

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: P933868

Luminaire Tested: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933868
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-93050-1D-UNV-STD-W-8-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

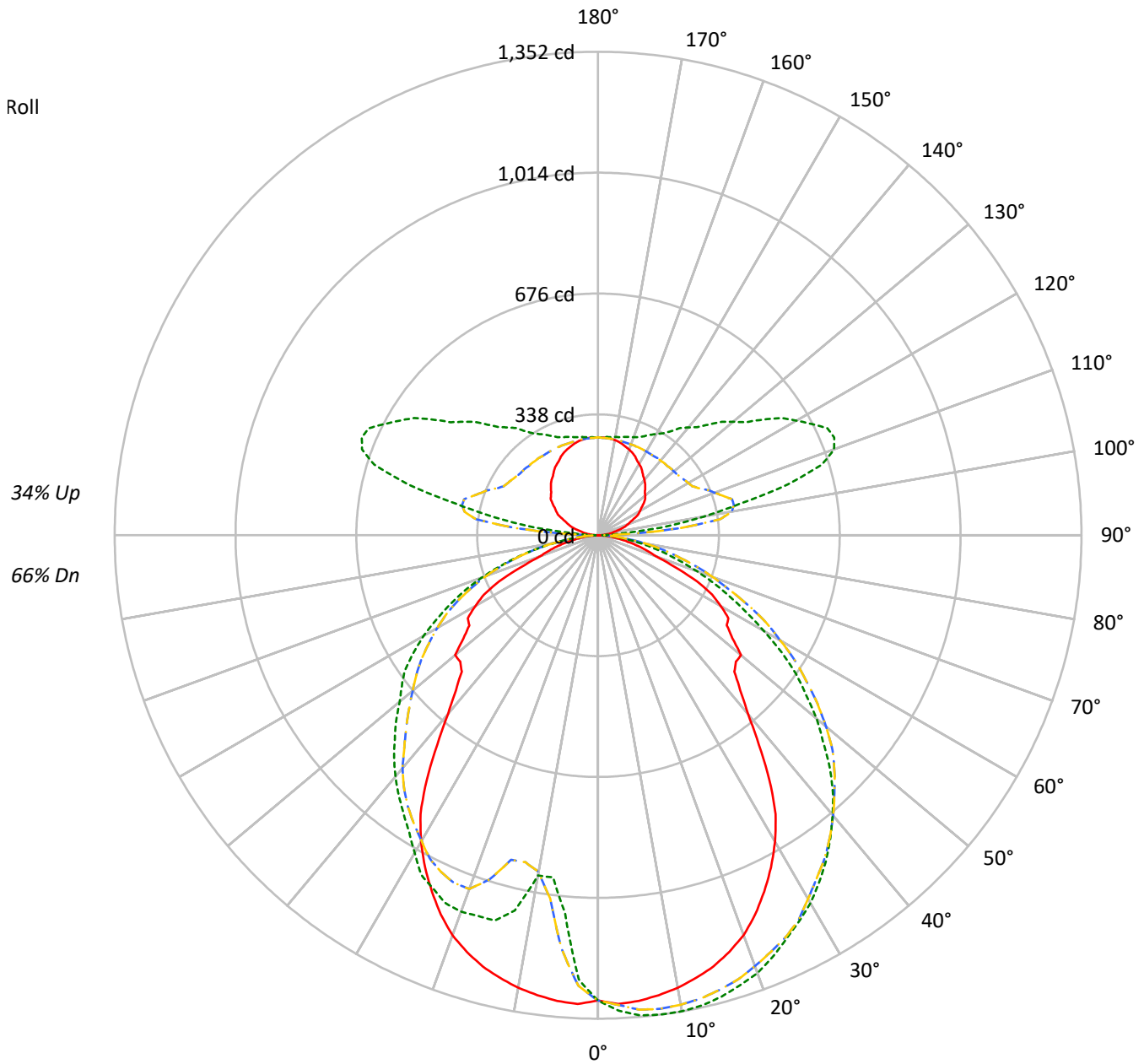
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5150.1 lumens
Efficiency: N/A
Efficacy: 117.0 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 (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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Luminous Intensity Polar Plot



— 0°-180° - - 45°-225° - · - 90°-270° - · - 135°-315°



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

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

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	6037	6037	6037	6037
5°	6082	6093	6082	4791
10°	6041	6003	6041	4291
15°	5975	5872	5975	4904
20°	5850	5718	5850	4914
25°	5594	5494	5594	4810
30°	5264	5307	5264	4581
35°	4692	5071	4692	4330
40°	3910	4793	3910	4140
45°	3494	4468	3494	3922
50°	3712	4081	3712	3703
55°	3492	3663	3492	3575
60°	3600	3111	3600	3275
65°	3263	2572	3263	2875
70°	2260	2049	2260	2409
75°	1982	1515	1982	1814
80°	1597	1002	1597	1090
85°	918	531	918	450

