

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: P935015

Luminaire Tested: SQ4-FA-100U-050D-835-1D-UNV-STD-W-6

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935015
REPORT IS A COMBINATION OF REPORTS P933739 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-050D-835-1D-UNV-STD-W-6
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

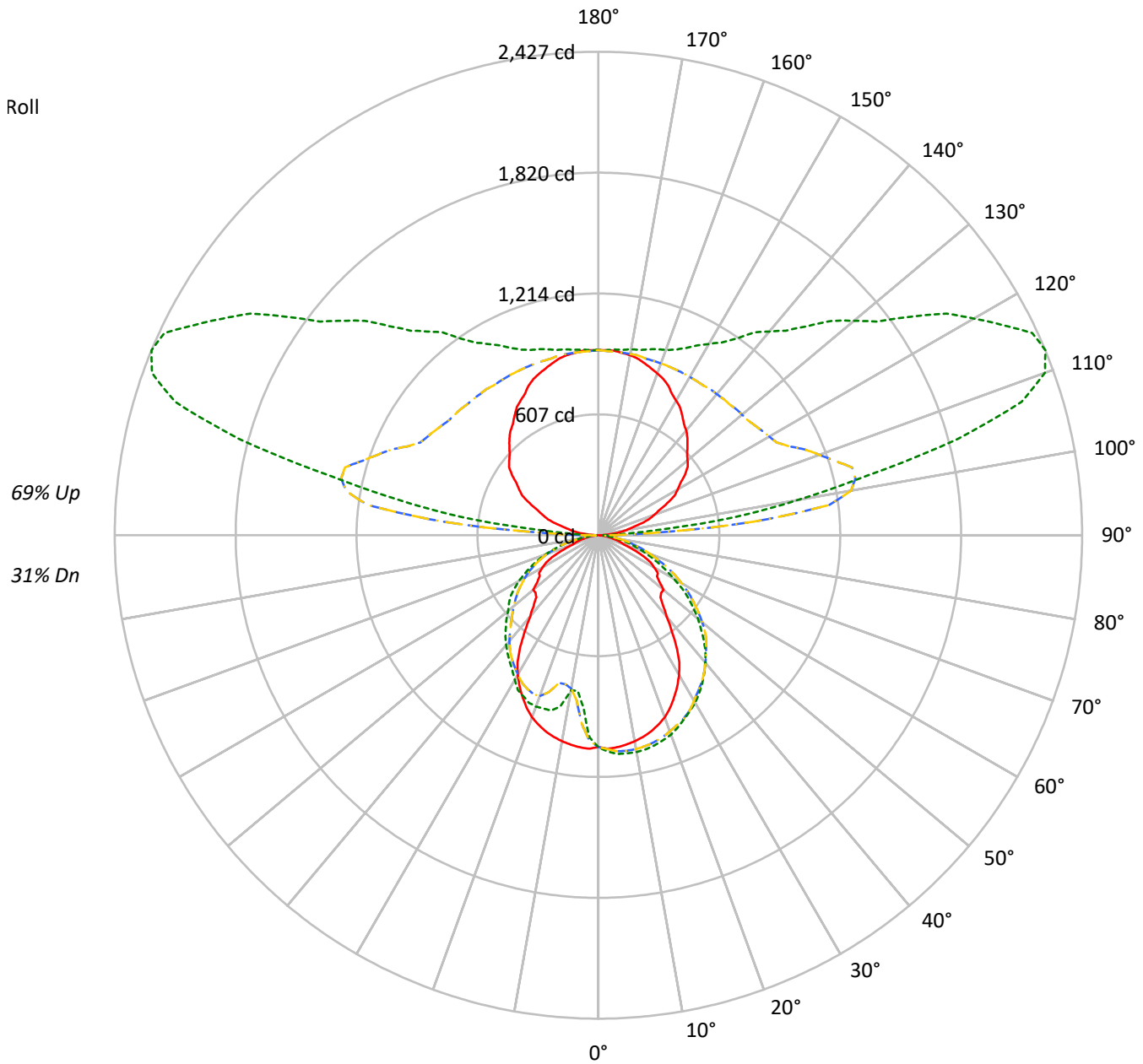
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8787.0 lumens
Efficiency: N/A
Efficacy: 142.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

Input Watts (W): 61.8
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: P935015
CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-6

Luminous Intensity Polar Plot



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



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				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	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39	31
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	35	34	33	27
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	30	29	28	22
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	27	25	24	19
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	24	22	20	16
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	22	19	18	14
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	20	17	15	12
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	18	15	14	11
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	16	14	12	10
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	15	13	11	9
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	14	12	10	8

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6578	6578	6578	6578
5°	6624	6640	6624	5221
10°	6578	6541	6578	4676
15°	6504	6399	6504	5343
20°	6365	6231	6365	5354
25°	6084	5987	6084	5241
30°	5722	5783	5722	4992
35°	5099	5526	5099	4718
40°	4246	5224	4246	4511
45°	3791	4869	3791	4273
50°	4025	4447	4025	4035
55°	3783	3991	3783	3897
60°	3895	3390	3895	3569
65°	3526	2802	3526	3132
70°	2435	2233	2435	2626
75°	2129	1650	2129	1976
80°	1702	1091	1702	1188
85°	960	577	960	491

