	640.1	853.9	1014.2	1021.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	149.7	167.6	185.3	189.8	295.7	437.0	507.6	617.0	835.8	999.9	1010.7
115°	172.3	188.7	205.1	209.2	298.5	417.3	476.8	582.3	793.0	951.1	966.0
117.5°	194.6	209.5	224.4	228.1	304.0	405.1	455.6	550.8	741.0	883.7	900.3
120°	207.6	221.6	235.6	239.1	308.5	401.0	447.2	534.1	708.0	838.3	854.4
122.5°	220.2	234.4	248.5	252.1	314.9	398.8	440.7	518.9	675.5	792.9	808.8
125°	239.7	252.6	265.5	268.7	323.7	397.1	433.7	500.2	633.2	732.9	747.5
127.5°	255.5	268.5	281.5	284.8	332.5	396.1	427.8	484.9	599.1	684.7	697.1
130°	264.0	278.0	292.0	295.5	338.8	396.6	425.5	476.4	578.0	654.2	665.6
132.5°	272.7	286.7	300.7	304.3	344.0	397.1	423.5	469.0	560.1	628.3	638.5
135°	285.6	298.4	311.2	314.4	349.7	396.7	420.2	458.3	534.5	591.6	600.5
137.5°	298.9	311.6	324.2	327.4	358.1	399.1	419.6	451.8	516.2	564.5	571.7
140°	309.9	321.6	333.2	336.1	363.3	399.5	417.6	445.4	501.0	542.8	549.5
142.5°	318.4	329.1	339.8	342.6	367.6	401.0	417.6	442.1	490.9	527.6	533.4
145°	331.3	340.8	350.1	352.5	373.2	401.0	414.8	434.8	474.7	504.8	509.1
147.5°	344.3	353.4	362.6	364.9	381.5	403.7	414.8	430.5	462.0	485.6	489.2
150°	352.8	361.0	369.3	371.4	385.9	405.2	414.8	428.1	454.6	474.6	477.5
152.5°	361.5	367.8	374.0	375.6	388.7	406.1	414.8	426.2	448.8	465.8	468.0
155°	374.5	379.1	383.7	384.9	394.9	408.2	414.8	423.8	441.8	455.4	456.8
157.5°	384.0	388.6	393.1	394.2	401.1	410.2	414.8	421.8	435.8	446.4	447.4
160°	390.5	394.1	397.5	398.4	403.9	411.2	414.8	420.8	432.9	441.9	442.4
162.5°	397.1	399.7	402.3	403.0	406.9	412.2	414.8	419.9	430.0	437.6	438.2
165°	404.1	406.4	408.8	409.4	411.2	413.6	414.8	418.4	425.7	431.2	431.8
167.5°	410.5	411.6	412.8	413.1	414.6	416.6	417.6	420.0	424.8	428.3	428.6
170°	414.8	415.9	417.1	417.3	417.4	417.5	417.6	420.0	424.8	428.3	428.3
172.5°	417.1	417.3	417.5	417.6	417.6	417.6	417.6	419.5	423.3	426.1	425.9
175°	420.2	420.2	420.2	420.2	419.3	418.2	417.6	418.8	421.2	423.0	423.0
177.5°	420.2	420.2	420.2	420.2	419.5	418.6	418.2	419.1	421.0	422.4	422.2
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	661.3	659.5	661.3	660.0	660.7	658.9	653.4	651.6	653.4	655.2	655.2
5°	669.2	668.0	669.2	669.2	668.6	667.4	661.3	660.0	661.3	661.9	660.7
7.5°	671.7	669.9	671.7	670.4	670.4	669.2	663.1	661.9	662.5	664.3	662.5
10°	671.7	669.9	671.7	671.0	670.4	669.2	663.1	660.7	660.7	662.5	660.7
12.5°	668.6	667.4	668.6	667.4	667.4	666.2	660.0	657.7	658.2	658.9	656.4
15°	663.8	661.9	663.8	662.5	663.1	661.3	654.6	652.1	652.1	653.4	649.1
17.5°	656.4	653.9	656.4	655.8	655.2	653.9	647.8	645.5	644.8	645.5	642.4
