

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: P935810

Luminaire Tested: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935810
REPORT IS A COMBINATION OF REPORTS P933770 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

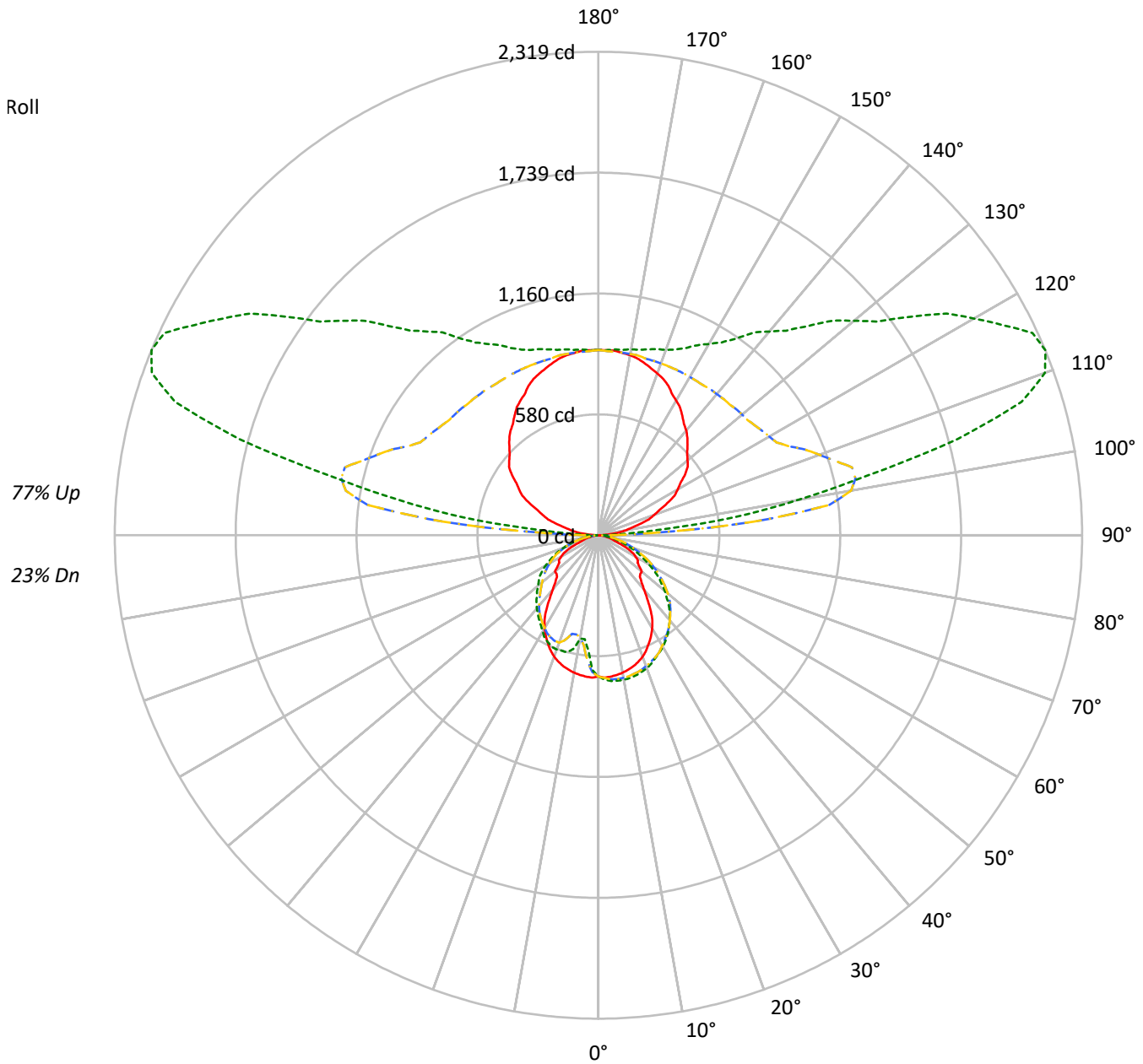
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7519.9 lumens
Efficiency: N/A
Efficacy: 135.3 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): 55.6
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: P935810
CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

Luminous Intensity Polar Plot



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



TEST NUMBER: P935810

CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

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	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	27	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	23	23	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	19	19	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	16	16	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	14	14	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	12	12	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	11	11	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	10	10	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	9	9	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	8	8	8	6

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6289	6289	6289	6289
5°	6329	6348	6329	4991
10°	6280	6253	6280	4470
15°	6204	6118	6204	5108
20°	6067	5957	6067	5119
25°	5794	5723	5794	5011
30°	5445	5529	5445	4773
35°	4847	5283	4847	4510
40°	4031	4993	4031	4313
45°	3595	4655	3595	4085
50°	3812	4251	3812	3857
55°	3575	3816	3575	3726
60°	3673	3241	3673	3412
65°	3313	2678	3313	2994
70°	2280	2134	2280	2510
75°	1974	1579	1974	1891
80°	1563	1043	1563	1135
85°	845	552	845	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5521 cd/sqm



TEST NUMBER: P935810

CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	61.2	0.8
10°-20°	173.7	2.3
20°-30°	268.5	3.6
30°-40°	320.5	4.3
40°-50°	322.4	4.3
50°-60°	280.5	3.7
60°-70°	198.9	2.6
70°-80°	105.2	1.4
80°-90°	29.6	0.4
90°-100°	433.1	5.8
100°-110°	1138.6	15.1
110°-120°	1180.6	15.7
120°-130°	947.0	12.6
130°-140°	743.0	9.9
140°-150°	570.3	7.6
150°-160°	410.7	5.5
160°-170°	251.3	3.3
170°-180°	84.9	1.1
0°-30°	503.4	6.7
0°-40°	823.9	11.0
0°-60°	1426.8	19.0
0°-90°	1760.5	23.4
90°-120°	2752.2	36.6
90°-150°	5012.5	66.7
90°-180°	5759.0	76.6
0°-180°	7519.9	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	678	678	678	678	678	
5°	681	702	681	552	681	65
15°	650	696	650	581	650	183
25°	572	649	572	568	572	263
35°	435	579	435	494	435	269
45°	281	477	281	419	281	225
55°	229	352	229	344	229	210
65°	159	212	159	237	159	152
75°	60	101	60	121	60	63
85°	10	26	10	22	10	14
90°	6	23	6	23	6	5
95°	57	262	57	262	57	64
105°	205	1783	205	1783	205	217
115°	364	2296	364	2296	364	360
125°	507	1828	507	1828	507	450
135°	604	1418	604	1418	604	467
145°	701	1151	701	1151	701	439
155°	792	991	792	991	792	364
165°	854	923	854	923	854	241
175°	888	894	888	894	888	84
180°	888	888	888	888	888	



