

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: P934286

Luminaire Tested: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934286
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-B2750-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

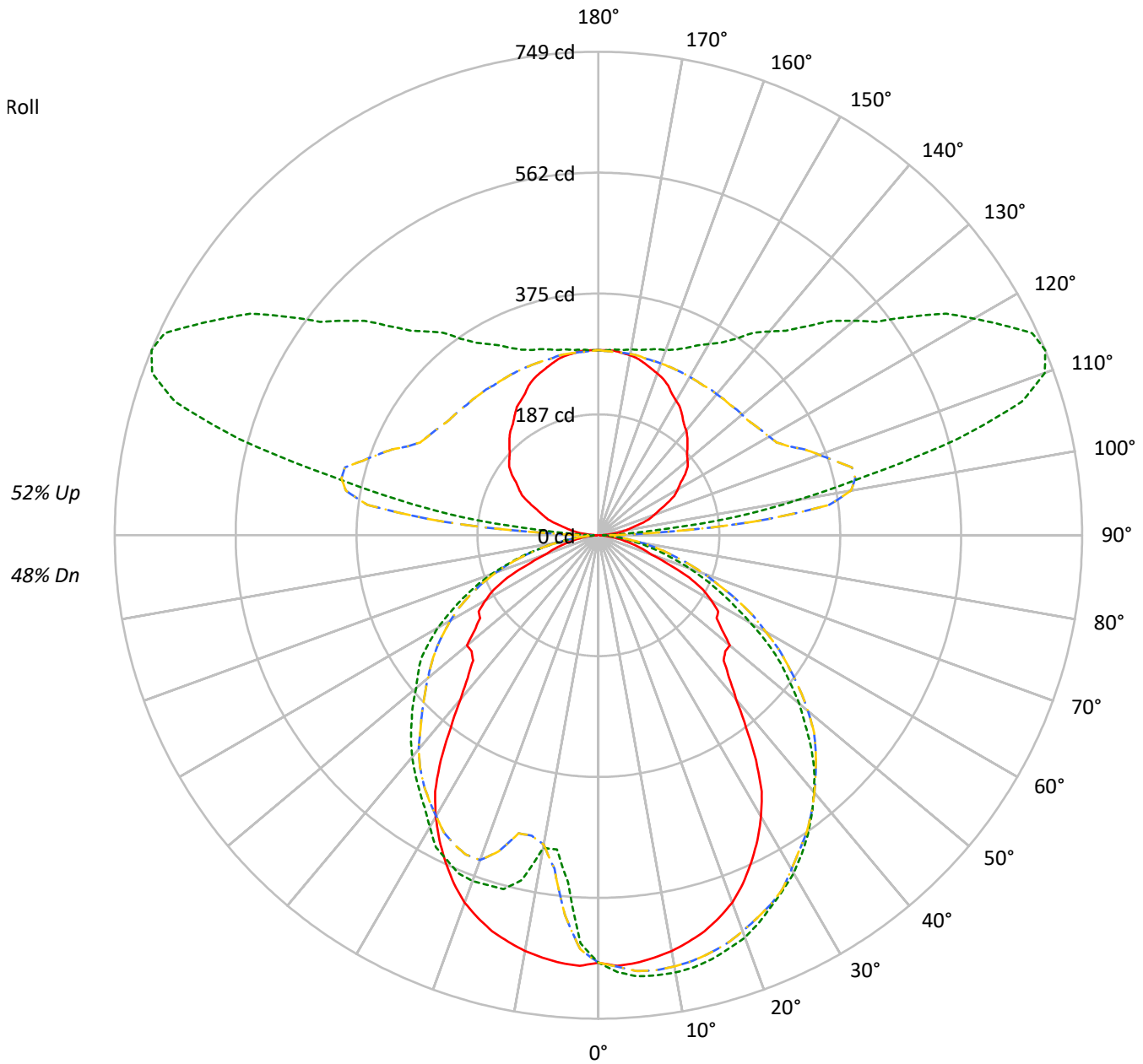
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3577.2 lumens
Efficiency: N/A
Efficacy: 126.0 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: P934286
CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - - - 90°-270° - - - 135°-315°



TEST NUMBER: P934286

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

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°	6144	6144	6144	6144
5°	6183	6202	6183	4876
10°	6135	6109	6135	4368
15°	6061	5977	6061	4991
20°	5927	5820	5927	5001
25°	5661	5591	5661	4895
30°	5319	5402	5319	4663
35°	4735	5161	4735	4407
40°	3938	4879	3938	4214
45°	3512	4548	3512	3991
50°	3723	4153	3723	3768
55°	3493	3728	3493	3640
60°	3588	3165	3588	3333
65°	3236	2617	3236	2925
70°	2226	2086	2226	2453
75°	1928	1543	1928	1847
80°	1526	1020	1526	1110
85°	828	539	828	459

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5393 cd/sqm



TEST NUMBER: P934286

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	1.7
10°-20°	169.7	4.7
20°-30°	262.3	7.3
30°-40°	313.1	8.8
40°-50°	315.0	8.8
50°-60°	274.1	7.7
60°-70°	194.3	5.4
70°-80°	102.8	2.9
80°-90°	26.7	0.7
90°-100°	139.8	3.9
100°-110°	367.6	10.3
110°-120°	381.1	10.7
120°-130°	305.7	8.5
130°-140°	239.9	6.7
140°-150°	184.1	5.1
150°-160°	132.6	3.7
160°-170°	81.1	2.3
170°-180°	27.4	0.8
0°-30°	491.8	13.7
0°-40°	804.9	22.5
0°-60°	1394.0	39.0
0°-90°	1717.8	48.0
90°-120°	888.5	24.8
90°-150°	1618.3	45.2
90°-180°	1859.0	52.0
0°-180°	3577.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	662	662	662	662	662	
5°	665	686	665	539	665	63
15°	635	680	635	568	635	179
25°	559	634	559	555	559	257
35°	425	566	425	483	425	263
45°	274	466	274	409	274	220
55°	224	344	224	336	224	206
65°	155	207	155	232	155	148
75°	59	98	59	118	59	62
85°	10	25	10	21	10	14
90°	2	7	2	7	2	2
95°	18	84	18	84	18	21
105°	66	576	66	576	66	70
115°	118	741	118	741	118	116
125°	164	590	164	590	164	145
135°	195	458	195	458	195	151
145°	226	372	226	372	226	142
155°	256	320	256	320	256	117
165°	276	298	276	298	276	78
175°	287	289	287	289	287	27
180°	287	287	287	287	287	