20°	647.8	646.0	647.8	647.3	647.3	644.8	638.7	635.7	635.7	635.7	632.7
22.5°	634.5	632.7	634.5	635.7	635.7	635.0	629.6	625.3	624.1	624.1	620.5
25°	619.2	617.4	619.2	619.2	618.6	619.2	617.4	614.9	613.1	611.3	607.6
27.5°	604.5	603.4	604.5	603.4	604.5	602.7	602.1	601.5	599.1	597.3	592.4
30°	589.9	588.7	589.9	588.7	587.4	586.3	583.2	582.0	584.4	583.2	575.3
32.5°	571.6	570.4	571.6	571.6	570.4	570.4	565.5	563.7	564.3	568.0	560.6
35°	552.7	550.9	552.7	552.1	552.7	550.9	547.8	547.2	544.8	549.1	543.6
37.5°	530.8	529.0	530.8	530.8	530.8	532.0	529.5	527.7	524.0	529.5	525.2
40°	508.2	505.8	508.2	507.6	508.2	509.4	508.2	506.9	503.3	507.6	503.9
42.5°	482.6	481.9	482.6	483.2	483.2	485.6	487.5	485.0	483.7	480.7	483.2
45°	455.1	453.9	455.1	456.3	456.9	458.2	463.6	463.6	461.8	456.9	460.5
47.5°	425.8	422.8	425.8	429.4	429.4	431.3	436.8	441.1	438.0	431.9	433.7
50°	394.7	395.3	394.7	397.1	397.1	403.9	408.2	412.4	415.4	408.2	399.6
52.5°	364.2	363.6	364.2	366.0	368.5	371.5	378.9	383.1	388.0	383.7	370.3
55°	333.7	334.9	333.7	334.3	335.6	337.4	348.3	352.6	361.8	356.3	342.2
57.5°	303.2	301.4	303.2	304.5	305.0	306.8	316.0	323.9	329.5	330.0	312.9
60°	267.8	265.3	267.8	273.3	274.5	275.7	284.3	291.6	296.5	298.3	280.6
62.5°	236.7	232.4	236.7	240.3	242.8	245.9	252.0	263.0	267.2	267.8	242.8
65°	203.8	201.9	203.8	211.0	211.7	215.3	222.0	230.0	239.1	238.0	201.9
67.5°	173.8	173.8	173.8	178.7	182.4	184.2	192.8	196.5	208.0	209.2	168.4
70°	146.5	145.8	146.5	150.1	152.5	156.8	164.7	169.0	178.1	181.2	136.6
72.5°	120.2	119.5	120.2	123.3	125.7	129.4	136.1	140.9	148.8	152.5	106.2
75°	97.0	95.8	97.0	99.4	98.8	103.7	109.2	114.1	121.4	123.8	78.7
77.5°	74.4	74.4	74.4	76.9	76.9	81.8	84.2	90.3	94.6	98.2	57.9
80°	55.5	54.9	55.5	56.1	56.1	58.6	62.9	67.1	70.8	70.8	39.7
82.5°	39.0	37.8	39.0	39.0	39.0	40.3	42.7	43.9	46.4	48.2	25.0
85°	24.4	24.4	24.4	25.0	24.4	25.7	26.2	27.5	27.5	26.2	15.3
87.5°	15.8	15.3	15.8	15.3	15.3	14.6	14.6	14.6	14.0	13.5	8.6
90°	10.7	10.7	10.7	10.7	10.7	14.3	19.1	21.5	18.5	12.5	7.9
92.5°	42.9	34.4	42.9	51.5	53.6	76.0	105.8	120.7	106.0	76.5	54.4
95°	149.6	123.8	149.6	175.4	181.8	238.8	314.7	352.8	297.9	188.3	106.1
97.5°	358.5	309.4	358.5	407.6	419.9	455.9	503.8	527.9	436.4	253.6	116.4
100°	516.5	457.9	516.5	575.0	589.6	587.0	583.4	581.7	480.3	277.3	125.2
102.5°	671.9	621.7	671.9	722.0	734.5	688.7	627.6	597.0	494.1	288.3	133.9
105°	870.1	843.1	870.1	897.0	903.7	800.9	663.9	595.3	495.7	296.4	146.9
107.5°	999.9	1006.4	999.9	993.3	991.7	848.2	657.0	561.4	473.6	297.9	166.1
110°	1049.4	1077.5	1049.4	1021.2	1014.2	853.9	640.1	533.2	454.0	295.6	176.8