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5355 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.4	2.3
10°-20°	333.5	6.5
20°-30°	515.5	10.0
30°-40°	615.4	11.9
40°-50°	619.0	12.0
50°-60°	538.6	10.5
60°-70°	381.9	7.4
70°-80°	202.0	3.9
80°-90°	51.4	1.0
90°-100°	133.5	2.6
100°-110°	351.0	6.8
110°-120°	364.0	7.1
120°-130°	292.0	5.7
130°-140°	229.1	4.4
140°-150°	175.8	3.4
150°-160°	126.6	2.5
160°-170°	77.5	1.5
170°-180°	26.2	0.5
0°-30°	966.4	18.8
0°-40°	1581.7	30.7
0°-60°	2739.3	53.2
0°-90°	3374.5	65.5
90°-120°	848.5	16.5
90°-150°	1545.4	30.0
90°-180°	1776.0	34.5
0°-180°	5150.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1301	1301	1301	1301	1301	
5°	1307	1348	1307	1060	1307	124
15°	1248	1336	1248	1115	1248	351
25°	1099	1246	1099	1091	1099	505
35°	836	1112	836	949	836	517
45°	539	916	539	804	539	432
55°	439	676	439	660	439	404
65°	305	408	305	456	305	292
75°	116	193	116	231	116	122
85°	20	49	20	42	20	27
90°	2	7	2	7	2	2
95°	18	81	18	81	18	20
105°	63	550	63	550	63	67
115°	112	708	112	708	112	111
125°	156	564	156	564	156	139
135°	186	437	186	437	186	144
145°	216	355	216	355	216	135
155°	244	306	244	306	244	112
165°	264	285	264	285	264	74
175°	274	276	274	276	274	26
180°	274	274	274	274	274	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1312.1	1312.1	1319.6	1322.0	1322.0	1318.3	1314.6	1318.3	1329.4	1333.0	1331.9
5°	1307.3	1317.1	1330.7	1333.0	1335.5	1334.3	1331.9	1334.3	1346.6	1349.1	1350.3
7.5°	1297.3	1315.9	1333.0	1336.8	1340.5	1336.8	1335.5	1338.0	1350.3	1352.8	1352.8
10°	1285.0	1310.9	1330.7	1333.0	1336.8	1333.0	1333.0	1338.0	1350.3	1352.8	1354.0
12.5°	1267.8	1303.5	1322.0	1324.4	1329.4	1328.2	1326.9	1331.9	1344.1	1346.6	1346.6
15°	1248.2	1290.0	1307.3	1309.6	1318.3	1315.9	1315.9	1320.7	1334.3	1338.0	1336.8
17.5°	1221.1	1272.8	1292.5	1296.2	1302.3	1301.1	1302.3	1307.3	1319.6	1322.0	1323.2
20°	1190.3	1249.3	1272.8	1276.4	1282.6	1282.6	1282.6	1288.7	1301.1	1306.0	1306.0
22.5°	1148.4	1224.8	1249.3	1251.8	1259.3	1259.3	1261.6	1270.3	1281.4	1282.6	1282.6
25°	1099.2	1197.7	1218.6	1225.9	1233.4	1237.1	1240.7	1245.7	1249.3	1248.2	1249.3
27.5°	1047.5	1163.2	1190.3	1195.2	1205.0	1208.8	1213.7	1214.9	1216.1	1219.8	1217.4
30°	989.6	1115.2	1155.8	1160.8	1176.8	1179.2	1174.3	1176.8	1182.9	1185.4	1187.9
32.5°	924.4	1043.8	1120.1	1131.2	1146.0	1138.6	1137.4	1141.1	1150.9	1150.9	1153.4
35°	835.7	988.4	1086.9	1096.7	1107.8	1099.2	1104.2	1105.4	1111.5	1115.2	1114.0
37.5°	738.6	940.5	1052.4	1059.8	1068.5	1057.4	1064.7	1068.5	1073.3	1070.9	1070.9
40°	652.4	865.3	1011.9	1016.7	1024.1	1015.5	1022.9	1025.3	1027.8	1025.3	1024.1
42.5°	588.3	782.9	968.7	974.9	969.9	976.2	978.5	983.5	979.8	974.9	974.9
45°	539.1	760.7	921.9	929.3	921.9	931.8	935.5	935.5	924.4	921.9	920.7
47.5°	523.2	716.4	875.2	875.2	871.4	883.8	890.0	881.4	870.3	866.6	866.6
50°	521.9	667.2	811.2	806.3	823.4	838.2	832.1	823.4	814.8	801.3	801.3
52.5°	473.9	606.9	728.7	747.2	774.3	782.9	773.0	764.4	749.7	743.4	738.6
55°	439.4	544.1	653.6	690.6	718.8	729.9	711.5	702.9	680.7	677.0	674.5
57.5°	432.1	453.0	584.7	631.5	665.9	664.7	653.6	637.6	619.2	615.5	614.2
60°	396.4	327.4	510.8	566.2	601.9	598.2	588.3	573.6	556.4	553.9	551.4
62.5°	359.5	237.6	427.1	489.9	540.3	539.1	530.5	508.4	496.0	489.9	485.0
65°	305.2	199.4	304.0	407.5	480.0	482.5	464.1	448.0	434.5	427.1	425.9
67.5°	232.6	162.5	205.6	339.7	422.2	419.8	396.4	389.0	371.8	368.1	360.7
70°	172.3	108.3	142.8	275.8	365.6	359.5	340.9	332.4	316.3	307.7	302.8
72.5°	142.8	87.4	104.6	214.2	307.7	300.4	284.3	274.5	261.0	253.6	248.6
75°	115.7	92.3	80.0	158.8	249.9	244.9	230.2	220.3	209.2	199.4	200.6
77.5°	85.0	86.2	64.0	116.9	198.2	190.8	182.2	169.9	164.9	155.1	155.1
80°	64.0	67.7	48.0	80.0	142.8	142.8	135.4	126.8	118.2	113.2	113.2
82.5°	43.0	43.0	35.7	50.5	97.3	93.5	88.6	86.2	81.2	78.7	78.7
85°	19.7	24.6	22.1	30.7	53.0	55.4	55.4	53.0	51.7	49.3	50.5
87.5°	6.1	11.1	13.6	17.3	27.1	28.4	29.5	29.5	29.5	30.7	30.7
90°	1.8	3.3	4.8	5.1	8.1	12.0	13.9	12.4	9.3	7.0	7.0
92.5°	7.3	19.8	32.4	35.5	49.9	69.1	78.6	68.9	49.6	35.0	33.6
95°	17.6	40.5	63.4	69.1	122.7	194.2	230.0	205.2	155.7	118.6	114.3
97.5°	30.6	50.7	70.8	75.9	165.3	284.5	344.1	328.5	297.2	273.7	265.8
100°	40.5	58.7	77.0	81.6	180.8	313.0	379.2	380.4	382.7	384.4	374.9
102.5°	48.9	66.0	83.1	87.3	187.9	322.1	389.2	409.1	448.9	478.9	470.7
105°	63.2	77.7	92.2	95.8	193.3	323.1	388.1	432.8	522.2	589.2	584.8
107.5°	77.9	91.4	104.9	108.3	194.2	308.7	366.0	428.3	553.0	646.5	647.6
110°	87.9	100.0	112.2	115.3	192.7	296.0	347.6	417.3	556.7	661.2	665.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	97.6	109.2	120.8	123.7	192.8	284.9	330.9	402.2	544.8	651.8	658.9
115°	112.3	123.0	133.7	136.4	194.6	272.1	310.8	379.6	517.0	620.1	629.8
117.5°	126.8	136.6	146.3	148.8	198.2	264.1	297.1	359.1	483.1	576.1	587.0
120°	135.3	144.4	153.6	155.9	201.2	261.5	291.6	348.2	461.5	546.5	556.9
122.5°	143.5	152.8	162.1	164.4	205.4	260.0	287.3	338.4	440.4	516.9	527.3
