

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: P934477

Luminaire Tested: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934477
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-12-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

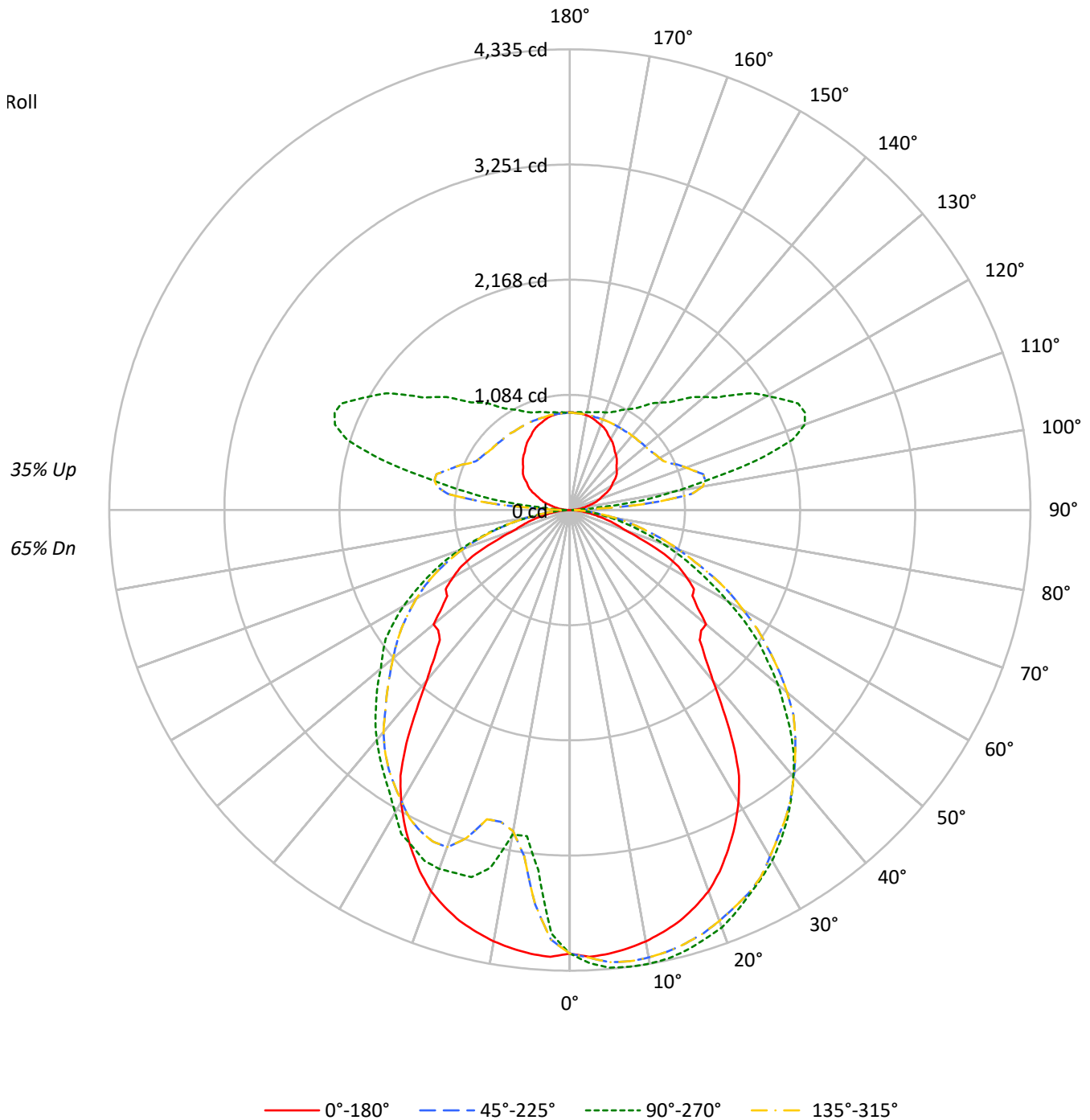
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16771.6 lumens
Efficiency: N/A
Efficacy: 123.7 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): 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

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Luminous Intensity Polar Plot





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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12907	12907	12907	12907
5°	13008	13029	13008	10245
10°	12926	12834	12926	9176
15°	12790	12556	12790	10485
20°	12528	12227	12528	10507
25°	11985	11747	11985	10284
30°	11282	11348	11282	9795
35°	10063	10843	10063	9258
40°	8390	10249	8390	8852
45°	7501	9554	7501	8385
50°	7976	8725	7976	7917
55°	7510	7831	7510	7646
60°	7752	6651	7752	7003
65°	7040	5498	7040	6146
70°	4886	4382	4886	5151
75°	4301	3239	4301	3879
80°	3492	2141	3492	2331
85°	2045	1134	2045	965

