

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: P933848

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-6500K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933848
REPORT IS A COMBINATION OF REPORTS P933676 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-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: -

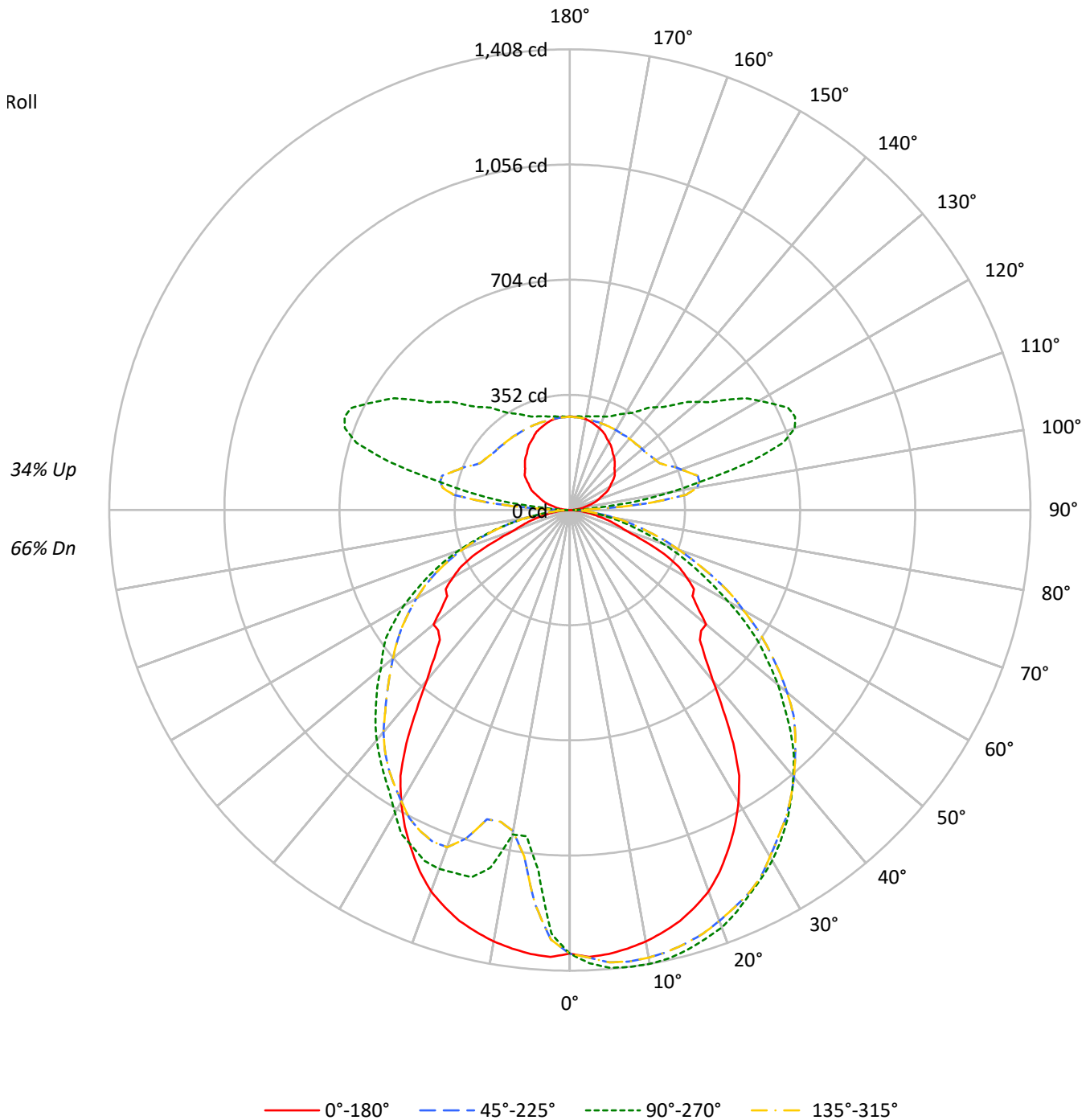
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5366.2 lumens
Efficiency: N/A
Efficacy: 122.0 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: Semi-Direct

