

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: P933895

Luminaire Tested: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P933895
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-B2750-1D-UNV-STD-W-8-4000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

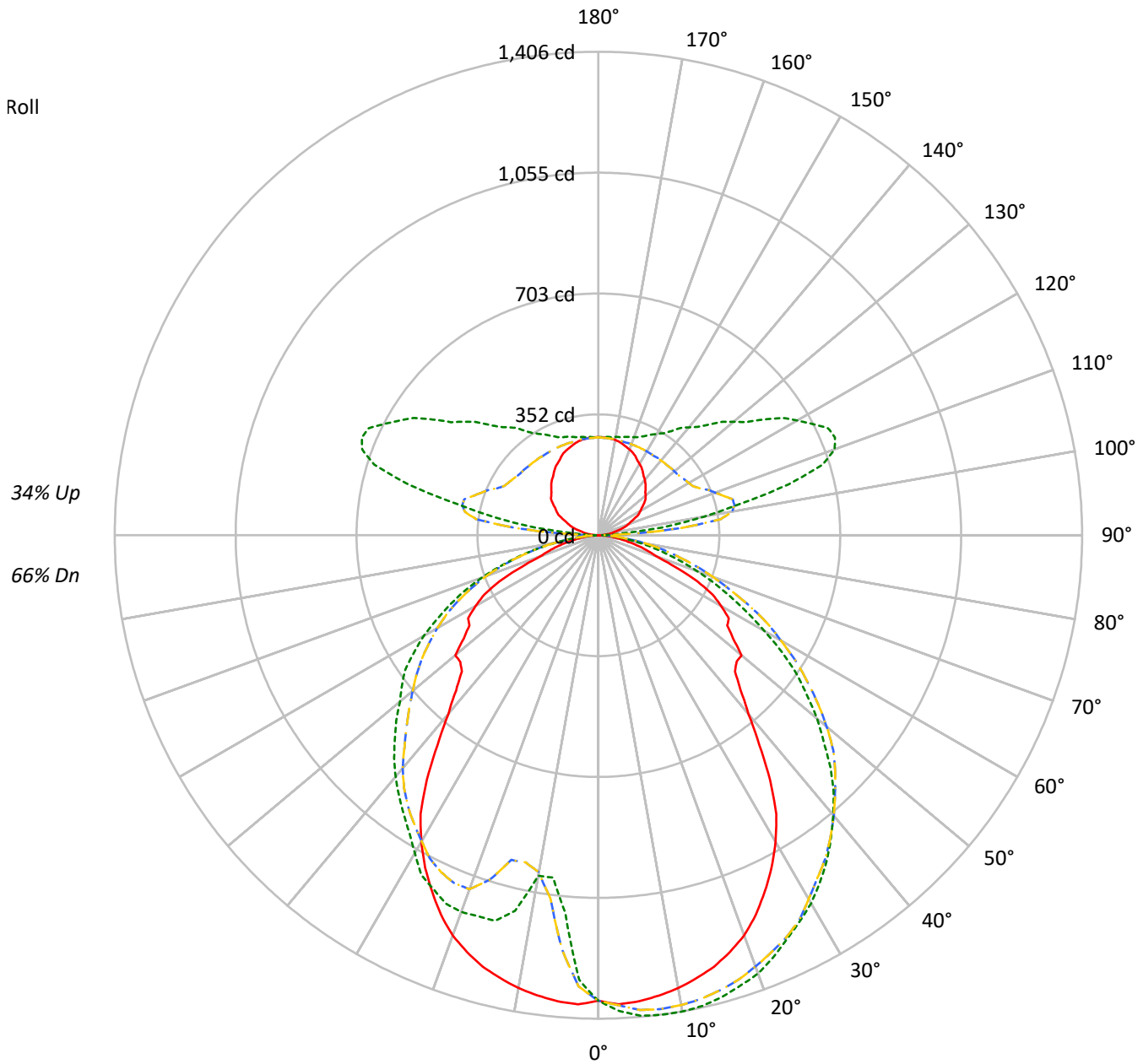
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5359.5 lumens
Efficiency: N/A
Efficacy: 121.8 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				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°	6282	6282	6282	6282
5°	6329	6341	6329	4986
10°	6286	6246	6286	4466
15°	6218	6111	6218	5103
20°	6088	5951	6088	5114
25°	5822	5717	5822	5005
30°	5478	5523	5478	4767
35°	4883	5277	4883	4506
40°	4069	4988	4069	4308
45°	3636	4650	3636	4081
50°	3863	4247	3863	3853
55°	3634	3812	3634	3721
60°	3747	3237	3747	3408
65°	3396	2676	3396	2992
70°	2352	2133	2352	2507
75°	2062	1576	2062	1888
80°	1662	1042	1662	1135
85°	955	553	955	469