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 11489 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	376.7	2.2
10°-20°	1069.5	6.4
20°-30°	1653.2	9.9
30°-40°	1973.6	11.8
40°-50°	1985.2	11.8
50°-60°	1727.3	10.3
60°-70°	1224.7	7.3
70°-80°	647.9	3.9
80°-90°	164.9	1.0
90°-100°	447.3	2.7
100°-110°	1176.0	7.0
110°-120°	1219.3	7.3
120°-130°	978.1	5.8
130°-140°	767.4	4.6
140°-150°	589.0	3.5
150°-160°	424.2	2.5
160°-170°	259.6	1.5
170°-180°	87.7	0.5
0°-30°	3099.4	18.5
0°-40°	5073.0	30.2
0°-60°	8785.5	52.4
0°-90°	10823.0	64.5
90°-120°	2842.6	16.9
90°-150°	5177.1	30.9
90°-180°	5949.0	35.5
0°-180°	16771.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	4173	4173	4173	4173	4173	
5°	4193	4323	4193	3399	4193	398
15°	4003	4283	4003	3577	4003	1126
25°	3525	3995	3525	3498	3525	1619
35°	2681	3565	2681	3044	2681	1658
45°	1729	2937	1729	2578	1729	1385
55°	1409	2167	1409	2116	1409	1295
65°	979	1307	979	1461	979	936
75°	371	620	371	742	371	390
85°	63	158	63	134	63	85
90°	6	23	6	23	6	8
95°	59	270	59	270	59	66
105°	212	1841	212	1841	212	225
115°	376	2371	376	2371	376	372
125°	524	1888	524	1888	524	465
135°	624	1465	624	1465	624	483
145°	724	1189	724	1189	724	453
155°	818	1024	818	1024	818	376
165°	883	953	883	953	883	249
175°	918	924	918	924	918	87
180°	918	918	918	918	918	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8
2.5°	4208.4	4208.4	4232.1	4240.0	4240.0	4228.1	4216.3	4228.1	4263.7	4275.5	4271.5
5°	4192.7	4224.2	4267.7	4275.5	4283.4	4279.5	4271.5	4279.5	4319.0	4326.8	4330.8
7.5°	4161.0	4220.3	4275.5	4287.4	4299.2	4287.4	4283.4	4291.4	4330.8	4338.7	4338.7
10°	4121.5	4204.5	4267.7	4275.5	4287.4	4275.5	4275.5	4291.4	4330.8	4338.7	4342.7
12.5°	4066.3	4180.8	4240.0	4247.9	4263.7	4259.7	4255.8	4271.5	4311.1	4319.0	4319.0
15°	4003.1	4137.4	4192.7	4200.5	4228.1	4220.3	4220.3	4236.1	4279.5	4291.4	4287.4
17.5°	3916.3	4082.1	4145.3	4157.1	4176.8	4172.8	4176.8	4192.7	4232.1	4240.0	4244.0
20°	3817.6	4007.1	4082.1	4094.0	4113.7	4113.7	4113.7	4133.4	4172.8	4188.7	4188.7
22.5°	3683.3	3928.1	4007.1	4015.0	4038.7	4038.7	4046.5	4074.1	4109.7	4113.7	4113.7
25°	3525.4	3841.3	3908.4	3932.1	3955.7	3967.6	3979.4	3995.3	4007.1	4003.1	4007.1
27.5°	3359.6	3730.7	3817.6	3833.4	3865.0	3876.8	3892.6	3896.6	3900.4	3912.3	3904.4
30°	3174.1	3576.7	3707.0	3722.8	3774.1	3782.0	3766.3	3774.1	3793.9	3801.8	3809.7
32.5°	2964.8	3347.8	3592.6	3628.0	3675.4	3651.7	3647.8	3659.7	3691.3	3691.3	3699.1
35°	2680.6	3170.2	3486.0	3517.6	3553.0	3525.4	3541.2	3545.2	3564.9	3576.7	3572.9
37.5°	2368.7	3016.2	3375.4	3399.1	3426.7	3391.2	3414.9	3426.7	3442.6	3434.6	3434.6
40°	2092.4	2775.4	3245.2	3260.9	3284.6	3257.0	3280.6	3288.6	3296.5	3288.6	3284.6
42.5°	1887.1	2510.8	3106.9	3126.7	3110.9	3130.6	3138.5	3154.3	3142.5	3126.7	3126.7
45°	1729.2	2439.8	2956.9	2980.6	2956.9	2988.5	3000.4	3000.4	2964.8	2956.9	2953.0
47.5°	1677.9	2297.7	2806.9	2806.9	2795.1	2834.5	2854.3	2826.6	2791.1	2779.3	2779.3
50°	1673.9	2139.7	2601.7	2585.8	2641.1	2688.5	2668.8	2641.1	2613.5	2570.1	2570.1
52.5°	1519.9	1946.3	2337.1	2396.4	2483.2	2510.8	2479.2	2451.7	2404.2	2384.5	2368.7
55°	1409.3	1745.0	2096.3	2214.7	2305.5	2341.1	2281.8	2254.2	2183.1	2171.3	2163.4
57.5°	1385.7	1452.8	1875.3	2025.3	2135.8	2131.8	2096.3	2045.0	1985.7	1974.0	1970.0
60°	1271.2	1050.1	1638.3	1816.0	1930.5	1918.7	1887.1	1839.7	1784.4	1776.6	1768.6
62.5°	1152.8	761.9	1369.9	1571.3	1733.1	1729.2	1701.6	1630.5	1591.0	1571.3	1555.5
65°	979.1	639.5	975.1	1306.8	1539.6	1547.6	1488.3	1437.0	1393.6	1369.9	1365.9
67.5°	746.1	521.1	659.3	1089.6	1354.2	1346.2	1271.2	1247.5	1192.2	1180.4	1156.8
70°	552.7	347.4	458.0	884.3	1172.5	1152.8	1093.5	1065.9	1014.6	986.9	971.2
72.5°	458.0	280.3	335.6	686.9	986.9	963.2	911.9	880.4	836.9	813.2	797.5
75°	371.1	296.1	256.6	509.3	801.4	785.6	738.2	706.7	671.1	639.5	643.5
77.5°	272.4	276.4	205.3	375.1	635.6	611.9	584.3	544.8	529.0	497.4	497.4
80°	205.3	217.1	154.0	256.6	458.0	458.0	434.3	406.7	379.0	363.2	363.2
82.5°	138.1	138.1	114.4	161.8	311.8	300.0	284.3	276.4	260.6	252.7	252.7
85°	63.1	79.0	71.0	98.7	169.7	177.7	177.7	169.7	165.8	157.9	161.8
87.5°	19.7	35.6	43.4	55.3	86.9	90.8	94.7	94.7	94.7	98.7	98.7
90°	6.2	11.1	16.0	17.2	27.1	40.2	46.8	41.6	31.2	23.4	23.4
92.5°	24.6	66.4	108.4	118.8	167.0	231.4	263.5	231.0	165.8	117.0	112.3
95°	59.2	135.8	212.4	231.6	411.1	650.7	770.4	687.4	521.6	397.2	383.1
97.5°	102.2	169.8	237.4	254.4	553.9	953.2	1152.9	1100.5	995.6	917.0	890.2
100°	135.5	196.8	258.1	273.4	605.8	1048.9	1270.5	1274.3	1282.0	1287.7	1255.8
102.5°	163.8	221.0	278.2	292.5	629.6	1079.1	1303.8	1370.5	1504.1	1604.3	1576.9
105°	211.8	260.3	308.7	320.8	647.2	1082.5	1300.1	1449.8	1749.2	1973.8	1959.0
107.5°	261.2	306.3	351.5	362.7	650.6	1034.3	1226.2	1435.0	1852.8	2166.0	2169.6
110°	294.4	335.2	376.0	386.1	645.6	991.6	1164.6	1398.1	1865.0	2215.2	2230.5