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5815 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	96.0	1.1
10°-20°	272.5	3.1
20°-30°	421.3	4.8
30°-40°	502.9	5.7
40°-50°	505.9	5.8
50°-60°	440.2	5.0
60°-70°	312.1	3.6
70°-80°	165.1	1.9
80°-90°	44.7	0.5
90°-100°	453.1	5.2
100°-110°	1191.4	13.6
110°-120°	1235.3	14.1
120°-130°	990.9	11.3
130°-140°	777.5	8.8
140°-150°	596.7	6.8
150°-160°	429.8	4.9
160°-170°	263.0	3.0
170°-180°	88.8	1.0
0°-30°	789.8	9.0
0°-40°	1292.7	14.7
0°-60°	2238.7	25.5
0°-90°	2760.5	31.4
90°-120°	2879.8	32.8
90°-150°	5244.9	59.7
90°-180°	6026.0	68.6
0°-180°	8787.0	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1063	1063	1063	1063	1063	
5°	1068	1102	1068	866	1068	101
15°	1020	1092	1020	911	1020	287
25°	898	1018	898	891	898	412
35°	683	908	683	776	683	423
45°	441	748	441	657	441	353
55°	359	552	359	539	359	330
65°	250	333	250	372	250	238
75°	95	158	95	189	95	99
85°	16	40	16	34	16	22
90°	6	24	6	24	6	6
95°	60	274	60	274	60	67
105°	215	1866	215	1866	215	228
115°	381	2402	381	2402	381	377
125°	530	1913	530	1913	530	471
135°	632	1484	632	1484	632	489
145°	733	1204	733	1204	733	459
155°	829	1037	829	1037	829	381
165°	894	966	894	966	894	252
175°	930	936	930	936	930	88
180°	930	930	930	930	930	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1072.4	1072.4	1078.4	1080.4	1080.4	1077.4	1074.4	1077.4	1086.5	1089.5	1088.5
5°	1068.3	1076.4	1087.5	1089.5	1091.5	1090.5	1088.5	1090.5	1100.5	1102.6	1103.6
7.5°	1060.3	1075.4	1089.5	1092.5	1095.5	1092.5	1091.5	1093.5	1103.6	1105.6	1105.6
10°	1050.2	1071.4	1087.5	1089.5	1092.5	1089.5	1089.5	1093.5	1103.6	1105.6	1106.6
12.5°	1036.2	1065.3	1080.4	1082.4	1086.5	1085.5	1084.4	1088.5	1098.5	1100.5	1100.5
15°	1020.1	1054.3	1068.3	1070.4	1077.4	1075.4	1075.4	1079.4	1090.5	1093.5	1092.5
17.5°	997.9	1040.2	1056.3	1059.3	1064.3	1063.3	1064.3	1068.3	1078.4	1080.4	1081.4
20°	972.8	1021.1	1040.2	1043.2	1048.2	1048.2	1048.2	1053.3	1063.3	1067.3	1067.3
22.5°	938.6	1000.9	1021.1	1023.1	1029.1	1029.1	1031.1	1038.2	1047.2	1048.2	1048.2
25°	898.3	978.8	995.9	1002.0	1008.0	1011.0	1014.0	1018.1	1021.1	1020.1	1021.1
27.5°	856.1	950.6	972.8	976.8	984.9	987.9	991.9	992.9	993.9	996.9	994.9
30°	808.8	911.4	944.6	948.6	961.7	963.7	959.7	961.7	966.7	968.8	970.8
32.5°	755.5	853.1	915.4	924.5	936.6	930.5	929.5	932.5	940.6	940.6	942.6
35°	683.1	807.8	888.3	896.3	905.4	898.3	902.4	903.4	908.4	911.4	910.4
37.5°	603.6	768.6	860.1	866.1	873.2	864.1	870.2	873.2	877.2	875.2	875.2
40°	533.2	707.2	826.9	830.9	837.0	829.9	836.0	838.0	840.0	838.0	837.0
42.5°	480.9	639.8	791.7	796.7	792.7	797.7	799.8	803.8	800.8	796.7	796.7
45°	440.6	621.7	753.5	759.5	753.5	761.5	764.5	764.5	755.5	753.5	752.5
47.5°	427.5	585.5	715.3	715.3	712.2	722.3	727.3	720.3	711.2	708.2	708.2
50°	426.5	545.2	662.9	658.9	673.0	685.1	680.0	673.0	666.0	654.9	654.9
52.5°	387.3	495.9	595.5	610.6	632.8	639.8	631.8	624.7	612.6	607.6	603.6
55°	359.1	444.6	534.2	564.4	587.5	596.5	581.5	574.4	556.3	553.3	551.3
57.5°	353.1	370.2	477.8	516.1	544.2	543.2	534.2	521.1	506.0	503.0	502.0
60°	323.9	267.6	417.5	462.8	491.9	488.9	480.9	468.8	454.7	452.7	450.7
62.5°	293.7	194.2	349.1	400.4	441.6	440.6	433.6	415.5	405.4	400.4	396.4
65°	249.5	163.0	248.5	333.0	392.3	394.3	379.3	366.2	355.1	349.1	348.1
67.5°	190.1	132.8	168.0	277.7	345.1	343.0	323.9	317.9	303.8	300.8	294.8
70°	140.8	88.5	116.7	225.3	298.8	293.7	278.7	271.6	258.5	251.5	247.5
72.5°	116.7	71.4	85.5	175.0	251.5	245.5	232.4	224.3	213.3	207.2	203.2
75°	94.6	75.4	65.4	129.8	204.2	200.2	188.1	180.1	171.0	163.0	164.0
77.5°	69.4	70.4	52.3	95.6	162.0	155.9	148.9	138.8	134.8	126.8	126.8
80°	52.3	55.3	39.2	65.4	116.7	116.7	110.7	103.6	96.6	92.6	92.6
82.5°	35.2	35.2	29.2	41.2	79.5	76.5	72.4	70.4	66.4	64.4	64.4
85°	16.1	20.1	18.1	25.1	43.3	45.3	45.3	43.3	42.3	40.2	41.2
87.5°	5.0	9.1	11.1	14.1	22.1	23.1	24.1	24.1	24.1	25.1	25.1
90°	6.2	11.2	16.2	17.5	27.5	40.8	47.4	42.1	31.6	23.7	23.7
92.5°	25.0	67.4	109.8	120.4	169.3	234.4	267.0	234.0	168.0	118.5	113.8
95°	59.9	137.5	215.2	234.6	416.6	659.2	780.5	696.5	528.4	402.4	388.1
97.5°	103.6	172.1	240.6	257.7	561.1	965.7	1168.0	1114.9	1008.7	929.0	901.8
100°	137.3	199.4	261.5	277.0	613.7	1062.6	1287.1	1291.0	1298.8	1304.6	1272.2
102.5°	166.0	224.0	281.9	296.4	637.9	1093.2	1320.8	1388.5	1523.8	1625.3	1597.6
105°	214.6	263.7	312.8	325.1	655.8	1096.7	1317.1	1468.8	1772.1	1999.6	1984.7
107.5°	264.5	310.3	356.1	367.5	659.1	1047.8	1242.2	1453.8	1876.9	2194.3	2197.9
110°	298.2	339.5	380.9	391.2	654.1	1004.6	1179.8	1416.3	1889.4	2244.2	2259.7