TEST NUMBER: P935810

CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	683.4	683.4	687.3	688.6	688.6	686.7	684.8	686.7	692.4	694.3	693.7
5°	680.9	686.0	693.1	694.3	695.7	695.0	693.7	695.0	701.4	702.7	703.3
7.5°	675.8	685.4	694.3	696.3	698.2	696.3	695.7	696.9	703.3	704.6	704.6
10°	669.4	682.8	693.1	694.3	696.3	694.3	694.3	696.9	703.3	704.6	705.2
12.5°	660.4	679.0	688.6	689.8	692.4	691.8	691.2	693.7	700.2	701.4	701.4
15°	650.1	671.9	680.9	682.2	686.7	685.4	685.4	687.9	695.0	696.9	696.3
17.5°	636.0	663.0	673.2	675.1	678.4	677.7	678.4	680.9	687.3	688.6	689.3
20°	620.0	650.7	663.0	664.9	668.1	668.1	668.1	671.3	677.7	680.3	680.3
22.5°	598.2	637.9	650.7	652.1	655.9	655.9	657.2	661.6	667.4	668.1	668.1
25°	572.5	623.8	634.7	638.6	642.4	644.3	646.3	648.8	650.7	650.1	650.7
27.5°	545.6	605.9	620.0	622.5	627.7	629.6	632.2	632.8	633.4	635.4	634.1
30°	515.5	580.9	602.0	604.6	612.9	614.2	611.6	612.9	616.1	617.4	618.7
32.5°	481.5	543.7	583.4	589.2	596.9	593.1	592.4	594.3	599.5	599.5	600.8
35°	435.4	514.8	566.1	571.3	577.0	572.5	575.1	575.7	579.0	580.9	580.2
37.5°	384.7	489.9	548.2	552.0	556.5	550.8	554.6	556.5	559.1	557.8	557.8
40°	339.8	450.8	527.0	529.6	533.4	529.0	532.8	534.1	535.4	534.1	533.4
42.5°	306.5	407.7	504.6	507.8	505.2	508.4	509.7	512.3	510.3	507.8	507.8
45°	280.8	396.3	480.2	484.0	480.2	485.4	487.3	487.3	481.5	480.2	479.5
47.5°	272.5	373.1	455.8	455.8	453.9	460.3	463.6	459.1	453.3	451.3	451.3
50°	271.9	347.5	422.6	420.0	429.0	436.6	433.5	429.0	424.5	417.4	417.4
52.5°	246.8	316.1	379.5	389.2	403.2	407.7	402.7	398.2	390.4	387.3	384.7
55°	228.9	283.4	340.4	359.6	374.5	380.2	370.5	366.1	354.6	352.7	351.3
57.5°	225.0	235.9	304.6	328.9	346.8	346.3	340.4	332.1	322.5	320.5	320.0
60°	206.5	170.6	266.1	294.9	313.5	311.6	306.5	298.8	289.8	288.5	287.3
62.5°	187.2	123.7	222.5	255.2	281.4	280.8	276.4	264.8	258.4	255.2	252.6
65°	159.0	103.8	158.4	212.2	250.1	251.3	241.7	233.4	226.3	222.5	221.8
67.5°	121.2	84.6	107.1	177.0	219.9	218.6	206.5	202.6	193.6	191.7	187.9
70°	89.8	56.4	74.4	143.6	190.4	187.2	177.6	173.1	164.8	160.3	157.7
72.5°	74.4	45.5	54.5	111.6	160.3	156.4	148.1	143.0	135.9	132.1	129.5
75°	60.2	48.1	41.7	82.7	130.1	127.6	119.9	114.7	109.0	103.8	104.5
77.5°	44.3	44.8	33.4	60.9	103.2	99.4	94.9	88.5	85.9	80.8	80.8
80°	33.4	35.3	25.0	41.7	74.4	74.4	70.6	66.1	61.6	59.0	59.0
82.5°	22.5	22.5	18.5	26.3	50.7	48.8	46.2	44.8	42.4	41.0	41.0
85°	10.2	12.8	11.6	16.1	27.5	28.9	28.9	27.5	27.0	25.6	26.3
87.5°	3.3	5.7	7.1	9.0	14.1	14.7	15.4	15.4	15.4	16.1	16.1
90°	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.2	30.2	22.7	22.7
92.5°	23.8	64.3	105.0	115.1	161.8	224.0	255.2	223.6	160.6	113.3	108.8
95°	57.3	131.4	205.6	224.2	398.1	630.0	746.0	665.7	505.1	384.6	370.9
97.5°	98.9	164.4	229.9	246.3	536.2	922.9	1116.2	1065.5	963.9	887.8	861.8
100°	131.2	190.5	249.9	264.7	586.5	1015.6	1230.1	1233.8	1241.3	1246.8	1215.8
102.5°	158.6	214.0	269.4	283.3	609.6	1044.7	1262.3	1326.9	1456.3	1553.3	1526.8
105°	205.2	252.1	298.9	310.7	626.7	1048.0	1258.7	1403.6	1693.6	1911.0	1896.8
107.5°	252.9	296.6	340.3	351.2	629.9	1001.4	1187.2	1389.4	1793.7	2097.1	2100.5
110°	285.0	324.5	364.0	373.9	625.1	960.0	1127.5	1353.6	1805.7	2144.8	2159.6



