

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: P934086

Luminaire Tested: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934086
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786
Test Lab: INNOVATION CENTER
Issue Date: 12/17/2024
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-5000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

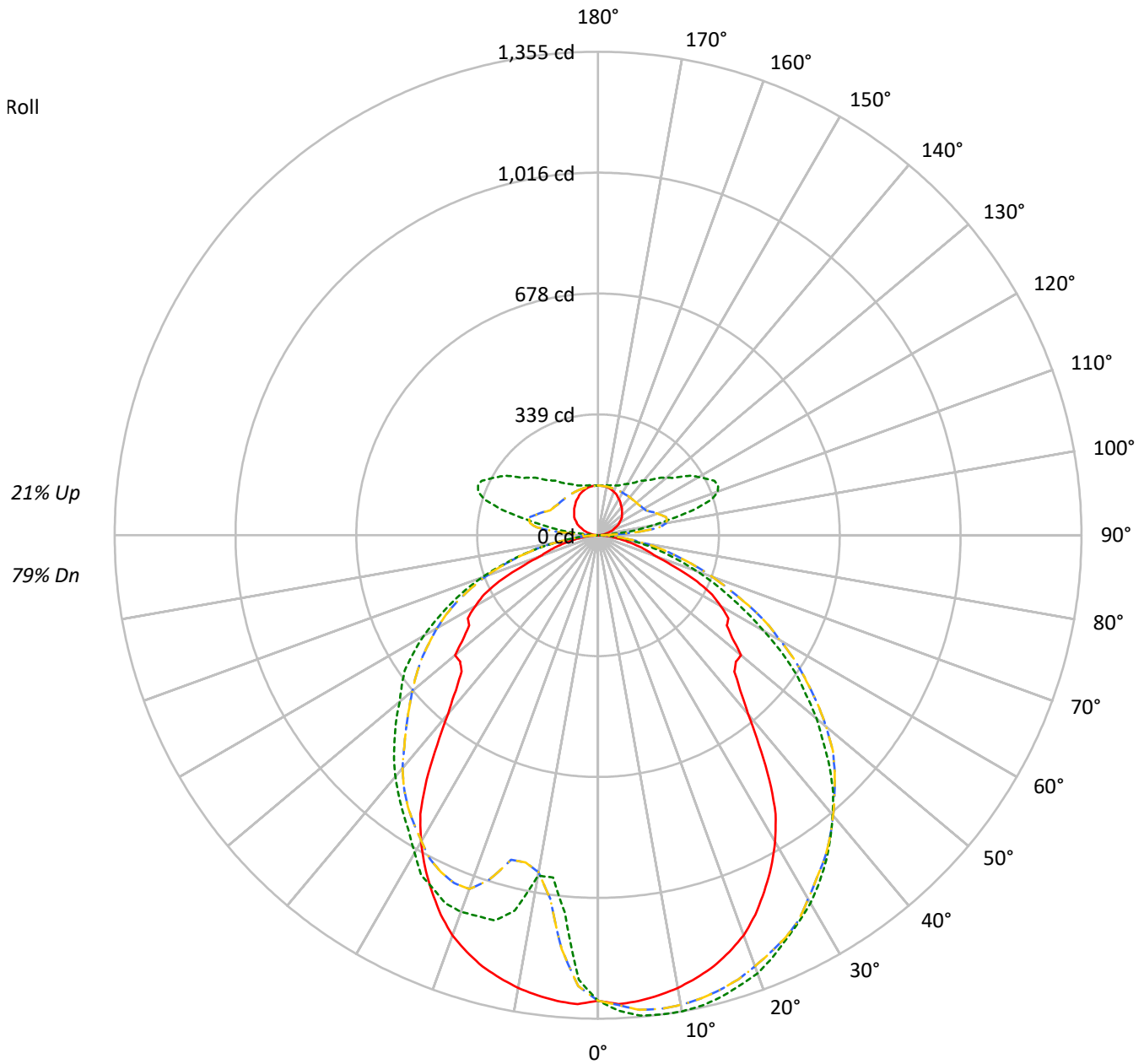
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4286.1 lumens
Efficiency: N/A
Efficacy: 110.5 lumens/watt
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')
CIE Type: Semi-Direct

Input Watts (W): 38.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

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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	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79			79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67			67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56			56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47			47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41			41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35			35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31			31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27			27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24			24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22			22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20			20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	12103	12103	12103	12103
5°	12181	12218	12181	9607
10°	12087	12036	12087	8604
15°	11941	11774	11941	9832
20°	11677	11466	11677	9852
25°	11153	11016	11153	9643
30°	10480	10642	10480	9186
35°	9328	10169	9328	8682
40°	7760	9611	7760	8301
45°	6920	8959	6920	7864
50°	7334	8182	7334	7424
55°	6882	7344	6882	7170
60°	7067	6237	7067	6567
65°	6379	5155	6379	5763
70°	4387	4110	4387	4832
75°	3804	3037	3804	3637
80°	3005	2009	3005	2188
85°	1631	1062	1631	903