TEST NUMBER: P935015

CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	331.3	370.7	410.1	419.9	654.3	966.8	1123.0	1365.1	1849.3	2212.4	2236.2
115°	381.2	417.5	453.8	462.9	660.3	923.4	1055.0	1288.2	1754.7	2104.5	2137.6
117.5°	430.5	463.5	496.5	504.7	672.5	896.3	1008.2	1218.7	1639.6	1955.3	1992.0
120°	459.2	490.3	521.3	529.1	682.6	887.2	989.5	1181.8	1566.4	1854.9	1890.5
122.5°	487.3	518.6	550.0	557.8	696.9	882.4	975.2	1148.4	1494.7	1754.4	1789.6
125°	530.3	558.9	587.5	594.6	716.3	878.5	959.6	1106.7	1400.9	1621.6	1654.0
127.5°	565.3	594.1	623.0	630.2	735.6	876.2	946.5	1072.8	1325.4	1514.9	1542.2
130°	584.0	615.1	646.1	653.9	749.8	877.6	941.5	1053.9	1278.8	1447.5	1472.7
132.5°	603.3	634.4	665.4	673.2	761.2	878.5	937.1	1037.8	1239.1	1390.1	1412.7
135°	632.0	660.3	688.6	695.7	773.7	877.6	929.6	1013.9	1182.5	1309.0	1328.5
137.5°	661.3	689.3	717.4	724.4	792.4	883.1	928.4	999.7	1142.2	1249.1	1265.0
140°	685.7	711.5	737.3	743.7	803.8	883.9	924.0	985.6	1108.7	1201.0	1215.9
142.5°	704.4	728.3	752.1	758.1	813.4	887.1	924.0	978.1	1086.2	1167.3	1180.1
145°	733.1	753.9	774.7	779.9	825.9	887.2	917.8	962.0	1050.5	1116.8	1126.5
147.5°	761.8	782.0	802.2	807.3	844.1	893.2	917.8	952.6	1022.2	1074.4	1082.4
150°	780.5	798.8	817.1	821.7	853.7	896.4	917.8	947.2	1005.9	1050.0	1056.5
152.5°	799.9	813.8	827.6	831.1	860.0	898.5	917.8	942.9	993.1	1030.7	1035.6
155°	828.6	838.8	849.0	851.6	873.7	903.1	917.8	937.8	977.7	1007.6	1010.9
157.5°	849.8	859.8	869.7	872.2	887.4	907.7	917.8	933.3	964.4	987.7	990.0
160°	864.1	871.9	879.7	881.6	893.7	909.8	917.8	931.1	957.7	977.7	979.0
162.5°	878.5	884.3	890.1	891.6	900.3	912.0	917.8	929.0	951.5	968.3	969.5
165°	894.1	899.3	904.6	905.9	909.9	915.2	917.8	925.8	941.9	954.0	955.3
167.5°	908.4	910.9	913.4	914.0	917.3	921.8	924.0	929.3	939.8	947.7	948.3
170°	917.8	920.3	922.8	923.4	923.6	923.9	924.0	929.3	939.8	947.7	947.7
172.5°	922.8	923.3	923.9	924.0	924.0	924.0	924.0	928.2	936.5	942.7	942.2
175°	929.6	929.6	929.6	929.6	927.7	925.2	924.0	926.6	931.9	935.9	935.9
177.5°	929.6	929.6	929.6	929.6	928.2	926.3	925.3	927.4	931.5	934.6	934.0
180°	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1090.5	1087.5	1090.5	1088.5	1089.5	1086.5	1077.4	1074.4	1077.4	1080.4	1080.4
5°	1103.6	1101.5	1103.6	1103.6	1102.6	1100.5	1090.5	1088.5	1090.5	1091.5	1089.5
7.5°	1107.6	1104.6	1107.6	1105.6	1105.6	1103.6	1093.5	1091.5	1092.5	1095.5	1092.5
10°	1107.6	1104.6	1107.6	1106.6	1105.6	1103.6	1093.5	1089.5	1089.5	1092.5	1089.5
12.5°	1102.6	1100.5	1102.6	1100.5	1100.5	1098.5	1088.5	1084.4	1085.5	1086.5	1082.4
15°	1094.5	1091.5	1094.5	1092.5	1093.5	1090.5	1079.4	1075.4	1075.4	1077.4	1070.4
17.5°	1082.4	1078.4	1082.4	1081.4	1080.4	1078.4	1068.3	1064.3	1063.3	1064.3	1059.3
20°	1068.3	1065.3	1068.3	1067.3	1067.3	1063.3	1053.3	1048.2	1048.2	1048.2	1043.2
22.5°	1046.2	1043.2	1046.2	1048.2	1048.2	1047.2	1038.2	1031.1	1029.1	1029.1	1023.1
25°	1021.1	1018.1	1021.1	1021.1	1020.1	1021.1	1018.1	1014.0	1011.0	1008.0	1002.0
27.5°	996.9	994.9	996.9	994.9	996.9	993.9	992.9	991.9	987.9	984.9	976.8
30°	972.8	970.8	972.8	970.8	968.8	966.7	961.7	959.7	963.7	961.7	948.6
32.5°	942.6	940.6	942.6	942.6	940.6	940.6	932.5	929.5	930.5	936.6	924.5
35°	911.4	908.4	911.4	910.4	911.4	908.4	903.4	902.4	898.3	905.4	896.3
37.5°	875.2	872.2	875.2	875.2	875.2	877.2	873.2	870.2	864.1	873.2	866.1
40°	838.0	834.0	838.0	837.0	838.0	840.0	838.0	836.0	829.9	837.0	830.9
42.5°	795.7	794.7	795.7	796.7	796.7	800.8	803.8	799.8	797.7	792.7	796.7
45°	750.5	748.4	750.5	752.5	753.5	755.5	764.5	764.5	761.5	753.5	759.5
47.5°	702.2	697.1	702.2	708.2	708.2	711.2	720.3	727.3	722.3	712.2	715.3
50°	650.9	651.9	650.9	654.9	654.9	666.0	673.0	680.0	685.1	673.0	658.9
52.5°	600.6	599.6	600.6	603.6	607.6	612.6	624.7	631.8	639.8	632.8	610.6
55°	550.3	552.3	550.3	551.3	553.3	556.3	574.4	581.5	596.5	587.5	564.4
57.5°	500.0	497.0	500.0	502.0	503.0	506.0	521.1	534.2	543.2	544.2	516.1
60°	441.6	437.6	441.6	450.7	452.7	454.7	468.8	480.9	488.9	491.9	462.8
62.5°	390.3	383.3	390.3	396.4	400.4	405.4	415.5	433.6	440.6	441.6	400.4
65°	336.0	333.0	336.0	348.1	349.1	355.1	366.2	379.3	394.3	392.3	333.0
67.5°	286.7	286.7	286.7	294.8	300.8	303.8	317.9	323.9	343.0	345.1	277.7
70°	241.4	240.4	241.4	247.5	251.5	258.5	271.6	278.7	293.7	298.8	225.3
72.5°	198.2	197.2	198.2	203.2	207.2	213.3	224.3	232.4	245.5	251.5	175.0
75°	160.0	157.9	160.0	164.0	163.0	171.0	180.1	188.1	200.2	204.2	129.8
77.5°	122.7	122.7	122.7	126.8	126.8	134.8	138.8	148.9	155.9	162.0	95.6
80°	91.5	90.5	91.5	92.6	92.6	96.6	103.6	110.7	116.7	116.7	65.4
82.5°	64.4	62.4	64.4	64.4	64.4	66.4	70.4	72.4	76.5	79.5	41.2
85°	40.2	40.2	40.2	41.2	40.2	42.3	43.3	45.3	45.3	43.3	25.1
87.5°	26.2	25.1	26.2	25.1	25.1	24.1	24.1	24.1	23.1	22.1	14.1
90°	23.7	23.7	23.7	23.7	23.7	31.6	42.1	47.4	40.8	27.5	17.5
92.5°	94.9	76.1	94.9	113.8	118.5	168.0	234.0	267.0	234.4	169.3	120.4
95°	331.0	273.9	331.0	388.1	402.4	528.4	696.5	780.5	659.2	416.6	234.6
97.5°	793.1	684.4	793.1	901.8	929.0	1008.7	1114.9	1168.0	965.7	561.1	257.7
100°	1142.7	1013.2	1142.7	1272.2	1304.6	1298.8	1291.0	1287.1	1062.6	613.7	277.0
102.5°	1486.6	1375.7	1486.6	1597.6	1625.3	1523.8	1388.5	1320.8	1093.2	637.9	296.4
105°	1925.1	1865.5	1925.1	1984.7	1999.6	1772.1	1468.8	1317.1	1096.7	655.8	325.1
107.5°	2212.4	2226.8	2212.4	2197.9	2194.3	1876.9	1453.8	1242.2	1047.8	659.1	367.5
110°	2321.9	2384.0	2321.9	2259.7	2244.2	1889.4	1416.3	1179.8	1004.6	654.1	391.2



