

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: P934234

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

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934234
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-92765-1D-UNV-STD-W-4-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

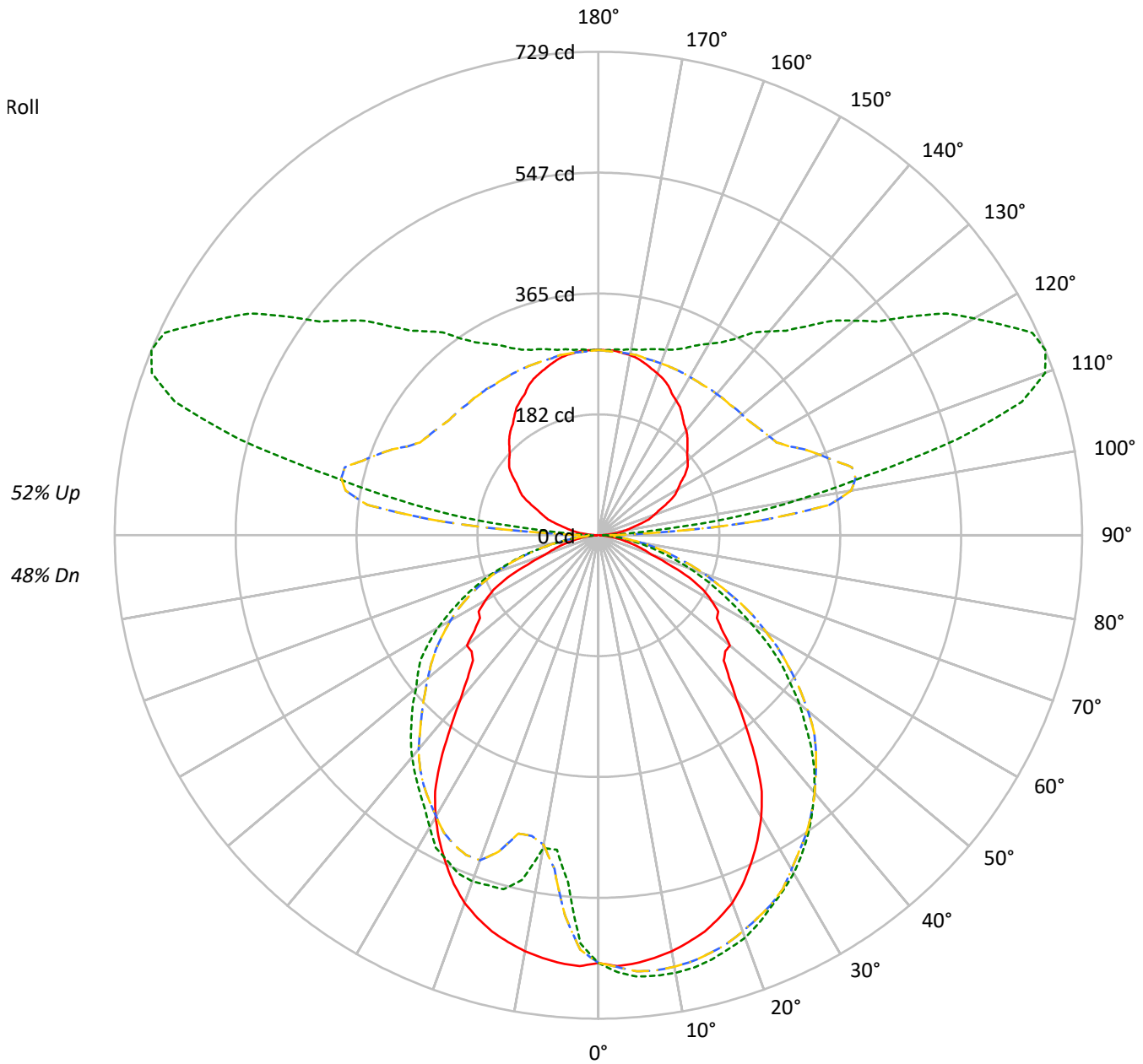
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3483.9 lumens
Efficiency: N/A
Efficacy: 122.7 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: P934234
CATALOG NUMBER: SQ4-FA-050U-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	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	83	80	72	70	68	60	58	56	48	47	46	41
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	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	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	34	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	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

