

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: P934554

Luminaire Tested: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-3500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934554
REPORT IS A COMBINATION OF REPORTS P933701 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-3500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

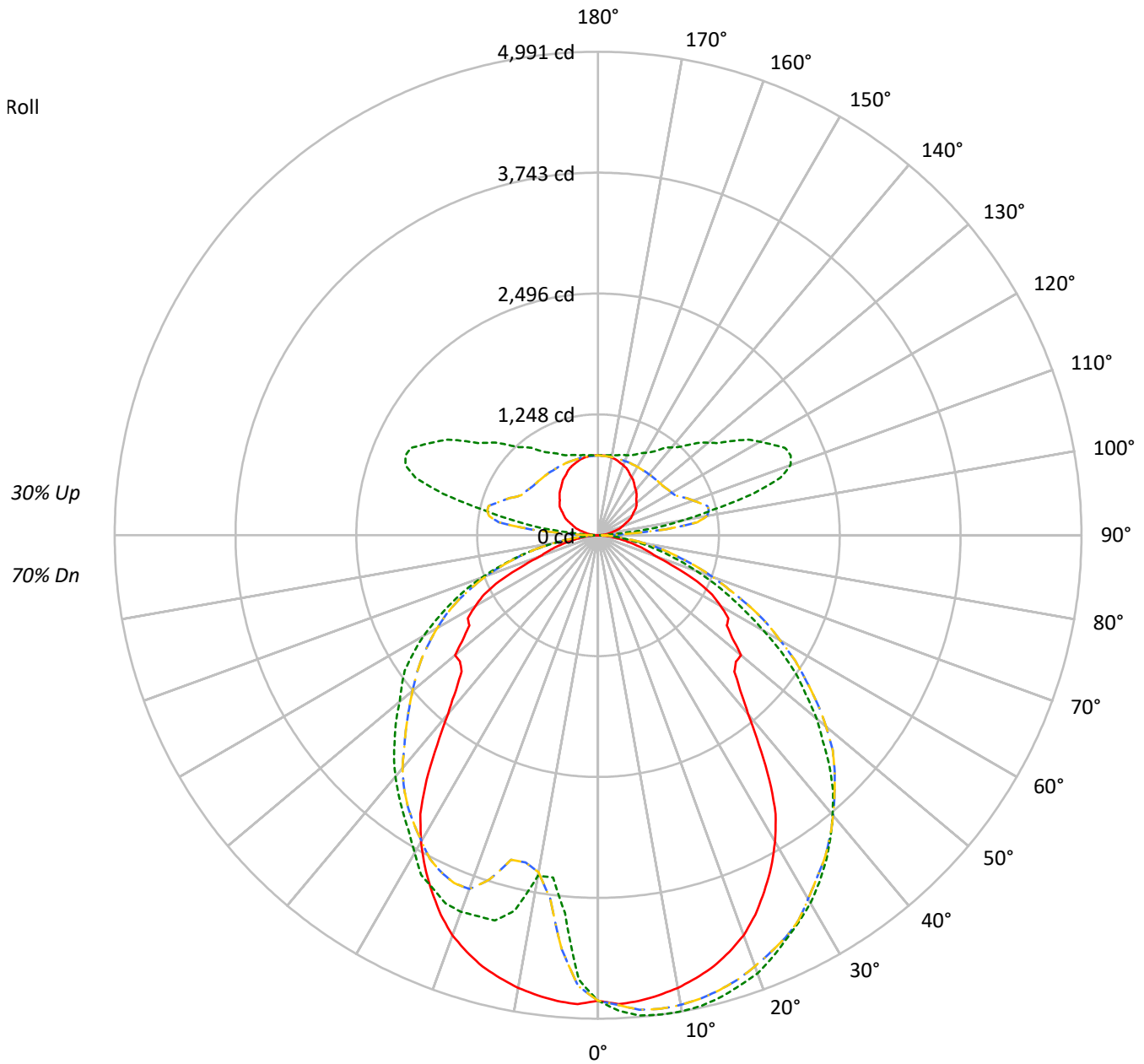
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17806.8 lumens
Efficiency: N/A
Efficacy: 106.0 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 12' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 168
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

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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									
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	50	30	10	50	30	10	0																			
RCR																																														
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	74	74	74	74	74	74	74	74	74	74	70																		
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	63	63	63	63	63	63	63	63	63	63	59																		
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	53	53	53	53	53	53	53	53	53	53	50																		
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	45	45	45	45	45	45	45	45	45	45	42																		
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	39	39	39	39	39	39	39	39	39	39	36																		
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	34	34	34	34	34	34	34	34	34	34	31																		
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	30	30	30	30	30	30	30	30	30	30	27																		
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	27	27	27	27	27	27	27	27	27	27	24																		
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	24	24	24	24	24	24	24	24	24	24	22																		
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	21	21	21	21	21	21	21	21	21	21	19																		
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	19	19	19	19	19	19	19	19	19	19	18																		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	14860	14860	14860	14860
5°	14976	15000	14976	11795
10°	14882	14776	14882	10564
15°	14725	14456	14725	12071
20°	14423	14077	14423	12096
25°	13798	13523	13798	11840
30°	12989	13064	12989	11277
35°	11585	12483	11585	10659
40°	9659	11800	9659	10191
45°	8636	10999	8636	9654
50°	9182	10044	9182	9114
55°	8647	9016	8647	8803
60°	8925	7657	8925	8062
65°	8105	6330	8105	7076
70°	5626	5045	5626	5931
75°	4951	3729	4951	4465
80°	4021	2465	4021	2684
85°	2356	1306	2356	1110

