

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: P934218

Luminaire Tested: SQ4-FA-050U-050D-840-1D-UNV-STD-W-4

Issue Date: 12/17/2024

**Test Information**

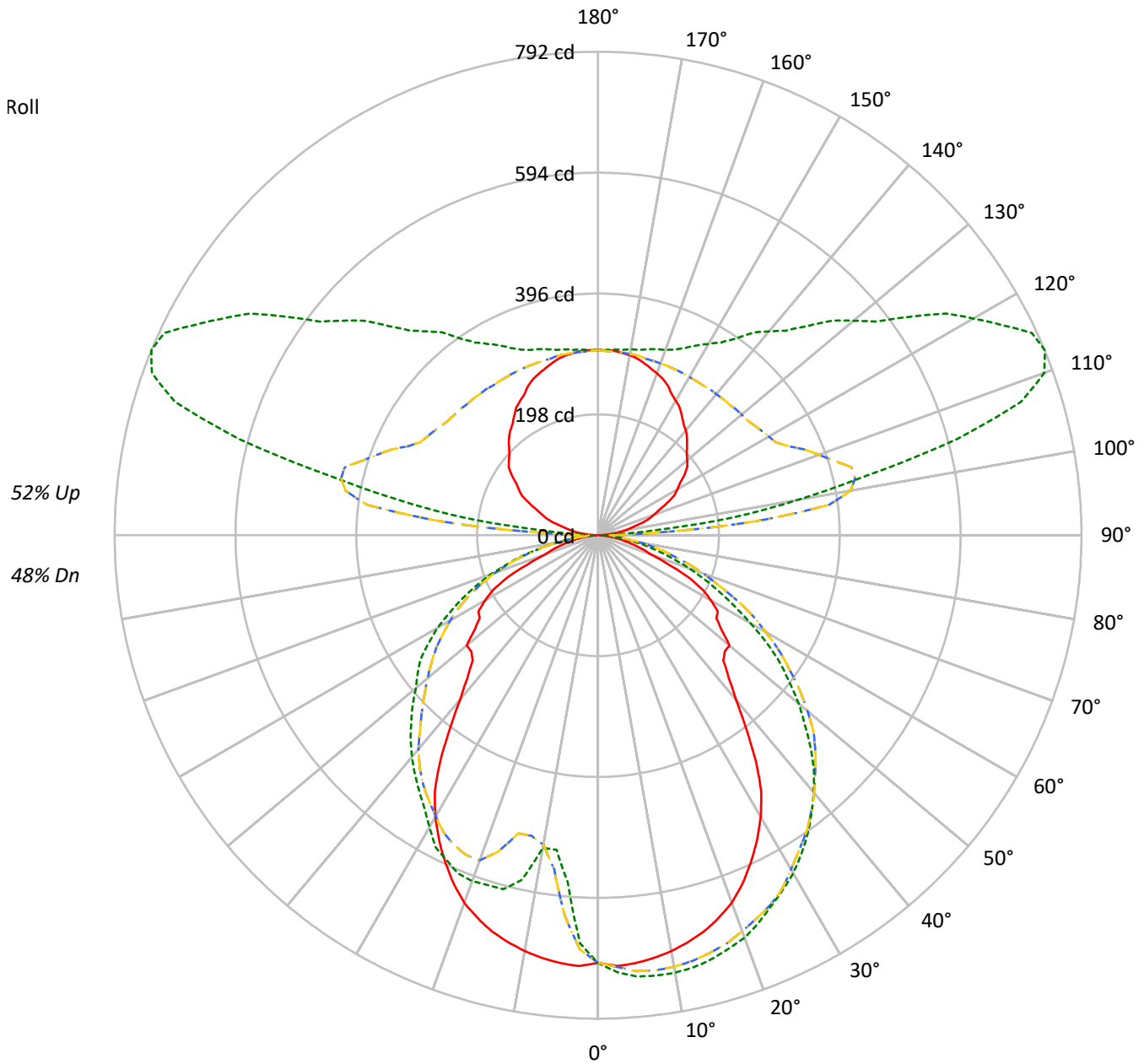
Test Method: LM-79-2019  
Report Number: P934218  
REPORT IS A COMBINATION OF REPORTS P933690 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-840-1D-UNV-STD-W-4  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3784.0 lumens  
Efficiency: N/A  
Efficacy: 133.2 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): 28.4  
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

TEST NUMBER: P934218  
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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	50	30	10	0
RCR																					
0	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12	12

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

	0°	90°	180°	270°
0°	6499	6499	6499	6499
5°	6540	6561	6540	5158
10°	6490	6463	6490	4621
15°	6411	6323	6411	5279
20°	6270	6156	6270	5290
25°	5988	5915	5988	5178
30°	5627	5714	5627	4933
35°	5009	5459	5009	4662
40°	4166	5161	4166	4457
45°	3715	4811	3715	4221
50°	3939	4393	3939	3986
55°	3694	3943	3694	3850
60°	3796	3349	3796	3526
65°	3424	2768	3424	3094
70°	2356	2207	2356	2594
75°	2040	1630	2040	1953
80°	1615	1079	1615	1173
85°	878	571	878	485

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5706 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	63.2	1.7
10°-20°	179.5	4.7
20°-30°	277.5	7.3
30°-40°	331.3	8.8
40°-50°	333.2	8.8
50°-60°	289.9	7.7
60°-70°	205.6	5.4
70°-80°	108.8	2.9
80°-90°	28.2	0.7
90°-100°	147.9	3.9
100°-110°	388.9	10.3
110°-120°	403.2	10.7
120°-130°	323.4	8.5
130°-140°	253.8	6.7
140°-150°	194.8	5.1
150°-160°	140.3	3.7
160°-170°	85.8	2.3
170°-180°	29.0	0.8
0°-30°	520.2	13.7
0°-40°	851.5	22.5
0°-60°	1474.6	39.0
0°-90°	1817.1	48.0
90°-120°	939.9	24.8
90°-150°	1711.8	45.2
90°-180°	1967.0	52.0
0°-180°	3784.0	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	700	700	700	700	700	
5°	704	726	704	570	704	67
15°	672	719	672	600	672	189
25°	592	671	592	587	592	272
35°	450	598	450	511	450	278
45°	290	493	290	433	290	232
55°	236	364	236	355	236	217
65°	164	219	164	245	164	157
75°	62	104	62	125	62	65
85°	11	26	11	22	11	14
90°	2	8	2	8	2	2
95°	20	89	20	89	20	22
105°	70	609	70	609	70	74
115°	124	784	124	784	124	123
125°	173	624	173	624	173	154
135°	206	484	206	484	206	160
145°	239	393	239	393	239	150
155°	270	338	270	338	270	124
165°	292	315	292	315	292	82
175°	303	306	303	306	303	29
180°	303	303	303	303	303	



