

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: P935506

Luminaire Tested: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935506
REPORT IS A COMBINATION OF REPORTS P933754 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

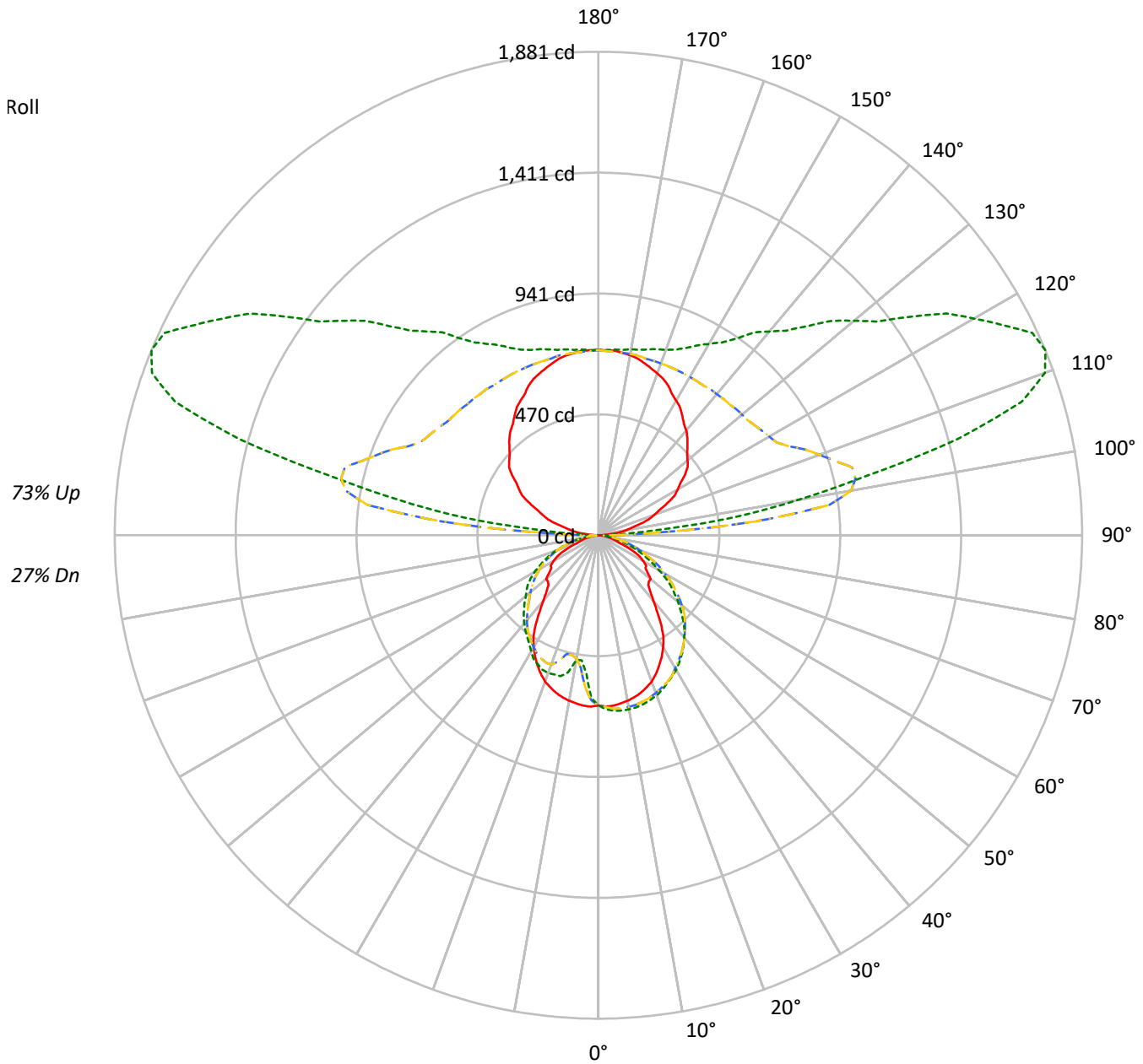
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6390.5 lumens
Efficiency: N/A
Efficacy: 134.3 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): 47.6
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: P935506
CATALOG NUMBER: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4