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	327.0	365.8	404.7	414.4	645.8	954.3	1108.5	1347.5	1825.4	2183.8	2207.3
115°	376.3	412.1	448.0	457.0	651.8	911.5	1041.4	1271.6	1731.9	2077.3	2109.9
117.5°	424.9	457.5	490.0	498.2	663.8	884.7	995.2	1203.0	1618.4	1930.0	1966.2
120°	453.3	484.0	514.5	522.2	673.7	875.8	976.8	1166.6	1546.2	1830.9	1866.1
122.5°	481.0	511.9	542.8	550.6	687.9	871.0	962.5	1133.4	1475.4	1731.7	1766.4
125°	523.5	551.7	579.9	586.9	707.1	867.1	947.2	1092.4	1382.7	1600.6	1632.5
127.5°	558.0	586.4	614.9	622.0	726.1	864.8	934.2	1058.9	1308.2	1495.3	1522.3
130°	576.5	607.2	637.7	645.4	740.0	866.2	929.4	1040.3	1262.3	1428.8	1453.7
132.5°	595.5	626.2	656.9	664.5	751.4	867.1	925.0	1024.4	1223.1	1372.1	1394.4
135°	623.9	651.8	679.7	686.6	763.6	866.3	917.6	1000.9	1167.3	1292.1	1311.3
137.5°	652.8	680.5	708.2	715.0	782.2	871.7	916.4	986.7	1127.5	1232.9	1248.7
140°	676.8	702.3	727.7	734.1	793.4	872.5	912.0	972.8	1094.4	1185.5	1200.3
142.5°	695.3	718.8	742.4	748.3	802.9	875.7	912.0	965.4	1072.2	1152.3	1164.9
145°	723.6	744.1	764.6	769.8	815.2	875.7	906.0	949.6	1036.9	1102.4	1111.9
147.5°	752.0	771.9	791.9	796.9	833.3	881.8	906.0	940.3	1009.0	1060.5	1068.5
150°	770.4	788.4	806.6	811.0	842.7	884.8	906.0	934.9	992.9	1036.4	1042.9
152.5°	789.5	803.2	816.9	820.3	848.9	886.9	906.0	930.8	980.3	1017.4	1022.3
155°	817.8	828.0	838.1	840.6	862.4	891.4	906.0	925.7	965.0	994.6	997.8
157.5°	838.8	848.7	858.5	860.9	876.0	896.0	906.0	921.3	951.9	974.9	977.2
160°	853.0	860.6	868.3	870.2	882.2	898.0	906.0	919.1	945.3	965.0	966.3
162.5°	867.1	872.9	878.7	880.1	888.7	900.2	906.0	917.0	939.1	955.8	957.0
165°	882.6	887.7	892.9	894.2	898.1	903.4	906.0	913.9	929.8	941.6	942.9
167.5°	896.7	899.1	901.6	902.2	905.5	909.8	912.0	917.2	927.7	935.4	936.0
170°	906.0	908.4	910.8	911.4	911.6	911.9	912.0	917.2	927.7	935.4	935.4
172.5°	910.8	911.3	911.9	912.0	912.0	912.0	912.0	916.1	924.4	930.6	930.1
175°	917.6	917.6	917.6	917.6	915.7	913.2	912.0	914.6	919.9	923.8	923.8
177.5°	917.6	917.6	917.6	917.6	916.2	914.3	913.3	915.4	919.5	922.6	922.0
180°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8
2.5°	4279.5	4267.7	4279.5	4271.5	4275.5	4263.7	4228.1	4216.3	4228.1	4240.0	4240.0
5°	4330.8	4322.9	4330.8	4330.8	4326.8	4319.0	4279.5	4271.5	4279.5	4283.4	4275.5
7.5°	4346.5	4334.8	4346.5	4338.7	4338.7	4330.8	4291.4	4283.4	4287.4	4299.2	4287.4
10°	4346.5	4334.8	4346.5	4342.7	4338.7	4330.8	4291.4	4275.5	4275.5	4287.4	4275.5
12.5°	4326.8	4319.0	4326.8	4319.0	4319.0	4311.1	4271.5	4255.8	4259.7	4263.7	4247.9
15°	4295.2	4283.4	4295.2	4287.4	4291.4	4279.5	4236.1	4220.3	4220.3	4228.1	4200.5
17.5°	4247.9	4232.1	4247.9	4244.0	4240.0	4232.1	4192.7	4176.8	4172.8	4176.8	4157.1
20°	4192.7	4180.8	4192.7	4188.7	4188.7	4172.8	4133.4	4113.7	4113.7	4113.7	4094.0
22.5°	4105.8	4094.0	4105.8	4113.7	4113.7	4109.7	4074.1	4046.5	4038.7	4038.7	4015.0
25°	4007.1	3995.3	4007.1	4007.1	4003.1	4007.1	3995.3	3979.4	3967.6	3955.7	3932.1
27.5°	3912.3	3904.4	3912.3	3904.4	3912.3	3900.4	3896.6	3892.6	3876.8	3865.0	3833.4
30°	3817.6	3809.7	3817.6	3809.7	3801.8	3793.9	3774.1	3766.3	3782.0	3774.1	3722.8
32.5°	3699.1	3691.3	3699.1	3699.1	3691.3	3691.3	3659.7	3647.8	3651.7	3675.4	3628.0
35°	3576.7	3564.9	3576.7	3572.9	3576.7	3564.9	3545.2	3541.2	3525.4	3553.0	3517.6
37.5°	3434.6	3422.8	3434.6	3434.6	3434.6	3442.6	3426.7	3414.9	3391.2	3426.7	3399.1
40°	3288.6	3272.8	3288.6	3284.6	3288.6	3296.5	3288.6	3280.6	3257.0	3284.6	3260.9
42.5°	3122.8	3118.8	3122.8	3126.7	3126.7	3142.5	3154.3	3138.5	3130.6	3110.9	3126.7
45°	2945.1	2937.2	2945.1	2953.0	2956.9	2964.8	3000.4	3000.4	2988.5	2956.9	2980.6
47.5°	2755.6	2735.9	2755.6	2779.3	2779.3	2791.1	2826.6	2854.3	2834.5	2795.1	2806.9
50°	2554.2	2558.2	2554.2	2570.1	2570.1	2613.5	2641.1	2668.8	2688.5	2641.1	2585.8
52.5°	2356.8	2353.0	2356.8	2368.7	2384.5	2404.2	2451.7	2479.2	2510.8	2483.2	2396.4
55°	2159.4	2167.4	2159.4	2163.4	2171.3	2183.1	2254.2	2281.8	2341.1	2305.5	2214.7
57.5°	1962.1	1950.3	1962.1	1970.0	1974.0	1985.7	2045.0	2096.3	2131.8	2135.8	2025.3
60°	1733.1	1717.3	1733.1	1768.6	1776.6	1784.4	1839.7	1887.1	1918.7	1930.5	1816.0
62.5°	1531.7	1504.2	1531.7	1555.5	1571.3	1591.0	1630.5	1701.6	1729.2	1733.1	1571.3
65°	1318.6	1306.8	1318.6	1365.9	1369.9	1393.6	1437.0	1488.3	1547.6	1539.6	1306.8
67.5°	1125.2	1125.2	1125.2	1156.8	1180.4	1192.2	1247.5	1271.2	1346.2	1354.2	1089.6
70°	947.5	943.5	947.5	971.2	986.9	1014.6	1065.9	1093.5	1152.8	1172.5	884.3
72.5°	777.8	773.8	777.8	797.5	813.2	836.9	880.4	911.9	963.2	986.9	686.9
75°	627.7	619.8	627.7	643.5	639.5	671.1	706.7	738.2	785.6	801.4	509.3
77.5°	481.7	481.7	481.7	497.4	497.4	529.0	544.8	584.3	611.9	635.6	375.1
80°	359.3	355.3	359.3	363.2	363.2	379.0	406.7	434.3	458.0	458.0	256.6
82.5°	252.7	244.7	252.7	252.7	252.7	260.6	276.4	284.3	300.0	311.8	161.8
85°	157.9	157.9	157.9	161.8	157.9	165.8	169.7	177.7	177.7	169.7	98.7
87.5°	102.7	98.7	102.7	98.7	98.7	94.7	94.7	94.7	90.8	86.9	55.3
90°	23.4	23.4	23.4	23.4	23.4	31.2	41.6	46.8	40.2	27.1	17.2
92.5°	93.7	75.1	93.7	112.3	117.0	165.8	231.0	263.5	231.4	167.0	118.8
95°	326.7	270.3	326.7	383.1	397.2	521.6	687.4	770.4	650.7	411.1	231.6
97.5°	782.9	675.6	782.9	890.2	917.0	995.6	1100.5	1152.9	953.2	553.9	254.4
100°	1128.0	1000.2	1128.0	1255.8	1287.7	1282.0	1274.3	1270.5	1048.9	605.8	273.4
102.5°	1467.4	1357.9	1467.4	1576.9	1604.3	1504.1	1370.5	1303.8	1079.1	629.6	292.5
105°	1900.3	1841.4	1900.3	1959.0	1973.8	1749.2	1449.8	1300.1	1082.5	647.2	320.8
107.5°	2183.7	2198.0	2183.7	2169.6	2166.0	1852.8	1435.0	1226.2	1034.3	650.6	362.7
110°	2291.8	2353.1	2291.8	2230.5	2215.2	1865.0	1398.1	1164.6	991.6	645.6	386.1



