

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: P934529

Luminaire Tested: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934529
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-92765-1D-UNV-STD-W-12-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

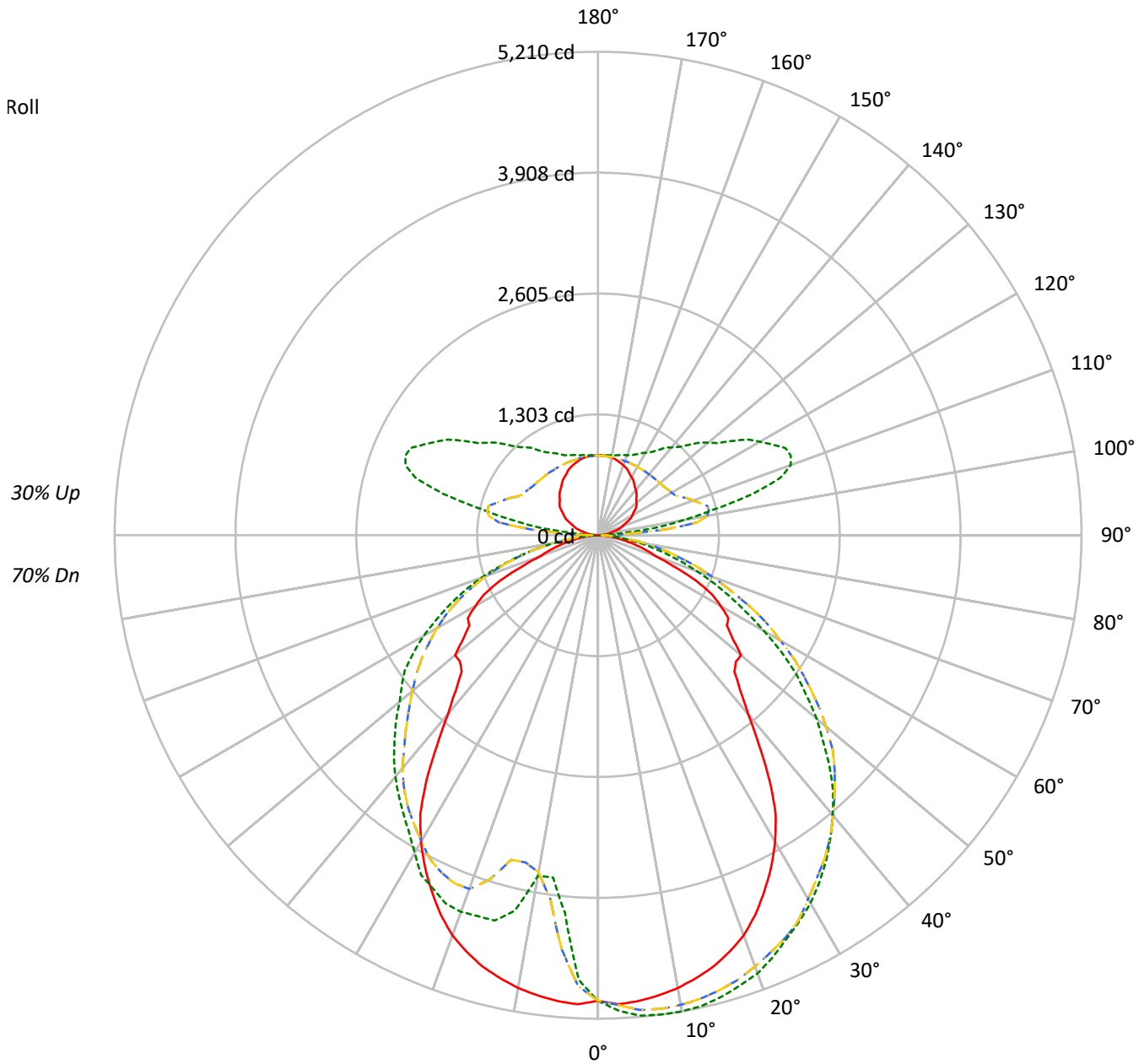
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18590.3 lumens
Efficiency: N/A
Efficacy: 110.7 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	0
RCR																		
0	112	112	112	112	106	106	106	106	94	94	94	84	84	84	74	74	74	70
1	102	98	94	90	97	93	89	86	83	80	78	74	72	70	66	65	63	59
2	93	86	79	74	88	81	76	71	73	68	65	65	62	59	58	56	53	50
3	85	75	68	62	80	71	65	59	64	59	54	58	53	50	52	48	45	42
4	78	67	58	52	73	63	56	50	57	51	46	51	47	43	46	42	39	36
5	72	60	51	45	67	57	49	43	51	45	40	46	41	37	41	37	34	31
6	66	53	45	39	62	51	43	38	46	40	35	42	36	32	38	33	30	27
7	61	48	40	34	58	46	39	33	42	36	31	38	33	29	34	30	27	24
8	57	44	36	30	54	42	35	29	38	32	28	35	30	26	31	27	24	22
9	53	40	32	27	50	38	31	26	35	29	25	32	27	23	29	25	21	19
10	49	37	30	25	47	35	28	24	32	26	22	30	25	21	27	23	19	18

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	15514	15514	15514	15514
5°	15635	15660	15635	12314
10°	15536	15426	15536	11029
15°	15373	15092	15373	12602
20°	15058	14696	15058	12628
25°	14406	14119	14406	12361
30°	13561	13639	13561	11773
35°	12095	13033	12095	11128
40°	10084	12319	10084	10640
45°	9016	11483	9016	10079
50°	9586	10486	9586	9516
55°	9028	9413	9028	9190
60°	9318	7994	9318	8417
65°	8462	6609	8462	7387
70°	5873	5267	5873	6192
75°	5169	3893	5169	4662
80°	4198	2574	4198	2802
85°	2459	1363	2459	1158

