

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: P934243

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-2700K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934243
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-2700K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

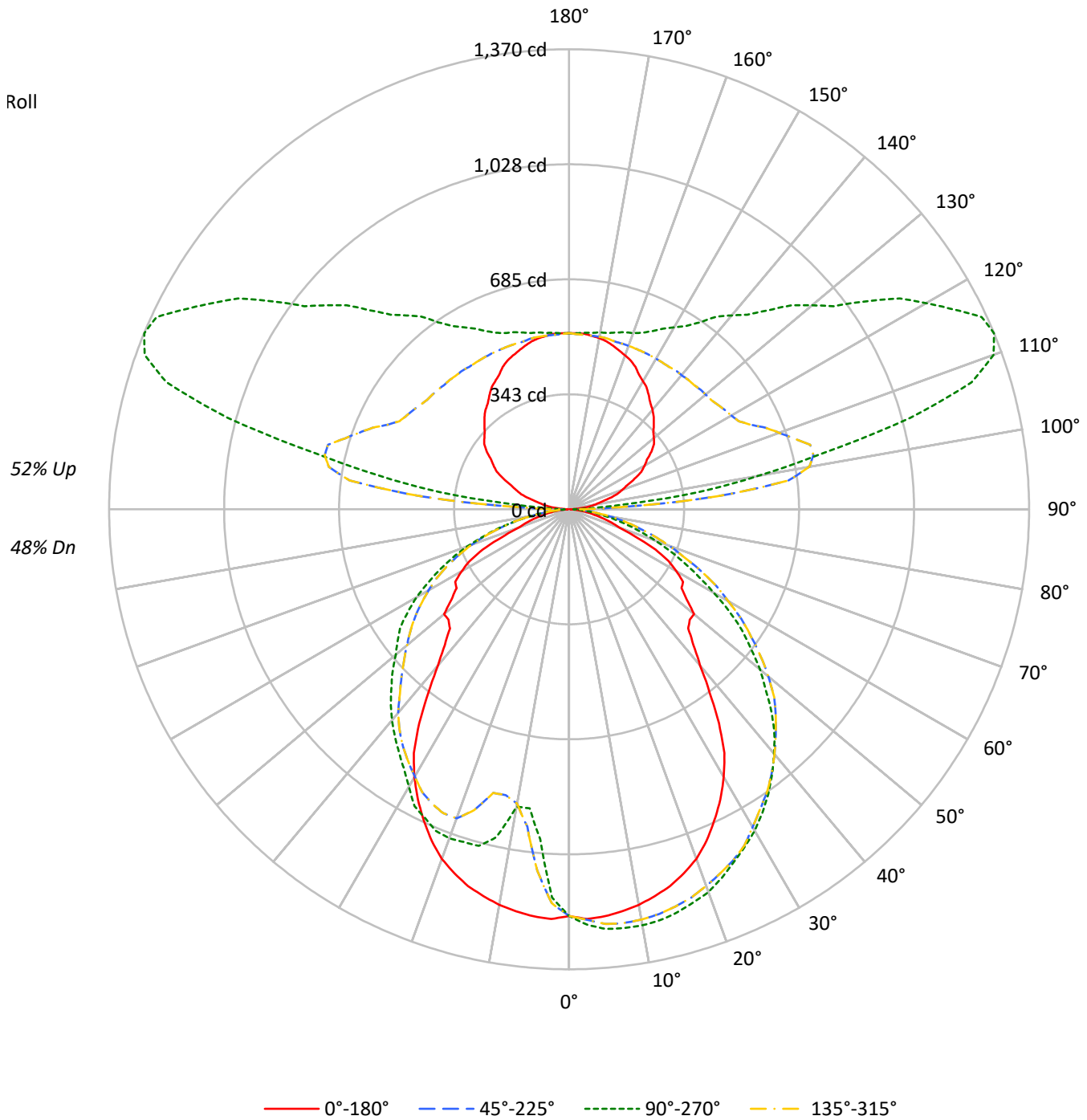
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6542.6 lumens
Efficiency: N/A
Efficacy: 115.2 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')
CIE Type: General Diffuse

Input Watts (W): 56.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-2700K

Luminous Intensity Polar Plot





TEST NUMBER: P934243

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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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48	48	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41	41	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34	34	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29	29	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25	25	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21	21	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19	19	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17	17	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15	15	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13	13	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12	12	12

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	5619	5619	5619	5619
5°	5660	5672	5660	4459
10°	5622	5587	5622	3994
15°	5561	5465	5561	4564
20°	5445	5322	5445	4573
25°	5207	5113	5207	4476
30°	4899	4940	4899	4264
35°	4368	4720	4368	4030
40°	3639	4461	3639	3853
45°	3252	4158	3252	3650
50°	3454	3798	3454	3446
55°	3250	3409	3250	3328
60°	3351	2895	3351	3048
65°	3038	2393	3038	2675
70°	2104	1907	2104	2242
75°	1845	1410	1845	1688
80°	1485	932	1485	1014
85°	857	494	857	419