TEST NUMBER: P934477

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2301.6	2395.7	2301.6	2207.3	2183.8	1825.4	1347.5	1108.5	954.3	645.8	414.4
115°	2240.5	2371.1	2240.5	2109.9	2077.3	1731.9	1271.6	1041.4	911.5	651.8	457.0
117.5°	2111.0	2255.8	2111.0	1966.2	1930.0	1618.4	1203.0	995.2	884.7	663.8	498.2
120°	2006.8	2147.5	2006.8	1866.1	1830.9	1546.2	1166.6	976.8	875.8	673.7	522.2
122.5°	1905.2	2044.0	1905.2	1766.4	1731.7	1475.4	1133.4	962.5	871.0	687.9	550.6
125°	1760.3	1888.2	1760.3	1632.5	1600.6	1382.7	1092.4	947.2	867.1	707.1	586.9
127.5°	1630.1	1737.9	1630.1	1522.3	1495.3	1308.2	1058.9	934.2	864.8	726.1	622.0
130°	1553.4	1653.0	1553.4	1453.7	1428.8	1262.3	1040.3	929.4	866.2	740.0	645.4
132.5°	1483.6	1572.9	1483.6	1394.4	1372.1	1223.1	1024.4	925.0	867.1	751.4	664.5
135°	1388.2	1465.1	1388.2	1311.3	1292.1	1167.3	1000.9	917.6	866.3	763.6	686.6
137.5°	1311.6	1374.6	1311.6	1248.7	1232.9	1127.5	986.7	916.4	871.7	782.2	715.0
140°	1259.0	1317.9	1259.0	1200.3	1185.5	1094.4	972.8	912.0	872.5	793.4	734.1
142.5°	1215.6	1266.2	1215.6	1164.9	1152.3	1072.2	965.4	912.0	875.7	802.9	748.3
145°	1150.3	1188.6	1150.3	1111.9	1102.4	1036.9	949.6	906.0	875.7	815.2	769.8
147.5°	1100.2	1132.0	1100.2	1068.5	1060.5	1009.0	940.3	906.0	881.8	833.3	796.9
150°	1068.6	1094.4	1068.6	1042.9	1036.4	992.9	934.9	906.0	884.8	842.7	811.0
152.5°	1041.7	1061.1	1041.7	1022.3	1017.4	980.3	930.8	906.0	886.9	848.9	820.3
155°	1010.7	1023.6	1010.7	997.8	994.6	965.0	925.7	906.0	891.4	862.4	840.6
157.5°	986.1	995.2	986.1	977.2	974.9	951.9	921.3	906.0	896.0	876.0	860.9
160°	971.6	976.8	971.6	966.3	965.0	945.3	919.1	906.0	898.0	882.2	870.2
162.5°	961.9	966.9	961.9	957.0	955.8	939.1	917.0	906.0	900.2	888.7	880.1
165°	948.2	953.4	948.2	942.9	941.6	929.8	913.9	906.0	903.4	898.1	894.2
167.5°	938.2	940.4	938.2	936.0	935.4	927.7	917.2	912.0	909.8	905.5	902.2
170°	935.4	935.4	935.4	935.4	935.4	927.7	917.2	912.0	911.9	911.6	911.4
172.5°	928.2	926.3	928.2	930.1	930.6	924.4	916.1	912.0	912.0	912.0	912.0
175°	923.8	923.8	923.8	923.8	923.8	919.9	914.6	912.0	913.2	915.7	917.6
177.5°	919.8	917.6	919.8	922.0	922.6	919.5	915.4	913.3	914.3	916.2	917.6
180°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6