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 5572 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.2	2.3
10°-20°	347.0	6.5
20°-30°	536.4	10.0
30°-40°	640.4	11.9
40°-50°	644.1	12.0
50°-60°	560.5	10.5
60°-70°	397.4	7.4
70°-80°	210.2	3.9
80°-90°	53.4	1.0
90°-100°	138.9	2.6
100°-110°	365.3	6.8
110°-120°	378.8	7.1
120°-130°	303.8	5.7
130°-140°	238.4	4.4
140°-150°	183.0	3.4
150°-160°	131.8	2.5
160°-170°	80.6	1.5
170°-180°	27.2	0.5
0°-30°	1005.6	18.8
0°-40°	1646.0	30.7
0°-60°	2850.6	53.2
0°-90°	3511.7	65.5
90°-120°	883.0	16.5
90°-150°	1608.2	30.0
90°-180°	1848.0	34.5
0°-180°	5359.5	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1354	1354	1354	1354	1354	
5°	1360	1403	1360	1103	1360	129
15°	1299	1390	1299	1160	1299	365
25°	1144	1296	1144	1135	1144	525
35°	870	1157	870	988	870	538
45°	561	953	561	836	561	449
55°	457	703	457	686	457	420
65°	318	424	318	474	318	304
75°	120	201	120	241	120	127
85°	20	51	20	44	20	28
90°	2	7	2	7	2	2
95°	18	84	18	84	18	20
105°	66	572	66	572	66	70
115°	117	736	117	736	117	115
125°	163	587	163	587	163	144
135°	194	455	194	455	194	150
145°	225	369	225	369	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°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1365.5	1365.5	1373.2	1375.8	1375.8	1371.9	1368.0	1371.9	1383.4	1387.2	1386.0
5°	1360.4	1370.6	1384.8	1387.2	1389.8	1388.6	1386.0	1388.6	1401.4	1403.9	1405.2
7.5°	1350.1	1369.4	1387.2	1391.1	1395.0	1391.1	1389.8	1392.4	1405.2	1407.8	1407.8
10°	1337.3	1364.2	1384.8	1387.2	1391.1	1387.2	1387.2	1392.4	1405.2	1407.8	1409.0
12.5°	1319.3	1356.5	1375.8	1378.3	1383.4	1382.2	1380.8	1386.0	1398.8	1401.4	1401.4
15°	1298.9	1342.4	1360.4	1362.9	1371.9	1369.4	1369.4	1374.4	1388.6	1392.4	1391.1
17.5°	1270.7	1324.5	1345.0	1348.8	1355.2	1354.0	1355.2	1360.4	1373.2	1375.8	1377.0
20°	1238.6	1300.1	1324.5	1328.3	1334.7	1334.7	1334.7	1341.1	1354.0	1359.1	1359.1
22.5°	1195.1	1274.5	1300.1	1302.7	1310.5	1310.5	1312.9	1321.9	1333.5	1334.7	1334.7
25°	1143.9	1246.4	1268.1	1275.8	1283.5	1287.3	1291.2	1296.3	1300.1	1298.9	1300.1
27.5°	1090.1	1210.5	1238.6	1243.8	1254.0	1257.9	1263.0	1264.3	1265.6	1269.4	1266.9
30°	1029.9	1160.5	1202.8	1208.0	1224.6	1227.2	1222.0	1224.6	1231.0	1233.6	1236.2
32.5°	962.0	1086.2	1165.7	1177.2	1192.6	1184.9	1183.6	1187.4	1197.7	1197.7	1200.2
35°	869.7	1028.6	1131.1	1141.3	1152.9	1143.9	1149.1	1150.3	1156.7	1160.5	1159.3
37.5°	768.6	978.7	1095.2	1102.9	1111.9	1100.4	1108.0	1111.9	1117.0	1114.4	1114.4
40°	678.9	900.5	1053.0	1058.0	1065.8	1056.8	1064.4	1067.0	1069.6	1067.0	1065.8
42.5°	612.3	814.7	1008.1	1014.5	1009.3	1015.8	1018.3	1023.5	1019.7	1014.5	1014.5
45°	561.1	791.6	959.4	967.1	959.4	969.7	973.5	973.5	962.0	959.4	958.2
47.5°	544.4	745.5	910.8	910.8	906.9	919.8	926.2	917.2	905.6	901.8	901.8
50°	543.1	694.3	844.1	839.1	856.9	872.3	865.9	856.9	847.9	833.9	833.9
52.5°	493.2	631.5	758.4	777.6	805.7	814.7	804.4	795.5	780.1	773.6	768.6
55°	457.3	566.2	680.2	718.6	748.1	759.6	740.4	731.4	708.3	704.5	701.9
57.5°	449.6	471.4	608.4	657.1	692.9	691.7	680.2	663.5	644.3	640.5	639.2
60°	412.5	340.7	531.6	589.2	626.4	622.6	612.3	596.9	579.0	576.4	573.9
62.5°	374.1	247.2	444.5	509.8	562.3	561.1	552.1	529.1	516.2	509.8	504.7
65°	317.6	207.5	316.4	424.0	499.6	502.1	482.9	466.2	452.2	444.5	443.2
67.5°	242.1	169.1	213.9	353.5	439.4	436.8	412.5	404.8	386.9	383.1	375.3
70°	179.3	112.7	148.6	287.0	380.5	374.1	354.8	345.9	329.2	320.2	315.2
72.5°	148.6	90.9	108.9	222.9	320.2	312.6	295.9	285.6	271.6	263.9	258.7
75°	120.4	96.1	83.3	165.2	260.0	254.9	239.5	229.3	217.7	207.5	208.8
77.5°	88.4	89.7	66.6	121.7	206.3	198.5	189.6	176.8	171.6	161.4	161.4
80°	66.6	70.5	49.9	83.3	148.6	148.6	140.9	132.0	123.0	117.8	117.8
82.5°	44.8	44.8	37.1	52.5	101.2	97.3	92.3	89.7	84.5	81.9	81.9
85°	20.5	25.6	23.0	32.0	55.1	57.7	57.7	55.1	53.8	51.3	52.5
87.5°	6.4	11.6	14.1	18.0	28.2	29.5	30.8	30.8	30.8	32.0	32.0
90°	1.9	3.4	5.0	5.3	8.4	12.5	14.5	12.9	9.6	7.3	7.3
92.5°	7.6	20.6	33.7	37.0	52.0	71.9	81.8	71.7	51.6	36.4	35.0
95°	18.3	42.1	66.0	71.9	127.7	202.1	239.3	213.5	162.1	123.4	119.0
97.5°	31.8	52.8	73.7	79.0	172.0	296.0	358.1	341.9	309.3	284.9	276.6
100°	42.1	61.1	80.1	84.9	188.1	325.8	394.6	395.8	398.2	400.0	390.1
102.5°	50.9	68.7	86.4	90.8	195.6	335.2	405.0	425.7	467.2	498.3	489.8
105°	65.8	80.9	96.0	99.7	201.1	336.3	403.9	450.4	543.4	613.1	608.5
107.5°	81.1	95.1	109.2	112.7	202.1	321.3	380.9	445.7	575.5	672.8	673.9
110°	91.5	104.1	116.8	119.9	200.5	308.0	361.8	434.2	579.3	688.1	692.9