TEST NUMBER: P934286

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	667.7	667.7	671.5	672.8	672.8	670.9	669.0	670.9	676.5	678.4	677.7
5°	665.2	670.2	677.2	678.4	679.7	679.0	677.7	679.0	685.3	686.5	687.1
7.5°	660.2	669.6	678.4	680.2	682.1	680.2	679.7	680.9	687.1	688.4	688.4
10°	654.0	667.1	677.2	678.4	680.2	678.4	678.4	680.9	687.1	688.4	689.0
12.5°	645.2	663.3	672.8	674.0	676.5	675.8	675.3	677.7	684.1	685.3	685.3
15°	635.1	656.4	665.2	666.5	670.9	669.6	669.6	672.1	679.0	680.9	680.2
17.5°	621.4	647.7	657.7	659.6	662.8	662.1	662.8	665.2	671.5	672.8	673.4
20°	605.7	635.8	647.7	649.6	652.7	652.7	652.7	655.9	662.1	664.6	664.6
22.5°	584.4	623.3	635.8	637.1	640.8	640.8	642.0	646.4	652.0	652.7	652.7
25°	559.4	609.4	620.1	623.9	627.6	629.5	631.4	633.9	635.8	635.1	635.8
27.5°	533.0	592.0	605.7	608.2	613.3	615.1	617.7	618.2	618.9	620.7	619.5
30°	503.6	567.5	588.1	590.7	598.8	600.1	597.6	598.8	602.0	603.2	604.5
32.5°	470.5	531.2	570.0	575.6	583.2	579.5	578.8	580.7	585.7	585.7	586.9
35°	425.3	503.0	553.1	558.2	563.8	559.4	561.9	562.5	565.6	567.5	566.8
37.5°	375.8	478.6	535.6	539.3	543.7	538.1	541.8	543.7	546.2	545.0	545.0
40°	331.9	440.4	514.9	517.4	521.2	516.8	520.5	521.8	523.0	521.8	521.2
42.5°	299.4	398.4	493.0	496.1	493.6	496.7	498.0	500.5	498.6	496.1	496.1
45°	274.3	387.1	469.1	472.9	469.1	474.2	476.1	476.1	470.5	469.1	468.5
47.5°	266.2	364.5	445.3	445.3	443.5	449.7	452.9	448.5	442.9	440.9	440.9
50°	265.6	339.5	412.8	410.3	419.1	426.6	423.5	419.1	414.7	407.8	407.8
52.5°	241.2	308.8	370.8	380.2	394.0	398.4	393.4	389.0	381.4	378.4	375.8
55°	223.6	276.8	332.6	351.4	365.8	371.5	362.0	357.6	346.4	344.6	343.2
57.5°	219.9	230.5	297.6	321.3	338.9	338.3	332.6	324.5	315.0	313.2	312.6
60°	201.7	166.6	259.9	288.1	306.3	304.4	299.4	291.9	283.1	281.9	280.7
62.5°	182.9	120.9	217.3	249.3	275.0	274.3	270.0	258.7	252.5	249.3	246.8
65°	155.3	101.4	154.8	207.3	244.3	245.5	236.1	228.0	221.1	217.3	216.7
67.5°	118.4	82.7	104.6	172.9	214.8	213.6	201.7	197.9	189.1	187.3	183.5
70°	87.7	55.1	72.7	140.3	186.1	182.9	173.5	169.1	161.0	156.6	154.1
72.5°	72.7	44.5	53.2	109.0	156.6	152.8	144.7	139.7	132.8	129.1	126.6
75°	58.8	47.0	40.7	80.8	127.1	124.7	117.1	112.1	106.5	101.4	102.1
77.5°	43.2	43.8	32.6	59.5	100.9	97.1	92.7	86.5	84.0	78.9	78.9
80°	32.6	34.5	24.5	40.7	72.7	72.7	68.9	64.5	60.1	57.6	57.6
82.5°	21.9	21.9	18.1	25.7	49.5	47.6	45.1	43.8	41.4	40.1	40.1
85°	10.0	12.5	11.3	15.7	26.9	28.2	28.2	26.9	26.3	25.0	25.7
87.5°	3.2	5.6	6.9	8.8	13.8	14.4	15.0	15.0	15.0	15.7	15.7
90°	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7	7.3	7.3
92.5°	7.7	20.7	33.9	37.2	52.2	72.3	82.4	72.2	51.8	36.6	35.1
95°	18.5	42.4	66.4	72.4	128.5	203.3	240.8	214.8	163.0	124.1	119.7
97.5°	31.9	53.1	74.2	79.5	173.1	297.9	360.3	344.0	311.2	286.6	278.2
100°	42.3	61.5	80.7	85.5	189.3	327.8	397.1	398.4	400.8	402.6	392.6
102.5°	51.2	69.1	87.0	91.4	196.8	337.3	407.5	428.4	470.2	501.5	492.9
105°	66.2	81.4	96.5	100.3	202.3	338.4	406.4	453.2	546.8	617.0	612.4
107.5°	81.6	95.7	109.8	113.4	203.3	323.4	383.3	448.6	579.2	677.1	678.2
110°	92.0	104.7	117.5	120.7	201.8	310.0	364.1	437.0	583.0	692.5	697.2