TEST NUMBER: P934218  
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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	706.3	706.3	710.3	711.7	711.7	709.7	707.7	709.7	715.6	717.6	716.9
5°	703.7	709.0	716.3	717.6	719.0	718.3	716.9	718.3	724.9	726.2	726.9
7.5°	698.4	708.3	717.6	719.6	721.5	719.6	719.0	720.3	726.9	728.2	728.2
10°	691.8	705.6	716.3	717.6	719.6	717.6	717.6	720.3	726.9	728.2	728.8
12.5°	682.5	701.7	711.7	712.9	715.6	714.9	714.3	716.9	723.6	724.9	724.9
15°	671.8	694.4	703.7	705.0	709.7	708.3	708.3	711.0	718.3	720.3	719.6
17.5°	657.3	685.2	695.7	697.7	701.1	700.4	701.1	703.7	710.3	711.7	712.3
20°	640.7	672.5	685.2	687.2	690.4	690.4	690.4	693.8	700.4	703.1	703.1
22.5°	618.2	659.3	672.5	673.9	677.9	677.9	679.2	683.8	689.7	690.4	690.4
25°	591.7	644.7	655.9	660.0	663.9	665.9	667.9	670.6	672.5	671.8	672.5
27.5°	563.9	626.2	640.7	643.4	648.7	650.7	653.4	654.0	654.6	656.6	655.3
30°	532.7	600.3	622.1	624.8	633.4	634.8	632.1	633.4	636.8	638.1	639.4
32.5°	497.7	561.9	603.0	608.9	616.9	613.0	612.3	614.2	619.6	619.6	620.9
35°	449.9	532.0	585.1	590.4	596.4	591.7	594.4	595.0	598.3	600.3	599.6
37.5°	397.6	506.3	566.5	570.5	575.1	569.2	573.1	575.1	577.8	576.5	576.5
40°	351.1	465.8	544.7	547.4	551.3	546.7	550.6	552.0	553.3	552.0	551.3
42.5°	316.8	421.4	521.5	524.8	522.2	525.4	526.8	529.5	527.4	524.8	524.8
45°	290.2	409.5	496.3	500.2	496.3	501.6	503.6	503.6	497.7	496.3	495.6
47.5°	281.6	385.6	471.1	471.1	469.1	475.7	479.1	474.4	468.5	466.4	466.4
50°	281.0	359.1	436.7	434.0	443.3	451.2	448.0	443.3	438.7	431.4	431.4
52.5°	255.1	326.6	392.2	402.2	416.7	421.4	416.1	411.5	403.5	400.2	397.6
55°	236.5	292.8	351.8	371.7	387.0	392.9	382.9	378.3	366.4	364.5	363.1
57.5°	232.6	243.8	314.8	339.9	358.4	357.9	351.8	343.2	333.3	331.3	330.7
60°	213.4	176.3	275.0	304.8	324.0	322.0	316.8	308.8	299.5	298.2	296.9
62.5°	193.5	127.8	229.9	263.7	290.9	290.2	285.6	273.7	267.1	263.7	261.0
65°	164.3	107.3	163.7	219.3	258.5	259.7	249.8	241.2	233.9	229.9	229.2
67.5°	125.3	87.4	110.7	182.9	227.2	226.0	213.4	209.4	200.1	198.1	194.1
70°	92.8	58.3	76.9	148.4	196.8	193.5	183.6	178.9	170.3	165.7	163.0
72.5°	76.9	47.0	56.3	115.3	165.7	161.6	153.0	147.8	140.5	136.5	133.9
75°	62.2	49.7	43.1	85.5	134.5	131.9	123.9	118.6	112.6	107.3	108.0
77.5°	45.7	46.3	34.5	62.9	106.7	102.8	98.1	91.5	88.8	83.5	83.5
80°	34.5	36.5	25.9	43.1	76.9	76.9	72.9	68.3	63.6	61.0	61.0
82.5°	23.2	23.2	19.2	27.2	52.4	50.4	47.7	46.3	43.8	42.4	42.4
85°	10.6	13.2	12.0	16.6	28.5	29.8	29.8	28.5	27.9	26.5	27.2
87.5°	3.4	5.9	7.3	9.3	14.6	15.2	15.9	15.9	15.9	16.6	16.6
90°	2.1	3.7	5.3	5.7	9.0	13.3	15.5	13.7	10.3	7.7	7.7
92.5°	8.1	21.9	35.9	39.3	55.2	76.5	87.1	76.4	54.8	38.7	37.1
95°	19.6	44.9	70.2	76.6	135.9	215.1	254.7	227.2	172.4	131.3	126.7
97.5°	33.8	56.1	78.4	84.1	183.1	315.2	381.2	363.9	329.2	303.2	294.3
100°	44.8	65.0	85.4	90.4	200.3	346.8	420.1	421.4	424.0	425.8	415.3
102.5°	54.1	73.1	92.0	96.7	208.2	356.8	431.1	453.2	497.4	530.5	521.4
105°	70.0	86.1	102.1	106.1	214.0	358.0	429.9	479.4	578.4	652.7	647.8
107.5°	86.4	101.3	116.2	119.9	215.1	342.0	405.5	474.5	612.7	716.2	717.4
110°	97.3	110.8	124.3	127.6	213.5	327.9	385.1	462.3	616.7	732.5	737.5