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 13810 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	452.7	2.4
10°-20°	1285.5	6.9
20°-30°	1987.1	10.7
30°-40°	2372.2	12.8
40°-50°	2386.1	12.8
50°-60°	2076.2	11.2
60°-70°	1472.0	7.9
70°-80°	778.8	4.2
80°-90°	197.2	1.1
90°-100°	419.8	2.3
100°-110°	1103.6	5.9
110°-120°	1144.3	6.2
120°-130°	917.9	4.9
130°-140°	720.2	3.9
140°-150°	552.8	3.0
150°-160°	398.1	2.1
160°-170°	243.6	1.3
170°-180°	82.3	0.4
0°-30°	3725.3	20.0
0°-40°	6097.5	32.8
0°-60°	10559.8	56.8
0°-90°	13007.8	70.0
90°-120°	2667.6	14.3
90°-150°	4858.5	26.1
90°-180°	5582.0	30.0
0°-180°	18590.3	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	5016	5016	5016	5016	5016	
5°	5039	5196	5039	4086	5039	478
15°	4812	5148	4812	4299	4812	1354
25°	4237	4802	4237	4204	4237	1946
35°	3222	4285	3222	3658	3222	1993
45°	2078	3530	2078	3099	2078	1665
55°	1694	2605	1694	2543	1694	1557
65°	1177	1571	1177	1756	1177	1125
75°	446	745	446	892	446	469
85°	76	190	76	161	76	103
90°	6	22	6	22	6	8
95°	56	254	56	254	56	62
105°	199	1728	199	1728	199	211
115°	353	2225	353	2225	353	349
125°	491	1772	491	1772	491	436
135°	586	1375	586	1375	586	453
145°	679	1116	679	1116	679	425
155°	768	961	768	961	768	353
165°	828	895	828	895	828	234
175°	861	867	861	867	861	82
180°	861	861	861	861	861	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6
2.5°	5058.3	5058.3	5086.8	5096.3	5096.3	5082.0	5067.8	5082.0	5124.7	5139.0	5134.2
5°	5039.3	5077.3	5129.5	5139.0	5148.5	5143.7	5134.2	5143.7	5191.2	5200.7	5205.4
7.5°	5001.3	5072.6	5139.0	5153.2	5167.4	5153.2	5148.5	5158.0	5205.4	5214.9	5214.9
10°	4953.9	5053.6	5129.5	5139.0	5153.2	5139.0	5139.0	5158.0	5205.4	5214.9	5219.7
12.5°	4887.5	5025.1	5096.3	5105.7	5124.7	5119.9	5115.3	5134.2	5181.6	5191.2	5191.2
15°	4811.6	4972.9	5039.3	5048.8	5082.0	5072.6	5072.6	5091.5	5143.7	5158.0	5153.2
17.5°	4707.2	4906.5	4982.4	4996.7	5020.3	5015.6	5020.3	5039.3	5086.8	5096.3	5101.0
20°	4588.6	4816.3	4906.5	4920.7	4944.4	4944.4	4944.4	4968.1	5015.6	5034.6	5034.6
22.5°	4427.2	4721.4	4816.3	4825.8	4854.3	4854.3	4863.7	4896.9	4939.6	4944.4	4944.4
25°	4237.4	4617.0	4697.6	4726.2	4754.7	4768.9	4783.1	4802.1	4816.3	4811.6	4816.3
27.5°	4038.1	4484.2	4588.6	4607.5	4645.5	4659.7	4678.7	4683.4	4688.2	4702.4	4693.0
30°	3815.1	4299.1	4455.7	4474.6	4536.3	4545.8	4526.9	4536.3	4560.1	4569.6	4579.0
32.5°	3563.6	4023.9	4318.1	4360.8	4417.7	4389.3	4384.5	4398.7	4436.7	4436.7	4446.2
35°	3221.9	3810.3	4189.9	4227.9	4270.6	4237.4	4256.4	4261.1	4284.9	4299.1	4294.3
37.5°	2847.1	3625.3	4057.1	4085.6	4118.8	4076.1	4104.6	4118.8	4137.8	4128.2	4128.2
40°	2514.9	3335.8	3900.5	3919.5	3947.9	3914.7	3943.2	3952.7	3962.2	3952.7	3947.9
42.5°	2268.2	3017.9	3734.4	3758.2	3739.2	3762.8	3772.4	3791.4	3777.1	3758.2	3758.2
45°	2078.3	2932.5	3554.1	3582.5	3554.1	3592.1	3606.3	3606.3	3563.6	3554.1	3549.4
47.5°	2016.7	2761.7	3373.8	3373.8	3359.5	3407.0	3430.7	3397.5	3354.8	3340.5	3340.5
50°	2012.0	2571.8	3127.1	3108.1	3174.4	3231.5	3207.7	3174.4	3141.3	3089.1	3089.1
52.5°	1826.9	2339.4	2809.1	2880.3	2984.7	3017.9	2979.9	2946.8	2889.7	2866.1	2847.1
55°	1694.0	2097.4	2519.7	2662.0	2771.1	2813.8	2742.7	2709.4	2624.1	2609.8	2600.4
57.5°	1665.6	1746.2	2254.0	2434.3	2567.1	2562.4	2519.7	2458.0	2386.8	2372.6	2367.8
60°	1528.0	1262.2	1969.2	2182.7	2320.4	2306.1	2268.2	2211.2	2144.8	2135.3	2125.8
62.5°	1385.6	915.8	1646.6	1888.6	2083.1	2078.3	2045.1	1959.7	1912.3	1888.6	1869.6
65°	1176.8	768.7	1172.0	1570.7	1850.6	1860.1	1788.9	1727.2	1675.0	1646.6	1641.8
67.5°	896.9	626.3	792.4	1309.6	1627.6	1618.1	1528.0	1499.5	1433.0	1418.8	1390.3
70°	664.3	417.5	550.4	1062.9	1409.3	1385.6	1314.4	1281.2	1219.5	1186.2	1167.3
72.5°	550.4	336.9	403.3	825.6	1186.2	1157.8	1096.1	1058.2	1005.9	977.5	958.5
75°	446.0	355.8	308.5	612.1	963.2	944.2	887.3	849.4	806.7	768.7	773.5
77.5°	327.4	332.2	246.8	450.8	763.9	735.5	702.2	654.9	635.9	597.9	597.9
80°	246.8	261.0	185.1	308.5	550.4	550.4	521.9	488.8	455.6	436.5	436.5
82.5°	166.1	166.1	137.6	194.5	374.9	360.6	341.6	332.2	313.2	303.7	303.7
85°	75.9	94.9	85.4	118.6	204.0	213.5	213.5	204.0	199.3	189.8	194.5
87.5°	23.7	42.7	52.2	66.5	104.4	109.2	113.8	113.8	113.8	118.6	118.6
90°	5.8	10.4	15.0	16.2	25.4	37.8	43.9	39.1	29.3	22.0	22.0
92.5°	23.1	62.3	101.7	111.5	156.8	217.1	247.3	216.8	155.6	109.8	105.4
95°	55.5	127.4	199.4	217.3	385.8	610.6	723.0	645.1	489.5	372.8	359.5
97.5°	95.9	159.4	222.8	238.7	519.8	894.5	1081.9	1032.8	934.3	860.6	835.4
100°	127.1	184.7	242.2	256.6	568.5	984.3	1192.3	1195.9	1203.1	1208.5	1178.5
102.5°	153.8	207.4	261.1	274.5	590.8	1012.7	1223.5	1286.2	1411.5	1505.5	1479.8
105°	198.8	244.2	289.7	301.1	607.4	1015.8	1220.1	1360.6	1641.5	1852.3	1838.5
107.5°	245.1	287.4	329.9	340.4	610.5	970.7	1150.7	1346.7	1738.7	2032.7	2036.1
110°	276.3	314.5	352.9	362.4	605.9	930.6	1093.0	1312.0	1750.2	2078.9	2093.3



