

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: P935089

Luminaire Tested: SQ4-FA-100U-050D-B2750-1D-UNV-W2A-W-6-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P935089
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-B2750-1D-UNV-W2A-W-6-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

Summary

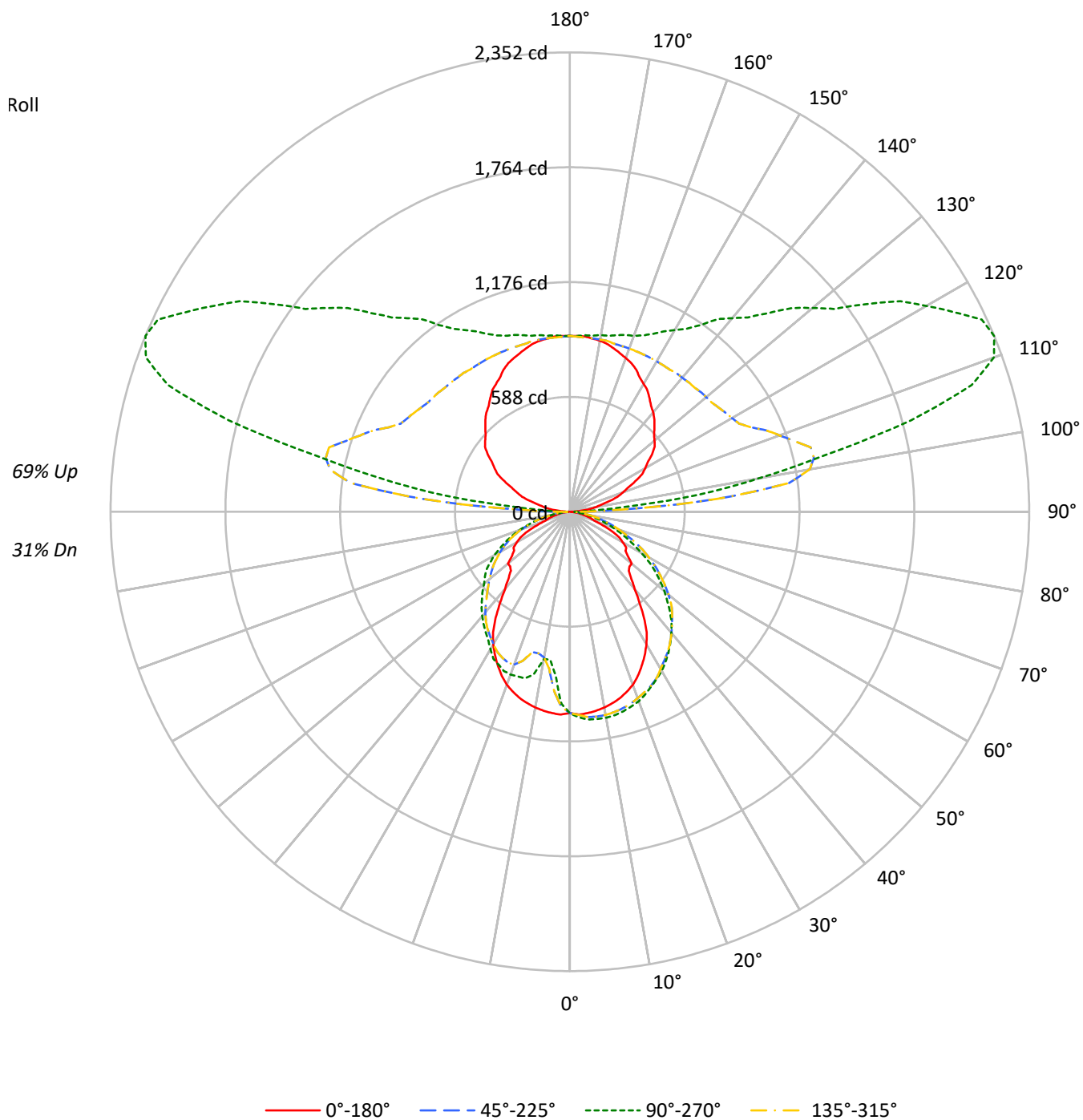
Lumens per Lamp: N/A
Luminaire Lumens: 8514.6 lumens
Efficiency: N/A
Efficacy: 137.8 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')
CIE Type: Semi-Indirect

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: P935089

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-W2A-W-6-3500K

Luminous Intensity Polar Plot



TEST NUMBER: P935089

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-W2A-W-6-3500K

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	103	103	103	103	92	92	92	92	73	73	73	55	55	55	39	39	39	39	39	39
1	94	89	86	82	84	81	77	75	64	62	60	49	47	46	35	34	33	33	33	33
2	85	78	72	67	76	70	65	61	56	53	50	43	40	38	30	29	28	28	28	28
3	78	69	62	56	70	62	56	51	49	45	42	38	35	32	27	25	24	24	24	24
4	71	61	53	47	64	55	48	43	44	39	35	34	30	28	24	22	20	20	20	20
5	65	54	46	40	58	49	42	37	39	34	30	30	27	24	22	19	18	18	18	18
6	60	48	40	35	54	44	37	32	35	30	26	27	24	21	20	17	15	15	15	15
7	55	43	36	30	49	39	33	28	32	27	23	25	21	18	18	15	14	14	14	14
8	51	39	32	27	46	36	29	24	29	24	20	22	19	16	16	14	12	12	12	12
9	47	36	28	23	43	32	26	22	26	21	18	20	17	15	15	13	11	11	11	11
10	44	33	26	21	40	30	23	19	24	19	16	19	15	13	14	12	10	10	10	10

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6374	6374	6374	6374
5°	6419	6434	6419	5059
10°	6373	6338	6373	4531
15°	6303	6201	6303	5177
20°	6168	6038	6168	5188
25°	5896	5801	5896	5079
30°	5545	5604	5545	4837
35°	4941	5354	4941	4572
40°	4115	5061	4115	4372
45°	3674	4718	3674	4141
50°	3900	4309	3900	3910
55°	3666	3868	3666	3776
60°	3775	3284	3775	3458
65°	3417	2716	3417	3035
70°	2359	2163	2359	2544
75°	2063	1599	2063	1915
80°	1650	1057	1650	1151
85°	930	560	930	475

