

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: P934478

Luminaire Tested: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934478
REPORT IS A COMBINATION OF REPORTS P933697 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

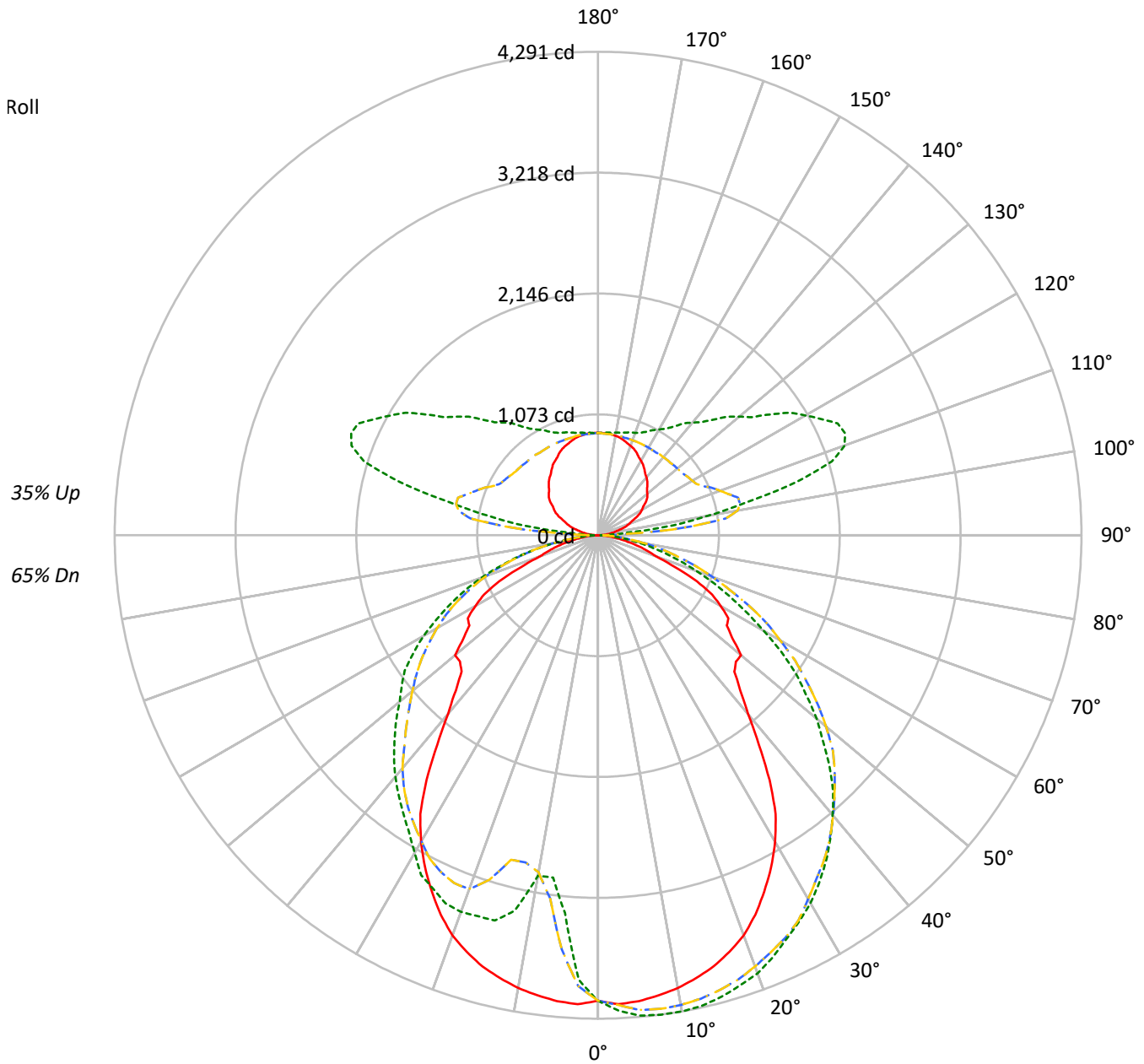
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16603.2 lumens
Efficiency: N/A
Efficacy: 122.4 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): 135.6
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: P934478
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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	0
RCR																					
0	111	111	111	111	104	104	104	104	91	91	91	80	80	80	69	69	69	65	65	65	65
1	101	97	93	89	95	91	88	84	80	78	75	71	69	67	62	60	59	55	55	55	55
2	92	85	78	73	86	80	74	69	70	66	63	62	59	56	54	52	50	46	46	46	46
3	84	74	67	61	79	70	63	58	62	57	53	55	51	47	48	45	42	39	39	39	39
4	77	66	58	52	72	62	55	49	55	49	45	49	44	41	43	39	36	33	33	33	33
5	71	59	50	44	66	56	48	42	49	43	39	44	39	35	39	35	32	29	29	29	29
6	65	53	44	38	61	50	42	37	45	38	34	40	35	31	35	31	28	25	25	25	25
7	60	48	39	34	56	45	38	32	40	34	30	36	31	27	32	28	25	22	22	22	22
8	56	43	35	30	52	41	34	29	37	31	27	33	28	24	29	25	22	20	20	20	20
9	52	40	32	27	49	38	31	26	34	28	24	30	25	22	27	23	20	18	18	18	18
10	49	36	29	24	46	35	28	23	31	25	21	28	23	20	25	21	18	16	16	16	16

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12777	12777	12777	12777
5°	12878	12898	12878	10142
10°	12796	12706	12796	9083
15°	12662	12430	12662	10379
20°	12402	12104	12402	10401
25°	11865	11628	11865	10180
30°	11169	11233	11169	9697
35°	9962	10734	9962	9165
40°	8306	10146	8306	8763
45°	7426	9458	7426	8301
50°	7896	8637	7896	7838
55°	7435	7753	7435	7569
60°	7674	6584	7674	6933
65°	6969	5443	6969	6084
70°	4837	4337	4837	5100
75°	4258	3206	4258	3840
80°	3456	2120	3456	2308
85°	2025	1123	2025	954