TEST NUMBER: P935810

CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	316.6	354.3	392.0	401.3	625.3	924.0	1073.3	1304.7	1767.4	2114.4	2137.1
115°	364.3	399.0	433.7	442.4	631.1	882.6	1008.3	1231.1	1676.9	2011.2	2042.9
117.5°	411.5	443.0	474.6	482.4	642.8	856.7	963.6	1164.7	1567.0	1868.7	1903.8
120°	438.8	468.5	498.2	505.6	652.3	847.9	945.7	1129.4	1497.0	1772.7	1806.7
122.5°	465.7	495.6	525.6	533.1	666.0	843.4	932.0	1097.5	1428.5	1676.7	1710.3
125°	506.9	534.1	561.5	568.2	684.5	839.6	917.1	1057.6	1338.8	1549.7	1580.7
127.5°	540.2	567.8	595.3	602.2	702.9	837.4	904.6	1025.3	1266.7	1447.8	1473.9
130°	558.1	587.7	617.4	624.8	716.5	838.7	899.8	1007.2	1222.2	1383.3	1407.4
132.5°	576.6	606.3	635.9	643.4	727.4	839.6	895.6	991.8	1184.2	1328.5	1350.1
135°	604.0	631.1	658.0	664.8	739.4	838.7	888.4	969.0	1130.1	1250.9	1269.6
137.5°	632.0	658.8	685.5	692.2	757.2	844.0	887.3	955.3	1091.6	1193.8	1209.0
140°	655.3	680.0	704.7	710.8	768.2	844.8	883.1	941.9	1059.5	1147.8	1162.0
142.5°	673.2	696.0	718.7	724.5	777.3	847.8	883.1	934.8	1038.1	1115.7	1127.9
145°	700.7	720.5	740.3	745.3	789.3	847.9	877.1	919.4	1003.9	1067.3	1076.6
147.5°	728.0	747.4	766.7	771.6	806.8	853.7	877.1	910.4	976.8	1026.7	1034.4
150°	746.0	763.5	780.9	785.3	815.9	856.7	877.1	905.2	961.4	1003.5	1009.7
152.5°	764.4	777.7	790.9	794.2	821.9	858.7	877.1	901.1	949.1	985.1	989.7
155°	791.9	801.7	811.5	813.9	835.0	863.1	877.1	896.2	934.4	963.0	966.1
157.5°	812.1	821.7	831.1	833.5	848.1	867.5	877.1	891.9	921.6	943.9	946.1
160°	825.8	833.2	840.7	842.5	854.1	869.5	877.1	889.8	915.3	934.3	935.5
162.5°	839.6	845.1	850.6	852.1	860.4	871.6	877.1	887.8	909.3	925.4	926.6
165°	854.5	859.4	864.5	865.8	869.6	874.6	877.1	884.8	900.2	911.6	912.9
167.5°	868.1	870.5	872.9	873.5	876.7	881.0	883.1	888.1	898.2	905.7	906.3
170°	877.1	879.5	881.9	882.5	882.7	883.0	883.1	888.1	898.2	905.7	905.7
172.5°	881.9	882.4	883.0	883.1	883.1	883.1	883.1	887.1	895.0	900.9	900.5
175°	888.4	888.4	888.4	888.4	886.6	884.2	883.1	885.5	890.6	894.4	894.4
177.5°	888.4	888.4	888.4	888.4	887.1	885.3	884.3	886.3	890.2	893.2	892.6
180°	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4



TEST NUMBER: P935810

CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	695.0	693.1	695.0	693.7	694.3	692.4	686.7	684.8	686.7	688.6	688.6
5°	703.3	702.1	703.3	703.3	702.7	701.4	695.0	693.7	695.0	695.7	694.3
7.5°	705.9	704.0	705.9	704.6	704.6	703.3	696.9	695.7	696.3	698.2	696.3
10°	705.9	704.0	705.9	705.2	704.6	703.3	696.9	694.3	694.3	696.3	694.3
12.5°	702.7	701.4	702.7	701.4	701.4	700.2	693.7	691.2	691.8	692.4	689.8
15°	697.6	695.7	697.6	696.3	696.9	695.0	687.9	685.4	685.4	686.7	682.2
17.5°	689.8	687.3	689.8	689.3	688.6	687.3	680.9	678.4	677.7	678.4	675.1
20°	680.9	679.0	680.9	680.3	680.3	677.7	671.3	668.1	668.1	668.1	664.9
22.5°	666.8	664.9	666.8	668.1	668.1	667.4	661.6	657.2	655.9	655.9	652.1
25°	650.7	648.8	650.7	650.7	650.1	650.7	648.8	646.3	644.3	642.4	638.6
27.5°	635.4	634.1	635.4	634.1	635.4	633.4	632.8	632.2	629.6	627.7	622.5
30°	620.0	618.7	620.0	618.7	617.4	616.1	612.9	611.6	614.2	612.9	604.6
32.5°	600.8	599.5	600.8	600.8	599.5	599.5	594.3	592.4	593.1	596.9	589.2
35°	580.9	579.0	580.9	580.2	580.9	579.0	575.7	575.1	572.5	577.0	571.3
37.5°	557.8	555.9	557.8	557.8	557.8	559.1	556.5	554.6	550.8	556.5	552.0
40°	534.1	531.5	534.1	533.4	534.1	535.4	534.1	532.8	529.0	533.4	529.6
42.5°	507.2	506.5	507.2	507.8	507.8	510.3	512.3	509.7	508.4	505.2	507.8
45°	478.3	477.0	478.3	479.5	480.2	481.5	487.3	487.3	485.4	480.2	484.0
47.5°	447.5	444.3	447.5	451.3	451.3	453.3	459.1	463.6	460.3	453.9	455.8
50°	414.8	415.5	414.8	417.4	417.4	424.5	429.0	433.5	436.6	429.0	420.0
52.5°	382.8	382.1	382.8	384.7	387.3	390.4	398.2	402.7	407.7	403.2	389.2
55°	350.7	352.0	350.7	351.3	352.7	354.6	366.1	370.5	380.2	374.5	359.6
57.5°	318.6	316.7	318.6	320.0	320.5	322.5	332.1	340.4	346.3	346.8	328.9
60°	281.4	278.9	281.4	287.3	288.5	289.8	298.8	306.5	311.6	313.5	294.9
62.5°	248.8	244.3	248.8	252.6	255.2	258.4	264.8	276.4	280.8	281.4	255.2
65°	214.1	212.2	214.1	221.8	222.5	226.3	233.4	241.7	251.3	250.1	212.2
67.5°	182.7	182.7	182.7	187.9	191.7	193.6	202.6	206.5	218.6	219.9	177.0
70°	153.9	153.2	153.9	157.7	160.3	164.8	173.1	177.6	187.2	190.4	143.6
72.5°	126.3	125.6	126.3	129.5	132.1	135.9	143.0	148.1	156.4	160.3	111.6
75°	101.9	100.7	101.9	104.5	103.8	109.0	114.7	119.9	127.6	130.1	82.7
77.5°	78.2	78.2	78.2	80.8	80.8	85.9	88.5	94.9	99.4	103.2	60.9
80°	58.3	57.7	58.3	59.0	59.0	61.6	66.1	70.6	74.4	74.4	41.7
82.5°	41.0	39.8	41.0	41.0	41.0	42.4	44.8	46.2	48.8	50.7	26.3
85°	25.6	25.6	25.6	26.3	25.6	27.0	27.5	28.9	28.9	27.5	16.1
87.5°	16.6	16.1	16.6	16.1	16.1	15.4	15.4	15.4	14.7	14.1	9.0
90°	22.7	22.7	22.7	22.7	22.7	30.2	40.2	45.3	39.0	26.3	16.7
92.5°	90.7	72.8	90.7	108.8	113.3	160.6	223.6	255.2	224.0	161.8	115.1
95°	316.3	261.8	316.3	370.9	384.6	505.1	665.7	746.0	630.0	398.1	224.2
97.5°	758.0	654.1	758.0	861.8	887.8	963.9	1065.5	1116.2	922.9	536.2	246.3
100°	1092.1	968.3	1092.1	1215.8	1246.8	1241.3	1233.8	1230.1	1015.6	586.5	264.7
102.5°	1420.8	1314.8	1420.8	1526.8	1553.3	1456.3	1326.9	1262.3	1044.7	609.6	283.3
105°	1839.8	1782.8	1839.8	1896.8	1911.0	1693.6	1403.6	1258.7	1048.0	626.7	310.7
107.5°	2114.3	2128.1	2114.3	2100.5	2097.1	1793.7	1389.4	1187.2	1001.4	629.9	351.2
110°	2219.0	2278.3	2219.0	2159.6	2144.8	1805.7	1353.6	1127.5	960.0	625.1	373.9