TEST NUMBER: P934286

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	102.2	114.3	126.5	129.5	201.8	298.3	346.5	421.2	570.6	682.7	690.0
115°	117.6	128.8	140.0	142.8	203.7	284.9	325.5	397.4	541.3	649.3	659.5
117.5°	132.8	143.0	153.2	155.7	207.5	276.6	311.1	376.0	505.9	603.3	614.6
120°	141.7	151.3	160.8	163.3	210.6	273.8	305.3	364.6	483.3	572.4	583.4
122.5°	150.4	160.1	169.7	172.1	215.0	272.3	300.8	354.3	461.2	541.3	552.2
125°	163.6	172.4	181.2	183.4	221.0	271.0	296.1	341.5	432.3	500.3	510.3
127.5°	174.4	183.3	192.2	194.5	227.0	270.4	292.1	331.0	408.9	467.4	475.8
130°	180.2	189.8	199.3	201.7	231.4	270.8	290.5	325.2	394.6	446.6	454.4
132.5°	186.1	195.8	205.3	207.7	234.9	271.0	289.2	320.2	382.3	428.9	435.9
135°	195.0	203.7	212.5	214.6	238.7	270.8	286.8	312.8	364.8	403.9	409.8
137.5°	204.1	212.7	221.4	223.5	244.5	272.4	286.5	308.4	352.4	385.4	390.3
140°	211.6	219.5	227.5	229.5	248.0	272.7	285.1	304.1	342.1	370.6	375.2
142.5°	217.3	224.7	232.0	233.9	251.0	273.7	285.1	301.8	335.1	360.2	364.1
145°	226.2	232.6	239.0	240.6	254.8	273.8	283.2	296.8	324.1	344.6	347.5
147.5°	235.1	241.3	247.5	249.1	260.5	275.6	283.2	293.9	315.4	331.5	334.0
150°	240.8	246.4	252.1	253.5	263.4	276.6	283.2	292.2	310.4	324.0	326.1
152.5°	246.8	251.1	255.4	256.4	265.3	277.2	283.2	290.9	306.4	318.0	319.5
155°	255.6	258.8	262.0	262.7	269.6	278.6	283.2	289.4	301.7	310.9	312.0
157.5°	262.2	265.3	268.3	269.1	273.8	280.0	283.2	288.0	297.6	304.8	305.5
160°	266.7	269.0	271.4	272.0	275.7	280.7	283.2	287.3	295.5	301.7	302.1
162.5°	271.0	272.8	274.6	275.1	277.8	281.4	283.2	286.6	293.6	298.8	299.2
165°	275.9	277.5	279.2	279.5	280.8	282.3	283.2	285.6	290.6	294.3	294.7
167.5°	280.3	281.0	281.8	282.0	283.0	284.4	285.1	286.7	290.0	292.4	292.6
170°	283.2	283.9	284.7	284.9	285.0	285.1	285.1	286.7	290.0	292.4	292.4
172.5°	284.7	284.9	285.1	285.1	285.1	285.1	285.1	286.4	288.9	290.8	290.7
175°	286.8	286.8	286.8	286.8	286.3	285.4	285.1	285.9	287.6	288.8	288.8
177.5°	286.8	286.8	286.8	286.8	286.4	285.8	285.5	286.2	287.5	288.4	288.2
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934286

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	679.0	677.2	679.0	677.7	678.4	676.5	670.9	669.0	670.9	672.8	672.8
5°	687.1	685.9	687.1	687.1	686.5	685.3	679.0	677.7	679.0	679.7	678.4
7.5°	689.7	687.8	689.7	688.4	688.4	687.1	680.9	679.7	680.2	682.1	680.2
10°	689.7	687.8	689.7	689.0	688.4	687.1	680.9	678.4	678.4	680.2	678.4
12.5°	686.5	685.3	686.5	685.3	685.3	684.1	677.7	675.3	675.8	676.5	674.0
15°	681.5	679.7	681.5	680.2	680.9	679.0	672.1	669.6	669.6	670.9	666.5
17.5°	674.0	671.5	674.0	673.4	672.8	671.5	665.2	662.8	662.1	662.8	659.6
20°	665.2	663.3	665.2	664.6	664.6	662.1	655.9	652.7	652.7	652.7	649.6
22.5°	651.5	649.6	651.5	652.7	652.7	652.0	646.4	642.0	640.8	640.8	637.1
25°	635.8	633.9	635.8	635.8	635.1	635.8	633.9	631.4	629.5	627.6	623.9
27.5°	620.7	619.5	620.7	619.5	620.7	618.9	618.2	617.7	615.1	613.3	608.2
30°	605.7	604.5	605.7	604.5	603.2	602.0	598.8	597.6	600.1	598.8	590.7
32.5°	586.9	585.7	586.9	586.9	585.7	585.7	580.7	578.8	579.5	583.2	575.6
35°	567.5	565.6	567.5	566.8	567.5	565.6	562.5	561.9	559.4	563.8	558.2
37.5°	545.0	543.1	545.0	545.0	545.0	546.2	543.7	541.8	538.1	543.7	539.3
40°	521.8	519.3	521.8	521.2	521.8	523.0	521.8	520.5	516.8	521.2	517.4
42.5°	495.5	494.8	495.5	496.1	496.1	498.6	500.5	498.0	496.7	493.6	496.1
45°	467.3	466.1	467.3	468.5	469.1	470.5	476.1	476.1	474.2	469.1	472.9
47.5°	437.2	434.1	437.2	440.9	440.9	442.9	448.5	452.9	449.7	443.5	445.3
50°	405.3	405.9	405.3	407.8	407.8	414.7	419.1	423.5	426.6	419.1	410.3
52.5°	374.0	373.3	374.0	375.8	378.4	381.4	389.0	393.4	398.4	394.0	380.2
55°	342.6	343.9	342.6	343.2	344.6	346.4	357.6	362.0	371.5	365.8	351.4
57.5°	311.3	309.4	311.3	312.6	313.2	315.0	324.5	332.6	338.3	338.9	321.3
60°	275.0	272.4	275.0	280.7	281.9	283.1	291.9	299.4	304.4	306.3	288.1
62.5°	243.0	238.6	243.0	246.8	249.3	252.5	258.7	270.0	274.3	275.0	249.3
65°	209.2	207.3	209.2	216.7	217.3	221.1	228.0	236.1	245.5	244.3	207.3
67.5°	178.5	178.5	178.5	183.5	187.3	189.1	197.9	201.7	213.6	214.8	172.9
70°	150.4	149.7	150.4	154.1	156.6	161.0	169.1	173.5	182.9	186.1	140.3
72.5°	123.4	122.7	123.4	126.6	129.1	132.8	139.7	144.7	152.8	156.6	109.0
75°	99.6	98.4	99.6	102.1	101.4	106.5	112.1	117.1	124.7	127.1	80.8
77.5°	76.4	76.4	76.4	78.9	78.9	84.0	86.5	92.7	97.1	100.9	59.5
80°	57.0	56.4	57.0	57.6	57.6	60.1	64.5	68.9	72.7	72.7	40.7
82.5°	40.1	38.9	40.1	40.1	40.1	41.4	43.8	45.1	47.6	49.5	25.7
85°	25.0	25.0	25.0	25.7	25.0	26.3	26.9	28.2	28.2	26.9	15.7
87.5°	16.3	15.7	16.3	15.7	15.7	15.0	15.0	15.0	14.4	13.8	8.8
90°	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6	8.5	5.4
92.5°	29.3	23.4	29.3	35.1	36.6	51.8	72.2	82.4	72.3	52.2	37.2
95°	102.1	84.5	102.1	119.7	124.1	163.0	214.8	240.8	203.3	128.5	72.4
97.5°	244.7	211.2	244.7	278.2	286.6	311.2	344.0	360.3	297.9	173.1	79.5
100°	352.6	312.6	352.6	392.6	402.6	400.8	398.4	397.1	327.8	189.3	85.5
102.5°	458.7	424.5	458.7	492.9	501.5	470.2	428.4	407.5	337.3	196.8	91.4
105°	594.0	575.6	594.0	612.4	617.0	546.8	453.2	406.4	338.4	202.3	100.3
107.5°	682.6	687.1	682.6	678.2	677.1	579.2	448.6	383.3	323.4	203.3	113.4
110°	716.4	735.5	716.4	697.2	692.5	583.0	437.0	364.1	310.0	201.8	120.7