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11374 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	372.9	2.2
10°-20°	1058.7	6.4
20°-30°	1636.6	9.9
30°-40°	1953.8	11.8
40°-50°	1965.2	11.8
50°-60°	1710.0	10.3
60°-70°	1212.4	7.3
70°-80°	641.4	3.9
80°-90°	163.2	1.0
90°-100°	442.8	2.7
100°-110°	1164.2	7.0
110°-120°	1207.1	7.3
120°-130°	968.3	5.8
130°-140°	759.7	4.6
140°-150°	583.1	3.5
150°-160°	420.0	2.5
160°-170°	256.9	1.5
170°-180°	86.8	0.5
0°-30°	3068.3	18.5
0°-40°	5022.1	30.2
0°-60°	8697.3	52.4
0°-90°	10714.4	64.5
90°-120°	2814.0	16.9
90°-150°	5125.1	30.9
90°-180°	5889.0	35.5
0°-180°	16603.2	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4131	4131	4131	4131	4131	
5°	4151	4280	4151	3365	4151	394
15°	3963	4240	3963	3541	3963	1115
25°	3490	3955	3490	3463	3490	1602
35°	2654	3529	2654	3013	2654	1642
45°	1712	2908	1712	2552	1712	1371
55°	1395	2146	1395	2095	1395	1282
65°	969	1294	969	1446	969	926
75°	367	614	367	735	367	386
85°	62	156	62	133	62	84
90°	6	23	6	23	6	8
95°	59	268	59	268	59	65
105°	210	1823	210	1823	210	222
115°	372	2347	372	2347	372	368
125°	518	1869	518	1869	518	460
135°	618	1450	618	1450	618	478
145°	716	1177	716	1177	716	449
155°	810	1013	810	1013	810	372
165°	874	944	874	944	874	247
175°	908	914	908	914	908	86
180°	908	908	908	908	908	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9
2.5°	4166.1	4166.1	4189.6	4197.4	4197.4	4185.7	4173.9	4185.7	4220.9	4232.6	4228.7
5°	4150.6	4181.8	4224.8	4232.6	4240.4	4236.5	4228.7	4236.5	4275.6	4283.4	4287.3
7.5°	4119.2	4177.9	4232.6	4244.3	4256.1	4244.3	4240.4	4248.3	4287.3	4295.1	4295.1
10°	4080.2	4162.3	4224.8	4232.6	4244.3	4232.6	4232.6	4248.3	4287.3	4295.1	4299.1
12.5°	4025.4	4138.8	4197.4	4205.3	4220.9	4216.9	4213.1	4228.7	4267.8	4275.6	4275.6
15°	3962.9	4095.8	4150.6	4158.4	4185.7	4177.9	4177.9	4193.6	4236.5	4248.3	4244.3
17.5°	3877.0	4041.1	4103.6	4115.4	4134.9	4130.9	4134.9	4150.6	4189.6	4197.4	4201.3
20°	3779.2	3966.9	4041.1	4052.9	4072.4	4072.4	4072.4	4091.9	4130.9	4146.6	4146.6
22.5°	3646.3	3888.7	3966.9	3974.7	3998.1	3998.1	4005.9	4033.2	4068.4	4072.4	4072.4
25°	3490.0	3802.7	3869.2	3892.6	3916.0	3927.7	3939.5	3955.1	3966.9	3962.9	3966.9
27.5°	3325.9	3693.3	3779.2	3794.9	3826.2	3837.9	3853.5	3857.4	3861.3	3873.0	3865.2
30°	3142.2	3540.8	3669.8	3685.5	3736.2	3744.0	3728.5	3736.2	3755.8	3763.7	3771.4
32.5°	2935.0	3314.1	3556.5	3591.6	3638.5	3615.1	3611.2	3623.0	3654.2	3654.2	3662.0
35°	2653.7	3138.3	3451.0	3482.3	3517.4	3490.0	3505.6	3509.6	3529.1	3540.8	3537.0
37.5°	2344.9	2985.9	3341.6	3365.0	3392.3	3357.1	3380.6	3392.3	3408.0	3400.1	3400.1
40°	2071.4	2747.5	3212.6	3228.2	3251.6	3224.3	3247.7	3255.6	3263.4	3255.6	3251.6
42.5°	1868.2	2485.6	3075.7	3095.3	3079.7	3099.2	3107.0	3122.7	3110.9	3095.3	3095.3
45°	1711.8	2415.3	2927.2	2950.7	2927.2	2958.5	2970.2	2970.2	2935.0	2927.2	2923.4
47.5°	1661.0	2274.6	2778.7	2778.7	2767.0	2806.1	2825.7	2798.3	2763.1	2751.4	2751.4
50°	1657.1	2118.2	2575.5	2559.9	2614.6	2661.5	2642.0	2614.6	2587.3	2544.3	2544.3
52.5°	1504.6	1926.7	2313.6	2372.3	2458.3	2485.6	2454.4	2427.0	2380.1	2360.6	2344.9
55°	1395.2	1727.5	2075.2	2192.5	2282.4	2317.6	2258.9	2231.6	2161.2	2149.5	2141.7
57.5°	1371.8	1438.2	1856.4	2004.9	2114.4	2110.4	2075.2	2024.5	1965.8	1954.2	1950.2
60°	1258.4	1039.5	1621.9	1797.8	1911.2	1899.4	1868.2	1821.2	1766.5	1758.7	1750.8
62.5°	1141.2	754.3	1356.1	1555.5	1715.7	1711.8	1684.5	1614.1	1575.0	1555.5	1539.8
65°	969.2	633.1	965.3	1293.6	1524.2	1532.0	1473.4	1422.6	1379.6	1356.1	1352.2
67.5°	738.6	515.9	652.6	1078.7	1340.6	1332.7	1258.4	1235.0	1180.2	1168.5	1145.1
70°	547.1	343.9	453.4	875.5	1160.7	1141.2	1082.5	1055.2	1004.4	977.0	961.4
72.5°	453.4	277.5	332.2	680.0	977.0	953.6	902.8	871.5	828.5	805.1	789.5
75°	367.4	293.1	254.0	504.1	793.3	777.8	730.8	699.6	664.4	633.1	637.1
77.5°	269.7	273.6	203.2	371.3	629.3	605.8	578.4	539.3	523.7	492.4	492.4
80°	203.2	214.9	152.4	254.0	453.4	453.4	429.9	402.6	375.2	359.6	359.6
82.5°	136.8	136.8	113.3	160.2	308.7	297.0	281.4	273.6	257.9	250.1	250.1
85°	62.5	78.2	70.3	97.7	168.0	175.9	175.9	168.0	164.2	156.3	160.2
87.5°	19.5	35.2	43.0	54.7	86.0	89.9	93.8	93.8	93.8	97.7	97.7
90°	6.1	10.9	15.9	17.1	26.8	39.8	46.3	41.2	30.9	23.2	23.2
92.5°	24.4	65.8	107.3	117.6	165.4	229.0	260.9	228.7	164.2	115.9	111.2
95°	58.6	134.4	210.3	229.2	407.0	644.2	762.7	680.5	516.4	393.2	379.2
97.5°	101.2	168.1	235.1	251.8	548.3	943.6	1141.3	1089.4	985.6	907.8	881.3
100°	134.1	194.8	255.5	270.7	599.7	1038.4	1257.7	1261.5	1269.1	1274.8	1243.1
102.5°	162.2	218.8	275.4	289.6	623.3	1068.2	1290.7	1356.7	1489.0	1588.2	1561.0
105°	209.7	257.6	305.6	317.6	640.7	1071.6	1287.0	1435.2	1731.6	1954.0	1939.4
107.5°	258.5	303.2	348.0	359.1	644.1	1024.0	1213.9	1420.6	1834.2	2144.3	2147.8
110°	291.5	331.8	372.2	382.3	639.1	981.7	1152.9	1384.0	1846.3	2193.0	2208.1