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 4984 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.3	1.7
10°-20°	310.4	4.7
20°-30°	479.8	7.3
30°-40°	572.7	8.8
40°-50°	576.1	8.8
50°-60°	501.3	7.7
60°-70°	355.4	5.4
70°-80°	188.0	2.9
80°-90°	48.8	0.7
90°-100°	255.7	3.9
100°-110°	672.3	10.3
110°-120°	697.1	10.7
120°-130°	559.2	8.5
130°-140°	438.7	6.7
140°-150°	336.8	5.1
150°-160°	242.5	3.7
160°-170°	148.4	2.3
170°-180°	50.1	0.8
0°-30°	899.4	13.7
0°-40°	1472.2	22.5
0°-60°	2549.5	39.0
0°-90°	3141.8	48.0
90°-120°	1625.1	24.8
90°-150°	2959.8	45.2
90°-180°	3401.0	52.0
0°-180°	6542.6	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1211	1211	1211	1211	1211	
5°	1217	1254	1217	986	1217	115
15°	1162	1243	1162	1038	1162	327
25°	1023	1159	1023	1015	1023	470
35°	778	1034	778	883	778	481
45°	502	852	502	748	502	402
55°	409	629	409	614	409	376
65°	284	379	284	424	284	272
75°	108	180	108	215	108	113
85°	18	46	18	39	18	25
90°	4	13	4	13	4	4
95°	34	155	34	155	34	38
105°	121	1053	121	1053	121	128
115°	215	1356	215	1356	215	212
125°	299	1080	299	1080	299	266
135°	357	838	357	838	357	276
145°	414	680	414	680	414	259
155°	468	585	468	585	468	215
165°	504	545	504	545	504	142
175°	525	528	525	528	525	50
180°	525	525	525	525	525	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1221.2	1221.2	1228.2	1230.5	1230.5	1227.0	1223.5	1227.0	1237.3	1240.7	1239.6
5°	1216.7	1225.8	1238.5	1240.7	1243.0	1241.9	1239.6	1241.9	1253.3	1255.7	1256.8
7.5°	1207.5	1224.7	1240.7	1244.2	1247.6	1244.2	1243.0	1245.3	1256.8	1259.1	1259.1
10°	1196.0	1220.1	1238.5	1240.7	1244.2	1240.7	1240.7	1245.3	1256.8	1259.1	1260.2
12.5°	1180.0	1213.2	1230.5	1232.7	1237.3	1236.2	1235.0	1239.6	1251.0	1253.3	1253.3
15°	1161.7	1200.6	1216.7	1218.9	1227.0	1224.7	1224.7	1229.3	1241.9	1245.3	1244.2
17.5°	1136.5	1184.6	1203.0	1206.4	1212.1	1211.0	1212.1	1216.7	1228.2	1230.5	1231.6
20°	1107.8	1162.8	1184.6	1188.0	1193.7	1193.7	1193.7	1199.5	1211.0	1215.5	1215.5
22.5°	1068.9	1139.9	1162.8	1165.1	1172.0	1172.0	1174.3	1182.3	1192.6	1193.7	1193.7
25°	1023.1	1114.7	1134.2	1141.0	1147.9	1151.4	1154.8	1159.4	1162.8	1161.7	1162.8
27.5°	975.0	1082.6	1107.8	1112.4	1121.6	1125.1	1129.6	1130.8	1131.9	1135.3	1133.1
30°	921.1	1037.9	1075.8	1080.4	1095.2	1097.6	1092.9	1095.2	1101.0	1103.3	1105.6
32.5°	860.4	971.5	1042.5	1052.9	1066.6	1059.7	1058.6	1062.0	1071.2	1071.2	1073.5
35°	777.9	920.0	1011.6	1020.8	1031.1	1023.1	1027.7	1028.8	1034.5	1037.9	1036.8
37.5°	687.4	875.3	979.5	986.4	994.5	984.1	991.0	994.5	999.0	996.7	996.7
40°	607.2	805.4	941.8	946.3	953.2	945.2	952.0	954.3	956.6	954.3	953.2
42.5°	547.6	728.7	901.6	907.3	902.7	908.5	910.8	915.4	912.0	907.3	907.3
45°	501.8	708.0	858.1	865.0	858.1	867.3	870.7	870.7	860.4	858.1	856.9
47.5°	486.9	666.7	814.6	814.6	811.1	822.6	828.3	820.3	810.0	806.6	806.6
50°	485.7	621.0	755.0	750.4	766.4	780.2	774.4	766.4	758.4	745.8	745.8
52.5°	441.1	564.8	678.3	695.4	720.6	728.7	719.4	711.5	697.7	691.9	687.4
55°	409.0	506.4	608.3	642.7	669.0	679.4	662.2	654.2	633.5	630.1	627.8
57.5°	402.1	421.6	544.2	587.7	619.8	618.6	608.3	593.4	576.3	572.9	571.7
60°	368.9	304.8	475.4	527.0	560.2	556.8	547.6	533.8	517.9	515.6	513.2
62.5°	334.6	221.1	397.5	455.9	502.9	501.8	493.8	473.2	461.7	455.9	451.4
65°	284.1	185.6	283.0	379.2	446.8	449.1	431.9	417.0	404.4	397.5	396.4
67.5°	216.5	151.3	191.3	316.2	393.0	390.7	368.9	362.1	346.0	342.6	335.7
70°	160.4	100.8	132.9	256.7	340.3	334.6	317.3	309.4	294.4	286.4	281.9
72.5°	132.9	81.3	97.4	199.4	286.4	279.6	264.6	255.5	242.9	236.0	231.4
75°	107.7	85.9	74.5	147.8	232.6	228.0	214.2	205.1	194.7	185.6	186.7
77.5°	79.1	80.2	59.5	108.8	184.5	177.6	169.5	158.1	153.5	144.3	144.3
80°	59.5	63.0	44.7	74.5	132.9	132.9	126.0	118.0	110.0	105.4	105.4
82.5°	40.1	40.1	33.2	47.0	90.5	87.0	82.5	80.2	75.6	73.3	73.3
85°	18.4	22.9	20.6	28.6	49.3	51.6	51.6	49.3	48.1	45.9	47.0
87.5°	5.7	10.3	12.6	16.1	25.2	26.4	27.5	27.5	27.5	28.6	28.6
90°	3.5	6.3	9.1	9.8	15.5	23.0	26.7	23.7	17.9	13.4	13.4
92.5°	14.1	38.0	62.0	68.0	95.6	132.3	150.7	132.0	94.8	66.9	64.2
95°	33.8	77.6	121.5	132.4	235.1	372.0	440.5	393.1	298.3	227.1	219.1
97.5°	58.4	97.0	135.7	145.4	316.6	544.9	659.1	629.2	569.2	524.3	508.9
100°	77.5	112.5	147.5	156.3	346.3	599.7	726.4	728.6	732.9	736.2	717.9
102.5°	93.7	126.4	159.0	167.2	359.9	616.9	745.4	783.6	859.9	917.2	901.5
105°	121.1	148.8	176.5	183.5	370.1	618.9	743.3	828.8	1000.1	1128.5	1120.0
107.5°	149.3	175.1	200.9	207.4	371.9	591.3	701.0	820.4	1059.2	1238.3	1240.4
110°	168.3	191.6	215.0	220.8	369.2	566.9	665.8	799.3	1066.2	1266.4	1275.2



