

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: P935136

Luminaire Tested: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935136
REPORT IS A COMBINATION OF REPORTS P933742 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

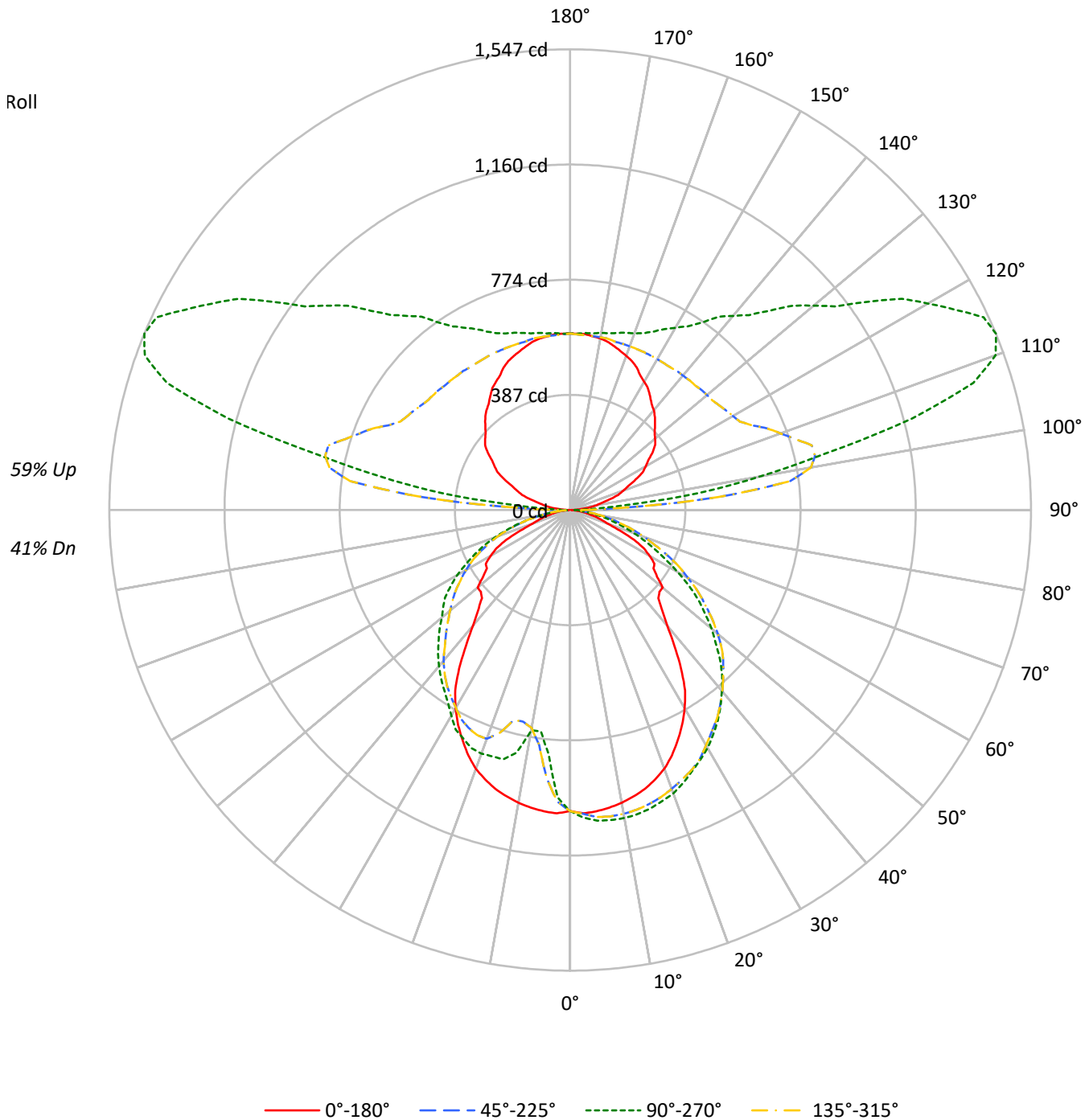
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6464.8 lumens
Efficiency: N/A
Efficacy: 131.4 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 49.2
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: P935136
CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P935136

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

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	105	105	105	105	96	96	96	96	78	78	78	62	62	62	47	47	47	47	47	47	41
1	96	91	88	84	87	83	80	77	68	66	64	55	53	52	42	41	40	40	40	40	34
2	87	80	74	69	79	73	68	63	60	56	53	48	45	43	37	35	34	34	34	34	29
3	79	70	63	57	72	64	58	53	53	48	45	42	39	37	33	31	29	29	29	29	24
4	73	62	54	48	66	57	50	45	47	42	38	38	34	31	29	27	25	25	25	25	21
5	67	55	47	41	60	51	44	38	42	37	33	34	30	27	26	24	22	22	22	22	18
6	61	49	41	36	56	45	38	33	38	32	28	31	27	24	24	21	19	19	19	19	16
7	57	45	37	31	51	41	34	29	34	29	25	28	24	21	22	19	17	17	17	17	14
8	52	40	33	27	48	37	30	26	31	26	22	25	21	18	20	17	15	15	15	15	13
9	49	37	29	24	44	34	27	23	28	23	20	23	19	17	18	16	13	13	13	13	11
10	46	34	26	22	41	31	25	20	26	21	18	21	18	15	17	14	12	12	12	12	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	9379	9379	9379	9379
5°	9439	9469	9439	7445
10°	9366	9327	9366	6668
15°	9254	9126	9254	7619
20°	9049	8885	9049	7635
25°	8643	8536	8643	7473
30°	8121	8246	8121	7118
35°	7230	7879	7230	6728
40°	6014	7448	6014	6433
45°	5363	6943	5363	6094
50°	5684	6340	5684	5753
55°	5334	5691	5334	5556
60°	5477	4833	5477	5089
65°	4941	3995	4941	4467
70°	3399	3183	3399	3743
75°	2948	2353	2948	2819
80°	2326	1557	2326	1694
85°	1267	823	1267	700