Input Watts (W): 44
Input Voltage (V): NR
Input Current (A_{in}): 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-025U-050D-92765-1D-UNV-STD-W-8-6500K

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	0
RCR																					
0	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

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	2.3
10°-20°	347.4	6.5
20°-30°	537.1	10.0
30°-40°	641.2	11.9
40°-50°	644.9	12.0
50°-60°	561.2	10.5
60°-70°	397.9	7.4
70°-80°	210.5	3.9
80°-90°	53.5	1.0
90°-100°	139.1	2.6
100°-110°	365.7	6.8
110°-120°	379.2	7.1
120°-130°	304.2	5.7
130°-140°	238.7	4.4
140°-150°	183.2	3.4
150°-160°	131.9	2.5
160°-170°	80.7	1.5
170°-180°	27.3	0.5
0°-30°	1006.9	18.8
0°-40°	1648.1	30.7
0°-60°	2854.2	53.2
0°-90°	3516.0	65.5
90°-120°	884.1	16.5
90°-150°	1610.2	30.0
90°-180°	1850.0	34.5
0°-180°	5366.2	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°	2	7	2	7	2	2
95°	18	84	18	84	18	20
105°	66	573	66	573	66	70
115°	117	737	117	737	117	116
125°	163	587	163	587	163	145
135°	194	456	194	456	194	150
145°	225	370	225	370	225	141
155°	254	318	254	318	254	117
165°	274	296	274	296	274	77
175°	285	287	285	287	285	27
180°	285	285	285	285	285	



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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°	1.9	3.4	5.0	5.4	8.4	12.5	14.5	12.9	9.7	7.3	7.3
92.5°	7.6	20.7	33.8	37.0	52.0	72.0	81.9	71.8	51.6	36.4	35.0
95°	18.4	42.2	66.1	72.0	127.8	202.3	239.6	213.8	162.3	123.5	119.1
97.5°	31.8	52.9	73.8	79.1	172.2	296.4	358.6	342.3	309.7	285.2	276.9
100°	42.2	61.2	80.2	85.0	188.4	326.2	395.1	396.3	398.7	400.5	390.6
102.5°	51.0	68.8	86.5	90.9	195.8	335.6	405.5	426.3	467.8	498.9	490.4
105°	65.9	81.0	96.1	99.8	201.4	336.7	404.4	450.9	544.1	613.9	609.3
107.5°	81.2	95.2	109.3	112.8	202.3	321.7	381.3	446.3	576.2	673.6	674.8
110°	91.6	104.2	116.9	120.1	200.8	308.4	362.2	434.8	580.0	688.9	693.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	101.7	113.8	125.8	128.9	200.9	296.8	344.8	419.1	567.7	679.2	686.5