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°

Vertical Angle: 45°

Luminance: 5635 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	93.0	1.1
10°-20°	264.1	3.1
20°-30°	408.2	4.8
30°-40°	487.3	5.7
40°-50°	490.2	5.8
50°-60°	426.5	5.0
60°-70°	302.4	3.6
70°-80°	160.0	1.9
80°-90°	43.3	0.5
90°-100°	439.1	5.2
100°-110°	1154.4	13.6
110°-120°	1197.0	14.1
120°-130°	960.2	11.3
130°-140°	753.4	8.8
140°-150°	578.2	6.8
150°-160°	416.4	4.9
160°-170°	254.8	3.0
170°-180°	86.1	1.0
0°-30°	765.3	9.0
0°-40°	1252.6	14.7
0°-60°	2169.3	25.5
0°-90°	2675.0	31.4
90°-120°	2790.5	32.8
90°-150°	5082.3	59.7
90°-180°	5840.0	68.6
0°-180°	8514.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1030	1030	1030	1030	1030	
5°	1035	1067	1035	839	1035	98
15°	988	1058	988	883	988	278
25°	870	986	870	864	870	400
35°	662	880	662	752	662	409
45°	427	725	427	636	427	342
55°	348	535	348	522	348	320
65°	242	323	242	361	242	231
75°	92	153	92	183	92	96
85°	16	39	16	33	16	21
90°	6	23	6	23	6	6
95°	58	265	58	265	58	64
105°	208	1808	208	1808	208	220
115°	369	2328	369	2328	369	365
125°	514	1854	514	1854	514	456
135°	612	1438	612	1438	612	474
145°	710	1167	710	1167	710	445
155°	803	1005	803	1005	803	369
165°	866	936	866	936	866	244
175°	901	907	901	907	901	86
180°	901	901	901	901	901	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1039.2	1039.2	1045.0	1046.9	1046.9	1044.0	1041.1	1044.0	1052.8	1055.7	1054.8
5°	1035.2	1043.0	1053.8	1055.7	1057.7	1056.7	1054.8	1056.7	1066.4	1068.4	1069.4
7.5°	1027.4	1042.1	1055.7	1058.6	1061.5	1058.6	1057.7	1059.6	1069.4	1071.3	1071.3
10°	1017.6	1038.2	1053.8	1055.7	1058.6	1055.7	1055.7	1059.6	1069.4	1071.3	1072.3
12.5°	1004.1	1032.3	1046.9	1048.8	1052.8	1051.8	1050.8	1054.8	1064.4	1066.4	1066.4
15°	988.5	1021.6	1035.2	1037.2	1044.0	1042.1	1042.1	1045.9	1056.7	1059.6	1058.6
17.5°	967.0	1008.0	1023.6	1026.5	1031.3	1030.3	1031.3	1035.2	1045.0	1046.9	1047.9
20°	942.6	989.4	1008.0	1010.9	1015.7	1015.7	1015.7	1020.6	1030.3	1034.2	1034.2
22.5°	909.5	969.9	989.4	991.4	997.2	997.2	999.1	1006.0	1014.7	1015.7	1015.7
25°	870.5	948.5	965.0	970.9	976.8	979.7	982.6	986.5	989.4	988.5	989.4
27.5°	829.6	921.1	942.6	946.5	954.4	957.3	961.2	962.1	963.1	966.0	964.1
30°	783.7	883.1	915.3	919.2	931.9	933.8	929.9	931.9	936.7	938.8	940.7
32.5°	732.1	826.7	887.0	895.8	907.6	901.7	900.7	903.6	911.4	911.4	913.4
35°	661.9	782.8	860.8	868.5	877.3	870.5	874.4	875.4	880.2	883.1	882.2
37.5°	584.9	744.8	833.4	839.3	846.1	837.3	843.2	846.1	850.0	848.1	848.1
40°	516.7	685.3	801.3	805.1	811.1	804.2	810.1	812.0	814.0	812.0	811.1
42.5°	466.0	620.0	767.2	772.0	768.1	773.0	775.0	778.9	776.0	772.0	772.0
45°	426.9	602.4	730.1	736.0	730.1	737.9	740.8	740.8	732.1	730.1	729.2
47.5°	414.2	567.3	693.1	693.1	690.1	699.9	704.8	698.0	689.2	686.2	686.2
50°	413.3	528.3	642.4	638.5	652.1	663.9	658.9	652.1	645.4	634.6	634.6
52.5°	375.3	480.5	577.0	591.7	613.2	620.0	612.2	605.3	593.6	588.8	584.9
55°	348.0	430.8	517.6	546.9	569.3	578.0	563.5	556.6	539.1	536.1	534.2
57.5°	342.2	358.7	463.0	500.1	527.3	526.4	517.6	504.9	490.3	487.4	486.4
60°	313.9	259.3	404.6	448.5	476.7	473.7	466.0	454.3	440.6	438.7	436.7
62.5°	284.6	188.2	338.3	388.0	427.9	426.9	420.2	402.6	392.8	388.0	384.1
65°	241.8	157.9	240.8	322.7	380.1	382.1	367.5	354.8	344.1	338.3	337.3
67.5°	184.2	128.7	162.8	269.1	334.4	332.4	313.9	308.0	294.4	291.5	285.7
70°	136.4	85.8	113.1	218.3	289.5	284.6	270.1	263.2	250.5	243.7	239.8
72.5°	113.1	69.2	82.8	169.6	243.7	237.9	225.2	217.3	206.7	200.8	196.9
75°	91.7	73.1	63.4	125.8	197.9	194.0	182.3	174.5	165.7	157.9	158.9
77.5°	67.2	68.2	50.7	92.6	157.0	151.1	144.3	134.5	130.6	122.9	122.9
80°	50.7	53.6	38.0	63.4	113.1	113.1	107.3	100.4	93.6	89.7	89.7
82.5°	34.1	34.1	28.3	39.9	77.0	74.1	70.2	68.2	64.3	62.4	62.4
85°	15.6	19.5	17.5	24.3	42.0	43.9	43.9	42.0	41.0	39.0	39.9
87.5°	4.8	8.8	10.8	13.7	21.4	22.4	23.4	23.4	23.4	24.3	24.3
90°	6.0	10.9	15.7	17.0	26.6	39.5	45.9	40.8	30.6	23.0	23.0
92.5°	24.2	65.3	106.4	116.7	164.1	227.1	258.7	226.7	162.8	114.8	110.3
95°	58.0	133.2	208.5	227.3	403.7	638.8	756.3	674.9	512.0	389.9	376.1
97.5°	100.4	166.8	233.1	249.7	543.7	935.8	1131.8	1080.3	977.4	900.2	873.8
100°	133.0	193.2	253.4	268.4	594.7	1029.7	1247.2	1251.0	1258.5	1264.2	1232.8
102.5°	160.9	217.1	273.2	287.2	618.1	1059.3	1279.9	1345.5	1476.6	1574.9	1548.1
105°	207.9	255.5	303.1	315.0	635.5	1062.7	1276.3	1423.3	1717.2	1937.6	1923.2
107.5°	256.3	300.7	345.1	356.1	638.7	1015.3	1203.7	1408.7	1818.7	2126.3	2129.8
110°	289.0	329.0	369.1	379.1	633.8	973.5	1143.2	1372.4	1830.8	2174.6	2189.6