Luminous Intensity Polar Plot



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



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CATALOG NUMBER: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				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	102	102	102	102	91	91	91	91	71	71	71	52	52	52	35	35	35				27
1	93	88	85	81	83	79	76	73	62	60	58	46	44	43	31	30	29				23
2	84	77	71	66	75	69	64	60	54	51	48	40	38	36	27	26	25				19
3	77	68	61	55	68	61	55	50	48	43	40	35	33	30	24	22	21				16
4	70	60	52	47	62	54	47	42	42	38	34	31	28	26	21	20	18				14
5	64	53	45	40	57	48	41	36	38	33	29	28	25	22	19	17	16				12
6	59	48	40	34	53	43	36	31	34	29	25	25	22	19	17	15	14				10
7	55	43	35	30	49	38	32	27	30	26	22	23	20	17	16	14	12				9
8	50	39	31	26	45	35	28	24	28	23	19	21	18	15	15	12	11				8
9	47	35	28	23	42	32	25	21	25	21	17	19	16	14	13	11	10				7
10	44	32	25	20	39	29	23	19	23	19	15	18	14	12	12	10	9				7

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



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CATALOG NUMBER: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.8	0.9
10°-20°	169.7	2.7
20°-30°	262.3	4.1
30°-40°	313.1	4.9
40°-50°	315.0	4.9
50°-60°	274.1	4.3
60°-70°	194.3	3.0
70°-80°	102.8	1.6
80°-90°	28.4	0.4
90°-100°	351.2	5.5
100°-110°	923.4	14.4
110°-120°	957.5	15.0
120°-130°	768.0	12.0
130°-140°	602.6	9.4
140°-150°	462.5	7.2
150°-160°	333.1	5.2
160°-170°	203.8	3.2
170°-180°	68.9	1.1
0°-30°	491.8	7.7
0°-40°	804.9	12.6
0°-60°	1394.0	21.8
0°-90°	1719.4	26.9
90°-120°	2232.1	34.9
90°-150°	4065.2	63.6
90°-180°	4671.0	73.1
0°-180°	6390.5	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°	5	18	5	18	5	4
95°	46	212	46	212	46	52
105°	166	1446	166	1446	166	176
115°	295	1862	295	1862	295	292
125°	411	1483	411	1483	411	365
135°	490	1150	490	1150	490	379
145°	568	933	568	933	568	356
155°	642	804	642	804	642	295
165°	693	749	693	749	693	196
175°	721	725	721	725	721	68
180°	721	721	721	721	721	