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	323.7	362.2	400.6	410.3	639.3	944.7	1097.4	1334.0	1807.0	2161.9	2185.2
115°	372.5	408.0	443.5	452.4	645.2	902.4	1031.0	1258.8	1714.6	2056.4	2088.7
117.5°	420.6	452.9	485.1	493.2	657.2	875.9	985.2	1190.9	1602.2	1910.7	1946.5
120°	448.7	479.1	509.4	517.0	666.9	867.0	967.0	1154.9	1530.7	1812.6	1847.4
122.5°	476.1	506.8	537.4	545.1	681.0	862.3	952.9	1122.1	1460.6	1714.4	1748.7
125°	518.2	546.1	574.0	581.0	700.0	858.4	937.7	1081.4	1368.9	1584.5	1616.2
127.5°	552.4	580.6	608.8	615.8	718.8	856.1	924.9	1048.3	1295.1	1480.3	1507.0
130°	570.7	601.1	631.3	638.9	732.6	857.5	920.0	1029.9	1249.7	1414.4	1439.1
132.5°	589.5	619.9	650.3	657.9	743.8	858.4	915.7	1014.1	1210.8	1358.3	1380.4
135°	617.6	645.2	672.8	679.7	756.0	857.6	908.4	990.8	1155.6	1279.1	1298.2
137.5°	646.2	673.6	701.0	707.8	774.3	862.9	907.2	976.8	1116.2	1220.6	1236.1
140°	670.0	695.2	720.4	726.7	785.4	863.7	902.9	963.0	1083.4	1173.6	1188.2
142.5°	688.3	711.6	735.0	740.8	794.8	866.9	902.9	955.7	1061.4	1140.7	1153.2
145°	716.3	736.6	757.0	762.1	807.0	866.9	896.9	940.1	1026.5	1091.3	1100.8
147.5°	744.4	764.2	784.0	788.9	824.9	872.9	896.9	930.9	998.9	1049.9	1057.8
150°	762.7	780.5	798.5	802.9	834.3	876.0	896.9	925.6	982.9	1026.0	1032.4
152.5°	781.6	795.1	808.7	812.1	840.4	878.0	896.9	921.4	970.4	1007.2	1012.0
155°	809.6	819.7	829.7	832.2	853.8	882.5	896.9	916.4	955.3	984.6	987.8
157.5°	830.4	840.2	849.8	852.3	867.2	887.0	896.9	912.0	942.3	965.1	967.4
160°	844.4	852.0	859.6	861.5	873.3	889.0	896.9	909.9	935.8	955.3	956.6
162.5°	858.4	864.1	869.8	871.2	879.8	891.1	896.9	907.8	929.7	946.2	947.3
165°	873.7	878.8	883.9	885.2	889.1	894.3	896.9	904.8	920.4	932.2	933.4
167.5°	887.7	890.1	892.5	893.1	896.4	900.7	902.9	908.0	918.4	926.1	926.6
170°	896.9	899.2	901.7	902.3	902.5	902.8	902.9	908.0	918.4	926.1	926.1
172.5°	901.7	902.2	902.8	902.9	902.9	902.9	902.9	906.9	915.1	921.2	920.7
175°	908.4	908.4	908.4	908.4	906.5	904.1	902.9	905.4	910.7	914.5	914.5
177.5°	908.4	908.4	908.4	908.4	907.0	905.1	904.2	906.2	910.3	913.3	912.7
180°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9
2.5°	4236.5	4224.8	4236.5	4228.7	4232.6	4220.9	4185.7	4173.9	4185.7	4197.4	4197.4
5°	4287.3	4279.5	4287.3	4287.3	4283.4	4275.6	4236.5	4228.7	4236.5	4240.4	4232.6
7.5°	4302.9	4291.3	4302.9	4295.1	4295.1	4287.3	4248.3	4240.4	4244.3	4256.1	4244.3
10°	4302.9	4291.3	4302.9	4299.1	4295.1	4287.3	4248.3	4232.6	4232.6	4244.3	4232.6
12.5°	4283.4	4275.6	4283.4	4275.6	4275.6	4267.8	4228.7	4213.1	4216.9	4220.9	4205.3
15°	4252.1	4240.4	4252.1	4244.3	4248.3	4236.5	4193.6	4177.9	4177.9	4185.7	4158.4
17.5°	4205.3	4189.6	4205.3	4201.3	4197.4	4189.6	4150.6	4134.9	4130.9	4134.9	4115.4
20°	4150.6	4138.8	4150.6	4146.6	4146.6	4130.9	4091.9	4072.4	4072.4	4072.4	4052.9
22.5°	4064.6	4052.9	4064.6	4072.4	4072.4	4068.4	4033.2	4005.9	3998.1	3998.1	3974.7
25°	3966.9	3955.1	3966.9	3966.9	3962.9	3966.9	3955.1	3939.5	3927.7	3916.0	3892.6
27.5°	3873.0	3865.2	3873.0	3865.2	3873.0	3861.3	3857.4	3853.5	3837.9	3826.2	3794.9
30°	3779.2	3771.4	3779.2	3771.4	3763.7	3755.8	3736.2	3728.5	3744.0	3736.2	3685.5
32.5°	3662.0	3654.2	3662.0	3662.0	3654.2	3654.2	3623.0	3611.2	3615.1	3638.5	3591.6
35°	3540.8	3529.1	3540.8	3537.0	3540.8	3529.1	3509.6	3505.6	3490.0	3517.4	3482.3
37.5°	3400.1	3388.4	3400.1	3400.1	3400.1	3408.0	3392.3	3380.6	3357.1	3392.3	3365.0
40°	3255.6	3239.9	3255.6	3251.6	3255.6	3263.4	3255.6	3247.7	3224.3	3251.6	3228.2
42.5°	3091.4	3087.5	3091.4	3095.3	3095.3	3110.9	3122.7	3107.0	3099.2	3079.7	3095.3
45°	2915.5	2907.7	2915.5	2923.4	2927.2	2935.0	2970.2	2970.2	2958.5	2927.2	2950.7
47.5°	2728.0	2708.4	2728.0	2751.4	2751.4	2763.1	2798.3	2825.7	2806.1	2767.0	2778.7
50°	2528.6	2532.5	2528.6	2544.3	2544.3	2587.3	2614.6	2642.0	2661.5	2614.6	2559.9
52.5°	2333.2	2329.3	2333.2	2344.9	2360.6	2380.1	2427.0	2454.4	2485.6	2458.3	2372.3
55°	2137.7	2145.6	2137.7	2141.7	2149.5	2161.2	2231.6	2258.9	2317.6	2282.4	2192.5
57.5°	1942.4	1930.7	1942.4	1950.2	1954.2	1965.8	2024.5	2075.2	2110.4	2114.4	2004.9
60°	1715.7	1700.1	1715.7	1750.8	1758.7	1766.5	1821.2	1868.2	1899.4	1911.2	1797.8
62.5°	1516.4	1489.1	1516.4	1539.8	1555.5	1575.0	1614.1	1684.5	1711.8	1715.7	1555.5
65°	1305.4	1293.6	1305.4	1352.2	1356.1	1379.6	1422.6	1473.4	1532.0	1524.2	1293.6
67.5°	1113.9	1113.9	1113.9	1145.1	1168.5	1180.2	1235.0	1258.4	1332.7	1340.6	1078.7
70°	938.0	934.0	938.0	961.4	977.0	1004.4	1055.2	1082.5	1141.2	1160.7	875.5
72.5°	770.0	766.0	770.0	789.5	805.1	828.5	871.5	902.8	953.6	977.0	680.0
75°	621.4	613.6	621.4	637.1	633.1	664.4	699.6	730.8	777.8	793.3	504.1
77.5°	476.8	476.8	476.8	492.4	492.4	523.7	539.3	578.4	605.8	629.3	371.3
80°	355.7	351.7	355.7	359.6	359.6	375.2	402.6	429.9	453.4	453.4	254.0
82.5°	250.1	242.3	250.1	250.1	250.1	257.9	273.6	281.4	297.0	308.7	160.2
85°	156.3	156.3	156.3	160.2	156.3	164.2	168.0	175.9	175.9	168.0	97.7
87.5°	101.7	97.7	101.7	97.7	97.7	93.8	93.8	93.8	89.9	86.0	54.7
90°	23.2	23.2	23.2	23.2	23.2	30.9	41.2	46.3	39.8	26.8	17.1
92.5°	92.8	74.3	92.8	111.2	115.9	164.2	228.7	260.9	229.0	165.4	117.6
95°	323.4	267.6	323.4	379.2	393.2	516.4	680.5	762.7	644.2	407.0	229.2
97.5°	775.0	668.8	775.0	881.3	907.8	985.6	1089.4	1141.3	943.6	548.3	251.8
100°	1116.6	990.1	1116.6	1243.1	1274.8	1269.1	1261.5	1257.7	1038.4	599.7	270.7
102.5°	1452.7	1344.3	1452.7	1561.0	1588.2	1489.0	1356.7	1290.7	1068.2	623.3	289.6
105°	1881.2	1822.9	1881.2	1939.4	1954.0	1731.6	1435.2	1287.0	1071.6	640.7	317.6
107.5°	2161.8	2175.9	2161.8	2147.8	2144.3	1834.2	1420.6	1213.9	1024.0	644.1	359.1
110°	2268.8	2329.5	2268.8	2208.1	2193.0	1846.3	1384.0	1152.9	981.7	639.1	382.3