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	306.9	343.3	379.8	388.9	606.1	895.5	1040.3	1264.6	1713.0	2049.4	2071.5
115°	353.1	386.8	420.4	428.8	611.7	855.4	977.3	1193.3	1625.4	1949.4	1980.1
117.5°	398.7	429.3	459.9	467.5	623.0	830.3	934.0	1128.9	1518.8	1811.3	1845.2
120°	425.4	454.2	482.9	490.1	632.2	821.9	916.7	1094.8	1451.0	1718.3	1751.3
122.5°	451.4	480.4	509.4	516.7	645.6	817.4	903.3	1063.7	1384.6	1625.2	1657.7
125°	491.3	517.7	544.2	550.8	663.5	813.8	888.9	1025.2	1297.7	1502.1	1532.1
127.5°	523.6	550.4	577.1	583.7	681.4	811.6	876.8	993.8	1227.7	1403.3	1428.6
130°	541.0	569.8	598.5	605.7	694.5	812.9	872.2	976.3	1184.6	1340.8	1364.2
132.5°	558.9	587.6	616.4	623.6	705.1	813.8	868.1	961.3	1147.8	1287.7	1308.6
135°	585.5	611.7	637.8	644.4	716.6	813.0	861.1	939.3	1095.5	1212.6	1230.6
137.5°	612.6	638.6	664.6	671.0	734.0	818.1	860.0	926.0	1058.1	1157.1	1171.8
140°	635.1	659.1	682.9	688.9	744.6	818.8	855.9	912.9	1027.1	1112.6	1126.4
142.5°	652.5	674.6	696.7	702.2	753.5	821.8	855.9	906.0	1006.2	1081.4	1093.2
145°	679.1	698.3	717.6	722.4	765.1	821.8	850.2	891.1	973.1	1034.5	1043.5
147.5°	705.7	724.4	743.2	747.9	782.0	827.5	850.2	882.5	947.0	995.3	1002.8
150°	723.0	739.9	756.9	761.1	790.9	830.4	850.2	877.4	931.8	972.7	978.7
152.5°	740.9	753.7	766.6	769.8	796.6	832.4	850.2	873.5	919.9	954.8	959.4
155°	767.5	777.0	786.6	788.9	809.4	836.6	850.2	868.7	905.6	933.4	936.4
157.5°	787.2	796.5	805.6	808.0	822.1	840.9	850.2	864.6	893.3	914.9	917.0
160°	800.5	807.7	814.9	816.7	827.9	842.7	850.2	862.5	887.1	905.6	906.9
162.5°	813.8	819.2	824.6	825.9	834.0	844.8	850.2	860.6	881.3	896.9	898.1
165°	828.2	833.1	838.0	839.2	842.8	847.8	850.2	857.7	872.5	883.7	884.9
167.5°	841.5	843.8	846.1	846.7	849.7	853.9	855.9	860.8	870.6	877.9	878.4
170°	850.2	852.5	854.8	855.3	855.5	855.8	855.9	860.8	870.6	877.9	877.9
172.5°	854.8	855.3	855.8	855.9	855.9	855.9	855.9	859.7	867.5	873.3	872.8
175°	861.1	861.1	861.1	861.1	859.4	857.0	855.9	858.3	863.3	866.9	866.9
177.5°	861.1	861.1	861.1	861.1	859.8	858.1	857.1	859.1	862.9	865.8	865.3
180°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6
2.5°	5143.7	5129.5	5143.7	5134.2	5139.0	5124.7	5082.0	5067.8	5082.0	5096.3	5096.3
5°	5205.4	5195.9	5205.4	5205.4	5200.7	5191.2	5143.7	5134.2	5143.7	5148.5	5139.0
7.5°	5224.4	5210.1	5224.4	5214.9	5214.9	5205.4	5158.0	5148.5	5153.2	5167.4	5153.2
10°	5224.4	5210.1	5224.4	5219.7	5214.9	5205.4	5158.0	5139.0	5139.0	5153.2	5139.0
12.5°	5200.7	5191.2	5200.7	5191.2	5191.2	5181.6	5134.2	5115.3	5119.9	5124.7	5105.7
15°	5162.7	5148.5	5162.7	5153.2	5158.0	5143.7	5091.5	5072.6	5072.6	5082.0	5048.8
17.5°	5105.7	5086.8	5105.7	5101.0	5096.3	5086.8	5039.3	5020.3	5015.6	5020.3	4996.7
20°	5039.3	5025.1	5039.3	5034.6	5034.6	5015.6	4968.1	4944.4	4944.4	4944.4	4920.7
22.5°	4935.0	4920.7	4935.0	4944.4	4944.4	4939.6	4896.9	4863.7	4854.3	4854.3	4825.8
25°	4816.3	4802.1	4816.3	4816.3	4811.6	4816.3	4802.1	4783.1	4768.9	4754.7	4726.2
27.5°	4702.4	4693.0	4702.4	4693.0	4702.4	4688.2	4683.4	4678.7	4659.7	4645.5	4607.5
30°	4588.6	4579.0	4588.6	4579.0	4569.6	4560.1	4536.3	4526.9	4545.8	4536.3	4474.6
32.5°	4446.2	4436.7	4446.2	4446.2	4436.7	4436.7	4398.7	4384.5	4389.3	4417.7	4360.8
35°	4299.1	4284.9	4299.1	4294.3	4299.1	4284.9	4261.1	4256.4	4237.4	4270.6	4227.9
37.5°	4128.2	4114.0	4128.2	4128.2	4128.2	4137.8	4118.8	4104.6	4076.1	4118.8	4085.6
40°	3952.7	3933.7	3952.7	3947.9	3952.7	3962.2	3952.7	3943.2	3914.7	3947.9	3919.5
42.5°	3753.4	3748.6	3753.4	3758.2	3758.2	3777.1	3791.4	3772.4	3762.8	3739.2	3758.2
45°	3539.8	3530.4	3539.8	3549.4	3554.1	3563.6	3606.3	3606.3	3592.1	3554.1	3582.5
47.5°	3312.1	3288.4	3312.1	3340.5	3340.5	3354.8	3397.5	3430.7	3407.0	3359.5	3373.8
50°	3070.1	3074.8	3070.1	3089.1	3089.1	3141.3	3174.4	3207.7	3231.5	3174.4	3108.1
52.5°	2832.8	2828.1	2832.8	2847.1	2866.1	2889.7	2946.8	2979.9	3017.9	2984.7	2880.3
55°	2595.6	2605.1	2595.6	2600.4	2609.8	2624.1	2709.4	2742.7	2813.8	2771.1	2662.0
57.5°	2358.4	2344.1	2358.4	2367.8	2372.6	2386.8	2458.0	2519.7	2562.4	2567.1	2434.3
60°	2083.1	2064.1	2083.1	2125.8	2135.3	2144.8	2211.2	2268.2	2306.1	2320.4	2182.7
62.5°	1841.1	1807.9	1841.1	1869.6	1888.6	1912.3	1959.7	2045.1	2078.3	2083.1	1888.6
65°	1584.9	1570.7	1584.9	1641.8	1646.6	1675.0	1727.2	1788.9	1860.1	1850.6	1570.7
67.5°	1352.3	1352.3	1352.3	1390.3	1418.8	1433.0	1499.5	1528.0	1618.1	1627.6	1309.6
70°	1138.8	1134.1	1138.8	1167.3	1186.2	1219.5	1281.2	1314.4	1385.6	1409.3	1062.9
72.5°	934.8	930.0	934.8	958.5	977.5	1005.9	1058.2	1096.1	1157.8	1186.2	825.6
75°	754.5	745.0	754.5	773.5	768.7	806.7	849.4	887.3	944.2	963.2	612.1
77.5°	578.9	578.9	578.9	597.9	597.9	635.9	654.9	702.2	735.5	763.9	450.8
80°	431.8	427.1	431.8	436.5	436.5	455.6	488.8	521.9	550.4	550.4	308.5
82.5°	303.7	294.2	303.7	303.7	303.7	313.2	332.2	341.6	360.6	374.9	194.5
85°	189.8	189.8	189.8	194.5	189.8	199.3	204.0	213.5	213.5	204.0	118.6
87.5°	123.4	118.6	123.4	118.6	118.6	113.8	113.8	113.8	109.2	104.4	66.5
90°	22.0	22.0	22.0	22.0	22.0	29.3	39.1	43.9	37.8	25.4	16.2
92.5°	88.0	70.5	88.0	105.4	109.8	155.6	216.8	247.3	217.1	156.8	111.5
95°	306.6	253.7	306.6	359.5	372.8	489.5	645.1	723.0	610.6	385.8	217.3
97.5°	734.7	634.0	734.7	835.4	860.6	934.3	1032.8	1081.9	894.5	519.8	238.7
100°	1058.6	938.6	1058.6	1178.5	1208.5	1203.1	1195.9	1192.3	984.3	568.5	256.6
102.5°	1377.1	1274.4	1377.1	1479.8	1505.5	1411.5	1286.2	1223.5	1012.7	590.8	274.5
105°	1783.3	1728.1	1783.3	1838.5	1852.3	1641.5	1360.6	1220.1	1015.8	607.4	301.1
107.5°	2049.3	2062.7	2049.3	2036.1	2032.7	1738.7	1346.7	1150.7	970.7	610.5	340.4
110°	2150.8	2208.3	2150.8	2093.3	2078.9	1750.2	1312.0	1093.0	930.6	605.9	362.4