TEST NUMBER: P934286

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	719.5	748.9	719.5	690.0	682.7	570.6	421.2	346.5	298.3	201.8	129.5
115°	700.3	741.1	700.3	659.5	649.3	541.3	397.4	325.5	284.9	203.7	142.8
117.5°	659.9	705.2	659.9	614.6	603.3	505.9	376.0	311.1	276.6	207.5	155.7
120°	627.3	671.3	627.3	583.4	572.4	483.3	364.6	305.3	273.8	210.6	163.3
122.5°	595.6	638.9	595.6	552.2	541.3	461.2	354.3	300.8	272.3	215.0	172.1
125°	550.2	590.2	550.2	510.3	500.3	432.3	341.5	296.1	271.0	221.0	183.4
127.5°	509.5	543.2	509.5	475.8	467.4	408.9	331.0	292.1	270.4	227.0	194.5
130°	485.6	516.7	485.6	454.4	446.6	394.6	325.2	290.5	270.8	231.4	201.7
132.5°	463.7	491.7	463.7	435.9	428.9	382.3	320.2	289.2	271.0	234.9	207.7
135°	433.9	457.9	433.9	409.8	403.9	364.8	312.8	286.8	270.8	238.7	214.6
137.5°	409.9	429.6	409.9	390.3	385.4	352.4	308.4	286.5	272.4	244.5	223.5
140°	393.6	412.0	393.6	375.2	370.6	342.1	304.1	285.1	272.7	248.0	229.5
142.5°	380.0	395.8	380.0	364.1	360.2	335.1	301.8	285.1	273.7	251.0	233.9
145°	359.6	371.5	359.6	347.5	344.6	324.1	296.8	283.2	273.8	254.8	240.6
147.5°	343.9	353.8	343.9	334.0	331.5	315.4	293.9	283.2	275.6	260.5	249.1
150°	334.1	342.1	334.1	326.1	324.0	310.4	292.2	283.2	276.6	263.4	253.5
152.5°	325.6	331.7	325.6	319.5	318.0	306.4	290.9	283.2	277.2	265.3	256.4
155°	316.0	320.0	316.0	312.0	310.9	301.7	289.4	283.2	278.6	269.6	262.7
157.5°	308.3	311.1	308.3	305.5	304.8	297.6	288.0	283.2	280.0	273.8	269.1
160°	303.7	305.3	303.7	302.1	301.7	295.5	287.3	283.2	280.7	275.7	272.0
162.5°	300.7	302.2	300.7	299.2	298.8	293.6	286.6	283.2	281.4	277.8	275.1
165°	296.4	298.0	296.4	294.7	294.3	290.6	285.6	283.2	282.3	280.8	279.5
167.5°	293.3	293.9	293.3	292.6	292.4	290.0	286.7	285.1	284.4	283.0	282.0
170°	292.4	292.4	292.4	292.4	292.4	290.0	286.7	285.1	285.1	285.0	284.9
172.5°	290.1	289.5	290.1	290.7	290.8	288.9	286.4	285.1	285.1	285.1	285.1
175°	288.8	288.8	288.8	288.8	288.8	287.6	285.9	285.1	285.4	286.3	286.8
177.5°	287.6	286.8	287.6	288.2	288.4	287.5	286.2	285.5	285.8	286.4	286.8
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934286