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	1.7
10°-20°	165.3	4.7
20°-30°	255.5	7.3
30°-40°	305.0	8.8
40°-50°	306.8	8.8
50°-60°	266.9	7.7
60°-70°	189.3	5.4
70°-80°	100.1	2.9
80°-90°	26.0	0.7
90°-100°	136.2	3.9
100°-110°	358.0	10.3
110°-120°	371.2	10.7
120°-130°	297.8	8.5
130°-140°	233.6	6.7
140°-150°	179.3	5.1
150°-160°	129.1	3.7
160°-170°	79.0	2.3
170°-180°	26.7	0.8
0°-30°	478.9	13.7
0°-40°	783.9	22.5
0°-60°	1357.6	39.0
0°-90°	1673.0	48.0
90°-120°	865.4	24.8
90°-150°	1576.0	45.2
90°-180°	1811.0	52.0
0°-180°	3483.9	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°	2	7	2	7	2	2
95°	18	82	18	82	18	20
105°	64	561	64	561	64	68
115°	114	722	114	722	114	113
125°	159	575	159	575	159	142
135°	190	446	190	446	190	147
145°	220	362	220	362	220	138
155°	249	312	249	312	249	114
165°	269	290	269	290	269	76
175°	279	281	279	281	279	27
180°	279	279	279	279	279	



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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°	1.9	3.4	4.9	5.3	8.3	12.3	14.3	12.6	9.5	7.1	7.1
92.5°	7.5	20.2	33.0	36.2	50.8	70.4	80.2	70.3	50.5	35.7	34.2
95°	18.0	41.3	64.7	70.5	125.2	198.0	234.5	209.2	158.7	120.9	116.6
97.5°	31.1	51.7	72.2	77.4	168.6	290.2	350.9	335.0	303.1	279.2	271.0
100°	41.2	59.9	78.6	83.2	184.4	319.3	386.8	388.0	390.3	392.1	382.3
102.5°	49.8	67.3	84.7	89.1	191.7	328.5	396.9	417.3	457.9	488.4	480.0
105°	64.5	79.2	94.0	97.7	197.0	329.6	395.8	441.4	532.5	600.9	596.4
107.5°	79.5	93.2	107.0	110.4	198.0	314.9	373.3	436.9	564.1	659.4	660.5
110°	89.6	102.0	114.4	117.5	196.6	301.9	354.6	425.6	567.8	674.4	679.0