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13228 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	433.7	2.4
10°-20°	1231.3	6.9
20°-30°	1903.4	10.7
30°-40°	2272.2	12.8
40°-50°	2285.5	12.8
50°-60°	1988.7	11.2
60°-70°	1410.0	7.9
70°-80°	746.0	4.2
80°-90°	188.9	1.1
90°-100°	402.1	2.3
100°-110°	1057.1	5.9
110°-120°	1096.1	6.2
120°-130°	879.2	4.9
130°-140°	689.9	3.9
140°-150°	529.5	3.0
150°-160°	381.3	2.1
160°-170°	233.3	1.3
170°-180°	78.8	0.4
0°-30°	3568.3	20.0
0°-40°	5840.5	32.8
0°-60°	10114.7	56.8
0°-90°	12459.6	70.0
90°-120°	2555.2	14.3
90°-150°	4653.8	26.1
90°-180°	5347.0	30.0
0°-180°	17806.8	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4804	4804	4804	4804	4804	
5°	4827	4977	4827	3913	4827	458
15°	4609	4932	4609	4118	4609	1297
25°	4059	4600	4059	4027	4059	1864
35°	3086	4104	3086	3504	3086	1909
45°	1991	3382	1991	2968	1991	1595
55°	1623	2495	1623	2436	1623	1491
65°	1127	1504	1127	1682	1127	1077
75°	427	714	427	854	427	449
85°	73	182	73	154	73	98
90°	6	21	6	21	6	8
95°	53	243	53	243	53	59
105°	190	1655	190	1655	190	202
115°	338	2131	338	2131	338	334
125°	471	1697	471	1697	471	418
135°	561	1317	561	1317	561	434
145°	650	1068	650	1068	650	408
155°	735	920	735	920	735	338
165°	793	857	793	857	793	224
175°	825	830	825	830	825	78
180°	825	825	825	825	825	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2
2.5°	4845.2	4845.2	4872.4	4881.5	4881.5	4867.8	4854.2	4867.8	4908.7	4922.4	4917.9
5°	4826.9	4863.3	4913.3	4922.4	4931.5	4926.9	4917.9	4926.9	4972.4	4981.5	4986.0
7.5°	4790.5	4858.8	4922.4	4936.0	4949.6	4936.0	4931.5	4940.6	4986.0	4995.1	4995.1
10°	4745.2	4840.6	4913.3	4922.4	4936.0	4922.4	4922.4	4940.6	4986.0	4995.1	4999.7
12.5°	4681.5	4813.3	4881.5	4890.6	4908.7	4904.2	4899.7	4917.9	4963.3	4972.4	4972.4
15°	4608.8	4763.3	4826.9	4836.0	4867.8	4858.8	4858.8	4876.9	4926.9	4940.6	4936.0
17.5°	4508.8	4699.7	4772.4	4786.1	4808.7	4804.2	4808.7	4826.9	4872.4	4881.5	4886.0
20°	4395.2	4613.3	4699.7	4713.3	4736.0	4736.0	4736.0	4758.8	4804.2	4822.4	4822.4
22.5°	4240.6	4522.4	4613.3	4622.4	4649.7	4649.7	4658.8	4690.5	4731.5	4736.0	4736.0
25°	4058.8	4422.4	4499.7	4527.0	4554.3	4567.9	4581.5	4599.7	4613.3	4608.8	4613.3
27.5°	3867.9	4295.2	4395.2	4413.4	4449.7	4463.3	4481.5	4486.1	4490.6	4504.2	4495.2
30°	3654.3	4117.9	4267.9	4286.0	4345.1	4354.3	4336.1	4345.1	4367.9	4377.0	4386.0
32.5°	3413.4	3854.3	4136.1	4177.0	4231.5	4204.3	4199.7	4213.3	4249.7	4249.7	4258.8
35°	3086.1	3649.7	4013.3	4049.7	4090.6	4058.8	4077.0	4081.5	4104.3	4117.9	4113.3
37.5°	2727.1	3472.5	3886.1	3913.4	3945.2	3904.3	3931.6	3945.2	3963.4	3954.2	3954.2
40°	2408.9	3195.2	3736.1	3754.3	3781.5	3749.7	3777.1	3786.1	3795.2	3786.1	3781.5
42.5°	2172.6	2890.7	3577.0	3599.8	3581.6	3604.3	3613.4	3631.6	3618.0	3599.8	3599.8
45°	1990.7	2808.9	3404.3	3431.6	3404.3	3440.7	3454.3	3454.3	3413.4	3404.3	3399.8
47.5°	1931.7	2645.3	3231.6	3231.6	3217.9	3263.4	3286.2	3254.3	3213.5	3199.8	3199.8
50°	1927.2	2463.5	2995.3	2977.1	3040.7	3095.3	3072.5	3040.7	3008.9	2958.9	2958.9
52.5°	1749.9	2240.8	2690.7	2758.9	2858.9	2890.7	2854.3	2822.6	2767.9	2745.3	2727.1
55°	1622.6	2009.0	2413.5	2549.8	2654.3	2695.2	2627.1	2595.2	2513.5	2499.8	2490.8
57.5°	1595.4	1672.6	2159.0	2331.7	2458.9	2454.4	2413.5	2354.4	2286.2	2272.6	2268.0
60°	1463.6	1209.0	1886.2	2090.7	2222.6	2208.9	2172.6	2118.0	2054.4	2045.3	2036.2
62.5°	1327.2	877.2	1577.2	1809.0	1995.3	1990.7	1958.9	1877.1	1831.7	1809.0	1790.8
65°	1127.2	736.3	1122.6	1504.5	1772.6	1781.7	1713.5	1654.4	1604.4	1577.2	1572.6
67.5°	859.1	599.9	759.0	1254.4	1559.0	1549.9	1463.6	1436.3	1372.6	1359.0	1331.7
70°	636.3	399.9	527.2	1018.1	1349.9	1327.2	1259.0	1227.2	1168.1	1136.2	1118.1
72.5°	527.2	322.7	386.3	790.8	1136.2	1109.0	1049.9	1013.6	963.5	936.3	918.1
75°	427.2	340.8	295.5	586.3	922.6	904.4	849.9	813.6	772.7	736.3	740.9
77.5°	313.6	318.2	236.4	431.8	731.7	704.5	672.6	627.3	609.1	572.7	572.7
80°	236.4	250.0	177.3	295.5	527.2	527.2	499.9	468.2	436.4	418.1	418.1
82.5°	159.1	159.1	131.8	186.3	359.1	345.4	327.2	318.2	300.0	290.9	290.9
85°	72.7	90.9	81.8	113.6	195.4	204.5	204.5	195.4	190.9	181.8	186.3
87.5°	22.7	40.9	50.0	63.7	100.0	104.6	109.0	109.0	109.0	113.6	113.6
90°	5.6	9.9	14.4	15.5	24.4	36.2	42.1	37.4	28.0	21.0	21.0
92.5°	22.1	59.7	97.4	106.8	150.1	208.0	236.9	207.6	149.1	105.2	101.0
95°	53.2	122.0	191.0	208.2	369.6	584.9	692.5	617.9	468.9	357.1	344.3
97.5°	91.9	152.7	213.4	228.7	497.9	856.8	1036.3	989.2	895.0	824.3	800.2
100°	121.8	176.9	232.0	245.8	544.5	942.9	1142.1	1145.5	1152.4	1157.5	1128.8
102.5°	147.3	198.7	250.1	263.0	565.9	970.0	1172.0	1231.9	1352.0	1442.1	1417.5
105°	190.4	233.9	277.5	288.4	581.8	973.0	1168.7	1303.2	1572.3	1774.2	1761.0
107.5°	234.8	275.3	316.0	326.1	584.8	929.8	1102.2	1290.0	1665.5	1947.0	1950.3
110°	264.7	301.3	338.0	347.1	580.3	891.4	1046.9	1256.7	1676.5	1991.3	2005.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	293.9	328.8	363.8	372.5	580.5	857.8	996.5	1211.3	1640.8	1963.1	1984.2
115°	338.2	370.5	402.7	410.8	585.9	819.4	936.1	1143.0	1556.9	1867.3	1896.6
117.5°	381.9	411.2	440.5	447.8	596.7	795.3	894.6	1081.4	1454.8	1734.9	1767.4
120°	407.5	435.0	462.5	469.4	605.6	787.2	878.0	1048.7	1389.9	1645.9	1677.5
122.5°	432.3	460.2	487.9	494.9	618.4	783.0	865.2	1018.9	1326.2	1556.7	1587.8