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	321.0	359.2	397.4	406.9	634.0	936.8	1088.2	1322.8	1792.0	2143.8	2166.9
115°	369.4	404.6	439.7	448.6	639.8	894.8	1022.3	1248.3	1700.3	2039.3	2071.3
117.5°	417.2	449.1	481.1	489.1	651.7	868.5	976.9	1180.9	1588.8	1894.7	1930.2
120°	445.0	475.1	505.1	512.7	661.4	859.7	958.8	1145.2	1517.8	1797.4	1831.9
122.5°	472.2	502.5	532.9	540.5	675.3	855.0	945.0	1112.8	1448.4	1700.0	1734.1
125°	513.9	541.6	569.3	576.2	694.1	851.3	929.9	1072.4	1357.5	1571.3	1602.7
127.5°	547.8	575.7	603.7	610.7	712.8	849.0	917.2	1039.5	1284.3	1467.9	1494.4
130°	565.9	596.0	626.1	633.6	726.6	850.4	912.3	1021.2	1239.2	1402.6	1427.0
132.5°	584.6	614.7	644.8	652.3	737.6	851.3	908.0	1005.6	1200.7	1347.0	1368.9
135°	612.4	639.8	667.3	674.1	749.7	850.4	900.8	982.5	1145.8	1268.4	1287.3
137.5°	640.8	667.9	695.2	701.9	767.8	855.7	899.6	968.7	1106.8	1210.4	1225.8
140°	664.4	689.4	714.4	720.6	778.9	856.5	895.4	955.0	1074.3	1163.8	1178.2
142.5°	682.6	705.7	728.8	734.6	788.2	859.6	895.4	947.8	1052.5	1131.1	1143.5
145°	710.4	730.5	750.7	755.7	800.3	859.7	889.3	932.2	1017.9	1082.2	1091.6
147.5°	738.2	757.8	777.3	782.3	817.9	865.5	889.3	923.1	990.5	1041.1	1048.8
150°	756.3	774.0	791.8	796.2	827.2	868.6	889.3	917.8	974.7	1017.4	1023.7
152.5°	775.1	788.6	801.9	805.3	833.3	870.6	889.3	913.7	962.3	998.7	1003.5
155°	802.9	812.8	822.7	825.2	846.6	875.1	889.3	908.7	947.4	976.4	979.6
157.5°	823.5	833.1	842.7	845.2	859.9	879.6	889.3	904.4	934.5	957.1	959.3
160°	837.3	844.9	852.4	854.3	866.0	881.6	889.3	902.2	928.0	947.4	948.7
162.5°	851.3	856.9	862.5	864.0	872.4	883.7	889.3	900.2	922.0	938.3	939.4
165°	866.4	871.4	876.6	877.8	881.7	886.8	889.3	897.1	912.7	924.4	925.7
167.5°	880.2	882.7	885.1	885.7	888.9	893.2	895.4	900.5	910.7	918.3	918.9
170°	889.3	891.8	894.2	894.8	895.0	895.3	895.4	900.5	910.7	918.3	918.3
172.5°	894.2	894.7	895.3	895.4	895.4	895.4	895.4	899.4	907.5	913.5	913.0
175°	900.8	900.8	900.8	900.8	898.9	896.5	895.4	897.9	903.0	906.9	906.9
177.5°	900.8	900.8	900.8	900.8	899.4	897.6	896.6	898.7	902.6	905.6	905.0
180°	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8