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	187.0	209.2	231.4	236.9	369.2	545.6	633.8	770.3	1043.6	1248.5	1262.0
115°	215.2	235.7	256.2	261.3	372.7	521.2	595.4	727.0	990.2	1187.6	1206.2
117.5°	242.9	261.5	280.2	284.9	379.6	505.8	568.9	687.7	925.3	1103.4	1124.1
120°	259.1	276.7	294.2	298.6	385.2	500.7	558.4	666.9	883.9	1046.7	1066.8
122.5°	274.9	292.6	310.3	314.7	393.2	498.0	550.3	648.0	843.5	990.1	1009.9
125°	299.3	315.3	331.5	335.5	404.2	495.7	541.5	624.5	790.6	915.1	933.4
127.5°	319.0	335.2	351.5	355.6	415.1	494.5	534.1	605.4	748.0	854.9	870.3
130°	329.5	347.0	364.6	369.0	423.0	495.2	531.3	594.7	721.7	816.8	831.1
132.5°	340.5	358.0	375.6	379.9	429.5	495.7	528.9	585.7	699.3	784.4	797.2
135°	356.7	372.7	388.5	392.6	436.5	495.2	524.6	572.2	667.3	738.6	749.7
137.5°	373.3	389.1	404.9	408.8	447.1	498.3	523.9	564.2	644.6	704.9	713.9
140°	386.9	401.5	416.0	419.7	453.6	498.8	521.4	556.2	625.6	677.8	686.1
142.5°	397.5	410.9	424.4	427.7	459.0	500.6	521.4	551.9	613.0	658.8	666.0
145°	413.7	425.4	437.2	440.1	466.1	500.7	517.9	542.9	592.9	630.3	635.7
147.5°	429.9	441.3	452.8	455.6	476.3	504.1	517.9	537.6	576.8	606.3	610.8
150°	440.5	450.8	461.1	463.7	481.8	505.9	517.9	534.5	567.7	592.6	596.3
152.5°	451.4	459.3	467.0	469.0	485.3	507.1	517.9	532.1	560.4	581.7	584.5
155°	467.5	473.4	479.2	480.6	493.1	509.7	517.9	529.2	551.7	568.6	570.5
157.5°	479.5	485.1	490.8	492.2	500.8	512.2	517.9	526.7	544.2	557.3	558.6
160°	487.6	492.1	496.4	497.5	504.4	513.4	517.9	525.5	540.4	551.7	552.4
162.5°	495.7	499.1	502.3	503.2	508.1	514.7	517.9	524.3	537.0	546.5	547.2
165°	504.5	507.5	510.4	511.2	513.4	516.4	517.9	522.5	531.5	538.4	539.1
167.5°	512.6	514.0	515.5	515.8	517.7	520.2	521.4	524.4	530.4	534.9	535.2
170°	517.9	519.3	520.8	521.1	521.2	521.4	521.4	524.4	530.4	534.9	534.9
172.5°	520.8	521.1	521.4	521.4	521.4	521.4	521.4	523.8	528.5	532.0	531.8
175°	524.6	524.6	524.6	524.6	523.6	522.1	521.4	522.9	525.9	528.1	528.1
177.5°	524.6	524.6	524.6	524.6	523.8	522.6	522.1	523.3	525.6	527.4	527.1
180°	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1241.9	1238.5	1241.9	1239.6	1240.7	1237.3	1227.0	1223.5	1227.0	1230.5	1230.5
5°	1256.8	1254.5	1256.8	1256.8	1255.7	1253.3	1241.9	1239.6	1241.9	1243.0	1240.7
7.5°	1261.4	1258.0	1261.4	1259.1	1259.1	1256.8	1245.3	1243.0	1244.2	1247.6	1244.2
10°	1261.4	1258.0	1261.4	1260.2	1259.1	1256.8	1245.3	1240.7	1240.7	1244.2	1240.7
12.5°	1255.7	1253.3	1255.7	1253.3	1253.3	1251.0	1239.6	1235.0	1236.2	1237.3	1232.7
15°	1246.4	1243.0	1246.4	1244.2	1245.3	1241.9	1229.3	1224.7	1224.7	1227.0	1218.9
17.5°	1232.7	1228.2	1232.7	1231.6	1230.5	1228.2	1216.7	1212.1	1211.0	1212.1	1206.4
20°	1216.7	1213.2	1216.7	1215.5	1215.5	1211.0	1199.5	1193.7	1193.7	1193.7	1188.0
22.5°	1191.5	1188.0	1191.5	1193.7	1193.7	1192.6	1182.3	1174.3	1172.0	1172.0	1165.1
25°	1162.8	1159.4	1162.8	1162.8	1161.7	1162.8	1159.4	1154.8	1151.4	1147.9	1141.0
27.5°	1135.3	1133.1	1135.3	1133.1	1135.3	1131.9	1130.8	1129.6	1125.1	1121.6	1112.4
30°	1107.8	1105.6	1107.8	1105.6	1103.3	1101.0	1095.2	1092.9	1097.6	1095.2	1080.4
32.5°	1073.5	1071.2	1073.5	1073.5	1071.2	1071.2	1062.0	1058.6	1059.7	1066.6	1052.9
35°	1037.9	1034.5	1037.9	1036.8	1037.9	1034.5	1028.8	1027.7	1023.1	1031.1	1020.8
37.5°	996.7	993.3	996.7	996.7	996.7	999.0	994.5	991.0	984.1	994.5	986.4
40°	954.3	949.7	954.3	953.2	954.3	956.6	954.3	952.0	945.2	953.2	946.3
42.5°	906.2	905.0	906.2	907.3	907.3	912.0	915.4	910.8	908.5	902.7	907.3
45°	854.6	852.3	854.6	856.9	858.1	860.4	870.7	870.7	867.3	858.1	865.0
47.5°	799.6	793.9	799.6	806.6	806.6	810.0	820.3	828.3	822.6	811.1	814.6
50°	741.2	742.4	741.2	745.8	745.8	758.4	766.4	774.4	780.2	766.4	750.4
52.5°	684.0	682.8	684.0	687.4	691.9	697.7	711.5	719.4	728.7	720.6	695.4
55°	626.7	629.0	626.7	627.8	630.1	633.5	654.2	662.2	679.4	669.0	642.7
57.5°	569.4	565.9	569.4	571.7	572.9	576.3	593.4	608.3	618.6	619.8	587.7
60°	502.9	498.4	502.9	513.2	515.6	517.9	533.8	547.6	556.8	560.2	527.0
62.5°	444.5	436.5	444.5	451.4	455.9	461.7	473.2	493.8	501.8	502.9	455.9
65°	382.6	379.2	382.6	396.4	397.5	404.4	417.0	431.9	449.1	446.8	379.2
67.5°	326.5	326.5	326.5	335.7	342.6	346.0	362.1	368.9	390.7	393.0	316.2
70°	274.9	273.8	274.9	281.9	286.4	294.4	309.4	317.3	334.6	340.3	256.7
72.5°	225.7	224.6	225.7	231.4	236.0	242.9	255.5	264.6	279.6	286.4	199.4
75°	182.2	179.9	182.2	186.7	185.6	194.7	205.1	214.2	228.0	232.6	147.8
77.5°	139.7	139.7	139.7	144.3	144.3	153.5	158.1	169.5	177.6	184.5	108.8
80°	104.3	103.1	104.3	105.4	105.4	110.0	118.0	126.0	132.9	132.9	74.5
82.5°	73.3	71.1	73.3	73.3	73.3	75.6	80.2	82.5	87.0	90.5	47.0
85°	45.9	45.9	45.9	47.0	45.9	48.1	49.3	51.6	51.6	49.3	28.6
87.5°	29.8	28.6	29.8	28.6	28.6	27.5	27.5	27.5	26.4	25.2	16.1
90°	13.4	13.4	13.4	13.4	13.4	17.9	23.7	26.7	23.0	15.5	9.8
92.5°	53.6	43.0	53.6	64.2	66.9	94.8	132.0	150.7	132.3	95.6	68.0
95°	186.8	154.6	186.8	219.1	227.1	298.3	393.1	440.5	372.0	235.1	132.4
97.5°	447.6	386.2	447.6	508.9	524.3	569.2	629.2	659.1	544.9	316.6	145.4
100°	644.9	571.8	644.9	717.9	736.2	732.9	728.6	726.4	599.7	346.3	156.3
102.5°	838.9	776.3	838.9	901.5	917.2	859.9	783.6	745.4	616.9	359.9	167.2
105°	1086.4	1052.7	1086.4	1120.0	1128.5	1000.1	828.8	743.3	618.9	370.1	183.5
107.5°	1248.5	1256.6	1248.5	1240.4	1238.3	1059.2	820.4	701.0	591.3	371.9	207.4
110°	1310.2	1345.3	1310.2	1275.2	1266.4	1066.2	799.3	665.8	566.9	369.2	220.8