125°	470.6	495.9	521.3	527.6	635.6	779.5	851.4	982.0	1243.0	1438.8	1467.5
127.5°	501.6	527.2	552.8	559.1	652.7	777.4	839.8	951.9	1176.0	1344.1	1368.4
130°	518.2	545.8	573.3	580.2	665.2	778.7	835.4	935.2	1134.7	1284.3	1306.7
132.5°	535.3	562.9	590.5	597.4	675.4	779.5	831.5	920.8	1099.4	1233.4	1253.4
135°	560.8	585.9	611.0	617.2	686.4	778.7	824.9	899.7	1049.3	1161.5	1178.8
137.5°	586.8	611.7	636.6	642.7	703.1	783.6	823.8	887.0	1013.5	1108.3	1122.5
140°	608.4	631.3	654.1	659.8	713.2	784.3	819.8	874.5	983.8	1065.7	1078.9
142.5°	625.0	646.1	667.4	672.6	721.7	787.2	819.8	867.8	963.8	1035.8	1047.2
145°	650.4	668.9	687.3	692.0	732.8	787.2	814.4	853.6	932.1	990.9	999.5
147.5°	676.0	693.9	711.9	716.3	749.0	792.6	814.4	845.3	907.0	953.3	960.5
150°	692.5	708.7	725.0	729.1	757.5	795.4	814.4	840.4	892.5	931.7	937.5
152.5°	709.7	722.0	734.3	737.4	763.1	797.3	814.4	836.7	881.2	914.6	918.9
155°	735.1	744.3	753.4	755.6	775.3	801.3	814.4	832.1	867.5	894.1	896.9
157.5°	754.0	762.9	771.7	773.9	787.4	805.4	814.4	828.2	855.6	876.3	878.4
160°	766.7	773.6	780.5	782.2	793.0	807.2	814.4	826.2	849.7	867.5	868.6
162.5°	779.5	784.7	789.8	791.1	798.9	809.2	814.4	824.3	844.2	859.1	860.2
165°	793.3	798.0	802.6	803.8	807.3	812.0	814.4	821.5	835.8	846.4	847.6
167.5°	806.0	808.2	810.4	811.0	813.9	817.9	819.8	824.5	833.9	840.9	841.4
170°	814.4	816.5	818.8	819.3	819.5	819.7	819.8	824.5	833.9	840.9	840.9
172.5°	818.8	819.2	819.7	819.8	819.8	819.8	819.8	823.5	830.9	836.5	836.0
175°	824.9	824.9	824.9	824.9	823.1	820.9	819.8	822.2	826.9	830.4	830.4
177.5°	824.9	824.9	824.9	824.9	823.6	821.9	821.0	822.9	826.6	829.3	828.8
180°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2
2.5°	4926.9	4913.3	4926.9	4917.9	4922.4	4908.7	4867.8	4854.2	4867.8	4881.5	4881.5
5°	4986.0	4976.9	4986.0	4986.0	4981.5	4972.4	4926.9	4917.9	4926.9	4931.5	4922.4
7.5°	5004.2	4990.6	5004.2	4995.1	4995.1	4986.0	4940.6	4931.5	4936.0	4949.6	4936.0
10°	5004.2	4990.6	5004.2	4999.7	4995.1	4986.0	4940.6	4922.4	4922.4	4936.0	4922.4
12.5°	4981.5	4972.4	4981.5	4972.4	4972.4	4963.3	4917.9	4899.7	4904.2	4908.7	4890.6
15°	4945.1	4931.5	4945.1	4936.0	4940.6	4926.9	4876.9	4858.8	4858.8	4867.8	4836.0
17.5°	4890.6	4872.4	4890.6	4886.0	4881.5	4872.4	4826.9	4808.7	4804.2	4808.7	4786.1
20°	4826.9	4813.3	4826.9	4822.4	4822.4	4804.2	4758.8	4736.0	4736.0	4736.0	4713.3
22.5°	4727.0	4713.3	4727.0	4736.0	4736.0	4731.5	4690.5	4658.8	4649.7	4649.7	4622.4
25°	4613.3	4599.7	4613.3	4613.3	4608.8	4613.3	4599.7	4581.5	4567.9	4554.3	4527.0
27.5°	4504.2	4495.2	4504.2	4495.2	4504.2	4490.6	4486.1	4481.5	4463.3	4449.7	4413.4
30°	4395.2	4386.0	4395.2	4386.0	4377.0	4367.9	4345.1	4336.1	4354.3	4345.1	4286.0
32.5°	4258.8	4249.7	4258.8	4258.8	4249.7	4249.7	4213.3	4199.7	4204.3	4231.5	4177.0
35°	4117.9	4104.3	4117.9	4113.3	4117.9	4104.3	4081.5	4077.0	4058.8	4090.6	4049.7
37.5°	3954.2	3940.6	3954.2	3954.2	3954.2	3963.4	3945.2	3931.6	3904.3	3945.2	3913.4
40°	3786.1	3767.9	3786.1	3781.5	3786.1	3795.2	3786.1	3777.1	3749.7	3781.5	3754.3
42.5°	3595.2	3590.6	3595.2	3599.8	3599.8	3618.0	3631.6	3613.4	3604.3	3581.6	3599.8
45°	3390.6	3381.6	3390.6	3399.8	3404.3	3413.4	3454.3	3454.3	3440.7	3404.3	3431.6
47.5°	3172.5	3149.8	3172.5	3199.8	3199.8	3213.5	3254.3	3286.2	3263.4	3217.9	3231.6
50°	2940.7	2945.2	2940.7	2958.9	2958.9	3008.9	3040.7	3072.5	3095.3	3040.7	2977.1
52.5°	2713.4	2708.9	2713.4	2727.1	2745.3	2767.9	2822.6	2854.3	2890.7	2858.9	2758.9
55°	2486.2	2495.3	2486.2	2490.8	2499.8	2513.5	2595.2	2627.1	2695.2	2654.3	2549.8
57.5°	2259.0	2245.3	2259.0	2268.0	2272.6	2286.2	2354.4	2413.5	2454.4	2458.9	2331.7
60°	1995.3	1977.1	1995.3	2036.2	2045.3	2054.4	2118.0	2172.6	2208.9	2222.6	2090.7
62.5°	1763.5	1731.7	1763.5	1790.8	1809.0	1831.7	1877.1	1958.9	1990.7	1995.3	1809.0
65°	1518.1	1504.5	1518.1	1572.6	1577.2	1604.4	1654.4	1713.5	1781.7	1772.6	1504.5
67.5°	1295.3	1295.3	1295.3	1331.7	1359.0	1372.6	1436.3	1463.6	1549.9	1559.0	1254.4
70°	1090.8	1086.3	1090.8	1118.1	1136.2	1168.1	1227.2	1259.0	1327.2	1349.9	1018.1
72.5°	895.4	890.8	895.4	918.1	936.3	963.5	1013.6	1049.9	1109.0	1136.2	790.8
75°	722.7	713.6	722.7	740.9	736.3	772.7	813.6	849.9	904.4	922.6	586.3
77.5°	554.5	554.5	554.5	572.7	572.7	609.1	627.3	672.6	704.5	731.7	431.8
80°	413.6	409.1	413.6	418.1	418.1	436.4	468.2	499.9	527.2	527.2	295.5
82.5°	290.9	281.8	290.9	290.9	290.9	300.0	318.2	327.2	345.4	359.1	186.3
85°	181.8	181.8	181.8	186.3	181.8	190.9	195.4	204.5	204.5	195.4	113.6
87.5°	118.2	113.6	118.2	113.6	113.6	109.0	109.0	109.0	104.6	100.0	63.7
90°	21.0	21.0	21.0	21.0	21.0	28.0	37.4	42.1	36.2	24.4	15.5
92.5°	84.2	67.5	84.2	101.0	105.2	149.1	207.6	236.9	208.0	150.1	106.8
95°	293.7	243.0	293.7	344.3	357.1	468.9	617.9	692.5	584.9	369.6	208.2
97.5°	703.7	607.3	703.7	800.2	824.3	895.0	989.2	1036.3	856.8	497.9	228.7
100°	1013.9	899.1	1013.9	1128.8	1157.5	1152.4	1145.5	1142.1	942.9	544.5	245.8
102.5°	1319.1	1220.7	1319.1	1417.5	1442.1	1352.0	1231.9	1172.0	970.0	565.9	263.0
105°	1708.2	1655.3	1708.2	1761.0	1774.2	1572.3	1303.2	1168.7	973.0	581.8	288.4
107.5°	1963.0	1975.8	1963.0	1950.3	1947.0	1665.5	1290.0	1102.2	929.8	584.8	326.1
110°	2060.1	2115.3	2060.1	2005.1	1991.3	1676.5	1256.7	1046.9	891.4	580.3	347.1