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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1056.7	1053.8	1056.7	1054.8	1055.7	1052.8	1044.0	1041.1	1044.0	1046.9	1046.9
5°	1069.4	1067.4	1069.4	1069.4	1068.4	1066.4	1056.7	1054.8	1056.7	1057.7	1055.7
7.5°	1073.3	1070.4	1073.3	1071.3	1071.3	1069.4	1059.6	1057.7	1058.6	1061.5	1058.6
10°	1073.3	1070.4	1073.3	1072.3	1071.3	1069.4	1059.6	1055.7	1055.7	1058.6	1055.7
12.5°	1068.4	1066.4	1068.4	1066.4	1066.4	1064.4	1054.8	1050.8	1051.8	1052.8	1048.8
15°	1060.6	1057.7	1060.6	1058.6	1059.6	1056.7	1045.9	1042.1	1042.1	1044.0	1037.2
17.5°	1048.8	1045.0	1048.8	1047.9	1046.9	1045.0	1035.2	1031.3	1030.3	1031.3	1026.5
20°	1035.2	1032.3	1035.2	1034.2	1034.2	1030.3	1020.6	1015.7	1015.7	1015.7	1010.9
22.5°	1013.8	1010.9	1013.8	1015.7	1015.7	1014.7	1006.0	999.1	997.2	997.2	991.4
25°	989.4	986.5	989.4	989.4	988.5	989.4	986.5	982.6	979.7	976.8	970.9
27.5°	966.0	964.1	966.0	964.1	966.0	963.1	962.1	961.2	957.3	954.4	946.5
30°	942.6	940.7	942.6	940.7	938.8	936.7	931.9	929.9	933.8	931.9	919.2
32.5°	913.4	911.4	913.4	913.4	911.4	911.4	903.6	900.7	901.7	907.6	895.8
35°	883.1	880.2	883.1	882.2	883.1	880.2	875.4	874.4	870.5	877.3	868.5
37.5°	848.1	845.2	848.1	848.1	848.1	850.0	846.1	843.2	837.3	846.1	839.3
40°	812.0	808.1	812.0	811.1	812.0	814.0	812.0	810.1	804.2	811.1	805.1
42.5°	771.0	770.1	771.0	772.0	772.0	776.0	778.9	775.0	773.0	768.1	772.0
45°	727.2	725.2	727.2	729.2	730.1	732.1	740.8	740.8	737.9	730.1	736.0
47.5°	680.4	675.5	680.4	686.2	686.2	689.2	698.0	704.8	699.9	690.1	693.1
50°	630.7	631.7	630.7	634.6	634.6	645.4	652.1	658.9	663.9	652.1	638.5
52.5°	582.0	581.0	582.0	584.9	588.8	593.6	605.3	612.2	620.0	613.2	591.7
55°	533.2	535.2	533.2	534.2	536.1	539.1	556.6	563.5	578.0	569.3	546.9
57.5°	484.5	481.6	484.5	486.4	487.4	490.3	504.9	517.6	526.4	527.3	500.1
60°	427.9	424.0	427.9	436.7	438.7	440.6	454.3	466.0	473.7	476.7	448.5
62.5°	378.2	371.4	378.2	384.1	388.0	392.8	402.6	420.2	426.9	427.9	388.0
65°	325.6	322.7	325.6	337.3	338.3	344.1	354.8	367.5	382.1	380.1	322.7
67.5°	277.8	277.8	277.8	285.7	291.5	294.4	308.0	313.9	332.4	334.4	269.1
70°	233.9	232.9	233.9	239.8	243.7	250.5	263.2	270.1	284.6	289.5	218.3
72.5°	192.1	191.1	192.1	196.9	200.8	206.7	217.3	225.2	237.9	243.7	169.6
75°	155.0	153.0	155.0	158.9	157.9	165.7	174.5	182.3	194.0	197.9	125.8
77.5°	118.9	118.9	118.9	122.9	122.9	130.6	134.5	144.3	151.1	157.0	92.6
80°	88.7	87.7	88.7	89.7	89.7	93.6	100.4	107.3	113.1	113.1	63.4
82.5°	62.4	60.5	62.4	62.4	62.4	64.3	68.2	70.2	74.1	77.0	39.9
85°	39.0	39.0	39.0	39.9	39.0	41.0	42.0	43.9	43.9	42.0	24.3
87.5°	25.4	24.3	25.4	24.3	24.3	23.4	23.4	23.4	22.4	21.4	13.7
90°	23.0	23.0	23.0	23.0	23.0	30.6	40.8	45.9	39.5	26.6	17.0
92.5°	92.0	73.7	92.0	110.3	114.8	162.8	226.7	258.7	227.1	164.1	116.7
95°	320.7	265.4	320.7	376.1	389.9	512.0	674.9	756.3	638.8	403.7	227.3
97.5°	768.5	663.2	768.5	873.8	900.2	977.4	1080.3	1131.8	935.8	543.7	249.7
100°	1107.3	981.8	1107.3	1232.8	1264.2	1258.5	1251.0	1247.2	1029.7	594.7	268.4
102.5°	1440.5	1333.1	1440.5	1548.1	1574.9	1476.6	1345.5	1279.9	1059.3	618.1	287.2
105°	1865.4	1807.7	1865.4	1923.2	1937.6	1717.2	1423.3	1276.3	1062.7	635.5	315.0
107.5°	2143.8	2157.8	2143.8	2129.8	2126.3	1818.7	1408.7	1203.7	1015.3	638.7	356.1
110°	2249.9	2310.1	2249.9	2189.6	2174.6	1830.8	1372.4	1143.2	973.5	633.8	379.1

TEST NUMBER: P935089

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2259.3	2351.8	2259.3	2166.9	2143.8	1792.0	1322.8	1088.2	936.8	634.0	406.9
115°	2199.4	2327.6	2199.4	2071.3	2039.3	1700.3	1248.3	1022.3	894.8	639.8	448.6
117.5°	2072.4	2214.6	2072.4	1930.2	1894.7	1588.8	1180.9	976.9	868.5	651.7	489.1
120°	1970.1	2108.2	1970.1	1831.9	1797.4	1517.8	1145.2	958.8	859.7	661.4	512.7
122.5°	1870.4	2006.6	1870.4	1734.1	1700.0	1448.4	1112.8	945.0	855.0	675.3	540.5
125°	1728.1	1853.6	1728.1	1602.7	1571.3	1357.5	1072.4	929.9	851.3	694.1	576.2
127.5°	1600.3	1706.1	1600.3	1494.4	1467.9	1284.3	1039.5	917.2	849.0	712.8	610.7
130°	1524.9	1622.7	1524.9	1427.0	1402.6	1239.2	1021.2	912.3	850.4	726.6	633.6
132.5°	1456.5	1544.1	1456.5	1368.9	1347.0	1200.7	1005.6	908.0	851.3	737.6	652.3
135°	1362.8	1438.3	1362.8	1287.3	1268.4	1145.8	982.5	900.8	850.4	749.7	674.1
137.5°	1287.6	1349.4	1287.6	1225.8	1210.4	1106.8	968.7	899.6	855.7	767.8	701.9
140°	1236.1	1293.8	1236.1	1178.2	1163.8	1074.3	955.0	895.4	856.5	778.9	720.6
142.5°	1193.3	1243.0	1193.3	1143.5	1131.1	1052.5	947.8	895.4	859.6	788.2	734.6
145°	1129.3	1166.9	1129.3	1091.6	1082.2	1017.9	932.2	889.3	859.7	800.3	755.7
147.5°	1080.0	1111.2	1080.0	1048.8	1041.1	990.5	923.1	889.3	865.5	817.9	782.3
150°	1049.0	1074.3	1049.0	1023.7	1017.4	974.7	917.8	889.3	868.6	827.2	796.2
152.5°	1022.6	1041.7	1022.6	1003.5	998.7	962.3	913.7	889.3	870.6	833.3	805.3
155°	992.2	1004.8	992.2	979.6	976.4	947.4	908.7	889.3	875.1	846.6	825.2
157.5°	968.1	976.9	968.1	959.3	957.1	934.5	904.4	889.3	879.6	859.9	845.2
160°	953.8	958.8	953.8	948.7	947.4	928.0	902.2	889.3	881.6	866.0	854.3
162.5°	944.3	949.1	944.3	939.4	938.3	922.0	900.2	889.3	883.7	872.4	864.0
165°	930.8	935.9	930.8	925.7	924.4	912.7	897.1	889.3	886.8	881.7	877.8
167.5°	921.0	923.2	921.0	918.9	918.3	910.7	900.5	895.4	893.2	888.9	885.7
170°	918.3	918.3	918.3	918.3	918.3	910.7	900.5	895.4	895.3	895.0	894.8
172.5°	911.2	909.3	911.2	913.0	913.5	907.5	899.4	895.4	895.4	895.4	895.4
175°	906.9	906.9	906.9	906.9	906.9	903.0	897.9	895.4	896.5	898.9	900.8
177.5°	902.9	900.8	902.9	905.0	905.6	902.6	898.7	896.6	897.6	899.4	900.8
180°	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8