125°	156.3	164.7	173.1	175.2	211.1	258.9	282.7	326.1	412.8	477.8	487.3
127.5°	166.6	175.0	183.5	185.6	216.8	258.1	278.9	316.1	390.6	446.4	454.4
130°	172.1	181.2	190.3	192.6	220.9	258.6	277.4	310.5	376.8	426.5	433.9
132.5°	177.8	186.9	196.0	198.3	224.3	258.9	276.1	305.8	365.1	409.6	416.3
135°	186.2	194.6	202.9	205.0	228.0	258.6	273.9	298.8	348.4	385.7	391.4
137.5°	194.8	203.1	211.3	213.5	233.5	260.2	273.6	294.6	336.5	368.0	372.7
140°	202.0	209.6	217.2	219.1	236.9	260.4	272.3	290.5	326.7	353.9	358.3
142.5°	207.6	214.6	221.6	223.4	239.7	261.5	272.3	288.2	320.1	344.0	347.7
145°	216.0	222.2	228.2	229.8	243.4	261.5	270.4	283.5	309.5	329.1	331.9
147.5°	224.5	230.4	236.4	237.9	248.7	263.2	270.4	280.7	301.2	316.5	318.9
150°	230.0	235.4	240.7	242.1	251.5	264.1	270.4	279.1	296.4	309.4	311.3
152.5°	235.7	239.7	243.8	244.8	253.4	264.8	270.4	277.8	292.6	303.7	305.1
155°	244.1	247.1	250.2	250.9	257.4	266.1	270.4	276.3	288.1	296.9	297.8
157.5°	250.3	253.3	256.2	257.0	261.5	267.4	270.4	275.0	284.1	291.0	291.6
160°	254.6	256.9	259.2	259.7	263.3	268.1	270.4	274.4	282.2	288.1	288.4
162.5°	258.8	260.5	262.2	262.6	265.2	268.7	270.4	273.7	280.4	285.3	285.7
165°	263.5	265.0	266.6	267.0	268.2	269.7	270.4	272.8	277.5	281.1	281.5
167.5°	267.7	268.4	269.2	269.3	270.4	271.6	272.3	273.8	277.0	279.3	279.4
170°	270.4	271.2	271.9	272.1	272.2	272.3	272.3	273.8	277.0	279.3	279.3
172.5°	271.9	272.1	272.3	272.3	272.3	272.3	272.3	273.5	276.0	277.8	277.6
175°	273.9	273.9	273.9	273.9	273.4	272.6	272.3	273.0	274.6	275.8	275.8
177.5°	273.9	273.9	273.9	273.9	273.5	272.9	272.6	273.3	274.5	275.4	275.2
180°	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1334.3	1330.7	1334.3	1331.9	1333.0	1329.4	1318.3	1314.6	1318.3	1322.0	1322.0
5°	1350.3	1347.8	1350.3	1350.3	1349.1	1346.6	1334.3	1331.9	1334.3	1335.5	1333.0
7.5°	1355.3	1351.6	1355.3	1352.8	1352.8	1350.3	1338.0	1335.5	1336.8	1340.5	1336.8
10°	1355.3	1351.6	1355.3	1354.0	1352.8	1350.3	1338.0	1333.0	1333.0	1336.8	1333.0
12.5°	1349.1	1346.6	1349.1	1346.6	1346.6	1344.1	1331.9	1326.9	1328.2	1329.4	1324.4
15°	1339.2	1335.5	1339.2	1336.8	1338.0	1334.3	1320.7	1315.9	1315.9	1318.3	1309.6
17.5°	1324.4	1319.6	1324.4	1323.2	1322.0	1319.6	1307.3	1302.3	1301.1	1302.3	1296.2
20°	1307.3	1303.5	1307.3	1306.0	1306.0	1301.1	1288.7	1282.6	1282.6	1282.6	1276.4
22.5°	1280.2	1276.4	1280.2	1282.6	1282.6	1281.4	1270.3	1261.6	1259.3	1259.3	1251.8
25°	1249.3	1245.7	1249.3	1249.3	1248.2	1249.3	1245.7	1240.7	1237.1	1233.4	1225.9
27.5°	1219.8	1217.4	1219.8	1217.4	1219.8	1216.1	1214.9	1213.7	1208.8	1205.0	1195.2
30°	1190.3	1187.9	1190.3	1187.9	1185.4	1182.9	1176.8	1174.3	1179.2	1176.8	1160.8
32.5°	1153.4	1150.9	1153.4	1153.4	1150.9	1150.9	1141.1	1137.4	1138.6	1146.0	1131.2
35°	1115.2	1111.5	1115.2	1114.0	1115.2	1111.5	1105.4	1104.2	1099.2	1107.8	1096.7
37.5°	1070.9	1067.2	1070.9	1070.9	1070.9	1073.3	1068.5	1064.7	1057.4	1068.5	1059.8
40°	1025.3	1020.4	1025.3	1024.1	1025.3	1027.8	1025.3	1022.9	1015.5	1024.1	1016.7
42.5°	973.7	972.4	973.7	974.9	974.9	979.8	983.5	978.5	976.2	969.9	974.9
45°	918.2	915.8	918.2	920.7	921.9	924.4	935.5	935.5	931.8	921.9	929.3
47.5°	859.1	853.0	859.1	866.6	866.6	870.3	881.4	890.0	883.8	871.4	875.2
50°	796.4	797.7	796.4	801.3	801.3	814.8	823.4	832.1	838.2	823.4	806.3
52.5°	734.9	733.6	734.9	738.6	743.4	749.7	764.4	773.0	782.9	774.3	747.2
55°	673.3	675.8	673.3	674.5	677.0	680.7	702.9	711.5	729.9	718.8	690.6
57.5°	611.7	608.1	611.7	614.2	615.5	619.2	637.6	653.6	664.7	665.9	631.5
60°	540.3	535.5	540.3	551.4	553.9	556.4	573.6	588.3	598.2	601.9	566.2
62.5°	477.6	468.9	477.6	485.0	489.9	496.0	508.4	530.5	539.1	540.3	489.9
65°	411.1	407.5	411.1	425.9	427.1	434.5	448.0	464.1	482.5	480.0	407.5
67.5°	350.8	350.8	350.8	360.7	368.1	371.8	389.0	396.4	419.8	422.2	339.7
70°	295.4	294.2	295.4	302.8	307.7	316.3	332.4	340.9	359.5	365.6	275.8
72.5°	242.5	241.3	242.5	248.6	253.6	261.0	274.5	284.3	300.4	307.7	214.2
75°	195.7	193.3	195.7	200.6	199.4	209.2	220.3	230.2	244.9	249.9	158.8
77.5°	150.1	150.1	150.1	155.1	155.1	164.9	169.9	182.2	190.8	198.2	116.9
80°	112.1	110.8	112.1	113.2	113.2	118.2	126.8	135.4	142.8	142.8	80.0
82.5°	78.7	76.4	78.7	78.7	78.7	81.2	86.2	88.6	93.5	97.3	50.5
85°	49.3	49.3	49.3	50.5	49.3	51.7	53.0	55.4	55.4	53.0	30.7
87.5°	32.0	30.7	32.0	30.7	30.7	29.5	29.5	29.5	28.4	27.1	17.3
90°	7.0	7.0	7.0	7.0	7.0	9.3	12.4	13.9	12.0	8.1	5.1
92.5°	28.0	22.4	28.0	33.6	35.0	49.6	68.9	78.6	69.1	49.9	35.5
95°	97.6	80.7	97.6	114.3	118.6	155.7	205.2	230.0	194.2	122.7	69.1
97.5°	233.6	201.6	233.6	265.8	273.7	297.2	328.5	344.1	284.5	165.3	75.9
100°	336.7	298.5	336.7	374.9	384.4	382.7	380.4	379.2	313.0	180.8	81.6
102.5°	438.0	405.3	438.0	470.7	478.9	448.9	409.1	389.2	322.1	187.9	87.3
105°	567.2	549.6	567.2	584.8	589.2	522.2	432.8	388.1	323.1	193.3	95.8
107.5°	651.8	656.1	651.8	647.6	646.5	553.0	428.3	366.0	308.7	194.2	108.3
110°	684.0	702.4	684.0	665.8	661.2	556.7	417.3	347.6	296.0	192.7	115.3