TEST NUMBER: P934243

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1315.8	1369.6	1315.8	1262.0	1248.5	1043.6	770.3	633.8	545.6	369.2	236.9
115°	1280.9	1355.5	1280.9	1206.2	1187.6	990.2	727.0	595.4	521.2	372.7	261.3
117.5°	1207.0	1289.7	1207.0	1124.1	1103.4	925.3	687.7	568.9	505.8	379.6	284.9
120°	1147.3	1227.7	1147.3	1066.8	1046.7	883.9	666.9	558.4	500.7	385.2	298.6
122.5°	1089.3	1168.6	1089.3	1009.9	990.1	843.5	648.0	550.3	498.0	393.2	314.7
125°	1006.4	1079.5	1006.4	933.4	915.1	790.6	624.5	541.5	495.7	404.2	335.5
127.5°	931.9	993.6	931.9	870.3	854.9	748.0	605.4	534.1	494.5	415.1	355.6
130°	888.0	945.0	888.0	831.1	816.8	721.7	594.7	531.3	495.2	423.0	369.0
132.5°	848.2	899.2	848.2	797.2	784.4	699.3	585.7	528.9	495.7	429.5	379.9
135°	793.7	837.6	793.7	749.7	738.6	667.3	572.2	524.6	495.2	436.5	392.6
137.5°	749.9	785.9	749.9	713.9	704.9	644.6	564.2	523.9	498.3	447.1	408.8
140°	719.8	753.4	719.8	686.1	677.8	625.6	556.2	521.4	498.8	453.6	419.7
142.5°	694.9	723.9	694.9	666.0	658.8	613.0	551.9	521.4	500.6	459.0	427.7
145°	657.7	679.5	657.7	635.7	630.3	592.9	542.9	517.9	500.7	466.1	440.1
147.5°	629.0	647.2	629.0	610.8	606.3	576.8	537.6	517.9	504.1	476.3	455.6
150°	611.0	625.6	611.0	596.3	592.6	567.7	534.5	517.9	505.9	481.8	463.7
152.5°	595.6	606.7	595.6	584.5	581.7	560.4	532.1	517.9	507.1	485.3	469.0
155°	577.8	585.2	577.8	570.5	568.6	551.7	529.2	517.9	509.7	493.1	480.6
157.5°	563.8	568.9	563.8	558.6	557.3	544.2	526.7	517.9	512.2	500.8	492.2
160°	555.4	558.4	555.4	552.4	551.7	540.4	525.5	517.9	513.4	504.4	497.5
162.5°	550.0	552.8	550.0	547.2	546.5	537.0	524.3	517.9	514.7	508.1	503.2
165°	542.0	545.0	542.0	539.1	538.4	531.5	522.5	517.9	516.4	513.4	511.2
167.5°	536.4	537.7	536.4	535.2	534.9	530.4	524.4	521.4	520.2	517.7	515.8
170°	534.9	534.9	534.9	534.9	534.9	530.4	524.4	521.4	521.4	521.2	521.1
172.5°	530.7	529.6	530.7	531.8	532.0	528.5	523.8	521.4	521.4	521.4	521.4
175°	528.1	528.1	528.1	528.1	528.1	525.9	522.9	521.4	522.1	523.6	524.6
177.5°	525.9	524.6	525.9	527.1	527.4	525.6	523.3	522.1	522.6	523.8	524.6
180°	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6