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	99.5	111.3	123.2	126.2	196.6	290.5	337.5	410.2	555.7	664.9	672.0
115°	114.5	125.4	136.4	139.1	198.4	277.4	317.0	387.1	527.2	632.4	642.3
117.5°	129.4	139.3	149.2	151.6	202.1	269.3	303.0	366.2	492.7	587.5	598.5
120°	138.0	147.4	156.6	159.0	205.1	266.6	297.4	355.1	470.7	557.4	568.2
122.5°	146.5	155.9	165.3	167.6	209.4	265.2	293.0	345.0	449.2	527.2	537.8
125°	159.4	167.9	176.5	178.7	215.2	264.0	288.4	332.6	421.0	487.3	497.0
127.5°	169.8	178.6	187.2	189.4	221.0	263.3	284.4	322.4	398.2	455.2	463.4
130°	175.5	184.8	194.1	196.5	225.3	263.7	282.9	316.7	384.3	435.0	442.5
132.5°	181.3	190.7	199.9	202.3	228.8	264.0	281.6	311.8	372.3	417.7	424.5
135°	189.9	198.4	206.9	209.0	232.5	263.7	279.3	304.6	355.3	393.3	399.1
137.5°	198.8	207.1	215.6	217.7	238.1	265.3	279.0	300.4	343.2	375.3	380.1
140°	206.0	213.8	221.6	223.5	241.5	265.6	277.6	296.2	333.2	360.9	365.4
142.5°	211.7	218.9	226.0	227.8	244.4	266.5	277.6	293.9	326.4	350.8	354.6
145°	220.3	226.5	232.8	234.3	248.1	266.6	275.8	289.1	315.6	335.6	338.5
147.5°	229.0	235.1	241.1	242.6	253.7	268.4	275.8	286.3	307.2	322.8	325.3
150°	234.5	240.0	245.5	246.9	256.5	269.3	275.8	284.6	302.3	315.6	317.6
152.5°	240.3	244.5	248.7	249.7	258.4	270.0	275.8	283.4	298.5	309.7	311.2
155°	249.0	252.1	255.2	255.9	262.5	271.3	275.8	281.8	293.8	302.8	303.8
157.5°	255.3	258.3	261.3	262.1	266.6	272.7	275.8	280.4	289.8	296.8	297.5
160°	259.7	262.0	264.3	264.9	268.5	273.3	275.8	279.8	287.8	293.8	294.2
162.5°	264.0	265.7	267.4	267.9	270.5	274.1	275.8	279.2	285.9	291.0	291.4
165°	268.7	270.3	271.9	272.3	273.4	275.0	275.8	278.2	283.0	286.6	287.0
167.5°	273.0	273.7	274.4	274.6	275.6	277.0	277.6	279.3	282.4	284.8	285.0
170°	275.8	276.5	277.3	277.4	277.5	277.6	277.6	279.3	282.4	284.8	284.8
172.5°	277.3	277.4	277.6	277.6	277.6	277.6	277.6	278.9	281.4	283.3	283.1
175°	279.3	279.3	279.3	279.3	278.8	278.0	277.6	278.4	280.1	281.3	281.3
177.5°	279.3	279.3	279.3	279.3	278.9	278.3	278.1	278.7	280.0	280.9	280.7
180°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3



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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°	7.1	7.1	7.1	7.1	7.1	9.5	12.6	14.3	12.3	8.3	5.3
92.5°	28.6	22.8	28.6	34.2	35.7	50.5	70.3	80.2	70.4	50.8	36.2
95°	99.4	82.3	99.4	116.6	120.9	158.7	209.2	234.5	198.0	125.2	70.5
97.5°	238.3	205.7	238.3	271.0	279.2	303.1	335.0	350.9	290.2	168.6	77.4
100°	343.4	304.5	343.4	382.3	392.1	390.3	388.0	386.8	319.3	184.4	83.2
102.5°	446.7	413.4	446.7	480.0	488.4	457.9	417.3	396.9	328.5	191.7	89.1
105°	578.5	560.6	578.5	596.4	600.9	532.5	441.4	395.8	329.6	197.0	97.7
107.5°	664.8	669.1	664.8	660.5	659.4	564.1	436.9	373.3	314.9	198.0	110.4
110°	697.7	716.3	697.7	679.0	674.4	567.8	425.6	354.6	301.9	196.6	117.5



