

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: P934248

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934248
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-8-6500K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

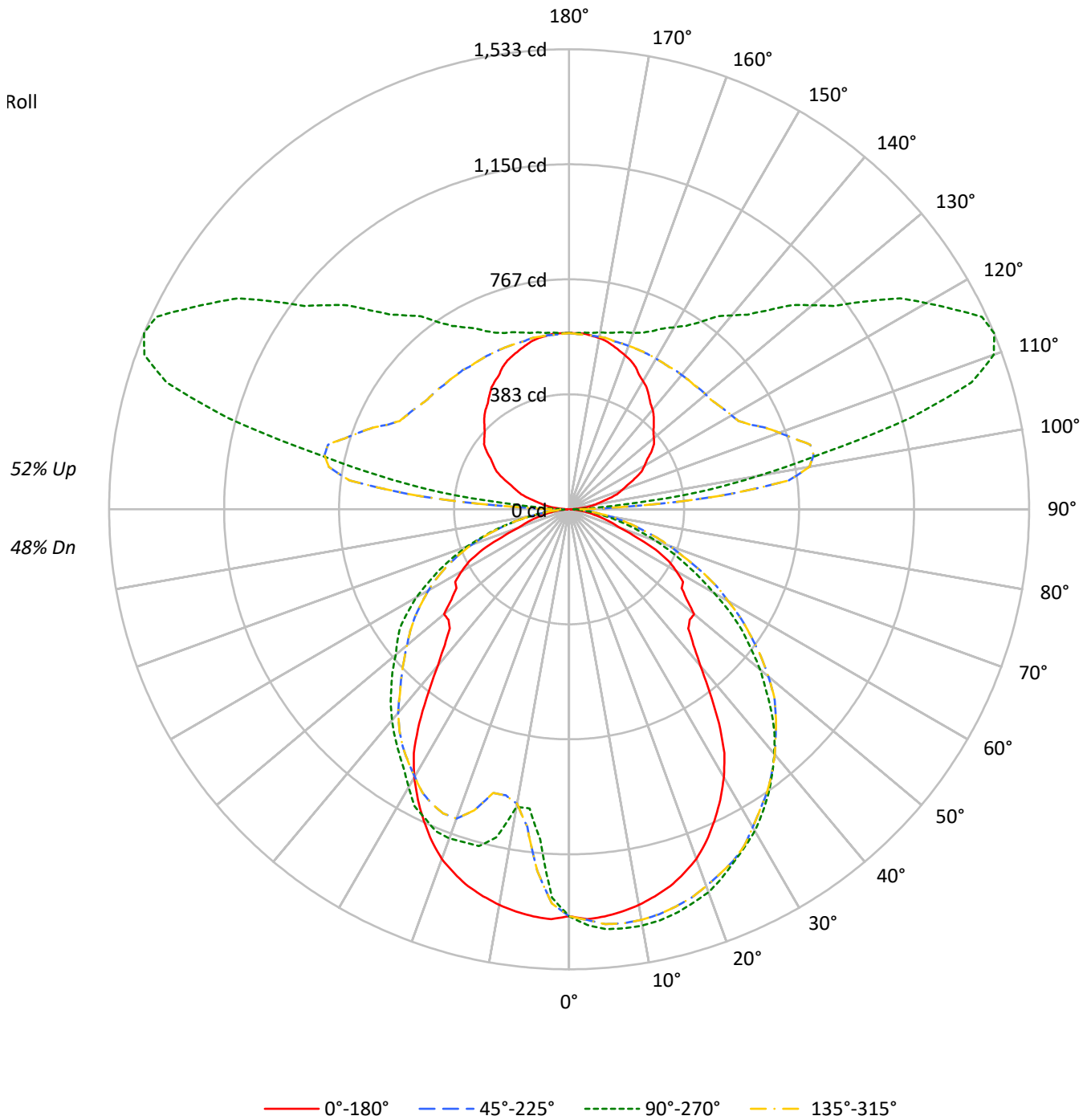
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7324.4 lumens
Efficiency: N/A
Efficacy: 129.0 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

TEST NUMBER: P934248
CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-6500K

Luminous Intensity Polar Plot





TEST NUMBER: P934248

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6290	6290	6290	6290
5°	6337	6349	6337	4992
10°	6294	6254	6294	4471
15°	6226	6118	6226	5109
20°	6096	5958	6096	5120
25°	5829	5724	5829	5011
30°	5485	5530	5485	4773
35°	4889	5284	4889	4511
40°	4075	4994	4075	4314
45°	3641	4656	3641	4086
50°	3868	4252	3868	3858
55°	3638	3816	3638	3726
60°	3751	3241	3751	3412
65°	3400	2679	3400	2995
70°	2355	2136	2355	2510
75°	2066	1579	2066	1891
80°	1662	1043	1662	1135
85°	960	553	960	470