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 8235 cd/sqm



TEST NUMBER: P935136

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.2	1.4
10°-20°	259.1	4.0
20°-30°	400.5	6.2
30°-40°	478.1	7.4
40°-50°	480.9	7.4
50°-60°	418.4	6.5
60°-70°	296.7	4.6
70°-80°	156.9	2.4
80°-90°	41.3	0.6
90°-100°	288.9	4.5
100°-110°	759.5	11.7
110°-120°	787.5	12.2
120°-130°	631.6	9.8
130°-140°	495.6	7.7
140°-150°	380.4	5.9
150°-160°	274.0	4.2
160°-170°	167.6	2.6
170°-180°	56.6	0.9
0°-30°	750.8	11.6
0°-40°	1228.9	19.0
0°-60°	2128.2	32.9
0°-90°	2623.1	40.6
90°-120°	1835.8	28.4
90°-150°	3343.4	51.7
90°-180°	3842.0	59.4
0°-180°	6464.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1011	1011	1011	1011	1011	
5°	1016	1047	1016	823	1016	96
15°	970	1038	970	866	970	273
25°	854	968	854	847	854	392
35°	649	864	649	737	649	402
45°	419	712	419	624	419	336
55°	342	525	342	513	342	314
65°	237	316	237	354	237	227
75°	90	150	90	180	90	95
85°	15	38	15	32	15	21
90°	4	15	4	15	4	4
95°	38	175	38	175	38	42
105°	137	1189	137	1189	137	145
115°	243	1531	243	1531	243	240
125°	338	1219	338	1219	338	300
135°	403	946	403	946	403	312
145°	467	768	467	768	467	293
155°	528	661	528	661	528	243
165°	570	616	570	616	570	161
175°	593	597	593	597	593	56
180°	593	593	593	593	593	



TEST NUMBER: P935136

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1019.4	1019.4	1025.2	1027.1	1027.1	1024.3	1021.4	1024.3	1032.9	1035.7	1034.8
5°	1015.6	1023.3	1033.8	1035.7	1037.7	1036.7	1034.8	1036.7	1046.3	1048.2	1049.1
7.5°	1007.9	1022.4	1035.7	1038.6	1041.5	1038.6	1037.7	1039.6	1049.1	1051.0	1051.0
10°	998.4	1018.4	1033.8	1035.7	1038.6	1035.7	1035.7	1039.6	1049.1	1051.0	1052.0
12.5°	985.0	1012.7	1027.1	1029.1	1032.9	1031.9	1031.0	1034.8	1044.4	1046.3	1046.3
15°	969.7	1002.2	1015.6	1017.5	1024.3	1022.4	1022.4	1026.2	1036.7	1039.6	1038.6
17.5°	948.6	988.8	1004.1	1007.0	1011.7	1010.8	1011.7	1015.6	1025.2	1027.1	1028.1
20°	924.7	970.6	988.8	991.7	996.4	996.4	996.4	1001.2	1010.8	1014.6	1014.6
22.5°	892.2	951.5	970.6	972.5	978.3	978.3	980.2	986.9	995.5	996.4	996.4
25°	854.0	930.5	946.7	952.5	958.2	961.1	963.9	967.8	970.6	969.7	970.6
27.5°	813.8	903.7	924.7	928.6	936.2	939.1	942.9	943.9	944.8	947.7	945.8
30°	768.9	866.4	898.0	901.8	914.2	916.1	912.3	914.2	919.0	920.9	922.8
32.5°	718.2	810.9	870.2	878.8	890.3	884.6	883.6	886.5	894.1	894.1	896.0
35°	649.4	767.9	844.4	852.1	860.7	854.0	857.8	858.8	863.5	866.4	865.5
37.5°	573.8	730.6	817.6	823.4	830.1	821.5	827.2	830.1	833.9	832.0	832.0
40°	506.9	672.3	786.1	789.9	795.6	789.0	794.7	796.6	798.5	796.6	795.6
42.5°	457.2	608.2	752.6	757.4	753.6	758.4	760.3	764.1	761.2	757.4	757.4
45°	418.9	591.0	716.3	722.0	716.3	723.9	726.8	726.8	718.2	716.3	715.3
47.5°	406.5	556.6	679.9	679.9	677.1	686.6	691.4	684.7	676.1	673.3	673.3
50°	405.5	518.4	630.2	626.4	639.8	651.3	646.5	639.8	633.1	622.6	622.6
52.5°	368.2	471.5	566.2	580.5	601.5	608.2	600.6	593.9	582.4	577.6	573.8
55°	341.5	422.7	507.8	536.5	558.5	567.1	552.8	546.1	528.9	526.0	524.1
57.5°	335.6	352.0	454.3	490.6	517.4	516.4	507.8	495.4	481.1	478.2	477.2
60°	307.9	254.3	396.9	439.9	467.7	464.8	457.2	445.7	432.3	430.4	428.5
62.5°	279.2	184.5	331.8	380.7	419.9	418.9	412.2	395.0	385.4	380.7	376.8
65°	237.1	154.9	236.2	316.5	373.0	374.9	360.6	348.1	337.5	331.8	330.8
67.5°	180.7	126.2	159.7	263.9	328.0	326.1	307.9	302.2	288.8	285.9	280.2
70°	133.9	84.1	110.9	214.2	284.0	279.2	264.9	258.2	245.7	239.0	235.2
72.5°	110.9	67.9	81.3	166.4	239.0	233.3	220.9	213.2	202.7	197.0	193.2
75°	89.9	71.7	62.2	123.3	194.1	190.3	178.8	171.2	162.6	154.9	155.9
77.5°	66.0	66.9	49.7	90.8	153.9	148.2	141.5	132.0	128.1	120.5	120.5
80°	49.7	52.6	37.3	62.2	110.9	110.9	105.2	98.5	91.8	88.0	88.0
82.5°	33.5	33.5	27.7	39.2	75.5	72.7	68.8	66.9	63.1	61.2	61.2
85°	15.3	19.1	17.2	23.9	41.1	43.0	43.0	41.1	40.2	38.2	39.2
87.5°	4.8	8.6	10.5	13.4	21.0	22.0	22.9	22.9	22.9	23.9	23.9
90°	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.9	20.2	15.1	15.1
92.5°	15.9	42.9	70.0	76.8	108.0	149.5	170.2	149.2	107.1	75.5	72.6
95°	38.2	87.7	137.2	149.5	265.5	420.2	497.5	444.0	336.9	256.5	247.5
97.5°	66.0	109.7	153.4	164.3	357.7	615.6	744.5	710.6	642.9	592.2	574.9
100°	87.5	127.1	166.7	176.6	391.3	677.5	820.5	823.0	827.9	831.6	810.9
102.5°	105.8	142.8	179.7	188.9	406.7	696.9	842.0	885.1	971.4	1036.0	1018.3
105°	136.8	168.1	199.4	207.2	418.0	699.1	839.6	936.3	1129.6	1274.7	1265.2
107.5°	168.7	197.8	227.0	234.3	420.2	667.9	791.8	926.7	1196.5	1398.8	1401.1
110°	190.1	216.5	242.8	249.4	416.9	640.4	752.0	902.8	1204.4	1430.6	1440.5