TEST NUMBER: P934234

CATALOG NUMBER: SQ4-FA-050U-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°	700.7	729.3	700.7	672.0	664.9	555.7	410.2	337.5	290.5	196.6	126.2
115°	682.0	721.8	682.0	642.3	632.4	527.2	387.1	317.0	277.4	198.4	139.1
117.5°	642.7	686.8	642.7	598.5	587.5	492.7	366.2	303.0	269.3	202.1	151.6
120°	610.9	653.8	610.9	568.2	557.4	470.7	355.1	297.4	266.6	205.1	159.0
122.5°	580.1	622.3	580.1	537.8	527.2	449.2	345.0	293.0	265.2	209.4	167.6
125°	535.9	574.8	535.9	497.0	487.3	421.0	332.6	288.4	264.0	215.2	178.7
127.5°	496.2	529.0	496.2	463.4	455.2	398.2	322.4	284.4	263.3	221.0	189.4
130°	472.9	503.2	472.9	442.5	435.0	384.3	316.7	282.9	263.7	225.3	196.5
132.5°	451.6	478.8	451.6	424.5	417.7	372.3	311.8	281.6	264.0	228.8	202.3
135°	422.6	446.0	422.6	399.1	393.3	355.3	304.6	279.3	263.7	232.5	209.0
137.5°	399.2	418.4	399.2	380.1	375.3	343.2	300.4	279.0	265.3	238.1	217.7
140°	383.3	401.2	383.3	365.4	360.9	333.2	296.2	277.6	265.6	241.5	223.5
142.5°	370.0	385.5	370.0	354.6	350.8	326.4	293.9	277.6	266.5	244.4	227.8
145°	350.2	361.9	350.2	338.5	335.6	315.6	289.1	275.8	266.6	248.1	234.3
147.5°	334.9	344.6	334.9	325.3	322.8	307.2	286.3	275.8	268.4	253.7	242.6
150°	325.4	333.2	325.4	317.6	315.6	302.3	284.6	275.8	269.3	256.5	246.9
152.5°	317.1	323.0	317.1	311.2	309.7	298.5	283.4	275.8	270.0	258.4	249.7
155°	307.7	311.6	307.7	303.8	302.8	293.8	281.8	275.8	271.3	262.5	255.9
157.5°	300.3	303.0	300.3	297.5	296.8	289.8	280.4	275.8	272.7	266.6	262.1
160°	295.8	297.4	295.8	294.2	293.8	287.8	279.8	275.8	273.3	268.5	264.9
162.5°	292.9	294.4	292.9	291.4	291.0	285.9	279.2	275.8	274.1	270.5	267.9
165°	288.6	290.3	288.6	287.0	286.6	283.0	278.2	275.8	275.0	273.4	272.3
167.5°	285.6	286.3	285.6	285.0	284.8	282.4	279.3	277.6	277.0	275.6	274.6
170°	284.8	284.8	284.8	284.8	284.8	282.4	279.3	277.6	277.6	277.5	277.4
172.5°	282.5	282.0	282.5	283.1	283.3	281.4	278.9	277.6	277.6	277.6	277.6
175°	281.3	281.3	281.3	281.3	281.3	280.1	278.4	277.6	278.0	278.8	279.3
177.5°	280.1	279.3	280.1	280.7	280.9	280.0	278.7	278.1	278.3	278.9	279.3
180°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3



TEST NUMBER: P934234

CATALOG NUMBER: SQ4-FA-050U-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°	4.9	3.4	1.9	3.4	4.9	5.3	8.3	12.3	14.3	12.6	9.5
92.5°	33.0	20.2	7.5	20.2	33.0	36.2	50.8	70.4	80.2	70.3	50.5
95°	64.7	41.3	18.0	41.3	64.7	70.5	125.2	198.0	234.5	209.2	158.7
97.5°	72.2	51.7	31.1	51.7	72.2	77.4	168.6	290.2	350.9	335.0	303.1
100°	78.6	59.9	41.2	59.9	78.6	83.2	184.4	319.3	386.8	388.0	390.3
102.5°	84.7	67.3	49.8	67.3	84.7	89.1	191.7	328.5	396.9	417.3	457.9
105°	94.0	79.2	64.5	79.2	94.0	97.7	197.0	329.6	395.8	441.4	532.5
107.5°	107.0	93.2	79.5	93.2	107.0	110.4	198.0	314.9	373.3	436.9	564.1
110°	114.4	102.0	89.6	102.0	114.4	117.5	196.6	301.9	354.6	425.6	567.8