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5579 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.4	1.7
10°-20°	347.4	4.7
20°-30°	537.1	7.3
30°-40°	641.2	8.8
40°-50°	644.9	8.8
50°-60°	561.2	7.7
60°-70°	397.9	5.4
70°-80°	210.5	2.9
80°-90°	54.7	0.7
90°-100°	286.3	3.9
100°-110°	752.6	10.3
110°-120°	780.4	10.7
120°-130°	626.0	8.5
130°-140°	491.2	6.7
140°-150°	377.0	5.1
150°-160°	271.5	3.7
160°-170°	166.1	2.3
170°-180°	56.1	0.8
0°-30°	1006.9	13.7
0°-40°	1648.1	22.5
0°-60°	2854.2	39.0
0°-90°	3517.2	48.0
90°-120°	1819.3	24.8
90°-150°	3313.5	45.2
90°-180°	3807.0	52.0
0°-180°	7324.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1356	1356	1356	1356	1356	
5°	1362	1404	1362	1104	1362	129
15°	1300	1392	1300	1162	1300	366
25°	1145	1298	1145	1136	1145	526
35°	871	1158	871	989	871	539
45°	562	954	562	838	562	450
55°	458	704	458	687	458	421
65°	318	424	318	475	318	304
75°	121	201	121	241	121	127
85°	21	51	21	44	21	28
90°	4	15	4	15	4	4
95°	38	173	38	173	38	42
105°	136	1178	136	1178	136	144
115°	241	1518	241	1518	241	238
125°	335	1208	335	1208	335	297
135°	399	938	399	938	399	309
145°	463	761	463	761	463	290
155°	523	655	523	655	523	240
165°	565	610	565	610	565	159
175°	587	591	587	591	587	56
180°	587	587	587	587	587	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7
2.5°	1367.2	1367.2	1374.9	1377.5	1377.5	1373.6	1369.7	1373.6	1385.1	1389.0	1387.7
5°	1362.1	1372.3	1386.5	1389.0	1391.5	1390.3	1387.7	1390.3	1403.1	1405.7	1406.9
7.5°	1351.8	1371.1	1389.0	1392.9	1396.7	1392.9	1391.5	1394.1	1406.9	1409.5	1409.5
10°	1339.0	1365.9	1386.5	1389.0	1392.9	1389.0	1389.0	1394.1	1406.9	1409.5	1410.8
12.5°	1321.0	1358.2	1377.5	1380.0	1385.1	1383.9	1382.6	1387.7	1400.5	1403.1	1403.1
15°	1300.5	1344.1	1362.1	1364.6	1373.6	1371.1	1371.1	1376.2	1390.3	1394.1	1392.9
17.5°	1272.3	1326.1	1346.7	1350.5	1356.9	1355.7	1356.9	1362.1	1374.9	1377.5	1378.7
20°	1240.2	1301.8	1326.1	1330.0	1336.4	1336.4	1336.4	1342.8	1355.7	1360.8	1360.8
22.5°	1196.6	1276.1	1301.8	1304.3	1312.1	1312.1	1314.6	1323.6	1335.1	1336.4	1336.4
25°	1145.3	1247.9	1269.7	1277.4	1285.1	1288.9	1292.8	1297.9	1301.8	1300.5	1301.8
27.5°	1091.5	1212.0	1240.2	1245.3	1255.6	1259.5	1264.6	1265.9	1267.1	1271.0	1268.5
30°	1031.2	1162.0	1204.3	1209.5	1226.1	1228.7	1223.5	1226.1	1232.5	1235.1	1237.7
32.5°	963.2	1087.6	1167.1	1178.7	1194.1	1186.3	1185.1	1188.9	1199.2	1199.2	1201.7
35°	870.8	1029.9	1132.5	1142.7	1154.3	1145.3	1150.5	1151.7	1158.1	1162.0	1160.7
37.5°	769.5	979.9	1096.6	1104.3	1113.3	1101.7	1109.4	1113.3	1118.4	1115.8	1115.8
40°	679.8	901.6	1054.3	1059.4	1067.1	1058.1	1065.8	1068.4	1070.9	1068.4	1067.1
42.5°	613.0	815.7	1009.4	1015.8	1010.6	1017.1	1019.6	1024.8	1020.9	1015.8	1015.8
45°	561.8	792.6	960.6	968.3	960.6	970.9	974.7	974.7	963.2	960.6	959.3
47.5°	545.1	746.4	911.9	911.9	908.0	920.9	927.3	918.3	906.8	902.9	902.9
50°	543.8	695.2	845.2	840.1	858.0	873.4	867.0	858.0	849.0	834.9	834.9
52.5°	493.8	632.3	759.3	778.5	806.7	815.7	805.4	796.5	781.1	774.6	769.5
55°	457.8	566.9	681.0	719.5	749.0	760.6	741.3	732.3	709.2	705.4	702.8
57.5°	450.2	472.0	609.2	658.0	693.8	692.6	681.0	664.4	645.1	641.3	640.0
60°	413.0	341.2	532.2	590.0	627.2	623.3	613.0	597.6	579.7	577.2	574.6
62.5°	374.5	247.6	445.0	510.4	563.0	561.8	552.8	529.7	516.8	510.4	505.3
65°	318.0	207.8	316.8	424.5	500.2	502.8	483.5	466.8	452.8	445.0	443.8
67.5°	242.4	169.3	214.2	354.0	439.9	437.4	413.0	405.3	387.4	383.5	375.8
70°	179.6	112.8	148.8	287.3	380.9	374.5	355.2	346.3	329.6	320.6	315.5
72.5°	148.8	91.0	109.0	223.2	320.6	313.0	296.2	286.0	271.9	264.2	259.0
75°	120.6	96.2	83.4	165.4	260.4	255.2	239.8	229.6	218.0	207.8	209.0
77.5°	88.5	89.8	66.6	121.8	206.5	198.8	189.8	177.0	171.8	161.6	161.6
80°	66.6	70.6	50.0	83.4	148.8	148.8	141.0	132.1	123.2	118.0	118.0
82.5°	44.8	44.8	37.2	52.6	101.4	97.4	92.4	89.8	84.6	82.0	82.0
85°	20.6	25.6	23.0	32.0	55.2	57.8	57.8	55.2	53.8	51.3	52.6
87.5°	6.4	11.6	14.2	18.0	28.2	29.5	30.8	30.8	30.8	32.0	32.0
90°	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.6	20.0	15.0	15.0
92.5°	15.8	42.6	69.4	76.1	107.0	148.1	168.7	147.8	106.1	74.9	71.9
95°	37.9	86.9	136.0	148.2	263.1	416.4	493.1	440.0	333.9	254.3	245.3
97.5°	65.4	108.6	151.9	162.7	354.5	610.1	737.9	704.3	637.2	586.9	569.7
100°	86.7	125.9	165.1	175.0	387.7	671.3	813.1	815.6	820.5	824.1	803.7
102.5°	104.9	141.5	178.0	187.2	402.9	690.7	834.5	877.2	962.7	1026.8	1009.3
105°	135.6	166.6	197.6	205.4	414.3	692.9	832.1	927.9	1119.6	1263.3	1253.9
107.5°	167.1	196.0	224.9	232.2	416.3	662.0	784.7	918.4	1185.8	1386.3	1388.6
110°	188.4	214.5	240.7	247.2	413.3	634.6	745.4	894.8	1193.6	1417.7	1427.6