TEST NUMBER: P935136

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	211.2	236.3	261.3	267.6	417.1	616.3	715.9	870.2	1178.8	1410.3	1425.5
115°	243.0	266.1	289.2	295.1	420.9	588.7	672.6	821.3	1118.6	1341.5	1362.6
117.5°	274.4	295.5	316.5	321.8	428.8	571.4	642.8	776.9	1045.2	1246.5	1269.8
120°	292.7	312.5	332.3	337.2	435.1	565.6	630.8	753.4	998.6	1182.4	1205.2
122.5°	310.7	330.7	350.6	355.6	444.2	562.5	621.6	732.0	952.8	1118.4	1140.7
125°	338.1	356.3	374.4	379.0	456.6	559.9	611.7	705.5	893.0	1033.6	1054.3
127.5°	360.3	378.7	397.1	401.7	468.9	558.5	603.4	683.9	844.9	965.7	983.1
130°	372.2	392.0	411.8	416.8	477.9	559.5	600.2	671.9	815.3	922.7	938.8
132.5°	384.6	404.4	424.2	429.1	485.2	559.9	597.3	661.5	789.8	886.1	900.5
135°	402.9	420.9	439.0	443.5	493.2	559.5	592.6	646.4	753.8	834.4	846.8
137.5°	421.6	439.5	457.3	461.7	505.1	562.9	591.8	637.2	728.0	796.2	806.4
140°	437.1	453.5	470.0	474.1	512.4	563.5	589.0	628.2	706.7	765.6	775.1
142.5°	449.0	464.2	479.4	483.3	518.5	565.5	589.0	623.4	692.4	744.1	752.3
145°	467.3	480.6	493.8	497.1	526.5	565.6	585.1	613.3	669.6	711.9	718.1
147.5°	485.7	498.6	511.4	514.6	538.1	569.4	585.1	607.3	651.6	684.9	690.1
150°	497.5	509.2	520.8	523.8	544.3	571.5	585.1	603.8	641.2	669.3	673.4
152.5°	509.8	518.6	527.5	529.7	548.2	572.8	585.1	601.1	633.0	657.0	660.2
155°	528.2	534.7	541.3	542.9	557.0	575.7	585.1	597.8	623.2	642.3	644.4
157.5°	541.7	548.1	554.4	556.0	565.7	578.6	585.1	594.9	614.7	629.6	631.0
160°	550.9	555.8	560.7	562.0	569.7	579.9	585.1	593.6	610.5	623.2	624.1
162.5°	559.9	563.7	567.4	568.4	573.9	581.4	585.1	592.3	606.5	617.2	618.0
165°	569.9	573.2	576.6	577.4	580.0	583.4	585.1	590.3	600.5	608.1	609.0
167.5°	579.1	580.7	582.3	582.7	584.8	587.6	589.0	592.4	599.1	604.1	604.5
170°	585.1	586.6	588.2	588.6	588.7	588.9	589.0	592.4	599.1	604.1	604.1
172.5°	588.2	588.6	588.9	589.0	589.0	589.0	589.0	591.7	597.0	601.0	600.7
175°	592.6	592.6	592.6	592.6	591.4	589.8	589.0	590.7	594.1	596.6	596.6
177.5°	592.6	592.6	592.6	592.6	591.7	590.4	589.8	591.1	593.8	595.8	595.4
180°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6