TEST NUMBER: P933868

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	687.0	715.1	687.0	658.9	651.8	544.8	402.2	330.9	284.9	192.8	123.7
115°	668.8	707.7	668.8	629.8	620.1	517.0	379.6	310.8	272.1	194.6	136.4
117.5°	630.2	673.4	630.2	587.0	576.1	483.1	359.1	297.1	264.1	198.2	148.8
120°	599.0	641.0	599.0	556.9	546.5	461.5	348.2	291.6	261.5	201.2	155.9
122.5°	568.7	610.1	568.7	527.3	516.9	440.4	338.4	287.3	260.0	205.4	164.4
125°	525.5	563.6	525.5	487.3	477.8	412.8	326.1	282.7	258.9	211.1	175.2
127.5°	486.6	518.8	486.6	454.4	446.4	390.6	316.1	278.9	258.1	216.8	185.6
130°	463.6	493.4	463.6	433.9	426.5	376.8	310.5	277.4	258.6	220.9	192.6
132.5°	442.9	469.5	442.9	416.3	409.6	365.1	305.8	276.1	258.9	224.3	198.3
135°	414.3	437.3	414.3	391.4	385.7	348.4	298.8	273.9	258.6	228.0	205.0
137.5°	391.5	410.3	391.5	372.7	368.0	336.5	294.6	273.6	260.2	233.5	213.5
140°	375.8	393.4	375.8	358.3	353.9	326.7	290.5	272.3	260.4	236.9	219.1
142.5°	362.9	377.9	362.9	347.7	344.0	320.1	288.2	272.3	261.5	239.7	223.4
145°	343.4	354.8	343.4	331.9	329.1	309.5	283.5	270.4	261.5	243.4	229.8
147.5°	328.4	337.9	328.4	318.9	316.5	301.2	280.7	270.4	263.2	248.7	237.9
150°	319.0	326.7	319.0	311.3	309.4	296.4	279.1	270.4	264.1	251.5	242.1
152.5°	310.9	316.7	310.9	305.1	303.7	292.6	277.8	270.4	264.8	253.4	244.8
155°	301.6	305.5	301.6	297.8	296.9	288.1	276.3	270.4	266.1	257.4	250.9
157.5°	294.4	297.1	294.4	291.6	291.0	284.1	275.0	270.4	267.4	261.5	257.0
160°	290.0	291.6	290.0	288.4	288.1	282.2	274.4	270.4	268.1	263.3	259.7
162.5°	287.1	288.6	287.1	285.7	285.3	280.4	273.7	270.4	268.7	265.2	262.6
165°	283.0	284.6	283.0	281.5	281.1	277.5	272.8	270.4	269.7	268.2	267.0
167.5°	280.1	280.7	280.1	279.4	279.3	277.0	273.8	272.3	271.6	270.4	269.3
170°	279.3	279.3	279.3	279.3	279.3	277.0	273.8	272.3	272.3	272.2	272.1
172.5°	277.1	276.5	277.1	277.6	277.8	276.0	273.5	272.3	272.3	272.3	272.3
175°	275.8	275.8	275.8	275.8	275.8	274.6	273.0	272.3	272.6	273.4	273.9
177.5°	274.6	273.9	274.6	275.2	275.4	274.5	273.3	272.6	272.9	273.5	273.9
180°	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9