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	209.3	234.2	259.0	265.2	413.4	610.8	709.5	862.4	1168.3	1397.7	1412.8
115°	240.9	263.8	286.8	292.5	417.2	583.5	666.6	813.9	1108.5	1329.5	1350.3
117.5°	271.9	292.8	313.6	318.9	424.9	566.3	636.9	769.9	1035.8	1235.3	1258.4
120°	290.1	309.7	329.4	334.3	431.2	560.5	625.2	746.6	989.6	1171.8	1194.3
122.5°	307.8	327.6	347.4	352.4	440.2	557.5	616.1	725.5	944.3	1108.4	1130.6
125°	335.1	353.0	371.1	375.6	452.5	555.0	606.2	699.2	885.1	1024.5	1044.9
127.5°	357.1	375.3	393.5	398.1	464.7	553.5	597.9	677.7	837.3	957.1	974.3
130°	368.9	388.5	408.2	413.1	473.6	554.4	594.8	665.8	807.9	914.4	930.4
132.5°	381.1	400.7	420.4	425.3	480.9	555.0	592.1	655.7	782.8	878.2	892.4
135°	399.3	417.2	435.0	439.5	488.7	554.4	587.3	640.6	747.1	826.9	839.3
137.5°	417.9	435.5	453.2	457.6	500.6	557.8	586.5	631.6	721.6	789.1	799.2
140°	433.2	449.5	465.8	469.9	507.8	558.4	583.8	622.7	700.4	758.7	768.1
142.5°	445.0	460.0	475.1	478.9	513.9	560.4	583.8	617.9	686.3	737.5	745.6
145°	463.2	476.3	489.5	492.7	521.8	560.5	579.8	607.8	663.7	705.6	711.7
147.5°	481.3	494.1	506.9	510.0	533.3	564.3	579.8	601.8	645.7	678.7	683.8
150°	493.1	504.7	516.2	519.1	539.4	566.4	579.8	598.4	635.6	663.4	667.5
152.5°	505.3	514.1	522.8	525.0	543.3	567.7	579.8	595.7	627.4	651.2	654.3
155°	523.4	529.9	536.4	538.0	552.0	570.6	579.8	592.5	617.6	636.5	638.6
157.5°	536.8	543.1	549.4	551.1	560.6	573.4	579.8	589.6	609.2	623.9	625.4
160°	545.9	550.9	555.7	557.0	564.6	574.8	579.8	588.2	605.0	617.6	618.5
162.5°	555.0	558.7	562.3	563.3	568.8	576.2	579.8	586.9	601.2	611.8	612.5
165°	564.8	568.2	571.4	572.3	574.8	578.1	579.8	584.9	595.0	602.7	603.5
167.5°	573.9	575.4	577.1	577.4	579.5	582.3	583.8	587.1	593.8	598.8	599.2
170°	579.8	581.4	583.0	583.4	583.5	583.7	583.8	587.1	593.8	598.8	598.8
172.5°	583.0	583.4	583.7	583.8	583.8	583.8	583.8	586.4	591.7	595.6	595.3
175°	587.3	587.3	587.3	587.3	586.1	584.5	583.8	585.4	588.7	591.2	591.2
177.5°	587.3	587.3	587.3	587.3	586.3	585.1	584.5	585.9	588.4	590.4	590.1
180°	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7
2.5°	1390.3	1386.5	1390.3	1387.7	1389.0	1385.1	1373.6	1369.7	1373.6	1377.5	1377.5
5°	1406.9	1404.4	1406.9	1406.9	1405.7	1403.1	1390.3	1387.7	1390.3	1391.5	1389.0
7.5°	1412.1	1408.3	1412.1	1409.5	1409.5	1406.9	1394.1	1391.5	1392.9	1396.7	1392.9
10°	1412.1	1408.3	1412.1	1410.8	1409.5	1406.9	1394.1	1389.0	1389.0	1392.9	1389.0
12.5°	1405.7	1403.1	1405.7	1403.1	1403.1	1400.5	1387.7	1382.6	1383.9	1385.1	1380.0
15°	1395.4	1391.5	1395.4	1392.9	1394.1	1390.3	1376.2	1371.1	1371.1	1373.6	1364.6
17.5°	1380.0	1374.9	1380.0	1378.7	1377.5	1374.9	1362.1	1356.9	1355.7	1356.9	1350.5
20°	1362.1	1358.2	1362.1	1360.8	1360.8	1355.7	1342.8	1336.4	1336.4	1336.4	1330.0
22.5°	1333.9	1330.0	1333.9	1336.4	1336.4	1335.1	1323.6	1314.6	1312.1	1312.1	1304.3
25°	1301.8	1297.9	1301.8	1301.8	1300.5	1301.8	1297.9	1292.8	1288.9	1285.1	1277.4
27.5°	1271.0	1268.5	1271.0	1268.5	1271.0	1267.1	1265.9	1264.6	1259.5	1255.6	1245.3
30°	1240.2	1237.7	1240.2	1237.7	1235.1	1232.5	1226.1	1223.5	1228.7	1226.1	1209.5
32.5°	1201.7	1199.2	1201.7	1201.7	1199.2	1199.2	1188.9	1185.1	1186.3	1194.1	1178.7
35°	1162.0	1158.1	1162.0	1160.7	1162.0	1158.1	1151.7	1150.5	1145.3	1154.3	1142.7
37.5°	1115.8	1112.0	1115.8	1115.8	1115.8	1118.4	1113.3	1109.4	1101.7	1113.3	1104.3
40°	1068.4	1063.2	1068.4	1067.1	1068.4	1070.9	1068.4	1065.8	1058.1	1067.1	1059.4
42.5°	1014.5	1013.2	1014.5	1015.8	1015.8	1020.9	1024.8	1019.6	1017.1	1010.6	1015.8
45°	956.8	954.2	956.8	959.3	960.6	963.2	974.7	974.7	970.9	960.6	968.3
47.5°	895.2	888.8	895.2	902.9	902.9	906.8	918.3	927.3	920.9	908.0	911.9
50°	829.8	831.1	829.8	834.9	834.9	849.0	858.0	867.0	873.4	858.0	840.1
52.5°	765.7	764.4	765.7	769.5	774.6	781.1	796.5	805.4	815.7	806.7	778.5
55°	701.6	704.1	701.6	702.8	705.4	709.2	732.3	741.3	760.6	749.0	719.5
57.5°	637.4	633.6	637.4	640.0	641.3	645.1	664.4	681.0	692.6	693.8	658.0
60°	563.0	557.9	563.0	574.6	577.2	579.7	597.6	613.0	623.3	627.2	590.0
62.5°	497.6	488.6	497.6	505.3	510.4	516.8	529.7	552.8	561.8	563.0	510.4
65°	428.4	424.5	428.4	443.8	445.0	452.8	466.8	483.5	502.8	500.2	424.5
67.5°	365.6	365.6	365.6	375.8	383.5	387.4	405.3	413.0	437.4	439.9	354.0
70°	307.8	306.6	307.8	315.5	320.6	329.6	346.3	355.2	374.5	380.9	287.3
72.5°	252.6	251.4	252.6	259.0	264.2	271.9	286.0	296.2	313.0	320.6	223.2
75°	204.0	201.4	204.0	209.0	207.8	218.0	229.6	239.8	255.2	260.4	165.4
77.5°	156.4	156.4	156.4	161.6	161.6	171.8	177.0	189.8	198.8	206.5	121.8
80°	116.8	115.4	116.8	118.0	118.0	123.2	132.1	141.0	148.8	148.8	83.4
82.5°	82.0	79.6	82.0	82.0	82.0	84.6	89.8	92.4	97.4	101.4	52.6
85°	51.3	51.3	51.3	52.6	51.3	53.8	55.2	57.8	57.8	55.2	32.0
87.5°	33.4	32.0	33.4	32.0	32.0	30.8	30.8	30.8	29.5	28.2	18.0
90°	15.0	15.0	15.0	15.0	15.0	20.0	26.6	29.9	25.7	17.3	11.0
92.5°	60.0	48.1	60.0	71.9	74.9	106.1	147.8	168.7	148.1	107.0	76.1
95°	209.1	173.1	209.1	245.3	254.3	333.9	440.0	493.1	416.4	263.1	148.2
97.5°	501.0	432.4	501.0	569.7	586.9	637.2	704.3	737.9	610.1	354.5	162.7
100°	721.9	640.1	721.9	803.7	824.1	820.5	815.6	813.1	671.3	387.7	175.0
102.5°	939.2	869.1	939.2	1009.3	1026.8	962.7	877.2	834.5	690.7	402.9	187.2
105°	1216.2	1178.5	1216.2	1253.9	1263.3	1119.6	927.9	832.1	692.9	414.3	205.4
107.5°	1397.7	1406.8	1397.7	1388.6	1386.3	1185.8	918.4	784.7	662.0	416.3	232.2
110°	1466.8	1506.1	1466.8	1427.6	1417.7	1193.6	894.8	745.4	634.6	413.3	247.2