TEST NUMBER: P935136

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1036.7	1033.8	1036.7	1034.8	1035.7	1032.9	1024.3	1021.4	1024.3	1027.1	1027.1
5°	1049.1	1047.2	1049.1	1049.1	1048.2	1046.3	1036.7	1034.8	1036.7	1037.7	1035.7
7.5°	1053.0	1050.1	1053.0	1051.0	1051.0	1049.1	1039.6	1037.7	1038.6	1041.5	1038.6
10°	1053.0	1050.1	1053.0	1052.0	1051.0	1049.1	1039.6	1035.7	1035.7	1038.6	1035.7
12.5°	1048.2	1046.3	1048.2	1046.3	1046.3	1044.4	1034.8	1031.0	1031.9	1032.9	1029.1
15°	1040.5	1037.7	1040.5	1038.6	1039.6	1036.7	1026.2	1022.4	1022.4	1024.3	1017.5
17.5°	1029.1	1025.2	1029.1	1028.1	1027.1	1025.2	1015.6	1011.7	1010.8	1011.7	1007.0
20°	1015.6	1012.7	1015.6	1014.6	1014.6	1010.8	1001.2	996.4	996.4	996.4	991.7
22.5°	994.5	991.7	994.5	996.4	996.4	995.5	986.9	980.2	978.3	978.3	972.5
25°	970.6	967.8	970.6	970.6	969.7	970.6	967.8	963.9	961.1	958.2	952.5
27.5°	947.7	945.8	947.7	945.8	947.7	944.8	943.9	942.9	939.1	936.2	928.6
30°	924.7	922.8	924.7	922.8	920.9	919.0	914.2	912.3	916.1	914.2	901.8
32.5°	896.0	894.1	896.0	896.0	894.1	894.1	886.5	883.6	884.6	890.3	878.8
35°	866.4	863.5	866.4	865.5	866.4	863.5	858.8	857.8	854.0	860.7	852.1
37.5°	832.0	829.1	832.0	832.0	832.0	833.9	830.1	827.2	821.5	830.1	823.4
40°	796.6	792.8	796.6	795.6	796.6	798.5	796.6	794.7	789.0	795.6	789.9
42.5°	756.4	755.5	756.4	757.4	757.4	761.2	764.1	760.3	758.4	753.6	757.4
45°	713.4	711.5	713.4	715.3	716.3	718.2	726.8	726.8	723.9	716.3	722.0
47.5°	667.5	662.7	667.5	673.3	673.3	676.1	684.7	691.4	686.6	677.1	679.9
50°	618.8	619.7	618.8	622.6	622.6	633.1	639.8	646.5	651.3	639.8	626.4
52.5°	570.9	570.0	570.9	573.8	577.6	582.4	593.9	600.6	608.2	601.5	580.5
55°	523.1	525.0	523.1	524.1	526.0	528.9	546.1	552.8	567.1	558.5	536.5
57.5°	475.3	472.5	475.3	477.2	478.2	481.1	495.4	507.8	516.4	517.4	490.6
60°	419.9	416.0	419.9	428.5	430.4	432.3	445.7	457.2	464.8	467.7	439.9
62.5°	371.1	364.4	371.1	376.8	380.7	385.4	395.0	412.2	418.9	419.9	380.7
65°	319.4	316.5	319.4	330.8	331.8	337.5	348.1	360.6	374.9	373.0	316.5
67.5°	272.5	272.5	272.5	280.2	285.9	288.8	302.2	307.9	326.1	328.0	263.9
70°	229.5	228.5	229.5	235.2	239.0	245.7	258.2	264.9	279.2	284.0	214.2
72.5°	188.4	187.4	188.4	193.2	197.0	202.7	213.2	220.9	233.3	239.0	166.4
75°	152.0	150.1	152.0	155.9	154.9	162.6	171.2	178.8	190.3	194.1	123.3
77.5°	116.7	116.7	116.7	120.5	120.5	128.1	132.0	141.5	148.2	153.9	90.8
80°	87.0	86.1	87.0	88.0	88.0	91.8	98.5	105.2	110.9	110.9	62.2
82.5°	61.2	59.3	61.2	61.2	61.2	63.1	66.9	68.8	72.7	75.5	39.2
85°	38.2	38.2	38.2	39.2	38.2	40.2	41.1	43.0	43.0	41.1	23.9
87.5°	24.9	23.9	24.9	23.9	23.9	22.9	22.9	22.9	22.0	21.0	13.4
90°	15.1	15.1	15.1	15.1	15.1	20.2	26.9	30.2	26.0	17.5	11.1
92.5°	60.5	48.5	60.5	72.6	75.5	107.1	149.2	170.2	149.5	108.0	76.8
95°	211.0	174.6	211.0	247.5	256.5	336.9	444.0	497.5	420.2	265.5	149.5
97.5°	505.5	436.3	505.5	574.9	592.2	642.9	710.6	744.5	615.6	357.7	164.3
100°	728.4	645.9	728.4	810.9	831.6	827.9	823.0	820.5	677.5	391.3	176.6
102.5°	947.7	877.0	947.7	1018.3	1036.0	971.4	885.1	842.0	696.9	406.7	188.9
105°	1227.2	1189.2	1227.2	1265.2	1274.7	1129.6	936.3	839.6	699.1	418.0	207.2
107.5°	1410.3	1419.5	1410.3	1401.1	1398.8	1196.5	926.7	791.8	667.9	420.2	234.3
110°	1480.1	1519.7	1480.1	1440.5	1430.6	1204.4	902.8	752.0	640.4	416.9	249.4



TEST NUMBER: P935136

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1486.3	1547.1	1486.3	1425.5	1410.3	1178.8	870.2	715.9	616.3	417.1	267.6
115°	1446.9	1531.2	1446.9	1362.6	1341.5	1118.6	821.3	672.6	588.7	420.9	295.1
117.5°	1363.3	1456.9	1363.3	1269.8	1246.5	1045.2	776.9	642.8	571.4	428.8	321.8
120°	1296.0	1386.9	1296.0	1205.2	1182.4	998.6	753.4	630.8	565.6	435.1	337.2
122.5°	1230.4	1320.0	1230.4	1140.7	1118.4	952.8	732.0	621.6	562.5	444.2	355.6
125°	1136.8	1219.4	1136.8	1054.3	1033.6	893.0	705.5	611.7	559.9	456.6	379.0
127.5°	1052.8	1122.4	1052.8	983.1	965.7	844.9	683.9	603.4	558.5	468.9	401.7
130°	1003.1	1067.5	1003.1	938.8	922.7	815.3	671.9	600.2	559.5	477.9	416.8
132.5°	958.1	1015.8	958.1	900.5	886.1	789.8	661.5	597.3	559.9	485.2	429.1
135°	896.4	946.2	896.4	846.8	834.4	753.8	646.4	592.6	559.5	493.2	443.5
137.5°	847.1	887.7	847.1	806.4	796.2	728.0	637.2	591.8	562.9	505.1	461.7
140°	813.1	851.1	813.1	775.1	765.6	706.7	628.2	589.0	563.5	512.4	474.1
142.5°	785.0	817.7	785.0	752.3	744.1	692.4	623.4	589.0	565.5	518.5	483.3
145°	742.9	767.6	742.9	718.1	711.9	669.6	613.3	585.1	565.6	526.5	497.1
147.5°	710.5	731.0	710.5	690.1	684.9	651.6	607.3	585.1	569.4	538.1	514.6
150°	690.1	706.7	690.1	673.4	669.3	641.2	603.8	585.1	571.5	544.3	523.8
152.5°	672.7	685.3	672.7	660.2	657.0	633.0	601.1	585.1	572.8	548.2	529.7
155°	652.7	661.0	652.7	644.4	642.3	623.2	597.8	585.1	575.7	557.0	542.9
157.5°	636.9	642.8	636.9	631.0	629.6	614.7	594.9	585.1	578.6	565.7	556.0
160°	627.5	630.8	627.5	624.1	623.2	610.5	593.6	585.1	579.9	569.7	562.0
162.5°	621.2	624.4	621.2	618.0	617.2	606.5	592.3	585.1	581.4	573.9	568.4
165°	612.3	615.7	612.3	609.0	608.1	600.5	590.3	585.1	583.4	580.0	577.4
167.5°	605.8	607.3	605.8	604.5	604.1	599.1	592.4	589.0	587.6	584.8	582.7
170°	604.1	604.1	604.1	604.1	604.1	599.1	592.4	589.0	588.9	588.7	588.6
172.5°	599.4	598.2	599.4	600.7	601.0	597.0	591.7	589.0	589.0	589.0	589.0
175°	596.6	596.6	596.6	596.6	596.6	594.1	590.7	589.0	589.8	591.4	592.6
177.5°	594.1	592.6	594.1	595.4	595.8	593.8	591.1	589.8	590.4	591.7	592.6
180°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6