TEST NUMBER: P934477

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CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8
2.5°	4232.1	4208.4	4208.4	4169.0	4153.1	4141.3	4121.5	4062.4	4046.5	4030.7	4054.4
5°	4267.7	4224.2	4192.7	4121.5	4062.4	4038.7	3963.7	3821.6	3726.7	3655.7	3616.3
7.5°	4275.5	4220.3	4161.0	4050.5	3908.4	3845.3	3616.3	3355.7	3284.6	3221.5	3181.9
10°	4267.7	4204.5	4121.5	3955.7	3620.2	3509.6	3280.6	3110.9	3067.5	3055.6	3067.5
12.5°	4240.0	4180.8	4066.3	3790.0	3320.2	3245.2	3110.9	3012.2	3004.3	3024.1	3130.6
15°	4192.7	4137.4	4003.1	3568.9	3154.3	3099.1	3004.3	2968.8	3012.2	3150.3	3470.2
17.5°	4145.3	4082.1	3916.3	3351.7	3028.0	2988.5	2921.4	2992.5	3237.2	3422.8	3529.4
20°	4082.1	4007.1	3817.6	3193.8	2937.2	2901.6	2870.1	3189.9	3375.4	3442.6	3501.7
22.5°	4007.1	3928.1	3683.3	3083.3	2842.5	2814.8	2834.5	3300.4	3375.4	3422.8	3474.1
25°	3908.4	3841.3	3525.4	2996.5	2767.5	2735.9	2810.9	3288.6	3332.0	3343.9	3446.5
27.5°	3817.6	3730.7	3359.6	2917.5	2676.7	2664.8	2830.6	3237.2	3268.9	3280.6	3391.2
30°	3707.0	3576.7	3174.1	2834.5	2581.9	2577.9	2834.5	3174.1	3166.2	3197.8	3308.3
32.5°	3592.6	3347.8	2964.8	2731.9	2491.1	2487.1	2806.9	3079.3	3071.5	3114.9	3197.8
35°	3486.0	3170.2	2680.6	2613.5	2376.7	2380.5	2739.8	2968.8	2972.8	3012.2	3063.5
37.5°	3375.4	3016.2	2368.7	2483.2	2266.1	2266.1	2649.0	2866.2	2858.2	2870.1	2941.2
40°	3245.2	2775.4	2092.4	2313.4	2163.4	2151.6	2538.5	2755.6	2727.9	2724.1	2822.8
42.5°	3106.9	2510.8	1887.1	2088.4	2045.0	2029.2	2404.2	2621.4	2570.1	2581.9	2708.2
45°	2956.9	2439.8	1729.2	1764.7	1922.6	1910.7	2258.1	2467.4	2431.8	2463.5	2593.8
47.5°	2806.9	2297.7	1677.9	1464.6	1792.3	1788.4	2096.3	2317.4	2297.7	2329.2	2467.4
50°	2601.7	2139.7	1673.9	1255.5	1646.3	1662.0	1902.9	2171.3	2171.3	2199.0	2345.0
52.5°	2337.1	1946.3	1519.9	1136.9	1476.5	1523.9	1733.1	2045.0	2052.9	2080.5	2210.8
55°	2096.3	1745.0	1409.3	1046.2	1275.2	1377.8	1567.3	1914.7	1930.5	1958.1	2076.6
57.5°	1875.3	1452.8	1385.7	939.6	1089.6	1188.3	1421.2	1788.4	1796.3	1820.0	1934.4
60°	1638.3	1050.1	1271.2	825.1	927.8	1002.8	1287.0	1638.3	1666.0	1681.7	1780.4
62.5°	1369.9	761.9	1152.8	746.1	848.8	864.6	1176.5	1496.2	1531.7	1543.6	1602.9
65°	975.1	639.5	979.1	679.1	765.9	769.8	1058.1	1350.2	1381.8	1401.5	1444.9
67.5°	659.3	521.1	746.1	615.8	702.7	706.7	943.5	1180.4	1223.8	1239.6	1267.3
70°	458.0	347.4	552.7	548.8	631.7	639.5	821.2	1026.5	1065.9	1077.8	1093.5
72.5°	335.6	280.3	458.0	493.5	556.7	564.5	694.8	852.8	892.2	904.1	911.9
75°	256.6	296.1	371.1	430.3	473.7	477.7	568.5	694.8	722.5	730.4	734.3
77.5°	205.3	276.4	272.4	347.4	386.8	379.0	446.1	536.9	560.5	560.5	560.5
80°	154.0	217.1	205.3	248.7	284.3	276.4	319.8	383.0	390.8	398.7	394.8
82.5°	114.4	138.1	138.1	157.9	189.5	181.6	213.1	248.7	248.7	248.7	256.6
85°	71.0	79.0	63.1	82.9	106.6	102.7	118.4	134.3	138.1	138.1	130.3
87.5°	43.4	35.6	19.7	31.6	47.4	47.4	55.3	59.3	55.3	55.3	55.3
90°	16.0	11.1	6.2	11.1	16.0	17.2	27.1	40.2	46.8	41.6	31.2
92.5°	108.4	66.4	24.6	66.4	108.4	118.8	167.0	231.4	263.5	231.0	165.8
95°	212.4	135.8	59.2	135.8	212.4	231.6	411.1	650.7	770.4	687.4	521.6
97.5°	237.4	169.8	102.2	169.8	237.4	254.4	553.9	953.2	1152.9	1100.5	995.6
100°	258.1	196.8	135.5	196.8	258.1	273.4	605.8	1048.9	1270.5	1274.3	1282.0
102.5°	278.2	221.0	163.8	221.0	278.2	292.5	629.6	1079.1	1303.8	1370.5	1504.1
105°	308.7	260.3	211.8	260.3	308.7	320.8	647.2	1082.5	1300.1	1449.8	1749.2
107.5°	351.5	306.3	261.2	306.3	351.5	362.7	650.6	1034.3	1226.2	1435.0	1852.8
110°	376.0	335.2	294.4	335.2	376.0	386.1	645.6	991.6	1164.6	1398.1	1865.0