TEST NUMBER: P933895

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	101.6	113.6	125.7	128.7	200.6	296.4	344.4	418.6	567.0	678.3	685.7
115°	116.9	128.0	139.1	141.9	202.5	283.2	323.5	395.0	538.0	645.3	655.4
117.5°	132.0	142.1	152.2	154.8	206.3	274.8	309.1	373.7	502.7	599.5	610.8
120°	140.8	150.3	159.9	162.3	209.3	272.1	303.4	362.3	480.3	568.7	579.6
122.5°	149.4	159.0	168.7	171.0	213.7	270.6	299.0	352.1	458.3	538.0	548.7
125°	162.6	171.4	180.1	182.3	219.6	269.4	294.2	339.3	429.6	497.2	507.1
127.5°	173.3	182.1	191.0	193.2	225.6	268.6	290.2	329.0	406.4	464.5	472.9
130°	179.1	188.6	198.1	200.5	229.9	269.1	288.7	323.2	392.1	443.8	451.5
132.5°	185.0	194.5	204.0	206.4	233.4	269.4	287.4	318.2	379.9	426.2	433.2
135°	193.8	202.5	211.2	213.3	237.2	269.1	285.1	310.9	362.6	401.4	407.3
137.5°	202.7	211.3	219.9	222.1	243.0	270.7	284.7	306.6	350.2	383.0	387.8
140°	210.2	218.1	226.0	228.1	246.5	271.0	283.3	302.3	340.0	368.2	372.8
142.5°	216.0	223.3	230.6	232.4	249.4	272.1	283.3	300.0	333.1	357.9	361.8
145°	224.8	231.2	237.5	239.1	253.3	272.1	281.4	295.0	322.1	342.5	345.4
147.5°	233.6	239.8	246.0	247.5	258.8	273.9	281.4	292.1	313.4	329.4	331.9
150°	239.3	245.0	250.5	251.9	261.8	274.8	281.4	290.4	308.5	321.9	323.9
152.5°	245.2	249.4	253.7	254.8	263.7	275.5	281.4	289.1	304.5	316.0	317.5
155°	254.0	257.2	260.3	261.1	267.9	277.0	281.4	287.6	299.8	308.9	309.9
157.5°	260.5	263.6	266.6	267.4	272.1	278.3	281.4	286.2	295.7	302.8	303.5
160°	264.9	267.3	269.7	270.3	274.0	279.0	281.4	285.5	293.7	299.8	300.2
162.5°	269.3	271.1	272.8	273.3	276.0	279.6	281.4	284.9	291.8	296.9	297.3
165°	274.2	275.8	277.4	277.8	279.1	280.7	281.4	283.9	288.8	292.5	292.9
167.5°	278.6	279.3	280.1	280.3	281.3	282.7	283.3	285.0	288.2	290.6	290.8
170°	281.4	282.2	283.0	283.2	283.3	283.3	283.3	285.0	288.2	290.6	290.6
172.5°	283.0	283.2	283.3	283.3	283.3	283.3	283.3	284.6	287.2	289.1	288.9
175°	285.1	285.1	285.1	285.1	284.5	283.7	283.3	284.1	285.7	287.0	287.0
177.5°	285.1	285.1	285.1	285.1	284.6	284.0	283.7	284.4	285.6	286.6	286.4
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1388.6	1384.8	1388.6	1386.0	1387.2	1383.4	1371.9	1368.0	1371.9	1375.8	1375.8
5°	1405.2	1402.6	1405.2	1405.2	1403.9	1401.4	1388.6	1386.0	1388.6	1389.8	1387.2
7.5°	1410.3	1406.5	1410.3	1407.8	1407.8	1405.2	1392.4	1389.8	1391.1	1395.0	1391.1
10°	1410.3	1406.5	1410.3	1409.0	1407.8	1405.2	1392.4	1387.2	1387.2	1391.1	1387.2
12.5°	1403.9	1401.4	1403.9	1401.4	1401.4	1398.8	1386.0	1380.8	1382.2	1383.4	1378.3
15°	1393.6	1389.8	1393.6	1391.1	1392.4	1388.6	1374.4	1369.4	1369.4	1371.9	1362.9
17.5°	1378.3	1373.2	1378.3	1377.0	1375.8	1373.2	1360.4	1355.2	1354.0	1355.2	1348.8
20°	1360.4	1356.5	1360.4	1359.1	1359.1	1354.0	1341.1	1334.7	1334.7	1334.7	1328.3
22.5°	1332.2	1328.3	1332.2	1334.7	1334.7	1333.5	1321.9	1312.9	1310.5	1310.5	1302.7
25°	1300.1	1296.3	1300.1	1300.1	1298.9	1300.1	1296.3	1291.2	1287.3	1283.5	1275.8
27.5°	1269.4	1266.9	1269.4	1266.9	1269.4	1265.6	1264.3	1263.0	1257.9	1254.0	1243.8
30°	1238.6	1236.2	1238.6	1236.2	1233.6	1231.0	1224.6	1222.0	1227.2	1224.6	1208.0
32.5°	1200.2	1197.7	1200.2	1200.2	1197.7	1197.7	1187.4	1183.6	1184.9	1192.6	1177.2
35°	1160.5	1156.7	1160.5	1159.3	1160.5	1156.7	1150.3	1149.1	1143.9	1152.9	1141.3
37.5°	1114.4	1110.6	1114.4	1114.4	1114.4	1117.0	1111.9	1108.0	1100.4	1111.9	1102.9
40°	1067.0	1061.9	1067.0	1065.8	1067.0	1069.6	1067.0	1064.4	1056.8	1065.8	1058.0
42.5°	1013.3	1011.9	1013.3	1014.5	1014.5	1019.7	1023.5	1018.3	1015.8	1009.3	1014.5
45°	955.6	953.0	955.6	958.2	959.4	962.0	973.5	973.5	969.7	959.4	967.1
47.5°	894.1	887.7	894.1	901.8	901.8	905.6	917.2	926.2	919.8	906.9	910.8
50°	828.7	830.1	828.7	833.9	833.9	847.9	856.9	865.9	872.3	856.9	839.1
52.5°	764.8	763.4	764.8	768.6	773.6	780.1	795.5	804.4	814.7	805.7	777.6
55°	700.7	703.3	700.7	701.9	704.5	708.3	731.4	740.4	759.6	748.1	718.6
57.5°	636.6	632.8	636.6	639.2	640.5	644.3	663.5	680.2	691.7	692.9	657.1
60°	562.3	557.2	562.3	573.9	576.4	579.0	596.9	612.3	622.6	626.4	589.2
62.5°	497.0	488.0	497.0	504.7	509.8	516.2	529.1	552.1	561.1	562.3	509.8
65°	427.8	424.0	427.8	443.2	444.5	452.2	466.2	482.9	502.1	499.6	424.0
67.5°	365.1	365.1	365.1	375.3	383.1	386.9	404.8	412.5	436.8	439.4	353.5
70°	307.4	306.2	307.4	315.2	320.2	329.2	345.9	354.8	374.1	380.5	287.0
72.5°	252.3	251.1	252.3	258.7	263.9	271.6	285.6	295.9	312.6	320.2	222.9
75°	203.7	201.1	203.7	208.8	207.5	217.7	229.3	239.5	254.9	260.0	165.2
77.5°	156.2	156.2	156.2	161.4	161.4	171.6	176.8	189.6	198.5	206.3	121.7
80°	116.6	115.3	116.6	117.8	117.8	123.0	132.0	140.9	148.6	148.6	83.3
82.5°	81.9	79.5	81.9	81.9	81.9	84.5	89.7	92.3	97.3	101.2	52.5
85°	51.3	51.3	51.3	52.5	51.3	53.8	55.1	57.7	57.7	55.1	32.0
87.5°	33.3	32.0	33.3	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	9.6	12.9	14.5	12.5	8.4	5.3
92.5°	29.1	23.3	29.1	35.0	36.4	51.6	71.7	81.8	71.9	52.0	37.0
95°	101.5	83.9	101.5	119.0	123.4	162.1	213.5	239.3	202.1	127.7	71.9
97.5°	243.1	209.8	243.1	276.6	284.9	309.3	341.9	358.1	296.0	172.0	79.0
100°	350.4	310.7	350.4	390.1	400.0	398.2	395.8	394.6	325.8	188.1	84.9
102.5°	455.8	421.8	455.8	489.8	498.3	467.2	425.7	405.0	335.2	195.6	90.8
105°	590.3	571.9	590.3	608.5	613.1	543.4	450.4	403.9	336.3	201.1	99.7
107.5°	678.3	682.7	678.3	673.9	672.8	575.5	445.7	380.9	321.3	202.1	112.7
110°	711.9	731.0	711.9	692.9	688.1	579.3	434.2	361.8	308.0	200.5	119.9