TEST NUMBER: P935136

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	1025.2	1019.4	1019.4	1009.8	1006.0	1003.1	998.4	984.0	980.2	976.4	982.1
5°	1033.8	1023.3	1015.6	998.4	984.0	978.3	960.1	925.7	902.7	885.5	876.0
7.5°	1035.7	1022.4	1007.9	981.1	946.7	931.4	876.0	812.9	795.6	780.3	770.8
10°	1033.8	1018.4	998.4	958.2	876.9	850.2	794.7	753.6	743.1	740.2	743.1
12.5°	1027.1	1012.7	985.0	918.0	804.3	786.1	753.6	729.7	727.8	732.5	758.4
15°	1015.6	1002.2	969.7	864.5	764.1	750.7	727.8	719.2	729.7	763.1	840.6
17.5°	1004.1	988.8	948.6	811.9	733.5	723.9	707.7	724.9	784.2	829.1	854.9
20°	988.8	970.6	924.7	773.7	711.5	702.9	695.2	772.7	817.6	833.9	848.2
22.5°	970.6	951.5	892.2	746.9	688.6	681.9	686.6	799.5	817.6	829.1	841.5
25°	946.7	930.5	854.0	725.8	670.4	662.7	680.9	796.6	807.1	810.0	834.9
27.5°	924.7	903.7	813.8	706.7	648.4	645.5	685.7	784.2	791.8	794.7	821.5
30°	898.0	866.4	768.9	686.6	625.4	624.5	686.6	768.9	767.0	774.6	801.4
32.5°	870.2	810.9	718.2	661.8	603.5	602.5	679.9	745.9	744.0	754.5	774.6
35°	844.4	767.9	649.4	633.1	575.7	576.7	663.7	719.2	720.1	729.7	742.1
37.5°	817.6	730.6	573.8	601.5	549.0	549.0	641.7	694.3	692.4	695.2	712.5
40°	786.1	672.3	506.9	560.4	524.1	521.2	614.9	667.5	660.8	659.9	683.8
42.5°	752.6	608.2	457.2	505.9	495.4	491.6	582.4	635.0	622.6	625.4	656.0
45°	716.3	591.0	418.9	427.5	465.8	462.9	547.0	597.7	589.1	596.8	628.3
47.5°	679.9	556.6	406.5	354.8	434.2	433.3	507.8	561.4	556.6	564.2	597.7
50°	630.2	518.4	405.5	304.1	398.8	402.7	461.0	526.0	526.0	532.7	568.1
52.5°	566.2	471.5	368.2	275.4	357.7	369.2	419.9	495.4	497.3	504.0	535.6
55°	507.8	422.7	341.5	253.4	308.9	333.7	379.7	463.8	467.7	474.4	503.1
57.5°	454.3	352.0	335.6	227.6	263.9	287.8	344.3	433.3	435.2	440.9	468.6
60°	396.9	254.3	307.9	199.8	224.7	242.9	311.7	396.9	403.6	407.4	431.3
62.5°	331.8	184.5	279.2	180.7	205.6	209.4	284.9	362.5	371.1	374.0	388.3
65°	236.2	154.9	237.1	164.5	185.5	186.5	256.3	327.0	334.7	339.4	350.1
67.5°	159.7	126.2	180.7	149.2	170.2	171.2	228.5	285.9	296.4	300.2	306.9
70°	110.9	84.1	133.9	132.9	153.0	154.9	198.9	248.6	258.2	261.0	264.9
72.5°	81.3	67.9	110.9	119.5	134.8	136.7	168.3	206.5	216.1	219.0	220.9
75°	62.2	71.7	89.9	104.2	114.7	115.7	137.7	168.3	175.0	176.9	177.9
77.5°	49.7	66.9	66.0	84.1	93.7	91.8	108.0	130.0	135.8	135.8	135.8
80°	37.3	52.6	49.7	60.2	68.8	66.9	77.5	92.8	94.7	96.6	95.6
82.5°	27.7	33.5	33.5	38.2	45.9	44.0	51.6	60.2	60.2	60.2	62.2
85°	17.2	19.1	15.3	20.1	25.8	24.9	28.7	32.5	33.5	33.5	31.6
87.5°	10.5	8.6	4.8	7.6	11.5	11.5	13.4	14.3	13.4	13.4	13.4
90°	10.3	7.2	4.0	7.2	10.3	11.1	17.5	26.0	30.2	26.9	20.2
92.5°	70.0	42.9	15.9	42.9	70.0	76.8	108.0	149.5	170.2	149.2	107.1
95°	137.2	87.7	38.2	87.7	137.2	149.5	265.5	420.2	497.5	444.0	336.9
97.5°	153.4	109.7	66.0	109.7	153.4	164.3	357.7	615.6	744.5	710.6	642.9
100°	166.7	127.1	87.5	127.1	166.7	176.6	391.3	677.5	820.5	823.0	827.9
102.5°	179.7	142.8	105.8	142.8	179.7	188.9	406.7	696.9	842.0	885.1	971.4
105°	199.4	168.1	136.8	168.1	199.4	207.2	418.0	699.1	839.6	936.3	1129.6
107.5°	227.0	197.8	168.7	197.8	227.0	234.3	420.2	667.9	791.8	926.7	1196.5
110°	242.8	216.5	190.1	216.5	242.8	249.4	416.9	640.4	752.0	902.8	1204.4