TEST NUMBER: P935015

CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2331.6	2427.0	2331.6	2236.2	2212.4	1849.3	1365.1	1123.0	966.8	654.3	419.9
115°	2269.8	2402.1	2269.8	2137.6	2104.5	1754.7	1288.2	1055.0	923.4	660.3	462.9
117.5°	2138.7	2285.4	2138.7	1992.0	1955.3	1639.6	1218.7	1008.2	896.3	672.5	504.7
120°	2033.1	2175.6	2033.1	1890.5	1854.9	1566.4	1181.8	989.5	887.2	682.6	529.1
122.5°	1930.2	2070.8	1930.2	1789.6	1754.4	1494.7	1148.4	975.2	882.4	696.9	557.8
125°	1783.4	1912.9	1783.4	1654.0	1621.6	1400.9	1106.7	959.6	878.5	716.3	594.6
127.5°	1651.5	1760.7	1651.5	1542.2	1514.9	1325.4	1072.8	946.5	876.2	735.6	630.2
130°	1573.7	1674.6	1573.7	1472.7	1447.5	1278.8	1053.9	941.5	877.6	749.8	653.9
132.5°	1503.1	1593.5	1503.1	1412.7	1390.1	1239.1	1037.8	937.1	878.5	761.2	673.2
135°	1406.4	1484.3	1406.4	1328.5	1309.0	1182.5	1013.9	929.6	877.6	773.7	695.7
137.5°	1328.8	1392.6	1328.8	1265.0	1249.1	1142.2	999.7	928.4	883.1	792.4	724.4
140°	1275.6	1335.2	1275.6	1215.9	1201.0	1108.7	985.6	924.0	883.9	803.8	743.7
142.5°	1231.5	1282.8	1231.5	1180.1	1167.3	1086.2	978.1	924.0	887.1	813.4	758.1
145°	1165.4	1204.2	1165.4	1126.5	1116.8	1050.5	962.0	917.8	887.2	825.9	779.9
147.5°	1114.6	1146.8	1114.6	1082.4	1074.4	1022.2	952.6	917.8	893.2	844.1	807.3
150°	1082.6	1108.7	1082.6	1056.5	1050.0	1005.9	947.2	917.8	896.4	853.7	821.7
152.5°	1055.3	1075.0	1055.3	1035.6	1030.7	993.1	942.9	917.8	898.5	860.0	831.1
155°	1023.9	1036.9	1023.9	1010.9	1007.6	977.7	937.8	917.8	903.1	873.7	851.6
157.5°	999.1	1008.2	999.1	990.0	987.7	964.4	933.3	917.8	907.7	887.4	872.2
160°	984.3	989.5	984.3	979.0	977.7	957.7	931.1	917.8	909.8	893.7	881.6
162.5°	974.5	979.5	974.5	969.5	968.3	951.5	929.0	917.8	912.0	900.3	891.6
165°	960.6	965.8	960.6	955.3	954.0	941.9	925.8	917.8	915.2	909.9	905.9
167.5°	950.5	952.7	950.5	948.3	947.7	939.8	929.3	924.0	921.8	917.3	914.0
170°	947.7	947.7	947.7	947.7	947.7	939.8	929.3	924.0	923.9	923.6	923.4
172.5°	940.3	938.4	940.3	942.2	942.7	936.5	928.2	924.0	924.0	924.0	924.0
175°	935.9	935.9	935.9	935.9	935.9	931.9	926.6	924.0	925.2	927.7	929.6
177.5°	931.8	929.6	931.8	934.0	934.6	931.5	927.4	925.3	926.3	928.2	929.6
180°	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6