TEST NUMBER: P934248

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1473.0	1533.3	1473.0	1412.8	1397.7	1168.3	862.4	709.5	610.8	413.4	265.2
115°	1433.9	1517.5	1433.9	1350.3	1329.5	1108.5	813.9	666.6	583.5	417.2	292.5
117.5°	1351.2	1443.9	1351.2	1258.4	1235.3	1035.8	769.9	636.9	566.3	424.9	318.9
120°	1284.4	1374.4	1284.4	1194.3	1171.8	989.6	746.6	625.2	560.5	431.2	334.3
122.5°	1219.4	1308.3	1219.4	1130.6	1108.4	944.3	725.5	616.1	557.5	440.2	352.4
125°	1126.7	1208.5	1126.7	1044.9	1024.5	885.1	699.2	606.2	555.0	452.5	375.6
127.5°	1043.3	1112.3	1043.3	974.3	957.1	837.3	677.7	597.9	553.5	464.7	398.1
130°	994.2	1057.9	994.2	930.4	914.4	807.9	665.8	594.8	554.4	473.6	413.1
132.5°	949.6	1006.7	949.6	892.4	878.2	782.8	655.7	592.1	555.0	480.9	425.3
135°	888.5	937.7	888.5	839.3	826.9	747.1	640.6	587.3	554.4	488.7	439.5
137.5°	839.5	879.8	839.5	799.2	789.1	721.6	631.6	586.5	557.8	500.6	457.6
140°	805.8	843.5	805.8	768.1	758.7	700.4	622.7	583.8	558.4	507.8	469.9
142.5°	778.0	810.4	778.0	745.6	737.5	686.3	617.9	583.8	560.4	513.9	478.9
145°	736.3	760.7	736.3	711.7	705.6	663.7	607.8	579.8	560.5	521.8	492.7
147.5°	704.1	724.5	704.1	683.8	678.7	645.7	601.8	579.8	564.3	533.3	510.0
150°	684.0	700.4	684.0	667.5	663.4	635.6	598.4	579.8	566.4	539.4	519.1
152.5°	666.8	679.2	666.8	654.3	651.2	627.4	595.7	579.8	567.7	543.3	525.0
155°	646.9	655.1	646.9	638.6	636.5	617.6	592.5	579.8	570.6	552.0	538.0
157.5°	631.2	636.9	631.2	625.4	623.9	609.2	589.6	579.8	573.4	560.6	551.1
160°	621.8	625.2	621.8	618.5	617.6	605.0	588.2	579.8	574.8	564.6	557.0
162.5°	615.7	618.8	615.7	612.5	611.8	601.2	586.9	579.8	576.2	568.8	563.3
165°	606.8	610.1	606.8	603.5	602.7	595.0	584.9	579.8	578.1	574.8	572.3
167.5°	600.5	601.9	600.5	599.2	598.8	593.8	587.1	583.8	582.3	579.5	577.4
170°	598.8	598.8	598.8	598.8	598.8	593.8	587.1	583.8	583.7	583.5	583.4
172.5°	594.1	592.8	594.1	595.3	595.6	591.7	586.4	583.8	583.8	583.8	583.8
175°	591.2	591.2	591.2	591.2	591.2	588.7	585.4	583.8	584.5	586.1	587.3
177.5°	588.7	587.3	588.7	590.1	590.4	588.4	585.9	584.5	585.1	586.3	587.3
180°	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3