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 10627 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	117.7	2.7
10°-20°	334.3	7.8
20°-30°	516.8	12.1
30°-40°	616.9	14.4
40°-50°	620.5	14.5
50°-60°	539.9	12.6
60°-70°	382.8	8.9
70°-80°	202.5	4.7
80°-90°	51.0	1.2
90°-100°	67.9	1.6
100°-110°	178.6	4.2
110°-120°	185.2	4.3
120°-130°	148.6	3.5
130°-140°	116.6	2.7
140°-150°	89.5	2.1
150°-160°	64.4	1.5
160°-170°	39.4	0.9
170°-180°	13.3	0.3
0°-30°	968.8	22.6
0°-40°	1585.7	37.0
0°-60°	2746.2	64.1
0°-90°	3382.5	78.9
90°-120°	431.8	10.1
90°-150°	786.4	18.3
90°-180°	904.0	21.1
0°-180°	4286.1	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1304	1304	1304	1304	1304	
5°	1311	1351	1311	1062	1311	124
15°	1251	1339	1251	1118	1251	352
25°	1102	1249	1102	1093	1102	506
35°	838	1114	838	952	838	518
45°	540	918	540	806	540	433
55°	441	678	441	662	441	405
65°	306	408	306	457	306	292
75°	116	194	116	232	116	122
85°	20	49	20	42	20	27
90°	1	4	1	4	1	2
95°	9	41	9	41	9	10
105°	32	280	32	280	32	34
115°	57	360	57	360	57	56
125°	80	287	80	287	80	71
135°	95	223	95	223	95	73
145°	110	180	110	180	110	69
155°	124	156	124	156	124	57
165°	134	145	134	145	134	38
175°	139	140	139	140	139	13
180°	139	139	139	139	139	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1315.4	1315.4	1322.9	1325.3	1325.3	1321.6	1318.0	1321.6	1332.7	1336.5	1335.2
5°	1310.6	1320.4	1334.0	1336.5	1338.9	1337.7	1335.2	1337.7	1350.0	1352.5	1353.7
7.5°	1300.7	1319.2	1336.5	1340.2	1343.8	1340.2	1338.9	1341.4	1353.7	1356.2	1356.2
10°	1288.4	1314.2	1334.0	1336.5	1340.2	1336.5	1336.5	1341.4	1353.7	1356.2	1357.5
12.5°	1271.1	1306.9	1325.3	1327.9	1332.7	1331.5	1330.3	1335.2	1347.6	1350.0	1350.0
15°	1251.3	1293.3	1310.6	1313.0	1321.6	1319.2	1319.2	1324.1	1337.7	1341.4	1340.2
17.5°	1224.2	1276.0	1295.7	1299.5	1305.6	1304.3	1305.6	1310.6	1322.9	1325.3	1326.6
20°	1193.3	1252.6	1276.0	1279.7	1285.8	1285.8	1285.8	1292.0	1304.3	1309.3	1309.3
22.5°	1151.3	1227.8	1252.6	1255.0	1262.4	1262.4	1264.9	1273.5	1284.6	1285.8	1285.8
25°	1102.0	1200.8	1221.7	1229.1	1236.5	1240.2	1243.9	1248.9	1252.6	1251.3	1252.6
27.5°	1050.2	1166.2	1193.3	1198.2	1208.1	1211.9	1216.7	1218.0	1219.2	1222.9	1220.5
30°	992.2	1118.0	1158.7	1163.7	1179.7	1182.2	1177.3	1179.7	1185.9	1188.4	1190.9
32.5°	926.7	1046.5	1122.9	1134.1	1148.9	1141.4	1140.2	1144.0	1153.9	1153.9	1156.3
35°	837.9	991.0	1089.7	1099.5	1110.6	1102.0	1106.9	1108.2	1114.4	1118.0	1116.8
37.5°	740.4	942.8	1055.1	1062.5	1071.1	1060.0	1067.5	1071.1	1076.1	1073.6	1073.6
40°	654.1	867.5	1014.4	1019.3	1026.7	1018.1	1025.4	1028.0	1030.4	1028.0	1026.7
42.5°	589.9	784.8	971.2	977.3	972.4	978.6	981.1	986.0	982.3	977.3	977.3
45°	540.5	762.6	924.3	931.7	924.3	934.2	937.8	937.8	926.7	924.3	923.1
47.5°	524.4	718.2	877.4	877.4	873.7	886.0	892.3	883.6	872.4	868.8	868.8
50°	523.2	668.8	813.2	808.3	825.6	840.4	834.2	825.6	817.0	803.3	803.3
52.5°	475.1	608.4	730.6	749.1	776.2	784.8	774.9	766.3	751.5	745.3	740.4
55°	440.6	545.5	655.3	692.3	720.7	731.8	713.3	704.6	682.4	678.7	676.2
57.5°	433.2	454.1	586.2	633.1	667.6	666.4	655.3	639.2	620.7	617.0	615.8
60°	397.3	328.2	512.1	567.7	603.5	599.7	589.9	575.1	557.8	555.4	552.8
62.5°	360.3	238.2	428.2	491.2	541.7	540.5	531.9	509.7	497.4	491.2	486.2
65°	306.1	199.9	304.8	408.4	481.3	483.7	465.2	449.2	435.6	428.2	426.9
67.5°	233.2	162.9	206.0	340.6	423.3	420.8	397.3	389.9	372.7	368.9	361.6
70°	172.8	108.6	143.2	276.5	366.5	360.3	341.8	333.2	317.2	308.5	303.6
72.5°	143.2	87.6	104.9	214.7	308.5	301.1	285.1	275.2	261.6	254.2	249.3
75°	116.0	92.6	80.2	159.2	250.5	245.5	230.8	220.9	209.8	199.9	201.2
77.5°	85.2	86.4	64.2	117.2	198.7	191.3	182.6	170.3	165.3	155.5	155.5
80°	64.2	67.9	48.1	80.2	143.2	143.2	135.7	127.1	118.4	113.6	113.6
82.5°	43.2	43.2	35.8	50.6	97.5	93.8	88.8	86.4	81.4	79.0	79.0
85°	19.7	24.7	22.2	30.8	53.1	55.6	55.6	53.1	51.8	49.3	50.6
87.5°	6.2	11.1	13.5	17.3	27.2	28.4	29.6	29.6	29.6	30.8	30.8
90°	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8	3.5	3.5
92.5°	3.7	10.1	16.4	18.0	25.4	35.2	40.1	35.1	25.2	17.7	17.0
95°	9.0	20.6	32.3	35.2	62.5	98.8	117.0	104.4	79.2	60.3	58.2
97.5°	15.5	25.8	36.1	38.7	84.2	144.8	175.1	167.2	151.2	139.3	135.1
100°	20.5	29.9	39.2	41.6	92.0	159.3	193.0	193.5	194.7	195.6	190.7
102.5°	24.8	33.5	42.3	44.5	95.6	163.9	198.0	208.2	228.5	243.7	239.5
105°	32.2	39.6	46.9	48.8	98.4	164.4	197.4	220.2	265.7	299.8	297.6
107.5°	39.7	46.5	53.4	55.1	98.8	157.1	186.2	218.0	281.4	329.0	329.6
110°	44.7	50.9	57.1	58.7	98.1	150.7	176.9	212.4	283.3	336.5	338.9