TEST NUMBER: P933868

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1319.6	1312.1	1312.1	1299.8	1295.0	1291.2	1285.0	1266.6	1261.6	1256.8	1264.1
5°	1330.7	1317.1	1307.3	1285.0	1266.6	1259.3	1235.9	1191.5	1162.0	1139.8	1127.5
7.5°	1333.0	1315.9	1297.3	1262.9	1218.6	1198.9	1127.5	1046.3	1024.1	1004.4	992.1
10°	1330.7	1310.9	1285.0	1233.4	1128.8	1094.3	1022.9	969.9	956.4	952.8	956.4
12.5°	1322.0	1303.5	1267.8	1181.7	1035.2	1011.9	969.9	939.2	936.7	942.8	976.2
15°	1307.3	1290.0	1248.2	1112.7	983.5	966.2	936.7	925.7	939.2	982.3	1082.0
17.5°	1292.5	1272.8	1221.1	1045.1	944.1	931.8	910.9	933.0	1009.4	1067.2	1100.4
20°	1272.8	1249.3	1190.3	995.8	915.8	904.8	894.8	994.6	1052.4	1073.3	1091.8
22.5°	1249.3	1224.8	1148.4	961.4	886.2	877.7	883.8	1029.0	1052.4	1067.2	1083.2
25°	1218.6	1197.7	1099.2	934.3	862.9	853.0	876.4	1025.3	1038.9	1042.6	1074.6
27.5°	1190.3	1163.2	1047.5	909.6	834.6	830.9	882.5	1009.4	1019.2	1022.9	1057.4
30°	1155.8	1115.2	989.6	883.8	805.0	803.8	883.8	989.6	987.2	997.1	1031.5
32.5°	1120.1	1043.8	924.4	851.8	776.7	775.5	875.2	960.1	957.6	971.2	997.1
35°	1086.9	988.4	835.7	814.8	741.0	742.2	854.3	925.7	926.9	939.2	955.2
37.5°	1052.4	940.5	738.6	774.3	706.5	706.5	825.9	893.7	891.2	894.8	917.1
40°	1011.9	865.3	652.4	721.3	674.5	670.8	791.5	859.1	850.5	849.3	880.1
42.5°	968.7	782.9	588.3	651.2	637.6	632.7	749.7	817.3	801.3	805.0	844.4
45°	921.9	760.7	539.1	550.2	599.4	595.8	704.1	769.3	758.2	768.1	808.7
47.5°	875.2	716.4	523.2	456.6	558.9	557.6	653.6	722.5	716.4	726.3	769.3
50°	811.2	667.2	521.9	391.4	513.3	518.2	593.3	677.0	677.0	685.6	731.1
52.5°	728.7	606.9	473.9	354.5	460.3	475.1	540.3	637.6	640.1	648.7	689.3
55°	653.6	544.1	439.4	326.1	397.5	429.6	488.7	597.0	601.9	610.5	647.4
57.5°	584.7	453.0	432.1	292.9	339.7	370.5	443.2	557.6	560.1	567.4	603.1
60°	510.8	327.4	396.4	257.2	289.3	312.7	401.3	510.8	519.4	524.4	555.1
62.5°	427.1	237.6	359.5	232.6	264.7	269.5	366.8	466.6	477.6	481.3	499.8
65°	304.0	199.4	305.2	211.7	238.8	240.1	329.9	420.9	430.9	437.0	450.5
67.5°	205.6	162.5	232.6	192.0	219.1	220.3	294.2	368.1	381.6	386.5	395.2
70°	142.8	108.3	172.3	171.1	196.9	199.4	256.0	320.0	332.4	336.1	340.9
72.5°	104.6	87.4	142.8	153.9	173.5	176.0	216.7	265.9	278.2	281.9	284.3
75°	80.0	92.3	115.7	134.2	147.7	148.9	177.2	216.7	225.3	227.7	229.0
77.5°	64.0	86.2	85.0	108.3	120.6	118.2	139.1	167.4	174.8	174.8	174.8
80°	48.0	67.7	64.0	77.5	88.6	86.2	99.7	119.4	121.9	124.3	123.1
82.5°	35.7	43.0	43.0	49.3	59.1	56.6	66.4	77.5	77.5	77.5	80.0
85°	22.1	24.6	19.7	25.9	33.2	32.0	36.9	41.8	43.0	43.0	40.7
87.5°	13.6	11.1	6.1	9.8	14.8	14.8	17.3	18.4	17.3	17.3	17.3
90°	4.8	3.3	1.8	3.3	4.8	5.1	8.1	12.0	13.9	12.4	9.3
92.5°	32.4	19.8	7.3	19.8	32.4	35.5	49.9	69.1	78.6	68.9	49.6
95°	63.4	40.5	17.6	40.5	63.4	69.1	122.7	194.2	230.0	205.2	155.7
97.5°	70.8	50.7	30.6	50.7	70.8	75.9	165.3	284.5	344.1	328.5	297.2
100°	77.0	58.7	40.5	58.7	77.0	81.6	180.8	313.0	379.2	380.4	382.7
102.5°	83.1	66.0	48.9	66.0	83.1	87.3	187.9	322.1	389.2	409.1	448.9
105°	92.2	77.7	63.2	77.7	92.2	95.8	193.3	323.1	388.1	432.8	522.2
107.5°	104.9	91.4	77.9	91.4	104.9	108.3	194.2	308.7	366.0	428.3	553.0
110°	112.2	100.0	87.9	100.0	112.2	115.3	192.7	296.0	347.6	417.3	556.7