TEST NUMBER: P934478

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2278.4	2371.6	2278.4	2185.2	2161.9	1807.0	1334.0	1097.4	944.7	639.3	410.3
115°	2218.0	2347.3	2218.0	2088.7	2056.4	1714.6	1258.8	1031.0	902.4	645.2	452.4
117.5°	2089.8	2233.2	2089.8	1946.5	1910.7	1602.2	1190.9	985.2	875.9	657.2	493.2
120°	1986.7	2125.9	1986.7	1847.4	1812.6	1530.7	1154.9	967.0	867.0	666.9	517.0
122.5°	1886.1	2023.5	1886.1	1748.7	1714.4	1460.6	1122.1	952.9	862.3	681.0	545.1
125°	1742.7	1869.3	1742.7	1616.2	1584.5	1368.9	1081.4	937.7	858.4	700.0	581.0
127.5°	1613.7	1720.5	1613.7	1507.0	1480.3	1295.1	1048.3	924.9	856.1	718.8	615.8
130°	1537.8	1636.4	1537.8	1439.1	1414.4	1249.7	1029.9	920.0	857.5	732.6	638.9
132.5°	1468.7	1557.1	1468.7	1380.4	1358.3	1210.8	1014.1	915.7	858.4	743.8	657.9
135°	1374.3	1450.4	1374.3	1298.2	1279.1	1155.6	990.8	908.4	857.6	756.0	679.7
137.5°	1298.5	1360.8	1298.5	1236.1	1220.6	1116.2	976.8	907.2	862.9	774.3	707.8
140°	1246.4	1304.7	1246.4	1188.2	1173.6	1083.4	963.0	902.9	863.7	785.4	726.7
142.5°	1203.4	1253.5	1203.4	1153.2	1140.7	1061.4	955.7	902.9	866.9	794.8	740.8
145°	1138.7	1176.7	1138.7	1100.8	1091.3	1026.5	940.1	896.9	866.9	807.0	762.1
147.5°	1089.1	1120.6	1089.1	1057.8	1049.9	998.9	930.9	896.9	872.9	824.9	788.9
150°	1057.9	1083.4	1057.9	1032.4	1026.0	982.9	925.6	896.9	876.0	834.3	802.9
152.5°	1031.3	1050.5	1031.3	1012.0	1007.2	970.4	921.4	896.9	878.0	840.4	812.1
155°	1000.6	1013.3	1000.6	987.8	984.6	955.3	916.4	896.9	882.5	853.8	832.2
157.5°	976.2	985.2	976.2	967.4	965.1	942.3	912.0	896.9	887.0	867.2	852.3
160°	961.8	967.0	961.8	956.6	955.3	935.8	909.9	896.9	889.0	873.3	861.5
162.5°	952.3	957.2	952.3	947.3	946.2	929.7	907.8	896.9	891.1	879.8	871.2
165°	938.7	943.8	938.7	933.4	932.2	920.4	904.8	896.9	894.3	889.1	885.2
167.5°	928.8	931.0	928.8	926.6	926.1	918.4	908.0	902.9	900.7	896.4	893.1
170°	926.1	926.1	926.1	926.1	926.1	918.4	908.0	902.9	902.8	902.5	902.3
172.5°	918.9	917.0	918.9	920.7	921.2	915.1	906.9	902.9	902.9	902.9	902.9
175°	914.5	914.5	914.5	914.5	914.5	910.7	905.4	902.9	904.1	906.5	908.4
177.5°	910.6	908.4	910.6	912.7	913.3	910.3	906.2	904.2	905.1	907.0	908.4
180°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4