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	49.7	55.6	61.5	63.0	98.1	145.0	168.4	204.7	277.3	331.8	335.3
115°	57.2	62.6	68.0	69.4	99.0	138.5	158.2	193.2	263.1	315.5	320.5
117.5°	64.5	69.5	74.4	75.7	100.9	134.4	151.2	182.8	245.8	293.2	298.7
120°	68.8	73.5	78.2	79.3	102.3	133.0	148.3	177.2	234.9	278.1	283.5
122.5°	73.0	77.7	82.4	83.6	104.4	132.3	146.2	172.1	224.1	263.0	268.2
125°	79.5	83.8	88.1	89.2	107.4	131.7	143.8	165.9	210.1	243.1	248.0
127.5°	84.7	89.1	93.4	94.5	110.3	131.3	141.9	160.8	198.8	227.1	231.3
130°	87.5	92.2	96.9	98.1	112.5	131.6	141.1	158.0	191.8	217.1	220.8
132.5°	90.5	95.2	99.8	101.0	114.1	131.7	140.5	155.6	185.8	208.5	211.8
135°	94.8	99.0	103.3	104.3	116.0	131.6	139.4	152.0	177.3	196.2	199.1
137.5°	99.2	103.4	107.6	108.6	118.8	132.3	139.2	149.8	171.2	187.3	189.7
140°	102.8	106.7	110.6	111.5	120.5	132.5	138.5	147.8	166.3	180.1	182.3
142.5°	105.6	109.2	112.7	113.7	122.0	133.0	138.5	146.6	162.9	175.0	177.0
145°	109.9	113.0	116.2	116.9	123.8	133.0	137.6	144.2	157.5	167.5	169.0
147.5°	114.2	117.2	120.3	121.0	126.6	133.9	137.6	142.8	153.3	161.1	162.3
150°	117.0	119.7	122.5	123.2	128.0	134.4	137.6	142.0	150.8	157.5	158.4
152.5°	119.9	122.0	124.0	124.6	128.9	134.7	137.6	141.3	148.9	154.6	155.3
155°	124.2	125.7	127.3	127.7	130.9	135.3	137.6	140.6	146.6	151.1	151.6
157.5°	127.4	128.9	130.4	130.8	133.0	136.1	137.6	139.9	144.6	148.0	148.4
160°	129.5	130.7	131.9	132.2	133.9	136.4	137.6	139.5	143.6	146.5	146.7
162.5°	131.7	132.5	133.5	133.7	135.0	136.7	137.6	139.3	142.6	145.1	145.3
165°	134.0	134.8	135.6	135.8	136.4	137.2	137.6	138.8	141.2	143.0	143.2
167.5°	136.2	136.6	136.9	137.0	137.5	138.1	138.5	139.3	140.8	142.1	142.2
170°	137.6	138.0	138.3	138.4	138.4	138.5	138.5	139.3	140.8	142.1	142.1
172.5°	138.3	138.4	138.5	138.5	138.5	138.5	138.5	139.2	140.4	141.3	141.2
175°	139.4	139.4	139.4	139.4	139.1	138.7	138.5	138.9	139.7	140.3	140.3
177.5°	139.4	139.4	139.4	139.4	139.2	138.9	138.7	139.0	139.6	140.1	140.0
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1337.7	1334.0	1337.7	1335.2	1336.5	1332.7	1321.6	1318.0	1321.6	1325.3	1325.3
5°	1353.7	1351.3	1353.7	1353.7	1352.5	1350.0	1337.7	1335.2	1337.7	1338.9	1336.5
7.5°	1358.7	1355.0	1358.7	1356.2	1356.2	1353.7	1341.4	1338.9	1340.2	1343.8	1340.2
10°	1358.7	1355.0	1358.7	1357.5	1356.2	1353.7	1341.4	1336.5	1336.5	1340.2	1336.5
12.5°	1352.5	1350.0	1352.5	1350.0	1350.0	1347.6	1335.2	1330.3	1331.5	1332.7	1327.9
15°	1342.6	1338.9	1342.6	1340.2	1341.4	1337.7	1324.1	1319.2	1319.2	1321.6	1313.0
17.5°	1327.9	1322.9	1327.9	1326.6	1325.3	1322.9	1310.6	1305.6	1304.3	1305.6	1299.5
20°	1310.6	1306.9	1310.6	1309.3	1309.3	1304.3	1292.0	1285.8	1285.8	1285.8	1279.7
22.5°	1283.4	1279.7	1283.4	1285.8	1285.8	1284.6	1273.5	1264.9	1262.4	1262.4	1255.0
25°	1252.6	1248.9	1252.6	1252.6	1251.3	1252.6	1248.9	1243.9	1240.2	1236.5	1229.1
27.5°	1222.9	1220.5	1222.9	1220.5	1222.9	1219.2	1218.0	1216.7	1211.9	1208.1	1198.2
30°	1193.3	1190.9	1193.3	1190.9	1188.4	1185.9	1179.7	1177.3	1182.2	1179.7	1163.7
32.5°	1156.3	1153.9	1156.3	1156.3	1153.9	1153.9	1144.0	1140.2	1141.4	1148.9	1134.1
35°	1118.0	1114.4	1118.0	1116.8	1118.0	1114.4	1108.2	1106.9	1102.0	1110.6	1099.5
37.5°	1073.6	1069.9	1073.6	1073.6	1073.6	1076.1	1071.1	1067.5	1060.0	1071.1	1062.5
40°	1028.0	1023.0	1028.0	1026.7	1028.0	1030.4	1028.0	1025.4	1018.1	1026.7	1019.3
42.5°	976.1	974.9	976.1	977.3	977.3	982.3	986.0	981.1	978.6	972.4	977.3
45°	920.6	918.1	920.6	923.1	924.3	926.7	937.8	937.8	934.2	924.3	931.7
47.5°	861.3	855.2	861.3	868.8	868.8	872.4	883.6	892.3	886.0	873.7	877.4
50°	798.4	799.7	798.4	803.3	803.3	817.0	825.6	834.2	840.4	825.6	808.3
52.5°	736.7	735.5	736.7	740.4	745.3	751.5	766.3	774.9	784.8	776.2	749.1
55°	675.0	677.5	675.0	676.2	678.7	682.4	704.6	713.3	731.8	720.7	692.3
57.5°	613.4	609.6	613.4	615.8	617.0	620.7	639.2	655.3	666.4	667.6	633.1
60°	541.7	536.8	541.7	552.8	555.4	557.8	575.1	589.9	599.7	603.5	567.7
62.5°	478.8	470.2	478.8	486.2	491.2	497.4	509.7	531.9	540.5	541.7	491.2
65°	412.2	408.4	412.2	426.9	428.2	435.6	449.2	465.2	483.7	481.3	408.4
67.5°	351.7	351.7	351.7	361.6	368.9	372.7	389.9	397.3	420.8	423.3	340.6
70°	296.2	295.0	296.2	303.6	308.5	317.2	333.2	341.8	360.3	366.5	276.5
72.5°	243.1	241.9	243.1	249.3	254.2	261.6	275.2	285.1	301.1	308.5	214.7
75°	196.2	193.7	196.2	201.2	199.9	209.8	220.9	230.8	245.5	250.5	159.2
77.5°	150.6	150.6	150.6	155.5	155.5	165.3	170.3	182.6	191.3	198.7	117.2
80°	112.3	111.1	112.3	113.6	113.6	118.4	127.1	135.7	143.2	143.2	80.2
82.5°	79.0	76.5	79.0	79.0	79.0	81.4	86.4	88.8	93.8	97.5	50.6
85°	49.3	49.3	49.3	50.6	49.3	51.8	53.1	55.6	55.6	53.1	30.8
87.5°	32.1	30.8	32.1	30.8	30.8	29.6	29.6	29.6	28.4	27.2	17.3
90°	3.5	3.5	3.5	3.5	3.5	4.8	6.4	7.1	6.1	4.1	2.6
92.5°	14.2	11.4	14.2	17.0	17.7	25.2	35.1	40.1	35.2	25.4	18.0
95°	49.7	41.1	49.7	58.2	60.3	79.2	104.4	117.0	98.8	62.5	35.2
97.5°	118.9	102.6	118.9	135.1	139.3	151.2	167.2	175.1	144.8	84.2	38.7
100°	171.4	152.0	171.4	190.7	195.6	194.7	193.5	193.0	159.3	92.0	41.6
102.5°	222.9	206.2	222.9	239.5	243.7	228.5	208.2	198.0	163.9	95.6	44.5
105°	288.7	279.7	288.7	297.6	299.8	265.7	220.2	197.4	164.4	98.4	48.8
107.5°	331.8	333.9	331.8	329.6	329.0	281.4	218.0	186.2	157.1	98.8	55.1
110°	348.1	357.4	348.1	338.9	336.5	283.3	212.4	176.9	150.7	98.1	58.7