TEST NUMBER: P934554

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2068.9	2153.5	2068.9	1984.2	1963.1	1640.8	1211.3	996.5	857.8	580.5	372.5
115°	2014.0	2131.4	2014.0	1896.6	1867.3	1556.9	1143.0	936.1	819.4	585.9	410.8
117.5°	1897.6	2027.8	1897.6	1767.4	1734.9	1454.8	1081.4	894.6	795.3	596.7	447.8
120°	1804.0	1930.4	1804.0	1677.5	1645.9	1389.9	1048.7	878.0	787.2	605.6	469.4
122.5°	1712.6	1837.4	1712.6	1587.8	1556.7	1326.2	1018.9	865.2	783.0	618.4	494.9
125°	1582.4	1697.3	1582.4	1467.5	1438.8	1243.0	982.0	851.4	779.5	635.6	527.6
127.5°	1465.3	1562.2	1465.3	1368.4	1344.1	1176.0	951.9	839.8	777.4	652.7	559.1
130°	1396.3	1485.9	1396.3	1306.7	1284.3	1134.7	935.2	835.4	778.7	665.2	580.2
132.5°	1333.7	1413.9	1333.7	1253.4	1233.4	1099.4	920.8	831.5	779.5	675.4	597.4
135°	1247.9	1317.0	1247.9	1178.8	1161.5	1049.3	899.7	824.9	778.7	686.4	617.2
137.5°	1179.0	1235.6	1179.0	1122.5	1108.3	1013.5	887.0	823.8	783.6	703.1	642.7
140°	1131.8	1184.7	1131.8	1078.9	1065.7	983.8	874.5	819.8	784.3	713.2	659.8
142.5°	1092.7	1138.2	1092.7	1047.2	1035.8	963.8	867.8	819.8	787.2	721.7	672.6
145°	1034.0	1068.5	1034.0	999.5	990.9	932.1	853.6	814.4	787.2	732.8	692.0
147.5°	989.0	1017.5	989.0	960.5	953.3	907.0	845.3	814.4	792.6	749.0	716.3
150°	960.6	983.8	960.6	937.5	931.7	892.5	840.4	814.4	795.4	757.5	729.1
152.5°	936.4	953.9	936.4	918.9	914.6	881.2	836.7	814.4	797.3	763.1	737.4
155°	908.6	920.1	908.6	896.9	894.1	867.5	832.1	814.4	801.3	775.3	755.6
157.5°	886.4	894.6	886.4	878.4	876.3	855.6	828.2	814.4	805.4	787.4	773.9
160°	873.4	878.0	873.4	868.6	867.5	849.7	826.2	814.4	807.2	793.0	782.2
162.5°	864.7	869.2	864.7	860.2	859.1	844.2	824.3	814.4	809.2	798.9	791.1
165°	852.3	857.0	852.3	847.6	846.4	835.8	821.5	814.4	812.0	807.3	803.8
167.5°	843.4	845.4	843.4	841.4	840.9	833.9	824.5	819.8	817.9	813.9	811.0
170°	840.9	840.9	840.9	840.9	840.9	833.9	824.5	819.8	819.7	819.5	819.3
172.5°	834.3	832.6	834.3	836.0	836.5	830.9	823.5	819.8	819.8	819.8	819.8
175°	830.4	830.4	830.4	830.4	830.4	826.9	822.2	819.8	820.9	823.1	824.9
177.5°	826.8	824.9	826.8	828.8	829.3	826.6	822.9	821.0	821.9	823.6	824.9
180°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9



