

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: P934032

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-3000K

Issue Date: 12/17/2024

Test Information

Test Method: LM-79-2019
Report Number: P934032
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-92765-1D-UNV-STD-W-4-3000K
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I
Lens
Light Source: -
Ballast/Driver: -

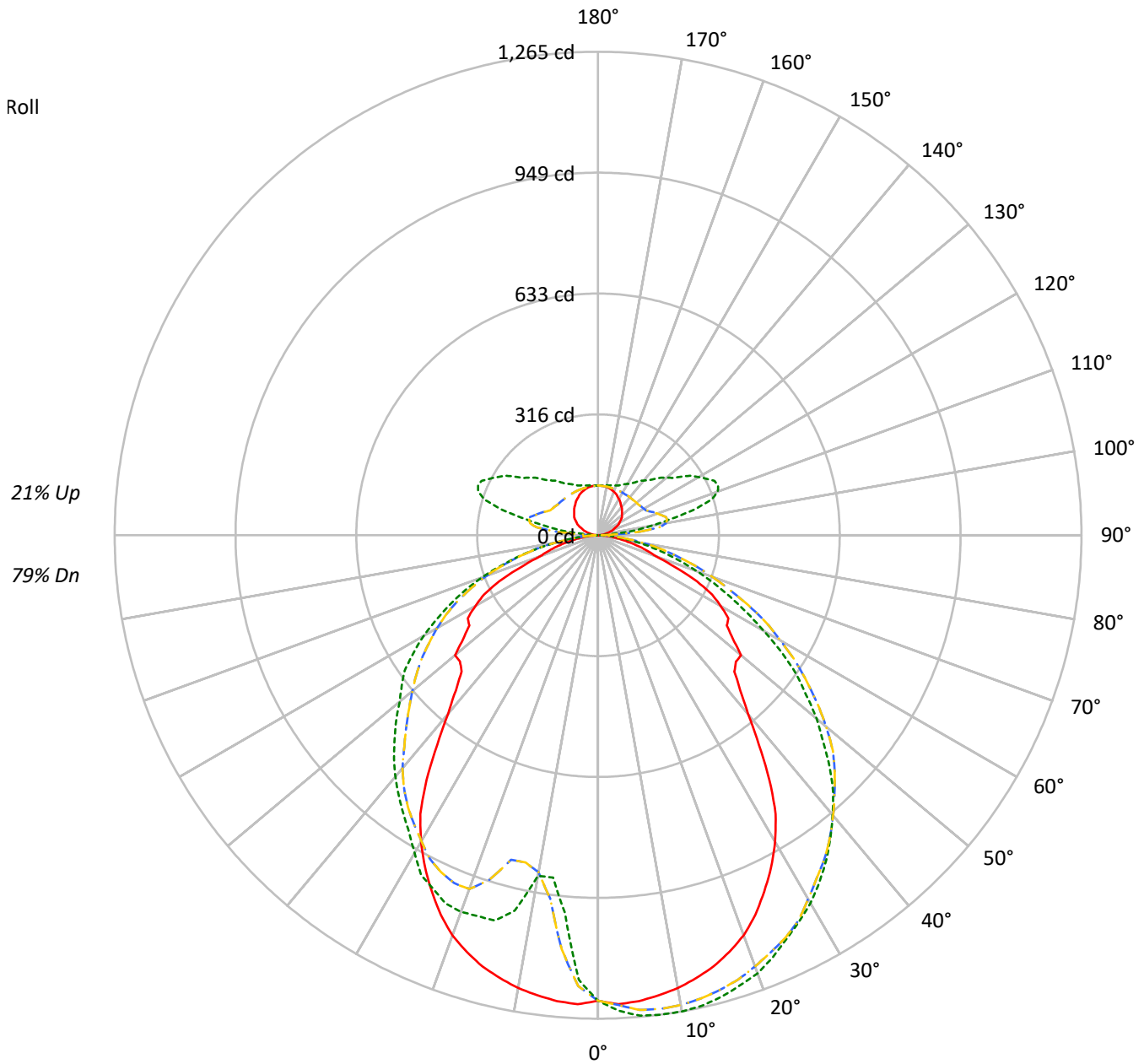
Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4001.7 lumens
Efficiency: N/A
Efficacy: 103.1 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	0
RCR																		
0	114	114	114	114	109	109	109	109	99	99	99	91	91	91	83	83	83	79
1	104	100	96	92	100	96	92	89	88	85	82	80	78	76	73	72	70	67
2	95	87	81	76	91	84	78	73	77	72	68	70	67	64	65	62	59	56
3	87	77	69	63	83	74	67	61	68	62	57	62	58	54	57	54	50	47
4	79	68	60	53	76	65	58	52	60	54	49	56	50	46	51	47	43	41
5	73	61	52	46	70	58	51	45	54	47	42	50	44	40	46	41	38	35
6	67	55	46	40	64	53	45	39	49	42	37	45	39	35	42	37	33	31
7	62	50	41	35	59	48	40	34	44	38	33	41	35	31	38	33	30	27
8	58	45	37	31	55	44	36	31	40	34	29	38	32	28	35	30	26	24
9	54	41	33	28	52	40	33	27	37	31	26	35	29	25	32	27	24	22
10	51	38	30	25	48	37	30	25	34	28	24	32	27	23	30	25	22	20