TEST NUMBER: P933895

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	714.9	744.1	714.9	685.7	678.3	567.0	418.6	344.4	296.4	200.6	128.7
115°	696.0	736.5	696.0	655.4	645.3	538.0	395.0	323.5	283.2	202.5	141.9
117.5°	655.8	700.8	655.8	610.8	599.5	502.7	373.7	309.1	274.8	206.3	154.8
120°	623.3	667.1	623.3	579.6	568.7	480.3	362.3	303.4	272.1	209.3	162.3
122.5°	591.8	634.9	591.8	548.7	538.0	458.3	352.1	299.0	270.6	213.7	171.0
125°	546.8	586.6	546.8	507.1	497.2	429.6	339.3	294.2	269.4	219.6	182.3
127.5°	506.3	539.9	506.3	472.9	464.5	406.4	329.0	290.2	268.6	225.6	193.2
130°	482.5	513.4	482.5	451.5	443.8	392.1	323.2	288.7	269.1	229.9	200.5
132.5°	460.9	488.6	460.9	433.2	426.2	379.9	318.2	287.4	269.4	233.4	206.4
135°	431.2	455.1	431.2	407.3	401.4	362.6	310.9	285.1	269.1	237.2	213.3
137.5°	407.4	427.0	407.4	387.8	383.0	350.2	306.6	284.7	270.7	243.0	222.1
140°	391.1	409.4	391.1	372.8	368.2	340.0	302.3	283.3	271.0	246.5	228.1
142.5°	377.6	393.3	377.6	361.8	357.9	333.1	300.0	283.3	272.1	249.4	232.4
145°	357.4	369.2	357.4	345.4	342.5	322.1	295.0	281.4	272.1	253.3	239.1
147.5°	341.7	351.6	341.7	331.9	329.4	313.4	292.1	281.4	273.9	258.8	247.5
150°	332.0	340.0	332.0	323.9	321.9	308.5	290.4	281.4	274.8	261.8	251.9
152.5°	323.6	329.6	323.6	317.5	316.0	304.5	289.1	281.4	275.5	263.7	254.8
155°	313.9	317.9	313.9	309.9	308.9	299.8	287.6	281.4	277.0	267.9	261.1
157.5°	306.4	309.1	306.4	303.5	302.8	295.7	286.2	281.4	278.3	272.1	267.4
160°	301.8	303.4	301.8	300.2	299.8	293.7	285.5	281.4	279.0	274.0	270.3
162.5°	298.8	300.3	298.8	297.3	296.9	291.8	284.9	281.4	279.6	276.0	273.3
165°	294.5	296.1	294.5	292.9	292.5	288.8	283.9	281.4	280.7	279.1	277.8
167.5°	291.5	292.1	291.5	290.8	290.6	288.2	285.0	283.3	282.7	281.3	280.3
170°	290.6	290.6	290.6	290.6	290.6	288.2	285.0	283.3	283.3	283.3	283.2
172.5°	288.3	287.7	288.3	288.9	289.1	287.2	284.6	283.3	283.3	283.3	283.3
175°	287.0	287.0	287.0	287.0	287.0	285.7	284.1	283.3	283.7	284.5	285.1
177.5°	285.7	285.1	285.7	286.4	286.6	285.6	284.4	283.7	284.0	284.6	285.1
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1