TEST NUMBER: P935810

CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2228.3	2319.4	2228.3	2137.1	2114.4	1767.4	1304.7	1073.3	924.0	625.3	401.3
115°	2169.3	2295.6	2169.3	2042.9	2011.2	1676.9	1231.1	1008.3	882.6	631.1	442.4
117.5°	2043.9	2184.1	2043.9	1903.8	1868.7	1567.0	1164.7	963.6	856.7	642.8	482.4
120°	1943.0	2079.2	1943.0	1806.7	1772.7	1497.0	1129.4	945.7	847.9	652.3	505.6
122.5°	1844.7	1979.0	1844.7	1710.3	1676.7	1428.5	1097.5	932.0	843.4	666.0	533.1
125°	1704.4	1828.2	1704.4	1580.7	1549.7	1338.8	1057.6	917.1	839.6	684.5	568.2
127.5°	1578.3	1682.7	1578.3	1473.9	1447.8	1266.7	1025.3	904.6	837.4	702.9	602.2
130°	1503.9	1600.3	1503.9	1407.4	1383.3	1222.2	1007.2	899.8	838.7	716.5	624.8
132.5°	1436.4	1522.8	1436.4	1350.1	1328.5	1184.2	991.8	895.6	839.6	727.4	643.4
135°	1344.0	1418.5	1344.0	1269.6	1250.9	1130.1	969.0	888.4	838.7	739.4	664.8
137.5°	1270.0	1330.8	1270.0	1209.0	1193.8	1091.6	955.3	887.3	844.0	757.2	692.2
140°	1219.0	1276.0	1219.0	1162.0	1147.8	1059.5	941.9	883.1	844.8	768.2	710.8
142.5°	1176.9	1225.9	1176.9	1127.9	1115.7	1038.1	934.8	883.1	847.8	777.3	724.5
145°	1113.7	1150.8	1113.7	1076.6	1067.3	1003.9	919.4	877.1	847.9	789.3	745.3
147.5°	1065.2	1096.0	1065.2	1034.4	1026.7	976.8	910.4	877.1	853.7	806.8	771.6
150°	1034.7	1059.5	1034.7	1009.7	1003.5	961.4	905.2	877.1	856.7	815.9	785.3
152.5°	1008.6	1027.3	1008.6	989.7	985.1	949.1	901.1	877.1	858.7	821.9	794.2
155°	978.6	991.0	978.6	966.1	963.0	934.4	896.2	877.1	863.1	835.0	813.9
157.5°	954.8	963.6	954.8	946.1	943.9	921.6	891.9	877.1	867.5	848.1	833.5
160°	940.6	945.7	940.6	935.5	934.3	915.3	889.8	877.1	869.5	854.1	842.5
162.5°	931.3	936.1	931.3	926.6	925.4	909.3	887.8	877.1	871.6	860.4	852.1
165°	918.0	923.0	918.0	912.9	911.6	900.2	884.8	877.1	874.6	869.6	865.8
167.5°	908.4	910.5	908.4	906.3	905.7	898.2	888.1	883.1	881.0	876.7	873.5
170°	905.7	905.7	905.7	905.7	905.7	898.2	888.1	883.1	883.0	882.7	882.5
172.5°	898.6	896.8	898.6	900.5	900.9	895.0	887.1	883.1	883.1	883.1	883.1
175°	894.4	894.4	894.4	894.4	894.4	890.6	885.5	883.1	884.2	886.6	888.4
177.5°	890.5	888.4	890.5	892.6	893.2	890.2	886.3	884.3	885.3	887.1	888.4
180°	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4