TEST NUMBER: P935089

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1045.0	1039.2	1039.2	1029.4	1025.5	1022.6	1017.6	1003.1	999.1	995.3	1001.1
5°	1053.8	1043.0	1035.2	1017.6	1003.1	997.2	978.7	943.6	920.2	902.6	892.9
7.5°	1055.7	1042.1	1027.4	1000.1	965.0	949.4	892.9	828.6	811.1	795.5	785.7
10°	1053.8	1038.2	1017.6	976.8	893.9	866.6	810.1	768.1	757.4	754.5	757.4
12.5°	1046.9	1032.3	1004.1	935.8	819.8	801.3	768.1	743.8	741.8	746.7	773.0
15°	1035.2	1021.6	988.5	881.2	778.9	765.2	741.8	733.0	743.8	777.9	856.9
17.5°	1023.6	1008.0	967.0	827.6	747.7	737.9	721.3	738.9	799.3	845.2	871.4
20°	1008.0	989.4	942.6	788.6	725.2	716.5	708.6	787.6	833.4	850.0	864.6
22.5°	989.4	969.9	909.5	761.3	701.8	695.1	699.9	814.9	833.4	845.2	857.9
25°	965.0	948.5	870.5	739.8	683.3	675.5	694.1	812.0	822.7	825.7	851.0
27.5°	942.6	921.1	829.6	720.4	661.0	658.0	698.9	799.3	807.2	810.1	837.3
30°	915.3	883.1	783.7	699.9	637.5	636.5	699.9	783.7	781.8	789.5	816.9
32.5°	887.0	826.7	732.1	674.5	615.1	614.2	693.1	760.4	758.4	769.1	789.5
35°	860.8	782.8	661.9	645.4	586.8	587.8	676.5	733.0	734.0	743.8	756.4
37.5°	833.4	744.8	584.9	613.2	559.5	559.5	654.1	707.7	705.7	708.6	726.3
40°	801.3	685.3	516.7	571.2	534.2	531.3	626.7	680.4	673.6	672.6	697.0
42.5°	767.2	620.0	466.0	515.7	504.9	501.1	593.6	647.3	634.6	637.5	668.7
45°	730.1	602.4	426.9	435.8	474.7	471.8	557.6	609.2	600.5	608.2	640.4
47.5°	693.1	567.3	414.2	361.6	442.5	441.6	517.6	572.2	567.3	575.1	609.2
50°	642.4	528.3	413.3	310.0	406.5	410.4	469.9	536.1	536.1	542.9	579.1
52.5°	577.0	480.5	375.3	280.7	364.5	376.3	427.9	504.9	506.9	513.8	545.8
55°	517.6	430.8	348.0	258.3	314.8	340.2	387.0	472.8	476.7	483.5	512.7
57.5°	463.0	358.7	342.2	232.0	269.1	293.4	351.0	441.6	443.5	449.4	477.6
60°	404.6	259.3	313.9	203.7	229.1	247.6	317.7	404.6	411.3	415.2	439.6
62.5°	338.3	188.2	284.6	184.2	209.6	213.5	290.5	369.5	378.2	381.1	395.7
65°	240.8	157.9	241.8	167.6	189.1	190.1	261.2	333.3	341.2	346.0	356.8
67.5°	162.8	128.7	184.2	152.0	173.5	174.5	232.9	291.5	302.2	306.1	312.9
70°	113.1	85.8	136.4	135.5	156.0	157.9	202.7	253.5	263.2	266.1	270.1
72.5°	82.8	69.2	113.1	121.8	137.4	139.4	171.6	210.6	220.4	223.3	225.2
75°	63.4	73.1	91.7	106.3	117.0	117.9	140.4	171.6	178.4	180.3	181.3
77.5°	50.7	68.2	67.2	85.8	95.5	93.6	110.2	132.6	138.4	138.4	138.4
80°	38.0	53.6	50.7	61.4	70.2	68.2	79.0	94.6	96.5	98.5	97.5
82.5°	28.3	34.1	34.1	39.0	46.8	44.9	52.6	61.4	61.4	61.4	63.4
85°	17.5	19.5	15.6	20.4	26.4	25.4	29.3	33.1	34.1	34.1	32.2
87.5°	10.8	8.8	4.8	7.8	11.7	11.7	13.7	14.6	13.7	13.7	13.7
90°	15.7	10.9	6.0	10.9	15.7	17.0	26.6	39.5	45.9	40.8	30.6
92.5°	106.4	65.3	24.2	65.3	106.4	116.7	164.1	227.1	258.7	226.7	162.8
95°	208.5	133.2	58.0	133.2	208.5	227.3	403.7	638.8	756.3	674.9	512.0
97.5°	233.1	166.8	100.4	166.8	233.1	249.7	543.7	935.8	1131.8	1080.3	977.4
100°	253.4	193.2	133.0	193.2	253.4	268.4	594.7	1029.7	1247.2	1251.0	1258.5
102.5°	273.2	217.1	160.9	217.1	273.2	287.2	618.1	1059.3	1279.9	1345.5	1476.6
105°	303.1	255.5	207.9	255.5	303.1	315.0	635.5	1062.7	1276.3	1423.3	1717.2
107.5°	345.1	300.7	256.3	300.7	345.1	356.1	638.7	1015.3	1203.7	1408.7	1818.7
110°	369.1	329.0	289.0	329.0	369.1	379.1	633.8	973.5	1143.2	1372.4	1830.8