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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°	4.9	8.7	12.6	13.5	21.3	31.6	36.7	32.6	24.5	18.4	18.4
92.5°	19.3	52.2	85.1	93.3	131.2	181.8	207.0	181.4	130.3	91.9	88.3
95°	46.4	106.6	166.8	181.8	322.9	510.9	605.0	539.9	409.7	312.0	300.8
97.5°	80.2	133.3	186.4	199.7	434.9	748.4	905.2	864.0	781.8	720.0	699.0
100°	106.4	154.6	202.7	214.7	475.7	823.6	997.6	1000.6	1006.7	1011.1	986.0
102.5°	128.6	173.5	218.5	229.7	494.4	847.3	1023.8	1076.2	1181.1	1259.8	1238.3
105°	166.3	204.5	242.5	252.0	508.3	850.0	1020.9	1138.5	1373.5	1549.9	1538.3
107.5°	205.0	240.5	276.0	284.9	510.9	812.2	962.9	1126.9	1454.8	1700.7	1703.5
110°	231.2	263.2	295.1	303.2	507.0	778.7	914.5	1097.8	1464.5	1739.5	1751.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	256.8	287.3	317.7	325.4	507.1	749.3	870.5	1058.1	1433.4	1714.8	1733.3
115°	295.4	323.6	351.8	358.8	511.8	715.7	817.7	998.4	1360.0	1631.1	1656.7
117.5°	333.7	359.3	384.9	391.3	521.4	694.8	781.5	944.6	1270.8	1515.5	1543.9
120°	355.9	380.0	404.1	410.1	529.1	687.7	767.0	916.1	1214.1	1437.7	1465.4
122.5°	377.7	402.0	426.3	432.3	540.2	684.0	755.9	890.1	1158.5	1359.8	1387.1
125°	411.1	433.2	455.3	460.8	555.2	680.9	743.7	857.8	1085.8	1256.8	1281.9
127.5°	438.1	460.5	482.8	488.4	570.1	679.1	733.6	831.4	1027.3	1174.1	1195.3
130°	452.6	476.7	500.8	506.8	581.1	680.2	729.7	816.9	991.2	1121.9	1141.4
132.5°	467.7	491.8	515.8	521.8	590.0	680.9	726.4	804.4	960.4	1077.5	1094.9
135°	489.9	511.8	533.7	539.2	599.6	680.2	720.6	786.0	916.6	1014.6	1029.7
137.5°	512.6	534.2	556.0	561.4	614.1	684.4	719.6	774.8	885.2	968.1	980.4
140°	531.4	551.4	571.4	576.5	623.1	685.2	716.2	763.9	859.4	930.9	942.5
142.5°	545.9	564.4	582.9	587.6	630.4	687.6	716.2	758.1	841.9	904.8	914.7
145°	568.2	584.3	600.5	604.5	640.1	687.6	711.3	745.6	814.2	865.6	873.2
147.5°	590.5	606.2	621.9	625.8	654.3	692.3	711.3	738.3	792.3	832.8	839.0
150°	605.0	619.1	633.3	636.9	661.7	694.8	711.3	734.1	779.7	813.9	818.9
152.5°	620.0	630.7	641.5	644.2	666.6	696.4	711.3	730.8	769.7	798.9	802.7
155°	642.2	650.2	658.1	660.1	677.2	699.9	711.3	726.8	757.8	781.0	783.5
157.5°	658.7	666.4	674.1	676.0	687.8	703.5	711.3	723.4	747.5	765.5	767.3
160°	669.8	675.7	681.8	683.3	692.7	705.1	711.3	721.6	742.2	757.8	758.8
162.5°	680.9	685.4	689.9	691.1	697.8	706.9	711.3	720.0	737.5	750.6	751.5
165°	692.9	697.0	701.2	702.2	705.3	709.3	711.3	717.6	730.0	739.4	740.4
167.5°	704.1	706.0	708.0	708.4	711.1	714.5	716.2	720.3	728.4	734.6	735.1
170°	711.3	713.3	715.3	715.7	715.9	716.1	716.2	720.3	728.4	734.6	734.6
172.5°	715.3	715.6	716.1	716.2	716.2	716.2	716.2	719.4	725.8	730.7	730.3
175°	720.6	720.6	720.6	720.6	719.1	717.1	716.2	718.2	722.3	725.3	725.3
177.5°	720.6	720.6	720.6	720.6	719.5	717.9	717.1	718.7	722.0	724.4	723.9
180°	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6



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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°	18.4	18.4	18.4	18.4	18.4	24.5	32.6	36.7	31.6	21.3	13.5
92.5°	73.6	59.0	73.6	88.3	91.9	130.3	181.4	207.0	181.8	131.2	93.3
95°	256.6	212.3	256.6	300.8	312.0	409.7	539.9	605.0	510.9	322.9	181.8
97.5°	614.8	530.5	614.8	699.0	720.0	781.8	864.0	905.2	748.4	434.9	199.7
100°	885.7	785.3	885.7	986.0	1011.1	1006.7	1000.6	997.6	823.6	475.7	214.7
102.5°	1152.3	1066.3	1152.3	1238.3	1259.8	1181.1	1076.2	1023.8	847.3	494.4	229.7
105°	1492.2	1445.9	1492.2	1538.3	1549.9	1373.5	1138.5	1020.9	850.0	508.3	252.0
107.5°	1714.7	1725.9	1714.7	1703.5	1700.7	1454.8	1126.9	962.9	812.2	510.9	284.9
110°	1799.6	1847.7	1799.6	1751.5	1739.5	1464.5	1097.8	914.5	778.7	507.0	303.2