TEST NUMBER: P935015
 CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1078.4	1072.4	1072.4	1062.3	1058.3	1055.3	1050.2	1035.2	1031.1	1027.1	1033.1
5°	1087.5	1076.4	1068.3	1050.2	1035.2	1029.1	1010.0	973.8	949.6	931.5	921.5
7.5°	1089.5	1075.4	1060.3	1032.1	995.9	979.8	921.5	855.1	837.0	820.9	810.8
10°	1087.5	1071.4	1050.2	1008.0	922.5	894.3	836.0	792.7	781.6	778.6	781.6
12.5°	1080.4	1065.3	1036.2	965.7	846.0	826.9	792.7	767.6	765.5	770.6	797.7
15°	1068.3	1054.3	1020.1	909.4	803.8	789.7	765.5	756.5	767.6	802.8	884.3
17.5°	1056.3	1040.2	997.9	854.1	771.6	761.5	744.4	762.5	824.9	872.2	899.3
20°	1040.2	1021.1	972.8	813.8	748.4	739.4	731.3	812.8	860.1	877.2	892.3
22.5°	1021.1	1000.9	938.6	785.7	724.3	717.3	722.3	841.0	860.1	872.2	885.3
25°	995.9	978.8	898.3	763.5	705.2	697.1	716.3	838.0	849.0	852.1	878.2
27.5°	972.8	950.6	856.1	743.4	682.1	679.0	721.3	824.9	833.0	836.0	864.1
30°	944.6	911.4	808.8	722.3	657.9	656.9	722.3	808.8	806.8	814.8	843.0
32.5°	915.4	853.1	755.5	696.1	634.8	633.8	715.3	784.7	782.7	793.7	814.8
35°	888.3	807.8	683.1	666.0	605.6	606.6	698.1	756.5	757.5	767.6	780.6
37.5°	860.1	768.6	603.6	632.8	577.4	577.4	675.0	730.3	728.3	731.3	749.5
40°	826.9	707.2	533.2	589.5	551.3	548.3	646.8	702.2	695.1	694.1	719.3
42.5°	791.7	639.8	480.9	532.2	521.1	517.1	612.6	668.0	654.9	657.9	690.1
45°	753.5	621.7	440.6	449.7	489.9	486.9	575.4	628.7	619.7	627.7	660.9
47.5°	715.3	585.5	427.5	373.2	456.7	455.7	534.2	590.5	585.5	593.5	628.7
50°	662.9	545.2	426.5	319.9	419.5	423.5	484.9	553.3	553.3	560.3	597.6
52.5°	595.5	495.9	387.3	289.7	376.2	388.3	441.6	521.1	523.1	530.2	563.3
55°	534.2	444.6	359.1	266.6	324.9	351.1	399.4	487.9	491.9	499.0	529.1
57.5°	477.8	370.2	353.1	239.4	277.7	302.8	362.2	455.7	457.7	463.8	492.9
60°	417.5	267.6	323.9	210.2	236.4	255.5	327.9	417.5	424.5	428.5	453.7
62.5°	349.1	194.2	293.7	190.1	216.3	220.3	299.8	381.3	390.3	393.3	408.4
65°	248.5	163.0	249.5	173.0	195.2	196.2	269.6	344.0	352.1	357.1	368.2
67.5°	168.0	132.8	190.1	156.9	179.1	180.1	240.4	300.8	311.9	315.9	322.9
70°	116.7	88.5	140.8	139.8	161.0	163.0	209.2	261.6	271.6	274.6	278.7
72.5°	85.5	71.4	116.7	125.7	141.8	143.9	177.1	217.3	227.4	230.4	232.4
75°	65.4	75.4	94.6	109.7	120.7	121.7	144.9	177.1	184.1	186.1	187.1
77.5°	52.3	70.4	69.4	88.5	98.6	96.6	113.7	136.8	142.8	142.8	142.8
80°	39.2	55.3	52.3	63.4	72.4	70.4	81.5	97.6	99.6	101.6	100.6
82.5°	29.2	35.2	35.2	40.2	48.3	46.3	54.3	63.4	63.4	63.4	65.4
85°	18.1	20.1	16.1	21.1	27.2	26.2	30.2	34.2	35.2	35.2	33.2
87.5°	11.1	9.1	5.0	8.0	12.1	12.1	14.1	15.1	14.1	14.1	14.1
90°	16.2	11.2	6.2	11.2	16.2	17.5	27.5	40.8	47.4	42.1	31.6
92.5°	109.8	67.4	25.0	67.4	109.8	120.4	169.3	234.4	267.0	234.0	168.0
95°	215.2	137.5	59.9	137.5	215.2	234.6	416.6	659.2	780.5	696.5	528.4
97.5°	240.6	172.1	103.6	172.1	240.6	257.7	561.1	965.7	1168.0	1114.9	1008.7
100°	261.5	199.4	137.3	199.4	261.5	277.0	613.7	1062.6	1287.1	1291.0	1298.8
102.5°	281.9	224.0	166.0	224.0	281.9	296.4	637.9	1093.2	1320.8	1388.5	1523.8
105°	312.8	263.7	214.6	263.7	312.8	325.1	655.8	1096.7	1317.1	1468.8	1772.1
107.5°	356.1	310.3	264.5	310.3	356.1	367.5	659.1	1047.8	1242.2	1453.8	1876.9
110°	380.9	339.5	298.2	339.5	380.9	391.2	654.1	1004.6	1179.8	1416.3	1889.4