TEST NUMBER: P934554

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2
2.5°	4872.4	4845.2	4845.2	4799.7	4781.5	4767.9	4745.2	4676.9	4658.8	4640.6	4667.9
5°	4913.3	4863.3	4826.9	4745.2	4676.9	4649.7	4563.3	4399.7	4290.6	4208.8	4163.4
7.5°	4922.4	4858.8	4790.5	4663.3	4499.7	4427.0	4163.4	3863.4	3781.5	3708.8	3663.3
10°	4913.3	4840.6	4745.2	4554.3	4167.9	4040.6	3777.1	3581.6	3531.6	3517.9	3531.6
12.5°	4881.5	4813.3	4681.5	4363.3	3822.4	3736.1	3581.6	3467.9	3458.9	3481.6	3604.3
15°	4826.9	4763.3	4608.8	4108.8	3631.6	3567.9	3458.9	3417.9	3467.9	3627.0	3995.2
17.5°	4772.4	4699.7	4508.8	3858.8	3486.2	3440.7	3363.4	3445.3	3727.0	3940.6	4063.4
20°	4699.7	4613.3	4395.2	3677.0	3381.6	3340.7	3304.3	3672.5	3886.1	3963.4	4031.5
22.5°	4613.3	4522.4	4240.6	3549.7	3272.5	3240.7	3263.4	3799.7	3886.1	3940.6	3999.7
25°	4499.7	4422.4	4058.8	3449.7	3186.1	3149.8	3236.1	3786.1	3836.1	3849.8	3967.9
27.5°	4395.2	4295.2	3867.9	3358.9	3081.6	3068.0	3258.8	3727.0	3763.4	3777.1	3904.3
30°	4267.9	4117.9	3654.3	3263.4	2972.5	2968.0	3263.4	3654.3	3645.2	3681.5	3808.8
32.5°	4136.1	3854.3	3413.4	3145.2	2868.0	2863.5	3231.6	3545.2	3536.1	3586.1	3681.5
35°	4013.3	3649.7	3086.1	3008.9	2736.2	2740.7	3154.4	3417.9	3422.5	3467.9	3527.0
37.5°	3886.1	3472.5	2727.1	2858.9	2608.9	2608.9	3049.8	3299.8	3290.7	3304.3	3386.2
40°	3736.1	3195.2	2408.9	2663.5	2490.8	2477.1	2922.6	3172.5	3140.7	3136.2	3249.8
42.5°	3577.0	2890.7	2172.6	2404.4	2354.4	2336.2	2767.9	3018.0	2958.9	2972.5	3117.9
45°	3404.3	2808.9	1990.7	2031.6	2213.5	2199.9	2599.8	2840.7	2799.8	2836.2	2986.1
47.5°	3231.6	2645.3	1931.7	1686.2	2063.5	2058.9	2413.5	2668.0	2645.3	2681.6	2840.7
50°	2995.3	2463.5	1927.2	1445.4	1895.3	1913.5	2190.7	2499.8	2499.8	2531.7	2699.8
52.5°	2690.7	2240.8	1749.9	1309.0	1699.8	1754.5	1995.3	2354.4	2363.4	2395.3	2545.3
55°	2413.5	2009.0	1622.6	1204.5	1468.0	1586.2	1804.4	2204.3	2222.6	2254.4	2390.8
57.5°	2159.0	1672.6	1595.4	1081.7	1254.4	1368.1	1636.3	2058.9	2068.1	2095.3	2227.1
60°	1886.2	1209.0	1463.6	949.9	1068.1	1154.5	1481.7	1886.2	1918.0	1936.2	2049.8
62.5°	1577.2	877.2	1327.2	859.1	977.2	995.4	1354.4	1722.6	1763.5	1777.1	1845.3
65°	1122.6	736.3	1127.2	781.8	881.8	886.3	1218.1	1554.4	1590.8	1613.5	1663.5
67.5°	759.0	599.9	859.1	709.0	809.0	813.6	1086.3	1359.0	1409.0	1427.2	1459.0
70°	527.2	399.9	636.3	631.7	727.3	736.3	945.4	1181.7	1227.2	1240.8	1259.0
72.5°	386.3	322.7	527.2	568.2	640.9	650.0	800.0	981.7	1027.2	1040.8	1049.9
75°	295.5	340.8	427.2	495.4	545.4	550.0	654.5	800.0	831.7	840.9	845.4
77.5°	236.4	318.2	313.6	399.9	445.4	436.4	513.6	618.1	645.4	645.4	645.4
80°	177.3	250.0	236.4	286.3	327.2	318.2	368.2	440.9	450.0	459.0	454.5
82.5°	131.8	159.1	159.1	181.8	218.2	209.1	245.4	286.3	286.3	286.3	295.5
85°	81.8	90.9	72.7	95.4	122.7	118.2	136.4	154.5	159.1	159.1	150.0
87.5°	50.0	40.9	22.7	36.3	54.5	54.5	63.7	68.1	63.7	63.7	63.7
90°	14.4	9.9	5.6	9.9	14.4	15.5	24.4	36.2	42.1	37.4	28.0
92.5°	97.4	59.7	22.1	59.7	97.4	106.8	150.1	208.0	236.9	207.6	149.1
95°	191.0	122.0	53.2	122.0	191.0	208.2	369.6	584.9	692.5	617.9	468.9
97.5°	213.4	152.7	91.9	152.7	213.4	228.7	497.9	856.8	1036.3	989.2	895.0
100°	232.0	176.9	121.8	176.9	232.0	245.8	544.5	942.9	1142.1	1145.5	1152.4
102.5°	250.1	198.7	147.3	198.7	250.1	263.0	565.9	970.0	1172.0	1231.9	1352.0
105°	277.5	233.9	190.4	233.9	277.5	288.4	581.8	973.0	1168.7	1303.2	1572.3
107.5°	316.0	275.3	234.8	275.3	316.0	326.1	584.8	929.8	1102.2	1290.0	1665.5
110°	338.0	301.3	264.7	301.3	338.0	347.1	580.3	891.4	1046.9	1256.7	1676.5