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	671.5	667.7	667.7	661.5	658.9	657.1	654.0	644.6	642.0	639.5	643.3
5°	677.2	670.2	665.2	654.0	644.6	640.8	628.9	606.4	591.3	580.0	573.8
7.5°	678.4	669.6	660.2	642.7	620.1	610.1	573.8	532.5	521.2	511.2	504.8
10°	677.2	667.1	654.0	627.6	574.4	556.9	520.5	493.6	486.7	484.8	486.7
12.5°	672.8	663.3	645.2	601.3	526.8	514.9	493.6	477.9	476.7	479.8	496.7
15°	665.2	656.4	635.1	566.3	500.5	491.8	476.7	471.0	477.9	499.9	550.6
17.5°	657.7	647.7	621.4	531.8	480.4	474.2	463.5	474.8	513.6	543.1	560.0
20°	647.7	635.8	605.7	506.8	466.1	460.4	455.4	506.1	535.6	546.2	555.6
22.5°	635.8	623.3	584.4	489.2	451.0	446.6	449.7	523.7	535.6	543.1	551.2
25°	620.1	609.4	559.4	475.4	439.1	434.1	446.0	521.8	528.6	530.5	546.9
27.5°	605.7	592.0	533.0	462.9	424.7	422.8	449.2	513.6	518.7	520.5	538.1
30°	588.1	567.5	503.6	449.7	409.7	409.0	449.7	503.6	502.4	507.3	524.9
32.5°	570.0	531.2	470.5	433.5	395.3	394.6	445.3	488.6	487.4	494.2	507.3
35°	553.1	503.0	425.3	414.7	377.1	377.7	434.7	471.0	471.7	477.9	486.1
37.5°	535.6	478.6	375.8	394.0	359.6	359.6	420.3	454.8	453.6	455.4	466.6
40°	514.9	440.4	331.9	367.1	343.2	341.4	402.7	437.2	432.8	432.3	447.9
42.5°	493.0	398.4	299.4	331.4	324.5	321.9	381.4	415.9	407.8	409.7	429.7
45°	469.1	387.1	274.3	280.0	305.0	303.2	358.3	391.5	385.8	390.9	411.5
47.5°	445.3	364.5	266.2	232.4	284.4	283.7	332.6	367.7	364.5	369.6	391.5
50°	412.8	339.5	265.6	199.2	261.2	263.7	302.0	344.6	344.6	348.9	372.1
52.5°	370.8	308.8	241.2	180.4	234.2	241.8	275.0	324.5	325.7	330.1	350.8
55°	332.6	276.8	223.6	166.0	202.3	218.6	248.6	303.8	306.3	310.6	329.5
57.5°	297.6	230.5	219.9	149.1	172.9	188.6	225.5	283.7	285.0	288.8	306.9
60°	259.9	166.6	201.7	130.9	147.2	159.1	204.2	259.9	264.3	266.8	282.5
62.5°	217.3	120.9	182.9	118.4	134.7	137.2	186.7	237.4	243.0	244.9	254.3
65°	154.8	101.4	155.3	107.8	121.5	122.2	167.8	214.3	219.2	222.4	229.3
67.5°	104.6	82.7	118.4	97.7	111.5	112.1	149.7	187.3	194.2	196.7	201.1
70°	72.7	55.1	87.7	87.0	100.2	101.4	130.3	162.9	169.1	171.0	173.5
72.5°	53.2	44.5	72.7	78.3	88.4	89.6	110.2	135.3	141.6	143.5	144.7
75°	40.7	47.0	58.8	68.3	75.2	75.7	90.2	110.2	114.6	115.9	116.5
77.5°	32.6	43.8	43.2	55.1	61.4	60.1	70.8	85.2	88.9	88.9	88.9
80°	24.5	34.5	32.6	39.5	45.1	43.8	50.7	60.8	62.0	63.2	62.7
82.5°	18.1	21.9	21.9	25.0	30.1	28.9	33.8	39.5	39.5	39.5	40.7
85°	11.3	12.5	10.0	13.2	16.9	16.3	18.8	21.3	21.9	21.9	20.6
87.5°	6.9	5.6	3.2	5.0	7.5	7.5	8.8	9.4	8.8	8.8	8.8
90°	5.0	3.5	2.0	3.5	5.0	5.4	8.5	12.6	14.7	13.0	9.7
92.5°	33.9	20.7	7.7	20.7	33.9	37.2	52.2	72.3	82.4	72.2	51.8
95°	66.4	42.4	18.5	42.4	66.4	72.4	128.5	203.3	240.8	214.8	163.0
97.5°	74.2	53.1	31.9	53.1	74.2	79.5	173.1	297.9	360.3	344.0	311.2
100°	80.7	61.5	42.3	61.5	80.7	85.5	189.3	327.8	397.1	398.4	400.8
102.5°	87.0	69.1	51.2	69.1	87.0	91.4	196.8	337.3	407.5	428.4	470.2
105°	96.5	81.4	66.2	81.4	96.5	100.3	202.3	338.4	406.4	453.2	546.8
107.5°	109.8	95.7	81.6	95.7	109.8	113.4	203.3	323.4	383.3	448.6	579.2
110°	117.5	104.7	92.0	104.7	117.5	120.7	201.8	310.0	364.1	437.0	583.0