TEST NUMBER: P934529

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2159.9	2248.2	2159.9	2071.5	2049.4	1713.0	1264.6	1040.3	895.5	606.1	388.9
115°	2102.6	2225.2	2102.6	1980.1	1949.4	1625.4	1193.3	977.3	855.4	611.7	428.8
117.5°	1981.1	2117.0	1981.1	1845.2	1811.3	1518.8	1128.9	934.0	830.3	623.0	467.5
120°	1883.3	2015.3	1883.3	1751.3	1718.3	1451.0	1094.8	916.7	821.9	632.2	490.1
122.5°	1788.0	1918.2	1788.0	1657.7	1625.2	1384.6	1063.7	903.3	817.4	645.6	516.7
125°	1652.0	1772.0	1652.0	1532.1	1502.1	1297.7	1025.2	888.9	813.8	663.5	550.8
127.5°	1529.7	1631.0	1529.7	1428.6	1403.3	1227.7	993.8	876.8	811.6	681.4	583.7
130°	1457.8	1551.2	1457.8	1364.2	1340.8	1184.6	976.3	872.2	812.9	694.5	605.7
132.5°	1392.3	1476.1	1392.3	1308.6	1287.7	1147.8	961.3	868.1	813.8	705.1	623.6
135°	1302.8	1375.0	1302.8	1230.6	1212.6	1095.5	939.3	861.1	813.0	716.6	644.4
137.5°	1230.9	1290.0	1230.9	1171.8	1157.1	1058.1	926.0	860.0	818.1	734.0	671.0
140°	1181.6	1236.8	1181.6	1126.4	1112.6	1027.1	912.9	855.9	818.8	744.6	688.9
142.5°	1140.8	1188.3	1140.8	1093.2	1081.4	1006.2	906.0	855.9	821.8	753.5	702.2
145°	1079.5	1115.5	1079.5	1043.5	1034.5	973.1	891.1	850.2	821.8	765.1	722.4
147.5°	1032.5	1062.3	1032.5	1002.8	995.3	947.0	882.5	850.2	827.5	782.0	747.9
150°	1002.8	1027.1	1002.8	978.7	972.7	931.8	877.4	850.2	830.4	790.9	761.1
152.5°	977.6	995.8	977.6	959.4	954.8	919.9	873.5	850.2	832.4	796.6	769.8
155°	948.5	960.6	948.5	936.4	933.4	905.6	868.7	850.2	836.6	809.4	788.9
157.5°	925.5	934.0	925.5	917.0	914.9	893.3	864.6	850.2	840.9	822.1	808.0
160°	911.8	916.7	911.8	906.9	905.6	887.1	862.5	850.2	842.7	827.9	816.7
162.5°	902.7	907.4	902.7	898.1	896.9	881.3	860.6	850.2	844.8	834.0	825.9
165°	889.8	894.7	889.8	884.9	883.7	872.5	857.7	850.2	847.8	842.8	839.2
167.5°	880.5	882.5	880.5	878.4	877.9	870.6	860.8	855.9	853.9	849.7	846.7
170°	877.9	877.9	877.9	877.9	877.9	870.6	860.8	855.9	855.8	855.5	855.3
172.5°	871.1	869.3	871.1	872.8	873.3	867.5	859.7	855.9	855.9	855.9	855.9
175°	866.9	866.9	866.9	866.9	866.9	863.3	858.3	855.9	857.0	859.4	861.1
177.5°	863.2	861.1	863.2	865.3	865.8	862.9	859.1	857.1	858.1	859.8	861.1
180°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1