115°	117.0	128.1	139.3	142.1	202.7	283.5	323.9	395.5	538.7	646.1	656.2
117.5°	132.1	142.3	152.4	155.0	206.5	275.2	309.5	374.2	503.3	600.3	611.6
120°	140.9	150.5	160.1	162.5	209.6	272.4	303.8	362.8	480.9	569.4	580.3
122.5°	149.5	159.2	168.9	171.3	214.0	270.9	299.4	352.5	458.9	538.6	549.4
125°	162.8	171.6	180.3	182.5	219.9	269.7	294.6	339.7	430.1	497.8	507.7
127.5°	173.5	182.3	191.2	193.4	225.9	269.0	290.6	329.4	407.0	465.1	473.5
130°	179.3	188.8	198.3	200.7	230.2	269.5	289.1	323.6	392.6	444.3	452.1
132.5°	185.2	194.8	204.2	206.6	233.7	269.7	287.7	318.6	380.4	426.7	433.7
135°	194.0	202.7	211.4	213.6	237.5	269.5	285.4	311.3	363.1	401.9	407.8
137.5°	203.0	211.6	220.2	222.4	243.3	271.1	285.0	306.9	350.6	383.4	388.3
140°	210.5	218.4	226.3	228.3	246.8	271.4	283.7	302.6	340.4	368.7	373.3
142.5°	216.3	223.6	230.9	232.7	249.8	272.4	283.7	300.3	333.5	358.4	362.3
145°	225.1	231.5	237.8	239.4	253.6	272.4	281.8	295.4	322.5	342.9	345.9
147.5°	233.9	240.1	246.3	247.8	259.1	274.2	281.8	292.5	313.8	329.8	332.3
150°	239.6	245.3	250.8	252.2	262.1	275.2	281.8	290.8	308.9	322.3	324.3
152.5°	245.6	249.8	254.1	255.1	264.0	275.9	281.8	289.4	304.8	316.4	317.9
155°	254.3	257.5	260.7	261.4	268.2	277.3	281.8	287.9	300.1	309.3	310.3
157.5°	260.8	263.9	267.0	267.7	272.4	278.6	281.8	286.6	296.0	303.2	303.9
160°	265.2	267.6	270.0	270.6	274.3	279.3	281.8	285.9	294.0	300.1	300.5
162.5°	269.6	271.5	273.2	273.7	276.3	280.0	281.8	285.2	292.1	297.3	297.7
165°	274.5	276.1	277.8	278.2	279.4	281.0	281.8	284.3	289.2	292.9	293.3
167.5°	278.9	279.7	280.5	280.6	281.7	283.0	283.7	285.3	288.6	291.0	291.2
170°	281.8	282.6	283.3	283.5	283.6	283.7	283.7	285.3	288.6	291.0	291.0
172.5°	283.3	283.5	283.7	283.7	283.7	283.7	283.7	284.9	287.5	289.4	289.2
175°	285.4	285.4	285.4	285.4	284.8	284.1	283.7	284.5	286.1	287.3	287.3
177.5°	285.4	285.4	285.4	285.4	284.9	284.4	284.1	284.8	286.0	287.0	286.8
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