TEST NUMBER: P934286

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	126.5	114.3	102.2	114.3	126.5	129.5	201.8	298.3	346.5	421.2	570.6
115°	140.0	128.8	117.6	128.8	140.0	142.8	203.7	284.9	325.5	397.4	541.3
117.5°	153.2	143.0	132.8	143.0	153.2	155.7	207.5	276.6	311.1	376.0	505.9
120°	160.8	151.3	141.7	151.3	160.8	163.3	210.6	273.8	305.3	364.6	483.3
122.5°	169.7	160.1	150.4	160.1	169.7	172.1	215.0	272.3	300.8	354.3	461.2
125°	181.2	172.4	163.6	172.4	181.2	183.4	221.0	271.0	296.1	341.5	432.3
127.5°	192.2	183.3	174.4	183.3	192.2	194.5	227.0	270.4	292.1	331.0	408.9
130°	199.3	189.8	180.2	189.8	199.3	201.7	231.4	270.8	290.5	325.2	394.6
132.5°	205.3	195.8	186.1	195.8	205.3	207.7	234.9	271.0	289.2	320.2	382.3
135°	212.5	203.7	195.0	203.7	212.5	214.6	238.7	270.8	286.8	312.8	364.8
137.5°	221.4	212.7	204.1	212.7	221.4	223.5	244.5	272.4	286.5	308.4	352.4
140°	227.5	219.5	211.6	219.5	227.5	229.5	248.0	272.7	285.1	304.1	342.1
142.5°	232.0	224.7	217.3	224.7	232.0	233.9	251.0	273.7	285.1	301.8	335.1
145°	239.0	232.6	226.2	232.6	239.0	240.6	254.8	273.8	283.2	296.8	324.1
147.5°	247.5	241.3	235.1	241.3	247.5	249.1	260.5	275.6	283.2	293.9	315.4
150°	252.1	246.4	240.8	246.4	252.1	253.5	263.4	276.6	283.2	292.2	310.4
152.5°	255.4	251.1	246.8	251.1	255.4	256.4	265.3	277.2	283.2	290.9	306.4
155°	262.0	258.8	255.6	258.8	262.0	262.7	269.6	278.6	283.2	289.4	301.7
157.5°	268.3	265.3	262.2	265.3	268.3	269.1	273.8	280.0	283.2	288.0	297.6
160°	271.4	269.0	266.7	269.0	271.4	272.0	275.7	280.7	283.2	287.3	295.5
162.5°	274.6	272.8	271.0	272.8	274.6	275.1	277.8	281.4	283.2	286.6	293.6
165°	279.2	277.5	275.9	277.5	279.2	279.5	280.8	282.3	283.2	285.6	290.6
167.5°	281.8	281.0	280.3	281.0	281.8	282.0	283.0	284.4	285.1	286.7	290.0
170°	284.7	283.9	283.2	283.9	284.7	284.9	285.0	285.1	285.1	286.7	290.0
172.5°	285.1	284.9	284.7	284.9	285.1	285.1	285.1	285.1	285.1	286.4	288.9
175°	286.8	286.8	286.8	286.8	286.8	286.8	286.3	285.4	285.1	285.9	287.6
177.5°	286.8	286.8	286.8	286.8	286.8	286.8	286.4	285.8	285.5	286.2	287.5
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934286

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1	662.1
2.5°	638.9	637.1	639.5	632.7	639.5	637.1	638.9	643.3	639.5	642.0	644.6
5°	560.6	557.5	547.5	539.3	547.5	557.5	560.6	573.8	580.0	591.3	606.4
7.5°	501.1	498.6	496.1	491.1	496.1	498.6	501.1	504.8	511.2	521.2	532.5
10°	487.9	488.6	492.3	491.8	492.3	488.6	487.9	486.7	484.8	486.7	493.6
12.5°	521.8	527.4	548.1	546.9	548.1	527.4	521.8	496.7	479.8	476.7	477.9
15°	560.6	562.5	566.8	567.5	566.8	562.5	560.6	550.6	499.9	477.9	471.0
17.5°	564.4	565.0	568.2	568.2	568.2	565.0	564.4	560.0	543.1	513.6	474.8
20°	561.2	562.5	568.8	570.0	568.8	562.5	561.2	555.6	546.2	535.6	506.1
22.5°	560.0	562.5	567.5	566.8	567.5	562.5	560.0	551.2	543.1	535.6	523.7
25°	553.8	553.8	554.3	555.0	554.3	553.8	553.8	546.9	530.5	528.6	521.8
27.5°	540.6	541.8	545.5	545.0	545.5	541.8	540.6	538.1	520.5	518.7	513.6
30°	528.6	527.4	524.3	521.8	524.3	527.4	528.6	524.9	507.3	502.4	503.6
32.5°	508.7	505.5	502.4	500.5	502.4	505.5	508.7	507.3	494.2	487.4	488.6
35°	484.8	485.5	484.8	483.0	484.8	485.5	484.8	486.1	477.9	471.7	471.0
37.5°	467.9	469.1	468.5	466.1	468.5	469.1	467.9	466.6	455.4	453.6	454.8
40°	450.4	451.0	450.4	448.5	450.4	451.0	450.4	447.9	432.3	432.8	437.2
42.5°	433.5	432.8	430.9	429.7	430.9	432.8	433.5	429.7	409.7	407.8	415.9
45°	414.0	414.7	410.9	409.0	410.9	414.7	414.0	411.5	390.9	385.8	391.5
47.5°	394.6	394.6	391.5	389.6	391.5	394.6	394.6	391.5	369.6	364.5	367.7
50°	374.0	373.3	368.9	368.3	368.9	373.3	374.0	372.1	348.9	344.6	344.6
52.5°	350.2	350.2	350.8	352.0	350.8	350.2	350.2	350.8	330.1	325.7	324.5
55°	329.5	330.1	334.5	335.8	334.5	330.1	329.5	329.5	310.6	306.3	303.8
57.5°	308.2	308.2	311.3	311.3	311.3	308.2	308.2	306.9	288.8	285.0	283.7
60°	283.7	285.0	287.5	286.9	287.5	285.0	283.7	282.5	266.8	264.3	259.9
62.5°	258.1	259.4	259.9	258.7	259.9	259.4	258.1	254.3	244.9	243.0	237.4
65°	231.2	232.4	233.0	231.7	233.0	232.4	231.2	229.3	222.4	219.2	214.3
67.5°	203.6	203.0	202.3	204.8	202.3	203.0	203.6	201.1	196.7	194.2	187.3
70°	175.4	175.4	174.8	176.1	174.8	175.4	175.4	173.5	171.0	169.1	162.9
72.5°	145.3	144.7	147.2	145.3	147.2	144.7	145.3	144.7	143.5	141.6	135.3
75°	115.9	117.1	115.9	117.8	115.9	117.1	115.9	116.5	115.9	114.6	110.2
77.5°	88.4	89.6	88.4	88.4	88.4	89.6	88.4	88.9	88.9	88.9	85.2
80°	62.7	62.0	62.0	61.4	62.0	62.0	62.7	62.7	63.2	62.0	60.8
82.5°	40.1	39.5	39.5	40.7	39.5	39.5	40.1	40.7	39.5	39.5	39.5
85°	21.9	22.5	21.3	21.3	21.3	22.5	21.9	20.6	21.9	21.9	21.3
87.5°	8.1	7.5	7.5	7.5	7.5	7.5	8.1	8.8	8.8	8.8	9.4
90°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.7	13.0	14.7	12.6
92.5°	36.6	35.1	29.3	23.4	29.3	35.1	36.6	51.8	72.2	82.4	72.3
95°	124.1	119.7	102.1	84.5	102.1	119.7	124.1	163.0	214.8	240.8	203.3
97.5°	286.6	278.2	244.7	211.2	244.7	278.2	286.6	311.2	344.0	360.3	297.9
100°	402.6	392.6	352.6	312.6	352.6	392.6	402.6	400.8	398.4	397.1	327.8
102.5°	501.5	492.9	458.7	424.5	458.7	492.9	501.5	470.2	428.4	407.5	337.3
105°	617.0	612.4	594.0	575.6	594.0	612.4	617.0	546.8	453.2	406.4	338.4
107.5°	677.1	678.2	682.6	687.1	682.6	678.2	677.1	579.2	448.6	383.3	323.4
110°	692.5	697.2	716.4	735.5	716.4	697.2	692.5	583.0	437.0	364.1	310.0