TEST NUMBER: P935089

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	397.4	359.2	321.0	359.2	397.4	406.9	634.0	936.8	1088.2	1322.8	1792.0
115°	439.7	404.6	369.4	404.6	439.7	448.6	639.8	894.8	1022.3	1248.3	1700.3
117.5°	481.1	449.1	417.2	449.1	481.1	489.1	651.7	868.5	976.9	1180.9	1588.8
120°	505.1	475.1	445.0	475.1	505.1	512.7	661.4	859.7	958.8	1145.2	1517.8
122.5°	532.9	502.5	472.2	502.5	532.9	540.5	675.3	855.0	945.0	1112.8	1448.4
125°	569.3	541.6	513.9	541.6	569.3	576.2	694.1	851.3	929.9	1072.4	1357.5
127.5°	603.7	575.7	547.8	575.7	603.7	610.7	712.8	849.0	917.2	1039.5	1284.3
130°	626.1	596.0	565.9	596.0	626.1	633.6	726.6	850.4	912.3	1021.2	1239.2
132.5°	644.8	614.7	584.6	614.7	644.8	652.3	737.6	851.3	908.0	1005.6	1200.7
135°	667.3	639.8	612.4	639.8	667.3	674.1	749.7	850.4	900.8	982.5	1145.8
137.5°	695.2	667.9	640.8	667.9	695.2	701.9	767.8	855.7	899.6	968.7	1106.8
140°	714.4	689.4	664.4	689.4	714.4	720.6	778.9	856.5	895.4	955.0	1074.3
142.5°	728.8	705.7	682.6	705.7	728.8	734.6	788.2	859.6	895.4	947.8	1052.5
145°	750.7	730.5	710.4	730.5	750.7	755.7	800.3	859.7	889.3	932.2	1017.9
147.5°	777.3	757.8	738.2	757.8	777.3	782.3	817.9	865.5	889.3	923.1	990.5
150°	791.8	774.0	756.3	774.0	791.8	796.2	827.2	868.6	889.3	917.8	974.7
152.5°	801.9	788.6	775.1	788.6	801.9	805.3	833.3	870.6	889.3	913.7	962.3
155°	822.7	812.8	802.9	812.8	822.7	825.2	846.6	875.1	889.3	908.7	947.4
157.5°	842.7	833.1	823.5	833.1	842.7	845.2	859.9	879.6	889.3	904.4	934.5
160°	852.4	844.9	837.3	844.9	852.4	854.3	866.0	881.6	889.3	902.2	928.0
162.5°	862.5	856.9	851.3	856.9	862.5	864.0	872.4	883.7	889.3	900.2	922.0
165°	876.6	871.4	866.4	871.4	876.6	877.8	881.7	886.8	889.3	897.1	912.7
167.5°	885.1	882.7	880.2	882.7	885.1	885.7	888.9	893.2	895.4	900.5	910.7
170°	894.2	891.8	889.3	891.8	894.2	894.8	895.0	895.3	895.4	900.5	910.7
172.5°	895.3	894.7	894.2	894.7	895.3	895.4	895.4	895.4	895.4	899.4	907.5
175°	900.8	900.8	900.8	900.8	900.8	900.8	898.9	896.5	895.4	897.9	903.0
177.5°	900.8	900.8	900.8	900.8	900.8	900.8	899.4	897.6	896.6	898.7	902.6
180°	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8

TEST NUMBER: P935089

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	994.3	991.4	995.3	984.5	995.3	991.4	994.3	1001.1	995.3	999.1	1003.1
5°	872.5	867.5	851.9	839.3	851.9	867.5	872.5	892.9	902.6	920.2	943.6
7.5°	779.9	776.0	772.0	764.3	772.0	776.0	779.9	785.7	795.5	811.1	828.6
10°	759.4	760.4	766.2	765.2	766.2	760.4	759.4	757.4	754.5	757.4	768.1
12.5°	812.0	820.7	852.9	851.0	852.9	820.7	812.0	773.0	746.7	741.8	743.8
15°	872.5	875.4	882.2	883.1	882.2	875.4	872.5	856.9	777.9	743.8	733.0
17.5°	878.3	879.3	884.1	884.1	884.1	879.3	878.3	871.4	845.2	799.3	738.9
20°	873.5	875.4	885.1	887.0	885.1	875.4	873.5	864.6	850.0	833.4	787.6
22.5°	871.4	875.4	883.1	882.2	883.1	875.4	871.4	857.9	845.2	833.4	814.9
25°	861.7	861.7	862.7	863.7	862.7	861.7	861.7	851.0	825.7	822.7	812.0
27.5°	841.3	843.2	849.0	848.1	849.0	843.2	841.3	837.3	810.1	807.2	799.3
30°	822.7	820.7	815.9	812.0	815.9	820.7	822.7	816.9	789.5	781.8	783.7
32.5°	791.6	786.6	781.8	778.9	781.8	786.6	791.6	789.5	769.1	758.4	760.4
35°	754.5	755.4	754.5	751.6	754.5	755.4	754.5	756.4	743.8	734.0	733.0
37.5°	728.2	730.1	729.2	725.2	729.2	730.1	728.2	726.3	708.6	705.7	707.7
40°	700.9	701.8	700.9	698.0	700.9	701.8	700.9	697.0	672.6	673.6	680.4
42.5°	674.5	673.6	670.6	668.7	670.6	673.6	674.5	668.7	637.5	634.6	647.3
45°	644.4	645.4	639.4	636.5	639.4	645.4	644.4	640.4	608.2	600.5	609.2
47.5°	614.2	614.2	609.2	606.3	609.2	614.2	614.2	609.2	575.1	567.3	572.2
50°	582.0	581.0	574.1	573.2	574.1	581.0	582.0	579.1	542.9	536.1	536.1
52.5°	544.9	544.9	545.8	547.9	545.8	544.9	544.9	545.8	513.8	506.9	504.9
55°	512.7	513.8	520.5	522.5	520.5	513.8	512.7	512.7	483.5	476.7	472.8
57.5°	479.6	479.6	484.5	484.5	484.5	479.6	479.6	477.6	449.4	443.5	441.6
60°	441.6	443.5	447.4	446.4	447.4	443.5	441.6	439.6	415.2	411.3	404.6
62.5°	401.7	403.6	404.6	402.6	404.6	403.6	401.7	395.7	381.1	378.2	369.5
65°	359.7	361.6	362.6	360.7	362.6	361.6	359.7	356.8	346.0	341.2	333.3
67.5°	316.8	315.8	314.8	318.8	314.8	315.8	316.8	312.9	306.1	302.2	291.5
70°	273.0	273.0	272.0	273.9	272.0	273.0	273.0	270.1	266.1	263.2	253.5
72.5°	226.2	225.2	229.1	226.2	229.1	225.2	226.2	225.2	223.3	220.4	210.6
75°	180.3	182.3	180.3	183.2	180.3	182.3	180.3	181.3	180.3	178.4	171.6
77.5°	137.4	139.4	137.4	137.4	137.4	139.4	137.4	138.4	138.4	138.4	132.6
80°	97.5	96.5	96.5	95.5	96.5	96.5	97.5	97.5	98.5	96.5	94.6
82.5°	62.4	61.4	61.4	63.4	61.4	61.4	62.4	63.4	61.4	61.4	61.4
85°	34.1	35.1	33.1	33.1	33.1	35.1	34.1	32.2	34.1	34.1	33.1
87.5°	12.7	11.7	11.7	11.7	11.7	11.7	12.7	13.7	13.7	13.7	14.6
90°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	30.6	40.8	45.9	39.5
92.5°	114.8	110.3	92.0	73.7	92.0	110.3	114.8	162.8	226.7	258.7	227.1
95°	389.9	376.1	320.7	265.4	320.7	376.1	389.9	512.0	674.9	756.3	638.8
97.5°	900.2	873.8	768.5	663.2	768.5	873.8	900.2	977.4	1080.3	1131.8	935.8
100°	1264.2	1232.8	1107.3	981.8	1107.3	1232.8	1264.2	1258.5	1251.0	1247.2	1029.7
102.5°	1574.9	1548.1	1440.5	1333.1	1440.5	1548.1	1574.9	1476.6	1345.5	1279.9	1059.3
105°	1937.6	1923.2	1865.4	1807.7	1865.4	1923.2	1937.6	1717.2	1423.3	1276.3	1062.7
107.5°	2126.3	2129.8	2143.8	2157.8	2143.8	2129.8	2126.3	1818.7	1408.7	1203.7	1015.3
110°	2174.6	2189.6	2249.9	2310.1	2249.9	2189.6	2174.6	1830.8	1372.4	1143.2	973.5