TEST NUMBER: P934478

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9
2.5°	4189.6	4166.1	4166.1	4127.1	4111.4	4099.7	4080.2	4021.6	4005.9	3990.2	4013.7
5°	4224.8	4181.8	4150.6	4080.2	4021.6	3998.1	3923.9	3783.2	3689.3	3619.0	3580.0
7.5°	4232.6	4177.9	4119.2	4009.9	3869.2	3806.7	3580.0	3322.0	3251.6	3189.1	3150.0
10°	4224.8	4162.3	4080.2	3916.0	3583.8	3474.4	3247.7	3079.7	3036.7	3024.9	3036.7
12.5°	4197.4	4138.8	4025.4	3751.9	3286.8	3212.6	3079.7	2982.0	2974.2	2993.7	3099.2
15°	4150.6	4095.8	3962.9	3533.0	3122.7	3067.9	2974.2	2939.0	2982.0	3118.7	3435.3
17.5°	4103.6	4041.1	3877.0	3318.1	2997.6	2958.5	2892.0	2962.4	3204.7	3388.4	3494.0
20°	4041.1	3966.9	3779.2	3161.7	2907.7	2872.5	2841.3	3157.9	3341.6	3408.0	3466.6
22.5°	3966.9	3888.7	3646.3	3052.4	2813.9	2786.5	2806.1	3267.3	3341.6	3388.4	3439.3
25°	3869.2	3802.7	3490.0	2966.4	2739.7	2708.4	2782.7	3255.6	3298.6	3310.3	3411.9
27.5°	3779.2	3693.3	3325.9	2888.2	2649.8	2638.0	2802.2	3204.7	3236.1	3247.7	3357.1
30°	3669.8	3540.8	3142.2	2806.1	2556.0	2552.1	2806.1	3142.2	3134.4	3165.7	3275.1
32.5°	3556.5	3314.1	2935.0	2704.5	2466.1	2462.1	2778.7	3048.4	3040.6	3083.6	3165.7
35°	3451.0	3138.3	2653.7	2587.3	2352.8	2356.6	2712.3	2939.0	2942.9	2982.0	3032.7
37.5°	3341.6	2985.9	2344.9	2458.3	2243.3	2243.3	2622.4	2837.4	2829.5	2841.3	2911.7
40°	3212.6	2747.5	2071.4	2290.2	2141.7	2130.0	2513.0	2728.0	2700.6	2696.7	2794.4
42.5°	3075.7	2485.6	1868.2	2067.4	2024.5	2008.8	2380.1	2595.1	2544.3	2556.0	2681.0
45°	2927.2	2415.3	1711.8	1747.0	1903.3	1891.5	2235.5	2442.6	2407.4	2438.8	2567.7
47.5°	2778.7	2274.6	1661.0	1449.9	1774.3	1770.5	2075.2	2294.1	2274.6	2305.9	2442.6
50°	2575.5	2118.2	1657.1	1242.9	1629.8	1645.3	1883.8	2149.5	2149.5	2176.9	2321.4
52.5°	2313.6	1926.7	1504.6	1125.5	1461.6	1508.6	1715.7	2024.5	2032.2	2059.7	2188.6
55°	2075.2	1727.5	1395.2	1035.7	1262.4	1363.9	1551.6	1895.5	1911.2	1938.5	2055.7
57.5°	1856.4	1438.2	1371.8	930.2	1078.7	1176.4	1406.9	1770.5	1778.3	1801.7	1915.0
60°	1621.9	1039.5	1258.4	816.8	918.5	992.7	1274.1	1621.9	1649.3	1664.9	1762.6
62.5°	1356.1	754.3	1141.2	738.6	840.3	855.9	1164.7	1481.2	1516.4	1528.1	1586.8
65°	965.3	633.1	969.2	672.3	758.2	762.1	1047.4	1336.6	1367.9	1387.4	1430.4
67.5°	652.6	515.9	738.6	609.6	695.6	699.6	934.0	1168.5	1211.5	1227.2	1254.6
70°	453.4	343.9	547.1	543.3	625.3	633.1	813.0	1016.2	1055.2	1067.0	1082.5
72.5°	332.2	277.5	453.4	488.6	551.1	558.9	687.8	844.2	883.3	895.0	902.8
75°	254.0	293.1	367.4	426.0	468.9	472.9	562.8	687.8	715.2	723.0	726.9
77.5°	203.2	273.6	269.7	343.9	383.0	375.2	441.6	531.6	554.9	554.9	554.9
80°	152.4	214.9	203.2	246.2	281.4	273.6	316.6	379.1	386.9	394.7	390.9
82.5°	113.3	136.8	136.8	156.3	187.6	179.7	211.0	246.2	246.2	246.2	254.0
85°	70.3	78.2	62.5	82.0	105.5	101.7	117.2	132.9	136.8	136.8	129.0
87.5°	43.0	35.2	19.5	31.3	46.9	46.9	54.7	58.7	54.7	54.7	54.7
90°	15.9	10.9	6.1	10.9	15.9	17.1	26.8	39.8	46.3	41.2	30.9
92.5°	107.3	65.8	24.4	65.8	107.3	117.6	165.4	229.0	260.9	228.7	164.2
95°	210.3	134.4	58.6	134.4	210.3	229.2	407.0	644.2	762.7	680.5	516.4
97.5°	235.1	168.1	101.2	168.1	235.1	251.8	548.3	943.6	1141.3	1089.4	985.6
100°	255.5	194.8	134.1	194.8	255.5	270.7	599.7	1038.4	1257.7	1261.5	1269.1
102.5°	275.4	218.8	162.2	218.8	275.4	289.6	623.3	1068.2	1290.7	1356.7	1489.0
105°	305.6	257.6	209.7	257.6	305.6	317.6	640.7	1071.6	1287.0	1435.2	1731.6
107.5°	348.0	303.2	258.5	303.2	348.0	359.1	644.1	1024.0	1213.9	1420.6	1834.2
110°	372.2	331.8	291.5	331.8	372.2	382.3	639.1	981.7	1152.9	1384.0	1846.3