TEST NUMBER: P934634

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1053.8	1096.9	1053.8	1010.7	999.9	835.8	617.0	507.6	437.0	295.7	189.8
115°	1025.9	1085.7	1025.9	966.0	951.1	793.0	582.3	476.8	417.3	298.5	209.2
117.5°	966.6	1032.9	966.6	900.3	883.7	741.0	550.8	455.6	405.1	304.0	228.1
120°	918.8	983.2	918.8	854.4	838.3	708.0	534.1	447.2	401.0	308.5	239.1
122.5°	872.3	935.9	872.3	808.8	792.9	675.5	518.9	440.7	398.8	314.9	252.1
125°	806.0	864.5	806.0	747.5	732.9	633.2	500.2	433.7	397.1	323.7	268.7
127.5°	746.4	795.8	746.4	697.1	684.7	599.1	484.9	427.8	396.1	332.5	284.8
130°	711.2	756.8	711.2	665.6	654.2	578.0	476.4	425.5	396.6	338.8	295.5
132.5°	679.3	720.2	679.3	638.5	628.3	560.1	469.0	423.5	397.1	344.0	304.3
135°	635.7	670.9	635.7	600.5	591.6	534.5	458.3	420.2	396.7	349.7	314.4
137.5°	600.5	629.4	600.5	571.7	564.5	516.2	451.8	419.6	399.1	358.1	327.4
140°	576.5	603.5	576.5	549.5	542.8	501.0	445.4	417.6	399.5	363.3	336.1
142.5°	556.5	579.7	556.5	533.4	527.6	490.9	442.1	417.6	401.0	367.6	342.6
145°	526.7	544.2	526.7	509.1	504.8	474.7	434.8	414.8	401.0	373.2	352.5
147.5°	503.8	518.3	503.8	489.2	485.6	462.0	430.5	414.8	403.7	381.5	364.9
150°	489.3	501.1	489.3	477.5	474.6	454.6	428.1	414.8	405.2	385.9	371.4
152.5°	476.9	485.8	476.9	468.0	465.8	448.8	426.2	414.8	406.1	388.7	375.6
155°	462.7	468.6	462.7	456.8	455.4	441.8	423.8	414.8	408.2	394.9	384.9
157.5°	451.5	455.6	451.5	447.4	446.4	435.8	421.8	414.8	410.2	401.1	394.2
160°	444.8	447.2	444.8	442.4	441.9	432.9	420.8	414.8	411.2	403.9	398.4
162.5°	440.4	442.7	440.4	438.2	437.6	430.0	419.9	414.8	412.2	406.9	403.0
165°	434.2	436.5	434.2	431.8	431.2	425.7	418.4	414.8	413.6	411.2	409.4
167.5°	429.6	430.6	429.6	428.6	428.3	424.8	420.0	417.6	416.6	414.6	413.1
170°	428.3	428.3	428.3	428.3	428.3	424.8	420.0	417.6	417.5	417.4	417.3
172.5°	425.0	424.1	425.0	425.9	426.1	423.3	419.5	417.6	417.6	417.6	417.6
175°	423.0	423.0	423.0	423.0	423.0	421.2	418.8	417.6	418.2	419.3	420.2
177.5°	421.2	420.2	421.2	422.2	422.4	421.0	419.1	418.2	418.6	419.5	420.2
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