TEST NUMBER: P934086

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	349.6	363.9	349.6	335.3	331.8	277.3	204.7	168.4	145.0	98.1	63.0
115°	340.3	360.2	340.3	320.5	315.5	263.1	193.2	158.2	138.5	99.0	69.4
117.5°	320.6	342.7	320.6	298.7	293.2	245.8	182.8	151.2	134.4	100.9	75.7
120°	304.9	326.2	304.9	283.5	278.1	234.9	177.2	148.3	133.0	102.3	79.3
122.5°	289.4	310.5	289.4	268.2	263.0	224.1	172.1	146.2	132.3	104.4	83.6
125°	267.4	286.8	267.4	248.0	243.1	210.1	165.9	143.8	131.7	107.4	89.2
127.5°	247.6	263.9	247.6	231.3	227.1	198.8	160.8	141.9	131.3	110.3	94.5
130°	235.9	251.1	235.9	220.8	217.1	191.8	158.0	141.1	131.6	112.5	98.1
132.5°	225.4	238.9	225.4	211.8	208.5	185.8	155.6	140.5	131.7	114.1	101.0
135°	210.9	222.6	210.9	199.1	196.2	177.3	152.0	139.4	131.6	116.0	104.3
137.5°	199.2	208.8	199.2	189.7	187.3	171.2	149.8	139.2	132.3	118.8	108.6
140°	191.2	200.2	191.2	182.3	180.1	166.3	147.8	138.5	132.5	120.5	111.5
142.5°	184.7	192.3	184.7	177.0	175.0	162.9	146.6	138.5	133.0	122.0	113.7
145°	174.8	180.5	174.8	169.0	167.5	157.5	144.2	137.6	133.0	123.8	116.9
147.5°	167.1	171.9	167.1	162.3	161.1	153.3	142.8	137.6	133.9	126.6	121.0
150°	162.3	166.3	162.3	158.4	157.5	150.8	142.0	137.6	134.4	128.0	123.2
152.5°	158.2	161.2	158.2	155.3	154.6	148.9	141.3	137.6	134.7	128.9	124.6
155°	153.5	155.5	153.5	151.6	151.1	146.6	140.6	137.6	135.3	130.9	127.7
157.5°	149.8	151.2	149.8	148.4	148.0	144.6	139.9	137.6	136.1	133.0	130.8
160°	147.6	148.3	147.6	146.7	146.5	143.6	139.5	137.6	136.4	133.9	132.2
162.5°	146.1	146.8	146.1	145.3	145.1	142.6	139.3	137.6	136.7	135.0	133.7
165°	144.0	144.8	144.0	143.2	143.0	141.2	138.8	137.6	137.2	136.4	135.8
167.5°	142.4	142.8	142.4	142.2	142.1	140.8	139.3	138.5	138.1	137.5	137.0
170°	142.1	142.1	142.1	142.1	142.1	140.8	139.3	138.5	138.5	138.4	138.4
172.5°	140.9	140.7	140.9	141.2	141.3	140.4	139.2	138.5	138.5	138.5	138.5
175°	140.3	140.3	140.3	140.3	140.3	139.7	138.9	138.5	138.7	139.1	139.4
177.5°	139.7	139.4	139.7	140.0	140.1	139.6	139.0	138.7	138.9	139.2	139.4
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4