TEST NUMBER: P934243

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1228.2	1221.2	1221.2	1209.8	1205.3	1201.8	1196.0	1178.9	1174.3	1169.7	1176.6
5°	1238.5	1225.8	1216.7	1196.0	1178.9	1172.0	1150.3	1109.0	1081.5	1060.8	1049.4
7.5°	1240.7	1224.7	1207.5	1175.5	1134.2	1115.8	1049.4	973.8	953.2	934.8	923.4
10°	1238.5	1220.1	1196.0	1147.9	1050.6	1018.5	952.0	902.7	890.2	886.8	890.2
12.5°	1230.5	1213.2	1180.0	1099.9	963.5	941.8	902.7	874.1	871.8	877.5	908.5
15°	1216.7	1200.6	1161.7	1035.6	915.4	899.3	871.8	861.6	874.1	914.3	1007.0
17.5°	1203.0	1184.6	1136.5	972.7	878.7	867.3	847.8	868.4	939.5	993.3	1024.2
20°	1184.6	1162.8	1107.8	926.8	852.3	842.1	832.9	925.7	979.5	999.0	1016.2
22.5°	1162.8	1139.9	1068.9	894.8	824.8	816.9	822.6	957.7	979.5	993.3	1008.1
25°	1134.2	1114.7	1023.1	869.6	803.1	793.9	815.7	954.3	967.0	970.4	1000.2
27.5°	1107.8	1082.6	975.0	846.6	776.7	773.3	821.4	939.5	948.6	952.0	984.1
30°	1075.8	1037.9	921.1	822.6	749.2	748.1	822.6	921.1	918.8	928.0	960.0
32.5°	1042.5	971.5	860.4	792.8	722.9	721.7	814.6	893.6	891.3	903.9	928.0
35°	1011.6	920.0	777.9	758.4	689.7	690.8	795.1	861.6	862.7	874.1	889.1
37.5°	979.5	875.3	687.4	720.6	657.6	657.6	768.7	831.7	829.4	832.9	853.5
40°	941.8	805.4	607.2	671.3	627.8	624.4	736.7	799.6	791.6	790.5	819.1
42.5°	901.6	728.7	547.6	606.1	593.4	588.8	697.7	760.7	745.8	749.2	785.9
45°	858.1	708.0	501.8	512.1	557.9	554.5	655.3	716.0	705.7	714.9	752.7
47.5°	814.6	666.7	486.9	425.0	520.2	519.0	608.3	672.5	666.7	676.0	716.0
50°	755.0	621.0	485.7	364.3	477.7	482.3	552.2	630.1	630.1	638.1	680.5
52.5°	678.3	564.8	441.1	329.9	428.4	442.2	502.9	593.4	595.8	603.8	641.5
55°	608.3	506.4	409.0	303.6	370.0	399.8	454.8	555.6	560.2	568.3	602.6
57.5°	544.2	421.6	402.1	272.6	316.2	344.8	412.5	519.0	521.3	528.1	561.3
60°	475.4	304.8	368.9	239.4	269.2	291.0	373.5	475.4	483.4	488.0	516.7
62.5°	397.5	221.1	334.6	216.5	246.3	250.9	341.4	434.2	444.5	448.0	465.2
65°	283.0	185.6	284.1	197.0	222.2	223.4	307.1	391.8	401.0	406.7	419.3
67.5°	191.3	151.3	216.5	178.7	204.0	205.1	273.8	342.6	355.1	359.8	367.8
70°	132.9	100.8	160.4	159.2	183.3	185.6	238.3	297.8	309.4	312.8	317.3
72.5°	97.4	81.3	132.9	143.2	161.5	163.8	201.7	247.4	258.9	262.4	264.6
75°	74.5	85.9	107.7	124.9	137.5	138.6	164.9	201.7	209.7	211.9	213.1
77.5°	59.5	80.2	79.1	100.8	112.2	110.0	129.5	155.8	162.7	162.7	162.7
80°	44.7	63.0	59.5	72.2	82.5	80.2	92.8	111.1	113.4	115.7	114.5
82.5°	33.2	40.1	40.1	45.9	55.0	52.7	61.8	72.2	72.2	72.2	74.5
85°	20.6	22.9	18.4	24.1	30.9	29.8	34.3	38.9	40.1	40.1	37.8
87.5°	12.6	10.3	5.7	9.1	13.8	13.8	16.1	17.2	16.1	16.1	16.1
90°	9.1	6.3	3.5	6.3	9.1	9.8	15.5	23.0	26.7	23.7	17.9
92.5°	62.0	38.0	14.1	38.0	62.0	68.0	95.6	132.3	150.7	132.0	94.8
95°	121.5	77.6	33.8	77.6	121.5	132.4	235.1	372.0	440.5	393.1	298.3
97.5°	135.7	97.0	58.4	97.0	135.7	145.4	316.6	544.9	659.1	629.2	569.2
100°	147.5	112.5	77.5	112.5	147.5	156.3	346.3	599.7	726.4	728.6	732.9
102.5°	159.0	126.4	93.7	126.4	159.0	167.2	359.9	616.9	745.4	783.6	859.9
105°	176.5	148.8	121.1	148.8	176.5	183.5	370.1	618.9	743.3	828.8	1000.1
107.5°	200.9	175.1	149.3	175.1	200.9	207.4	371.9	591.3	701.0	820.4	1059.2
110°	215.0	191.6	168.3	191.6	215.0	220.8	369.2	566.9	665.8	799.3	1066.2