TEST NUMBER: P934634

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	653.9	650.3	650.3	644.2	641.7	639.9	636.9	627.7	625.3	622.8	626.6
5°	659.5	652.8	647.8	636.9	627.7	624.1	612.5	590.5	575.9	564.9	558.8
7.5°	660.7	652.1	643.0	625.9	603.9	594.2	558.8	518.6	507.6	497.8	491.7
10°	659.5	649.7	636.9	611.3	559.4	542.3	506.9	480.7	474.0	472.2	474.0
12.5°	655.2	646.0	628.4	585.6	513.0	501.5	480.7	465.5	464.3	467.3	483.7
15°	647.8	639.3	618.6	551.5	487.5	478.9	464.3	458.7	465.5	486.8	536.2
17.5°	640.6	630.8	605.2	517.9	467.9	461.8	451.5	462.5	500.2	529.0	545.4
20°	630.8	619.2	589.9	493.6	453.9	448.4	443.5	492.9	521.6	532.0	541.1
22.5°	619.2	607.0	569.2	476.5	439.3	435.0	438.0	510.0	521.6	529.0	536.9
25°	603.9	593.5	544.8	463.0	427.6	422.8	434.4	508.2	514.9	516.7	532.6
27.5°	589.9	576.5	519.1	450.8	413.6	411.8	437.4	500.2	505.1	506.9	524.0
30°	572.8	552.7	490.5	438.0	399.0	398.3	438.0	490.5	489.3	494.1	511.2
32.5°	555.2	517.3	458.2	422.2	385.0	384.3	433.7	475.8	474.6	481.3	494.1
35°	538.7	489.8	414.2	403.9	367.2	367.9	423.3	458.7	459.4	465.5	473.4
37.5°	521.6	466.1	366.0	383.7	350.2	350.2	409.3	442.9	441.7	443.5	454.5
40°	501.5	428.9	323.3	357.5	334.3	332.5	392.2	425.8	421.5	421.0	436.2
42.5°	480.1	388.0	291.6	322.7	316.0	313.6	371.5	405.1	397.1	399.0	418.5
45°	456.9	377.0	267.2	272.7	297.1	295.3	348.9	381.3	375.8	380.7	400.8
47.5°	433.7	355.0	259.2	226.3	277.0	276.3	323.9	358.1	355.0	359.9	381.3
50°	402.1	330.7	258.7	194.0	254.4	256.8	294.1	335.6	335.6	339.8	362.4
52.5°	361.1	300.7	234.9	175.7	228.1	235.5	267.8	316.0	317.2	321.5	341.7
55°	323.9	269.6	217.8	161.6	197.0	212.9	242.1	295.9	298.3	302.5	320.9
57.5°	289.8	224.5	214.1	145.2	168.4	183.7	219.6	276.3	277.5	281.3	298.9
60°	253.2	162.3	196.5	127.5	143.4	154.9	198.8	253.2	257.4	259.9	275.2
62.5°	211.7	117.7	178.1	115.3	131.2	133.6	181.8	231.2	236.7	238.5	247.7
65°	150.7	98.8	151.3	105.0	118.3	119.0	163.5	208.7	213.5	216.6	223.3
67.5°	101.9	80.5	115.3	95.1	108.6	109.2	145.8	182.4	189.1	191.6	195.8
70°	70.8	53.7	85.4	84.8	97.6	98.8	126.9	158.6	164.7	166.6	169.0
72.5°	51.8	43.3	70.8	76.2	86.1	87.2	107.3	131.8	137.9	139.7	140.9
75°	39.7	45.8	57.3	66.5	73.2	73.8	87.9	107.3	111.6	112.9	113.4
77.5°	31.7	42.7	42.1	53.7	59.8	58.6	69.0	83.0	86.6	86.6	86.6
80°	23.8	33.6	31.7	38.5	43.9	42.7	49.4	59.2	60.4	61.6	61.0
82.5°	17.6	21.4	21.4	24.4	29.3	28.1	32.9	38.5	38.5	38.5	39.7
85°	11.0	12.2	9.7	12.8	16.5	15.8	18.3	20.7	21.4	21.4	20.1
87.5°	6.7	5.5	3.1	4.9	7.3	7.3	8.6	9.2	8.6	8.6	8.6
90°	7.4	5.1	2.8	5.1	7.4	7.9	12.5	18.5	21.5	19.1	14.3
92.5°	49.6	30.5	11.3	30.5	49.6	54.4	76.5	106.0	120.7	105.8	76.0
95°	97.3	62.2	27.1	62.2	97.3	106.1	188.3	297.9	352.8	314.7	238.8
97.5°	108.7	77.8	46.8	77.8	108.7	116.4	253.6	436.4	527.9	503.8	455.9
100°	118.2	90.1	62.0	90.1	118.2	125.2	277.3	480.3	581.7	583.4	587.0
102.5°	127.3	101.2	75.0	101.2	127.3	133.9	288.3	494.1	597.0	627.6	688.7
105°	141.4	119.2	97.0	119.2	141.4	146.9	296.4	495.7	595.3	663.9	800.9
107.5°	160.9	140.3	119.5	140.3	160.9	166.1	297.9	473.6	561.4	657.0	848.2
110°	172.2	153.5	134.8	153.5	172.2	176.8	295.6	454.0	533.2	640.1	853.9