TEST NUMBER: P934086

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1322.9	1315.4	1315.4	1303.1	1298.2	1294.5	1288.4	1269.9	1264.9	1260.0	1267.3
5°	1334.0	1320.4	1310.6	1288.4	1269.9	1262.4	1239.0	1194.6	1164.9	1142.7	1130.4
7.5°	1336.5	1319.2	1300.7	1266.1	1221.7	1202.0	1130.4	1049.0	1026.7	1006.9	994.6
10°	1334.0	1314.2	1288.4	1236.5	1131.6	1097.1	1025.4	972.4	958.8	955.1	958.8
12.5°	1325.3	1306.9	1271.1	1184.7	1037.9	1014.4	972.4	941.6	939.1	945.3	978.6
15°	1310.6	1293.3	1251.3	1115.6	986.0	968.7	939.1	928.0	941.6	984.7	1084.7
17.5°	1295.7	1276.0	1224.2	1047.7	946.5	934.2	913.2	935.4	1011.9	1069.9	1103.2
20°	1276.0	1252.6	1193.3	998.4	918.1	907.0	897.1	997.1	1055.1	1076.1	1094.6
22.5°	1252.6	1227.8	1151.3	963.8	888.5	879.8	886.0	1031.7	1055.1	1069.9	1086.0
25°	1221.7	1200.8	1102.0	936.6	865.1	855.2	878.6	1028.0	1041.5	1045.2	1077.3
27.5°	1193.3	1166.2	1050.2	912.0	836.7	832.9	884.8	1011.9	1021.8	1025.4	1060.0
30°	1158.7	1118.0	992.2	886.0	807.1	805.9	886.0	992.2	989.7	999.6	1034.1
32.5°	1122.9	1046.5	926.7	854.0	778.7	777.5	877.4	962.6	960.1	973.7	999.6
35°	1089.7	991.0	837.9	817.0	742.9	744.1	856.4	928.0	929.2	941.6	957.6
37.5°	1055.1	942.8	740.4	776.2	708.3	708.3	828.0	895.9	893.5	897.1	919.3
40°	1014.4	867.5	654.1	723.1	676.2	672.6	793.5	861.3	852.7	851.5	882.3
42.5°	971.2	784.8	589.9	652.8	639.2	634.3	751.5	819.4	803.3	807.1	846.6
45°	924.3	762.6	540.5	551.6	600.9	597.3	705.8	771.3	760.2	770.1	810.8
47.5°	877.4	718.2	524.4	457.8	560.2	559.0	655.3	724.4	718.2	728.1	771.3
50°	813.2	668.8	523.2	392.5	514.6	519.5	594.8	678.7	678.7	687.3	733.0
52.5°	730.6	608.4	475.1	355.4	461.5	476.3	541.7	639.2	641.7	650.3	691.1
55°	655.3	545.5	440.6	327.0	398.6	430.7	489.9	598.5	603.5	612.1	649.1
57.5°	586.2	454.1	433.2	293.7	340.6	371.5	444.2	559.0	561.5	568.9	604.7
60°	512.1	328.2	397.3	257.9	290.0	313.5	402.3	512.1	520.8	525.7	556.6
62.5°	428.2	238.2	360.3	233.2	265.3	270.3	367.7	467.7	478.8	482.5	501.0
65°	304.8	199.9	306.1	212.3	239.4	240.6	330.7	422.1	431.9	438.0	451.7
67.5°	206.0	162.9	233.2	192.5	219.7	220.9	295.0	368.9	382.6	387.5	396.1
70°	143.2	108.6	172.8	171.6	197.4	199.9	256.7	320.8	333.2	336.9	341.8
72.5°	104.9	87.6	143.2	154.3	174.0	176.4	217.2	266.6	278.9	282.6	285.1
75°	80.2	92.6	116.0	134.5	148.0	149.3	177.7	217.2	225.8	228.3	229.5
77.5°	64.2	86.4	85.2	108.6	121.0	118.4	139.4	167.8	175.2	175.2	175.2
80°	48.1	67.9	64.2	77.7	88.8	86.4	99.9	119.7	122.2	124.6	123.4
82.5°	35.8	43.2	43.2	49.3	59.2	56.8	66.6	77.7	77.7	77.7	80.2
85°	22.2	24.7	19.7	25.9	33.3	32.1	37.0	41.9	43.2	43.2	40.7
87.5°	13.5	11.1	6.2	9.9	14.9	14.9	17.3	18.5	17.3	17.3	17.3
90°	2.4	1.7	0.9	1.7	2.4	2.6	4.1	6.1	7.1	6.4	4.8
92.5°	16.4	10.1	3.7	10.1	16.4	18.0	25.4	35.2	40.1	35.1	25.2
95°	32.3	20.6	9.0	20.6	32.3	35.2	62.5	98.8	117.0	104.4	79.2
97.5°	36.1	25.8	15.5	25.8	36.1	38.7	84.2	144.8	175.1	167.2	151.2
100°	39.2	29.9	20.5	29.9	39.2	41.6	92.0	159.3	193.0	193.5	194.7
102.5°	42.3	33.5	24.8	33.5	42.3	44.5	95.6	163.9	198.0	208.2	228.5
105°	46.9	39.6	32.2	39.6	46.9	48.8	98.4	164.4	197.4	220.2	265.7
107.5°	53.4	46.5	39.7	46.5	53.4	55.1	98.8	157.1	186.2	218.0	281.4
110°	57.1	50.9	44.7	50.9	57.1	58.7	98.1	150.7	176.9	212.4	283.3