TEST NUMBER: P934243

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	231.4	209.2	187.0	209.2	231.4	236.9	369.2	545.6	633.8	770.3	1043.6
115°	256.2	235.7	215.2	235.7	256.2	261.3	372.7	521.2	595.4	727.0	990.2
117.5°	280.2	261.5	242.9	261.5	280.2	284.9	379.6	505.8	568.9	687.7	925.3
120°	294.2	276.7	259.1	276.7	294.2	298.6	385.2	500.7	558.4	666.9	883.9
122.5°	310.3	292.6	274.9	292.6	310.3	314.7	393.2	498.0	550.3	648.0	843.5
125°	331.5	315.3	299.3	315.3	331.5	335.5	404.2	495.7	541.5	624.5	790.6
127.5°	351.5	335.2	319.0	335.2	351.5	355.6	415.1	494.5	534.1	605.4	748.0
130°	364.6	347.0	329.5	347.0	364.6	369.0	423.0	495.2	531.3	594.7	721.7
132.5°	375.6	358.0	340.5	358.0	375.6	379.9	429.5	495.7	528.9	585.7	699.3
135°	388.5	372.7	356.7	372.7	388.5	392.6	436.5	495.2	524.6	572.2	667.3
137.5°	404.9	389.1	373.3	389.1	404.9	408.8	447.1	498.3	523.9	564.2	644.6
140°	416.0	401.5	386.9	401.5	416.0	419.7	453.6	498.8	521.4	556.2	625.6
142.5°	424.4	410.9	397.5	410.9	424.4	427.7	459.0	500.6	521.4	551.9	613.0
145°	437.2	425.4	413.7	425.4	437.2	440.1	466.1	500.7	517.9	542.9	592.9
147.5°	452.8	441.3	429.9	441.3	452.8	455.6	476.3	504.1	517.9	537.6	576.8
150°	461.1	450.8	440.5	450.8	461.1	463.7	481.8	505.9	517.9	534.5	567.7
152.5°	467.0	459.3	451.4	459.3	467.0	469.0	485.3	507.1	517.9	532.1	560.4
155°	479.2	473.4	467.5	473.4	479.2	480.6	493.1	509.7	517.9	529.2	551.7
157.5°	490.8	485.1	479.5	485.1	490.8	492.2	500.8	512.2	517.9	526.7	544.2
160°	496.4	492.1	487.6	492.1	496.4	497.5	504.4	513.4	517.9	525.5	540.4
162.5°	502.3	499.1	495.7	499.1	502.3	503.2	508.1	514.7	517.9	524.3	537.0
165°	510.4	507.5	504.5	507.5	510.4	511.2	513.4	516.4	517.9	522.5	531.5
167.5°	515.5	514.0	512.6	514.0	515.5	515.8	517.7	520.2	521.4	524.4	530.4
170°	520.8	519.3	517.9	519.3	520.8	521.1	521.2	521.4	521.4	524.4	530.4
172.5°	521.4	521.1	520.8	521.1	521.4	521.4	521.4	521.4	521.4	523.8	528.5
175°	524.6	524.6	524.6	524.6	524.6	524.6	523.6	522.1	521.4	522.9	525.9
177.5°	524.6	524.6	524.6	524.6	524.6	524.6	523.8	522.6	522.1	523.3	525.6
180°	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6



TEST NUMBER: P934243

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1168.5	1165.1	1169.7	1157.1	1169.7	1165.1	1168.5	1176.6	1169.7	1174.3	1178.9
5°	1025.4	1019.7	1001.3	986.4	1001.3	1019.7	1025.4	1049.4	1060.8	1081.5	1109.0
7.5°	916.5	912.0	907.3	898.2	907.3	912.0	916.5	923.4	934.8	953.2	973.8
10°	892.5	893.6	900.5	899.3	900.5	893.6	892.5	890.2	886.8	890.2	902.7
12.5°	954.3	964.7	1002.4	1000.2	1002.4	964.7	954.3	908.5	877.5	871.8	874.1
15°	1025.4	1028.8	1036.8	1037.9	1036.8	1028.8	1025.4	1007.0	914.3	874.1	861.6
17.5°	1032.2	1033.4	1039.1	1039.1	1039.1	1033.4	1032.2	1024.2	993.3	939.5	868.4
20°	1026.5	1028.8	1040.2	1042.5	1040.2	1028.8	1026.5	1016.2	999.0	979.5	925.7
22.5°	1024.2	1028.8	1037.9	1036.8	1037.9	1028.8	1024.2	1008.1	993.3	979.5	957.7
25°	1012.7	1012.7	1013.9	1015.0	1013.9	1012.7	1012.7	1000.2	970.4	967.0	954.3
27.5°	988.7	991.0	997.9	996.7	997.9	991.0	988.7	984.1	952.0	948.6	939.5
30°	967.0	964.7	958.9	954.3	958.9	964.7	967.0	960.0	928.0	918.8	921.1
32.5°	930.2	924.5	918.8	915.4	918.8	924.5	930.2	928.0	903.9	891.3	893.6
35°	886.8	887.9	886.8	883.3	886.8	887.9	886.8	889.1	874.1	862.7	861.6
37.5°	855.8	858.1	856.9	852.3	856.9	858.1	855.8	853.5	832.9	829.4	831.7
40°	823.7	824.8	823.7	820.3	823.7	824.8	823.7	819.1	790.5	791.6	799.6
42.5°	792.8	791.6	788.2	785.9	788.2	791.6	792.8	785.9	749.2	745.8	760.7
45°	757.3	758.4	751.5	748.1	751.5	758.4	757.3	752.7	714.9	705.7	716.0
47.5°	721.7	721.7	716.0	712.6	716.0	721.7	721.7	716.0	676.0	666.7	672.5
50°	684.0	682.8	674.8	673.7	674.8	682.8	684.0	680.5	638.1	630.1	630.1
52.5°	640.4	640.4	641.5	643.8	641.5	640.4	640.4	641.5	603.8	595.8	593.4
55°	602.6	603.8	611.8	614.0	611.8	603.8	602.6	602.6	568.3	560.2	555.6
57.5°	563.6	563.6	569.4	569.4	569.4	563.6	563.6	561.3	528.1	521.3	519.0
60°	519.0	521.3	525.9	524.7	525.9	521.3	519.0	516.7	488.0	483.4	475.4
62.5°	472.0	474.3	475.4	473.2	475.4	474.3	472.0	465.2	448.0	444.5	434.2
65°	422.7	425.0	426.2	423.9	426.2	425.0	422.7	419.3	406.7	401.0	391.8
67.5°	372.3	371.2	370.0	374.6	370.0	371.2	372.3	367.8	359.8	355.1	342.6
70°	320.8	320.8	319.6	321.9	319.6	320.8	320.8	317.3	312.8	309.4	297.8
72.5°	265.8	264.6	269.2	265.8	269.2	264.6	265.8	264.6	262.4	258.9	247.4
75°	211.9	214.2	211.9	215.4	211.9	214.2	211.9	213.1	211.9	209.7	201.7
77.5°	161.5	163.8	161.5	161.5	161.5	163.8	161.5	162.7	162.7	162.7	155.8
80°	114.5	113.4	113.4	112.2	113.4	113.4	114.5	114.5	115.7	113.4	111.1
82.5°	73.3	72.2	72.2	74.5	72.2	72.2	73.3	74.5	72.2	72.2	72.2
85°	40.1	41.3	38.9	38.9	38.9	41.3	40.1	37.8	40.1	40.1	38.9
87.5°	14.9	13.8	13.8	13.8	13.8	13.8	14.9	16.1	16.1	16.1	17.2
90°	13.4	13.4	13.4	13.4	13.4	13.4	13.4	17.9	23.7	26.7	23.0
92.5°	66.9	64.2	53.6	43.0	53.6	64.2	66.9	94.8	132.0	150.7	132.3
95°	227.1	219.1	186.8	154.6	186.8	219.1	227.1	298.3	393.1	440.5	372.0
97.5°	524.3	508.9	447.6	386.2	447.6	508.9	524.3	569.2	629.2	659.1	544.9
100°	736.2	717.9	644.9	571.8	644.9	717.9	736.2	732.9	728.6	726.4	599.7
102.5°	917.2	901.5	838.9	776.3	838.9	901.5	917.2	859.9	783.6	745.4	616.9
105°	1128.5	1120.0	1086.4	1052.7	1086.4	1120.0	1128.5	1000.1	828.8	743.3	618.9
107.5°	1238.3	1240.4	1248.5	1256.6	1248.5	1240.4	1238.3	1059.2	820.4	701.0	591.3
110°	1266.4	1275.2	1310.2	1345.3	1310.2	1275.2	1266.4	1066.2	799.3	665.8	566.9