TEST NUMBER: P935506

CATALOG NUMBER: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1807.2	1881.2	1807.2	1733.3	1714.8	1433.4	1058.1	870.5	749.3	507.1	325.4
115°	1759.3	1861.8	1759.3	1656.7	1631.1	1360.0	998.4	817.7	715.7	511.8	358.8
117.5°	1657.7	1771.3	1657.7	1543.9	1515.5	1270.8	944.6	781.5	694.8	521.4	391.3
120°	1575.8	1686.2	1575.8	1465.4	1437.7	1214.1	916.1	767.0	687.7	529.1	410.1
122.5°	1496.0	1605.0	1496.0	1387.1	1359.8	1158.5	890.1	755.9	684.0	540.2	432.3
125°	1382.2	1482.6	1382.2	1281.9	1256.8	1085.8	857.8	743.7	680.9	555.2	460.8
127.5°	1280.0	1364.7	1280.0	1195.3	1174.1	1027.3	831.4	733.6	679.1	570.1	488.4
130°	1219.7	1298.0	1219.7	1141.4	1121.9	991.2	816.9	729.7	680.2	581.1	506.8
132.5°	1165.0	1235.0	1165.0	1094.9	1077.5	960.4	804.4	726.4	680.9	590.0	521.8
135°	1090.1	1150.4	1090.1	1029.7	1014.6	916.6	786.0	720.6	680.2	599.6	539.2
137.5°	1029.9	1079.3	1029.9	980.4	968.1	885.2	774.8	719.6	684.4	614.1	561.4
140°	988.6	1034.9	988.6	942.5	930.9	859.4	763.9	716.2	685.2	623.1	576.5
142.5°	954.5	994.2	954.5	914.7	904.8	841.9	758.1	716.2	687.6	630.4	587.6
145°	903.3	933.3	903.3	873.2	865.6	814.2	745.6	711.3	687.6	640.1	604.5
147.5°	863.9	888.8	863.9	839.0	832.8	792.3	738.3	711.3	692.3	654.3	625.8
150°	839.2	859.4	839.2	818.9	813.9	779.7	734.1	711.3	694.8	661.7	636.9
152.5°	817.9	833.2	817.9	802.7	798.9	769.7	730.8	711.3	696.4	666.6	644.2
155°	793.6	803.7	793.6	783.5	781.0	757.8	726.8	711.3	699.9	677.2	660.1
157.5°	774.4	781.5	774.4	767.3	765.5	747.5	723.4	711.3	703.5	687.8	676.0
160°	762.9	767.0	762.9	758.8	757.8	742.2	721.6	711.3	705.1	692.7	683.3
162.5°	755.4	759.2	755.4	751.5	750.6	737.5	720.0	711.3	706.9	697.8	691.1
165°	744.5	748.6	744.5	740.4	739.4	730.0	717.6	711.3	709.3	705.3	702.2
167.5°	736.7	738.4	736.7	735.1	734.6	728.4	720.3	716.2	714.5	711.1	708.4
170°	734.6	734.6	734.6	734.6	734.6	728.4	720.3	716.2	716.1	715.9	715.7
172.5°	728.8	727.3	728.8	730.3	730.7	725.8	719.4	716.2	716.2	716.2	716.2
175°	725.3	725.3	725.3	725.3	725.3	722.3	718.2	716.2	717.1	719.1	720.6
177.5°	722.3	720.6	722.3	723.9	724.4	722.0	718.7	717.1	717.9	719.5	720.6
180°	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6



TEST NUMBER: P935506

CATALOG NUMBER: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4

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°	12.6	8.7	4.9	8.7	12.6	13.5	21.3	31.6	36.7	32.6	24.5
92.5°	85.1	52.2	19.3	52.2	85.1	93.3	131.2	181.8	207.0	181.4	130.3
95°	166.8	106.6	46.4	106.6	166.8	181.8	322.9	510.9	605.0	539.9	409.7
97.5°	186.4	133.3	80.2	133.3	186.4	199.7	434.9	748.4	905.2	864.0	781.8
100°	202.7	154.6	106.4	154.6	202.7	214.7	475.7	823.6	997.6	1000.6	1006.7
102.5°	218.5	173.5	128.6	173.5	218.5	229.7	494.4	847.3	1023.8	1076.2	1181.1
105°	242.5	204.5	166.3	204.5	242.5	252.0	508.3	850.0	1020.9	1138.5	1373.5
107.5°	276.0	240.5	205.0	240.5	276.0	284.9	510.9	812.2	962.9	1126.9	1454.8
110°	295.1	263.2	231.2	263.2	295.1	303.2	507.0	778.7	914.5	1097.8	1464.5