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	11300	11300	11300	11300
5°	11373	11408	11373	8970
10°	11284	11237	11284	8034
15°	11149	10993	11149	9179
20°	10902	10705	10902	9198
25°	10413	10284	10413	9004
30°	9785	9935	9785	8577
35°	8709	9493	8709	8105
40°	7246	8973	7246	7750
45°	6460	8365	6460	7342
50°	6848	7639	6848	6932
55°	6425	6857	6425	6695
60°	6599	5823	6599	6131
65°	5956	4813	5956	5381
70°	4095	3837	4095	4511
75°	3551	2836	3551	3396
80°	2803	1875	2803	2041
85°	1524	991	1524	845

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 20°
 Vertical Angle: 45°
 Luminance: 9922 cd/sqm



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	109.9	2.7
10°-20°	312.1	7.8
20°-30°	482.5	12.1
30°-40°	576.0	14.4
40°-50°	579.4	14.5
50°-60°	504.1	12.6
60°-70°	357.4	8.9
70°-80°	189.1	4.7
80°-90°	47.6	1.2
90°-100°	63.4	1.6
100°-110°	166.8	4.2
110°-120°	172.9	4.3
120°-130°	138.7	3.5
130°-140°	108.8	2.7
140°-150°	83.5	2.1
150°-160°	60.2	1.5
160°-170°	36.8	0.9
170°-180°	12.4	0.3
0°-30°	904.5	22.6
0°-40°	1480.5	37.0
0°-60°	2564.0	64.1
0°-90°	3158.1	78.9
90°-120°	403.2	10.1
90°-150°	734.2	18.3
90°-180°	844.0	21.1
0°-180°	4001.7	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1218	1218	1218	1218	1218	
5°	1224	1262	1224	992	1224	116
15°	1168	1250	1168	1044	1168	329
25°	1029	1166	1029	1021	1029	472
35°	782	1040	782	888	782	484
45°	505	857	505	752	505	404
55°	411	633	411	618	411	378
65°	286	381	286	426	286	273
75°	108	181	108	217	108	114
85°	18	46	18	39	18	25
90°	1	3	1	3	1	2
95°	8	38	8	38	8	9
105°	30	261	30	261	30	32
115°	53	336	53	336	53	53
125°	74	268	74	268	74	66
135°	88	208	88	208	88	68
145°	103	169	103	169	103	64
155°	116	145	116	145	116	53
165°	125	135	125	135	125	35
175°	130	131	130	131	130	12
180°	130	130	130	130	130	