TEST NUMBER: P934243

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1248.5	1262.0	1315.8	1369.6	1315.8	1262.0	1248.5	1043.6	770.3	633.8	545.6
115°	1187.6	1206.2	1280.9	1355.5	1280.9	1206.2	1187.6	990.2	727.0	595.4	521.2
117.5°	1103.4	1124.1	1207.0	1289.7	1207.0	1124.1	1103.4	925.3	687.7	568.9	505.8
120°	1046.7	1066.8	1147.3	1227.7	1147.3	1066.8	1046.7	883.9	666.9	558.4	500.7
122.5°	990.1	1009.9	1089.3	1168.6	1089.3	1009.9	990.1	843.5	648.0	550.3	498.0
125°	915.1	933.4	1006.4	1079.5	1006.4	933.4	915.1	790.6	624.5	541.5	495.7
127.5°	854.9	870.3	931.9	993.6	931.9	870.3	854.9	748.0	605.4	534.1	494.5
130°	816.8	831.1	888.0	945.0	888.0	831.1	816.8	721.7	594.7	531.3	495.2
132.5°	784.4	797.2	848.2	899.2	848.2	797.2	784.4	699.3	585.7	528.9	495.7
135°	738.6	749.7	793.7	837.6	793.7	749.7	738.6	667.3	572.2	524.6	495.2
137.5°	704.9	713.9	749.9	785.9	749.9	713.9	704.9	644.6	564.2	523.9	498.3
140°	677.8	686.1	719.8	753.4	719.8	686.1	677.8	625.6	556.2	521.4	498.8
142.5°	658.8	666.0	694.9	723.9	694.9	666.0	658.8	613.0	551.9	521.4	500.6
145°	630.3	635.7	657.7	679.5	657.7	635.7	630.3	592.9	542.9	517.9	500.7
147.5°	606.3	610.8	629.0	647.2	629.0	610.8	606.3	576.8	537.6	517.9	504.1
150°	592.6	596.3	611.0	625.6	611.0	596.3	592.6	567.7	534.5	517.9	505.9
152.5°	581.7	584.5	595.6	606.7	595.6	584.5	581.7	560.4	532.1	517.9	507.1
155°	568.6	570.5	577.8	585.2	577.8	570.5	568.6	551.7	529.2	517.9	509.7
157.5°	557.3	558.6	563.8	568.9	563.8	558.6	557.3	544.2	526.7	517.9	512.2
160°	551.7	552.4	555.4	558.4	555.4	552.4	551.7	540.4	525.5	517.9	513.4
162.5°	546.5	547.2	550.0	552.8	550.0	547.2	546.5	537.0	524.3	517.9	514.7
165°	538.4	539.1	542.0	545.0	542.0	539.1	538.4	531.5	522.5	517.9	516.4
167.5°	534.9	535.2	536.4	537.7	536.4	535.2	534.9	530.4	524.4	521.4	520.2
170°	534.9	534.9	534.9	534.9	534.9	534.9	534.9	530.4	524.4	521.4	521.4
172.5°	532.0	531.8	530.7	529.6	530.7	531.8	532.0	528.5	523.8	521.4	521.4
175°	528.1	528.1	528.1	528.1	528.1	528.1	528.1	525.9	522.9	521.4	522.1
177.5°	527.4	527.1	525.9	524.6	525.9	527.1	527.4	525.6	523.3	522.1	522.6
180°	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6	524.6