TEST NUMBER: P935089

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2143.8	2166.9	2259.3	2351.8	2259.3	2166.9	2143.8	1792.0	1322.8	1088.2	936.8
115°	2039.3	2071.3	2199.4	2327.6	2199.4	2071.3	2039.3	1700.3	1248.3	1022.3	894.8
117.5°	1894.7	1930.2	2072.4	2214.6	2072.4	1930.2	1894.7	1588.8	1180.9	976.9	868.5
120°	1797.4	1831.9	1970.1	2108.2	1970.1	1831.9	1797.4	1517.8	1145.2	958.8	859.7
122.5°	1700.0	1734.1	1870.4	2006.6	1870.4	1734.1	1700.0	1448.4	1112.8	945.0	855.0
125°	1571.3	1602.7	1728.1	1853.6	1728.1	1602.7	1571.3	1357.5	1072.4	929.9	851.3
127.5°	1467.9	1494.4	1600.3	1706.1	1600.3	1494.4	1467.9	1284.3	1039.5	917.2	849.0
130°	1402.6	1427.0	1524.9	1622.7	1524.9	1427.0	1402.6	1239.2	1021.2	912.3	850.4
132.5°	1347.0	1368.9	1456.5	1544.1	1456.5	1368.9	1347.0	1200.7	1005.6	908.0	851.3
135°	1268.4	1287.3	1362.8	1438.3	1362.8	1287.3	1268.4	1145.8	982.5	900.8	850.4
137.5°	1210.4	1225.8	1287.6	1349.4	1287.6	1225.8	1210.4	1106.8	968.7	899.6	855.7
140°	1163.8	1178.2	1236.1	1293.8	1236.1	1178.2	1163.8	1074.3	955.0	895.4	856.5
142.5°	1131.1	1143.5	1193.3	1243.0	1193.3	1143.5	1131.1	1052.5	947.8	895.4	859.6
145°	1082.2	1091.6	1129.3	1166.9	1129.3	1091.6	1082.2	1017.9	932.2	889.3	859.7
147.5°	1041.1	1048.8	1080.0	1111.2	1080.0	1048.8	1041.1	990.5	923.1	889.3	865.5
150°	1017.4	1023.7	1049.0	1074.3	1049.0	1023.7	1017.4	974.7	917.8	889.3	868.6
152.5°	998.7	1003.5	1022.6	1041.7	1022.6	1003.5	998.7	962.3	913.7	889.3	870.6
155°	976.4	979.6	992.2	1004.8	992.2	979.6	976.4	947.4	908.7	889.3	875.1
157.5°	957.1	959.3	968.1	976.9	968.1	959.3	957.1	934.5	904.4	889.3	879.6
160°	947.4	948.7	953.8	958.8	953.8	948.7	947.4	928.0	902.2	889.3	881.6
162.5°	938.3	939.4	944.3	949.1	944.3	939.4	938.3	922.0	900.2	889.3	883.7
165°	924.4	925.7	930.8	935.9	930.8	925.7	924.4	912.7	897.1	889.3	886.8
167.5°	918.3	918.9	921.0	923.2	921.0	918.9	918.3	910.7	900.5	895.4	893.2
170°	918.3	918.3	918.3	918.3	918.3	918.3	918.3	910.7	900.5	895.4	895.3
172.5°	913.5	913.0	911.2	909.3	911.2	913.0	913.5	907.5	899.4	895.4	895.4
175°	906.9	906.9	906.9	906.9	906.9	906.9	906.9	903.0	897.9	895.4	896.5
177.5°	905.6	905.0	902.9	900.8	902.9	905.0	905.6	902.6	898.7	896.6	897.6
180°	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8	900.8