TEST NUMBER: P934248

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7
2.5°	1374.9	1367.2	1367.2	1354.4	1349.3	1345.4	1339.0	1319.7	1314.6	1309.5	1317.2
5°	1386.5	1372.3	1362.1	1339.0	1319.7	1312.1	1287.7	1241.5	1210.7	1187.6	1174.8
7.5°	1389.0	1371.1	1351.8	1315.9	1269.7	1249.2	1174.8	1090.2	1067.1	1046.6	1033.7
10°	1386.5	1365.9	1339.0	1285.1	1176.1	1140.2	1065.8	1010.6	996.5	992.7	996.5
12.5°	1377.5	1358.2	1321.0	1231.3	1078.6	1054.3	1010.6	978.6	976.0	982.4	1017.1
15°	1362.1	1344.1	1300.5	1159.4	1024.8	1006.8	976.0	964.5	978.6	1023.5	1127.4
17.5°	1346.7	1326.1	1272.3	1088.9	983.7	970.9	949.1	972.2	1051.7	1112.0	1146.6
20°	1326.1	1301.8	1240.2	1037.6	954.2	942.7	932.4	1036.3	1096.6	1118.4	1137.6
22.5°	1301.8	1276.1	1196.6	1001.7	923.4	914.5	920.9	1072.2	1096.6	1112.0	1128.6
25°	1269.7	1247.9	1145.3	973.5	899.1	888.8	913.2	1068.4	1082.5	1086.3	1119.7
27.5°	1240.2	1212.0	1091.5	947.8	869.6	865.7	919.6	1051.7	1061.9	1065.8	1101.7
30°	1204.3	1162.0	1031.2	920.9	838.8	837.5	920.9	1031.2	1028.6	1038.9	1074.8
32.5°	1167.1	1087.6	963.2	887.5	809.3	808.0	911.9	1000.4	997.8	1011.9	1038.9
35°	1132.5	1029.9	870.8	849.0	772.1	773.4	890.1	964.5	965.8	978.6	995.3
37.5°	1096.6	979.9	769.5	806.7	736.2	736.2	860.6	931.1	928.6	932.4	955.5
40°	1054.3	901.6	679.8	751.6	702.8	699.0	824.7	895.2	886.2	885.0	917.0
42.5°	1009.4	815.7	613.0	678.5	664.4	659.2	781.1	851.6	834.9	838.8	879.8
45°	960.6	792.6	561.8	573.3	624.6	620.8	733.6	801.6	790.0	800.3	842.6
47.5°	911.9	746.4	545.1	475.8	582.3	581.0	681.0	752.8	746.4	756.7	801.6
50°	845.2	695.2	543.8	407.8	534.8	540.0	618.2	705.4	705.4	714.4	761.8
52.5°	759.3	632.3	493.8	369.4	479.6	495.0	563.0	664.4	666.9	675.9	718.2
55°	681.0	566.9	457.8	339.8	414.2	447.6	509.2	622.0	627.2	636.2	674.6
57.5°	609.2	472.0	450.2	305.2	354.0	386.0	461.7	581.0	583.6	591.2	628.4
60°	532.2	341.2	413.0	268.0	301.4	325.8	418.1	532.2	541.2	546.4	578.4
62.5°	445.0	247.6	374.5	242.4	275.8	280.8	382.2	486.1	497.6	501.5	520.7
65°	316.8	207.8	318.0	220.6	248.8	250.1	343.8	438.6	448.9	455.3	469.4
67.5°	214.2	169.3	242.4	200.0	228.3	229.6	306.6	383.5	397.6	402.7	411.7
70°	148.8	112.8	179.6	178.2	205.2	207.8	266.8	333.4	346.3	350.2	355.2
72.5°	109.0	91.0	148.8	160.4	180.8	183.4	225.8	277.0	289.8	293.7	296.2
75°	83.4	96.2	120.6	139.8	153.9	155.2	184.6	225.8	234.7	237.2	238.6
77.5°	66.6	89.8	88.5	112.8	125.6	123.2	145.0	174.4	182.2	182.2	182.2
80°	50.0	70.6	66.6	80.8	92.4	89.8	103.8	124.4	127.0	129.6	128.2
82.5°	37.2	44.8	44.8	51.3	61.6	59.0	69.2	80.8	80.8	80.8	83.4
85°	23.0	25.6	20.6	27.0	34.6	33.4	38.4	43.6	44.8	44.8	42.4
87.5°	14.2	11.6	6.4	10.2	15.4	15.4	18.0	19.2	18.0	18.0	18.0
90°	10.2	7.1	3.9	7.1	10.2	11.0	17.3	25.7	29.9	26.6	20.0
92.5°	69.4	42.6	15.8	42.6	69.4	76.1	107.0	148.1	168.7	147.8	106.1
95°	136.0	86.9	37.9	86.9	136.0	148.2	263.1	416.4	493.1	440.0	333.9
97.5°	151.9	108.6	65.4	108.6	151.9	162.7	354.5	610.1	737.9	704.3	637.2
100°	165.1	125.9	86.7	125.9	165.1	175.0	387.7	671.3	813.1	815.6	820.5
102.5°	178.0	141.5	104.9	141.5	178.0	187.2	402.9	690.7	834.5	877.2	962.7
105°	197.6	166.6	135.6	166.6	197.6	205.4	414.3	692.9	832.1	927.9	1119.6
107.5°	224.9	196.0	167.1	196.0	224.9	232.2	416.3	662.0	784.7	918.4	1185.8
110°	240.7	214.5	188.4	214.5	240.7	247.2	413.3	634.6	745.4	894.8	1193.6