TEST NUMBER: P933895

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1373.2	1365.5	1365.5	1352.7	1347.6	1343.7	1337.3	1318.1	1312.9	1307.9	1315.5
5°	1384.8	1370.6	1360.4	1337.3	1318.1	1310.5	1286.1	1240.0	1209.2	1186.1	1173.3
7.5°	1387.2	1369.4	1350.1	1314.3	1268.1	1247.6	1173.3	1088.8	1065.8	1045.2	1032.5
10°	1384.8	1364.2	1337.3	1283.5	1174.6	1138.7	1064.4	1009.3	995.3	991.5	995.3
12.5°	1375.8	1356.5	1319.3	1229.8	1077.2	1053.0	1009.3	977.3	974.8	981.2	1015.8
15°	1360.4	1342.4	1298.9	1157.9	1023.5	1005.5	974.8	963.3	977.3	1022.2	1125.9
17.5°	1345.0	1324.5	1270.7	1087.6	982.5	969.7	947.9	970.9	1050.4	1110.6	1145.1
20°	1324.5	1300.1	1238.6	1036.3	953.0	941.5	931.2	1035.0	1095.2	1117.0	1136.2
22.5°	1300.1	1274.5	1195.1	1000.5	922.2	913.4	919.8	1070.8	1095.2	1110.6	1127.2
25°	1268.1	1246.4	1143.9	972.3	898.0	887.7	912.0	1067.0	1081.2	1085.0	1118.3
27.5°	1238.6	1210.5	1090.1	946.6	868.5	864.7	918.4	1050.4	1060.6	1064.4	1100.4
30°	1202.8	1160.5	1029.9	919.8	837.7	836.5	919.8	1029.9	1027.3	1037.6	1073.4
32.5°	1165.7	1086.2	962.0	886.4	808.3	807.0	910.8	999.1	996.5	1010.7	1037.6
35°	1131.1	1028.6	869.7	847.9	771.2	772.4	889.0	963.3	964.6	977.3	994.1
37.5°	1095.2	978.7	768.6	805.7	735.3	735.3	859.5	930.0	927.4	931.2	954.3
40°	1053.0	900.5	678.9	750.6	701.9	698.1	823.7	894.1	885.1	883.9	915.8
42.5°	1008.1	814.7	612.3	677.7	663.5	658.4	780.1	850.5	833.9	837.7	878.7
45°	959.4	791.6	561.1	572.6	623.8	620.0	732.7	800.6	789.0	799.3	841.5
47.5°	910.8	745.5	544.4	475.2	581.6	580.3	680.2	751.9	745.5	755.8	800.6
50°	844.1	694.3	543.1	407.3	534.1	539.3	617.4	704.5	704.5	713.5	760.8
52.5°	758.4	631.5	493.2	368.9	479.0	494.4	562.3	663.5	666.1	675.1	717.3
55°	680.2	566.2	457.3	339.4	413.7	447.0	508.5	621.2	626.4	635.4	673.8
57.5°	608.4	471.4	449.6	304.8	353.5	385.5	461.2	580.3	582.8	590.5	627.6
60°	531.6	340.7	412.5	267.7	301.0	325.4	417.6	531.6	540.5	545.7	577.7
62.5°	444.5	247.2	374.1	242.1	275.4	280.5	381.7	485.5	497.0	500.9	520.1
65°	316.4	207.5	317.6	220.3	248.5	249.8	343.3	438.1	448.4	454.8	468.8
67.5°	213.9	169.1	242.1	199.8	228.1	229.3	306.2	383.1	397.1	402.2	411.2
70°	148.6	112.7	179.3	178.0	204.9	207.5	266.4	333.0	345.9	349.7	354.8
72.5°	108.9	90.9	148.6	160.2	180.6	183.2	225.5	276.7	289.5	293.4	295.9
75°	83.3	96.1	120.4	139.6	153.8	155.0	184.4	225.5	234.5	236.9	238.3
77.5°	66.6	89.7	88.4	112.7	125.5	123.0	144.8	174.2	181.9	181.9	181.9
80°	49.9	70.5	66.6	80.7	92.3	89.7	103.7	124.2	126.8	129.4	128.1
82.5°	37.1	44.8	44.8	51.3	61.5	58.9	69.1	80.7	80.7	80.7	83.3
85°	23.0	25.6	20.5	26.9	34.6	33.3	38.4	43.5	44.8	44.8	42.3
87.5°	14.1	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	5.3	8.4	12.5	14.5	12.9	9.6
92.5°	33.7	20.6	7.6	20.6	33.7	37.0	52.0	71.9	81.8	71.7	51.6
95°	66.0	42.1	18.3	42.1	66.0	71.9	127.7	202.1	239.3	213.5	162.1
97.5°	73.7	52.8	31.8	52.8	73.7	79.0	172.0	296.0	358.1	341.9	309.3
100°	80.1	61.1	42.1	61.1	80.1	84.9	188.1	325.8	394.6	395.8	398.2
102.5°	86.4	68.7	50.9	68.7	86.4	90.8	195.6	335.2	405.0	425.7	467.2
105°	96.0	80.9	65.8	80.9	96.0	99.7	201.1	336.3	403.9	450.4	543.4
107.5°	109.2	95.1	81.1	95.1	109.2	112.7	202.1	321.3	380.9	445.7	575.5
110°	116.8	104.1	91.5	104.1	116.8	119.9	200.5	308.0	361.8	434.2	579.3