TEST NUMBER: P934554

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	363.8	328.8	293.9	328.8	363.8	372.5	580.5	857.8	996.5	1211.3	1640.8
115°	402.7	370.5	338.2	370.5	402.7	410.8	585.9	819.4	936.1	1143.0	1556.9
117.5°	440.5	411.2	381.9	411.2	440.5	447.8	596.7	795.3	894.6	1081.4	1454.8
120°	462.5	435.0	407.5	435.0	462.5	469.4	605.6	787.2	878.0	1048.7	1389.9
122.5°	487.9	460.2	432.3	460.2	487.9	494.9	618.4	783.0	865.2	1018.9	1326.2
125°	521.3	495.9	470.6	495.9	521.3	527.6	635.6	779.5	851.4	982.0	1243.0
127.5°	552.8	527.2	501.6	527.2	552.8	559.1	652.7	777.4	839.8	951.9	1176.0
130°	573.3	545.8	518.2	545.8	573.3	580.2	665.2	778.7	835.4	935.2	1134.7
132.5°	590.5	562.9	535.3	562.9	590.5	597.4	675.4	779.5	831.5	920.8	1099.4
135°	611.0	585.9	560.8	585.9	611.0	617.2	686.4	778.7	824.9	899.7	1049.3
137.5°	636.6	611.7	586.8	611.7	636.6	642.7	703.1	783.6	823.8	887.0	1013.5
140°	654.1	631.3	608.4	631.3	654.1	659.8	713.2	784.3	819.8	874.5	983.8
142.5°	667.4	646.1	625.0	646.1	667.4	672.6	721.7	787.2	819.8	867.8	963.8
145°	687.3	668.9	650.4	668.9	687.3	692.0	732.8	787.2	814.4	853.6	932.1
147.5°	711.9	693.9	676.0	693.9	711.9	716.3	749.0	792.6	814.4	845.3	907.0
150°	725.0	708.7	692.5	708.7	725.0	729.1	757.5	795.4	814.4	840.4	892.5
152.5°	734.3	722.0	709.7	722.0	734.3	737.4	763.1	797.3	814.4	836.7	881.2
155°	753.4	744.3	735.1	744.3	753.4	755.6	775.3	801.3	814.4	832.1	867.5
157.5°	771.7	762.9	754.0	762.9	771.7	773.9	787.4	805.4	814.4	828.2	855.6
160°	780.5	773.6	766.7	773.6	780.5	782.2	793.0	807.2	814.4	826.2	849.7
162.5°	789.8	784.7	779.5	784.7	789.8	791.1	798.9	809.2	814.4	824.3	844.2
165°	802.6	798.0	793.3	798.0	802.6	803.8	807.3	812.0	814.4	821.5	835.8
167.5°	810.4	808.2	806.0	808.2	810.4	811.0	813.9	817.9	819.8	824.5	833.9
170°	818.8	816.5	814.4	816.5	818.8	819.3	819.5	819.7	819.8	824.5	833.9
172.5°	819.7	819.2	818.8	819.2	819.7	819.8	819.8	819.8	819.8	823.5	830.9
175°	824.9	824.9	824.9	824.9	824.9	824.9	823.1	820.9	819.8	822.2	826.9
177.5°	824.9	824.9	824.9	824.9	824.9	824.9	823.6	821.9	821.0	822.9	826.6
180°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9



TEST NUMBER: P934554

CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2	4804.2
2.5°	4636.0	4622.4	4640.6	4590.6	4640.6	4622.4	4636.0	4667.9	4640.6	4658.8	4676.9
5°	4067.9	4045.2	3972.4	3913.4	3972.4	4045.2	4067.9	4163.4	4208.8	4290.6	4399.7
7.5°	3636.1	3618.0	3599.8	3563.4	3599.8	3618.0	3636.1	3663.3	3708.8	3781.5	3863.4
10°	3540.7	3545.2	3572.5	3567.9	3572.5	3545.2	3540.7	3531.6	3517.9	3531.6	3581.6
12.5°	3786.1	3827.0	3977.0	3967.9	3977.0	3827.0	3786.1	3604.3	3481.6	3458.9	3467.9
15°	4067.9	4081.5	4113.3	4117.9	4113.3	4081.5	4067.9	3995.2	3627.0	3467.9	3417.9
17.5°	4095.2	4099.7	4122.5	4122.5	4122.5	4099.7	4095.2	4063.4	3940.6	3727.0	3445.3
20°	4072.4	4081.5	4127.0	4136.1	4127.0	4081.5	4072.4	4031.5	3963.4	3886.1	3672.5
22.5°	4063.4	4081.5	4117.9	4113.3	4117.9	4081.5	4063.4	3999.7	3940.6	3886.1	3799.7
25°	4017.9	4017.9	4022.5	4027.0	4022.5	4017.9	4017.9	3967.9	3849.8	3836.1	3786.1
27.5°	3922.5	3931.6	3958.8	3954.2	3958.8	3931.6	3922.5	3904.3	3777.1	3763.4	3727.0
30°	3836.1	3827.0	3804.3	3786.1	3804.3	3827.0	3836.1	3808.8	3681.5	3645.2	3654.3
32.5°	3690.7	3667.9	3645.2	3631.6	3645.2	3667.9	3690.7	3681.5	3586.1	3536.1	3545.2
35°	3517.9	3522.5	3517.9	3504.3	3517.9	3522.5	3517.9	3527.0	3467.9	3422.5	3417.9
37.5°	3395.2	3404.3	3399.8	3381.6	3399.8	3404.3	3395.2	3386.2	3304.3	3290.7	3299.8
40°	3268.0	3272.5	3268.0	3254.3	3268.0	3272.5	3268.0	3249.8	3136.2	3140.7	3172.5
42.5°	3145.2	3140.7	3127.1	3117.9	3127.1	3140.7	3145.2	3117.9	2972.5	2958.9	3018.0
45°	3004.3	3008.9	2981.6	2968.0	2981.6	3008.9	3004.3	2986.1	2836.2	2799.8	2840.7
47.5°	2863.5	2863.5	2840.7	2827.0	2840.7	2863.5	2863.5	2840.7	2681.6	2645.3	2668.0
50°	2713.4	2708.9	2677.1	2672.5	2677.1	2708.9	2713.4	2699.8	2531.7	2499.8	2499.8
52.5°	2540.7	2540.7	2545.3	2554.3	2545.3	2540.7	2540.7	2545.3	2395.3	2363.4	2354.4
55°	2390.8	2395.3	2427.1	2436.2	2427.1	2395.3	2390.8	2390.8	2254.4	2222.6	2204.3
57.5°	2236.2	2236.2	2259.0	2259.0	2259.0	2236.2	2236.2	2227.1	2095.3	2068.1	2058.9
60°	2058.9	2068.1	2086.3	2081.7	2086.3	2068.1	2058.9	2049.8	1936.2	1918.0	1886.2
62.5°	1872.6	1881.7	1886.2	1877.1	1886.2	1881.7	1872.6	1845.3	1777.1	1763.5	1722.6
65°	1677.2	1686.2	1690.8	1681.7	1690.8	1686.2	1677.2	1663.5	1613.5	1590.8	1554.4
67.5°	1477.2	1472.6	1468.0	1486.2	1468.0	1472.6	1477.2	1459.0	1427.2	1409.0	1359.0
70°	1272.6	1272.6	1268.1	1277.2	1268.1	1272.6	1272.6	1259.0	1240.8	1227.2	1181.7
72.5°	1054.5	1049.9	1068.1	1054.5	1068.1	1049.9	1054.5	1049.9	1040.8	1027.2	981.7
75°	840.9	849.9	840.9	854.5	840.9	849.9	840.9	845.4	840.9	831.7	800.0
77.5°	640.9	650.0	640.9	640.9	640.9	650.0	640.9	645.4	645.4	645.4	618.1
80°	454.5	450.0	450.0	445.4	450.0	450.0	454.5	454.5	459.0	450.0	440.9
82.5°	290.9	286.3	286.3	295.5	286.3	286.3	290.9	295.5	286.3	286.3	286.3
85°	159.1	163.7	154.5	154.5	154.5	163.7	159.1	150.0	159.1	159.1	154.5
87.5°	59.1	54.5	54.5	54.5	54.5	54.5	59.1	63.7	63.7	63.7	68.1
90°	21.0	21.0	21.0	21.0	21.0	21.0	21.0	28.0	37.4	42.1	36.2
92.5°	105.2	101.0	84.2	67.5	84.2	101.0	105.2	149.1	207.6	236.9	208.0
95°	357.1	344.3	293.7	243.0	293.7	344.3	357.1	468.9	617.9	692.5	584.9
97.5°	824.3	800.2	703.7	607.3	703.7	800.2	824.3	895.0	989.2	1036.3	856.8
100°	1157.5	1128.8	1013.9	899.1	1013.9	1128.8	1157.5	1152.4	1145.5	1142.1	942.9
102.5°	1442.1	1417.5	1319.1	1220.7	1319.1	1417.5	1442.1	1352.0	1231.9	1172.0	970.0
105°	1774.2	1761.0	1708.2	1655.3	1708.2	1761.0	1774.2	1572.3	1303.2	1168.7	973.0
107.5°	1947.0	1950.3	1963.0	1975.8	1963.0	1950.3	1947.0	1665.5	1290.0	1102.2	929.8
110°	1991.3	2005.1	2060.1	2115.3	2060.1	2005.1	1991.3	1676.5	1256.7	1046.9	891.4