TEST NUMBER: P933868

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	120.8	109.2	97.6	109.2	120.8	123.7	192.8	284.9	330.9	402.2	544.8
115°	133.7	123.0	112.3	123.0	133.7	136.4	194.6	272.1	310.8	379.6	517.0
117.5°	146.3	136.6	126.8	136.6	146.3	148.8	198.2	264.1	297.1	359.1	483.1
120°	153.6	144.4	135.3	144.4	153.6	155.9	201.2	261.5	291.6	348.2	461.5
122.5°	162.1	152.8	143.5	152.8	162.1	164.4	205.4	260.0	287.3	338.4	440.4
125°	173.1	164.7	156.3	164.7	173.1	175.2	211.1	258.9	282.7	326.1	412.8
127.5°	183.5	175.0	166.6	175.0	183.5	185.6	216.8	258.1	278.9	316.1	390.6
130°	190.3	181.2	172.1	181.2	190.3	192.6	220.9	258.6	277.4	310.5	376.8
132.5°	196.0	186.9	177.8	186.9	196.0	198.3	224.3	258.9	276.1	305.8	365.1
135°	202.9	194.6	186.2	194.6	202.9	205.0	228.0	258.6	273.9	298.8	348.4
137.5°	211.3	203.1	194.8	203.1	211.3	213.5	233.5	260.2	273.6	294.6	336.5
140°	217.2	209.6	202.0	209.6	217.2	219.1	236.9	260.4	272.3	290.5	326.7
142.5°	221.6	214.6	207.6	214.6	221.6	223.4	239.7	261.5	272.3	288.2	320.1
145°	228.2	222.2	216.0	222.2	228.2	229.8	243.4	261.5	270.4	283.5	309.5
147.5°	236.4	230.4	224.5	230.4	236.4	237.9	248.7	263.2	270.4	280.7	301.2
150°	240.7	235.4	230.0	235.4	240.7	242.1	251.5	264.1	270.4	279.1	296.4
152.5°	243.8	239.7	235.7	239.7	243.8	244.8	253.4	264.8	270.4	277.8	292.6
155°	250.2	247.1	244.1	247.1	250.2	250.9	257.4	266.1	270.4	276.3	288.1
157.5°	256.2	253.3	250.3	253.3	256.2	257.0	261.5	267.4	270.4	275.0	284.1
160°	259.2	256.9	254.6	256.9	259.2	259.7	263.3	268.1	270.4	274.4	282.2
162.5°	262.2	260.5	258.8	260.5	262.2	262.6	265.2	268.7	270.4	273.7	280.4
165°	266.6	265.0	263.5	265.0	266.6	267.0	268.2	269.7	270.4	272.8	277.5
167.5°	269.2	268.4	267.7	268.4	269.2	269.3	270.4	271.6	272.3	273.8	277.0
170°	271.9	271.2	270.4	271.2	271.9	272.1	272.2	272.3	272.3	273.8	277.0
172.5°	272.3	272.1	271.9	272.1	272.3	272.3	272.3	272.3	272.3	273.5	276.0
175°	273.9	273.9	273.9	273.9	273.9	273.9	273.4	272.6	272.3	273.0	274.6
177.5°	273.9	273.9	273.9	273.9	273.9	273.9	273.5	272.9	272.6	273.3	274.5
180°	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9



TEST NUMBER: P933868

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1255.5	1251.8	1256.8	1243.2	1256.8	1251.8	1255.5	1264.1	1256.8	1261.6	1266.6
5°	1101.7	1095.5	1075.8	1059.8	1075.8	1095.5	1101.7	1127.5	1139.8	1162.0	1191.5
7.5°	984.7	979.8	974.9	965.0	974.9	979.8	984.7	992.1	1004.4	1024.1	1046.3
10°	958.9	960.1	967.5	966.2	967.5	960.1	958.9	956.4	952.8	956.4	969.9
12.5°	1025.3	1036.4	1077.0	1074.6	1077.0	1036.4	1025.3	976.2	942.8	936.7	939.2
15°	1101.7	1105.4	1114.0	1115.2	1114.0	1105.4	1101.7	1082.0	982.3	939.2	925.7
17.5°	1109.0	1110.3	1116.5	1116.5	1116.5	1110.3	1109.0	1100.4	1067.2	1009.4	933.0
20°	1102.9	1105.4	1117.7	1120.1	1117.7	1105.4	1102.9	1091.8	1073.3	1052.4	994.6
22.5°	1100.4	1105.4	1115.2	1114.0	1115.2	1105.4	1100.4	1083.2	1067.2	1052.4	1029.0
25°	1088.1	1088.1	1089.4	1090.6	1089.4	1088.1	1088.1	1074.6	1042.6	1038.9	1025.3
27.5°	1062.2	1064.7	1072.1	1070.9	1072.1	1064.7	1062.2	1057.4	1022.9	1019.2	1009.4
30°	1038.9	1036.4	1030.3	1025.3	1030.3	1036.4	1038.9	1031.5	997.1	987.2	989.6
32.5°	999.5	993.3	987.2	983.5	987.2	993.3	999.5	997.1	971.2	957.6	960.1
35°	952.8	953.9	952.8	949.0	952.8	953.9	952.8	955.2	939.2	926.9	925.7
37.5°	919.5	921.9	920.7	915.8	920.7	921.9	919.5	917.1	894.8	891.2	893.7
40°	885.0	886.2	885.0	881.4	885.0	886.2	885.0	880.1	849.3	850.5	859.1
42.5°	851.8	850.5	846.8	844.4	846.8	850.5	851.8	844.4	805.0	801.3	817.3
45°	813.6	814.8	807.5	803.8	807.5	814.8	813.6	808.7	768.1	758.2	769.3
47.5°	775.5	775.5	769.3	765.6	769.3	775.5	775.5	769.3	726.3	716.4	722.5
50°	734.9	733.6	725.0	723.8	725.0	733.6	734.9	731.1	685.6	677.0	677.0
52.5°	688.1	688.1	689.3	691.8	689.3	688.1	688.1	689.3	648.7	640.1	637.6
55°	647.4	648.7	657.3	659.7	657.3	648.7	647.4	647.4	610.5	601.9	597.0
57.5°	605.6	605.6	611.7	611.7	611.7	605.6	605.6	603.1	567.4	560.1	557.6
60°	557.6	560.1	565.0	563.7	565.0	560.1	557.6	555.1	524.4	519.4	510.8
62.5°	507.1	509.6	510.8	508.4	510.8	509.6	507.1	499.8	481.3	477.6	466.6
65°	454.2	456.6	457.9	455.5	457.9	456.6	454.2	450.5	437.0	430.9	420.9
67.5°	400.0	398.8	397.5	402.5	397.5	398.8	400.0	395.2	386.5	381.6	368.1
70°	344.7	344.7	343.4	345.9	343.4	344.7	344.7	340.9	336.1	332.4	320.0
72.5°	285.6	284.3	289.3	285.6	289.3	284.3	285.6	284.3	281.9	278.2	265.9
75°	227.7	230.2	227.7	231.4	227.7	230.2	227.7	229.0	227.7	225.3	216.7
77.5°	173.5	176.0	173.5	173.5	173.5	176.0	173.5	174.8	174.8	174.8	167.4
80°	123.1	121.9	121.9	120.6	121.9	121.9	123.1	123.1	124.3	121.9	119.4
82.5°	78.7	77.5	77.5	80.0	77.5	77.5	78.7	80.0	77.5	77.5	77.5
85°	43.0	44.3	41.8	41.8	41.8	44.3	43.0	40.7	43.0	43.0	41.8
87.5°	16.0	14.8	14.8	14.8	14.8	14.8	16.0	17.3	17.3	17.3	18.4
90°	7.0	7.0	7.0	7.0	7.0	7.0	7.0	9.3	12.4	13.9	12.0
92.5°	35.0	33.6	28.0	22.4	28.0	33.6	35.0	49.6	68.9	78.6	69.1
95°	118.6	114.3	97.6	80.7	97.6	114.3	118.6	155.7	205.2	230.0	194.2
97.5°	273.7	265.8	233.6	201.6	233.6	265.8	273.7	297.2	328.5	344.1	284.5
100°	384.4	374.9	336.7	298.5	336.7	374.9	384.4	382.7	380.4	379.2	313.0
102.5°	478.9	470.7	438.0	405.3	438.0	470.7	478.9	448.9	409.1	389.2	322.1
105°	589.2	584.8	567.2	549.6	567.2	584.8	589.2	522.2	432.8	388.1	323.1
107.5°	646.5	647.6	651.8	656.1	651.8	647.6	646.5	553.0	428.3	366.0	308.7
110°	661.2	665.8	684.0	702.4	684.0	665.8	661.2	556.7	417.3	347.6	296.0