TEST NUMBER: P935136

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	261.3	236.3	211.2	236.3	261.3	267.6	417.1	616.3	715.9	870.2	1178.8
115°	289.2	266.1	243.0	266.1	289.2	295.1	420.9	588.7	672.6	821.3	1118.6
117.5°	316.5	295.5	274.4	295.5	316.5	321.8	428.8	571.4	642.8	776.9	1045.2
120°	332.3	312.5	292.7	312.5	332.3	337.2	435.1	565.6	630.8	753.4	998.6
122.5°	350.6	330.7	310.7	330.7	350.6	355.6	444.2	562.5	621.6	732.0	952.8
125°	374.4	356.3	338.1	356.3	374.4	379.0	456.6	559.9	611.7	705.5	893.0
127.5°	397.1	378.7	360.3	378.7	397.1	401.7	468.9	558.5	603.4	683.9	844.9
130°	411.8	392.0	372.2	392.0	411.8	416.8	477.9	559.5	600.2	671.9	815.3
132.5°	424.2	404.4	384.6	404.4	424.2	429.1	485.2	559.9	597.3	661.5	789.8
135°	439.0	420.9	402.9	420.9	439.0	443.5	493.2	559.5	592.6	646.4	753.8
137.5°	457.3	439.5	421.6	439.5	457.3	461.7	505.1	562.9	591.8	637.2	728.0
140°	470.0	453.5	437.1	453.5	470.0	474.1	512.4	563.5	589.0	628.2	706.7
142.5°	479.4	464.2	449.0	464.2	479.4	483.3	518.5	565.5	589.0	623.4	692.4
145°	493.8	480.6	467.3	480.6	493.8	497.1	526.5	565.6	585.1	613.3	669.6
147.5°	511.4	498.6	485.7	498.6	511.4	514.6	538.1	569.4	585.1	607.3	651.6
150°	520.8	509.2	497.5	509.2	520.8	523.8	544.3	571.5	585.1	603.8	641.2
152.5°	527.5	518.6	509.8	518.6	527.5	529.7	548.2	572.8	585.1	601.1	633.0
155°	541.3	534.7	528.2	534.7	541.3	542.9	557.0	575.7	585.1	597.8	623.2
157.5°	554.4	548.1	541.7	548.1	554.4	556.0	565.7	578.6	585.1	594.9	614.7
160°	560.7	555.8	550.9	555.8	560.7	562.0	569.7	579.9	585.1	593.6	610.5
162.5°	567.4	563.7	559.9	563.7	567.4	568.4	573.9	581.4	585.1	592.3	606.5
165°	576.6	573.2	569.9	573.2	576.6	577.4	580.0	583.4	585.1	590.3	600.5
167.5°	582.3	580.7	579.1	580.7	582.3	582.7	584.8	587.6	589.0	592.4	599.1
170°	588.2	586.6	585.1	586.6	588.2	588.6	588.7	588.9	589.0	592.4	599.1
172.5°	588.9	588.6	588.2	588.6	588.9	589.0	589.0	589.0	589.0	591.7	597.0
175°	592.6	592.6	592.6	592.6	592.6	592.6	591.4	589.8	589.0	590.7	594.1
177.5°	592.6	592.6	592.6	592.6	592.6	592.6	591.7	590.4	589.8	591.1	593.8
180°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6



TEST NUMBER: P935136

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	975.4	972.5	976.4	965.9	976.4	972.5	975.4	982.1	976.4	980.2	984.0
5°	855.9	851.1	835.8	823.4	835.8	851.1	855.9	876.0	885.5	902.7	925.7
7.5°	765.1	761.2	757.4	749.8	757.4	761.2	765.1	770.8	780.3	795.6	812.9
10°	745.0	745.9	751.7	750.7	751.7	745.9	745.0	743.1	740.2	743.1	753.6
12.5°	796.6	805.2	836.8	834.9	836.8	805.2	796.6	758.4	732.5	727.8	729.7
15°	855.9	858.8	865.5	866.4	865.5	858.8	855.9	840.6	763.1	729.7	719.2
17.5°	861.6	862.6	867.4	867.4	867.4	862.6	861.6	854.9	829.1	784.2	724.9
20°	856.8	858.8	868.3	870.2	868.3	858.8	856.8	848.2	833.9	817.6	772.7
22.5°	854.9	858.8	866.4	865.5	866.4	858.8	854.9	841.5	829.1	817.6	799.5
25°	845.4	845.4	846.3	847.3	846.3	845.4	845.4	834.9	810.0	807.1	796.6
27.5°	825.3	827.2	832.9	832.0	832.9	827.2	825.3	821.5	794.7	791.8	784.2
30°	807.1	805.2	800.4	796.6	800.4	805.2	807.1	801.4	774.6	767.0	768.9
32.5°	776.5	771.7	767.0	764.1	767.0	771.7	776.5	774.6	754.5	744.0	745.9
35°	740.2	741.1	740.2	737.3	740.2	741.1	740.2	742.1	729.7	720.1	719.2
37.5°	714.4	716.3	715.3	711.5	715.3	716.3	714.4	712.5	695.2	692.4	694.3
40°	687.6	688.6	687.6	684.7	687.6	688.6	687.6	683.8	659.9	660.8	667.5
42.5°	661.8	660.8	658.0	656.0	658.0	660.8	661.8	656.0	625.4	622.6	635.0
45°	632.1	633.1	627.4	624.5	627.4	633.1	632.1	628.3	596.8	589.1	597.7
47.5°	602.5	602.5	597.7	594.8	597.7	602.5	602.5	597.7	564.2	556.6	561.4
50°	570.9	570.0	563.3	562.3	563.3	570.0	570.9	568.1	532.7	526.0	526.0
52.5°	534.6	534.6	535.6	537.5	535.6	534.6	534.6	535.6	504.0	497.3	495.4
55°	503.1	504.0	510.7	512.6	510.7	504.0	503.1	503.1	474.4	467.7	463.8
57.5°	470.5	470.5	475.3	475.3	475.3	470.5	470.5	468.6	440.9	435.2	433.3
60°	433.3	435.2	439.0	438.0	439.0	435.2	433.3	431.3	407.4	403.6	396.9
62.5°	394.0	396.0	396.9	395.0	396.9	396.0	394.0	388.3	374.0	371.1	362.5
65°	352.9	354.8	355.8	353.9	355.8	354.8	352.9	350.1	339.4	334.7	327.0
67.5°	310.8	309.8	308.9	312.7	308.9	309.8	310.8	306.9	300.2	296.4	285.9
70°	267.7	267.7	266.8	268.7	266.8	267.7	267.7	264.9	261.0	258.2	248.6
72.5°	221.8	220.9	224.7	221.8	224.7	220.9	221.8	220.9	219.0	216.1	206.5
75°	176.9	178.8	176.9	179.8	176.9	178.8	176.9	177.9	176.9	175.0	168.3
77.5°	134.8	136.7	134.8	134.8	134.8	136.7	134.8	135.8	135.8	135.8	130.0
80°	95.6	94.7	94.7	93.7	94.7	94.7	95.6	95.6	96.6	94.7	92.8
82.5°	61.2	60.2	60.2	62.2	60.2	60.2	61.2	62.2	60.2	60.2	60.2
85°	33.5	34.4	32.5	32.5	32.5	34.4	33.5	31.6	33.5	33.5	32.5
87.5°	12.4	11.5	11.5	11.5	11.5	11.5	12.4	13.4	13.4	13.4	14.3
90°	15.1	15.1	15.1	15.1	15.1	15.1	15.1	20.2	26.9	30.2	26.0
92.5°	75.5	72.6	60.5	48.5	60.5	72.6	75.5	107.1	149.2	170.2	149.5
95°	256.5	247.5	211.0	174.6	211.0	247.5	256.5	336.9	444.0	497.5	420.2
97.5°	592.2	574.9	505.5	436.3	505.5	574.9	592.2	642.9	710.6	744.5	615.6
100°	831.6	810.9	728.4	645.9	728.4	810.9	831.6	827.9	823.0	820.5	677.5
102.5°	1036.0	1018.3	947.7	877.0	947.7	1018.3	1036.0	971.4	885.1	842.0	696.9
105°	1274.7	1265.2	1227.2	1189.2	1227.2	1265.2	1274.7	1129.6	936.3	839.6	699.1
107.5°	1398.8	1401.1	1410.3	1419.5	1410.3	1401.1	1398.8	1196.5	926.7	791.8	667.9
110°	1430.6	1440.5	1480.1	1519.7	1480.1	1440.5	1430.6	1204.4	902.8	752.0	640.4