TEST NUMBER: P933895

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	125.7	113.6	101.6	113.6	125.7	128.7	200.6	296.4	344.4	418.6	567.0
115°	139.1	128.0	116.9	128.0	139.1	141.9	202.5	283.2	323.5	395.0	538.0
117.5°	152.2	142.1	132.0	142.1	152.2	154.8	206.3	274.8	309.1	373.7	502.7
120°	159.9	150.3	140.8	150.3	159.9	162.3	209.3	272.1	303.4	362.3	480.3
122.5°	168.7	159.0	149.4	159.0	168.7	171.0	213.7	270.6	299.0	352.1	458.3
125°	180.1	171.4	162.6	171.4	180.1	182.3	219.6	269.4	294.2	339.3	429.6
127.5°	191.0	182.1	173.3	182.1	191.0	193.2	225.6	268.6	290.2	329.0	406.4
130°	198.1	188.6	179.1	188.6	198.1	200.5	229.9	269.1	288.7	323.2	392.1
132.5°	204.0	194.5	185.0	194.5	204.0	206.4	233.4	269.4	287.4	318.2	379.9
135°	211.2	202.5	193.8	202.5	211.2	213.3	237.2	269.1	285.1	310.9	362.6
137.5°	219.9	211.3	202.7	211.3	219.9	222.1	243.0	270.7	284.7	306.6	350.2
140°	226.0	218.1	210.2	218.1	226.0	228.1	246.5	271.0	283.3	302.3	340.0
142.5°	230.6	223.3	216.0	223.3	230.6	232.4	249.4	272.1	283.3	300.0	333.1
145°	237.5	231.2	224.8	231.2	237.5	239.1	253.3	272.1	281.4	295.0	322.1
147.5°	246.0	239.8	233.6	239.8	246.0	247.5	258.8	273.9	281.4	292.1	313.4
150°	250.5	245.0	239.3	245.0	250.5	251.9	261.8	274.8	281.4	290.4	308.5
152.5°	253.7	249.4	245.2	249.4	253.7	254.8	263.7	275.5	281.4	289.1	304.5
155°	260.3	257.2	254.0	257.2	260.3	261.1	267.9	277.0	281.4	287.6	299.8
157.5°	266.6	263.6	260.5	263.6	266.6	267.4	272.1	278.3	281.4	286.2	295.7
160°	269.7	267.3	264.9	267.3	269.7	270.3	274.0	279.0	281.4	285.5	293.7
162.5°	272.8	271.1	269.3	271.1	272.8	273.3	276.0	279.6	281.4	284.9	291.8
165°	277.4	275.8	274.2	275.8	277.4	277.8	279.1	280.7	281.4	283.9	288.8
167.5°	280.1	279.3	278.6	279.3	280.1	280.3	281.3	282.7	283.3	285.0	288.2
170°	283.0	282.2	281.4	282.2	283.0	283.2	283.3	283.3	283.3	285.0	288.2
172.5°	283.3	283.2	283.0	283.2	283.3	283.3	283.3	283.3	283.3	284.6	287.2
175°	285.1	285.1	285.1	285.1	285.1	285.1	284.5	283.7	283.3	284.1	285.7
177.5°	285.1	285.1	285.1	285.1	285.1	285.1	284.6	284.0	283.7	284.4	285.6
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1



TEST NUMBER: P933895
 CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1306.5	1302.7	1307.9	1293.7	1307.9	1302.7	1306.5	1315.5	1307.9	1312.9	1318.1
5°	1146.5	1140.1	1119.5	1102.9	1119.5	1140.1	1146.5	1173.3	1186.1	1209.2	1240.0
7.5°	1024.7	1019.7	1014.5	1004.3	1014.5	1019.7	1024.7	1032.5	1045.2	1065.8	1088.8
10°	997.9	999.1	1006.9	1005.5	1006.9	999.1	997.9	995.3	991.5	995.3	1009.3
12.5°	1067.0	1078.6	1120.8	1118.3	1120.8	1078.6	1067.0	1015.8	981.2	974.8	977.3
15°	1146.5	1150.3	1159.3	1160.5	1159.3	1150.3	1146.5	1125.9	1022.2	977.3	963.3
17.5°	1154.1	1155.5	1161.9	1161.9	1161.9	1155.5	1154.1	1145.1	1110.6	1050.4	970.9
20°	1147.7	1150.3	1163.1	1165.7	1163.1	1150.3	1147.7	1136.2	1117.0	1095.2	1035.0
22.5°	1145.1	1150.3	1160.5	1159.3	1160.5	1150.3	1145.1	1127.2	1110.6	1095.2	1070.8
25°	1132.3	1132.3	1133.7	1134.9	1133.7	1132.3	1132.3	1118.3	1085.0	1081.2	1067.0
27.5°	1105.4	1108.0	1115.7	1114.4	1115.7	1108.0	1105.4	1100.4	1064.4	1060.6	1050.4
30°	1081.2	1078.6	1072.2	1067.0	1072.2	1078.6	1081.2	1073.4	1037.6	1027.3	1029.9
32.5°	1040.1	1033.7	1027.3	1023.5	1027.3	1033.7	1040.1	1037.6	1010.7	996.5	999.1
35°	991.5	992.7	991.5	987.6	991.5	992.7	991.5	994.1	977.3	964.6	963.3
37.5°	956.9	959.4	958.2	953.0	958.2	959.4	956.9	954.3	931.2	927.4	930.0
40°	921.0	922.2	921.0	917.2	921.0	922.2	921.0	915.8	883.9	885.1	894.1
42.5°	886.4	885.1	881.3	878.7	881.3	885.1	886.4	878.7	837.7	833.9	850.5
45°	846.7	847.9	840.3	836.5	840.3	847.9	846.7	841.5	799.3	789.0	800.6
47.5°	807.0	807.0	800.6	796.8	800.6	807.0	807.0	800.6	755.8	745.5	751.9
50°	764.8	763.4	754.4	753.2	754.4	763.4	764.8	760.8	713.5	704.5	704.5
52.5°	716.1	716.1	717.3	719.9	717.3	716.1	716.1	717.3	675.1	666.1	663.5
55°	673.8	675.1	684.1	686.5	684.1	675.1	673.8	673.8	635.4	626.4	621.2
57.5°	630.2	630.2	636.6	636.6	636.6	630.2	630.2	627.6	590.5	582.8	580.3
60°	580.3	582.8	588.0	586.7	588.0	582.8	580.3	577.7	545.7	540.5	531.6
62.5°	527.7	530.3	531.6	529.1	531.6	530.3	527.7	520.1	500.9	497.0	485.5
65°	472.6	475.2	476.5	474.0	476.5	475.2	472.6	468.8	454.8	448.4	438.1
67.5°	416.3	415.0	413.7	418.9	413.7	415.0	416.3	411.2	402.2	397.1	383.1
70°	358.7	358.7	357.4	359.9	357.4	358.7	358.7	354.8	349.7	345.9	333.0
72.5°	297.2	295.9	301.0	297.2	301.0	295.9	297.2	295.9	293.4	289.5	276.7
75°	236.9	239.5	236.9	240.9	236.9	239.5	236.9	238.3	236.9	234.5	225.5
77.5°	180.6	183.2	180.6	180.6	180.6	183.2	180.6	181.9	181.9	181.9	174.2
80°	128.1	126.8	126.8	125.5	126.8	126.8	128.1	128.1	129.4	126.8	124.2
82.5°	81.9	80.7	80.7	83.3	80.7	80.7	81.9	83.3	80.7	80.7	80.7
85°	44.8	46.1	43.5	43.5	43.5	46.1	44.8	42.3	44.8	44.8	43.5
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	9.6	12.9	14.5	12.5
92.5°	36.4	35.0	29.1	23.3	29.1	35.0	36.4	51.6	71.7	81.8	71.9
95°	123.4	119.0	101.5	83.9	101.5	119.0	123.4	162.1	213.5	239.3	202.1
97.5°	284.9	276.6	243.1	209.8	243.1	276.6	284.9	309.3	341.9	358.1	296.0
100°	400.0	390.1	350.4	310.7	350.4	390.1	400.0	398.2	395.8	394.6	325.8
102.5°	498.3	489.8	455.8	421.8	455.8	489.8	498.3	467.2	425.7	405.0	335.2
105°	613.1	608.5	590.3	571.9	590.3	608.5	613.1	543.4	450.4	403.9	336.3
107.5°	672.8	673.9	678.3	682.7	678.3	673.9	672.8	575.5	445.7	380.9	321.3
110°	688.1	692.9	711.9	731.0	711.9	692.9	688.1	579.3	434.2	361.8	308.0