TEST NUMBER: P934477

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	404.7	365.8	327.0	365.8	404.7	414.4	645.8	954.3	1108.5	1347.5	1825.4
115°	448.0	412.1	376.3	412.1	448.0	457.0	651.8	911.5	1041.4	1271.6	1731.9
117.5°	490.0	457.5	424.9	457.5	490.0	498.2	663.8	884.7	995.2	1203.0	1618.4
120°	514.5	484.0	453.3	484.0	514.5	522.2	673.7	875.8	976.8	1166.6	1546.2
122.5°	542.8	511.9	481.0	511.9	542.8	550.6	687.9	871.0	962.5	1133.4	1475.4
125°	579.9	551.7	523.5	551.7	579.9	586.9	707.1	867.1	947.2	1092.4	1382.7
127.5°	614.9	586.4	558.0	586.4	614.9	622.0	726.1	864.8	934.2	1058.9	1308.2
130°	637.7	607.2	576.5	607.2	637.7	645.4	740.0	866.2	929.4	1040.3	1262.3
132.5°	656.9	626.2	595.5	626.2	656.9	664.5	751.4	867.1	925.0	1024.4	1223.1
135°	679.7	651.8	623.9	651.8	679.7	686.6	763.6	866.3	917.6	1000.9	1167.3
137.5°	708.2	680.5	652.8	680.5	708.2	715.0	782.2	871.7	916.4	986.7	1127.5
140°	727.7	702.3	676.8	702.3	727.7	734.1	793.4	872.5	912.0	972.8	1094.4
142.5°	742.4	718.8	695.3	718.8	742.4	748.3	802.9	875.7	912.0	965.4	1072.2
145°	764.6	744.1	723.6	744.1	764.6	769.8	815.2	875.7	906.0	949.6	1036.9
147.5°	791.9	771.9	752.0	771.9	791.9	796.9	833.3	881.8	906.0	940.3	1009.0
150°	806.6	788.4	770.4	788.4	806.6	811.0	842.7	884.8	906.0	934.9	992.9
152.5°	816.9	803.2	789.5	803.2	816.9	820.3	848.9	886.9	906.0	930.8	980.3
155°	838.1	828.0	817.8	828.0	838.1	840.6	862.4	891.4	906.0	925.7	965.0
157.5°	858.5	848.7	838.8	848.7	858.5	860.9	876.0	896.0	906.0	921.3	951.9
160°	868.3	860.6	853.0	860.6	868.3	870.2	882.2	898.0	906.0	919.1	945.3
162.5°	878.7	872.9	867.1	872.9	878.7	880.1	888.7	900.2	906.0	917.0	939.1
165°	892.9	887.7	882.6	887.7	892.9	894.2	898.1	903.4	906.0	913.9	929.8
167.5°	901.6	899.1	896.7	899.1	901.6	902.2	905.5	909.8	912.0	917.2	927.7
170°	910.8	908.4	906.0	908.4	910.8	911.4	911.6	911.9	912.0	917.2	927.7
172.5°	911.9	911.3	910.8	911.3	911.9	912.0	912.0	912.0	912.0	916.1	924.4
175°	917.6	917.6	917.6	917.6	917.6	917.6	915.7	913.2	912.0	914.6	919.9
177.5°	917.6	917.6	917.6	917.6	917.6	917.6	916.2	914.3	913.3	915.4	919.5
180°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6