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1196.0	1201.8	1205.3	1209.8	1221.2
5°	1150.3	1172.0	1178.9	1196.0	1216.7
7.5°	1049.4	1115.8	1134.2	1175.5	1207.5
10°	952.0	1018.5	1050.6	1147.9	1196.0
12.5°	902.7	941.8	963.5	1099.9	1180.0
15°	871.8	899.3	915.4	1035.6	1161.7
17.5°	847.8	867.3	878.7	972.7	1136.5
20°	832.9	842.1	852.3	926.8	1107.8
22.5°	822.6	816.9	824.8	894.8	1068.9
25°	815.7	793.9	803.1	869.6	1023.1
27.5°	821.4	773.3	776.7	846.6	975.0
30°	822.6	748.1	749.2	822.6	921.1
32.5°	814.6	721.7	722.9	792.8	860.4
35°	795.1	690.8	689.7	758.4	777.9
37.5°	768.7	657.6	657.6	720.6	687.4
40°	736.7	624.4	627.8	671.3	607.2
42.5°	697.7	588.8	593.4	606.1	547.6
45°	655.3	554.5	557.9	512.1	501.8
47.5°	608.3	519.0	520.2	425.0	486.9
50°	552.2	482.3	477.7	364.3	485.7
52.5°	502.9	442.2	428.4	329.9	441.1
55°	454.8	399.8	370.0	303.6	409.0
57.5°	412.5	344.8	316.2	272.6	402.1
60°	373.5	291.0	269.2	239.4	368.9
62.5°	341.4	250.9	246.3	216.5	334.6
65°	307.1	223.4	222.2	197.0	284.1
67.5°	273.8	205.1	204.0	178.7	216.5
70°	238.3	185.6	183.3	159.2	160.4
72.5°	201.7	163.8	161.5	143.2	132.9
75°	164.9	138.6	137.5	124.9	107.7
77.5°	129.5	110.0	112.2	100.8	79.1
80°	92.8	80.2	82.5	72.2	59.5
82.5°	61.8	52.7	55.0	45.9	40.1
85°	34.3	29.8	30.9	24.1	18.4
87.5°	16.1	13.8	13.8	9.1	5.7
90°	15.5	9.8	9.1	6.3	3.5
92.5°	95.6	68.0	62.0	38.0	14.1
95°	235.1	132.4	121.5	77.6	33.8
97.5°	316.6	145.4	135.7	97.0	58.4
100°	346.3	156.3	147.5	112.5	77.5
102.5°	359.9	167.2	159.0	126.4	93.7
105°	370.1	183.5	176.5	148.8	121.1
107.5°	371.9	207.4	200.9	175.1	149.3
110°	369.2	220.8	215.0	191.6	168.3



TEST NUMBER: P934243

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-2700K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	369.2	236.9	231.4	209.2	187.0
115°	372.7	261.3	256.2	235.7	215.2
117.5°	379.6	284.9	280.2	261.5	242.9
120°	385.2	298.6	294.2	276.7	259.1
122.5°	393.2	314.7	310.3	292.6	274.9
125°	404.2	335.5	331.5	315.3	299.3
127.5°	415.1	355.6	351.5	335.2	319.0
130°	423.0	369.0	364.6	347.0	329.5
132.5°	429.5	379.9	375.6	358.0	340.5
135°	436.5	392.6	388.5	372.7	356.7
137.5°	447.1	408.8	404.9	389.1	373.3
140°	453.6	419.7	416.0	401.5	386.9
142.5°	459.0	427.7	424.4	410.9	397.5
145°	466.1	440.1	437.2	425.4	413.7
147.5°	476.3	455.6	452.8	441.3	429.9
150°	481.8	463.7	461.1	450.8	440.5
152.5°	485.3	469.0	467.0	459.3	451.4
155°	493.1	480.6	479.2	473.4	467.5
157.5°	500.8	492.2	490.8	485.1	479.5
160°	504.4	497.5	496.4	492.1	487.6
162.5°	508.1	503.2	502.3	499.1	495.7
165°	513.4	511.2	510.4	507.5	504.5
167.5°	517.7	515.8	515.5	514.0	512.6
170°	521.2	521.1	520.8	519.3	517.9
172.5°	521.4	521.4	521.4	521.1	520.8
175°	523.6	524.6	524.6	524.6	524.6
177.5°	523.8	524.6	524.6	524.6	524.6
180°	524.6	524.6	524.6	524.6	524.6



TEST NUMBER: P934243
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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	10.62	11.46	11.59	12.45	13.75	13.46	14.30	14.43	15.29	16.59
	3H	11.09	11.85	12.08	12.85	14.17	14.80	15.56	15.79	16.56	17.88
	4H	11.28	12.00	12.28	13.00	14.33	15.25	15.96	16.25	16.96	18.29
	6H	11.40	12.06	12.41	13.07	14.41	15.53	16.19	16.54	17.20	18.54
	8H	11.40	12.03	12.42	13.05	14.39	15.61	16.24	16.62	17.26	18.60
	12H	11.37	11.97	12.39	12.99	14.35	15.65	16.24	16.67	17.26	18.62
4H	2H	11.65	12.37	12.65	13.37	14.70	13.86	14.58	14.87	15.58	16.91
	3H	12.68	13.27	13.69	14.30	15.64	15.37	15.97	16.38	16.99	18.34
	4H	12.95	13.50	13.97	14.52	15.88	15.90	16.44	16.92	17.46	18.83
	6H	13.08	13.54	14.11	14.59	15.95	16.26	16.73	17.30	17.78	19.14
	8H	13.08	13.52	14.11	14.56	15.93	16.37	16.81	17.40	17.85	19.22
	12H	13.05	13.44	14.10	14.50	15.88	16.43	16.82	17.48	17.88	19.26
8H	4H	13.40	13.84	14.44	14.88	16.26	16.02	16.46	17.05	17.50	18.87
	6H	13.67	14.03	14.72	15.11	16.48	16.46	16.82	17.52	17.90	19.28
	8H	13.71	14.03	14.77	15.09	16.48	16.61	16.93	17.68	17.99	19.39
	12H	13.69	13.97	14.76	15.03	16.47	16.71	16.99	17.78	18.05	19.49
12H	4H	13.41	13.81	14.46	14.86	16.24	15.98	16.38	17.04	17.43	18.82
	6H	13.73	14.05	14.79	15.11	16.50	16.46	16.77	17.52	17.84	19.23
	8H	13.79	14.07	14.86	15.13	16.57	16.62	16.90	17.69	17.96	19.39