TEST NUMBER: P935136

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1410.3	1425.5	1486.3	1547.1	1486.3	1425.5	1410.3	1178.8	870.2	715.9	616.3
115°	1341.5	1362.6	1446.9	1531.2	1446.9	1362.6	1341.5	1118.6	821.3	672.6	588.7
117.5°	1246.5	1269.8	1363.3	1456.9	1363.3	1269.8	1246.5	1045.2	776.9	642.8	571.4
120°	1182.4	1205.2	1296.0	1386.9	1296.0	1205.2	1182.4	998.6	753.4	630.8	565.6
122.5°	1118.4	1140.7	1230.4	1320.0	1230.4	1140.7	1118.4	952.8	732.0	621.6	562.5
125°	1033.6	1054.3	1136.8	1219.4	1136.8	1054.3	1033.6	893.0	705.5	611.7	559.9
127.5°	965.7	983.1	1052.8	1122.4	1052.8	983.1	965.7	844.9	683.9	603.4	558.5
130°	922.7	938.8	1003.1	1067.5	1003.1	938.8	922.7	815.3	671.9	600.2	559.5
132.5°	886.1	900.5	958.1	1015.8	958.1	900.5	886.1	789.8	661.5	597.3	559.9
135°	834.4	846.8	896.4	946.2	896.4	846.8	834.4	753.8	646.4	592.6	559.5
137.5°	796.2	806.4	847.1	887.7	847.1	806.4	796.2	728.0	637.2	591.8	562.9
140°	765.6	775.1	813.1	851.1	813.1	775.1	765.6	706.7	628.2	589.0	563.5
142.5°	744.1	752.3	785.0	817.7	785.0	752.3	744.1	692.4	623.4	589.0	565.5
145°	711.9	718.1	742.9	767.6	742.9	718.1	711.9	669.6	613.3	585.1	565.6
147.5°	684.9	690.1	710.5	731.0	710.5	690.1	684.9	651.6	607.3	585.1	569.4
150°	669.3	673.4	690.1	706.7	690.1	673.4	669.3	641.2	603.8	585.1	571.5
152.5°	657.0	660.2	672.7	685.3	672.7	660.2	657.0	633.0	601.1	585.1	572.8
155°	642.3	644.4	652.7	661.0	652.7	644.4	642.3	623.2	597.8	585.1	575.7
157.5°	629.6	631.0	636.9	642.8	636.9	631.0	629.6	614.7	594.9	585.1	578.6
160°	623.2	624.1	627.5	630.8	627.5	624.1	623.2	610.5	593.6	585.1	579.9
162.5°	617.2	618.0	621.2	624.4	621.2	618.0	617.2	606.5	592.3	585.1	581.4
165°	608.1	609.0	612.3	615.7	612.3	609.0	608.1	600.5	590.3	585.1	583.4
167.5°	604.1	604.5	605.8	607.3	605.8	604.5	604.1	599.1	592.4	589.0	587.6
170°	604.1	604.1	604.1	604.1	604.1	604.1	604.1	599.1	592.4	589.0	588.9
172.5°	601.0	600.7	599.4	598.2	599.4	600.7	601.0	597.0	591.7	589.0	589.0
175°	596.6	596.6	596.6	596.6	596.6	596.6	596.6	594.1	590.7	589.0	589.8
177.5°	595.8	595.4	594.1	592.6	594.1	595.4	595.8	593.8	591.1	589.8	590.4
180°	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6	592.6