TEST NUMBER: P934086

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	61.5	55.6	49.7	55.6	61.5	63.0	98.1	145.0	168.4	204.7	277.3
115°	68.0	62.6	57.2	62.6	68.0	69.4	99.0	138.5	158.2	193.2	263.1
117.5°	74.4	69.5	64.5	69.5	74.4	75.7	100.9	134.4	151.2	182.8	245.8
120°	78.2	73.5	68.8	73.5	78.2	79.3	102.3	133.0	148.3	177.2	234.9
122.5°	82.4	77.7	73.0	77.7	82.4	83.6	104.4	132.3	146.2	172.1	224.1
125°	88.1	83.8	79.5	83.8	88.1	89.2	107.4	131.7	143.8	165.9	210.1
127.5°	93.4	89.1	84.7	89.1	93.4	94.5	110.3	131.3	141.9	160.8	198.8
130°	96.9	92.2	87.5	92.2	96.9	98.1	112.5	131.6	141.1	158.0	191.8
132.5°	99.8	95.2	90.5	95.2	99.8	101.0	114.1	131.7	140.5	155.6	185.8
135°	103.3	99.0	94.8	99.0	103.3	104.3	116.0	131.6	139.4	152.0	177.3
137.5°	107.6	103.4	99.2	103.4	107.6	108.6	118.8	132.3	139.2	149.8	171.2
140°	110.6	106.7	102.8	106.7	110.6	111.5	120.5	132.5	138.5	147.8	166.3
142.5°	112.7	109.2	105.6	109.2	112.7	113.7	122.0	133.0	138.5	146.6	162.9
145°	116.2	113.0	109.9	113.0	116.2	116.9	123.8	133.0	137.6	144.2	157.5
147.5°	120.3	117.2	114.2	117.2	120.3	121.0	126.6	133.9	137.6	142.8	153.3
150°	122.5	119.7	117.0	119.7	122.5	123.2	128.0	134.4	137.6	142.0	150.8
152.5°	124.0	122.0	119.9	122.0	124.0	124.6	128.9	134.7	137.6	141.3	148.9
155°	127.3	125.7	124.2	125.7	127.3	127.7	130.9	135.3	137.6	140.6	146.6
157.5°	130.4	128.9	127.4	128.9	130.4	130.8	133.0	136.1	137.6	139.9	144.6
160°	131.9	130.7	129.5	130.7	131.9	132.2	133.9	136.4	137.6	139.5	143.6
162.5°	133.5	132.5	131.7	132.5	133.5	133.7	135.0	136.7	137.6	139.3	142.6
165°	135.6	134.8	134.0	134.8	135.6	135.8	136.4	137.2	137.6	138.8	141.2
167.5°	136.9	136.6	136.2	136.6	136.9	137.0	137.5	138.1	138.5	139.3	140.8
170°	138.3	138.0	137.6	138.0	138.3	138.4	138.4	138.5	138.5	139.3	140.8
172.5°	138.5	138.4	138.3	138.4	138.5	138.5	138.5	138.5	138.5	139.2	140.4
175°	139.4	139.4	139.4	139.4	139.4	139.4	139.1	138.7	138.5	138.9	139.7
177.5°	139.4	139.4	139.4	139.4	139.4	139.4	139.2	138.9	138.7	139.0	139.6
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4