TEST NUMBER: P934477

CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8	4172.8
2.5°	4026.8	4015.0	4030.7	3987.3	4030.7	4015.0	4026.8	4054.4	4030.7	4046.5	4062.4
5°	3533.3	3513.6	3450.4	3399.1	3450.4	3513.6	3533.3	3616.3	3655.7	3726.7	3821.6
7.5°	3158.3	3142.5	3126.7	3095.1	3126.7	3142.5	3158.3	3181.9	3221.5	3284.6	3355.7
10°	3075.3	3079.3	3103.0	3099.1	3103.0	3079.3	3075.3	3067.5	3055.6	3067.5	3110.9
12.5°	3288.6	3324.1	3454.3	3446.5	3454.3	3324.1	3288.6	3130.6	3024.1	3004.3	3012.2
15°	3533.3	3545.2	3572.9	3576.7	3572.9	3545.2	3533.3	3470.2	3150.3	3012.2	2968.8
17.5°	3557.0	3561.0	3580.7	3580.7	3580.7	3561.0	3557.0	3529.4	3422.8	3237.2	2992.5
20°	3537.3	3545.2	3584.6	3592.6	3584.6	3545.2	3537.3	3501.7	3442.6	3375.4	3189.9
22.5°	3529.4	3545.2	3576.7	3572.9	3576.7	3545.2	3529.4	3474.1	3422.8	3375.4	3300.4
25°	3489.9	3489.9	3493.9	3497.8	3493.9	3489.9	3489.9	3446.5	3343.9	3332.0	3288.6
27.5°	3407.0	3414.9	3438.6	3434.6	3438.6	3414.9	3407.0	3391.2	3280.6	3268.9	3237.2
30°	3332.0	3324.1	3304.3	3288.6	3304.3	3324.1	3332.0	3308.3	3197.8	3166.2	3174.1
32.5°	3205.6	3185.9	3166.2	3154.3	3166.2	3185.9	3205.6	3197.8	3114.9	3071.5	3079.3
35°	3055.6	3059.6	3055.6	3043.8	3055.6	3059.6	3055.6	3063.5	3012.2	2972.8	2968.8
37.5°	2949.1	2956.9	2953.0	2937.2	2953.0	2956.9	2949.1	2941.2	2870.1	2858.2	2866.2
40°	2838.5	2842.5	2838.5	2826.6	2838.5	2842.5	2838.5	2822.8	2724.1	2727.9	2755.6
42.5°	2731.9	2727.9	2716.1	2708.2	2716.1	2727.9	2731.9	2708.2	2581.9	2570.1	2621.4
45°	2609.5	2613.5	2589.8	2577.9	2589.8	2613.5	2609.5	2593.8	2463.5	2431.8	2467.4
47.5°	2487.1	2487.1	2467.4	2455.5	2467.4	2487.1	2487.1	2467.4	2329.2	2297.7	2317.4
50°	2356.8	2353.0	2325.3	2321.4	2325.3	2353.0	2356.8	2345.0	2199.0	2171.3	2171.3
52.5°	2206.8	2206.8	2210.8	2218.7	2210.8	2206.8	2206.8	2210.8	2080.5	2052.9	2045.0
55°	2076.6	2080.5	2108.1	2116.0	2108.1	2080.5	2076.6	2076.6	1958.1	1930.5	1914.7
57.5°	1942.3	1942.3	1962.1	1962.1	1962.1	1942.3	1942.3	1934.4	1820.0	1796.3	1788.4
60°	1788.4	1796.3	1812.0	1808.1	1812.0	1796.3	1788.4	1780.4	1681.7	1666.0	1638.3
62.5°	1626.5	1634.4	1638.3	1630.5	1638.3	1634.4	1626.5	1602.9	1543.6	1531.7	1496.2
65°	1456.7	1464.6	1468.6	1460.7	1468.6	1464.6	1456.7	1444.9	1401.5	1381.8	1350.2
67.5°	1283.0	1279.1	1275.2	1290.9	1275.2	1279.1	1283.0	1267.3	1239.6	1223.8	1180.4
70°	1105.4	1105.4	1101.5	1109.3	1101.5	1105.4	1105.4	1093.5	1077.8	1065.9	1026.5
72.5°	915.9	911.9	927.8	915.9	927.8	911.9	915.9	911.9	904.1	892.2	852.8
75°	730.4	738.2	730.4	742.2	730.4	738.2	730.4	734.3	730.4	722.5	694.8
77.5°	556.7	564.5	556.7	556.7	556.7	564.5	556.7	560.5	560.5	560.5	536.9
80°	394.8	390.8	390.8	386.8	390.8	390.8	394.8	394.8	398.7	390.8	383.0
82.5°	252.7	248.7	248.7	256.6	248.7	248.7	252.7	256.6	248.7	248.7	248.7
85°	138.1	142.1	134.3	134.3	134.3	142.1	138.1	130.3	138.1	138.1	134.3
87.5°	51.3	47.4	47.4	47.4	47.4	47.4	51.3	55.3	55.3	55.3	59.3
90°	23.4	23.4	23.4	23.4	23.4	23.4	23.4	31.2	41.6	46.8	40.2
92.5°	117.0	112.3	93.7	75.1	93.7	112.3	117.0	165.8	231.0	263.5	231.4
95°	397.2	383.1	326.7	270.3	326.7	383.1	397.2	521.6	687.4	770.4	650.7
97.5°	917.0	890.2	782.9	675.6	782.9	890.2	917.0	995.6	1100.5	1152.9	953.2
100°	1287.7	1255.8	1128.0	1000.2	1128.0	1255.8	1287.7	1282.0	1274.3	1270.5	1048.9
102.5°	1604.3	1576.9	1467.4	1357.9	1467.4	1576.9	1604.3	1504.1	1370.5	1303.8	1079.1
105°	1973.8	1959.0	1900.3	1841.4	1900.3	1959.0	1973.8	1749.2	1449.8	1300.1	1082.5
107.5°	2166.0	2169.6	2183.7	2198.0	2183.7	2169.6	2166.0	1852.8	1435.0	1226.2	1034.3
110°	2215.2	2230.5	2291.8	2353.1	2291.8	2230.5	2215.2	1865.0	1398.1	1164.6	991.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2183.8	2207.3	2301.6	2395.7	2301.6	2207.3	2183.8	1825.4	1347.5	1108.5	954.3
115°	2077.3	2109.9	2240.5	2371.1	2240.5	2109.9	2077.3	1731.9	1271.6	1041.4	911.5
117.5°	1930.0	1966.2	2111.0	2255.8	2111.0	1966.2	1930.0	1618.4	1203.0	995.2	884.7
120°	1830.9	1866.1	2006.8	2147.5	2006.8	1866.1	1830.9	1546.2	1166.6	976.8	875.8
122.5°	1731.7	1766.4	1905.2	2044.0	1905.2	1766.4	1731.7	1475.4	1133.4	962.5	871.0
125°	1600.6	1632.5	1760.3	1888.2	1760.3	1632.5	1600.6	1382.7	1092.4	947.2	867.1
127.5°	1495.3	1522.3	1630.1	1737.9	1630.1	1522.3	1495.3	1308.2	1058.9	934.2	864.8
130°	1428.8	1453.7	1553.4	1653.0	1553.4	1453.7	1428.8	1262.3	1040.3	929.4	866.2
132.5°	1372.1	1394.4	1483.6	1572.9	1483.6	1394.4	1372.1	1223.1	1024.4	925.0	867.1
135°	1292.1	1311.3	1388.2	1465.1	1388.2	1311.3	1292.1	1167.3	1000.9	917.6	866.3
137.5°	1232.9	1248.7	1311.6	1374.6	1311.6	1248.7	1232.9	1127.5	986.7	916.4	871.7
140°	1185.5	1200.3	1259.0	1317.9	1259.0	1200.3	1185.5	1094.4	972.8	912.0	872.5
142.5°	1152.3	1164.9	1215.6	1266.2	1215.6	1164.9	1152.3	1072.2	965.4	912.0	875.7
145°	1102.4	1111.9	1150.3	1188.6	1150.3	1111.9	1102.4	1036.9	949.6	906.0	875.7
147.5°	1060.5	1068.5	1100.2	1132.0	1100.2	1068.5	1060.5	1009.0	940.3	906.0	881.8
150°	1036.4	1042.9	1068.6	1094.4	1068.6	1042.9	1036.4	992.9	934.9	906.0	884.8
152.5°	1017.4	1022.3	1041.7	1061.1	1041.7	1022.3	1017.4	980.3	930.8	906.0	886.9
155°	994.6	997.8	1010.7	1023.6	1010.7	997.8	994.6	965.0	925.7	906.0	891.4
157.5°	974.9	977.2	986.1	995.2	986.1	977.2	974.9	951.9	921.3	906.0	896.0
160°	965.0	966.3	971.6	976.8	971.6	966.3	965.0	945.3	919.1	906.0	898.0
162.5°	955.8	957.0	961.9	966.9	961.9	957.0	955.8	939.1	917.0	906.0	900.2
165°	941.6	942.9	948.2	953.4	948.2	942.9	941.6	929.8	913.9	906.0	903.4
167.5°	935.4	936.0	938.2	940.4	938.2	936.0	935.4	927.7	917.2	912.0	909.8
170°	935.4	935.4	935.4	935.4	935.4	935.4	935.4	927.7	917.2	912.0	911.9
172.5°	930.6	930.1	928.2	926.3	928.2	930.1	930.6	924.4	916.1	912.0	912.0
175°	923.8	923.8	923.8	923.8	923.8	923.8	923.8	919.9	914.6	912.0	913.2
177.5°	922.6	922.0	919.8	917.6	919.8	922.0	922.6	919.5	915.4	913.3	914.3
180°	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6	917.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	4172.8	4172.8	4172.8	4172.8	4172.8
2.5°	4121.5	4141.3	4153.1	4169.0	4208.4
5°	3963.7	4038.7	4062.4	4121.5	4192.7
7.5°	3616.3	3845.3	3908.4	4050.5	4161.0
10°	3280.6	3509.6	3620.2	3955.7	4121.5
12.5°	3110.9	3245.2	3320.2	3790.0	4066.3
15°	3004.3	3099.1	3154.3	3568.9	4003.1
17.5°	2921.4	2988.5	3028.0	3351.7	3916.3
20°	2870.1	2901.6	2937.2	3193.8	3817.6
22.5°	2834.5	2814.8	2842.5	3083.3	3683.3
25°	2810.9	2735.9	2767.5	2996.5	3525.4
27.5°	2830.6	2664.8	2676.7	2917.5	3359.6
30°	2834.5	2577.9	2581.9	2834.5	3174.1
32.5°	2806.9	2487.1	2491.1	2731.9	2964.8
35°	2739.8	2380.5	2376.7	2613.5	2680.6
37.5°	2649.0	2266.1	2266.1	2483.2	2368.7
40°	2538.5	2151.6	2163.4	2313.4	2092.4
42.5°	2404.2	2029.2	2045.0	2088.4	1887.1
45°	2258.1	1910.7	1922.6	1764.7	1729.2
47.5°	2096.3	1788.4	1792.3	1464.6	1677.9
50°	1902.9	1662.0	1646.3	1255.5	1673.9
52.5°	1733.1	1523.9	1476.5	1136.9	1519.9
55°	1567.3	1377.8	1275.2	1046.2	1409.3
57.5°	1421.2	1188.3	1089.6	939.6	1385.7
60°	1287.0	1002.8	927.8	825.1	1271.2
62.5°	1176.5	864.6	848.8	746.1	1152.8
65°	1058.1	769.8	765.9	679.1	979.1
67.5°	943.5	706.7	702.7	615.8	746.1
70°	821.2	639.5	631.7	548.8	552.7
72.5°	694.8	564.5	556.7	493.5	458.0
75°	568.5	477.7	473.7	430.3	371.1
77.5°	446.1	379.0	386.8	347.4	272.4
80°	319.8	276.4	284.3	248.7	205.3
82.5°	213.1	181.6	189.5	157.9	138.1
85°	118.4	102.7	106.6	82.9	63.1
87.5°	55.3	47.4	47.4	31.6	19.7
90°	27.1	17.2	16.0	11.1	6.2
92.5°	167.0	118.8	108.4	66.4	24.6
95°	411.1	231.6	212.4	135.8	59.2
97.5°	553.9	254.4	237.4	169.8	102.2
100°	605.8	273.4	258.1	196.8	135.5
102.5°	629.6	292.5	278.2	221.0	163.8
105°	647.2	320.8	308.7	260.3	211.8
107.5°	650.6	362.7	351.5	306.3	261.2
110°	645.6	386.1	376.0	335.2	294.4