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CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	651.8	658.9	687.0	715.1	687.0	658.9	651.8	544.8	402.2	330.9	284.9
115°	620.1	629.8	668.8	707.7	668.8	629.8	620.1	517.0	379.6	310.8	272.1
117.5°	576.1	587.0	630.2	673.4	630.2	587.0	576.1	483.1	359.1	297.1	264.1
120°	546.5	556.9	599.0	641.0	599.0	556.9	546.5	461.5	348.2	291.6	261.5
122.5°	516.9	527.3	568.7	610.1	568.7	527.3	516.9	440.4	338.4	287.3	260.0
125°	477.8	487.3	525.5	563.6	525.5	487.3	477.8	412.8	326.1	282.7	258.9
127.5°	446.4	454.4	486.6	518.8	486.6	454.4	446.4	390.6	316.1	278.9	258.1
130°	426.5	433.9	463.6	493.4	463.6	433.9	426.5	376.8	310.5	277.4	258.6
132.5°	409.6	416.3	442.9	469.5	442.9	416.3	409.6	365.1	305.8	276.1	258.9
135°	385.7	391.4	414.3	437.3	414.3	391.4	385.7	348.4	298.8	273.9	258.6
137.5°	368.0	372.7	391.5	410.3	391.5	372.7	368.0	336.5	294.6	273.6	260.2
140°	353.9	358.3	375.8	393.4	375.8	358.3	353.9	326.7	290.5	272.3	260.4
142.5°	344.0	347.7	362.9	377.9	362.9	347.7	344.0	320.1	288.2	272.3	261.5
145°	329.1	331.9	343.4	354.8	343.4	331.9	329.1	309.5	283.5	270.4	261.5
147.5°	316.5	318.9	328.4	337.9	328.4	318.9	316.5	301.2	280.7	270.4	263.2
150°	309.4	311.3	319.0	326.7	319.0	311.3	309.4	296.4	279.1	270.4	264.1
152.5°	303.7	305.1	310.9	316.7	310.9	305.1	303.7	292.6	277.8	270.4	264.8
155°	296.9	297.8	301.6	305.5	301.6	297.8	296.9	288.1	276.3	270.4	266.1
157.5°	291.0	291.6	294.4	297.1	294.4	291.6	291.0	284.1	275.0	270.4	267.4
160°	288.1	288.4	290.0	291.6	290.0	288.4	288.1	282.2	274.4	270.4	268.1
162.5°	285.3	285.7	287.1	288.6	287.1	285.7	285.3	280.4	273.7	270.4	268.7
165°	281.1	281.5	283.0	284.6	283.0	281.5	281.1	277.5	272.8	270.4	269.7
167.5°	279.3	279.4	280.1	280.7	280.1	279.4	279.3	277.0	273.8	272.3	271.6
170°	279.3	279.3	279.3	279.3	279.3	279.3	279.3	277.0	273.8	272.3	272.3
172.5°	277.8	277.6	277.1	276.5	277.1	277.6	277.8	276.0	273.5	272.3	272.3
175°	275.8	275.8	275.8	275.8	275.8	275.8	275.8	274.6	273.0	272.3	272.6
177.5°	275.4	275.2	274.6	273.9	274.6	275.2	275.4	274.5	273.3	272.6	272.9
180°	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9	273.9