TEST NUMBER: P934086

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1258.8	1255.0	1260.0	1246.3	1260.0	1255.0	1258.8	1267.3	1260.0	1264.9	1269.9
5°	1104.5	1098.3	1078.6	1062.5	1078.6	1098.3	1104.5	1130.4	1142.7	1164.9	1194.6
7.5°	987.2	982.3	977.3	967.4	977.3	982.3	987.2	994.6	1006.9	1026.7	1049.0
10°	961.3	962.6	970.0	968.7	970.0	962.6	961.3	958.8	955.1	958.8	972.4
12.5°	1028.0	1039.1	1079.8	1077.3	1079.8	1039.1	1028.0	978.6	945.3	939.1	941.6
15°	1104.5	1108.2	1116.8	1118.0	1116.8	1108.2	1104.5	1084.7	984.7	941.6	928.0
17.5°	1111.8	1113.1	1119.3	1119.3	1119.3	1113.1	1111.8	1103.2	1069.9	1011.9	935.4
20°	1105.7	1108.2	1120.5	1122.9	1120.5	1108.2	1105.7	1094.6	1076.1	1055.1	997.1
22.5°	1103.2	1108.2	1118.0	1116.8	1118.0	1108.2	1103.2	1086.0	1069.9	1055.1	1031.7
25°	1090.9	1090.9	1092.1	1093.3	1092.1	1090.9	1090.9	1077.3	1045.2	1041.5	1028.0
27.5°	1064.9	1067.5	1074.8	1073.6	1074.8	1067.5	1064.9	1060.0	1025.4	1021.8	1011.9
30°	1041.5	1039.1	1032.9	1028.0	1032.9	1039.1	1041.5	1034.1	999.6	989.7	992.2
32.5°	1002.0	995.8	989.7	986.0	989.7	995.8	1002.0	999.6	973.7	960.1	962.6
35°	955.1	956.4	955.1	951.5	955.1	956.4	955.1	957.6	941.6	929.2	928.0
37.5°	921.9	924.3	923.1	918.1	923.1	924.3	921.9	919.3	897.1	893.5	895.9
40°	887.3	888.5	887.3	883.6	887.3	888.5	887.3	882.3	851.5	852.7	861.3
42.5°	854.0	852.7	849.0	846.6	849.0	852.7	854.0	846.6	807.1	803.3	819.4
45°	815.7	817.0	809.5	805.9	809.5	817.0	815.7	810.8	770.1	760.2	771.3
47.5°	777.5	777.5	771.3	767.6	771.3	777.5	777.5	771.3	728.1	718.2	724.4
50°	736.7	735.5	726.8	725.6	726.8	735.5	736.7	733.0	687.3	678.7	678.7
52.5°	689.9	689.9	691.1	693.5	691.1	689.9	689.9	691.1	650.3	641.7	639.2
55°	649.1	650.3	658.9	661.5	658.9	650.3	649.1	649.1	612.1	603.5	598.5
57.5°	607.1	607.1	613.4	613.4	613.4	607.1	607.1	604.7	568.9	561.5	559.0
60°	559.0	561.5	566.4	565.2	566.4	561.5	559.0	556.6	525.7	520.8	512.1
62.5°	508.4	510.9	512.1	509.7	512.1	510.9	508.4	501.0	482.5	478.8	467.7
65°	455.3	457.8	459.1	456.6	459.1	457.8	455.3	451.7	438.0	431.9	422.1
67.5°	401.1	399.8	398.6	403.5	398.6	399.8	401.1	396.1	387.5	382.6	368.9
70°	345.5	345.5	344.3	346.8	344.3	345.5	345.5	341.8	336.9	333.2	320.8
72.5°	286.3	285.1	290.0	286.3	290.0	285.1	286.3	285.1	282.6	278.9	266.6
75°	228.3	230.8	228.3	232.0	228.3	230.8	228.3	229.5	228.3	225.8	217.2
77.5°	174.0	176.4	174.0	174.0	174.0	176.4	174.0	175.2	175.2	175.2	167.8
80°	123.4	122.2	122.2	121.0	122.2	122.2	123.4	123.4	124.6	122.2	119.7
82.5°	79.0	77.7	77.7	80.2	77.7	77.7	79.0	80.2	77.7	77.7	77.7
85°	43.2	44.5	41.9	41.9	41.9	44.5	43.2	40.7	43.2	43.2	41.9
87.5°	16.1	14.9	14.9	14.9	14.9	14.9	16.1	17.3	17.3	17.3	18.5
90°	3.5	3.5	3.5	3.5	3.5	3.5	3.5	4.8	6.4	7.1	6.1
92.5°	17.7	17.0	14.2	11.4	14.2	17.0	17.7	25.2	35.1	40.1	35.2
95°	60.3	58.2	49.7	41.1	49.7	58.2	60.3	79.2	104.4	117.0	98.8
97.5°	139.3	135.1	118.9	102.6	118.9	135.1	139.3	151.2	167.2	175.1	144.8
100°	195.6	190.7	171.4	152.0	171.4	190.7	195.6	194.7	193.5	193.0	159.3
102.5°	243.7	239.5	222.9	206.2	222.9	239.5	243.7	228.5	208.2	198.0	163.9
105°	299.8	297.6	288.7	279.7	288.7	297.6	299.8	265.7	220.2	197.4	164.4
107.5°	329.0	329.6	331.8	333.9	331.8	329.6	329.0	281.4	218.0	186.2	157.1
110°	336.5	338.9	348.1	357.4	348.1	338.9	336.5	283.3	212.4	176.9	150.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	331.8	335.3	349.6	363.9	349.6	335.3	331.8	277.3	204.7	168.4	145.0
115°	315.5	320.5	340.3	360.2	340.3	320.5	315.5	263.1	193.2	158.2	138.5
117.5°	293.2	298.7	320.6	342.7	320.6	298.7	293.2	245.8	182.8	151.2	134.4
120°	278.1	283.5	304.9	326.2	304.9	283.5	278.1	234.9	177.2	148.3	133.0
122.5°	263.0	268.2	289.4	310.5	289.4	268.2	263.0	224.1	172.1	146.2	132.3
125°	243.1	248.0	267.4	286.8	267.4	248.0	243.1	210.1	165.9	143.8	131.7
127.5°	227.1	231.3	247.6	263.9	247.6	231.3	227.1	198.8	160.8	141.9	131.3
130°	217.1	220.8	235.9	251.1	235.9	220.8	217.1	191.8	158.0	141.1	131.6
132.5°	208.5	211.8	225.4	238.9	225.4	211.8	208.5	185.8	155.6	140.5	131.7
135°	196.2	199.1	210.9	222.6	210.9	199.1	196.2	177.3	152.0	139.4	131.6
137.5°	187.3	189.7	199.2	208.8	199.2	189.7	187.3	171.2	149.8	139.2	132.3
140°	180.1	182.3	191.2	200.2	191.2	182.3	180.1	166.3	147.8	138.5	132.5
142.5°	175.0	177.0	184.7	192.3	184.7	177.0	175.0	162.9	146.6	138.5	133.0
145°	167.5	169.0	174.8	180.5	174.8	169.0	167.5	157.5	144.2	137.6	133.0
147.5°	161.1	162.3	167.1	171.9	167.1	162.3	161.1	153.3	142.8	137.6	133.9
150°	157.5	158.4	162.3	166.3	162.3	158.4	157.5	150.8	142.0	137.6	134.4
152.5°	154.6	155.3	158.2	161.2	158.2	155.3	154.6	148.9	141.3	137.6	134.7
155°	151.1	151.6	153.5	155.5	153.5	151.6	151.1	146.6	140.6	137.6	135.3
157.5°	148.0	148.4	149.8	151.2	149.8	148.4	148.0	144.6	139.9	137.6	136.1
160°	146.5	146.7	147.6	148.3	147.6	146.7	146.5	143.6	139.5	137.6	136.4
162.5°	145.1	145.3	146.1	146.8	146.1	145.3	145.1	142.6	139.3	137.6	136.7
165°	143.0	143.2	144.0	144.8	144.0	143.2	143.0	141.2	138.8	137.6	137.2
167.5°	142.1	142.2	142.4	142.8	142.4	142.2	142.1	140.8	139.3	138.5	138.1
170°	142.1	142.1	142.1	142.1	142.1	142.1	142.1	140.8	139.3	138.5	138.5
172.5°	141.3	141.2	140.9	140.7	140.9	141.2	141.3	140.4	139.2	138.5	138.5
175°	140.3	140.3	140.3	140.3	140.3	140.3	140.3	139.7	138.9	138.5	138.7
177.5°	140.1	140.0	139.7	139.4	139.7	140.0	140.1	139.6	139.0	138.7	138.9
180°	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4	139.4