TEST NUMBER: P934234

CATALOG NUMBER: SQ4-FA-050U-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°	123.2	111.3	99.5	111.3	123.2	126.2	196.6	290.5	337.5	410.2	555.7
115°	136.4	125.4	114.5	125.4	136.4	139.1	198.4	277.4	317.0	387.1	527.2
117.5°	149.2	139.3	129.4	139.3	149.2	151.6	202.1	269.3	303.0	366.2	492.7
120°	156.6	147.4	138.0	147.4	156.6	159.0	205.1	266.6	297.4	355.1	470.7
122.5°	165.3	155.9	146.5	155.9	165.3	167.6	209.4	265.2	293.0	345.0	449.2
125°	176.5	167.9	159.4	167.9	176.5	178.7	215.2	264.0	288.4	332.6	421.0
127.5°	187.2	178.6	169.8	178.6	187.2	189.4	221.0	263.3	284.4	322.4	398.2
130°	194.1	184.8	175.5	184.8	194.1	196.5	225.3	263.7	282.9	316.7	384.3
132.5°	199.9	190.7	181.3	190.7	199.9	202.3	228.8	264.0	281.6	311.8	372.3
135°	206.9	198.4	189.9	198.4	206.9	209.0	232.5	263.7	279.3	304.6	355.3
137.5°	215.6	207.1	198.8	207.1	215.6	217.7	238.1	265.3	279.0	300.4	343.2
140°	221.6	213.8	206.0	213.8	221.6	223.5	241.5	265.6	277.6	296.2	333.2
142.5°	226.0	218.9	211.7	218.9	226.0	227.8	244.4	266.5	277.6	293.9	326.4
145°	232.8	226.5	220.3	226.5	232.8	234.3	248.1	266.6	275.8	289.1	315.6
147.5°	241.1	235.1	229.0	235.1	241.1	242.6	253.7	268.4	275.8	286.3	307.2
150°	245.5	240.0	234.5	240.0	245.5	246.9	256.5	269.3	275.8	284.6	302.3
152.5°	248.7	244.5	240.3	244.5	248.7	249.7	258.4	270.0	275.8	283.4	298.5
155°	255.2	252.1	249.0	252.1	255.2	255.9	262.5	271.3	275.8	281.8	293.8
157.5°	261.3	258.3	255.3	258.3	261.3	262.1	266.6	272.7	275.8	280.4	289.8
160°	264.3	262.0	259.7	262.0	264.3	264.9	268.5	273.3	275.8	279.8	287.8
162.5°	267.4	265.7	264.0	265.7	267.4	267.9	270.5	274.1	275.8	279.2	285.9
165°	271.9	270.3	268.7	270.3	271.9	272.3	273.4	275.0	275.8	278.2	283.0
167.5°	274.4	273.7	273.0	273.7	274.4	274.6	275.6	277.0	277.6	279.3	282.4
170°	277.3	276.5	275.8	276.5	277.3	277.4	277.5	277.6	277.6	279.3	282.4
172.5°	277.6	277.4	277.3	277.4	277.6	277.6	277.6	277.6	277.6	278.9	281.4
175°	279.3	279.3	279.3	279.3	279.3	279.3	278.8	278.0	277.6	278.4	280.1
177.5°	279.3	279.3	279.3	279.3	279.3	279.3	278.9	278.3	278.1	278.7	280.0
180°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3



TEST NUMBER: P934234

CATALOG NUMBER: SQ4-FA-050U-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°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.5	12.6	14.3	12.3
92.5°	35.7	34.2	28.6	22.8	28.6	34.2	35.7	50.5	70.3	80.2	70.4
95°	120.9	116.6	99.4	82.3	99.4	116.6	120.9	158.7	209.2	234.5	198.0
97.5°	279.2	271.0	238.3	205.7	238.3	271.0	279.2	303.1	335.0	350.9	290.2
100°	392.1	382.3	343.4	304.5	343.4	382.3	392.1	390.3	388.0	386.8	319.3
102.5°	488.4	480.0	446.7	413.4	446.7	480.0	488.4	457.9	417.3	396.9	328.5
105°	600.9	596.4	578.5	560.6	578.5	596.4	600.9	532.5	441.4	395.8	329.6
107.5°	659.4	660.5	664.8	669.1	664.8	660.5	659.4	564.1	436.9	373.3	314.9
110°	674.4	679.0	697.7	716.3	697.7	679.0	674.4	567.8	425.6	354.6	301.9