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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1030.3	1030.3	1030.3	1030.3	1030.3
2.5°	1017.6	1022.6	1025.5	1029.4	1039.2
5°	978.7	997.2	1003.1	1017.6	1035.2
7.5°	892.9	949.4	965.0	1000.1	1027.4
10°	810.1	866.6	893.9	976.8	1017.6
12.5°	768.1	801.3	819.8	935.8	1004.1
15°	741.8	765.2	778.9	881.2	988.5
17.5°	721.3	737.9	747.7	827.6	967.0
20°	708.6	716.5	725.2	788.6	942.6
22.5°	699.9	695.1	701.8	761.3	909.5
25°	694.1	675.5	683.3	739.8	870.5
27.5°	698.9	658.0	661.0	720.4	829.6
30°	699.9	636.5	637.5	699.9	783.7
32.5°	693.1	614.2	615.1	674.5	732.1
35°	676.5	587.8	586.8	645.4	661.9
37.5°	654.1	559.5	559.5	613.2	584.9
40°	626.7	531.3	534.2	571.2	516.7
42.5°	593.6	501.1	504.9	515.7	466.0
45°	557.6	471.8	474.7	435.8	426.9
47.5°	517.6	441.6	442.5	361.6	414.2
50°	469.9	410.4	406.5	310.0	413.3
52.5°	427.9	376.3	364.5	280.7	375.3
55°	387.0	340.2	314.8	258.3	348.0
57.5°	351.0	293.4	269.1	232.0	342.2
60°	317.7	247.6	229.1	203.7	313.9
62.5°	290.5	213.5	209.6	184.2	284.6
65°	261.2	190.1	189.1	167.6	241.8
67.5°	232.9	174.5	173.5	152.0	184.2
70°	202.7	157.9	156.0	135.5	136.4
72.5°	171.6	139.4	137.4	121.8	113.1
75°	140.4	117.9	117.0	106.3	91.7
77.5°	110.2	93.6	95.5	85.8	67.2
80°	79.0	68.2	70.2	61.4	50.7
82.5°	52.6	44.9	46.8	39.0	34.1
85°	29.3	25.4	26.4	20.4	15.6
87.5°	13.7	11.7	11.7	7.8	4.8
90°	26.6	17.0	15.7	10.9	6.0
92.5°	164.1	116.7	106.4	65.3	24.2
95°	403.7	227.3	208.5	133.2	58.0
97.5°	543.7	249.7	233.1	166.8	100.4
100°	594.7	268.4	253.4	193.2	133.0
102.5°	618.1	287.2	273.2	217.1	160.9
105°	635.5	315.0	303.1	255.5	207.9
107.5°	638.7	356.1	345.1	300.7	256.3
110°	633.8	379.1	369.1	329.0	289.0

TEST NUMBER: P935089

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-W2A-W-6-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	634.0	406.9	397.4	359.2	321.0
115°	639.8	448.6	439.7	404.6	369.4
117.5°	651.7	489.1	481.1	449.1	417.2
120°	661.4	512.7	505.1	475.1	445.0
122.5°	675.3	540.5	532.9	502.5	472.2
125°	694.1	576.2	569.3	541.6	513.9
127.5°	712.8	610.7	603.7	575.7	547.8
130°	726.6	633.6	626.1	596.0	565.9
132.5°	737.6	652.3	644.8	614.7	584.6
135°	749.7	674.1	667.3	639.8	612.4
137.5°	767.8	701.9	695.2	667.9	640.8
140°	778.9	720.6	714.4	689.4	664.4
142.5°	788.2	734.6	728.8	705.7	682.6
145°	800.3	755.7	750.7	730.5	710.4
147.5°	817.9	782.3	777.3	757.8	738.2
150°	827.2	796.2	791.8	774.0	756.3
152.5°	833.3	805.3	801.9	788.6	775.1
155°	846.6	825.2	822.7	812.8	802.9
157.5°	859.9	845.2	842.7	833.1	823.5
160°	866.0	854.3	852.4	844.9	837.3
162.5°	872.4	864.0	862.5	856.9	851.3
165°	881.7	877.8	876.6	871.4	866.4
167.5°	888.9	885.7	885.1	882.7	880.2
170°	895.0	894.8	894.2	891.8	889.3
172.5°	895.4	895.4	895.3	894.7	894.2
175°	898.9	900.8	900.8	900.8	900.8
177.5°	899.4	900.8	900.8	900.8	900.8
180°	900.8	900.8	900.8	900.8	900.8

TEST NUMBER: P935089

CATALOG NUMBER: SQ4-FA-100U-050D-B2750-1D-UNV-W2A-W-6-3500K

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	9.21	9.93	10.32	11.03	12.54	12.04	12.75	13.14	13.85	15.37
	3H	9.68	10.32	10.79	11.43	12.96	13.37	14.01	14.48	15.12	16.65
	4H	9.86	10.47	10.98	11.58	13.12	13.81	14.41	14.93	15.52	17.06
	6H	9.98	10.53	11.10	11.65	13.19	14.08	14.64	15.21	15.75	17.30
	8H	9.97	10.50	11.10	11.63	13.17	14.15	14.68	15.28	15.81	17.35
	12H	9.94	10.44	11.08	11.56	13.13	14.18	14.69	15.32	15.81	17.37
4H	2H	10.23	10.84	11.36	11.94	13.48	12.43	13.04	13.56	14.15	15.68
	3H	11.24	11.75	12.37	12.88	14.43	13.92	14.43	15.05	15.56	17.11
	4H	11.51	11.98	12.65	13.10	14.67	14.44	14.91	15.58	16.03	17.60
	6H	11.63	12.03	12.77	13.17	14.73	14.80	15.19	15.94	16.34	17.90
	8H	11.63	12.00	12.77	13.14	14.72	14.90	15.27	16.04	16.41	17.99
	12H	11.59	11.93	12.75	13.08	14.66	14.95	15.28	16.11	16.43	18.02
8H	4H	11.95	12.32	13.09	13.46	15.04	14.55	14.93	15.70	16.06	17.64
	6H	12.21	12.51	13.37	13.69	15.27	14.98	15.29	16.15	16.47	18.04
	8H	12.25	12.52	13.42	13.68	15.27	15.13	15.40	16.30	16.56	18.15
	12H	12.23	12.46	13.40	13.62	15.25	15.22	15.46	16.40	16.61	18.24
12H	4H	11.95	12.29	13.11	13.44	15.02	14.51	14.85	15.67	16.00	17.58
	6H	12.27	12.53	13.44	13.69	15.29	14.98	15.25	16.15	16.41	18.00
	8H	12.33	12.56	13.50	13.72	15.35	15.13	15.37	16.31	16.52	18.15

END OF REPORT