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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°	7.3	7.3	7.3	7.3	7.3	9.7	12.9	14.5	12.5	8.4	5.4
92.5°	29.2	23.3	29.2	35.0	36.4	51.6	71.8	81.9	72.0	52.0	37.0
95°	101.6	84.0	101.6	119.1	123.5	162.3	213.8	239.6	202.3	127.8	72.0
97.5°	243.4	210.1	243.4	276.9	285.2	309.7	342.3	358.6	296.4	172.2	79.1
100°	350.8	311.0	350.8	390.6	400.5	398.7	396.3	395.1	326.2	188.4	85.0
102.5°	456.4	422.4	456.4	490.4	498.9	467.8	426.3	405.5	335.6	195.8	90.9
105°	591.0	572.7	591.0	609.3	613.9	544.1	450.9	404.4	336.7	201.4	99.8
107.5°	679.2	683.6	679.2	674.8	673.6	576.2	446.3	381.3	321.7	202.3	112.8
110°	712.7	731.9	712.7	693.7	688.9	580.0	434.8	362.2	308.4	200.8	120.1



TEST NUMBER: P933848

CATALOG NUMBER: SQ4-FA-025U-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°	715.8	745.1	715.8	686.5	679.2	567.7	419.1	344.8	296.8	200.9	128.9
115°	696.9	737.4	696.9	656.2	646.1	538.7	395.5	323.9	283.5	202.7	142.1
117.5°	656.6	701.7	656.6	611.6	600.3	503.3	374.2	309.5	275.2	206.5	155.0
120°	624.1	667.9	624.1	580.3	569.4	480.9	362.8	303.8	272.4	209.6	162.5
122.5°	592.6	635.7	592.6	549.4	538.6	458.9	352.5	299.4	270.9	214.0	171.3
125°	547.5	587.3	547.5	507.7	497.8	430.1	339.7	294.6	269.7	219.9	182.5
127.5°	507.0	540.5	507.0	473.5	465.1	407.0	329.4	290.6	269.0	225.9	193.4
130°	483.1	514.0	483.1	452.1	444.3	392.6	323.6	289.1	269.5	230.2	200.7
132.5°	461.5	489.2	461.5	433.7	426.7	380.4	318.6	287.7	269.7	233.7	206.6
135°	431.7	455.6	431.7	407.8	401.9	363.1	311.3	285.4	269.5	237.5	213.6
137.5°	407.9	427.5	407.9	388.3	383.4	350.6	306.9	285.0	271.1	243.3	222.4
140°	391.6	409.9	391.6	373.3	368.7	340.4	302.6	283.7	271.4	246.8	228.3
142.5°	378.1	393.8	378.1	362.3	358.4	333.5	300.3	283.7	272.4	249.8	232.7
145°	357.8	369.7	357.8	345.9	342.9	322.5	295.4	281.8	272.4	253.6	239.4
147.5°	342.1	352.1	342.1	332.3	329.8	313.8	292.5	281.8	274.2	259.1	247.8
150°	332.4	340.4	332.4	324.3	322.3	308.9	290.8	281.8	275.2	262.1	252.2
152.5°	324.0	330.0	324.0	317.9	316.4	304.8	289.4	281.8	275.9	264.0	255.1
155°	314.3	318.3	314.3	310.3	309.3	300.1	287.9	281.8	277.3	268.2	261.4
157.5°	306.7	309.5	306.7	303.9	303.2	296.0	286.6	281.8	278.6	272.4	267.7
160°	302.2	303.8	302.2	300.5	300.1	294.0	285.9	281.8	279.3	274.3	270.6
162.5°	299.2	300.7	299.2	297.7	297.3	292.1	285.2	281.8	280.0	276.3	273.7
165°	294.9	296.5	294.9	293.3	292.9	289.2	284.3	281.8	281.0	279.4	278.2
167.5°	291.8	292.5	291.8	291.2	291.0	288.6	285.3	283.7	283.0	281.7	280.6
170°	291.0	291.0	291.0	291.0	291.0	288.6	285.3	283.7	283.7	283.6	283.5
172.5°	288.7	288.1	288.7	289.2	289.4	287.5	284.9	283.7	283.7	283.7	283.7
175°	287.3	287.3	287.3	287.3	287.3	286.1	284.5	283.7	284.1	284.8	285.4
177.5°	286.1	285.4	286.1	286.8	287.0	286.0	284.8	284.1	284.4	284.9	285.4
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



TEST NUMBER: P933848

CATALOG NUMBER: SQ4-FA-025U-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°	5.0	3.4	1.9	3.4	5.0	5.4	8.4	12.5	14.5	12.9	9.7
92.5°	33.8	20.7	7.6	20.7	33.8	37.0	52.0	72.0	81.9	71.8	51.6
95°	66.1	42.2	18.4	42.2	66.1	72.0	127.8	202.3	239.6	213.8	162.3
97.5°	73.8	52.9	31.8	52.9	73.8	79.1	172.2	296.4	358.6	342.3	309.7
100°	80.2	61.2	42.2	61.2	80.2	85.0	188.4	326.2	395.1	396.3	398.7
102.5°	86.5	68.8	51.0	68.8	86.5	90.9	195.8	335.6	405.5	426.3	467.8
105°	96.1	81.0	65.9	81.0	96.1	99.8	201.4	336.7	404.4	450.9	544.1
107.5°	109.3	95.2	81.2	95.2	109.3	112.8	202.3	321.7	381.3	446.3	576.2
110°	116.9	104.2	91.6	104.2	116.9	120.1	200.8	308.4	362.2	434.8	580.0