TEST NUMBER: P934634

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	185.3	167.6	149.7	167.6	185.3	189.8	295.7	437.0	507.6	617.0	835.8
115°	205.1	188.7	172.3	188.7	205.1	209.2	298.5	417.3	476.8	582.3	793.0
117.5°	224.4	209.5	194.6	209.5	224.4	228.1	304.0	405.1	455.6	550.8	741.0
120°	235.6	221.6	207.6	221.6	235.6	239.1	308.5	401.0	447.2	534.1	708.0
122.5°	248.5	234.4	220.2	234.4	248.5	252.1	314.9	398.8	440.7	518.9	675.5
125°	265.5	252.6	239.7	252.6	265.5	268.7	323.7	397.1	433.7	500.2	633.2
127.5°	281.5	268.5	255.5	268.5	281.5	284.8	332.5	396.1	427.8	484.9	599.1
130°	292.0	278.0	264.0	278.0	292.0	295.5	338.8	396.6	425.5	476.4	578.0
132.5°	300.7	286.7	272.7	286.7	300.7	304.3	344.0	397.1	423.5	469.0	560.1
135°	311.2	298.4	285.6	298.4	311.2	314.4	349.7	396.7	420.2	458.3	534.5
137.5°	324.2	311.6	298.9	311.6	324.2	327.4	358.1	399.1	419.6	451.8	516.2
140°	333.2	321.6	309.9	321.6	333.2	336.1	363.3	399.5	417.6	445.4	501.0
142.5°	339.8	329.1	318.4	329.1	339.8	342.6	367.6	401.0	417.6	442.1	490.9
145°	350.1	340.8	331.3	340.8	350.1	352.5	373.2	401.0	414.8	434.8	474.7
147.5°	362.6	353.4	344.3	353.4	362.6	364.9	381.5	403.7	414.8	430.5	462.0
150°	369.3	361.0	352.8	361.0	369.3	371.4	385.9	405.2	414.8	428.1	454.6
152.5°	374.0	367.8	361.5	367.8	374.0	375.6	388.7	406.1	414.8	426.2	448.8
155°	383.7	379.1	374.5	379.1	383.7	384.9	394.9	408.2	414.8	423.8	441.8
157.5°	393.1	388.6	384.0	388.6	393.1	394.2	401.1	410.2	414.8	421.8	435.8
160°	397.5	394.1	390.5	394.1	397.5	398.4	403.9	411.2	414.8	420.8	432.9
162.5°	402.3	399.7	397.1	399.7	402.3	403.0	406.9	412.2	414.8	419.9	430.0
165°	408.8	406.4	404.1	406.4	408.8	409.4	411.2	413.6	414.8	418.4	425.7
167.5°	412.8	411.6	410.5	411.6	412.8	413.1	414.6	416.6	417.6	420.0	424.8
170°	417.1	415.9	414.8	415.9	417.1	417.3	417.4	417.5	417.6	420.0	424.8
172.5°	417.5	417.3	417.1	417.3	417.5	417.6	417.6	417.6	417.6	419.5	423.3
175°	420.2	420.2	420.2	420.2	420.2	420.2	419.3	418.2	417.6	418.8	421.2
177.5°	420.2	420.2	420.2	420.2	420.2	420.2	419.5	418.6	418.2	419.1	421.0
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