TEST NUMBER: P934529

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6
2.5°	5086.8	5058.3	5058.3	5010.9	4991.9	4977.7	4953.9	4882.7	4863.7	4844.8	4873.3
5°	5129.5	5077.3	5039.3	4953.9	4882.7	4854.3	4764.1	4593.2	4479.4	4394.0	4346.6
7.5°	5139.0	5072.6	5001.3	4868.5	4697.6	4621.7	4346.6	4033.3	3947.9	3872.0	3824.5
10°	5129.5	5053.6	4953.9	4754.7	4351.2	4218.4	3943.2	3739.2	3686.9	3672.7	3686.9
12.5°	5096.3	5025.1	4887.5	4555.3	3990.6	3900.5	3739.2	3620.5	3611.0	3634.8	3762.8
15°	5039.3	4972.9	4811.6	4289.6	3791.4	3724.9	3611.0	3568.3	3620.5	3786.6	4170.9
17.5°	4982.4	4906.5	4707.2	4028.6	3639.6	3592.1	3511.4	3596.8	3891.0	4114.0	4242.2
20°	4906.5	4816.3	4588.6	3838.8	3530.4	3487.7	3449.7	3834.1	4057.1	4137.8	4208.9
22.5°	4816.3	4721.4	4427.2	3705.9	3416.5	3383.3	3407.0	3966.9	4057.1	4114.0	4175.7
25°	4697.6	4617.0	4237.4	3601.5	3326.3	3288.4	3378.5	3952.7	4004.8	4019.1	4142.5
27.5°	4588.6	4484.2	4038.1	3506.6	3217.2	3203.0	3402.2	3891.0	3928.9	3943.2	4076.1
30°	4455.7	4299.1	3815.1	3407.0	3103.3	3098.6	3407.0	3815.1	3805.6	3843.5	3976.4
32.5°	4318.1	4023.9	3563.6	3283.6	2994.1	2989.5	3373.8	3701.2	3691.7	3743.9	3843.5
35°	4189.9	3810.3	3221.9	3141.3	2856.6	2861.3	3293.2	3568.3	3573.1	3620.5	3682.2
37.5°	4057.1	3625.3	2847.1	2984.7	2723.7	2723.7	3184.0	3445.0	3435.5	3449.7	3535.2
40°	3900.5	3335.8	2514.9	2780.7	2600.4	2586.1	3051.2	3312.1	3278.9	3274.2	3392.8
42.5°	3734.4	3017.9	2268.2	2510.2	2458.0	2439.0	2889.7	3150.8	3089.1	3103.3	3255.1
45°	3554.1	2932.5	2078.3	2121.0	2310.9	2296.7	2714.2	2965.7	2923.0	2961.0	3117.5
47.5°	3373.8	2761.7	2016.7	1760.4	2154.3	2149.5	2519.7	2785.4	2761.7	2799.6	2965.7
50°	3127.1	2571.8	2012.0	1509.0	1978.7	1997.7	2287.1	2609.8	2609.8	2643.1	2818.6
52.5°	2809.1	2339.4	1826.9	1366.6	1774.6	1831.6	2083.1	2458.0	2467.4	2500.7	2657.3
55°	2519.7	2097.4	1694.0	1257.5	1532.6	1656.0	1883.8	2301.3	2320.4	2353.6	2495.9
57.5°	2254.0	1746.2	1665.6	1129.3	1309.6	1428.3	1708.3	2149.5	2159.1	2187.5	2325.1
60°	1969.2	1262.2	1528.0	991.7	1115.1	1205.3	1546.9	1969.2	2002.4	2021.4	2140.0
62.5°	1646.6	915.8	1385.6	896.9	1020.2	1039.2	1414.0	1798.4	1841.1	1855.3	1926.5
65°	1172.0	768.7	1176.8	816.2	920.6	925.3	1271.7	1622.8	1660.8	1684.5	1736.7
67.5°	792.4	626.3	896.9	740.2	844.6	849.4	1134.1	1418.8	1470.9	1490.0	1523.2
70°	550.4	417.5	664.3	659.5	759.3	768.7	987.0	1233.7	1281.2	1295.4	1314.4
72.5°	403.3	336.9	550.4	593.2	669.1	678.6	835.2	1024.9	1072.4	1086.6	1096.1
75°	308.5	355.8	446.0	517.2	569.4	574.2	683.3	835.2	868.3	877.9	882.5
77.5°	246.8	332.2	327.4	417.5	465.0	455.6	536.2	645.3	673.8	673.8	673.8
80°	185.1	261.0	246.8	298.9	341.6	332.2	384.4	460.2	469.8	479.2	474.6
82.5°	137.6	166.1	166.1	189.8	227.8	218.3	256.2	298.9	298.9	298.9	308.5
85°	85.4	94.9	75.9	99.6	128.1	123.4	142.4	161.3	166.1	166.1	156.6
87.5°	52.2	42.7	23.7	37.9	56.9	56.9	66.5	71.1	66.5	66.5	66.5
90°	15.0	10.4	5.8	10.4	15.0	16.2	25.4	37.8	43.9	39.1	29.3
92.5°	101.7	62.3	23.1	62.3	101.7	111.5	156.8	217.1	247.3	216.8	155.6
95°	199.4	127.4	55.5	127.4	199.4	217.3	385.8	610.6	723.0	645.1	489.5
97.5°	222.8	159.4	95.9	159.4	222.8	238.7	519.8	894.5	1081.9	1032.8	934.3
100°	242.2	184.7	127.1	184.7	242.2	256.6	568.5	984.3	1192.3	1195.9	1203.1
102.5°	261.1	207.4	153.8	207.4	261.1	274.5	590.8	1012.7	1223.5	1286.2	1411.5
105°	289.7	244.2	198.8	244.2	289.7	301.1	607.4	1015.8	1220.1	1360.6	1641.5
107.5°	329.9	287.4	245.1	287.4	329.9	340.4	610.5	970.7	1150.7	1346.7	1738.7
110°	352.9	314.5	276.3	314.5	352.9	362.4	605.9	930.6	1093.0	1312.0	1750.2