TEST NUMBER: P935136

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1010.8	1010.8	1010.8	1010.8	1010.8
2.5°	998.4	1003.1	1006.0	1009.8	1019.4
5°	960.1	978.3	984.0	998.4	1015.6
7.5°	876.0	931.4	946.7	981.1	1007.9
10°	794.7	850.2	876.9	958.2	998.4
12.5°	753.6	786.1	804.3	918.0	985.0
15°	727.8	750.7	764.1	864.5	969.7
17.5°	707.7	723.9	733.5	811.9	948.6
20°	695.2	702.9	711.5	773.7	924.7
22.5°	686.6	681.9	688.6	746.9	892.2
25°	680.9	662.7	670.4	725.8	854.0
27.5°	685.7	645.5	648.4	706.7	813.8
30°	686.6	624.5	625.4	686.6	768.9
32.5°	679.9	602.5	603.5	661.8	718.2
35°	663.7	576.7	575.7	633.1	649.4
37.5°	641.7	549.0	549.0	601.5	573.8
40°	614.9	521.2	524.1	560.4	506.9
42.5°	582.4	491.6	495.4	505.9	457.2
45°	547.0	462.9	465.8	427.5	418.9
47.5°	507.8	433.3	434.2	354.8	406.5
50°	461.0	402.7	398.8	304.1	405.5
52.5°	419.9	369.2	357.7	275.4	368.2
55°	379.7	333.7	308.9	253.4	341.5
57.5°	344.3	287.8	263.9	227.6	335.6
60°	311.7	242.9	224.7	199.8	307.9
62.5°	284.9	209.4	205.6	180.7	279.2
65°	256.3	186.5	185.5	164.5	237.1
67.5°	228.5	171.2	170.2	149.2	180.7
70°	198.9	154.9	153.0	132.9	133.9
72.5°	168.3	136.7	134.8	119.5	110.9
75°	137.7	115.7	114.7	104.2	89.9
77.5°	108.0	91.8	93.7	84.1	66.0
80°	77.5	66.9	68.8	60.2	49.7
82.5°	51.6	44.0	45.9	38.2	33.5
85°	28.7	24.9	25.8	20.1	15.3
87.5°	13.4	11.5	11.5	7.6	4.8
90°	17.5	11.1	10.3	7.2	4.0
92.5°	108.0	76.8	70.0	42.9	15.9
95°	265.5	149.5	137.2	87.7	38.2
97.5°	357.7	164.3	153.4	109.7	66.0
100°	391.3	176.6	166.7	127.1	87.5
102.5°	406.7	188.9	179.7	142.8	105.8
105°	418.0	207.2	199.4	168.1	136.8
107.5°	420.2	234.3	227.0	197.8	168.7
110°	416.9	249.4	242.8	216.5	190.1



TEST NUMBER: P935136

CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	417.1	267.6	261.3	236.3	211.2
115°	420.9	295.1	289.2	266.1	243.0
117.5°	428.8	321.8	316.5	295.5	274.4
120°	435.1	337.2	332.3	312.5	292.7
122.5°	444.2	355.6	350.6	330.7	310.7
125°	456.6	379.0	374.4	356.3	338.1
127.5°	468.9	401.7	397.1	378.7	360.3
130°	477.9	416.8	411.8	392.0	372.2
132.5°	485.2	429.1	424.2	404.4	384.6
135°	493.2	443.5	439.0	420.9	402.9
137.5°	505.1	461.7	457.3	439.5	421.6
140°	512.4	474.1	470.0	453.5	437.1
142.5°	518.5	483.3	479.4	464.2	449.0
145°	526.5	497.1	493.8	480.6	467.3
147.5°	538.1	514.6	511.4	498.6	485.7
150°	544.3	523.8	520.8	509.2	497.5
152.5°	548.2	529.7	527.5	518.6	509.8
155°	557.0	542.9	541.3	534.7	528.2
157.5°	565.7	556.0	554.4	548.1	541.7
160°	569.7	562.0	560.7	555.8	550.9
162.5°	573.9	568.4	567.4	563.7	559.9
165°	580.0	577.4	576.6	573.2	569.9
167.5°	584.8	582.7	582.3	580.7	579.1
170°	588.7	588.6	588.2	586.6	585.1
172.5°	589.0	589.0	588.9	588.6	588.2
175°	591.4	592.6	592.6	592.6	592.6
177.5°	591.7	592.6	592.6	592.6	592.6
180°	592.6	592.6	592.6	592.6	592.6



TEST NUMBER: P935136
 CATALOG NUMBER: SQ4-FA-100U-075D-92765-1D-UNV-STD-W-4-6500K

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	11.63	12.41	12.67	13.46	14.86	14.43	15.21	15.46	16.25	17.65
	3H	12.10	12.80	13.15	13.85	15.27	15.76	16.46	16.80	17.51	18.93
	4H	12.29	12.95	13.35	14.01	15.43	16.19	16.86	17.25	17.91	19.33
	6H	12.41	13.02	13.47	14.07	15.51	16.47	17.08	17.53	18.13	19.57
	8H	12.40	12.99	13.48	14.06	15.49	16.53	17.12	17.60	18.19	19.62
	12H	12.37	12.93	13.45	13.99	15.45	16.57	17.12	17.64	18.18	19.64
4H	2H	12.65	13.31	13.71	14.36	15.79	14.83	15.50	15.89	16.55	17.97
	3H	13.67	14.22	14.74	15.30	16.74	16.32	16.87	17.39	17.95	19.39
	4H	13.94	14.45	15.02	15.52	16.98	16.84	17.34	17.91	18.41	19.88
	6H	14.06	14.50	15.15	15.59	17.04	17.19	17.63	18.28	18.72	20.17
	8H	14.06	14.47	15.15	15.56	17.03	17.29	17.70	18.38	18.78	20.25
	12H	14.03	14.40	15.13	15.49	16.97	17.34	17.71	18.44	18.80	20.28
8H	4H	14.38	14.79	15.47	15.87	17.34	16.96	17.36	18.04	18.45	19.92
	6H	14.64	14.98	15.75	16.10	17.57	17.38	17.72	18.49	18.84	20.31
	8H	14.68	14.98	15.80	16.09	17.57	17.53	17.82	18.64	18.93	20.42
	12H	14.66	14.92	15.78	16.03	17.55	17.62	17.88	18.73	18.98	20.51
12H	4H	14.38	14.75	15.49	15.85	17.33	16.92	17.28	18.02	18.38	19.86
	6H	14.70	14.99	15.81	16.10	17.59	17.38	17.67	18.49	18.78	20.27
	8H	14.76	15.02	15.88	16.13	17.65	17.53	17.79	18.65	18.90	20.42