TEST NUMBER: P934634

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8	644.8
2.5°	622.3	620.5	622.8	616.2	622.8	620.5	622.3	626.6	622.8	625.3	627.7
5°	546.0	543.0	533.2	525.2	533.2	543.0	546.0	558.8	564.9	575.9	590.5
7.5°	488.0	485.6	483.2	478.3	483.2	485.6	488.0	491.7	497.8	507.6	518.6
10°	475.2	475.8	479.5	478.9	479.5	475.8	475.2	474.0	472.2	474.0	480.7
12.5°	508.2	513.7	533.8	532.6	533.8	513.7	508.2	483.7	467.3	464.3	465.5
15°	546.0	547.8	552.1	552.7	552.1	547.8	546.0	536.2	486.8	465.5	458.7
17.5°	549.7	550.2	553.3	553.3	553.3	550.2	549.7	545.4	529.0	500.2	462.5
20°	546.6	547.8	554.0	555.2	554.0	547.8	546.6	541.1	532.0	521.6	492.9
22.5°	545.4	547.8	552.7	552.1	552.7	547.8	545.4	536.9	529.0	521.6	510.0
25°	539.3	539.3	539.9	540.5	539.9	539.3	539.3	532.6	516.7	514.9	508.2
27.5°	526.5	527.7	531.3	530.8	531.3	527.7	526.5	524.0	506.9	505.1	500.2
30°	514.9	513.7	510.6	508.2	510.6	513.7	514.9	511.2	494.1	489.3	490.5
32.5°	495.4	492.3	489.3	487.5	489.3	492.3	495.4	494.1	481.3	474.6	475.8
35°	472.2	472.8	472.2	470.4	472.2	472.8	472.2	473.4	465.5	459.4	458.7
37.5°	455.7	456.9	456.3	453.9	456.3	456.9	455.7	454.5	443.5	441.7	442.9
40°	438.6	439.3	438.6	436.8	438.6	439.3	438.6	436.2	421.0	421.5	425.8
42.5°	422.2	421.5	419.7	418.5	419.7	421.5	422.2	418.5	399.0	397.1	405.1
45°	403.2	403.9	400.1	398.3	400.1	403.9	403.2	400.8	380.7	375.8	381.3
47.5°	384.3	384.3	381.3	379.4	381.3	384.3	384.3	381.3	359.9	355.0	358.1
50°	364.2	363.6	359.3	358.7	359.3	363.6	364.2	362.4	339.8	335.6	335.6
52.5°	341.0	341.0	341.7	342.8	341.7	341.0	341.0	341.7	321.5	317.2	316.0
55°	320.9	321.5	325.7	327.0	325.7	321.5	320.9	320.9	302.5	298.3	295.9
57.5°	300.2	300.2	303.2	303.2	303.2	300.2	300.2	298.9	281.3	277.5	276.3
60°	276.3	277.5	280.0	279.4	280.0	277.5	276.3	275.2	259.9	257.4	253.2
62.5°	251.3	252.6	253.2	252.0	253.2	252.6	251.3	247.7	238.5	236.7	231.2
65°	225.1	226.3	227.0	225.7	227.0	226.3	225.1	223.3	216.6	213.5	208.7
67.5°	198.3	197.7	197.0	199.5	197.0	197.7	198.3	195.8	191.6	189.1	182.4
70°	170.8	170.8	170.2	171.5	170.2	170.8	170.8	169.0	166.6	164.7	158.6
72.5°	141.5	140.9	143.4	141.5	143.4	140.9	141.5	140.9	139.7	137.9	131.8
75°	112.9	114.1	112.9	114.7	112.9	114.1	112.9	113.4	112.9	111.6	107.3
77.5°	86.1	87.2	86.1	86.1	86.1	87.2	86.1	86.6	86.6	86.6	83.0
80°	61.0	60.4	60.4	59.8	60.4	60.4	61.0	61.0	61.6	60.4	59.2
82.5°	39.0	38.5	38.5	39.7	38.5	38.5	39.0	39.7	38.5	38.5	38.5
85°	21.4	21.9	20.7	20.7	20.7	21.9	21.4	20.1	21.4	21.4	20.7
87.5°	7.9	7.3	7.3	7.3	7.3	7.3	7.9	8.6	8.6	8.6	9.2
90°	10.7	10.7	10.7	10.7	10.7	10.7	10.7	14.3	19.1	21.5	18.5
92.5°	53.6	51.5	42.9	34.4	42.9	51.5	53.6	76.0	105.8	120.7	106.0
95°	181.8	175.4	149.6	123.8	149.6	175.4	181.8	238.8	314.7	352.8	297.9
97.5°	419.9	407.6	358.5	309.4	358.5	407.6	419.9	455.9	503.8	527.9	436.4
100°	589.6	575.0	516.5	457.9	516.5	575.0	589.6	587.0	583.4	581.7	480.3
102.5°	734.5	722.0	671.9	621.7	671.9	722.0	734.5	688.7	627.6	597.0	494.1
105°	903.7	897.0	870.1	843.1	870.1	897.0	903.7	800.9	663.9	595.3	495.7
107.5°	991.7	993.3	999.9	1006.4	999.9	993.3	991.7	848.2	657.0	561.4	473.6
110°	1014.2	1021.2	1049.4	1077.5	1049.4	1021.2	1014.2	853.9	640.1	533.2	454.0