TEST NUMBER: P935810

CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	687.3	683.4	683.4	677.0	674.5	672.5	669.4	659.7	657.2	654.6	658.5
5°	693.1	686.0	680.9	669.4	659.7	655.9	643.7	620.6	605.2	593.7	587.3
7.5°	694.3	685.4	675.8	657.8	634.7	624.5	587.3	545.0	533.4	523.2	516.7
10°	693.1	682.8	669.4	642.4	587.9	570.0	532.8	505.2	498.2	496.3	498.2
12.5°	688.6	679.0	660.4	615.5	539.2	527.0	505.2	489.2	487.9	491.1	508.4
15°	680.9	671.9	650.1	579.6	512.3	503.3	487.9	482.1	489.2	511.7	563.6
17.5°	673.2	663.0	636.0	544.3	491.8	485.4	474.5	486.0	525.7	555.9	573.2
20°	663.0	650.7	620.0	518.7	477.0	471.2	466.1	518.1	548.2	559.1	568.7
22.5°	650.7	637.9	598.2	500.8	461.7	457.2	460.3	536.0	548.2	555.9	564.2
25°	634.7	623.8	572.5	486.6	449.4	444.3	456.5	534.1	541.1	543.0	559.7
27.5°	620.0	605.9	545.6	473.8	434.7	432.8	459.7	525.7	530.9	532.8	550.8
30°	602.0	580.9	515.5	460.3	419.3	418.6	460.3	515.5	514.2	519.3	537.3
32.5°	583.4	543.7	481.5	443.7	404.6	403.9	455.8	500.1	498.8	505.8	519.3
35°	566.1	514.8	435.4	424.5	385.9	386.6	444.9	482.1	482.8	489.2	497.5
37.5°	548.2	489.9	384.7	403.2	368.1	368.1	430.2	465.5	464.2	466.1	477.6
40°	527.0	450.8	339.8	375.7	351.3	349.4	412.2	447.5	443.0	442.4	458.4
42.5°	504.6	407.7	306.5	339.2	332.1	329.5	390.4	425.7	417.4	419.3	439.9
45°	480.2	396.3	280.8	286.6	312.2	310.3	366.7	400.8	394.9	400.1	421.2
47.5°	455.8	373.1	272.5	237.9	291.1	290.4	340.4	376.4	373.1	378.3	400.8
50°	422.6	347.5	271.9	203.9	267.4	269.9	309.1	352.7	352.7	357.2	380.9
52.5°	379.5	316.1	246.8	184.6	239.8	247.5	281.4	332.1	333.4	337.9	359.1
55°	340.4	283.4	228.9	169.9	207.1	223.8	254.5	311.0	313.5	318.0	337.3
57.5°	304.6	235.9	225.0	152.6	177.0	193.0	230.8	290.4	291.7	295.6	314.1
60°	266.1	170.6	206.5	134.0	150.7	162.8	209.0	266.1	270.5	273.1	289.2
62.5°	222.5	123.7	187.2	121.2	137.9	140.4	191.1	243.0	248.8	250.7	260.3
65°	158.4	103.8	159.0	110.3	124.4	125.0	171.8	219.3	224.4	227.6	234.7
67.5°	107.1	84.6	121.2	100.0	114.1	114.7	153.2	191.7	198.8	201.3	205.8
70°	74.4	56.4	89.8	89.1	102.6	103.8	133.4	166.7	173.1	175.0	177.6
72.5°	54.5	45.5	74.4	80.1	90.4	91.7	112.8	138.5	144.9	146.8	148.1
75°	41.7	48.1	60.2	69.9	77.0	77.5	92.3	112.8	117.3	118.6	119.2
77.5°	33.4	44.8	44.3	56.4	62.8	61.6	72.5	87.2	91.0	91.0	91.0
80°	25.0	35.3	33.4	40.4	46.2	44.8	51.9	62.2	63.5	64.7	64.1
82.5°	18.5	22.5	22.5	25.6	30.8	29.5	34.6	40.4	40.4	40.4	41.7
85°	11.6	12.8	10.2	13.5	17.3	16.6	19.2	21.8	22.5	22.5	21.1
87.5°	7.1	5.7	3.3	5.2	7.6	7.6	9.0	9.7	9.0	9.0	9.0
90°	15.5	10.7	5.9	10.7	15.5	16.7	26.3	39.0	45.3	40.2	30.2
92.5°	105.0	64.3	23.8	64.3	105.0	115.1	161.8	224.0	255.2	223.6	160.6
95°	205.6	131.4	57.3	131.4	205.6	224.2	398.1	630.0	746.0	665.7	505.1
97.5°	229.9	164.4	98.9	164.4	229.9	246.3	536.2	922.9	1116.2	1065.5	963.9
100°	249.9	190.5	131.2	190.5	249.9	264.7	586.5	1015.6	1230.1	1233.8	1241.3
102.5°	269.4	214.0	158.6	214.0	269.4	283.3	609.6	1044.7	1262.3	1326.9	1456.3
105°	298.9	252.1	205.2	252.1	298.9	310.7	626.7	1048.0	1258.7	1403.6	1693.6
107.5°	340.3	296.6	252.9	296.6	340.3	351.2	629.9	1001.4	1187.2	1389.4	1793.7
110°	364.0	324.5	285.0	324.5	364.0	373.9	625.1	960.0	1127.5	1353.6	1805.7