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1304.3	1304.3	1304.3	1304.3	1304.3
2.5°	1288.4	1294.5	1298.2	1303.1	1315.4
5°	1239.0	1262.4	1269.9	1288.4	1310.6
7.5°	1130.4	1202.0	1221.7	1266.1	1300.7
10°	1025.4	1097.1	1131.6	1236.5	1288.4
12.5°	972.4	1014.4	1037.9	1184.7	1271.1
15°	939.1	968.7	986.0	1115.6	1251.3
17.5°	913.2	934.2	946.5	1047.7	1224.2
20°	897.1	907.0	918.1	998.4	1193.3
22.5°	886.0	879.8	888.5	963.8	1151.3
25°	878.6	855.2	865.1	936.6	1102.0
27.5°	884.8	832.9	836.7	912.0	1050.2
30°	886.0	805.9	807.1	886.0	992.2
32.5°	877.4	777.5	778.7	854.0	926.7
35°	856.4	744.1	742.9	817.0	837.9
37.5°	828.0	708.3	708.3	776.2	740.4
40°	793.5	672.6	676.2	723.1	654.1
42.5°	751.5	634.3	639.2	652.8	589.9
45°	705.8	597.3	600.9	551.6	540.5
47.5°	655.3	559.0	560.2	457.8	524.4
50°	594.8	519.5	514.6	392.5	523.2
52.5°	541.7	476.3	461.5	355.4	475.1
55°	489.9	430.7	398.6	327.0	440.6
57.5°	444.2	371.5	340.6	293.7	433.2
60°	402.3	313.5	290.0	257.9	397.3
62.5°	367.7	270.3	265.3	233.2	360.3
65°	330.7	240.6	239.4	212.3	306.1
67.5°	295.0	220.9	219.7	192.5	233.2
70°	256.7	199.9	197.4	171.6	172.8
72.5°	217.2	176.4	174.0	154.3	143.2
75°	177.7	149.3	148.0	134.5	116.0
77.5°	139.4	118.4	121.0	108.6	85.2
80°	99.9	86.4	88.8	77.7	64.2
82.5°	66.6	56.8	59.2	49.3	43.2
85°	37.0	32.1	33.3	25.9	19.7
87.5°	17.3	14.9	14.9	9.9	6.2
90°	4.1	2.6	2.4	1.7	0.9
92.5°	25.4	18.0	16.4	10.1	3.7
95°	62.5	35.2	32.3	20.6	9.0
97.5°	84.2	38.7	36.1	25.8	15.5
100°	92.0	41.6	39.2	29.9	20.5
102.5°	95.6	44.5	42.3	33.5	24.8
105°	98.4	48.8	46.9	39.6	32.2
107.5°	98.8	55.1	53.4	46.5	39.7
110°	98.1	58.7	57.1	50.9	44.7



TEST NUMBER: P934086

CATALOG NUMBER: SQ4-FA-025U-100D-B2750-1D-UNV-STD-W-4-5000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	98.1	63.0	61.5	55.6	49.7
115°	99.0	69.4	68.0	62.6	57.2
117.5°	100.9	75.7	74.4	69.5	64.5
120°	102.3	79.3	78.2	73.5	68.8
122.5°	104.4	83.6	82.4	77.7	73.0
125°	107.4	89.2	88.1	83.8	79.5
127.5°	110.3	94.5	93.4	89.1	84.7
130°	112.5	98.1	96.9	92.2	87.5
132.5°	114.1	101.0	99.8	95.2	90.5
135°	116.0	104.3	103.3	99.0	94.8
137.5°	118.8	108.6	107.6	103.4	99.2
140°	120.5	111.5	110.6	106.7	102.8
142.5°	122.0	113.7	112.7	109.2	105.6
145°	123.8	116.9	116.2	113.0	109.9
147.5°	126.6	121.0	120.3	117.2	114.2
150°	128.0	123.2	122.5	119.7	117.0
152.5°	128.9	124.6	124.0	122.0	119.9
155°	130.9	127.7	127.3	125.7	124.2
157.5°	133.0	130.8	130.4	128.9	127.4
160°	133.9	132.2	131.9	130.7	129.5
162.5°	135.0	133.7	133.5	132.5	131.7
165°	136.4	135.8	135.6	134.8	134.0
167.5°	137.5	137.0	136.9	136.6	136.2
170°	138.4	138.4	138.3	138.0	137.6
172.5°	138.5	138.5	138.5	138.4	138.3
175°	139.1	139.4	139.4	139.4	139.4
177.5°	139.2	139.4	139.4	139.4	139.4
180°	139.4	139.4	139.4	139.4	139.4



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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	15.79	16.99	16.45	17.67	18.46	18.59	19.79	19.25	20.47	21.25
	3H	16.29	17.37	16.97	18.06	18.88	19.95	21.03	20.62	21.71	22.54
	4H	16.50	17.52	17.20	18.22	19.05	20.40	21.42	21.10	22.12	22.95
	6H	16.64	17.57	17.34	18.28	19.13	20.70	21.63	21.40	22.34	23.19
	8H	16.65	17.54	17.37	18.27	19.12	20.78	21.67	21.50	22.40	23.25
	12H	16.63	17.48	17.35	18.21	19.09	20.82	21.68	21.55	22.40	23.28
4H	2H	16.86	17.87	17.55	18.57	19.41	19.04	20.06	19.74	20.75	21.59
	3H	17.91	18.76	18.62	19.50	20.35	20.57	21.41	21.28	22.15	23.00
	4H	18.20	18.97	18.93	19.71	20.59	21.10	21.87	21.83	22.61	23.49
	6H	18.35	19.01	19.09	19.78	20.67	21.48	22.14	22.22	22.91	23.80
	8H	18.36	18.98	19.11	19.75	20.65	21.59	22.21	22.34	22.97	23.88
	12H	18.35	18.91	19.12	19.69	20.60	21.66	22.22	22.43	23.00	23.91
8H	4H	18.68	19.30	19.43	20.06	20.97	21.25	21.88	22.00	22.64	23.54
	6H	18.95	19.47	19.74	20.27	21.18	21.70	22.21	22.48	23.02	23.92
	8H	19.00	19.46	19.79	20.26	21.18	21.85	22.31	22.64	23.11	24.03
	12H	19.00	19.41	19.79	20.20	21.18	21.95	22.36	22.75	23.15	24.13
12H	4H	18.70	19.26	19.47	20.04	20.95	21.23	21.79	22.01	22.58	23.49
	6H	19.02	19.48	19.81	20.28	21.20	21.70	22.16	22.49	22.96	23.88
	8H	19.10	19.50	19.89	20.30	21.28	21.87	22.27	22.66	23.07	24.05