TEST NUMBER: P934529

CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	379.8	343.3	306.9	343.3	379.8	388.9	606.1	895.5	1040.3	1264.6	1713.0
115°	420.4	386.8	353.1	386.8	420.4	428.8	611.7	855.4	977.3	1193.3	1625.4
117.5°	459.9	429.3	398.7	429.3	459.9	467.5	623.0	830.3	934.0	1128.9	1518.8
120°	482.9	454.2	425.4	454.2	482.9	490.1	632.2	821.9	916.7	1094.8	1451.0
122.5°	509.4	480.4	451.4	480.4	509.4	516.7	645.6	817.4	903.3	1063.7	1384.6
125°	544.2	517.7	491.3	517.7	544.2	550.8	663.5	813.8	888.9	1025.2	1297.7
127.5°	577.1	550.4	523.6	550.4	577.1	583.7	681.4	811.6	876.8	993.8	1227.7
130°	598.5	569.8	541.0	569.8	598.5	605.7	694.5	812.9	872.2	976.3	1184.6
132.5°	616.4	587.6	558.9	587.6	616.4	623.6	705.1	813.8	868.1	961.3	1147.8
135°	637.8	611.7	585.5	611.7	637.8	644.4	716.6	813.0	861.1	939.3	1095.5
137.5°	664.6	638.6	612.6	638.6	664.6	671.0	734.0	818.1	860.0	926.0	1058.1
140°	682.9	659.1	635.1	659.1	682.9	688.9	744.6	818.8	855.9	912.9	1027.1
142.5°	696.7	674.6	652.5	674.6	696.7	702.2	753.5	821.8	855.9	906.0	1006.2
145°	717.6	698.3	679.1	698.3	717.6	722.4	765.1	821.8	850.2	891.1	973.1
147.5°	743.2	724.4	705.7	724.4	743.2	747.9	782.0	827.5	850.2	882.5	947.0
150°	756.9	739.9	723.0	739.9	756.9	761.1	790.9	830.4	850.2	877.4	931.8
152.5°	766.6	753.7	740.9	753.7	766.6	769.8	796.6	832.4	850.2	873.5	919.9
155°	786.6	777.0	767.5	777.0	786.6	788.9	809.4	836.6	850.2	868.7	905.6
157.5°	805.6	796.5	787.2	796.5	805.6	808.0	822.1	840.9	850.2	864.6	893.3
160°	814.9	807.7	800.5	807.7	814.9	816.7	827.9	842.7	850.2	862.5	887.1
162.5°	824.6	819.2	813.8	819.2	824.6	825.9	834.0	844.8	850.2	860.6	881.3
165°	838.0	833.1	828.2	833.1	838.0	839.2	842.8	847.8	850.2	857.7	872.5
167.5°	846.1	843.8	841.5	843.8	846.1	846.7	849.7	853.9	855.9	860.8	870.6
170°	854.8	852.5	850.2	852.5	854.8	855.3	855.5	855.8	855.9	860.8	870.6
172.5°	855.8	855.3	854.8	855.3	855.8	855.9	855.9	855.9	855.9	859.7	867.5
175°	861.1	861.1	861.1	861.1	861.1	861.1	859.4	857.0	855.9	858.3	863.3
177.5°	861.1	861.1	861.1	861.1	861.1	861.1	859.8	858.1	857.1	859.1	862.9
180°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1