TEST NUMBER: P935810

CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	392.0	354.3	316.6	354.3	392.0	401.3	625.3	924.0	1073.3	1304.7	1767.4
115°	433.7	399.0	364.3	399.0	433.7	442.4	631.1	882.6	1008.3	1231.1	1676.9
117.5°	474.6	443.0	411.5	443.0	474.6	482.4	642.8	856.7	963.6	1164.7	1567.0
120°	498.2	468.5	438.8	468.5	498.2	505.6	652.3	847.9	945.7	1129.4	1497.0
122.5°	525.6	495.6	465.7	495.6	525.6	533.1	666.0	843.4	932.0	1097.5	1428.5
125°	561.5	534.1	506.9	534.1	561.5	568.2	684.5	839.6	917.1	1057.6	1338.8
127.5°	595.3	567.8	540.2	567.8	595.3	602.2	702.9	837.4	904.6	1025.3	1266.7
130°	617.4	587.7	558.1	587.7	617.4	624.8	716.5	838.7	899.8	1007.2	1222.2
132.5°	635.9	606.3	576.6	606.3	635.9	643.4	727.4	839.6	895.6	991.8	1184.2
135°	658.0	631.1	604.0	631.1	658.0	664.8	739.4	838.7	888.4	969.0	1130.1
137.5°	685.5	658.8	632.0	658.8	685.5	692.2	757.2	844.0	887.3	955.3	1091.6
140°	704.7	680.0	655.3	680.0	704.7	710.8	768.2	844.8	883.1	941.9	1059.5
142.5°	718.7	696.0	673.2	696.0	718.7	724.5	777.3	847.8	883.1	934.8	1038.1
145°	740.3	720.5	700.7	720.5	740.3	745.3	789.3	847.9	877.1	919.4	1003.9
147.5°	766.7	747.4	728.0	747.4	766.7	771.6	806.8	853.7	877.1	910.4	976.8
150°	780.9	763.5	746.0	763.5	780.9	785.3	815.9	856.7	877.1	905.2	961.4
152.5°	790.9	777.7	764.4	777.7	790.9	794.2	821.9	858.7	877.1	901.1	949.1
155°	811.5	801.7	791.9	801.7	811.5	813.9	835.0	863.1	877.1	896.2	934.4
157.5°	831.1	821.7	812.1	821.7	831.1	833.5	848.1	867.5	877.1	891.9	921.6
160°	840.7	833.2	825.8	833.2	840.7	842.5	854.1	869.5	877.1	889.8	915.3
162.5°	850.6	845.1	839.6	845.1	850.6	852.1	860.4	871.6	877.1	887.8	909.3
165°	864.5	859.4	854.5	859.4	864.5	865.8	869.6	874.6	877.1	884.8	900.2
167.5°	872.9	870.5	868.1	870.5	872.9	873.5	876.7	881.0	883.1	888.1	898.2
170°	881.9	879.5	877.1	879.5	881.9	882.5	882.7	883.0	883.1	888.1	898.2
172.5°	883.0	882.4	881.9	882.4	883.0	883.1	883.1	883.1	883.1	887.1	895.0
175°	888.4	888.4	888.4	888.4	888.4	888.4	886.6	884.2	883.1	885.5	890.6
177.5°	888.4	888.4	888.4	888.4	888.4	888.4	887.1	885.3	884.3	886.3	890.2
180°	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4



TEST NUMBER: P935810
 CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7	677.7
2.5°	654.0	652.1	654.6	647.6	654.6	652.1	654.0	658.5	654.6	657.2	659.7
5°	573.8	570.6	560.4	552.0	560.4	570.6	573.8	587.3	593.7	605.2	620.6
7.5°	512.9	510.3	507.8	502.7	507.8	510.3	512.9	516.7	523.2	533.4	545.0
10°	499.4	500.1	503.9	503.3	503.9	500.1	499.4	498.2	496.3	498.2	505.2
12.5°	534.1	539.9	561.0	559.7	561.0	539.9	534.1	508.4	491.1	487.9	489.2
15°	573.8	575.7	580.2	580.9	580.2	575.7	573.8	563.6	511.7	489.2	482.1
17.5°	577.7	578.3	581.5	581.5	581.5	578.3	577.7	573.2	555.9	525.7	486.0
20°	574.5	575.7	582.2	583.4	582.2	575.7	574.5	568.7	559.1	548.2	518.1
22.5°	573.2	575.7	580.9	580.2	580.9	575.7	573.2	564.2	555.9	548.2	536.0
25°	566.8	566.8	567.4	568.1	567.4	566.8	566.8	559.7	543.0	541.1	534.1
27.5°	553.3	554.6	558.4	557.8	558.4	554.6	553.3	550.8	532.8	530.9	525.7
30°	541.1	539.9	536.6	534.1	536.6	539.9	541.1	537.3	519.3	514.2	515.5
32.5°	520.6	517.4	514.2	512.3	514.2	517.4	520.6	519.3	505.8	498.8	500.1
35°	496.3	496.9	496.3	494.3	496.3	496.9	496.3	497.5	489.2	482.8	482.1
37.5°	479.0	480.2	479.5	477.0	479.5	480.2	479.0	477.6	466.1	464.2	465.5
40°	461.0	461.7	461.0	459.1	461.0	461.7	461.0	458.4	442.4	443.0	447.5
42.5°	443.7	443.0	441.1	439.9	441.1	443.0	443.7	439.9	419.3	417.4	425.7
45°	423.8	424.5	420.5	418.6	420.5	424.5	423.8	421.2	400.1	394.9	400.8
47.5°	403.9	403.9	400.8	398.7	400.8	403.9	403.9	400.8	378.3	373.1	376.4
50°	382.8	382.1	377.6	377.0	377.6	382.1	382.8	380.9	357.2	352.7	352.7
52.5°	358.4	358.4	359.1	360.3	359.1	358.4	358.4	359.1	337.9	333.4	332.1
55°	337.3	337.9	342.3	343.7	342.3	337.9	337.3	337.3	318.0	313.5	311.0
57.5°	315.5	315.5	318.6	318.6	318.6	315.5	315.5	314.1	295.6	291.7	290.4
60°	290.4	291.7	294.3	293.7	294.3	291.7	290.4	289.2	273.1	270.5	266.1
62.5°	264.1	265.5	266.1	264.8	266.1	265.5	264.1	260.3	250.7	248.8	243.0
65°	236.6	237.9	238.5	237.2	238.5	237.9	236.6	234.7	227.6	224.4	219.3
67.5°	208.4	207.7	207.1	209.7	207.1	207.7	208.4	205.8	201.3	198.8	191.7
70°	179.5	179.5	178.9	180.2	178.9	179.5	179.5	177.6	175.0	173.1	166.7
72.5°	148.8	148.1	150.7	148.8	150.7	148.1	148.8	148.1	146.8	144.9	138.5
75°	118.6	119.9	118.6	120.6	118.6	119.9	118.6	119.2	118.6	117.3	112.8
77.5°	90.4	91.7	90.4	90.4	90.4	91.7	90.4	91.0	91.0	91.0	87.2
80°	64.1	63.5	63.5	62.8	63.5	63.5	64.1	64.1	64.7	63.5	62.2
82.5°	41.0	40.4	40.4	41.7	40.4	40.4	41.0	41.7	40.4	40.4	40.4
85°	22.5	23.0	21.8	21.8	21.8	23.0	22.5	21.1	22.5	22.5	21.8
87.5°	8.3	7.6	7.6	7.6	7.6	7.6	8.3	9.0	9.0	9.0	9.7
90°	22.7	22.7	22.7	22.7	22.7	22.7	22.7	30.2	40.2	45.3	39.0
92.5°	113.3	108.8	90.7	72.8	90.7	108.8	113.3	160.6	223.6	255.2	224.0
95°	384.6	370.9	316.3	261.8	316.3	370.9	384.6	505.1	665.7	746.0	630.0
97.5°	887.8	861.8	758.0	654.1	758.0	861.8	887.8	963.9	1065.5	1116.2	922.9
100°	1246.8	1215.8	1092.1	968.3	1092.1	1215.8	1246.8	1241.3	1233.8	1230.1	1015.6
102.5°	1553.3	1526.8	1420.8	1314.8	1420.8	1526.8	1553.3	1456.3	1326.9	1262.3	1044.7
105°	1911.0	1896.8	1839.8	1782.8	1839.8	1896.8	1911.0	1693.6	1403.6	1258.7	1048.0
107.5°	2097.1	2100.5	2114.3	2128.1	2114.3	2100.5	2097.1	1793.7	1389.4	1187.2	1001.4
110°	2144.8	2159.6	2219.0	2278.3	2219.0	2159.6	2144.8	1805.7	1353.6	1127.5	960.0