TEST NUMBER: P933848

CATALOG NUMBER: SQ4-FA-025U-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°	125.8	113.8	101.7	113.8	125.8	128.9	200.9	296.8	344.8	419.1	567.7
115°	139.3	128.1	117.0	128.1	139.3	142.1	202.7	283.5	323.9	395.5	538.7
117.5°	152.4	142.3	132.1	142.3	152.4	155.0	206.5	275.2	309.5	374.2	503.3
120°	160.1	150.5	140.9	150.5	160.1	162.5	209.6	272.4	303.8	362.8	480.9
122.5°	168.9	159.2	149.5	159.2	168.9	171.3	214.0	270.9	299.4	352.5	458.9
125°	180.3	171.6	162.8	171.6	180.3	182.5	219.9	269.7	294.6	339.7	430.1
127.5°	191.2	182.3	173.5	182.3	191.2	193.4	225.9	269.0	290.6	329.4	407.0
130°	198.3	188.8	179.3	188.8	198.3	200.7	230.2	269.5	289.1	323.6	392.6
132.5°	204.2	194.8	185.2	194.8	204.2	206.6	233.7	269.7	287.7	318.6	380.4
135°	211.4	202.7	194.0	202.7	211.4	213.6	237.5	269.5	285.4	311.3	363.1
137.5°	220.2	211.6	203.0	211.6	220.2	222.4	243.3	271.1	285.0	306.9	350.6
140°	226.3	218.4	210.5	218.4	226.3	228.3	246.8	271.4	283.7	302.6	340.4
142.5°	230.9	223.6	216.3	223.6	230.9	232.7	249.8	272.4	283.7	300.3	333.5
145°	237.8	231.5	225.1	231.5	237.8	239.4	253.6	272.4	281.8	295.4	322.5
147.5°	246.3	240.1	233.9	240.1	246.3	247.8	259.1	274.2	281.8	292.5	313.8
150°	250.8	245.3	239.6	245.3	250.8	252.2	262.1	275.2	281.8	290.8	308.9
152.5°	254.1	249.8	245.6	249.8	254.1	255.1	264.0	275.9	281.8	289.4	304.8
155°	260.7	257.5	254.3	257.5	260.7	261.4	268.2	277.3	281.8	287.9	300.1
157.5°	267.0	263.9	260.8	263.9	267.0	267.7	272.4	278.6	281.8	286.6	296.0
160°	270.0	267.6	265.2	267.6	270.0	270.6	274.3	279.3	281.8	285.9	294.0
162.5°	273.2	271.5	269.6	271.5	273.2	273.7	276.3	280.0	281.8	285.2	292.1
165°	277.8	276.1	274.5	276.1	277.8	278.2	279.4	281.0	281.8	284.3	289.2
167.5°	280.5	279.7	278.9	279.7	280.5	280.6	281.7	283.0	283.7	285.3	288.6
170°	283.3	282.6	281.8	282.6	283.3	283.5	283.6	283.7	283.7	285.3	288.6
172.5°	283.7	283.5	283.3	283.5	283.7	283.7	283.7	283.7	283.7	284.9	287.5
175°	285.4	285.4	285.4	285.4	285.4	285.4	284.8	284.1	283.7	284.5	286.1
177.5°	285.4	285.4	285.4	285.4	285.4	285.4	284.9	284.4	284.1	284.8	286.0
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



TEST NUMBER: P933848

CATALOG NUMBER: SQ4-FA-025U-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°	7.3	7.3	7.3	7.3	7.3	7.3	7.3	9.7	12.9	14.5	12.5
92.5°	36.4	35.0	29.2	23.3	29.2	35.0	36.4	51.6	71.8	81.9	72.0
95°	123.5	119.1	101.6	84.0	101.6	119.1	123.5	162.3	213.8	239.6	202.3
97.5°	285.2	276.9	243.4	210.1	243.4	276.9	285.2	309.7	342.3	358.6	296.4
100°	400.5	390.6	350.8	311.0	350.8	390.6	400.5	398.7	396.3	395.1	326.2
102.5°	498.9	490.4	456.4	422.4	456.4	490.4	498.9	467.8	426.3	405.5	335.6
105°	613.9	609.3	591.0	572.7	591.0	609.3	613.9	544.1	450.9	404.4	336.7
107.5°	673.6	674.8	679.2	683.6	679.2	674.8	673.6	576.2	446.3	381.3	321.7
110°	688.9	693.7	712.7	731.9	712.7	693.7	688.9	580.0	434.8	362.2	308.4