TEST NUMBER: P934634

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	999.9	1010.7	1053.8	1096.9	1053.8	1010.7	999.9	835.8	617.0	507.6	437.0
115°	951.1	966.0	1025.9	1085.7	1025.9	966.0	951.1	793.0	582.3	476.8	417.3
117.5°	883.7	900.3	966.6	1032.9	966.6	900.3	883.7	741.0	550.8	455.6	405.1
120°	838.3	854.4	918.8	983.2	918.8	854.4	838.3	708.0	534.1	447.2	401.0
122.5°	792.9	808.8	872.3	935.9	872.3	808.8	792.9	675.5	518.9	440.7	398.8
125°	732.9	747.5	806.0	864.5	806.0	747.5	732.9	633.2	500.2	433.7	397.1
127.5°	684.7	697.1	746.4	795.8	746.4	697.1	684.7	599.1	484.9	427.8	396.1
130°	654.2	665.6	711.2	756.8	711.2	665.6	654.2	578.0	476.4	425.5	396.6
132.5°	628.3	638.5	679.3	720.2	679.3	638.5	628.3	560.1	469.0	423.5	397.1
135°	591.6	600.5	635.7	670.9	635.7	600.5	591.6	534.5	458.3	420.2	396.7
137.5°	564.5	571.7	600.5	629.4	600.5	571.7	564.5	516.2	451.8	419.6	399.1
140°	542.8	549.5	576.5	603.5	576.5	549.5	542.8	501.0	445.4	417.6	399.5
142.5°	527.6	533.4	556.5	579.7	556.5	533.4	527.6	490.9	442.1	417.6	401.0
145°	504.8	509.1	526.7	544.2	526.7	509.1	504.8	474.7	434.8	414.8	401.0
147.5°	485.6	489.2	503.8	518.3	503.8	489.2	485.6	462.0	430.5	414.8	403.7
150°	474.6	477.5	489.3	501.1	489.3	477.5	474.6	454.6	428.1	414.8	405.2
152.5°	465.8	468.0	476.9	485.8	476.9	468.0	465.8	448.8	426.2	414.8	406.1
155°	455.4	456.8	462.7	468.6	462.7	456.8	455.4	441.8	423.8	414.8	408.2
157.5°	446.4	447.4	451.5	455.6	451.5	447.4	446.4	435.8	421.8	414.8	410.2
160°	441.9	442.4	444.8	447.2	444.8	442.4	441.9	432.9	420.8	414.8	411.2
162.5°	437.6	438.2	440.4	442.7	440.4	438.2	437.6	430.0	419.9	414.8	412.2
165°	431.2	431.8	434.2	436.5	434.2	431.8	431.2	425.7	418.4	414.8	413.6
167.5°	428.3	428.6	429.6	430.6	429.6	428.6	428.3	424.8	420.0	417.6	416.6
170°	428.3	428.3	428.3	428.3	428.3	428.3	428.3	424.8	420.0	417.6	417.5
172.5°	426.1	425.9	425.0	424.1	425.0	425.9	426.1	423.3	419.5	417.6	417.6
175°	423.0	423.0	423.0	423.0	423.0	423.0	423.0	421.2	418.8	417.6	418.2
177.5°	422.4	422.2	421.2	420.2	421.2	422.2	422.4	421.0	419.1	418.2	418.6
180°	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2	420.2



TEST NUMBER: P934634

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	644.8	644.8	644.8	644.8	644.8
2.5°	636.9	639.9	641.7	644.2	650.3
5°	612.5	624.1	627.7	636.9	647.8
7.5°	558.8	594.2	603.9	625.9	643.0
10°	506.9	542.3	559.4	611.3	636.9
12.5°	480.7	501.5	513.0	585.6	628.4
15°	464.3	478.9	487.5	551.5	618.6
17.5°	451.5	461.8	467.9	517.9	605.2
20°	443.5	448.4	453.9	493.6	589.9
22.5°	438.0	435.0	439.3	476.5	569.2
25°	434.4	422.8	427.6	463.0	544.8
27.5°	437.4	411.8	413.6	450.8	519.1
30°	438.0	398.3	399.0	438.0	490.5
32.5°	433.7	384.3	385.0	422.2	458.2
35°	423.3	367.9	367.2	403.9	414.2
37.5°	409.3	350.2	350.2	383.7	366.0
40°	392.2	332.5	334.3	357.5	323.3
42.5°	371.5	313.6	316.0	322.7	291.6
45°	348.9	295.3	297.1	272.7	267.2
47.5°	323.9	276.3	277.0	226.3	259.2
50°	294.1	256.8	254.4	194.0	258.7
52.5°	267.8	235.5	228.1	175.7	234.9
55°	242.1	212.9	197.0	161.6	217.8
57.5°	219.6	183.7	168.4	145.2	214.1
60°	198.8	154.9	143.4	127.5	196.5
62.5°	181.8	133.6	131.2	115.3	178.1
65°	163.5	119.0	118.3	105.0	151.3
67.5°	145.8	109.2	108.6	95.1	115.3
70°	126.9	98.8	97.6	84.8	85.4
72.5°	107.3	87.2	86.1	76.2	70.8
75°	87.9	73.8	73.2	66.5	57.3
77.5°	69.0	58.6	59.8	53.7	42.1
80°	49.4	42.7	43.9	38.5	31.7
82.5°	32.9	28.1	29.3	24.4	21.4
85°	18.3	15.8	16.5	12.8	9.7
87.5°	8.6	7.3	7.3	4.9	3.1
90°	12.5	7.9	7.4	5.1	2.8
92.5°	76.5	54.4	49.6	30.5	11.3
95°	188.3	106.1	97.3	62.2	27.1
97.5°	253.6	116.4	108.7	77.8	46.8
100°	277.3	125.2	118.2	90.1	62.0
102.5°	288.3	133.9	127.3	101.2	75.0
105°	296.4	146.9	141.4	119.2	97.0
107.5°	297.9	166.1	160.9	140.3	119.5
110°	295.6	176.8	172.2	153.5	134.8