TEST NUMBER: P934286

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	682.7	690.0	719.5	748.9	719.5	690.0	682.7	570.6	421.2	346.5	298.3
115°	649.3	659.5	700.3	741.1	700.3	659.5	649.3	541.3	397.4	325.5	284.9
117.5°	603.3	614.6	659.9	705.2	659.9	614.6	603.3	505.9	376.0	311.1	276.6
120°	572.4	583.4	627.3	671.3	627.3	583.4	572.4	483.3	364.6	305.3	273.8
122.5°	541.3	552.2	595.6	638.9	595.6	552.2	541.3	461.2	354.3	300.8	272.3
125°	500.3	510.3	550.2	590.2	550.2	510.3	500.3	432.3	341.5	296.1	271.0
127.5°	467.4	475.8	509.5	543.2	509.5	475.8	467.4	408.9	331.0	292.1	270.4
130°	446.6	454.4	485.6	516.7	485.6	454.4	446.6	394.6	325.2	290.5	270.8
132.5°	428.9	435.9	463.7	491.7	463.7	435.9	428.9	382.3	320.2	289.2	271.0
135°	403.9	409.8	433.9	457.9	433.9	409.8	403.9	364.8	312.8	286.8	270.8
137.5°	385.4	390.3	409.9	429.6	409.9	390.3	385.4	352.4	308.4	286.5	272.4
140°	370.6	375.2	393.6	412.0	393.6	375.2	370.6	342.1	304.1	285.1	272.7
142.5°	360.2	364.1	380.0	395.8	380.0	364.1	360.2	335.1	301.8	285.1	273.7
145°	344.6	347.5	359.6	371.5	359.6	347.5	344.6	324.1	296.8	283.2	273.8
147.5°	331.5	334.0	343.9	353.8	343.9	334.0	331.5	315.4	293.9	283.2	275.6
150°	324.0	326.1	334.1	342.1	334.1	326.1	324.0	310.4	292.2	283.2	276.6
152.5°	318.0	319.5	325.6	331.7	325.6	319.5	318.0	306.4	290.9	283.2	277.2
155°	310.9	312.0	316.0	320.0	316.0	312.0	310.9	301.7	289.4	283.2	278.6
157.5°	304.8	305.5	308.3	311.1	308.3	305.5	304.8	297.6	288.0	283.2	280.0
160°	301.7	302.1	303.7	305.3	303.7	302.1	301.7	295.5	287.3	283.2	280.7
162.5°	298.8	299.2	300.7	302.2	300.7	299.2	298.8	293.6	286.6	283.2	281.4
165°	294.3	294.7	296.4	298.0	296.4	294.7	294.3	290.6	285.6	283.2	282.3
167.5°	292.4	292.6	293.3	293.9	293.3	292.6	292.4	290.0	286.7	285.1	284.4
170°	292.4	292.4	292.4	292.4	292.4	292.4	292.4	290.0	286.7	285.1	285.1
172.5°	290.8	290.7	290.1	289.5	290.1	290.7	290.8	288.9	286.4	285.1	285.1
175°	288.8	288.8	288.8	288.8	288.8	288.8	288.8	287.6	285.9	285.1	285.4
177.5°	288.4	288.2	287.6	286.8	287.6	288.2	288.4	287.5	286.2	285.5	285.8
180°	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934286