TEST NUMBER: P935506

CATALOG NUMBER: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	317.7	287.3	256.8	287.3	317.7	325.4	507.1	749.3	870.5	1058.1	1433.4
115°	351.8	323.6	295.4	323.6	351.8	358.8	511.8	715.7	817.7	998.4	1360.0
117.5°	384.9	359.3	333.7	359.3	384.9	391.3	521.4	694.8	781.5	944.6	1270.8
120°	404.1	380.0	355.9	380.0	404.1	410.1	529.1	687.7	767.0	916.1	1214.1
122.5°	426.3	402.0	377.7	402.0	426.3	432.3	540.2	684.0	755.9	890.1	1158.5
125°	455.3	433.2	411.1	433.2	455.3	460.8	555.2	680.9	743.7	857.8	1085.8
127.5°	482.8	460.5	438.1	460.5	482.8	488.4	570.1	679.1	733.6	831.4	1027.3
130°	500.8	476.7	452.6	476.7	500.8	506.8	581.1	680.2	729.7	816.9	991.2
132.5°	515.8	491.8	467.7	491.8	515.8	521.8	590.0	680.9	726.4	804.4	960.4
135°	533.7	511.8	489.9	511.8	533.7	539.2	599.6	680.2	720.6	786.0	916.6
137.5°	556.0	534.2	512.6	534.2	556.0	561.4	614.1	684.4	719.6	774.8	885.2
140°	571.4	551.4	531.4	551.4	571.4	576.5	623.1	685.2	716.2	763.9	859.4
142.5°	582.9	564.4	545.9	564.4	582.9	587.6	630.4	687.6	716.2	758.1	841.9
145°	600.5	584.3	568.2	584.3	600.5	604.5	640.1	687.6	711.3	745.6	814.2
147.5°	621.9	606.2	590.5	606.2	621.9	625.8	654.3	692.3	711.3	738.3	792.3
150°	633.3	619.1	605.0	619.1	633.3	636.9	661.7	694.8	711.3	734.1	779.7
152.5°	641.5	630.7	620.0	630.7	641.5	644.2	666.6	696.4	711.3	730.8	769.7
155°	658.1	650.2	642.2	650.2	658.1	660.1	677.2	699.9	711.3	726.8	757.8
157.5°	674.1	666.4	658.7	666.4	674.1	676.0	687.8	703.5	711.3	723.4	747.5
160°	681.8	675.7	669.8	675.7	681.8	683.3	692.7	705.1	711.3	721.6	742.2
162.5°	689.9	685.4	680.9	685.4	689.9	691.1	697.8	706.9	711.3	720.0	737.5
165°	701.2	697.0	692.9	697.0	701.2	702.2	705.3	709.3	711.3	717.6	730.0
167.5°	708.0	706.0	704.1	706.0	708.0	708.4	711.1	714.5	716.2	720.3	728.4
170°	715.3	713.3	711.3	713.3	715.3	715.7	715.9	716.1	716.2	720.3	728.4
172.5°	716.1	715.6	715.3	715.6	716.1	716.2	716.2	716.2	716.2	719.4	725.8
175°	720.6	720.6	720.6	720.6	720.6	720.6	719.1	717.1	716.2	718.2	722.3
177.5°	720.6	720.6	720.6	720.6	720.6	720.6	719.5	717.9	717.1	718.7	722.0
180°	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6



TEST NUMBER: P935506
 CATALOG NUMBER: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4

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°	18.4	18.4	18.4	18.4	18.4	18.4	18.4	24.5	32.6	36.7	31.6
92.5°	91.9	88.3	73.6	59.0	73.6	88.3	91.9	130.3	181.4	207.0	181.8
95°	312.0	300.8	256.6	212.3	256.6	300.8	312.0	409.7	539.9	605.0	510.9
97.5°	720.0	699.0	614.8	530.5	614.8	699.0	720.0	781.8	864.0	905.2	748.4
100°	1011.1	986.0	885.7	785.3	885.7	986.0	1011.1	1006.7	1000.6	997.6	823.6
102.5°	1259.8	1238.3	1152.3	1066.3	1152.3	1238.3	1259.8	1181.1	1076.2	1023.8	847.3
105°	1549.9	1538.3	1492.2	1445.9	1492.2	1538.3	1549.9	1373.5	1138.5	1020.9	850.0
107.5°	1700.7	1703.5	1714.7	1725.9	1714.7	1703.5	1700.7	1454.8	1126.9	962.9	812.2
110°	1739.5	1751.5	1799.6	1847.7	1799.6	1751.5	1739.5	1464.5	1097.8	914.5	778.7