TEST NUMBER: P934529
 CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6	5015.6
2.5°	4840.0	4825.8	4844.8	4792.6	4844.8	4825.8	4840.0	4873.3	4844.8	4863.7	4882.7
5°	4246.9	4223.2	4147.2	4085.6	4147.2	4223.2	4246.9	4346.6	4394.0	4479.4	4593.2
7.5°	3796.1	3777.1	3758.2	3720.2	3758.2	3777.1	3796.1	3824.5	3872.0	3947.9	4033.3
10°	3696.5	3701.2	3729.7	3724.9	3729.7	3701.2	3696.5	3686.9	3672.7	3686.9	3739.2
12.5°	3952.7	3995.4	4152.0	4142.5	4152.0	3995.4	3952.7	3762.8	3634.8	3611.0	3620.5
15°	4246.9	4261.1	4294.3	4299.1	4294.3	4261.1	4246.9	4170.9	3786.6	3620.5	3568.3
17.5°	4275.3	4280.1	4303.9	4303.9	4303.9	4280.1	4275.3	4242.2	4114.0	3891.0	3596.8
20°	4251.6	4261.1	4308.6	4318.1	4308.6	4261.1	4251.6	4208.9	4137.8	4057.1	3834.1
22.5°	4242.2	4261.1	4299.1	4294.3	4299.1	4261.1	4242.2	4175.7	4114.0	4057.1	3966.9
25°	4194.7	4194.7	4199.4	4204.2	4199.4	4194.7	4194.7	4142.5	4019.1	4004.8	3952.7
27.5°	4095.0	4104.6	4133.0	4128.2	4133.0	4104.6	4095.0	4076.1	3943.2	3928.9	3891.0
30°	4004.8	3995.4	3971.7	3952.7	3971.7	3995.4	4004.8	3976.4	3843.5	3805.6	3815.1
32.5°	3853.0	3829.3	3805.6	3791.4	3805.6	3829.3	3853.0	3843.5	3743.9	3691.7	3701.2
35°	3672.7	3677.5	3672.7	3658.5	3672.7	3677.5	3672.7	3682.2	3620.5	3573.1	3568.3
37.5°	3544.6	3554.1	3549.4	3530.4	3549.4	3554.1	3544.6	3535.2	3449.7	3435.5	3445.0
40°	3411.8	3416.5	3411.8	3397.5	3411.8	3416.5	3411.8	3392.8	3274.2	3278.9	3312.1
42.5°	3283.6	3278.9	3264.6	3255.1	3264.6	3278.9	3283.6	3255.1	3103.3	3089.1	3150.8
45°	3136.5	3141.3	3112.8	3098.6	3112.8	3141.3	3136.5	3117.5	2961.0	2923.0	2965.7
47.5°	2989.5	2989.5	2965.7	2951.4	2965.7	2989.5	2989.5	2965.7	2799.6	2761.7	2785.4
50°	2832.8	2828.1	2794.9	2790.1	2794.9	2828.1	2832.8	2818.6	2643.1	2609.8	2609.8
52.5°	2652.5	2652.5	2657.3	2666.7	2657.3	2652.5	2652.5	2657.3	2500.7	2467.4	2458.0
55°	2495.9	2500.7	2533.9	2543.4	2533.9	2500.7	2495.9	2495.9	2353.6	2320.4	2301.3
57.5°	2334.6	2334.6	2358.4	2358.4	2358.4	2334.6	2334.6	2325.1	2187.5	2159.1	2149.5
60°	2149.5	2159.1	2178.1	2173.3	2178.1	2159.1	2149.5	2140.0	2021.4	2002.4	1969.2
62.5°	1955.0	1964.5	1969.2	1959.7	1969.2	1964.5	1955.0	1926.5	1855.3	1841.1	1798.4
65°	1751.0	1760.4	1765.2	1755.7	1765.2	1760.4	1751.0	1736.7	1684.5	1660.8	1622.8
67.5°	1542.2	1537.4	1532.6	1551.6	1532.6	1537.4	1542.2	1523.2	1490.0	1470.9	1418.8
70°	1328.6	1328.6	1323.9	1333.4	1323.9	1328.6	1328.6	1314.4	1295.4	1281.2	1233.7
72.5°	1100.9	1096.1	1115.1	1100.9	1115.1	1096.1	1100.9	1096.1	1086.6	1072.4	1024.9
75°	877.9	887.3	877.9	892.1	877.9	887.3	877.9	882.5	877.9	868.3	835.2
77.5°	669.1	678.6	669.1	669.1	669.1	678.6	669.1	673.8	673.8	673.8	645.3
80°	474.6	469.8	469.8	465.0	469.8	469.8	474.6	474.6	479.2	469.8	460.2
82.5°	303.7	298.9	298.9	308.5	298.9	298.9	303.7	308.5	298.9	298.9	298.9
85°	166.1	170.9	161.3	161.3	161.3	170.9	166.1	156.6	166.1	166.1	161.3
87.5°	61.7	56.9	56.9	56.9	56.9	56.9	61.7	66.5	66.5	66.5	71.1
90°	22.0	22.0	22.0	22.0	22.0	22.0	22.0	29.3	39.1	43.9	37.8
92.5°	109.8	105.4	88.0	70.5	88.0	105.4	109.8	155.6	216.8	247.3	217.1
95°	372.8	359.5	306.6	253.7	306.6	359.5	372.8	489.5	645.1	723.0	610.6
97.5°	860.6	835.4	734.7	634.0	734.7	835.4	860.6	934.3	1032.8	1081.9	894.5
100°	1208.5	1178.5	1058.6	938.6	1058.6	1178.5	1208.5	1203.1	1195.9	1192.3	984.3
102.5°	1505.5	1479.8	1377.1	1274.4	1377.1	1479.8	1505.5	1411.5	1286.2	1223.5	1012.7
105°	1852.3	1838.5	1783.3	1728.1	1783.3	1838.5	1852.3	1641.5	1360.6	1220.1	1015.8
107.5°	2032.7	2036.1	2049.3	2062.7	2049.3	2036.1	2032.7	1738.7	1346.7	1150.7	970.7
110°	2078.9	2093.3	2150.8	2208.3	2150.8	2093.3	2078.9	1750.2	1312.0	1093.0	930.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2049.4	2071.5	2159.9	2248.2	2159.9	2071.5	2049.4	1713.0	1264.6	1040.3	895.5
115°	1949.4	1980.1	2102.6	2225.2	2102.6	1980.1	1949.4	1625.4	1193.3	977.3	855.4
117.5°	1811.3	1845.2	1981.1	2117.0	1981.1	1845.2	1811.3	1518.8	1128.9	934.0	830.3
120°	1718.3	1751.3	1883.3	2015.3	1883.3	1751.3	1718.3	1451.0	1094.8	916.7	821.9
122.5°	1625.2	1657.7	1788.0	1918.2	1788.0	1657.7	1625.2	1384.6	1063.7	903.3	817.4
125°	1502.1	1532.1	1652.0	1772.0	1652.0	1532.1	1502.1	1297.7	1025.2	888.9	813.8
127.5°	1403.3	1428.6	1529.7	1631.0	1529.7	1428.6	1403.3	1227.7	993.8	876.8	811.6
130°	1340.8	1364.2	1457.8	1551.2	1457.8	1364.2	1340.8	1184.6	976.3	872.2	812.9
132.5°	1287.7	1308.6	1392.3	1476.1	1392.3	1308.6	1287.7	1147.8	961.3	868.1	813.8
135°	1212.6	1230.6	1302.8	1375.0	1302.8	1230.6	1212.6	1095.5	939.3	861.1	813.0
137.5°	1157.1	1171.8	1230.9	1290.0	1230.9	1171.8	1157.1	1058.1	926.0	860.0	818.1
140°	1112.6	1126.4	1181.6	1236.8	1181.6	1126.4	1112.6	1027.1	912.9	855.9	818.8
142.5°	1081.4	1093.2	1140.8	1188.3	1140.8	1093.2	1081.4	1006.2	906.0	855.9	821.8
145°	1034.5	1043.5	1079.5	1115.5	1079.5	1043.5	1034.5	973.1	891.1	850.2	821.8
147.5°	995.3	1002.8	1032.5	1062.3	1032.5	1002.8	995.3	947.0	882.5	850.2	827.5
150°	972.7	978.7	1002.8	1027.1	1002.8	978.7	972.7	931.8	877.4	850.2	830.4
152.5°	954.8	959.4	977.6	995.8	977.6	959.4	954.8	919.9	873.5	850.2	832.4
155°	933.4	936.4	948.5	960.6	948.5	936.4	933.4	905.6	868.7	850.2	836.6
157.5°	914.9	917.0	925.5	934.0	925.5	917.0	914.9	893.3	864.6	850.2	840.9
160°	905.6	906.9	911.8	916.7	911.8	906.9	905.6	887.1	862.5	850.2	842.7
162.5°	896.9	898.1	902.7	907.4	902.7	898.1	896.9	881.3	860.6	850.2	844.8
165°	883.7	884.9	889.8	894.7	889.8	884.9	883.7	872.5	857.7	850.2	847.8
167.5°	877.9	878.4	880.5	882.5	880.5	878.4	877.9	870.6	860.8	855.9	853.9
170°	877.9	877.9	877.9	877.9	877.9	877.9	877.9	870.6	860.8	855.9	855.8
172.5°	873.3	872.8	871.1	869.3	871.1	872.8	873.3	867.5	859.7	855.9	855.9
175°	866.9	866.9	866.9	866.9	866.9	866.9	866.9	863.3	858.3	855.9	857.0
177.5°	865.8	865.3	863.2	861.1	863.2	865.3	865.8	862.9	859.1	857.1	858.1
180°	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1	861.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	5015.6	5015.6	5015.6	5015.6	5015.6
2.5°	4953.9	4977.7	4991.9	5010.9	5058.3
5°	4764.1	4854.3	4882.7	4953.9	5039.3
7.5°	4346.6	4621.7	4697.6	4868.5	5001.3
10°	3943.2	4218.4	4351.2	4754.7	4953.9
12.5°	3739.2	3900.5	3990.6	4555.3	4887.5
15°	3611.0	3724.9	3791.4	4289.6	4811.6
17.5°	3511.4	3592.1	3639.6	4028.6	4707.2
20°	3449.7	3487.7	3530.4	3838.8	4588.6
22.5°	3407.0	3383.3	3416.5	3705.9	4427.2
25°	3378.5	3288.4	3326.3	3601.5	4237.4
27.5°	3402.2	3203.0	3217.2	3506.6	4038.1
30°	3407.0	3098.6	3103.3	3407.0	3815.1
32.5°	3373.8	2989.5	2994.1	3283.6	3563.6
35°	3293.2	2861.3	2856.6	3141.3	3221.9
37.5°	3184.0	2723.7	2723.7	2984.7	2847.1
40°	3051.2	2586.1	2600.4	2780.7	2514.9
42.5°	2889.7	2439.0	2458.0	2510.2	2268.2
45°	2714.2	2296.7	2310.9	2121.0	2078.3
47.5°	2519.7	2149.5	2154.3	1760.4	2016.7
50°	2287.1	1997.7	1978.7	1509.0	2012.0
52.5°	2083.1	1831.6	1774.6	1366.6	1826.9
55°	1883.8	1656.0	1532.6	1257.5	1694.0
57.5°	1708.3	1428.3	1309.6	1129.3	1665.6
60°	1546.9	1205.3	1115.1	991.7	1528.0
62.5°	1414.0	1039.2	1020.2	896.9	1385.6
65°	1271.7	925.3	920.6	816.2	1176.8
67.5°	1134.1	849.4	844.6	740.2	896.9
70°	987.0	768.7	759.3	659.5	664.3
72.5°	835.2	678.6	669.1	593.2	550.4
75°	683.3	574.2	569.4	517.2	446.0
77.5°	536.2	455.6	465.0	417.5	327.4
80°	384.4	332.2	341.6	298.9	246.8
82.5°	256.2	218.3	227.8	189.8	166.1
85°	142.4	123.4	128.1	99.6	75.9
87.5°	66.5	56.9	56.9	37.9	23.7
90°	25.4	16.2	15.0	10.4	5.8
92.5°	156.8	111.5	101.7	62.3	23.1
95°	385.8	217.3	199.4	127.4	55.5
97.5°	519.8	238.7	222.8	159.4	95.9
100°	568.5	256.6	242.2	184.7	127.1
102.5°	590.8	274.5	261.1	207.4	153.8
105°	607.4	301.1	289.7	244.2	198.8
107.5°	610.5	340.4	329.9	287.4	245.1
110°	605.9	362.4	352.9	314.5	276.3