TEST NUMBER: P933895

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	678.3	685.7	714.9	744.1	714.9	685.7	678.3	567.0	418.6	344.4	296.4
115°	645.3	655.4	696.0	736.5	696.0	655.4	645.3	538.0	395.0	323.5	283.2
117.5°	599.5	610.8	655.8	700.8	655.8	610.8	599.5	502.7	373.7	309.1	274.8
120°	568.7	579.6	623.3	667.1	623.3	579.6	568.7	480.3	362.3	303.4	272.1
122.5°	538.0	548.7	591.8	634.9	591.8	548.7	538.0	458.3	352.1	299.0	270.6
125°	497.2	507.1	546.8	586.6	546.8	507.1	497.2	429.6	339.3	294.2	269.4
127.5°	464.5	472.9	506.3	539.9	506.3	472.9	464.5	406.4	329.0	290.2	268.6
130°	443.8	451.5	482.5	513.4	482.5	451.5	443.8	392.1	323.2	288.7	269.1
132.5°	426.2	433.2	460.9	488.6	460.9	433.2	426.2	379.9	318.2	287.4	269.4
135°	401.4	407.3	431.2	455.1	431.2	407.3	401.4	362.6	310.9	285.1	269.1
137.5°	383.0	387.8	407.4	427.0	407.4	387.8	383.0	350.2	306.6	284.7	270.7
140°	368.2	372.8	391.1	409.4	391.1	372.8	368.2	340.0	302.3	283.3	271.0
142.5°	357.9	361.8	377.6	393.3	377.6	361.8	357.9	333.1	300.0	283.3	272.1
145°	342.5	345.4	357.4	369.2	357.4	345.4	342.5	322.1	295.0	281.4	272.1
147.5°	329.4	331.9	341.7	351.6	341.7	331.9	329.4	313.4	292.1	281.4	273.9
150°	321.9	323.9	332.0	340.0	332.0	323.9	321.9	308.5	290.4	281.4	274.8
152.5°	316.0	317.5	323.6	329.6	323.6	317.5	316.0	304.5	289.1	281.4	275.5
155°	308.9	309.9	313.9	317.9	313.9	309.9	308.9	299.8	287.6	281.4	277.0
157.5°	302.8	303.5	306.4	309.1	306.4	303.5	302.8	295.7	286.2	281.4	278.3
160°	299.8	300.2	301.8	303.4	301.8	300.2	299.8	293.7	285.5	281.4	279.0
162.5°	296.9	297.3	298.8	300.3	298.8	297.3	296.9	291.8	284.9	281.4	279.6
165°	292.5	292.9	294.5	296.1	294.5	292.9	292.5	288.8	283.9	281.4	280.7
167.5°	290.6	290.8	291.5	292.1	291.5	290.8	290.6	288.2	285.0	283.3	282.7
170°	290.6	290.6	290.6	290.6	290.6	290.6	290.6	288.2	285.0	283.3	283.3
172.5°	289.1	288.9	288.3	287.7	288.3	288.9	289.1	287.2	284.6	283.3	283.3
175°	287.0	287.0	287.0	287.0	287.0	287.0	287.0	285.7	284.1	283.3	283.7
177.5°	286.6	286.4	285.7	285.1	285.7	286.4	286.6	285.6	284.4	283.7	284.0
180°	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1	285.1