TEST NUMBER: P934248

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	259.0	234.2	209.3	234.2	259.0	265.2	413.4	610.8	709.5	862.4	1168.3
115°	286.8	263.8	240.9	263.8	286.8	292.5	417.2	583.5	666.6	813.9	1108.5
117.5°	313.6	292.8	271.9	292.8	313.6	318.9	424.9	566.3	636.9	769.9	1035.8
120°	329.4	309.7	290.1	309.7	329.4	334.3	431.2	560.5	625.2	746.6	989.6
122.5°	347.4	327.6	307.8	327.6	347.4	352.4	440.2	557.5	616.1	725.5	944.3
125°	371.1	353.0	335.1	353.0	371.1	375.6	452.5	555.0	606.2	699.2	885.1
127.5°	393.5	375.3	357.1	375.3	393.5	398.1	464.7	553.5	597.9	677.7	837.3
130°	408.2	388.5	368.9	388.5	408.2	413.1	473.6	554.4	594.8	665.8	807.9
132.5°	420.4	400.7	381.1	400.7	420.4	425.3	480.9	555.0	592.1	655.7	782.8
135°	435.0	417.2	399.3	417.2	435.0	439.5	488.7	554.4	587.3	640.6	747.1
137.5°	453.2	435.5	417.9	435.5	453.2	457.6	500.6	557.8	586.5	631.6	721.6
140°	465.8	449.5	433.2	449.5	465.8	469.9	507.8	558.4	583.8	622.7	700.4
142.5°	475.1	460.0	445.0	460.0	475.1	478.9	513.9	560.4	583.8	617.9	686.3
145°	489.5	476.3	463.2	476.3	489.5	492.7	521.8	560.5	579.8	607.8	663.7
147.5°	506.9	494.1	481.3	494.1	506.9	510.0	533.3	564.3	579.8	601.8	645.7
150°	516.2	504.7	493.1	504.7	516.2	519.1	539.4	566.4	579.8	598.4	635.6
152.5°	522.8	514.1	505.3	514.1	522.8	525.0	543.3	567.7	579.8	595.7	627.4
155°	536.4	529.9	523.4	529.9	536.4	538.0	552.0	570.6	579.8	592.5	617.6
157.5°	549.4	543.1	536.8	543.1	549.4	551.1	560.6	573.4	579.8	589.6	609.2
160°	555.7	550.9	545.9	550.9	555.7	557.0	564.6	574.8	579.8	588.2	605.0
162.5°	562.3	558.7	555.0	558.7	562.3	563.3	568.8	576.2	579.8	586.9	601.2
165°	571.4	568.2	564.8	568.2	571.4	572.3	574.8	578.1	579.8	584.9	595.0
167.5°	577.1	575.4	573.9	575.4	577.1	577.4	579.5	582.3	583.8	587.1	593.8
170°	583.0	581.4	579.8	581.4	583.0	583.4	583.5	583.7	583.8	587.1	593.8
172.5°	583.7	583.4	583.0	583.4	583.7	583.8	583.8	583.8	583.8	586.4	591.7
175°	587.3	587.3	587.3	587.3	587.3	587.3	586.1	584.5	583.8	585.4	588.7
177.5°	587.3	587.3	587.3	587.3	587.3	587.3	586.3	585.1	584.5	585.9	588.4
180°	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3



TEST NUMBER: P934248

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7	1355.7
2.5°	1308.2	1304.3	1309.5	1295.4	1309.5	1304.3	1308.2	1317.2	1309.5	1314.6	1319.7
5°	1147.9	1141.5	1120.9	1104.3	1120.9	1141.5	1147.9	1174.8	1187.6	1210.7	1241.5
7.5°	1026.0	1020.9	1015.8	1005.5	1015.8	1020.9	1026.0	1033.7	1046.6	1067.1	1090.2
10°	999.1	1000.4	1008.1	1006.8	1008.1	1000.4	999.1	996.5	992.7	996.5	1010.6
12.5°	1068.4	1079.9	1122.2	1119.7	1122.2	1079.9	1068.4	1017.1	982.4	976.0	978.6
15°	1147.9	1151.7	1160.7	1162.0	1160.7	1151.7	1147.9	1127.4	1023.5	978.6	964.5
17.5°	1155.6	1156.9	1163.3	1163.3	1163.3	1156.9	1155.6	1146.6	1112.0	1051.7	972.2
20°	1149.2	1151.7	1164.5	1167.1	1164.5	1151.7	1149.2	1137.6	1118.4	1096.6	1036.3
22.5°	1146.6	1151.7	1162.0	1160.7	1162.0	1151.7	1146.6	1128.6	1112.0	1096.6	1072.2
25°	1133.8	1133.8	1135.1	1136.3	1135.1	1133.8	1133.8	1119.7	1086.3	1082.5	1068.4
27.5°	1106.8	1109.4	1117.1	1115.8	1117.1	1109.4	1106.8	1101.7	1065.8	1061.9	1051.7
30°	1082.5	1079.9	1073.5	1068.4	1073.5	1079.9	1082.5	1074.8	1038.9	1028.6	1031.2
32.5°	1041.4	1035.0	1028.6	1024.8	1028.6	1035.0	1041.4	1038.9	1011.9	997.8	1000.4
35°	992.7	994.0	992.7	988.8	992.7	994.0	992.7	995.3	978.6	965.8	964.5
37.5°	958.1	960.6	959.3	954.2	959.3	960.6	958.1	955.5	932.4	928.6	931.1
40°	922.2	923.4	922.2	918.3	922.2	923.4	922.2	917.0	885.0	886.2	895.2
42.5°	887.5	886.2	882.4	879.8	882.4	886.2	887.5	879.8	838.8	834.9	851.6
45°	847.8	849.0	841.4	837.5	841.4	849.0	847.8	842.6	800.3	790.0	801.6
47.5°	808.0	808.0	801.6	797.8	801.6	808.0	808.0	801.6	756.7	746.4	752.8
50°	765.7	764.4	755.4	754.1	755.4	764.4	765.7	761.8	714.4	705.4	705.4
52.5°	717.0	717.0	718.2	720.8	718.2	717.0	717.0	718.2	675.9	666.9	664.4
55°	674.6	675.9	684.9	687.4	684.9	675.9	674.6	674.6	636.2	627.2	622.0
57.5°	631.0	631.0	637.4	637.4	637.4	631.0	631.0	628.4	591.2	583.6	581.0
60°	581.0	583.6	588.7	587.4	588.7	583.6	581.0	578.4	546.4	541.2	532.2
62.5°	528.4	531.0	532.2	529.7	532.2	531.0	528.4	520.7	501.5	497.6	486.1
65°	473.2	475.8	477.1	474.6	477.1	475.8	473.2	469.4	455.3	448.9	438.6
67.5°	416.8	415.6	414.2	419.4	414.2	415.6	416.8	411.7	402.7	397.6	383.5
70°	359.1	359.1	357.8	360.4	357.8	359.1	359.1	355.2	350.2	346.3	333.4
72.5°	297.6	296.2	301.4	297.6	301.4	296.2	297.6	296.2	293.7	289.8	277.0
75°	237.2	239.8	237.2	241.2	237.2	239.8	237.2	238.6	237.2	234.7	225.8
77.5°	180.8	183.4	180.8	180.8	180.8	183.4	180.8	182.2	182.2	182.2	174.4
80°	128.2	127.0	127.0	125.6	127.0	127.0	128.2	128.2	129.6	127.0	124.4
82.5°	82.0	80.8	80.8	83.4	80.8	80.8	82.0	83.4	80.8	80.8	80.8
85°	44.8	46.2	43.6	43.6	43.6	46.2	44.8	42.4	44.8	44.8	43.6
87.5°	16.6	15.4	15.4	15.4	15.4	15.4	16.6	18.0	18.0	18.0	19.2
90°	15.0	15.0	15.0	15.0	15.0	15.0	15.0	20.0	26.6	29.9	25.7
92.5°	74.9	71.9	60.0	48.1	60.0	71.9	74.9	106.1	147.8	168.7	148.1
95°	254.3	245.3	209.1	173.1	209.1	245.3	254.3	333.9	440.0	493.1	416.4
97.5°	586.9	569.7	501.0	432.4	501.0	569.7	586.9	637.2	704.3	737.9	610.1
100°	824.1	803.7	721.9	640.1	721.9	803.7	824.1	820.5	815.6	813.1	671.3
102.5°	1026.8	1009.3	939.2	869.1	939.2	1009.3	1026.8	962.7	877.2	834.5	690.7
105°	1263.3	1253.9	1216.2	1178.5	1216.2	1253.9	1263.3	1119.6	927.9	832.1	692.9
107.5°	1386.3	1388.6	1397.7	1406.8	1397.7	1388.6	1386.3	1185.8	918.4	784.7	662.0
110°	1417.7	1427.6	1466.8	1506.1	1466.8	1427.6	1417.7	1193.6	894.8	745.4	634.6