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	108.1	120.9	133.8	137.0	213.5	315.6	366.5	445.6	603.6	722.1	729.9
115°	124.4	136.2	148.1	151.1	215.5	301.3	344.3	420.4	572.6	686.9	697.6
117.5°	140.5	151.3	162.0	164.7	219.5	292.5	329.1	397.8	535.1	638.1	650.1
120°	149.9	160.1	170.1	172.7	222.8	289.6	323.0	385.7	511.3	605.4	617.1
122.5°	159.1	169.3	179.5	182.1	227.4	288.0	318.2	374.7	487.9	572.6	584.1
125°	173.1	182.4	191.7	194.0	233.8	286.7	313.2	361.2	457.2	529.3	539.8
127.5°	184.5	193.9	203.3	205.7	240.1	286.0	308.9	350.1	432.5	494.4	503.3
130°	190.6	200.8	210.8	213.4	244.7	286.4	307.3	344.0	417.4	472.5	480.7
132.5°	196.9	207.1	217.2	219.7	248.5	286.7	305.9	338.7	404.4	453.7	461.1
135°	206.3	215.5	224.8	227.0	252.5	286.4	303.4	330.9	385.9	427.2	433.5
137.5°	215.9	225.0	234.2	236.4	258.7	288.2	303.0	326.2	372.8	407.6	412.9
140°	223.8	232.2	240.7	242.8	262.3	288.5	301.5	321.7	361.9	392.0	396.9
142.5°	229.9	237.7	245.4	247.4	265.5	289.5	301.5	319.2	354.5	381.0	385.1
145°	239.3	246.0	252.8	254.5	269.5	289.6	299.6	314.0	342.8	364.5	367.6
147.5°	248.7	255.3	261.8	263.5	275.6	291.6	299.6	310.9	333.6	350.6	353.3
150°	254.7	260.6	266.7	268.1	278.6	292.5	299.6	309.1	328.3	342.7	344.9
152.5°	261.0	265.6	270.1	271.2	280.7	293.2	299.6	307.8	324.2	336.4	338.0
155°	270.4	273.8	277.1	277.9	285.1	294.7	299.6	306.1	319.1	328.9	330.0
157.5°	277.3	280.6	283.9	284.6	289.6	296.2	299.6	304.6	314.8	322.4	323.2
160°	282.1	284.5	287.1	287.7	291.7	296.9	299.6	303.9	312.6	319.1	319.5
162.5°	286.7	288.6	290.5	291.0	293.8	297.7	299.6	303.2	310.5	316.1	316.5
165°	291.9	293.5	295.3	295.7	297.0	298.7	299.6	302.1	307.4	311.3	311.7
167.5°	296.5	297.3	298.1	298.3	299.4	300.8	301.5	303.3	306.8	309.3	309.5
170°	299.6	300.4	301.1	301.3	301.4	301.5	301.5	303.3	306.8	309.3	309.3
172.5°	301.1	301.3	301.5	301.5	301.5	301.5	301.5	302.9	305.6	307.7	307.5
175°	303.4	303.4	303.4	303.4	302.8	301.9	301.5	302.4	304.2	305.5	305.5
177.5°	303.4	303.4	303.4	303.4	302.9	302.3	302.0	302.7	304.1	305.1	304.9
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	718.3	716.3	718.3	716.9	717.6	715.6	709.7	707.7	709.7	711.7	711.7
5°	726.9	725.6	726.9	726.9	726.2	724.9	718.3	716.9	718.3	719.0	717.6
7.5°	729.5	727.6	729.5	728.2	728.2	726.9	720.3	719.0	719.6	721.5	719.6
10°	729.5	727.6	729.5	728.8	728.2	726.9	720.3	717.6	717.6	719.6	717.6
12.5°	726.2	724.9	726.2	724.9	724.9	723.6	716.9	714.3	714.9	715.6	712.9
15°	720.9	719.0	720.9	719.6	720.3	718.3	711.0	708.3	708.3	709.7	705.0
17.5°	712.9	710.3	712.9	712.3	711.7	710.3	703.7	701.1	700.4	701.1	697.7
20°	703.7	701.7	703.7	703.1	703.1	700.4	693.8	690.4	690.4	690.4	687.2
22.5°	689.1	687.2	689.1	690.4	690.4	689.7	683.8	679.2	677.9	677.9	673.9
25°	672.5	670.6	672.5	672.5	671.8	672.5	670.6	667.9	665.9	663.9	660.0
27.5°	656.6	655.3	656.6	655.3	656.6	654.6	654.0	653.4	650.7	648.7	643.4
30°	640.7	639.4	640.7	639.4	638.1	636.8	633.4	632.1	634.8	633.4	624.8
32.5°	620.9	619.6	620.9	620.9	619.6	619.6	614.2	612.3	613.0	616.9	608.9
35°	600.3	598.3	600.3	599.6	600.3	598.3	595.0	594.4	591.7	596.4	590.4
37.5°	576.5	574.5	576.5	576.5	576.5	577.8	575.1	573.1	569.2	575.1	570.5
40°	552.0	549.3	552.0	551.3	552.0	553.3	552.0	550.6	546.7	551.3	547.4
42.5°	524.1	523.4	524.1	524.8	524.8	527.4	529.5	526.8	525.4	522.2	524.8
45°	494.3	493.0	494.3	495.6	496.3	497.7	503.6	503.6	501.6	496.3	500.2
47.5°	462.5	459.2	462.5	466.4	466.4	468.5	474.4	479.1	475.7	469.1	471.1
50°	428.7	429.4	428.7	431.4	431.4	438.7	443.3	448.0	451.2	443.3	434.0
52.5°	395.6	394.9	395.6	397.6	400.2	403.5	411.5	416.1	421.4	416.7	402.2
55°	362.4	363.8	362.4	363.1	364.5	366.4	378.3	382.9	392.9	387.0	371.7
57.5°	329.3	327.3	329.3	330.7	331.3	333.3	343.2	351.8	357.9	358.4	339.9
60°	290.9	288.2	290.9	296.9	298.2	299.5	308.8	316.8	322.0	324.0	304.8
62.5°	257.1	252.4	257.1	261.0	263.7	267.1	273.7	285.6	290.2	290.9	263.7
65°	221.3	219.3	221.3	229.2	229.9	233.9	241.2	249.8	259.7	258.5	219.3
67.5°	188.8	188.8	188.8	194.1	198.1	200.1	209.4	213.4	226.0	227.2	182.9
70°	159.1	158.4	159.1	163.0	165.7	170.3	178.9	183.6	193.5	196.8	148.4
72.5°	130.5	129.8	130.5	133.9	136.5	140.5	147.8	153.0	161.6	165.7	115.3
75°	105.3	104.0	105.3	108.0	107.3	112.6	118.6	123.9	131.9	134.5	85.5
77.5°	80.8	80.8	80.8	83.5	83.5	88.8	91.5	98.1	102.8	106.7	62.9
80°	60.3	59.7	60.3	61.0	61.0	63.6	68.3	72.9	76.9	76.9	43.1
82.5°	42.4	41.1	42.4	42.4	42.4	43.8	46.3	47.7	50.4	52.4	27.2
85°	26.5	26.5	26.5	27.2	26.5	27.9	28.5	29.8	29.8	28.5	16.6
87.5°	17.2	16.6	17.2	16.6	16.6	15.9	15.9	15.9	15.2	14.6	9.3
90°	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3	9.0	5.7
92.5°	31.0	24.8	31.0	37.1	38.7	54.8	76.4	87.1	76.5	55.2	39.3
95°	108.0	89.4	108.0	126.7	131.3	172.4	227.2	254.7	215.1	135.9	76.6
97.5°	258.9	223.4	258.9	294.3	303.2	329.2	363.9	381.2	315.2	183.1	84.1
100°	373.0	330.7	373.0	415.3	425.8	424.0	421.4	420.1	346.8	200.3	90.4
102.5°	485.2	449.0	485.2	521.4	530.5	497.4	453.2	431.1	356.8	208.2	96.7
105°	628.4	608.9	628.4	647.8	652.7	578.4	479.4	429.9	358.0	214.0	106.1
107.5°	722.0	726.8	722.0	717.4	716.2	612.7	474.5	405.5	342.0	215.1	119.9
110°	757.8	778.0	757.8	737.5	732.5	616.7	462.3	385.1	327.9	213.5	127.6