TEST NUMBER: P935506

CATALOG NUMBER: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1714.8	1733.3	1807.2	1881.2	1807.2	1733.3	1714.8	1433.4	1058.1	870.5	749.3
115°	1631.1	1656.7	1759.3	1861.8	1759.3	1656.7	1631.1	1360.0	998.4	817.7	715.7
117.5°	1515.5	1543.9	1657.7	1771.3	1657.7	1543.9	1515.5	1270.8	944.6	781.5	694.8
120°	1437.7	1465.4	1575.8	1686.2	1575.8	1465.4	1437.7	1214.1	916.1	767.0	687.7
122.5°	1359.8	1387.1	1496.0	1605.0	1496.0	1387.1	1359.8	1158.5	890.1	755.9	684.0
125°	1256.8	1281.9	1382.2	1482.6	1382.2	1281.9	1256.8	1085.8	857.8	743.7	680.9
127.5°	1174.1	1195.3	1280.0	1364.7	1280.0	1195.3	1174.1	1027.3	831.4	733.6	679.1
130°	1121.9	1141.4	1219.7	1298.0	1219.7	1141.4	1121.9	991.2	816.9	729.7	680.2
132.5°	1077.5	1094.9	1165.0	1235.0	1165.0	1094.9	1077.5	960.4	804.4	726.4	680.9
135°	1014.6	1029.7	1090.1	1150.4	1090.1	1029.7	1014.6	916.6	786.0	720.6	680.2
137.5°	968.1	980.4	1029.9	1079.3	1029.9	980.4	968.1	885.2	774.8	719.6	684.4
140°	930.9	942.5	988.6	1034.9	988.6	942.5	930.9	859.4	763.9	716.2	685.2
142.5°	904.8	914.7	954.5	994.2	954.5	914.7	904.8	841.9	758.1	716.2	687.6
145°	865.6	873.2	903.3	933.3	903.3	873.2	865.6	814.2	745.6	711.3	687.6
147.5°	832.8	839.0	863.9	888.8	863.9	839.0	832.8	792.3	738.3	711.3	692.3
150°	813.9	818.9	839.2	859.4	839.2	818.9	813.9	779.7	734.1	711.3	694.8
152.5°	798.9	802.7	817.9	833.2	817.9	802.7	798.9	769.7	730.8	711.3	696.4
155°	781.0	783.5	793.6	803.7	793.6	783.5	781.0	757.8	726.8	711.3	699.9
157.5°	765.5	767.3	774.4	781.5	774.4	767.3	765.5	747.5	723.4	711.3	703.5
160°	757.8	758.8	762.9	767.0	762.9	758.8	757.8	742.2	721.6	711.3	705.1
162.5°	750.6	751.5	755.4	759.2	755.4	751.5	750.6	737.5	720.0	711.3	706.9
165°	739.4	740.4	744.5	748.6	744.5	740.4	739.4	730.0	717.6	711.3	709.3
167.5°	734.6	735.1	736.7	738.4	736.7	735.1	734.6	728.4	720.3	716.2	714.5
170°	734.6	734.6	734.6	734.6	734.6	734.6	734.6	728.4	720.3	716.2	716.1
172.5°	730.7	730.3	728.8	727.3	728.8	730.3	730.7	725.8	719.4	716.2	716.2
175°	725.3	725.3	725.3	725.3	725.3	725.3	725.3	722.3	718.2	716.2	717.1
177.5°	724.4	723.9	722.3	720.6	722.3	723.9	724.4	722.0	718.7	717.1	717.9
180°	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6	720.6



TEST NUMBER: P935506

CATALOG NUMBER: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4

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°	21.3	13.5	12.6	8.7	4.9
92.5°	131.2	93.3	85.1	52.2	19.3
95°	322.9	181.8	166.8	106.6	46.4
97.5°	434.9	199.7	186.4	133.3	80.2
100°	475.7	214.7	202.7	154.6	106.4
102.5°	494.4	229.7	218.5	173.5	128.6
105°	508.3	252.0	242.5	204.5	166.3
107.5°	510.9	284.9	276.0	240.5	205.0
110°	507.0	303.2	295.1	263.2	231.2