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1397.7	1412.8	1473.0	1533.3	1473.0	1412.8	1397.7	1168.3	862.4	709.5	610.8
115°	1329.5	1350.3	1433.9	1517.5	1433.9	1350.3	1329.5	1108.5	813.9	666.6	583.5
117.5°	1235.3	1258.4	1351.2	1443.9	1351.2	1258.4	1235.3	1035.8	769.9	636.9	566.3
120°	1171.8	1194.3	1284.4	1374.4	1284.4	1194.3	1171.8	989.6	746.6	625.2	560.5
122.5°	1108.4	1130.6	1219.4	1308.3	1219.4	1130.6	1108.4	944.3	725.5	616.1	557.5
125°	1024.5	1044.9	1126.7	1208.5	1126.7	1044.9	1024.5	885.1	699.2	606.2	555.0
127.5°	957.1	974.3	1043.3	1112.3	1043.3	974.3	957.1	837.3	677.7	597.9	553.5
130°	914.4	930.4	994.2	1057.9	994.2	930.4	914.4	807.9	665.8	594.8	554.4
132.5°	878.2	892.4	949.6	1006.7	949.6	892.4	878.2	782.8	655.7	592.1	555.0
135°	826.9	839.3	888.5	937.7	888.5	839.3	826.9	747.1	640.6	587.3	554.4
137.5°	789.1	799.2	839.5	879.8	839.5	799.2	789.1	721.6	631.6	586.5	557.8
140°	758.7	768.1	805.8	843.5	805.8	768.1	758.7	700.4	622.7	583.8	558.4
142.5°	737.5	745.6	778.0	810.4	778.0	745.6	737.5	686.3	617.9	583.8	560.4
145°	705.6	711.7	736.3	760.7	736.3	711.7	705.6	663.7	607.8	579.8	560.5
147.5°	678.7	683.8	704.1	724.5	704.1	683.8	678.7	645.7	601.8	579.8	564.3
150°	663.4	667.5	684.0	700.4	684.0	667.5	663.4	635.6	598.4	579.8	566.4
152.5°	651.2	654.3	666.8	679.2	666.8	654.3	651.2	627.4	595.7	579.8	567.7
155°	636.5	638.6	646.9	655.1	646.9	638.6	636.5	617.6	592.5	579.8	570.6
157.5°	623.9	625.4	631.2	636.9	631.2	625.4	623.9	609.2	589.6	579.8	573.4
160°	617.6	618.5	621.8	625.2	621.8	618.5	617.6	605.0	588.2	579.8	574.8
162.5°	611.8	612.5	615.7	618.8	615.7	612.5	611.8	601.2	586.9	579.8	576.2
165°	602.7	603.5	606.8	610.1	606.8	603.5	602.7	595.0	584.9	579.8	578.1
167.5°	598.8	599.2	600.5	601.9	600.5	599.2	598.8	593.8	587.1	583.8	582.3
170°	598.8	598.8	598.8	598.8	598.8	598.8	598.8	593.8	587.1	583.8	583.7
172.5°	595.6	595.3	594.1	592.8	594.1	595.3	595.6	591.7	586.4	583.8	583.8
175°	591.2	591.2	591.2	591.2	591.2	591.2	591.2	588.7	585.4	583.8	584.5
177.5°	590.4	590.1	588.7	587.3	588.7	590.1	590.4	588.4	585.9	584.5	585.1
180°	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3	587.3