TEST NUMBER: P934218

CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	761.1	792.2	761.1	729.9	722.1	603.6	445.6	366.5	315.6	213.5	137.0
115°	740.8	784.0	740.8	697.6	686.9	572.6	420.4	344.3	301.3	215.5	151.1
117.5°	698.0	745.9	698.0	650.1	638.1	535.1	397.8	329.1	292.5	219.5	164.7
120°	663.5	710.1	663.5	617.1	605.4	511.3	385.7	323.0	289.6	222.8	172.7
122.5°	630.0	675.9	630.0	584.1	572.6	487.9	374.7	318.2	288.0	227.4	182.1
125°	582.0	624.3	582.0	539.8	529.3	457.2	361.2	313.2	286.7	233.8	194.0
127.5°	539.0	574.6	539.0	503.3	494.4	432.5	350.1	308.9	286.0	240.1	205.7
130°	513.7	546.6	513.7	480.7	472.5	417.4	344.0	307.3	286.4	244.7	213.4
132.5°	490.5	520.1	490.5	461.1	453.7	404.4	338.7	305.9	286.7	248.5	219.7
135°	459.0	484.4	459.0	433.5	427.2	385.9	330.9	303.4	286.4	252.5	227.0
137.5°	433.6	454.5	433.6	412.9	407.6	372.8	326.2	303.0	288.2	258.7	236.4
140°	416.3	435.8	416.3	396.9	392.0	361.9	321.7	301.5	288.5	262.3	242.8
142.5°	401.9	418.7	401.9	385.1	381.0	354.5	319.2	301.5	289.5	265.5	247.4
145°	380.4	393.0	380.4	367.6	364.5	342.8	314.0	299.6	289.6	269.5	254.5
147.5°	363.8	374.3	363.8	353.3	350.6	333.6	310.9	299.6	291.6	275.6	263.5
150°	353.4	361.9	353.4	344.9	342.7	328.3	309.1	299.6	292.5	278.6	268.1
152.5°	344.4	350.8	344.4	338.0	336.4	324.2	307.8	299.6	293.2	280.7	271.2
155°	334.2	338.5	334.2	330.0	328.9	319.1	306.1	299.6	294.7	285.1	277.9
157.5°	326.1	329.1	326.1	323.2	322.4	314.8	304.6	299.6	296.2	289.6	284.6
160°	321.3	323.0	321.3	319.5	319.1	312.6	303.9	299.6	296.9	291.7	287.7
162.5°	318.1	319.7	318.1	316.5	316.1	310.5	303.2	299.6	297.7	293.8	291.0
165°	313.5	315.3	313.5	311.7	311.3	307.4	302.1	299.6	298.7	297.0	295.7
167.5°	310.2	310.9	310.2	309.5	309.3	306.8	303.3	301.5	300.8	299.4	298.3
170°	309.3	309.3	309.3	309.3	309.3	306.8	303.3	301.5	301.5	301.4	301.3
172.5°	306.9	306.3	306.9	307.5	307.7	305.6	302.9	301.5	301.5	301.5	301.5
175°	305.5	305.5	305.5	305.5	305.5	304.2	302.4	301.5	301.9	302.8	303.4
177.5°	304.2	303.4	304.2	304.9	305.1	304.1	302.7	302.0	302.3	302.9	303.4
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934218

CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	710.3	706.3	706.3	699.7	697.0	695.1	691.8	681.8	679.2	676.5	680.5
5°	716.3	709.0	703.7	691.8	681.8	677.9	665.2	641.4	625.5	613.5	606.9
7.5°	717.6	708.3	698.4	679.8	655.9	645.4	606.9	563.3	551.3	540.7	534.0
10°	716.3	705.6	691.8	663.9	607.6	589.0	550.6	522.2	514.8	512.9	514.8
12.5°	711.7	701.7	682.5	636.1	557.2	544.7	522.2	505.6	504.3	507.5	525.4
15°	703.7	694.4	671.8	599.0	529.5	520.2	504.3	498.2	505.6	528.8	582.4
17.5°	695.7	685.2	657.3	562.6	508.2	501.6	490.3	502.3	543.3	574.5	592.4
20°	685.2	672.5	640.7	536.1	493.0	487.0	481.7	535.4	566.5	577.8	587.8
22.5°	672.5	659.3	618.2	517.5	477.1	472.5	475.7	554.0	566.5	574.5	583.1
25°	655.9	644.7	591.7	502.9	464.5	459.2	471.8	552.0	559.2	561.2	578.5
27.5°	640.7	626.2	563.9	489.7	449.2	447.3	475.1	543.3	548.6	550.6	569.2
30°	622.1	600.3	532.7	475.7	433.3	432.6	475.7	532.7	531.4	536.7	555.3
32.5°	603.0	561.9	497.7	458.5	418.1	417.4	471.1	516.8	515.5	522.8	536.7
35°	585.1	532.0	449.9	438.7	398.9	399.5	459.8	498.2	498.9	505.6	514.2
37.5°	566.5	506.3	397.6	416.7	380.4	380.4	444.6	481.1	479.8	481.7	493.6
40°	544.7	465.8	351.1	388.3	363.1	361.1	426.0	462.5	457.8	457.2	473.7
42.5°	521.5	421.4	316.8	350.5	343.2	340.6	403.5	440.0	431.4	433.3	454.6
45°	496.3	409.5	290.2	296.2	322.7	320.7	379.0	414.2	408.1	413.5	435.3
47.5°	471.1	385.6	281.6	245.8	300.8	300.2	351.8	389.0	385.6	391.0	414.2
50°	436.7	359.1	281.0	210.7	276.3	278.9	319.4	364.5	364.5	369.1	393.6
52.5°	392.2	326.6	255.1	190.8	247.8	255.8	290.9	343.2	344.5	349.2	371.1
55°	351.8	292.8	236.5	175.6	214.0	231.3	263.0	321.4	324.0	328.6	348.6
57.5°	314.8	243.8	232.6	157.7	182.9	199.5	238.5	300.2	301.4	305.5	324.7
60°	275.0	176.3	213.4	138.5	155.7	168.3	216.0	275.0	279.6	282.3	298.9
62.5°	229.9	127.8	193.5	125.3	142.5	145.1	197.5	251.1	257.1	259.1	269.0
65°	163.7	107.3	164.3	114.0	128.5	129.2	177.5	226.6	231.9	235.2	242.6
67.5°	110.7	87.4	125.3	103.3	118.0	118.6	158.4	198.1	205.4	208.1	212.7
70°	76.9	58.3	92.8	92.1	106.0	107.3	137.8	172.3	178.9	180.9	183.6
72.5°	56.3	47.0	76.9	82.8	93.5	94.7	116.6	143.2	149.8	151.8	153.0
75°	43.1	49.7	62.2	72.2	79.5	80.1	95.4	116.6	121.2	122.6	123.2
77.5°	34.5	46.3	45.7	58.3	64.9	63.6	74.9	90.1	94.1	94.1	94.1
80°	25.9	36.5	34.5	41.8	47.7	46.3	53.6	64.3	65.6	66.9	66.3
82.5°	19.2	23.2	23.2	26.5	31.8	30.5	35.8	41.8	41.8	41.8	43.1
85°	12.0	13.2	10.6	13.9	17.9	17.2	19.9	22.5	23.2	23.2	21.8
87.5°	7.3	5.9	3.4	5.3	7.9	7.9	9.3	10.0	9.3	9.3	9.3
90°	5.3	3.7	2.1	3.7	5.3	5.7	9.0	13.3	15.5	13.7	10.3
92.5°	35.9	21.9	8.1	21.9	35.9	39.3	55.2	76.5	87.1	76.4	54.8
95°	70.2	44.9	19.6	44.9	70.2	76.6	135.9	215.1	254.7	227.2	172.4
97.5°	78.4	56.1	33.8	56.1	78.4	84.1	183.1	315.2	381.2	363.9	329.2
100°	85.4	65.0	44.8	65.0	85.4	90.4	200.3	346.8	420.1	421.4	424.0
102.5°	92.0	73.1	54.1	73.1	92.0	96.7	208.2	356.8	431.1	453.2	497.4
105°	102.1	86.1	70.0	86.1	102.1	106.1	214.0	358.0	429.9	479.4	578.4
107.5°	116.2	101.3	86.4	101.3	116.2	119.9	215.1	342.0	405.5	474.5	612.7
110°	124.3	110.8	97.3	110.8	124.3	127.6	213.5	327.9	385.1	462.3	616.7