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CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1301.1	1301.1	1301.1	1301.1	1301.1
2.5°	1285.0	1291.2	1295.0	1299.8	1312.1
5°	1235.9	1259.3	1266.6	1285.0	1307.3
7.5°	1127.5	1198.9	1218.6	1262.9	1297.3
10°	1022.9	1094.3	1128.8	1233.4	1285.0
12.5°	969.9	1011.9	1035.2	1181.7	1267.8
15°	936.7	966.2	983.5	1112.7	1248.2
17.5°	910.9	931.8	944.1	1045.1	1221.1
20°	894.8	904.8	915.8	995.8	1190.3
22.5°	883.8	877.7	886.2	961.4	1148.4
25°	876.4	853.0	862.9	934.3	1099.2
27.5°	882.5	830.9	834.6	909.6	1047.5
30°	883.8	803.8	805.0	883.8	989.6
32.5°	875.2	775.5	776.7	851.8	924.4
35°	854.3	742.2	741.0	814.8	835.7
37.5°	825.9	706.5	706.5	774.3	738.6
40°	791.5	670.8	674.5	721.3	652.4
42.5°	749.7	632.7	637.6	651.2	588.3
45°	704.1	595.8	599.4	550.2	539.1
47.5°	653.6	557.6	558.9	456.6	523.2
50°	593.3	518.2	513.3	391.4	521.9
52.5°	540.3	475.1	460.3	354.5	473.9
55°	488.7	429.6	397.5	326.1	439.4
57.5°	443.2	370.5	339.7	292.9	432.1
60°	401.3	312.7	289.3	257.2	396.4
62.5°	366.8	269.5	264.7	232.6	359.5
65°	329.9	240.1	238.8	211.7	305.2
67.5°	294.2	220.3	219.1	192.0	232.6
70°	256.0	199.4	196.9	171.1	172.3
72.5°	216.7	176.0	173.5	153.9	142.8
75°	177.2	148.9	147.7	134.2	115.7
77.5°	139.1	118.2	120.6	108.3	85.0
80°	99.7	86.2	88.6	77.5	64.0
82.5°	66.4	56.6	59.1	49.3	43.0
85°	36.9	32.0	33.2	25.9	19.7
87.5°	17.3	14.8	14.8	9.8	6.1
90°	8.1	5.1	4.8	3.3	1.8
92.5°	49.9	35.5	32.4	19.8	7.3
95°	122.7	69.1	63.4	40.5	17.6
97.5°	165.3	75.9	70.8	50.7	30.6
100°	180.8	81.6	77.0	58.7	40.5
102.5°	187.9	87.3	83.1	66.0	48.9
105°	193.3	95.8	92.2	77.7	63.2
107.5°	194.2	108.3	104.9	91.4	77.9
110°	192.7	115.3	112.2	100.0	87.9



TEST NUMBER: P933868

CATALOG NUMBER: SQ4-FA-025U-050D-93050-1D-UNV-STD-W-8-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	192.8	123.7	120.8	109.2	97.6
115°	194.6	136.4	133.7	123.0	112.3
117.5°	198.2	148.8	146.3	136.6	126.8
120°	201.2	155.9	153.6	144.4	135.3
122.5°	205.4	164.4	162.1	152.8	143.5
125°	211.1	175.2	173.1	164.7	156.3
127.5°	216.8	185.6	183.5	175.0	166.6
130°	220.9	192.6	190.3	181.2	172.1
132.5°	224.3	198.3	196.0	186.9	177.8
135°	228.0	205.0	202.9	194.6	186.2
137.5°	233.5	213.5	211.3	203.1	194.8
140°	236.9	219.1	217.2	209.6	202.0
142.5°	239.7	223.4	221.6	214.6	207.6
145°	243.4	229.8	228.2	222.2	216.0
147.5°	248.7	237.9	236.4	230.4	224.5
150°	251.5	242.1	240.7	235.4	230.0
152.5°	253.4	244.8	243.8	239.7	235.7
155°	257.4	250.9	250.2	247.1	244.1
157.5°	261.5	257.0	256.2	253.3	250.3
160°	263.3	259.7	259.2	256.9	254.6
162.5°	265.2	262.6	262.2	260.5	258.8
165°	268.2	267.0	266.6	265.0	263.5
167.5°	270.4	269.3	269.2	268.4	267.7
170°	272.2	272.1	271.9	271.2	270.4
172.5°	272.3	272.3	272.3	272.1	271.9
175°	273.4	273.9	273.9	273.9	273.9
177.5°	273.5	273.9	273.9	273.9	273.9
180°	273.9	273.9	273.9	273.9	273.9



TEST NUMBER: P933868
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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	12.38	13.40	13.19	14.23	15.26	15.21	16.23	16.02	17.07	18.10
	3H	12.86	13.78	13.69	14.62	15.68	16.57	17.49	17.40	18.33	19.39
	4H	13.06	13.93	13.90	14.78	15.85	17.03	17.89	17.87	18.74	19.81
	6H	13.19	13.99	14.04	14.85	15.93	17.32	18.12	18.17	18.98	20.06
	8H	13.20	13.95	14.06	14.83	15.92	17.40	18.16	18.26	19.04	20.12
	12H	13.17	13.90	14.04	14.77	15.88	17.45	18.17	18.31	19.04	20.15
4H	2H	13.43	14.29	14.27	15.14	16.21	15.64	16.51	16.49	17.36	18.43
	3H	14.47	15.19	15.33	16.08	17.16	17.16	17.88	18.02	18.77	19.85
	4H	14.75	15.41	15.62	16.29	17.40	17.70	18.36	18.57	19.24	20.35
	6H	14.89	15.45	15.77	16.36	17.47	18.08	18.64	18.96	19.55	20.66
	8H	14.90	15.43	15.79	16.33	17.45	18.19	18.72	19.08	19.62	20.75
	12H	14.87	15.35	15.78	16.27	17.40	18.25	18.73	19.16	19.65	20.78
8H	4H	15.22	15.75	16.11	16.65	17.78	17.84	18.37	18.73	19.27	20.39
	6H	15.49	15.93	16.41	16.87	18.00	18.28	18.72	19.20	19.66	20.79
	8H	15.53	15.92	16.46	16.86	18.00	18.44	18.82	19.36	19.76	20.90
	12H	15.52	15.87	16.45	16.79	17.99	18.54	18.89	19.47	19.81	21.01
12H	4H	15.24	15.71	16.14	16.63	17.77	17.81	18.29	18.72	19.20	20.34
	6H	15.55	15.94	16.48	16.87	18.02	18.28	18.67	19.21	19.60	20.75
	8H	15.63	15.97	16.56	16.89	18.09	18.45	18.79	19.38	19.72	20.92