TEST NUMBER: P933895

CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1354.0	1354.0	1354.0	1354.0	1354.0
2.5°	1337.3	1343.7	1347.6	1352.7	1365.5
5°	1286.1	1310.5	1318.1	1337.3	1360.4
7.5°	1173.3	1247.6	1268.1	1314.3	1350.1
10°	1064.4	1138.7	1174.6	1283.5	1337.3
12.5°	1009.3	1053.0	1077.2	1229.8	1319.3
15°	974.8	1005.5	1023.5	1157.9	1298.9
17.5°	947.9	969.7	982.5	1087.6	1270.7
20°	931.2	941.5	953.0	1036.3	1238.6
22.5°	919.8	913.4	922.2	1000.5	1195.1
25°	912.0	887.7	898.0	972.3	1143.9
27.5°	918.4	864.7	868.5	946.6	1090.1
30°	919.8	836.5	837.7	919.8	1029.9
32.5°	910.8	807.0	808.3	886.4	962.0
35°	889.0	772.4	771.2	847.9	869.7
37.5°	859.5	735.3	735.3	805.7	768.6
40°	823.7	698.1	701.9	750.6	678.9
42.5°	780.1	658.4	663.5	677.7	612.3
45°	732.7	620.0	623.8	572.6	561.1
47.5°	680.2	580.3	581.6	475.2	544.4
50°	617.4	539.3	534.1	407.3	543.1
52.5°	562.3	494.4	479.0	368.9	493.2
55°	508.5	447.0	413.7	339.4	457.3
57.5°	461.2	385.5	353.5	304.8	449.6
60°	417.6	325.4	301.0	267.7	412.5
62.5°	381.7	280.5	275.4	242.1	374.1
65°	343.3	249.8	248.5	220.3	317.6
67.5°	306.2	229.3	228.1	199.8	242.1
70°	266.4	207.5	204.9	178.0	179.3
72.5°	225.5	183.2	180.6	160.2	148.6
75°	184.4	155.0	153.8	139.6	120.4
77.5°	144.8	123.0	125.5	112.7	88.4
80°	103.7	89.7	92.3	80.7	66.6
82.5°	69.1	58.9	61.5	51.3	44.8
85°	38.4	33.3	34.6	26.9	20.5
87.5°	18.0	15.4	15.4	10.2	6.4
90°	8.4	5.3	5.0	3.4	1.9
92.5°	52.0	37.0	33.7	20.6	7.6
95°	127.7	71.9	66.0	42.1	18.3
97.5°	172.0	79.0	73.7	52.8	31.8
100°	188.1	84.9	80.1	61.1	42.1
102.5°	195.6	90.8	86.4	68.7	50.9
105°	201.1	99.7	96.0	80.9	65.8
107.5°	202.1	112.7	109.2	95.1	81.1
110°	200.5	119.9	116.8	104.1	91.5



TEST NUMBER: P933895
 CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-4000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	200.6	128.7	125.7	113.6	101.6
115°	202.5	141.9	139.1	128.0	116.9
117.5°	206.3	154.8	152.2	142.1	132.0
120°	209.3	162.3	159.9	150.3	140.8
122.5°	213.7	171.0	168.7	159.0	149.4
125°	219.6	182.3	180.1	171.4	162.6
127.5°	225.6	193.2	191.0	182.1	173.3
130°	229.9	200.5	198.1	188.6	179.1
132.5°	233.4	206.4	204.0	194.5	185.0
135°	237.2	213.3	211.2	202.5	193.8
137.5°	243.0	222.1	219.9	211.3	202.7
140°	246.5	228.1	226.0	218.1	210.2
142.5°	249.4	232.4	230.6	223.3	216.0
145°	253.3	239.1	237.5	231.2	224.8
147.5°	258.8	247.5	246.0	239.8	233.6
150°	261.8	251.9	250.5	245.0	239.3
152.5°	263.7	254.8	253.7	249.4	245.2
155°	267.9	261.1	260.3	257.2	254.0
157.5°	272.1	267.4	266.6	263.6	260.5
160°	274.0	270.3	269.7	267.3	264.9
162.5°	276.0	273.3	272.8	271.1	269.3
165°	279.1	277.8	277.4	275.8	274.2
167.5°	281.3	280.3	280.1	279.3	278.6
170°	283.3	283.2	283.0	282.2	281.4
172.5°	283.3	283.3	283.3	283.2	283.0
175°	284.5	285.1	285.1	285.1	285.1
177.5°	284.6	285.1	285.1	285.1	285.1
180°	285.1	285.1	285.1	285.1	285.1



TEST NUMBER: P933895
 CATALOG NUMBER: SQ4-FA-025U-050D-B2750-1D-UNV-STD-W-8-4000K

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	12.51	13.53	13.32	14.37	15.40	15.35	16.37	16.16	17.21	18.24
	3H	13.00	13.92	13.83	14.76	15.82	16.71	17.63	17.54	18.47	19.53
	4H	13.20	14.06	14.04	14.92	15.99	17.16	18.03	18.01	18.88	19.95
	6H	13.33	14.12	14.18	14.98	16.07	17.46	18.26	18.31	19.12	20.20
	8H	13.33	14.09	14.20	14.97	16.05	17.54	18.30	18.40	19.18	20.26
	12H	13.31	14.03	14.18	14.90	16.01	17.58	18.31	18.45	19.18	20.29
4H	2H	13.57	14.43	14.41	15.28	16.35	15.78	16.64	16.63	17.49	18.56
	3H	14.61	15.33	15.47	16.21	17.30	17.30	18.02	18.16	18.91	19.99
	4H	14.89	15.55	15.76	16.43	17.54	17.84	18.49	18.71	19.38	20.49
	6H	15.03	15.59	15.91	16.50	17.61	18.21	18.78	19.10	19.69	20.80
	8H	15.04	15.56	15.92	16.46	17.59	18.33	18.86	19.21	19.76	20.88
	12H	15.01	15.49	15.92	16.41	17.54	18.39	18.87	19.30	19.79	20.92
8H	4H	15.36	15.89	16.25	16.79	17.92	17.98	18.50	18.86	19.40	20.53
	6H	15.63	16.07	16.54	17.01	18.14	18.42	18.86	19.34	19.80	20.93
	8H	15.67	16.06	16.60	16.99	18.14	18.58	18.96	19.50	19.90	21.04
	12H	15.66	16.00	16.59	16.93	18.13	18.68	19.02	19.61	19.95	21.15
12H	4H	15.37	15.85	16.28	16.77	17.90	17.95	18.42	18.86	19.34	20.48
	6H	15.69	16.08	16.62	17.01	18.16	18.42	18.81	19.35	19.74	20.89
	8H	15.76	16.11	16.69	17.03	18.23	18.59	18.93	19.52	19.86	21.05