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	662.1	662.1	662.1	662.1	662.1
2.5°	654.0	657.1	658.9	661.5	667.7
5°	628.9	640.8	644.6	654.0	665.2
7.5°	573.8	610.1	620.1	642.7	660.2
10°	520.5	556.9	574.4	627.6	654.0
12.5°	493.6	514.9	526.8	601.3	645.2
15°	476.7	491.8	500.5	566.3	635.1
17.5°	463.5	474.2	480.4	531.8	621.4
20°	455.4	460.4	466.1	506.8	605.7
22.5°	449.7	446.6	451.0	489.2	584.4
25°	446.0	434.1	439.1	475.4	559.4
27.5°	449.2	422.8	424.7	462.9	533.0
30°	449.7	409.0	409.7	449.7	503.6
32.5°	445.3	394.6	395.3	433.5	470.5
35°	434.7	377.7	377.1	414.7	425.3
37.5°	420.3	359.6	359.6	394.0	375.8
40°	402.7	341.4	343.2	367.1	331.9
42.5°	381.4	321.9	324.5	331.4	299.4
45°	358.3	303.2	305.0	280.0	274.3
47.5°	332.6	283.7	284.4	232.4	266.2
50°	302.0	263.7	261.2	199.2	265.6
52.5°	275.0	241.8	234.2	180.4	241.2
55°	248.6	218.6	202.3	166.0	223.6
57.5°	225.5	188.6	172.9	149.1	219.9
60°	204.2	159.1	147.2	130.9	201.7
62.5°	186.7	137.2	134.7	118.4	182.9
65°	167.8	122.2	121.5	107.8	155.3
67.5°	149.7	112.1	111.5	97.7	118.4
70°	130.3	101.4	100.2	87.0	87.7
72.5°	110.2	89.6	88.4	78.3	72.7
75°	90.2	75.7	75.2	68.3	58.8
77.5°	70.8	60.1	61.4	55.1	43.2
80°	50.7	43.8	45.1	39.5	32.6
82.5°	33.8	28.9	30.1	25.0	21.9
85°	18.8	16.3	16.9	13.2	10.0
87.5°	8.8	7.5	7.5	5.0	3.2
90°	8.5	5.4	5.0	3.5	2.0
92.5°	52.2	37.2	33.9	20.7	7.7
95°	128.5	72.4	66.4	42.4	18.5
97.5°	173.1	79.5	74.2	53.1	31.9
100°	189.3	85.5	80.7	61.5	42.3
102.5°	196.8	91.4	87.0	69.1	51.2
105°	202.3	100.3	96.5	81.4	66.2
107.5°	203.3	113.4	109.8	95.7	81.6
110°	201.8	120.7	117.5	104.7	92.0



TEST NUMBER: P934286

CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	201.8	129.5	126.5	114.3	102.2
115°	203.7	142.8	140.0	128.8	117.6
117.5°	207.5	155.7	153.2	143.0	132.8
120°	210.6	163.3	160.8	151.3	141.7
122.5°	215.0	172.1	169.7	160.1	150.4
125°	221.0	183.4	181.2	172.4	163.6
127.5°	227.0	194.5	192.2	183.3	174.4
130°	231.4	201.7	199.3	189.8	180.2
132.5°	234.9	207.7	205.3	195.8	186.1
135°	238.7	214.6	212.5	203.7	195.0
137.5°	244.5	223.5	221.4	212.7	204.1
140°	248.0	229.5	227.5	219.5	211.6
142.5°	251.0	233.9	232.0	224.7	217.3
145°	254.8	240.6	239.0	232.6	226.2
147.5°	260.5	249.1	247.5	241.3	235.1
150°	263.4	253.5	252.1	246.4	240.8
152.5°	265.3	256.4	255.4	251.1	246.8
155°	269.6	262.7	262.0	258.8	255.6
157.5°	273.8	269.1	268.3	265.3	262.2
160°	275.7	272.0	271.4	269.0	266.7
162.5°	277.8	275.1	274.6	272.8	271.0
165°	280.8	279.5	279.2	277.5	275.9
167.5°	283.0	282.0	281.8	281.0	280.3
170°	285.0	284.9	284.7	283.9	283.2
172.5°	285.1	285.1	285.1	284.9	284.7
175°	286.3	286.8	286.8	286.8	286.8
177.5°	286.4	286.8	286.8	286.8	286.8
180°	286.8	286.8	286.8	286.8	286.8



TEST NUMBER: P934286
 CATALOG NUMBER: SQ4-FA-050U-050D-B2750-1D-UNV-STD-W-4-5000K

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	10.92	11.76	11.89	12.75	14.05	13.71	14.56	14.69	15.54	16.84
	3H	11.39	12.15	12.38	13.14	14.46	15.05	15.80	16.03	16.80	18.12
	4H	11.58	12.30	12.58	13.30	14.63	15.48	16.20	16.48	17.20	18.53
	6H	11.70	12.36	12.71	13.36	14.71	15.76	16.42	16.77	17.42	18.77
	8H	11.70	12.33	12.72	13.35	14.69	15.83	16.46	16.85	17.48	18.82
	12H	11.67	12.27	12.69	13.28	14.65	15.86	16.46	16.88	17.48	18.84
4H	2H	11.94	12.65	12.94	13.65	14.98	14.12	14.84	15.13	15.84	17.17
	3H	12.96	13.56	13.98	14.59	15.93	15.62	16.21	16.63	17.24	18.58
	4H	13.24	13.78	14.26	14.81	16.17	16.14	16.68	17.16	17.70	19.07
	6H	13.36	13.83	14.40	14.88	16.24	16.49	16.96	17.52	18.01	19.37
	8H	13.37	13.81	14.40	14.84	16.22	16.59	17.03	17.63	18.07	19.45
	12H	13.33	13.73	14.39	14.78	16.17	16.64	17.04	17.70	18.09	19.48
8H	4H	13.69	14.12	14.72	15.16	16.54	16.26	16.70	17.29	17.74	19.11
	6H	13.95	14.31	15.00	15.39	16.76	16.69	17.05	17.75	18.13	19.50
	8H	13.99	14.31	15.05	15.37	16.77	16.83	17.15	17.90	18.22	19.61
	12H	13.97	14.25	15.04	15.31	16.75	16.93	17.21	18.00	18.27	19.70
12H	4H	13.69	14.09	14.74	15.14	16.52	16.22	16.62	17.28	17.67	19.06
	6H	14.01	14.32	15.07	15.39	16.78	16.68	17.00	17.75	18.07	19.46
	8H	14.07	14.35	15.14	15.41	16.85	16.84	17.12	17.91	18.18	19.62