TEST NUMBER: P934218

CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	133.8	120.9	108.1	120.9	133.8	137.0	213.5	315.6	366.5	445.6	603.6
115°	148.1	136.2	124.4	136.2	148.1	151.1	215.5	301.3	344.3	420.4	572.6
117.5°	162.0	151.3	140.5	151.3	162.0	164.7	219.5	292.5	329.1	397.8	535.1
120°	170.1	160.1	149.9	160.1	170.1	172.7	222.8	289.6	323.0	385.7	511.3
122.5°	179.5	169.3	159.1	169.3	179.5	182.1	227.4	288.0	318.2	374.7	487.9
125°	191.7	182.4	173.1	182.4	191.7	194.0	233.8	286.7	313.2	361.2	457.2
127.5°	203.3	193.9	184.5	193.9	203.3	205.7	240.1	286.0	308.9	350.1	432.5
130°	210.8	200.8	190.6	200.8	210.8	213.4	244.7	286.4	307.3	344.0	417.4
132.5°	217.2	207.1	196.9	207.1	217.2	219.7	248.5	286.7	305.9	338.7	404.4
135°	224.8	215.5	206.3	215.5	224.8	227.0	252.5	286.4	303.4	330.9	385.9
137.5°	234.2	225.0	215.9	225.0	234.2	236.4	258.7	288.2	303.0	326.2	372.8
140°	240.7	232.2	223.8	232.2	240.7	242.8	262.3	288.5	301.5	321.7	361.9
142.5°	245.4	237.7	229.9	237.7	245.4	247.4	265.5	289.5	301.5	319.2	354.5
145°	252.8	246.0	239.3	246.0	252.8	254.5	269.5	289.6	299.6	314.0	342.8
147.5°	261.8	255.3	248.7	255.3	261.8	263.5	275.6	291.6	299.6	310.9	333.6
150°	266.7	260.6	254.7	260.6	266.7	268.1	278.6	292.5	299.6	309.1	328.3
152.5°	270.1	265.6	261.0	265.6	270.1	271.2	280.7	293.2	299.6	307.8	324.2
155°	277.1	273.8	270.4	273.8	277.1	277.9	285.1	294.7	299.6	306.1	319.1
157.5°	283.9	280.6	277.3	280.6	283.9	284.6	289.6	296.2	299.6	304.6	314.8
160°	287.1	284.5	282.1	284.5	287.1	287.7	291.7	296.9	299.6	303.9	312.6
162.5°	290.5	288.6	286.7	288.6	290.5	291.0	293.8	297.7	299.6	303.2	310.5
165°	295.3	293.5	291.9	293.5	295.3	295.7	297.0	298.7	299.6	302.1	307.4
167.5°	298.1	297.3	296.5	297.3	298.1	298.3	299.4	300.8	301.5	303.3	306.8
170°	301.1	300.4	299.6	300.4	301.1	301.3	301.4	301.5	301.5	303.3	306.8
172.5°	301.5	301.3	301.1	301.3	301.5	301.5	301.5	301.5	301.5	302.9	305.6
175°	303.4	303.4	303.4	303.4	303.4	303.4	302.8	301.9	301.5	302.4	304.2
177.5°	303.4	303.4	303.4	303.4	303.4	303.4	302.9	302.3	302.0	302.7	304.1
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934218  
 CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4	700.4
2.5°	675.9	673.9	676.5	669.3	676.5	673.9	675.9	680.5	676.5	679.2	681.8
5°	593.0	589.7	579.2	570.5	579.2	589.7	593.0	606.9	613.5	625.5	641.4
7.5°	530.1	527.4	524.8	519.5	524.8	527.4	530.1	534.0	540.7	551.3	563.3
10°	516.1	516.8	520.8	520.2	520.8	516.8	516.1	514.8	512.9	514.8	522.2
12.5°	552.0	557.9	579.8	578.5	579.8	557.9	552.0	525.4	507.5	504.3	505.6
15°	593.0	595.0	599.6	600.3	599.6	595.0	593.0	582.4	528.8	505.6	498.2
17.5°	597.0	597.6	601.0	601.0	601.0	597.6	597.0	592.4	574.5	543.3	502.3
20°	593.7	595.0	601.7	603.0	601.7	595.0	593.7	587.8	577.8	566.5	535.4
22.5°	592.4	595.0	600.3	599.6	600.3	595.0	592.4	583.1	574.5	566.5	554.0
25°	585.8	585.8	586.4	587.1	586.4	585.8	585.8	578.5	561.2	559.2	552.0
27.5°	571.9	573.1	577.1	576.5	577.1	573.1	571.9	569.2	550.6	548.6	543.3
30°	559.2	557.9	554.6	552.0	554.6	557.9	559.2	555.3	536.7	531.4	532.7
32.5°	538.1	534.7	531.4	529.5	531.4	534.7	538.1	536.7	522.8	515.5	516.8
35°	512.9	513.6	512.9	510.9	512.9	513.6	512.9	514.2	505.6	498.9	498.2
37.5°	495.0	496.3	495.6	493.0	495.6	496.3	495.0	493.6	481.7	479.8	481.1
40°	476.4	477.1	476.4	474.4	476.4	477.1	476.4	473.7	457.2	457.8	462.5
42.5°	458.5	457.8	455.9	454.6	455.9	457.8	458.5	454.6	433.3	431.4	440.0
45°	438.0	438.7	434.6	432.6	434.6	438.7	438.0	435.3	413.5	408.1	414.2
47.5°	417.4	417.4	414.2	412.1	414.2	417.4	417.4	414.2	391.0	385.6	389.0
50°	395.6	394.9	390.3	389.6	390.3	394.9	395.6	393.6	369.1	364.5	364.5
52.5°	370.4	370.4	371.1	372.4	371.1	370.4	370.4	371.1	349.2	344.5	343.2
55°	348.6	349.2	353.8	355.2	353.8	349.2	348.6	348.6	328.6	324.0	321.4
57.5°	326.0	326.0	329.3	329.3	329.3	326.0	326.0	324.7	305.5	301.4	300.2
60°	300.2	301.4	304.1	303.5	304.1	301.4	300.2	298.9	282.3	279.6	275.0
62.5°	273.0	274.4	275.0	273.7	275.0	274.4	273.0	269.0	259.1	257.1	251.1
65°	244.5	245.8	246.5	245.1	246.5	245.8	244.5	242.6	235.2	231.9	226.6
67.5°	215.4	214.7	214.0	216.7	214.0	214.7	215.4	212.7	208.1	205.4	198.1
70°	185.5	185.5	184.9	186.2	184.9	185.5	185.5	183.6	180.9	178.9	172.3
72.5°	153.7	153.0	155.7	153.7	155.7	153.0	153.7	153.0	151.8	149.8	143.2
75°	122.6	123.9	122.6	124.6	122.6	123.9	122.6	123.2	122.6	121.2	116.6
77.5°	93.5	94.7	93.5	93.5	93.5	94.7	93.5	94.1	94.1	94.1	90.1
80°	66.3	65.6	65.6	64.9	65.6	65.6	66.3	66.3	66.9	65.6	64.3
82.5°	42.4	41.8	41.8	43.1	41.8	41.8	42.4	43.1	41.8	41.8	41.8
85°	23.2	23.8	22.5	22.5	22.5	23.8	23.2	21.8	23.2	23.2	22.5
87.5°	8.6	7.9	7.9	7.9	7.9	7.9	8.6	9.3	9.3	9.3	10.0
90°	7.7	7.7	7.7	7.7	7.7	7.7	7.7	10.3	13.7	15.5	13.3
92.5°	38.7	37.1	31.0	24.8	31.0	37.1	38.7	54.8	76.4	87.1	76.5
95°	131.3	126.7	108.0	89.4	108.0	126.7	131.3	172.4	227.2	254.7	215.1
97.5°	303.2	294.3	258.9	223.4	258.9	294.3	303.2	329.2	363.9	381.2	315.2
100°	425.8	415.3	373.0	330.7	373.0	415.3	425.8	424.0	421.4	420.1	346.8
102.5°	530.5	521.4	485.2	449.0	485.2	521.4	530.5	497.4	453.2	431.1	356.8
105°	652.7	647.8	628.4	608.9	628.4	647.8	652.7	578.4	479.4	429.9	358.0
107.5°	716.2	717.4	722.0	726.8	722.0	717.4	716.2	612.7	474.5	405.5	342.0
110°	732.5	737.5	757.8	778.0	757.8	737.5	732.5	616.7	462.3	385.1	327.9