TEST NUMBER: P935810

CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2114.4	2137.1	2228.3	2319.4	2228.3	2137.1	2114.4	1767.4	1304.7	1073.3	924.0
115°	2011.2	2042.9	2169.3	2295.6	2169.3	2042.9	2011.2	1676.9	1231.1	1008.3	882.6
117.5°	1868.7	1903.8	2043.9	2184.1	2043.9	1903.8	1868.7	1567.0	1164.7	963.6	856.7
120°	1772.7	1806.7	1943.0	2079.2	1943.0	1806.7	1772.7	1497.0	1129.4	945.7	847.9
122.5°	1676.7	1710.3	1844.7	1979.0	1844.7	1710.3	1676.7	1428.5	1097.5	932.0	843.4
125°	1549.7	1580.7	1704.4	1828.2	1704.4	1580.7	1549.7	1338.8	1057.6	917.1	839.6
127.5°	1447.8	1473.9	1578.3	1682.7	1578.3	1473.9	1447.8	1266.7	1025.3	904.6	837.4
130°	1383.3	1407.4	1503.9	1600.3	1503.9	1407.4	1383.3	1222.2	1007.2	899.8	838.7
132.5°	1328.5	1350.1	1436.4	1522.8	1436.4	1350.1	1328.5	1184.2	991.8	895.6	839.6
135°	1250.9	1269.6	1344.0	1418.5	1344.0	1269.6	1250.9	1130.1	969.0	888.4	838.7
137.5°	1193.8	1209.0	1270.0	1330.8	1270.0	1209.0	1193.8	1091.6	955.3	887.3	844.0
140°	1147.8	1162.0	1219.0	1276.0	1219.0	1162.0	1147.8	1059.5	941.9	883.1	844.8
142.5°	1115.7	1127.9	1176.9	1225.9	1176.9	1127.9	1115.7	1038.1	934.8	883.1	847.8
145°	1067.3	1076.6	1113.7	1150.8	1113.7	1076.6	1067.3	1003.9	919.4	877.1	847.9
147.5°	1026.7	1034.4	1065.2	1096.0	1065.2	1034.4	1026.7	976.8	910.4	877.1	853.7
150°	1003.5	1009.7	1034.7	1059.5	1034.7	1009.7	1003.5	961.4	905.2	877.1	856.7
152.5°	985.1	989.7	1008.6	1027.3	1008.6	989.7	985.1	949.1	901.1	877.1	858.7
155°	963.0	966.1	978.6	991.0	978.6	966.1	963.0	934.4	896.2	877.1	863.1
157.5°	943.9	946.1	954.8	963.6	954.8	946.1	943.9	921.6	891.9	877.1	867.5
160°	934.3	935.5	940.6	945.7	940.6	935.5	934.3	915.3	889.8	877.1	869.5
162.5°	925.4	926.6	931.3	936.1	931.3	926.6	925.4	909.3	887.8	877.1	871.6
165°	911.6	912.9	918.0	923.0	918.0	912.9	911.6	900.2	884.8	877.1	874.6
167.5°	905.7	906.3	908.4	910.5	908.4	906.3	905.7	898.2	888.1	883.1	881.0
170°	905.7	905.7	905.7	905.7	905.7	905.7	905.7	898.2	888.1	883.1	883.0
172.5°	900.9	900.5	898.6	896.8	898.6	900.5	900.9	895.0	887.1	883.1	883.1
175°	894.4	894.4	894.4	894.4	894.4	894.4	894.4	890.6	885.5	883.1	884.2
177.5°	893.2	892.6	890.5	888.4	890.5	892.6	893.2	890.2	886.3	884.3	885.3
180°	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4	888.4