TEST NUMBER: P934478

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	400.6	362.2	323.7	362.2	400.6	410.3	639.3	944.7	1097.4	1334.0	1807.0
115°	443.5	408.0	372.5	408.0	443.5	452.4	645.2	902.4	1031.0	1258.8	1714.6
117.5°	485.1	452.9	420.6	452.9	485.1	493.2	657.2	875.9	985.2	1190.9	1602.2
120°	509.4	479.1	448.7	479.1	509.4	517.0	666.9	867.0	967.0	1154.9	1530.7
122.5°	537.4	506.8	476.1	506.8	537.4	545.1	681.0	862.3	952.9	1122.1	1460.6
125°	574.0	546.1	518.2	546.1	574.0	581.0	700.0	858.4	937.7	1081.4	1368.9
127.5°	608.8	580.6	552.4	580.6	608.8	615.8	718.8	856.1	924.9	1048.3	1295.1
130°	631.3	601.1	570.7	601.1	631.3	638.9	732.6	857.5	920.0	1029.9	1249.7
132.5°	650.3	619.9	589.5	619.9	650.3	657.9	743.8	858.4	915.7	1014.1	1210.8
135°	672.8	645.2	617.6	645.2	672.8	679.7	756.0	857.6	908.4	990.8	1155.6
137.5°	701.0	673.6	646.2	673.6	701.0	707.8	774.3	862.9	907.2	976.8	1116.2
140°	720.4	695.2	670.0	695.2	720.4	726.7	785.4	863.7	902.9	963.0	1083.4
142.5°	735.0	711.6	688.3	711.6	735.0	740.8	794.8	866.9	902.9	955.7	1061.4
145°	757.0	736.6	716.3	736.6	757.0	762.1	807.0	866.9	896.9	940.1	1026.5
147.5°	784.0	764.2	744.4	764.2	784.0	788.9	824.9	872.9	896.9	930.9	998.9
150°	798.5	780.5	762.7	780.5	798.5	802.9	834.3	876.0	896.9	925.6	982.9
152.5°	808.7	795.1	781.6	795.1	808.7	812.1	840.4	878.0	896.9	921.4	970.4
155°	829.7	819.7	809.6	819.7	829.7	832.2	853.8	882.5	896.9	916.4	955.3
157.5°	849.8	840.2	830.4	840.2	849.8	852.3	867.2	887.0	896.9	912.0	942.3
160°	859.6	852.0	844.4	852.0	859.6	861.5	873.3	889.0	896.9	909.9	935.8
162.5°	869.8	864.1	858.4	864.1	869.8	871.2	879.8	891.1	896.9	907.8	929.7
165°	883.9	878.8	873.7	878.8	883.9	885.2	889.1	894.3	896.9	904.8	920.4
167.5°	892.5	890.1	887.7	890.1	892.5	893.1	896.4	900.7	902.9	908.0	918.4
170°	901.7	899.2	896.9	899.2	901.7	902.3	902.5	902.8	902.9	908.0	918.4
172.5°	902.8	902.2	901.7	902.2	902.8	902.9	902.9	902.9	902.9	906.9	915.1
175°	908.4	908.4	908.4	908.4	908.4	908.4	906.5	904.1	902.9	905.4	910.7
177.5°	908.4	908.4	908.4	908.4	908.4	908.4	907.0	905.1	904.2	906.2	910.3
180°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4