TEST NUMBER: P934218

CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	722.1	729.9	761.1	792.2	761.1	729.9	722.1	603.6	445.6	366.5	315.6
115°	686.9	697.6	740.8	784.0	740.8	697.6	686.9	572.6	420.4	344.3	301.3
117.5°	638.1	650.1	698.0	745.9	698.0	650.1	638.1	535.1	397.8	329.1	292.5
120°	605.4	617.1	663.5	710.1	663.5	617.1	605.4	511.3	385.7	323.0	289.6
122.5°	572.6	584.1	630.0	675.9	630.0	584.1	572.6	487.9	374.7	318.2	288.0
125°	529.3	539.8	582.0	624.3	582.0	539.8	529.3	457.2	361.2	313.2	286.7
127.5°	494.4	503.3	539.0	574.6	539.0	503.3	494.4	432.5	350.1	308.9	286.0
130°	472.5	480.7	513.7	546.6	513.7	480.7	472.5	417.4	344.0	307.3	286.4
132.5°	453.7	461.1	490.5	520.1	490.5	461.1	453.7	404.4	338.7	305.9	286.7
135°	427.2	433.5	459.0	484.4	459.0	433.5	427.2	385.9	330.9	303.4	286.4
137.5°	407.6	412.9	433.6	454.5	433.6	412.9	407.6	372.8	326.2	303.0	288.2
140°	392.0	396.9	416.3	435.8	416.3	396.9	392.0	361.9	321.7	301.5	288.5
142.5°	381.0	385.1	401.9	418.7	401.9	385.1	381.0	354.5	319.2	301.5	289.5
145°	364.5	367.6	380.4	393.0	380.4	367.6	364.5	342.8	314.0	299.6	289.6
147.5°	350.6	353.3	363.8	374.3	363.8	353.3	350.6	333.6	310.9	299.6	291.6
150°	342.7	344.9	353.4	361.9	353.4	344.9	342.7	328.3	309.1	299.6	292.5
152.5°	336.4	338.0	344.4	350.8	344.4	338.0	336.4	324.2	307.8	299.6	293.2
155°	328.9	330.0	334.2	338.5	334.2	330.0	328.9	319.1	306.1	299.6	294.7
157.5°	322.4	323.2	326.1	329.1	326.1	323.2	322.4	314.8	304.6	299.6	296.2
160°	319.1	319.5	321.3	323.0	321.3	319.5	319.1	312.6	303.9	299.6	296.9
162.5°	316.1	316.5	318.1	319.7	318.1	316.5	316.1	310.5	303.2	299.6	297.7
165°	311.3	311.7	313.5	315.3	313.5	311.7	311.3	307.4	302.1	299.6	298.7
167.5°	309.3	309.5	310.2	310.9	310.2	309.5	309.3	306.8	303.3	301.5	300.8
170°	309.3	309.3	309.3	309.3	309.3	309.3	309.3	306.8	303.3	301.5	301.5
172.5°	307.7	307.5	306.9	306.3	306.9	307.5	307.7	305.6	302.9	301.5	301.5
175°	305.5	305.5	305.5	305.5	305.5	305.5	305.5	304.2	302.4	301.5	301.9
177.5°	305.1	304.9	304.2	303.4	304.2	304.9	305.1	304.1	302.7	302.0	302.3
180°	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934218

CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	700.4	700.4	700.4	700.4	700.4
2.5°	691.8	695.1	697.0	699.7	706.3
5°	665.2	677.9	681.8	691.8	703.7
7.5°	606.9	645.4	655.9	679.8	698.4
10°	550.6	589.0	607.6	663.9	691.8
12.5°	522.2	544.7	557.2	636.1	682.5
15°	504.3	520.2	529.5	599.0	671.8
17.5°	490.3	501.6	508.2	562.6	657.3
20°	481.7	487.0	493.0	536.1	640.7
22.5°	475.7	472.5	477.1	517.5	618.2
25°	471.8	459.2	464.5	502.9	591.7
27.5°	475.1	447.3	449.2	489.7	563.9
30°	475.7	432.6	433.3	475.7	532.7
32.5°	471.1	417.4	418.1	458.5	497.7
35°	459.8	399.5	398.9	438.7	449.9
37.5°	444.6	380.4	380.4	416.7	397.6
40°	426.0	361.1	363.1	388.3	351.1
42.5°	403.5	340.6	343.2	350.5	316.8
45°	379.0	320.7	322.7	296.2	290.2
47.5°	351.8	300.2	300.8	245.8	281.6
50°	319.4	278.9	276.3	210.7	281.0
52.5°	290.9	255.8	247.8	190.8	255.1
55°	263.0	231.3	214.0	175.6	236.5
57.5°	238.5	199.5	182.9	157.7	232.6
60°	216.0	168.3	155.7	138.5	213.4
62.5°	197.5	145.1	142.5	125.3	193.5
65°	177.5	129.2	128.5	114.0	164.3
67.5°	158.4	118.6	118.0	103.3	125.3
70°	137.8	107.3	106.0	92.1	92.8
72.5°	116.6	94.7	93.5	82.8	76.9
75°	95.4	80.1	79.5	72.2	62.2
77.5°	74.9	63.6	64.9	58.3	45.7
80°	53.6	46.3	47.7	41.8	34.5
82.5°	35.8	30.5	31.8	26.5	23.2
85°	19.9	17.2	17.9	13.9	10.6
87.5°	9.3	7.9	7.9	5.3	3.4
90°	9.0	5.7	5.3	3.7	2.1
92.5°	55.2	39.3	35.9	21.9	8.1
95°	135.9	76.6	70.2	44.9	19.6
97.5°	183.1	84.1	78.4	56.1	33.8
100°	200.3	90.4	85.4	65.0	44.8
102.5°	208.2	96.7	92.0	73.1	54.1
105°	214.0	106.1	102.1	86.1	70.0
107.5°	215.1	119.9	116.2	101.3	86.4
110°	213.5	127.6	124.3	110.8	97.3



TEST NUMBER: P934218

CATALOG NUMBER: SQ4-FA-050U-050D-840-1D-UNV-STD-W-4

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	<i>213.5</i>	<i>137.0</i>	<i>133.8</i>	<i>120.9</i>	<i>108.1</i>
115°	215.5	151.1	148.1	136.2	124.4
117.5°	219.5	164.7	162.0	151.3	140.5
120°	222.8	172.7	170.1	160.1	149.9
122.5°	227.4	182.1	179.5	169.3	159.1
125°	233.8	194.0	191.7	182.4	173.1
127.5°	240.1	205.7	203.3	193.9	184.5
130°	244.7	213.4	210.8	200.8	190.6
132.5°	248.5	219.7	217.2	207.1	196.9
135°	252.5	227.0	224.8	215.5	206.3
137.5°	258.7	236.4	234.2	225.0	215.9
140°	262.3	242.8	240.7	232.2	223.8
142.5°	265.5	247.4	245.4	237.7	229.9
145°	269.5	254.5	252.8	246.0	239.3
147.5°	275.6	263.5	261.8	255.3	248.7
150°	278.6	268.1	266.7	260.6	254.7
152.5°	280.7	271.2	270.1	265.6	261.0
155°	285.1	277.9	277.1	273.8	270.4
157.5°	289.6	284.6	283.9	280.6	277.3
160°	291.7	287.7	287.1	284.5	282.1
162.5°	293.8	291.0	290.5	288.6	286.7
165°	297.0	295.7	295.3	293.5	291.9
167.5°	299.4	298.3	298.1	297.3	296.5
170°	301.4	301.3	301.1	300.4	299.6
172.5°	301.5	301.5	301.5	301.3	301.1
175°	302.8	303.4	303.4	303.4	303.4
177.5°	302.9	303.4	303.4	303.4	303.4
180°	303.4	303.4	303.4	303.4	303.4



TEST NUMBER: P934218  
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**CIE UGR TABLE:**

Reflectances:											
Ceiling		0.7	0.7	0.5	0.5	0.3	0.7	0.7	0.5	0.5	0.3
Wall		0.5	0.3	0.5	0.3	0.3	0.5	0.3	0.5	0.3	0.3
Reference plane		0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2	0.2
Room dimensions		Viewed crosswise					Viewed endwise				
X=2H	Y=2H	11.11	11.95	12.08	12.94	14.24	13.91	14.75	14.88	15.74	17.04
	3H	11.59	12.34	12.57	13.34	14.66	15.24	16.00	16.23	17.00	18.32
	4H	11.78	12.49	12.78	13.49	14.82	15.68	16.39	16.68	17.39	18.72
	6H	11.89	12.55	12.90	13.56	14.90	15.96	16.61	16.96	17.62	18.96
	8H	11.90	12.52	12.91	13.54	14.88	16.02	16.65	17.04	17.67	19.01
	12H	11.87	12.46	12.89	13.48	14.84	16.06	16.66	17.08	17.67	19.03
4H	2H	12.13	12.85	13.14	13.85	15.18	14.32	15.03	15.32	16.03	17.36
	3H	13.16	13.75	14.17	14.78	16.13	15.81	16.41	16.83	17.44	18.78
	4H	13.43	13.98	14.46	15.00	16.37	16.33	16.88	17.35	17.90	19.26
	6H	13.56	14.03	14.59	15.07	16.43	16.69	17.16	17.72	18.20	19.56
	8H	13.56	14.00	14.60	15.04	16.42	16.79	17.23	17.82	18.27	19.64
	12H	13.53	13.93	14.58	14.98	16.36	16.84	17.24	17.89	18.29	19.67
8H	4H	13.88	14.32	14.91	15.36	16.73	16.46	16.89	17.49	17.93	19.31
	6H	14.14	14.50	15.20	15.58	16.96	16.88	17.25	17.94	18.32	19.70
	8H	14.18	14.50	15.25	15.57	16.96	17.03	17.35	18.10	18.41	19.81
	12H	14.17	14.45	15.24	15.51	16.94	17.12	17.40	18.19	18.46	19.90
12H	4H	13.88	14.28	14.94	15.33	16.72	16.42	16.82	17.47	17.87	19.25
	6H	14.20	14.52	15.27	15.58	16.98	16.88	17.20	17.95	18.26	19.66
	8H	14.27	14.55	15.34	15.61	17.04	17.04	17.32	18.10	18.38	19.81