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CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1355.7	1355.7	1355.7	1355.7	1355.7
2.5°	1339.0	1345.4	1349.3	1354.4	1367.2
5°	1287.7	1312.1	1319.7	1339.0	1362.1
7.5°	1174.8	1249.2	1269.7	1315.9	1351.8
10°	1065.8	1140.2	1176.1	1285.1	1339.0
12.5°	1010.6	1054.3	1078.6	1231.3	1321.0
15°	976.0	1006.8	1024.8	1159.4	1300.5
17.5°	949.1	970.9	983.7	1088.9	1272.3
20°	932.4	942.7	954.2	1037.6	1240.2
22.5°	920.9	914.5	923.4	1001.7	1196.6
25°	913.2	888.8	899.1	973.5	1145.3
27.5°	919.6	865.7	869.6	947.8	1091.5
30°	920.9	837.5	838.8	920.9	1031.2
32.5°	911.9	808.0	809.3	887.5	963.2
35°	890.1	773.4	772.1	849.0	870.8
37.5°	860.6	736.2	736.2	806.7	769.5
40°	824.7	699.0	702.8	751.6	679.8
42.5°	781.1	659.2	664.4	678.5	613.0
45°	733.6	620.8	624.6	573.3	561.8
47.5°	681.0	581.0	582.3	475.8	545.1
50°	618.2	540.0	534.8	407.8	543.8
52.5°	563.0	495.0	479.6	369.4	493.8
55°	509.2	447.6	414.2	339.8	457.8
57.5°	461.7	386.0	354.0	305.2	450.2
60°	418.1	325.8	301.4	268.0	413.0
62.5°	382.2	280.8	275.8	242.4	374.5
65°	343.8	250.1	248.8	220.6	318.0
67.5°	306.6	229.6	228.3	200.0	242.4
70°	266.8	207.8	205.2	178.2	179.6
72.5°	225.8	183.4	180.8	160.4	148.8
75°	184.6	155.2	153.9	139.8	120.6
77.5°	145.0	123.2	125.6	112.8	88.5
80°	103.8	89.8	92.4	80.8	66.6
82.5°	69.2	59.0	61.6	51.3	44.8
85°	38.4	33.4	34.6	27.0	20.6
87.5°	18.0	15.4	15.4	10.2	6.4
90°	17.3	11.0	10.2	7.1	3.9
92.5°	107.0	76.1	69.4	42.6	15.8
95°	263.1	148.2	136.0	86.9	37.9
97.5°	354.5	162.7	151.9	108.6	65.4
100°	387.7	175.0	165.1	125.9	86.7
102.5°	402.9	187.2	178.0	141.5	104.9
105°	414.3	205.4	197.6	166.6	135.6
107.5°	416.3	232.2	224.9	196.0	167.1
110°	413.3	247.2	240.7	214.5	188.4



TEST NUMBER: P934248

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	413.4	265.2	259.0	234.2	209.3
115°	417.2	292.5	286.8	263.8	240.9
117.5°	424.9	318.9	313.6	292.8	271.9
120°	431.2	334.3	329.4	309.7	290.1
122.5°	440.2	352.4	347.4	327.6	307.8
125°	452.5	375.6	371.1	353.0	335.1
127.5°	464.7	398.1	393.5	375.3	357.1
130°	473.6	413.1	408.2	388.5	368.9
132.5°	480.9	425.3	420.4	400.7	381.1
135°	488.7	439.5	435.0	417.2	399.3
137.5°	500.6	457.6	453.2	435.5	417.9
140°	507.8	469.9	465.8	449.5	433.2
142.5°	513.9	478.9	475.1	460.0	445.0
145°	521.8	492.7	489.5	476.3	463.2
147.5°	533.3	510.0	506.9	494.1	481.3
150°	539.4	519.1	516.2	504.7	493.1
152.5°	543.3	525.0	522.8	514.1	505.3
155°	552.0	538.0	536.4	529.9	523.4
157.5°	560.6	551.1	549.4	543.1	536.8
160°	564.6	557.0	555.7	550.9	545.9
162.5°	568.8	563.3	562.3	558.7	555.0
165°	574.8	572.3	571.4	568.2	564.8
167.5°	579.5	577.4	577.1	575.4	573.9
170°	583.5	583.4	583.0	581.4	579.8
172.5°	583.8	583.8	583.7	583.4	583.0
175°	586.1	587.3	587.3	587.3	587.3
177.5°	586.3	587.3	587.3	587.3	587.3
180°	587.3	587.3	587.3	587.3	587.3



TEST NUMBER: P934248
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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	11.01	11.85	11.98	12.84	14.14	13.85	14.69	14.82	15.68	16.98
	3H	11.49	12.24	12.47	13.24	14.56	15.19	15.95	16.18	16.95	18.27
	4H	11.68	12.39	12.67	13.39	14.72	15.64	16.36	16.64	17.36	18.68
	6H	11.79	12.45	12.80	13.46	14.80	15.93	16.58	16.93	17.59	18.93
	8H	11.79	12.42	12.81	13.44	14.78	16.00	16.63	17.02	17.65	18.99
	12H	11.76	12.36	12.79	13.38	14.74	16.04	16.64	17.06	17.65	19.01
4H	2H	12.04	12.76	13.05	13.76	15.09	14.25	14.97	15.26	15.97	17.30
	3H	13.07	13.66	14.08	14.69	16.04	15.76	16.36	16.78	17.39	18.73
	4H	13.34	13.89	14.36	14.91	16.28	16.29	16.84	17.31	17.86	19.22
	6H	13.47	13.94	14.50	14.98	16.34	16.66	17.13	17.69	18.17	19.53
	8H	13.47	13.91	14.51	14.95	16.33	16.76	17.20	17.80	18.24	19.62
	12H	13.44	13.83	14.49	14.89	16.27	16.82	17.22	17.87	18.27	19.65
8H	4H	13.80	14.23	14.83	15.27	16.65	16.41	16.85	17.45	17.89	19.27
	6H	14.06	14.42	15.11	15.50	16.87	16.85	17.21	17.91	18.29	19.67
	8H	14.10	14.42	15.16	15.48	16.88	17.00	17.32	18.07	18.39	19.78
	12H	14.08	14.36	15.15	15.42	16.86	17.10	17.38	18.17	18.44	19.88
12H	4H	13.80	14.20	14.85	15.25	16.63	16.38	16.77	17.43	17.83	19.21
	6H	14.12	14.44	15.18	15.50	16.90	16.85	17.17	17.91	18.23	19.63
	8H	14.18	14.46	15.25	15.52	16.96	17.01	17.29	18.08	18.35	19.78