TEST NUMBER: P934478
 CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9	4130.9
2.5°	3986.4	3974.7	3990.2	3947.3	3990.2	3974.7	3986.4	4013.7	3990.2	4005.9	4021.6
5°	3497.8	3478.3	3415.8	3365.0	3415.8	3478.3	3497.8	3580.0	3619.0	3689.3	3783.2
7.5°	3126.6	3110.9	3095.3	3064.0	3095.3	3110.9	3126.6	3150.0	3189.1	3251.6	3322.0
10°	3044.5	3048.4	3071.9	3067.9	3071.9	3048.4	3044.5	3036.7	3024.9	3036.7	3079.7
12.5°	3255.6	3290.7	3419.6	3411.9	3419.6	3290.7	3255.6	3099.2	2993.7	2974.2	2982.0
15°	3497.8	3509.6	3537.0	3540.8	3537.0	3509.6	3497.8	3435.3	3118.7	2982.0	2939.0
17.5°	3521.3	3525.2	3544.8	3544.8	3544.8	3525.2	3521.3	3494.0	3388.4	3204.7	2962.4
20°	3501.8	3509.6	3548.6	3556.5	3548.6	3509.6	3501.8	3466.6	3408.0	3341.6	3157.9
22.5°	3494.0	3509.6	3540.8	3537.0	3540.8	3509.6	3494.0	3439.3	3388.4	3341.6	3267.3
25°	3454.8	3454.8	3458.8	3462.6	3458.8	3454.8	3454.8	3411.9	3310.3	3298.6	3255.6
27.5°	3372.8	3380.6	3404.1	3400.1	3404.1	3380.6	3372.8	3357.1	3247.7	3236.1	3204.7
30°	3298.6	3290.7	3271.2	3255.6	3271.2	3290.7	3298.6	3275.1	3165.7	3134.4	3142.2
32.5°	3173.4	3153.9	3134.4	3122.7	3134.4	3153.9	3173.4	3165.7	3083.6	3040.6	3048.4
35°	3024.9	3028.9	3024.9	3013.2	3024.9	3028.9	3024.9	3032.7	2982.0	2942.9	2939.0
37.5°	2919.4	2927.2	2923.4	2907.7	2923.4	2927.2	2919.4	2911.7	2841.3	2829.5	2837.4
40°	2810.0	2813.9	2810.0	2798.3	2810.0	2813.9	2810.0	2794.4	2696.7	2700.6	2728.0
42.5°	2704.5	2700.6	2688.8	2681.0	2688.8	2700.6	2704.5	2681.0	2556.0	2544.3	2595.1
45°	2583.3	2587.3	2563.8	2552.1	2563.8	2587.3	2583.3	2567.7	2438.8	2407.4	2442.6
47.5°	2462.1	2462.1	2442.6	2430.9	2442.6	2462.1	2462.1	2442.6	2305.9	2274.6	2294.1
50°	2333.2	2329.3	2301.9	2298.1	2301.9	2329.3	2333.2	2321.4	2176.9	2149.5	2149.5
52.5°	2184.7	2184.7	2188.6	2196.4	2188.6	2184.7	2184.7	2188.6	2059.7	2032.2	2024.5
55°	2055.7	2059.7	2087.0	2094.8	2087.0	2059.7	2055.7	2055.7	1938.5	1911.2	1895.5
57.5°	1922.8	1922.8	1942.4	1942.4	1942.4	1922.8	1922.8	1915.0	1801.7	1778.3	1770.5
60°	1770.5	1778.3	1793.8	1790.0	1793.8	1778.3	1770.5	1762.6	1664.9	1649.3	1621.9
62.5°	1610.1	1618.0	1621.9	1614.1	1621.9	1618.0	1610.1	1586.8	1528.1	1516.4	1481.2
65°	1442.1	1449.9	1453.9	1446.1	1453.9	1449.9	1442.1	1430.4	1387.4	1367.9	1336.6
67.5°	1270.2	1266.2	1262.4	1278.0	1262.4	1266.2	1270.2	1254.6	1227.2	1211.5	1168.5
70°	1094.3	1094.3	1090.4	1098.2	1090.4	1094.3	1094.3	1082.5	1067.0	1055.2	1016.2
72.5°	906.7	902.8	918.5	906.7	918.5	902.8	906.7	902.8	895.0	883.3	844.2
75°	723.0	730.8	723.0	734.8	723.0	730.8	723.0	726.9	723.0	715.2	687.8
77.5°	551.1	558.9	551.1	551.1	551.1	558.9	551.1	554.9	554.9	554.9	531.6
80°	390.9	386.9	386.9	383.0	386.9	386.9	390.9	390.9	394.7	386.9	379.1
82.5°	250.1	246.2	246.2	254.0	246.2	246.2	250.1	254.0	246.2	246.2	246.2
85°	136.8	140.7	132.9	132.9	132.9	140.7	136.8	129.0	136.8	136.8	132.9
87.5°	50.8	46.9	46.9	46.9	46.9	46.9	50.8	54.7	54.7	54.7	58.7
90°	23.2	23.2	23.2	23.2	23.2	23.2	23.2	30.9	41.2	46.3	39.8
92.5°	115.9	111.2	92.8	74.3	92.8	111.2	115.9	164.2	228.7	260.9	229.0
95°	393.2	379.2	323.4	267.6	323.4	379.2	393.2	516.4	680.5	762.7	644.2
97.5°	907.8	881.3	775.0	668.8	775.0	881.3	907.8	985.6	1089.4	1141.3	943.6
100°	1274.8	1243.1	1116.6	990.1	1116.6	1243.1	1274.8	1269.1	1261.5	1257.7	1038.4
102.5°	1588.2	1561.0	1452.7	1344.3	1452.7	1561.0	1588.2	1489.0	1356.7	1290.7	1068.2
105°	1954.0	1939.4	1881.2	1822.9	1881.2	1939.4	1954.0	1731.6	1435.2	1287.0	1071.6
107.5°	2144.3	2147.8	2161.8	2175.9	2161.8	2147.8	2144.3	1834.2	1420.6	1213.9	1024.0
110°	2193.0	2208.1	2268.8	2329.5	2268.8	2208.1	2193.0	1846.3	1384.0	1152.9	981.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2161.9	2185.2	2278.4	2371.6	2278.4	2185.2	2161.9	1807.0	1334.0	1097.4	944.7
115°	2056.4	2088.7	2218.0	2347.3	2218.0	2088.7	2056.4	1714.6	1258.8	1031.0	902.4
117.5°	1910.7	1946.5	2089.8	2233.2	2089.8	1946.5	1910.7	1602.2	1190.9	985.2	875.9
120°	1812.6	1847.4	1986.7	2125.9	1986.7	1847.4	1812.6	1530.7	1154.9	967.0	867.0
122.5°	1714.4	1748.7	1886.1	2023.5	1886.1	1748.7	1714.4	1460.6	1122.1	952.9	862.3
125°	1584.5	1616.2	1742.7	1869.3	1742.7	1616.2	1584.5	1368.9	1081.4	937.7	858.4
127.5°	1480.3	1507.0	1613.7	1720.5	1613.7	1507.0	1480.3	1295.1	1048.3	924.9	856.1
130°	1414.4	1439.1	1537.8	1636.4	1537.8	1439.1	1414.4	1249.7	1029.9	920.0	857.5
132.5°	1358.3	1380.4	1468.7	1557.1	1468.7	1380.4	1358.3	1210.8	1014.1	915.7	858.4
135°	1279.1	1298.2	1374.3	1450.4	1374.3	1298.2	1279.1	1155.6	990.8	908.4	857.6
137.5°	1220.6	1236.1	1298.5	1360.8	1298.5	1236.1	1220.6	1116.2	976.8	907.2	862.9
140°	1173.6	1188.2	1246.4	1304.7	1246.4	1188.2	1173.6	1083.4	963.0	902.9	863.7
142.5°	1140.7	1153.2	1203.4	1253.5	1203.4	1153.2	1140.7	1061.4	955.7	902.9	866.9
145°	1091.3	1100.8	1138.7	1176.7	1138.7	1100.8	1091.3	1026.5	940.1	896.9	866.9
147.5°	1049.9	1057.8	1089.1	1120.6	1089.1	1057.8	1049.9	998.9	930.9	896.9	872.9
150°	1026.0	1032.4	1057.9	1083.4	1057.9	1032.4	1026.0	982.9	925.6	896.9	876.0
152.5°	1007.2	1012.0	1031.3	1050.5	1031.3	1012.0	1007.2	970.4	921.4	896.9	878.0
155°	984.6	987.8	1000.6	1013.3	1000.6	987.8	984.6	955.3	916.4	896.9	882.5
157.5°	965.1	967.4	976.2	985.2	976.2	967.4	965.1	942.3	912.0	896.9	887.0
160°	955.3	956.6	961.8	967.0	961.8	956.6	955.3	935.8	909.9	896.9	889.0
162.5°	946.2	947.3	952.3	957.2	952.3	947.3	946.2	929.7	907.8	896.9	891.1
165°	932.2	933.4	938.7	943.8	938.7	933.4	932.2	920.4	904.8	896.9	894.3
167.5°	926.1	926.6	928.8	931.0	928.8	926.6	926.1	918.4	908.0	902.9	900.7
170°	926.1	926.1	926.1	926.1	926.1	926.1	926.1	918.4	908.0	902.9	902.8
172.5°	921.2	920.7	918.9	917.0	918.9	920.7	921.2	915.1	906.9	902.9	902.9
175°	914.5	914.5	914.5	914.5	914.5	914.5	914.5	910.7	905.4	902.9	904.1
177.5°	913.3	912.7	910.6	908.4	910.6	912.7	913.3	910.3	906.2	904.2	905.1
180°	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4	908.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4130.9	4130.9	4130.9	4130.9	4130.9
2.5°	4080.2	4099.7	4111.4	4127.1	4166.1
5°	3923.9	3998.1	4021.6	4080.2	4150.6
7.5°	3580.0	3806.7	3869.2	4009.9	4119.2
10°	3247.7	3474.4	3583.8	3916.0	4080.2
12.5°	3079.7	3212.6	3286.8	3751.9	4025.4
15°	2974.2	3067.9	3122.7	3533.0	3962.9
17.5°	2892.0	2958.5	2997.6	3318.1	3877.0
20°	2841.3	2872.5	2907.7	3161.7	3779.2
22.5°	2806.1	2786.5	2813.9	3052.4	3646.3
25°	2782.7	2708.4	2739.7	2966.4	3490.0
27.5°	2802.2	2638.0	2649.8	2888.2	3325.9
30°	2806.1	2552.1	2556.0	2806.1	3142.2
32.5°	2778.7	2462.1	2466.1	2704.5	2935.0
35°	2712.3	2356.6	2352.8	2587.3	2653.7
37.5°	2622.4	2243.3	2243.3	2458.3	2344.9
40°	2513.0	2130.0	2141.7	2290.2	2071.4
42.5°	2380.1	2008.8	2024.5	2067.4	1868.2
45°	2235.5	1891.5	1903.3	1747.0	1711.8
47.5°	2075.2	1770.5	1774.3	1449.9	1661.0
50°	1883.8	1645.3	1629.8	1242.9	1657.1
52.5°	1715.7	1508.6	1461.6	1125.5	1504.6
55°	1551.6	1363.9	1262.4	1035.7	1395.2
57.5°	1406.9	1176.4	1078.7	930.2	1371.8
60°	1274.1	992.7	918.5	816.8	1258.4
62.5°	1164.7	855.9	840.3	738.6	1141.2
65°	1047.4	762.1	758.2	672.3	969.2
67.5°	934.0	699.6	695.6	609.6	738.6
70°	813.0	633.1	625.3	543.3	547.1
72.5°	687.8	558.9	551.1	488.6	453.4
75°	562.8	472.9	468.9	426.0	367.4
77.5°	441.6	375.2	383.0	343.9	269.7
80°	316.6	273.6	281.4	246.2	203.2
82.5°	211.0	179.7	187.6	156.3	136.8
85°	117.2	101.7	105.5	82.0	62.5
87.5°	54.7	46.9	46.9	31.3	19.5
90°	26.8	17.1	15.9	10.9	6.1
92.5°	165.4	117.6	107.3	65.8	24.4
95°	407.0	229.2	210.3	134.4	58.6
97.5°	548.3	251.8	235.1	168.1	101.2
100°	599.7	270.7	255.5	194.8	134.1
102.5°	623.3	289.6	275.4	218.8	162.2
105°	640.7	317.6	305.6	257.6	209.7
107.5°	644.1	359.1	348.0	303.2	258.5
110°	639.1	382.3	372.2	331.8	291.5