TEST NUMBER: P934234

CATALOG NUMBER: SQ4-FA-050U-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°	664.9	672.0	700.7	729.3	700.7	672.0	664.9	555.7	410.2	337.5	290.5
115°	632.4	642.3	682.0	721.8	682.0	642.3	632.4	527.2	387.1	317.0	277.4
117.5°	587.5	598.5	642.7	686.8	642.7	598.5	587.5	492.7	366.2	303.0	269.3
120°	557.4	568.2	610.9	653.8	610.9	568.2	557.4	470.7	355.1	297.4	266.6
122.5°	527.2	537.8	580.1	622.3	580.1	537.8	527.2	449.2	345.0	293.0	265.2
125°	487.3	497.0	535.9	574.8	535.9	497.0	487.3	421.0	332.6	288.4	264.0
127.5°	455.2	463.4	496.2	529.0	496.2	463.4	455.2	398.2	322.4	284.4	263.3
130°	435.0	442.5	472.9	503.2	472.9	442.5	435.0	384.3	316.7	282.9	263.7
132.5°	417.7	424.5	451.6	478.8	451.6	424.5	417.7	372.3	311.8	281.6	264.0
135°	393.3	399.1	422.6	446.0	422.6	399.1	393.3	355.3	304.6	279.3	263.7
137.5°	375.3	380.1	399.2	418.4	399.2	380.1	375.3	343.2	300.4	279.0	265.3
140°	360.9	365.4	383.3	401.2	383.3	365.4	360.9	333.2	296.2	277.6	265.6
142.5°	350.8	354.6	370.0	385.5	370.0	354.6	350.8	326.4	293.9	277.6	266.5
145°	335.6	338.5	350.2	361.9	350.2	338.5	335.6	315.6	289.1	275.8	266.6
147.5°	322.8	325.3	334.9	344.6	334.9	325.3	322.8	307.2	286.3	275.8	268.4
150°	315.6	317.6	325.4	333.2	325.4	317.6	315.6	302.3	284.6	275.8	269.3
152.5°	309.7	311.2	317.1	323.0	317.1	311.2	309.7	298.5	283.4	275.8	270.0
155°	302.8	303.8	307.7	311.6	307.7	303.8	302.8	293.8	281.8	275.8	271.3
157.5°	296.8	297.5	300.3	303.0	300.3	297.5	296.8	289.8	280.4	275.8	272.7
160°	293.8	294.2	295.8	297.4	295.8	294.2	293.8	287.8	279.8	275.8	273.3
162.5°	291.0	291.4	292.9	294.4	292.9	291.4	291.0	285.9	279.2	275.8	274.1
165°	286.6	287.0	288.6	290.3	288.6	287.0	286.6	283.0	278.2	275.8	275.0
167.5°	284.8	285.0	285.6	286.3	285.6	285.0	284.8	282.4	279.3	277.6	277.0
170°	284.8	284.8	284.8	284.8	284.8	284.8	284.8	282.4	279.3	277.6	277.6
172.5°	283.3	283.1	282.5	282.0	282.5	283.1	283.3	281.4	278.9	277.6	277.6
175°	281.3	281.3	281.3	281.3	281.3	281.3	281.3	280.1	278.4	277.6	278.0
177.5°	280.9	280.7	280.1	279.3	280.1	280.7	280.9	280.0	278.7	278.1	278.3
180°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3	279.3



TEST NUMBER: P934234

CATALOG NUMBER: SQ4-FA-050U-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°	8.3	5.3	4.9	3.4	1.9
92.5°	50.8	36.2	33.0	20.2	7.5
95°	125.2	70.5	64.7	41.3	18.0
97.5°	168.6	77.4	72.2	51.7	31.1
100°	184.4	83.2	78.6	59.9	41.2
102.5°	191.7	89.1	84.7	67.3	49.8
105°	197.0	97.7	94.0	79.2	64.5
107.5°	198.0	110.4	107.0	93.2	79.5
110°	196.6	117.5	114.4	102.0	89.6