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1963.1	1984.2	2068.9	2153.5	2068.9	1984.2	1963.1	1640.8	1211.3	996.5	857.8
115°	1867.3	1896.6	2014.0	2131.4	2014.0	1896.6	1867.3	1556.9	1143.0	936.1	819.4
117.5°	1734.9	1767.4	1897.6	2027.8	1897.6	1767.4	1734.9	1454.8	1081.4	894.6	795.3
120°	1645.9	1677.5	1804.0	1930.4	1804.0	1677.5	1645.9	1389.9	1048.7	878.0	787.2
122.5°	1556.7	1587.8	1712.6	1837.4	1712.6	1587.8	1556.7	1326.2	1018.9	865.2	783.0
125°	1438.8	1467.5	1582.4	1697.3	1582.4	1467.5	1438.8	1243.0	982.0	851.4	779.5
127.5°	1344.1	1368.4	1465.3	1562.2	1465.3	1368.4	1344.1	1176.0	951.9	839.8	777.4
130°	1284.3	1306.7	1396.3	1485.9	1396.3	1306.7	1284.3	1134.7	935.2	835.4	778.7
132.5°	1233.4	1253.4	1333.7	1413.9	1333.7	1253.4	1233.4	1099.4	920.8	831.5	779.5
135°	1161.5	1178.8	1247.9	1317.0	1247.9	1178.8	1161.5	1049.3	899.7	824.9	778.7
137.5°	1108.3	1122.5	1179.0	1235.6	1179.0	1122.5	1108.3	1013.5	887.0	823.8	783.6
140°	1065.7	1078.9	1131.8	1184.7	1131.8	1078.9	1065.7	983.8	874.5	819.8	784.3
142.5°	1035.8	1047.2	1092.7	1138.2	1092.7	1047.2	1035.8	963.8	867.8	819.8	787.2
145°	990.9	999.5	1034.0	1068.5	1034.0	999.5	990.9	932.1	853.6	814.4	787.2
147.5°	953.3	960.5	989.0	1017.5	989.0	960.5	953.3	907.0	845.3	814.4	792.6
150°	931.7	937.5	960.6	983.8	960.6	937.5	931.7	892.5	840.4	814.4	795.4
152.5°	914.6	918.9	936.4	953.9	936.4	918.9	914.6	881.2	836.7	814.4	797.3
155°	894.1	896.9	908.6	920.1	908.6	896.9	894.1	867.5	832.1	814.4	801.3
157.5°	876.3	878.4	886.4	894.6	886.4	878.4	876.3	855.6	828.2	814.4	805.4
160°	867.5	868.6	873.4	878.0	873.4	868.6	867.5	849.7	826.2	814.4	807.2
162.5°	859.1	860.2	864.7	869.2	864.7	860.2	859.1	844.2	824.3	814.4	809.2
165°	846.4	847.6	852.3	857.0	852.3	847.6	846.4	835.8	821.5	814.4	812.0
167.5°	840.9	841.4	843.4	845.4	843.4	841.4	840.9	833.9	824.5	819.8	817.9
170°	840.9	840.9	840.9	840.9	840.9	840.9	840.9	833.9	824.5	819.8	819.7
172.5°	836.5	836.0	834.3	832.6	834.3	836.0	836.5	830.9	823.5	819.8	819.8
175°	830.4	830.4	830.4	830.4	830.4	830.4	830.4	826.9	822.2	819.8	820.9
177.5°	829.3	828.8	826.8	824.9	826.8	828.8	829.3	826.6	822.9	821.0	821.9
180°	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9	824.9