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CATALOG NUMBER: SQ4-FA-050U-100D-B2750-1D-UNV-STD-W-12-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	645.8	414.4	404.7	365.8	327.0
115°	651.8	457.0	448.0	412.1	376.3
117.5°	663.8	498.2	490.0	457.5	424.9
120°	673.7	522.2	514.5	484.0	453.3
122.5°	687.9	550.6	542.8	511.9	481.0
125°	707.1	586.9	579.9	551.7	523.5
127.5°	726.1	622.0	614.9	586.4	558.0
130°	740.0	645.4	637.7	607.2	576.5
132.5°	751.4	664.5	656.9	626.2	595.5
135°	763.6	686.6	679.7	651.8	623.9
137.5°	782.2	715.0	708.2	680.5	652.8
140°	793.4	734.1	727.7	702.3	676.8
142.5°	802.9	748.3	742.4	718.8	695.3
145°	815.2	769.8	764.6	744.1	723.6
147.5°	833.3	796.9	791.9	771.9	752.0
150°	842.7	811.0	806.6	788.4	770.4
152.5°	848.9	820.3	816.9	803.2	789.5
155°	862.4	840.6	838.1	828.0	817.8
157.5°	876.0	860.9	858.5	848.7	838.8
160°	882.2	870.2	868.3	860.6	853.0
162.5°	888.7	880.1	878.7	872.9	867.1
165°	898.1	894.2	892.9	887.7	882.6
167.5°	905.5	902.2	901.6	899.1	896.7
170°	911.6	911.4	910.8	908.4	906.0
172.5°	912.0	912.0	911.9	911.3	910.8
175°	915.7	917.6	917.6	917.6	917.6
177.5°	916.2	917.6	917.6	917.6	917.6
180°	917.6	917.6	917.6	917.6	917.6



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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	14.94	15.95	15.76	16.79	17.84	17.79	18.80	18.61	19.65	20.69
	3H	15.43	16.33	16.26	17.19	18.26	19.16	20.06	19.99	20.92	21.99
	4H	15.63	16.48	16.48	17.34	18.43	19.61	20.47	20.46	21.33	22.41
	6H	15.75	16.54	16.62	17.41	18.51	19.91	20.70	20.77	21.57	22.67
	8H	15.76	16.51	16.63	17.40	18.50	19.99	20.74	20.86	21.63	22.73
	12H	15.74	16.45	16.61	17.33	18.46	20.04	20.75	20.92	21.63	22.76
4H	2H	16.00	16.85	16.85	17.71	18.80	18.22	19.07	19.07	19.93	21.02
	3H	17.04	17.75	17.91	18.64	19.75	19.74	20.46	20.61	21.35	22.45
	4H	17.32	17.97	18.20	18.86	19.99	20.28	20.93	21.16	21.82	22.95
	6H	17.45	18.01	18.35	18.93	20.06	20.66	21.22	21.56	22.14	23.27
	8H	17.46	17.99	18.36	18.89	20.04	20.78	21.30	21.67	22.21	23.35
	12H	17.44	17.91	18.35	18.84	19.99	20.84	21.32	21.76	22.24	23.39
8H	4H	17.79	18.31	18.69	19.22	20.37	20.42	20.94	21.32	21.85	23.00
	6H	18.06	18.49	18.98	19.44	20.58	20.87	21.30	21.79	22.25	23.39
	8H	18.10	18.48	19.04	19.43	20.59	21.02	21.41	21.96	22.35	23.51
	12H	18.09	18.43	19.03	19.36	20.58	21.13	21.47	22.07	22.41	23.62
12H	4H	17.80	18.27	18.72	19.20	20.35	20.39	20.86	21.31	21.79	22.94
	6H	18.12	18.50	19.05	19.45	20.61	20.87	21.25	21.80	22.19	23.35
	8H	18.19	18.53	19.13	19.47	20.68	21.04	21.38	21.98	22.31	23.52