TEST NUMBER: P934234

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

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	196.6	126.2	123.2	111.3	99.5
115°	198.4	139.1	136.4	125.4	114.5
117.5°	202.1	151.6	149.2	139.3	129.4
120°	205.1	159.0	156.6	147.4	138.0
122.5°	209.4	167.6	165.3	155.9	146.5
125°	215.2	178.7	176.5	167.9	159.4
127.5°	221.0	189.4	187.2	178.6	169.8
130°	225.3	196.5	194.1	184.8	175.5
132.5°	228.8	202.3	199.9	190.7	181.3
135°	232.5	209.0	206.9	198.4	189.9
137.5°	238.1	217.7	215.6	207.1	198.8
140°	241.5	223.5	221.6	213.8	206.0
142.5°	244.4	227.8	226.0	218.9	211.7
145°	248.1	234.3	232.8	226.5	220.3
147.5°	253.7	242.6	241.1	235.1	229.0
150°	256.5	246.9	245.5	240.0	234.5
152.5°	258.4	249.7	248.7	244.5	240.3
155°	262.5	255.9	255.2	252.1	249.0
157.5°	266.6	262.1	261.3	258.3	255.3
160°	268.5	264.9	264.3	262.0	259.7
162.5°	270.5	267.9	267.4	265.7	264.0
165°	273.4	272.3	271.9	270.3	268.7
167.5°	275.6	274.6	274.4	273.7	273.0
170°	277.5	277.4	277.3	276.5	275.8
172.5°	277.6	277.6	277.6	277.4	277.3
175°	278.8	279.3	279.3	279.3	279.3
177.5°	278.9	279.3	279.3	279.3	279.3
180°	279.3	279.3	279.3	279.3	279.3



TEST NUMBER: P934234

CATALOG NUMBER: SQ4-FA-050U-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	10.82	11.67	11.80	12.66	13.95	13.62	14.47	14.60	15.45	16.75
	3H	11.30	12.06	12.28	13.05	14.37	14.96	15.71	15.94	16.71	18.03
	4H	11.49	12.21	12.49	13.21	14.53	15.39	16.11	16.39	17.11	18.44
	6H	11.61	12.27	12.62	13.27	14.61	15.67	16.33	16.68	17.33	18.67
	8H	11.61	12.24	12.62	13.26	14.60	15.74	16.37	16.75	17.39	18.73
	12H	11.58	12.18	12.60	13.19	14.55	15.77	16.37	16.79	17.38	18.75
4H	2H	11.85	12.56	12.85	13.56	14.89	14.03	14.75	15.04	15.75	17.08
	3H	12.87	13.47	13.88	14.50	15.84	15.52	16.12	16.54	17.15	18.49
	4H	13.15	13.69	14.17	14.71	16.08	16.05	16.59	17.07	17.61	18.98
	6H	13.27	13.74	14.30	14.79	16.15	16.40	16.87	17.43	17.92	19.28
	8H	13.28	13.71	14.31	14.75	16.13	16.50	16.94	17.54	17.98	19.36
	12H	13.24	13.64	14.29	14.69	16.07	16.55	16.95	17.60	18.00	19.38
8H	4H	13.59	14.03	14.63	15.07	16.45	16.17	16.61	17.20	17.65	19.02
	6H	13.85	14.22	14.91	15.30	16.67	16.60	16.96	17.65	18.04	19.41
	8H	13.90	14.22	14.96	15.28	16.67	16.74	17.06	17.81	18.13	19.52
	12H	13.88	14.16	14.95	15.22	16.66	16.83	17.12	17.90	18.17	19.61
12H	4H	13.60	13.99	14.65	15.05	16.43	16.13	16.53	17.18	17.58	18.96
	6H	13.91	14.23	14.98	15.30	16.69	16.59	16.91	17.66	17.98	19.37
	8H	13.98	14.26	15.05	15.32	16.76	16.75	17.03	17.82	18.09	19.52