TEST NUMBER: P934634

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	295.7	189.8	185.3	167.6	149.7
115°	298.5	209.2	205.1	188.7	172.3
117.5°	304.0	228.1	224.4	209.5	194.6
120°	308.5	239.1	235.6	221.6	207.6
122.5°	314.9	252.1	248.5	234.4	220.2
125°	323.7	268.7	265.5	252.6	239.7
127.5°	332.5	284.8	281.5	268.5	255.5
130°	338.8	295.5	292.0	278.0	264.0
132.5°	344.0	304.3	300.7	286.7	272.7
135°	349.7	314.4	311.2	298.4	285.6
137.5°	358.1	327.4	324.2	311.6	298.9
140°	363.3	336.1	333.2	321.6	309.9
142.5°	367.6	342.6	339.8	329.1	318.4
145°	373.2	352.5	350.1	340.8	331.3
147.5°	381.5	364.9	362.6	353.4	344.3
150°	385.9	371.4	369.3	361.0	352.8
152.5°	388.7	375.6	374.0	367.8	361.5
155°	394.9	384.9	383.7	379.1	374.5
157.5°	401.1	394.2	393.1	388.6	384.0
160°	403.9	398.4	397.5	394.1	390.5
162.5°	406.9	403.0	402.3	399.7	397.1
165°	411.2	409.4	408.8	406.4	404.1
167.5°	414.6	413.1	412.8	411.6	410.5
170°	417.4	417.3	417.1	415.9	414.8
172.5°	417.6	417.6	417.5	417.3	417.1
175°	419.3	420.2	420.2	420.2	420.2
177.5°	419.5	420.2	420.2	420.2	420.2
180°	420.2	420.2	420.2	420.2	420.2



TEST NUMBER: P934634

CATALOG NUMBER: SQ4-FA-075U-050D-92765-1D-UNV-STD-W-4-4000K

**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	9.79	10.56	10.85	11.61	13.05	12.59	13.35	13.64	14.41	15.84
	3H	10.26	10.95	11.33	12.01	13.46	13.92	14.60	14.98	15.67	17.12
	4H	10.45	11.10	11.52	12.17	13.62	14.35	15.00	15.43	16.07	17.53
	6H	10.56	11.16	11.65	12.23	13.70	14.62	15.22	15.71	16.29	17.76
	8H	10.56	11.13	11.65	12.22	13.68	14.69	15.26	15.78	16.35	17.81
	12H	10.53	11.07	11.62	12.15	13.64	14.72	15.26	15.81	16.34	17.83
4H	2H	10.81	11.45	11.89	12.52	13.98	12.99	13.64	14.07	14.71	16.16
	3H	11.82	12.36	12.91	13.46	14.93	14.48	15.02	15.57	16.11	17.58
	4H	12.10	12.59	13.19	13.68	15.17	14.99	15.49	16.09	16.57	18.07
	6H	12.22	12.64	13.32	13.75	15.23	15.35	15.77	16.45	16.88	18.36
	8H	12.22	12.62	13.32	13.72	15.22	15.44	15.84	16.55	16.94	18.44
	12H	12.18	12.54	13.30	13.65	15.16	15.49	15.85	16.61	16.96	18.47
8H	4H	12.54	12.93	13.64	14.03	15.53	15.11	15.51	16.21	16.61	18.11
	6H	12.79	13.12	13.92	14.26	15.76	15.54	15.86	16.66	17.01	18.50
	8H	12.84	13.12	13.97	14.25	15.76	15.68	15.97	16.81	17.09	18.61
	12H	12.81	13.07	13.95	14.19	15.74	15.77	16.02	16.90	17.14	18.70
12H	4H	12.54	12.90	13.66	14.01	15.51	15.07	15.43	16.19	16.54	18.05
	6H	12.85	13.14	13.98	14.26	15.78	15.53	15.82	16.66	16.94	18.46
	8H	12.91	13.17	14.05	14.29	15.84	15.68	15.94	16.82	17.06	18.61