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CATALOG NUMBER: SQ4-FA-050U-125D-92765-1D-UNV-STD-W-12-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	606.1	388.9	379.8	343.3	306.9
115°	611.7	428.8	420.4	386.8	353.1
117.5°	623.0	467.5	459.9	429.3	398.7
120°	632.2	490.1	482.9	454.2	425.4
122.5°	645.6	516.7	509.4	480.4	451.4
125°	663.5	550.8	544.2	517.7	491.3
127.5°	681.4	583.7	577.1	550.4	523.6
130°	694.5	605.7	598.5	569.8	541.0
132.5°	705.1	623.6	616.4	587.6	558.9
135°	716.6	644.4	637.8	611.7	585.5
137.5°	734.0	671.0	664.6	638.6	612.6
140°	744.6	688.9	682.9	659.1	635.1
142.5°	753.5	702.2	696.7	674.6	652.5
145°	765.1	722.4	717.6	698.3	679.1
147.5°	782.0	747.9	743.2	724.4	705.7
150°	790.9	761.1	756.9	739.9	723.0
152.5°	796.6	769.8	766.6	753.7	740.9
155°	809.4	788.9	786.6	777.0	767.5
157.5°	822.1	808.0	805.6	796.5	787.2
160°	827.9	816.7	814.9	807.7	800.5
162.5°	834.0	825.9	824.6	819.2	813.8
165°	842.8	839.2	838.0	833.1	828.2
167.5°	849.7	846.7	846.1	843.8	841.5
170°	855.5	855.3	854.8	852.5	850.2
172.5°	855.9	855.9	855.8	855.3	854.8
175°	859.4	861.1	861.1	861.1	861.1
177.5°	859.8	861.1	861.1	861.1	861.1
180°	861.1	861.1	861.1	861.1	861.1



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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	16.01	17.08	16.77	17.87	18.82	18.86	19.93	19.62	20.72	21.67
	3H	16.50	17.46	17.28	18.26	19.24	20.22	21.19	21.00	21.99	22.97
	4H	16.70	17.61	17.49	18.41	19.41	20.68	21.59	21.48	22.40	23.39
	6H	16.83	17.67	17.64	18.48	19.49	20.98	21.82	21.79	22.64	23.65
	8H	16.84	17.64	17.65	18.47	19.48	21.07	21.87	21.89	22.70	23.71
	12H	16.81	17.58	17.64	18.40	19.44	21.12	21.88	21.94	22.71	23.74
4H	2H	17.07	17.98	17.87	18.78	19.78	19.29	20.20	20.09	21.01	22.00
	3H	18.12	18.87	18.93	19.71	20.73	20.82	21.58	21.63	22.42	23.43
	4H	18.40	19.09	19.23	19.93	20.97	21.36	22.05	22.19	22.89	23.93
	6H	18.54	19.13	19.38	20.00	21.04	21.75	22.34	22.59	23.21	24.25
	8H	18.55	19.11	19.39	19.96	21.02	21.86	22.42	22.71	23.28	24.33
	12H	18.52	19.03	19.39	19.90	20.97	21.93	22.43	22.80	23.31	24.37
8H	4H	18.87	19.43	19.72	20.29	21.35	21.50	22.06	22.35	22.92	23.98
	6H	19.14	19.61	20.02	20.51	21.56	21.96	22.42	22.83	23.32	24.37
	8H	19.19	19.60	20.07	20.49	21.57	22.11	22.52	23.00	23.42	24.49
	12H	19.18	19.54	20.07	20.43	21.56	22.22	22.59	23.11	23.47	24.60
12H	4H	18.89	19.39	19.76	20.27	21.33	21.48	21.98	22.35	22.86	23.92
	6H	19.21	19.62	20.09	20.51	21.59	21.95	22.36	22.84	23.26	24.33
	8H	19.28	19.65	20.17	20.53	21.66	22.13	22.49	23.02	23.38	24.50