TEST NUMBER: P933848

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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	679.2	686.5	715.8	745.1	715.8	686.5	679.2	567.7	419.1	344.8	296.8
115°	646.1	656.2	696.9	737.4	696.9	656.2	646.1	538.7	395.5	323.9	283.5
117.5°	600.3	611.6	656.6	701.7	656.6	611.6	600.3	503.3	374.2	309.5	275.2
120°	569.4	580.3	624.1	667.9	624.1	580.3	569.4	480.9	362.8	303.8	272.4
122.5°	538.6	549.4	592.6	635.7	592.6	549.4	538.6	458.9	352.5	299.4	270.9
125°	497.8	507.7	547.5	587.3	547.5	507.7	497.8	430.1	339.7	294.6	269.7
127.5°	465.1	473.5	507.0	540.5	507.0	473.5	465.1	407.0	329.4	290.6	269.0
130°	444.3	452.1	483.1	514.0	483.1	452.1	444.3	392.6	323.6	289.1	269.5
132.5°	426.7	433.7	461.5	489.2	461.5	433.7	426.7	380.4	318.6	287.7	269.7
135°	401.9	407.8	431.7	455.6	431.7	407.8	401.9	363.1	311.3	285.4	269.5
137.5°	383.4	388.3	407.9	427.5	407.9	388.3	383.4	350.6	306.9	285.0	271.1
140°	368.7	373.3	391.6	409.9	391.6	373.3	368.7	340.4	302.6	283.7	271.4
142.5°	358.4	362.3	378.1	393.8	378.1	362.3	358.4	333.5	300.3	283.7	272.4
145°	342.9	345.9	357.8	369.7	357.8	345.9	342.9	322.5	295.4	281.8	272.4
147.5°	329.8	332.3	342.1	352.1	342.1	332.3	329.8	313.8	292.5	281.8	274.2
150°	322.3	324.3	332.4	340.4	332.4	324.3	322.3	308.9	290.8	281.8	275.2
152.5°	316.4	317.9	324.0	330.0	324.0	317.9	316.4	304.8	289.4	281.8	275.9
155°	309.3	310.3	314.3	318.3	314.3	310.3	309.3	300.1	287.9	281.8	277.3
157.5°	303.2	303.9	306.7	309.5	306.7	303.9	303.2	296.0	286.6	281.8	278.6
160°	300.1	300.5	302.2	303.8	302.2	300.5	300.1	294.0	285.9	281.8	279.3
162.5°	297.3	297.7	299.2	300.7	299.2	297.7	297.3	292.1	285.2	281.8	280.0
165°	292.9	293.3	294.9	296.5	294.9	293.3	292.9	289.2	284.3	281.8	281.0
167.5°	291.0	291.2	291.8	292.5	291.8	291.2	291.0	288.6	285.3	283.7	283.0
170°	291.0	291.0	291.0	291.0	291.0	291.0	291.0	288.6	285.3	283.7	283.7
172.5°	289.4	289.2	288.7	288.1	288.7	289.2	289.4	287.5	284.9	283.7	283.7
175°	287.3	287.3	287.3	287.3	287.3	287.3	287.3	286.1	284.5	283.7	284.1
177.5°	287.0	286.8	286.1	285.4	286.1	286.8	287.0	286.0	284.8	284.1	284.4
180°	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4	285.4



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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°	8.4	5.4	5.0	3.4	1.9
92.5°	52.0	37.0	33.8	20.7	7.6
95°	127.8	72.0	66.1	42.2	18.4
97.5°	172.2	79.1	73.8	52.9	31.8
100°	188.4	85.0	80.2	61.2	42.2
102.5°	195.8	90.9	86.5	68.8	51.0
105°	201.4	99.8	96.1	81.0	65.9
107.5°	202.3	112.8	109.3	95.2	81.2
110°	200.8	120.1	116.9	104.2	91.6