TEST NUMBER: P935015

CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	410.1	370.7	331.3	370.7	410.1	419.9	654.3	966.8	1123.0	1365.1	1849.3
115°	453.8	417.5	381.2	417.5	453.8	462.9	660.3	923.4	1055.0	1288.2	1754.7
117.5°	496.5	463.5	430.5	463.5	496.5	504.7	672.5	896.3	1008.2	1218.7	1639.6
120°	521.3	490.3	459.2	490.3	521.3	529.1	682.6	887.2	989.5	1181.8	1566.4
122.5°	550.0	518.6	487.3	518.6	550.0	557.8	696.9	882.4	975.2	1148.4	1494.7
125°	587.5	558.9	530.3	558.9	587.5	594.6	716.3	878.5	959.6	1106.7	1400.9
127.5°	623.0	594.1	565.3	594.1	623.0	630.2	735.6	876.2	946.5	1072.8	1325.4
130°	646.1	615.1	584.0	615.1	646.1	653.9	749.8	877.6	941.5	1053.9	1278.8
132.5°	665.4	634.4	603.3	634.4	665.4	673.2	761.2	878.5	937.1	1037.8	1239.1
135°	688.6	660.3	632.0	660.3	688.6	695.7	773.7	877.6	929.6	1013.9	1182.5
137.5°	717.4	689.3	661.3	689.3	717.4	724.4	792.4	883.1	928.4	999.7	1142.2
140°	737.3	711.5	685.7	711.5	737.3	743.7	803.8	883.9	924.0	985.6	1108.7
142.5°	752.1	728.3	704.4	728.3	752.1	758.1	813.4	887.1	924.0	978.1	1086.2
145°	774.7	753.9	733.1	753.9	774.7	779.9	825.9	887.2	917.8	962.0	1050.5
147.5°	802.2	782.0	761.8	782.0	802.2	807.3	844.1	893.2	917.8	952.6	1022.2
150°	817.1	798.8	780.5	798.8	817.1	821.7	853.7	896.4	917.8	947.2	1005.9
152.5°	827.6	813.8	799.9	813.8	827.6	831.1	860.0	898.5	917.8	942.9	993.1
155°	849.0	838.8	828.6	838.8	849.0	851.6	873.7	903.1	917.8	937.8	977.7
157.5°	869.7	859.8	849.8	859.8	869.7	872.2	887.4	907.7	917.8	933.3	964.4
160°	879.7	871.9	864.1	871.9	879.7	881.6	893.7	909.8	917.8	931.1	957.7
162.5°	890.1	884.3	878.5	884.3	890.1	891.6	900.3	912.0	917.8	929.0	951.5
165°	904.6	899.3	894.1	899.3	904.6	905.9	909.9	915.2	917.8	925.8	941.9
167.5°	913.4	910.9	908.4	910.9	913.4	914.0	917.3	921.8	924.0	929.3	939.8
170°	922.8	920.3	917.8	920.3	922.8	923.4	923.6	923.9	924.0	929.3	939.8
172.5°	923.9	923.3	922.8	923.3	923.9	924.0	924.0	924.0	924.0	928.2	936.5
175°	929.6	929.6	929.6	929.6	929.6	929.6	927.7	925.2	924.0	926.6	931.9
177.5°	929.6	929.6	929.6	929.6	929.6	929.6	928.2	926.3	925.3	927.4	931.5
180°	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6



TEST NUMBER: P935015
 CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1026.1	1023.1	1027.1	1016.0	1027.1	1023.1	1026.1	1033.1	1027.1	1031.1	1035.2
5°	900.4	895.3	879.2	866.1	879.2	895.3	900.4	921.5	931.5	949.6	973.8
7.5°	804.8	800.8	796.7	788.7	796.7	800.8	804.8	810.8	820.9	837.0	855.1
10°	783.7	784.7	790.7	789.7	790.7	784.7	783.7	781.6	778.6	781.6	792.7
12.5°	838.0	847.0	880.2	878.2	880.2	847.0	838.0	797.7	770.6	765.5	767.6
15°	900.4	903.4	910.4	911.4	910.4	903.4	900.4	884.3	802.8	767.6	756.5
17.5°	906.4	907.4	912.4	912.4	912.4	907.4	906.4	899.3	872.2	824.9	762.5
20°	901.4	903.4	913.4	915.4	913.4	903.4	901.4	892.3	877.2	860.1	812.8
22.5°	899.3	903.4	911.4	910.4	911.4	903.4	899.3	885.3	872.2	860.1	841.0
25°	889.3	889.3	890.3	891.3	890.3	889.3	889.3	878.2	852.1	849.0	838.0
27.5°	868.2	870.2	876.2	875.2	876.2	870.2	868.2	864.1	836.0	833.0	824.9
30°	849.0	847.0	842.0	838.0	842.0	847.0	849.0	843.0	814.8	806.8	808.8
32.5°	816.9	811.8	806.8	803.8	806.8	811.8	816.9	814.8	793.7	782.7	784.7
35°	778.6	779.6	778.6	775.6	778.6	779.6	778.6	780.6	767.6	757.5	756.5
37.5°	751.5	753.5	752.5	748.4	752.5	753.5	751.5	749.5	731.3	728.3	730.3
40°	723.3	724.3	723.3	720.3	723.3	724.3	723.3	719.3	694.1	695.1	702.2
42.5°	696.1	695.1	692.1	690.1	692.1	695.1	696.1	690.1	657.9	654.9	668.0
45°	665.0	666.0	659.9	656.9	659.9	666.0	665.0	660.9	627.7	619.7	628.7
47.5°	633.8	633.8	628.7	625.7	628.7	633.8	633.8	628.7	593.5	585.5	590.5
50°	600.6	599.6	592.5	591.5	592.5	599.6	600.6	597.6	560.3	553.3	553.3
52.5°	562.3	562.3	563.3	565.4	563.3	562.3	562.3	563.3	530.2	523.1	521.1
55°	529.1	530.2	537.2	539.2	537.2	530.2	529.1	529.1	499.0	491.9	487.9
57.5°	494.9	494.9	500.0	500.0	500.0	494.9	494.9	492.9	463.8	457.7	455.7
60°	455.7	457.7	461.7	460.7	461.7	457.7	455.7	453.7	428.5	424.5	417.5
62.5°	414.5	416.5	417.5	415.5	417.5	416.5	414.5	408.4	393.3	390.3	381.3
65°	371.2	373.2	374.2	372.2	374.2	373.2	371.2	368.2	357.1	352.1	344.0
67.5°	326.9	325.9	324.9	329.0	324.9	325.9	326.9	322.9	315.9	311.9	300.8
70°	281.7	281.7	280.7	282.7	280.7	281.7	281.7	278.7	274.6	271.6	261.6
72.5°	233.4	232.4	236.4	233.4	236.4	232.4	233.4	232.4	230.4	227.4	217.3
75°	186.1	188.1	186.1	189.1	186.1	188.1	186.1	187.1	186.1	184.1	177.1
77.5°	141.8	143.9	141.8	141.8	141.8	143.9	141.8	142.8	142.8	142.8	136.8
80°	100.6	99.6	99.6	98.6	99.6	99.6	100.6	100.6	101.6	99.6	97.6
82.5°	64.4	63.4	63.4	65.4	63.4	63.4	64.4	65.4	63.4	63.4	63.4
85°	35.2	36.2	34.2	34.2	34.2	36.2	35.2	33.2	35.2	35.2	34.2
87.5°	13.1	12.1	12.1	12.1	12.1	12.1	13.1	14.1	14.1	14.1	15.1
90°	23.7	23.7	23.7	23.7	23.7	23.7	23.7	31.6	42.1	47.4	40.8
92.5°	118.5	113.8	94.9	76.1	94.9	113.8	118.5	168.0	234.0	267.0	234.4
95°	402.4	388.1	331.0	273.9	331.0	388.1	402.4	528.4	696.5	780.5	659.2
97.5°	929.0	901.8	793.1	684.4	793.1	901.8	929.0	1008.7	1114.9	1168.0	965.7
100°	1304.6	1272.2	1142.7	1013.2	1142.7	1272.2	1304.6	1298.8	1291.0	1287.1	1062.6
102.5°	1625.3	1597.6	1486.6	1375.7	1486.6	1597.6	1625.3	1523.8	1388.5	1320.8	1093.2
105°	1999.6	1984.7	1925.1	1865.5	1925.1	1984.7	1999.6	1772.1	1468.8	1317.1	1096.7
107.5°	2194.3	2197.9	2212.4	2226.8	2212.4	2197.9	2194.3	1876.9	1453.8	1242.2	1047.8
110°	2244.2	2259.7	2321.9	2384.0	2321.9	2259.7	2244.2	1889.4	1416.3	1179.8	1004.6