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4804.2	4804.2	4804.2	4804.2	4804.2
2.5°	4745.2	4767.9	4781.5	4799.7	4845.2
5°	4563.3	4649.7	4676.9	4745.2	4826.9
7.5°	4163.4	4427.0	4499.7	4663.3	4790.5
10°	3777.1	4040.6	4167.9	4554.3	4745.2
12.5°	3581.6	3736.1	3822.4	4363.3	4681.5
15°	3458.9	3567.9	3631.6	4108.8	4608.8
17.5°	3363.4	3440.7	3486.2	3858.8	4508.8
20°	3304.3	3340.7	3381.6	3677.0	4395.2
22.5°	3263.4	3240.7	3272.5	3549.7	4240.6
25°	3236.1	3149.8	3186.1	3449.7	4058.8
27.5°	3258.8	3068.0	3081.6	3358.9	3867.9
30°	3263.4	2968.0	2972.5	3263.4	3654.3
32.5°	3231.6	2863.5	2868.0	3145.2	3413.4
35°	3154.4	2740.7	2736.2	3008.9	3086.1
37.5°	3049.8	2608.9	2608.9	2858.9	2727.1
40°	2922.6	2477.1	2490.8	2663.5	2408.9
42.5°	2767.9	2336.2	2354.4	2404.4	2172.6
45°	2599.8	2199.9	2213.5	2031.6	1990.7
47.5°	2413.5	2058.9	2063.5	1686.2	1931.7
50°	2190.7	1913.5	1895.3	1445.4	1927.2
52.5°	1995.3	1754.5	1699.8	1309.0	1749.9
55°	1804.4	1586.2	1468.0	1204.5	1622.6
57.5°	1636.3	1368.1	1254.4	1081.7	1595.4
60°	1481.7	1154.5	1068.1	949.9	1463.6
62.5°	1354.4	995.4	977.2	859.1	1327.2
65°	1218.1	886.3	881.8	781.8	1127.2
67.5°	1086.3	813.6	809.0	709.0	859.1
70°	945.4	736.3	727.3	631.7	636.3
72.5°	800.0	650.0	640.9	568.2	527.2
75°	654.5	550.0	545.4	495.4	427.2
77.5°	513.6	436.4	445.4	399.9	313.6
80°	368.2	318.2	327.2	286.3	236.4
82.5°	245.4	209.1	218.2	181.8	159.1
85°	136.4	118.2	122.7	95.4	72.7
87.5°	63.7	54.5	54.5	36.3	22.7
90°	24.4	15.5	14.4	9.9	5.6
92.5°	150.1	106.8	97.4	59.7	22.1
95°	369.6	208.2	191.0	122.0	53.2
97.5°	497.9	228.7	213.4	152.7	91.9
100°	544.5	245.8	232.0	176.9	121.8
102.5°	565.9	263.0	250.1	198.7	147.3
105°	581.8	288.4	277.5	233.9	190.4
107.5°	584.8	326.1	316.0	275.3	234.8
110°	580.3	347.1	338.0	301.3	264.7



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CATALOG NUMBER: SQ4-FA-050U-125D-93050-1D-UNV-STD-W-12-3500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	580.5	372.5	363.8	328.8	293.9
115°	585.9	410.8	402.7	370.5	338.2
117.5°	596.7	447.8	440.5	411.2	381.9
120°	605.6	469.4	462.5	435.0	407.5
122.5°	618.4	494.9	487.9	460.2	432.3
125°	635.6	527.6	521.3	495.9	470.6
127.5°	652.7	559.1	552.8	527.2	501.6
130°	665.2	580.2	573.3	545.8	518.2
132.5°	675.4	597.4	590.5	562.9	535.3
135°	686.4	617.2	611.0	585.9	560.8
137.5°	703.1	642.7	636.6	611.7	586.8
140°	713.2	659.8	654.1	631.3	608.4
142.5°	721.7	672.6	667.4	646.1	625.0
145°	732.8	692.0	687.3	668.9	650.4
147.5°	749.0	716.3	711.9	693.9	676.0
150°	757.5	729.1	725.0	708.7	692.5
152.5°	763.1	737.4	734.3	722.0	709.7
155°	775.3	755.6	753.4	744.3	735.1
157.5°	787.4	773.9	771.7	762.9	754.0
160°	793.0	782.2	780.5	773.6	766.7
162.5°	798.9	791.1	789.8	784.7	779.5
165°	807.3	803.8	802.6	798.0	793.3
167.5°	813.9	811.0	810.4	808.2	806.0
170°	819.5	819.3	818.8	816.5	814.4
172.5°	819.8	819.8	819.7	819.2	818.8
175°	823.1	824.9	824.9	824.9	824.9
177.5°	823.6	824.9	824.9	824.9	824.9
180°	824.9	824.9	824.9	824.9	824.9



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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	15.86	16.93	16.62	17.72	18.67	18.71	19.78	19.47	20.57	21.52
	3H	16.35	17.31	17.13	18.11	19.09	20.07	21.04	20.85	21.84	22.82
	4H	16.55	17.46	17.34	18.26	19.26	20.53	21.44	21.33	22.25	23.24
	6H	16.68	17.52	17.49	18.33	19.34	20.83	21.67	21.64	22.49	23.50
	8H	16.69	17.49	17.50	18.32	19.33	20.92	21.72	21.74	22.55	23.56
	12H	16.66	17.43	17.49	18.25	19.29	20.97	21.73	21.79	22.56	23.59
4H	2H	16.92	17.83	17.72	18.63	19.63	19.14	20.05	19.94	20.86	21.85
	3H	17.97	18.72	18.78	19.56	20.58	20.67	21.43	21.48	22.27	23.28
	4H	18.25	18.94	19.08	19.78	20.82	21.21	21.90	22.04	22.74	23.78
	6H	18.39	18.98	19.23	19.85	20.89	21.60	22.19	22.44	23.06	24.10
	8H	18.40	18.96	19.24	19.81	20.87	21.71	22.27	22.56	23.13	24.18
	12H	18.38	18.88	19.24	19.76	20.82	21.78	22.28	22.65	23.16	24.23
8H	4H	18.72	19.28	19.57	20.14	21.20	21.35	21.91	22.20	22.77	23.83
	6H	18.99	19.46	19.87	20.36	21.41	21.81	22.27	22.68	23.17	24.22
	8H	19.04	19.45	19.92	20.34	21.42	21.96	22.37	22.85	23.27	24.34
	12H	19.03	19.39	19.92	20.28	21.41	22.08	22.44	22.96	23.32	24.45
12H	4H	18.74	19.24	19.61	20.12	21.18	21.33	21.83	22.20	22.71	23.77
	6H	19.06	19.47	19.94	20.36	21.44	21.80	22.21	22.69	23.11	24.18
	8H	19.14	19.50	20.02	20.38	21.51	21.98	22.34	22.87	23.23	24.35