TEST NUMBER: P935506

CATALOG NUMBER: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	507.1	325.4	317.7	287.3	256.8
115°	511.8	358.8	351.8	323.6	295.4
117.5°	521.4	391.3	384.9	359.3	333.7
120°	529.1	410.1	404.1	380.0	355.9
122.5°	540.2	432.3	426.3	402.0	377.7
125°	555.2	460.8	455.3	433.2	411.1
127.5°	570.1	488.4	482.8	460.5	438.1
130°	581.1	506.8	500.8	476.7	452.6
132.5°	590.0	521.8	515.8	491.8	467.7
135°	599.6	539.2	533.7	511.8	489.9
137.5°	614.1	561.4	556.0	534.2	512.6
140°	623.1	576.5	571.4	551.4	531.4
142.5°	630.4	587.6	582.9	564.4	545.9
145°	640.1	604.5	600.5	584.3	568.2
147.5°	654.3	625.8	621.9	606.2	590.5
150°	661.7	636.9	633.3	619.1	605.0
152.5°	666.6	644.2	641.5	630.7	620.0
155°	677.2	660.1	658.1	650.2	642.2
157.5°	687.8	676.0	674.1	666.4	658.7
160°	692.7	683.3	681.8	675.7	669.8
162.5°	697.8	691.1	689.9	685.4	680.9
165°	705.3	702.2	701.2	697.0	692.9
167.5°	711.1	708.4	708.0	706.0	704.1
170°	715.9	715.7	715.3	713.3	711.3
172.5°	716.2	716.2	716.1	715.6	715.3
175°	719.1	720.6	720.6	720.6	720.6
177.5°	719.5	720.6	720.6	720.6	720.6
180°	720.6	720.6	720.6	720.6	720.6



TEST NUMBER: P935506
 CATALOG NUMBER: SQ4-FA-125U-050D-B50-1D-UNV-STD-W-4

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	8.45	9.13	9.58	10.26	11.82	11.24	11.93	12.38	13.05	14.62
	3H	8.91	9.52	10.05	10.66	12.24	12.57	13.18	13.71	14.31	15.89
	4H	9.09	9.68	10.24	10.81	12.40	12.99	13.58	14.14	14.71	16.30
	6H	9.20	9.74	10.36	10.87	12.47	13.26	13.80	14.42	14.93	16.53
	8H	9.20	9.71	10.36	10.86	12.45	13.33	13.84	14.49	14.99	16.58
	12H	9.16	9.65	10.33	10.79	12.41	13.36	13.84	14.52	14.98	16.60
4H	2H	9.45	10.03	10.61	11.17	12.75	11.63	12.22	12.79	13.35	14.94
	3H	10.46	10.94	11.62	12.10	13.70	13.11	13.60	14.27	14.76	16.36
	4H	10.73	11.17	11.89	12.32	13.94	13.63	14.07	14.79	15.22	16.84
	6H	10.84	11.23	12.01	12.40	14.00	13.97	14.35	15.14	15.53	17.13
	8H	10.84	11.20	12.01	12.36	13.99	14.07	14.43	15.24	15.59	17.21
	12H	10.80	11.13	11.99	12.30	13.93	14.11	14.44	15.30	15.61	17.24
8H	4H	11.16	11.52	12.33	12.68	14.31	13.74	14.09	14.91	15.26	16.88
	6H	11.42	11.71	12.61	12.91	14.54	14.16	14.45	15.35	15.66	17.28
	8H	11.46	11.71	12.65	12.89	14.54	14.30	14.56	15.50	15.74	17.38
	12H	11.43	11.66	12.63	12.84	14.51	14.39	14.61	15.59	15.79	17.47
12H	4H	11.16	11.48	12.34	12.65	14.29	13.69	14.02	14.88	15.19	16.82
	6H	11.47	11.73	12.67	12.91	14.55	14.15	14.41	15.35	15.59	17.23
	8H	11.53	11.76	12.73	12.94	14.61	14.30	14.53	15.50	15.71	17.38