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CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	639.3	410.3	400.6	362.2	323.7
115°	645.2	452.4	443.5	408.0	372.5
117.5°	657.2	493.2	485.1	452.9	420.6
120°	666.9	517.0	509.4	479.1	448.7
122.5°	681.0	545.1	537.4	506.8	476.1
125°	700.0	581.0	574.0	546.1	518.2
127.5°	718.8	615.8	608.8	580.6	552.4
130°	732.6	638.9	631.3	601.1	570.7
132.5°	743.8	657.9	650.3	619.9	589.5
135°	756.0	679.7	672.8	645.2	617.6
137.5°	774.3	707.8	701.0	673.6	646.2
140°	785.4	726.7	720.4	695.2	670.0
142.5°	794.8	740.8	735.0	711.6	688.3
145°	807.0	762.1	757.0	736.6	716.3
147.5°	824.9	788.9	784.0	764.2	744.4
150°	834.3	802.9	798.5	780.5	762.7
152.5°	840.4	812.1	808.7	795.1	781.6
155°	853.8	832.2	829.7	819.7	809.6
157.5°	867.2	852.3	849.8	840.2	830.4
160°	873.3	861.5	859.6	852.0	844.4
162.5°	879.8	871.2	869.8	864.1	858.4
165°	889.1	885.2	883.9	878.8	873.7
167.5°	896.4	893.1	892.5	890.1	887.7
170°	902.5	902.3	901.7	899.2	896.9
172.5°	902.9	902.9	902.8	902.2	901.7
175°	906.5	908.4	908.4	908.4	908.4
177.5°	907.0	908.4	908.4	908.4	908.4
180°	908.4	908.4	908.4	908.4	908.4



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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	14.91	15.92	15.73	16.76	17.81	17.76	18.77	18.58	19.61	20.66
	3H	15.39	16.30	16.23	17.15	18.23	19.12	20.03	19.96	20.88	21.96
	4H	15.59	16.45	16.44	17.31	18.39	19.58	20.43	20.43	21.29	22.38
	6H	15.72	16.51	16.58	17.38	18.47	19.87	20.66	20.74	21.53	22.63
	8H	15.72	16.47	16.60	17.36	18.46	19.96	20.71	20.83	21.59	22.69
	12H	15.70	16.42	16.58	17.30	18.42	20.00	20.72	20.88	21.60	22.72
4H	2H	15.96	16.82	16.82	17.68	18.76	18.18	19.04	19.04	19.90	20.99
	3H	17.00	17.72	17.87	18.61	19.71	19.71	20.42	20.58	21.32	22.42
	4H	17.29	17.93	18.17	18.82	19.95	20.25	20.90	21.13	21.79	22.92
	6H	17.42	17.98	18.31	18.89	20.02	20.63	21.19	21.52	22.10	23.23
	8H	17.43	17.95	18.33	18.86	20.00	20.74	21.26	21.64	22.17	23.32
	12H	17.40	17.87	18.32	18.80	19.95	20.81	21.28	21.73	22.21	23.36
8H	4H	17.75	18.28	18.65	19.19	20.33	20.38	20.91	21.28	21.82	22.96
	6H	18.02	18.45	18.95	19.41	20.55	20.83	21.27	21.76	22.22	23.36
	8H	18.07	18.45	19.00	19.39	20.55	20.99	21.37	21.92	22.32	23.48
	12H	18.06	18.39	18.99	19.33	20.54	21.10	21.44	22.04	22.37	23.58
12H	4H	17.77	18.24	18.69	19.17	20.32	20.36	20.83	21.27	21.76	22.90
	6H	18.08	18.47	19.02	19.41	20.57	20.83	21.21	21.77	22.16	23.32
	8H	18.16	18.50	19.10	19.43	20.64	21.00	21.34	21.94	22.28	23.49