TEST NUMBER: P933848

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-6500K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	200.9	128.9	125.8	113.8	101.7
115°	202.7	142.1	139.3	128.1	117.0
117.5°	206.5	155.0	152.4	142.3	132.1
120°	209.6	162.5	160.1	150.5	140.9
122.5°	214.0	171.3	168.9	159.2	149.5
125°	219.9	182.5	180.3	171.6	162.8
127.5°	225.9	193.4	191.2	182.3	173.5
130°	230.2	200.7	198.3	188.8	179.3
132.5°	233.7	206.6	204.2	194.8	185.2
135°	237.5	213.6	211.4	202.7	194.0
137.5°	243.3	222.4	220.2	211.6	203.0
140°	246.8	228.3	226.3	218.4	210.5
142.5°	249.8	232.7	230.9	223.6	216.3
145°	253.6	239.4	237.8	231.5	225.1
147.5°	259.1	247.8	246.3	240.1	233.9
150°	262.1	252.2	250.8	245.3	239.6
152.5°	264.0	255.1	254.1	249.8	245.6
155°	268.2	261.4	260.7	257.5	254.3
157.5°	272.4	267.7	267.0	263.9	260.8
160°	274.3	270.6	270.0	267.6	265.2
162.5°	276.3	273.7	273.2	271.5	269.6
165°	279.4	278.2	277.8	276.1	274.5
167.5°	281.7	280.6	280.5	279.7	278.9
170°	283.6	283.5	283.3	282.6	281.8
172.5°	283.7	283.7	283.7	283.5	283.3
175°	284.8	285.4	285.4	285.4	285.4
177.5°	284.9	285.4	285.4	285.4	285.4
180°	285.4	285.4	285.4	285.4	285.4



TEST NUMBER: P933848

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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	12.52	13.54	13.33	14.37	15.40	15.36	16.38	16.17	17.21	18.24
	3H	13.01	13.92	13.83	14.77	15.82	16.72	17.63	17.54	18.48	19.53
	4H	13.21	14.07	14.05	14.92	15.99	17.17	18.03	18.01	18.88	19.95
	6H	13.33	14.13	14.19	14.99	16.07	17.46	18.26	18.32	19.12	20.20
	8H	13.34	14.10	14.20	14.97	16.06	17.54	18.30	18.41	19.18	20.26
	12H	13.31	14.04	14.18	14.91	16.02	17.59	18.31	18.46	19.18	20.29
4H	2H	13.57	14.44	14.42	15.29	16.36	15.78	16.65	16.63	17.50	18.57
	3H	14.61	15.33	15.47	16.22	17.30	17.31	18.03	18.16	18.91	20.00
	4H	14.90	15.55	15.77	16.43	17.55	17.84	18.50	18.71	19.38	20.49
	6H	15.03	15.60	15.92	16.50	17.62	18.22	18.79	19.11	19.69	20.81
	8H	15.04	15.57	15.93	16.47	17.60	18.33	18.86	19.22	19.76	20.89
	12H	15.01	15.49	15.92	16.41	17.54	18.40	18.87	19.31	19.79	20.93
8H	4H	15.36	15.89	16.25	16.79	17.92	17.98	18.51	18.87	19.41	20.54
	6H	15.63	16.07	16.55	17.01	18.14	18.43	18.86	19.34	19.80	20.93
	8H	15.68	16.06	16.60	17.00	18.14	18.58	18.97	19.51	19.90	21.05
	12H	15.67	16.01	16.60	16.94	18.13	18.69	19.03	19.62	19.96	21.15
12H	4H	15.38	15.85	16.29	16.77	17.91	17.95	18.43	18.86	19.35	20.48
	6H	15.69	16.08	16.62	17.02	18.16	18.42	18.81	19.35	19.75	20.89
	8H	15.77	16.11	16.70	17.04	18.23	18.59	18.94	19.52	19.86	21.06