TEST NUMBER: P935015

CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2212.4	2236.2	2331.6	2427.0	2331.6	2236.2	2212.4	1849.3	1365.1	1123.0	966.8
115°	2104.5	2137.6	2269.8	2402.1	2269.8	2137.6	2104.5	1754.7	1288.2	1055.0	923.4
117.5°	1955.3	1992.0	2138.7	2285.4	2138.7	1992.0	1955.3	1639.6	1218.7	1008.2	896.3
120°	1854.9	1890.5	2033.1	2175.6	2033.1	1890.5	1854.9	1566.4	1181.8	989.5	887.2
122.5°	1754.4	1789.6	1930.2	2070.8	1930.2	1789.6	1754.4	1494.7	1148.4	975.2	882.4
125°	1621.6	1654.0	1783.4	1912.9	1783.4	1654.0	1621.6	1400.9	1106.7	959.6	878.5
127.5°	1514.9	1542.2	1651.5	1760.7	1651.5	1542.2	1514.9	1325.4	1072.8	946.5	876.2
130°	1447.5	1472.7	1573.7	1674.6	1573.7	1472.7	1447.5	1278.8	1053.9	941.5	877.6
132.5°	1390.1	1412.7	1503.1	1593.5	1503.1	1412.7	1390.1	1239.1	1037.8	937.1	878.5
135°	1309.0	1328.5	1406.4	1484.3	1406.4	1328.5	1309.0	1182.5	1013.9	929.6	877.6
137.5°	1249.1	1265.0	1328.8	1392.6	1328.8	1265.0	1249.1	1142.2	999.7	928.4	883.1
140°	1201.0	1215.9	1275.6	1335.2	1275.6	1215.9	1201.0	1108.7	985.6	924.0	883.9
142.5°	1167.3	1180.1	1231.5	1282.8	1231.5	1180.1	1167.3	1086.2	978.1	924.0	887.1
145°	1116.8	1126.5	1165.4	1204.2	1165.4	1126.5	1116.8	1050.5	962.0	917.8	887.2
147.5°	1074.4	1082.4	1114.6	1146.8	1114.6	1082.4	1074.4	1022.2	952.6	917.8	893.2
150°	1050.0	1056.5	1082.6	1108.7	1082.6	1056.5	1050.0	1005.9	947.2	917.8	896.4
152.5°	1030.7	1035.6	1055.3	1075.0	1055.3	1035.6	1030.7	993.1	942.9	917.8	898.5
155°	1007.6	1010.9	1023.9	1036.9	1023.9	1010.9	1007.6	977.7	937.8	917.8	903.1
157.5°	987.7	990.0	999.1	1008.2	999.1	990.0	987.7	964.4	933.3	917.8	907.7
160°	977.7	979.0	984.3	989.5	984.3	979.0	977.7	957.7	931.1	917.8	909.8
162.5°	968.3	969.5	974.5	979.5	974.5	969.5	968.3	951.5	929.0	917.8	912.0
165°	954.0	955.3	960.6	965.8	960.6	955.3	954.0	941.9	925.8	917.8	915.2
167.5°	947.7	948.3	950.5	952.7	950.5	948.3	947.7	939.8	929.3	924.0	921.8
170°	947.7	947.7	947.7	947.7	947.7	947.7	947.7	939.8	929.3	924.0	923.9
172.5°	942.7	942.2	940.3	938.4	940.3	942.2	942.7	936.5	928.2	924.0	924.0
175°	935.9	935.9	935.9	935.9	935.9	935.9	935.9	931.9	926.6	924.0	925.2
177.5°	934.6	934.0	931.8	929.6	931.8	934.0	934.6	931.5	927.4	925.3	926.3
180°	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6	929.6