TEST NUMBER: P935810

CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	677.7	677.7	677.7	677.7	677.7
2.5°	669.4	672.5	674.5	677.0	683.4
5°	643.7	655.9	659.7	669.4	680.9
7.5°	587.3	624.5	634.7	657.8	675.8
10°	532.8	570.0	587.9	642.4	669.4
12.5°	505.2	527.0	539.2	615.5	660.4
15°	487.9	503.3	512.3	579.6	650.1
17.5°	474.5	485.4	491.8	544.3	636.0
20°	466.1	471.2	477.0	518.7	620.0
22.5°	460.3	457.2	461.7	500.8	598.2
25°	456.5	444.3	449.4	486.6	572.5
27.5°	459.7	432.8	434.7	473.8	545.6
30°	460.3	418.6	419.3	460.3	515.5
32.5°	455.8	403.9	404.6	443.7	481.5
35°	444.9	386.6	385.9	424.5	435.4
37.5°	430.2	368.1	368.1	403.2	384.7
40°	412.2	349.4	351.3	375.7	339.8
42.5°	390.4	329.5	332.1	339.2	306.5
45°	366.7	310.3	312.2	286.6	280.8
47.5°	340.4	290.4	291.1	237.9	272.5
50°	309.1	269.9	267.4	203.9	271.9
52.5°	281.4	247.5	239.8	184.6	246.8
55°	254.5	223.8	207.1	169.9	228.9
57.5°	230.8	193.0	177.0	152.6	225.0
60°	209.0	162.8	150.7	134.0	206.5
62.5°	191.1	140.4	137.9	121.2	187.2
65°	171.8	125.0	124.4	110.3	159.0
67.5°	153.2	114.7	114.1	100.0	121.2
70°	133.4	103.8	102.6	89.1	89.8
72.5°	112.8	91.7	90.4	80.1	74.4
75°	92.3	77.5	77.0	69.9	60.2
77.5°	72.5	61.6	62.8	56.4	44.3
80°	51.9	44.8	46.2	40.4	33.4
82.5°	34.6	29.5	30.8	25.6	22.5
85°	19.2	16.6	17.3	13.5	10.2
87.5°	9.0	7.6	7.6	5.2	3.3
90°	26.3	16.7	15.5	10.7	5.9
92.5°	161.8	115.1	105.0	64.3	23.8
95°	398.1	224.2	205.6	131.4	57.3
97.5°	536.2	246.3	229.9	164.4	98.9
100°	586.5	264.7	249.9	190.5	131.2
102.5°	609.6	283.3	269.4	214.0	158.6
105°	626.7	310.7	298.9	252.1	205.2
107.5°	629.9	351.2	340.3	296.6	252.9
110°	625.1	373.9	364.0	324.5	285.0



TEST NUMBER: P935810

CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-UNV-STD-W-4

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	625.3	401.3	392.0	354.3	316.6
115°	631.1	442.4	433.7	399.0	364.3
117.5°	642.8	482.4	474.6	443.0	411.5
120°	652.3	505.6	498.2	468.5	438.8
122.5°	666.0	533.1	525.6	495.6	465.7
125°	684.5	568.2	561.5	534.1	506.9
127.5°	702.9	602.2	595.3	567.8	540.2
130°	716.5	624.8	617.4	587.7	558.1
132.5°	727.4	643.4	635.9	606.3	576.6
135°	739.4	664.8	658.0	631.1	604.0
137.5°	757.2	692.2	685.5	658.8	632.0
140°	768.2	710.8	704.7	680.0	655.3
142.5°	777.3	724.5	718.7	696.0	673.2
145°	789.3	745.3	740.3	720.5	700.7
147.5°	806.8	771.6	766.7	747.4	728.0
150°	815.9	785.3	780.9	763.5	746.0
152.5°	821.9	794.2	790.9	777.7	764.4
155°	835.0	813.9	811.5	801.7	791.9
157.5°	848.1	833.5	831.1	821.7	812.1
160°	854.1	842.5	840.7	833.2	825.8
162.5°	860.4	852.1	850.6	845.1	839.6
165°	869.6	865.8	864.5	859.4	854.5
167.5°	876.7	873.5	872.9	870.5	868.1
170°	882.7	882.5	881.9	879.5	877.1
172.5°	883.1	883.1	883.0	882.4	881.9
175°	886.6	888.4	888.4	888.4	888.4
177.5°	887.1	888.4	888.4	888.4	888.4
180°	888.4	888.4	888.4	888.4	888.4



TEST NUMBER: P935810
 CATALOG NUMBER: SQ4-FA-150U-050D-830-1D-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	7.97	8.64	9.13	9.78	11.39	10.77	11.43	11.93	12.58	14.18
	3H	8.43	9.03	9.60	10.18	11.80	12.09	12.68	13.25	13.84	15.46
	4H	8.62	9.18	9.79	10.33	11.96	12.52	13.08	13.69	14.23	15.86
	6H	8.73	9.24	9.91	10.40	12.03	12.78	13.30	13.96	14.46	16.09
	8H	8.72	9.21	9.90	10.38	12.01	12.85	13.34	14.03	14.51	16.14
	12H	8.68	9.15	9.87	10.32	11.97	12.88	13.35	14.06	14.51	16.16
4H	2H	8.97	9.54	10.15	10.69	12.32	11.16	11.72	12.34	12.87	14.50
	3H	9.98	10.45	11.16	11.63	13.27	12.63	13.10	13.82	14.28	15.92
	4H	10.25	10.68	11.43	11.85	13.50	13.15	13.58	14.33	14.74	16.40
	6H	10.36	10.73	11.55	11.92	13.57	13.49	13.86	14.68	15.05	16.70
	8H	10.36	10.71	11.55	11.89	13.55	13.59	13.94	14.78	15.11	16.78
	12H	10.32	10.64	11.53	11.82	13.49	13.63	13.95	14.84	15.13	16.80
8H	4H	10.68	11.03	11.87	12.21	13.87	13.26	13.60	14.44	14.78	16.44
	6H	10.93	11.22	12.14	12.44	14.10	13.68	13.96	14.88	15.18	16.84
	8H	10.97	11.22	12.19	12.42	14.10	13.82	14.07	15.03	15.27	16.95
	12H	10.95	11.17	12.17	12.36	14.07	13.90	14.12	15.12	15.32	17.03
12H	4H	10.68	10.99	11.88	12.18	13.85	13.21	13.52	14.42	14.71	16.38
	6H	10.99	11.24	12.20	12.44	14.12	13.67	13.92	14.88	15.12	16.80
	8H	11.05	11.27	12.27	12.46	14.17	13.82	14.04	15.04	15.23	16.94