TEST NUMBER: P935015

CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1063.3	1063.3	1063.3	1063.3	1063.3
2.5°	1050.2	1055.3	1058.3	1062.3	1072.4
5°	1010.0	1029.1	1035.2	1050.2	1068.3
7.5°	921.5	979.8	995.9	1032.1	1060.3
10°	836.0	894.3	922.5	1008.0	1050.2
12.5°	792.7	826.9	846.0	965.7	1036.2
15°	765.5	789.7	803.8	909.4	1020.1
17.5°	744.4	761.5	771.6	854.1	997.9
20°	731.3	739.4	748.4	813.8	972.8
22.5°	722.3	717.3	724.3	785.7	938.6
25°	716.3	697.1	705.2	763.5	898.3
27.5°	721.3	679.0	682.1	743.4	856.1
30°	722.3	656.9	657.9	722.3	808.8
32.5°	715.3	633.8	634.8	696.1	755.5
35°	698.1	606.6	605.6	666.0	683.1
37.5°	675.0	577.4	577.4	632.8	603.6
40°	646.8	548.3	551.3	589.5	533.2
42.5°	612.6	517.1	521.1	532.2	480.9
45°	575.4	486.9	489.9	449.7	440.6
47.5°	534.2	455.7	456.7	373.2	427.5
50°	484.9	423.5	419.5	319.9	426.5
52.5°	441.6	388.3	376.2	289.7	387.3
55°	399.4	351.1	324.9	266.6	359.1
57.5°	362.2	302.8	277.7	239.4	353.1
60°	327.9	255.5	236.4	210.2	323.9
62.5°	299.8	220.3	216.3	190.1	293.7
65°	269.6	196.2	195.2	173.0	249.5
67.5°	240.4	180.1	179.1	156.9	190.1
70°	209.2	163.0	161.0	139.8	140.8
72.5°	177.1	143.9	141.8	125.7	116.7
75°	144.9	121.7	120.7	109.7	94.6
77.5°	113.7	96.6	98.6	88.5	69.4
80°	81.5	70.4	72.4	63.4	52.3
82.5°	54.3	46.3	48.3	40.2	35.2
85°	30.2	26.2	27.2	21.1	16.1
87.5°	14.1	12.1	12.1	8.0	5.0
90°	27.5	17.5	16.2	11.2	6.2
92.5°	169.3	120.4	109.8	67.4	25.0
95°	416.6	234.6	215.2	137.5	59.9
97.5°	561.1	257.7	240.6	172.1	103.6
100°	613.7	277.0	261.5	199.4	137.3
102.5°	637.9	296.4	281.9	224.0	166.0
105°	655.8	325.1	312.8	263.7	214.6
107.5°	659.1	367.5	356.1	310.3	264.5
110°	654.1	391.2	380.9	339.5	298.2



TEST NUMBER: P935015

CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-6

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	654.3	419.9	410.1	370.7	331.3
115°	660.3	462.9	453.8	417.5	381.2
117.5°	672.5	504.7	496.5	463.5	430.5
120°	682.6	529.1	521.3	490.3	459.2
122.5°	696.9	557.8	550.0	518.6	487.3
125°	716.3	594.6	587.5	558.9	530.3
127.5°	735.6	630.2	623.0	594.1	565.3
130°	749.8	653.9	646.1	615.1	584.0
132.5°	761.2	673.2	665.4	634.4	603.3
135°	773.7	695.7	688.6	660.3	632.0
137.5°	792.4	724.4	717.4	689.3	661.3
140°	803.8	743.7	737.3	711.5	685.7
142.5°	813.4	758.1	752.1	728.3	704.4
145°	825.9	779.9	774.7	753.9	733.1
147.5°	844.1	807.3	802.2	782.0	761.8
150°	853.7	821.7	817.1	798.8	780.5
152.5°	860.0	831.1	827.6	813.8	799.9
155°	873.7	851.6	849.0	838.8	828.6
157.5°	887.4	872.2	869.7	859.8	849.8
160°	893.7	881.6	879.7	871.9	864.1
162.5°	900.3	891.6	890.1	884.3	878.5
165°	909.9	905.9	904.6	899.3	894.1
167.5°	917.3	914.0	913.4	910.9	908.4
170°	923.6	923.4	922.8	920.3	917.8
172.5°	924.0	924.0	923.9	923.3	922.8
175°	927.7	929.6	929.6	929.6	929.6
177.5°	928.2	929.6	929.6	929.6	929.6
180°	929.6	929.6	929.6	929.6	929.6



TEST NUMBER: P935015
 CATALOG NUMBER: SQ4-FA-100U-050D-835-1D-UNV-STD-W-6

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	9.32	10.04	10.43	11.14	12.65	12.15	12.86	13.25	13.96	15.48
	3H	9.79	10.43	10.90	11.54	13.07	13.48	14.12	14.59	15.23	16.76
	4H	9.97	10.58	11.09	11.69	13.23	13.92	14.52	15.04	15.63	17.17
	6H	10.08	10.64	11.21	11.75	13.30	14.19	14.75	15.32	15.86	17.41
	8H	10.08	10.61	11.21	11.74	13.28	14.26	14.79	15.39	15.92	17.46
	12H	10.05	10.55	11.18	11.67	13.24	14.29	14.80	15.43	15.92	17.48
4H	2H	10.34	10.94	11.46	12.05	13.59	12.54	13.15	13.67	14.26	15.79
	3H	11.35	11.86	12.48	12.99	14.54	14.03	14.54	15.16	15.67	17.22
	4H	11.62	12.09	12.76	13.21	14.78	14.55	15.02	15.69	16.14	17.71
	6H	11.74	12.14	12.88	13.28	14.84	14.91	15.30	16.05	16.45	18.01
	8H	11.74	12.11	12.88	13.25	14.83	15.01	15.38	16.15	16.52	18.10
	12H	11.70	12.04	12.86	13.19	14.77	15.06	15.39	16.22	16.54	18.13
8H	4H	12.06	12.43	13.20	13.57	15.15	14.66	15.04	15.81	16.17	17.75
	6H	12.32	12.62	13.48	13.80	15.38	15.09	15.40	16.26	16.58	18.15
	8H	12.36	12.63	13.53	13.78	15.38	15.24	15.51	16.41	16.67	18.26
	12H	12.33	12.57	13.51	13.73	15.35	15.33	15.57	16.51	16.72	18.35
12H	4H	12.06	12.40	13.22	13.55	15.13	14.62	14.96	15.78	16.11	17.69
	6H	12.38	12.64	13.55	13.80	15.40	15.09	15.36	16.26	16.52	18.11
	8H	12.43	12.67	13.61	13.83	15.46	15.24	15.48	16.41	16.63	18.26