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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1228.2	1228.2	1235.1	1237.4	1237.4	1233.9	1230.5	1233.9	1244.3	1247.8	1246.7
5°	1223.6	1232.8	1245.5	1247.8	1250.1	1248.9	1246.7	1248.9	1260.4	1262.8	1263.9
7.5°	1214.4	1231.7	1247.8	1251.3	1254.7	1251.3	1250.1	1252.4	1263.9	1266.2	1266.2
10°	1202.9	1227.0	1245.5	1247.8	1251.3	1247.8	1247.8	1252.4	1263.9	1266.2	1267.4
12.5°	1186.8	1220.1	1237.4	1239.8	1244.3	1243.2	1242.0	1246.7	1258.2	1260.4	1260.4
15°	1168.3	1207.5	1223.6	1225.9	1233.9	1231.7	1231.7	1236.3	1248.9	1252.4	1251.3
17.5°	1143.0	1191.4	1209.8	1213.3	1219.0	1217.8	1219.0	1223.6	1235.1	1237.4	1238.5
20°	1114.1	1169.5	1191.4	1194.8	1200.5	1200.5	1200.5	1206.3	1217.8	1222.4	1222.4
22.5°	1075.0	1146.4	1169.5	1171.8	1178.6	1178.6	1181.0	1189.0	1199.4	1200.5	1200.5
25°	1028.9	1121.1	1140.6	1147.6	1154.5	1157.9	1161.4	1166.0	1169.5	1168.3	1169.5
27.5°	980.5	1088.8	1114.1	1118.7	1128.0	1131.5	1136.0	1137.2	1138.4	1141.8	1139.5
30°	926.4	1043.8	1081.8	1086.5	1101.5	1103.7	1099.2	1101.5	1107.2	1109.6	1111.8
32.5°	865.2	977.0	1048.4	1058.8	1072.7	1065.7	1064.6	1068.1	1077.3	1077.3	1079.6
35°	782.3	925.2	1017.4	1026.6	1036.9	1028.9	1033.4	1034.7	1040.4	1043.8	1042.7
37.5°	691.3	880.2	985.1	992.0	1000.0	989.7	996.6	1000.0	1004.7	1002.4	1002.4
40°	610.7	809.9	947.1	951.7	958.6	950.5	957.4	959.8	962.0	959.8	958.6
42.5°	550.8	732.8	906.7	912.5	907.9	913.6	916.0	920.6	917.1	912.5	912.5
45°	504.6	712.0	863.0	869.9	863.0	872.2	875.6	875.6	865.2	863.0	861.8
47.5°	489.6	670.6	819.2	819.2	815.7	827.2	833.1	824.9	814.6	811.2	811.2
50°	488.5	624.5	759.3	754.7	770.8	784.7	778.9	770.8	762.8	750.0	750.0
52.5°	443.6	568.0	682.1	699.4	724.7	732.8	723.5	715.5	701.6	695.9	691.3
55°	411.3	509.3	611.8	646.4	672.9	683.2	666.0	657.9	637.1	633.7	631.4
57.5°	404.4	424.0	547.3	591.1	623.3	622.2	611.8	596.8	579.6	576.1	574.9
60°	371.0	306.4	478.1	530.0	563.4	559.9	550.8	536.9	520.8	518.5	516.2
62.5°	336.4	222.4	399.8	458.6	505.8	504.6	496.6	475.9	464.4	458.6	454.0
65°	285.8	186.6	284.5	381.3	449.4	451.6	434.4	419.4	406.7	399.8	398.6
67.5°	217.7	152.1	192.4	318.0	395.2	392.9	371.0	364.1	347.9	344.5	337.6
70°	161.3	101.4	133.7	258.1	342.2	336.4	319.2	311.1	296.1	288.0	283.4
72.5°	133.7	81.8	97.9	200.5	288.0	281.1	266.1	256.9	244.3	237.4	232.7
75°	108.3	86.4	74.9	148.6	233.9	229.3	215.5	206.2	195.9	186.6	187.8
77.5°	79.5	80.7	59.9	109.4	185.5	178.6	170.5	159.0	154.4	145.2	145.2
80°	59.9	63.4	44.9	74.9	133.7	133.7	126.7	118.7	110.6	106.0	106.0
82.5°	40.3	40.3	33.4	47.3	91.0	87.6	82.9	80.7	76.0	73.8	73.8
85°	18.4	23.0	20.8	28.8	49.5	51.9	51.9	49.5	48.4	46.0	47.3
87.5°	5.8	10.4	12.6	16.1	25.4	26.5	27.6	27.6	27.6	28.8	28.8
90°	0.9	1.6	2.3	2.4	3.8	5.7	6.6	5.9	4.4	3.3	3.3
92.5°	3.5	9.4	15.3	16.8	23.7	32.9	37.4	32.8	23.5	16.6	15.9
95°	8.4	19.3	30.2	32.9	58.3	92.3	109.3	97.5	73.9	56.3	54.3
97.5°	14.5	24.1	33.7	36.1	78.6	135.2	163.5	156.1	141.2	130.0	126.2
100°	19.2	27.9	36.6	38.8	85.9	148.8	180.2	180.7	181.8	182.6	178.1
102.5°	23.2	31.3	39.5	41.5	89.3	153.0	184.9	194.4	213.3	227.5	223.6
105°	30.1	37.0	43.8	45.5	91.8	153.5	184.3	205.6	248.1	279.9	277.8
107.5°	37.1	43.4	49.9	51.5	92.3	146.7	173.9	203.5	262.7	307.2	307.7
110°	41.8	47.5	53.3	54.8	91.6	140.7	165.2	198.3	264.5	314.2	316.4



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	46.4	51.9	57.4	58.8	91.6	135.3	157.2	191.1	258.9	309.7	313.1
115°	53.4	58.4	63.5	64.8	92.4	129.3	147.7	180.3	245.7	294.6	299.2
117.5°	60.3	64.9	69.5	70.6	94.2	125.5	141.2	170.7	229.5	273.7	278.9
120°	64.3	68.6	73.0	74.0	95.5	124.2	138.5	165.4	219.3	259.7	264.7
122.5°	68.2	72.6	76.9	78.0	97.5	123.5	136.5	160.7	209.2	245.6	250.4
125°	74.2	78.2	82.2	83.3	100.3	123.0	134.3	154.9	196.1	227.0	231.5
127.5°	79.1	83.2	87.2	88.2	103.0	122.6	132.5	150.2	185.6	212.1	215.9
130°	81.7	86.1	90.4	91.6	105.0	122.9	131.8	147.5	179.0	202.7	206.1
132.5°	84.5	88.9	93.2	94.3	106.6	123.0	131.2	145.3	173.4	194.6	197.8
135°	88.5	92.4	96.4	97.4	108.3	122.9	130.1	141.9	165.5	183.2	185.9
137.5°	92.6	96.5	100.5	101.4	110.9	123.6	129.9	139.9	159.8	174.8	177.1
140°	96.0	99.6	103.2	104.1	112.5	123.7	129.3	138.0	155.2	168.1	170.2
142.5°	98.6	101.9	105.3	106.1	113.9	124.2	129.3	136.9	152.1	163.4	165.3
145°	102.6	105.5	108.5	109.2	115.6	124.2	128.5	134.6	147.0	156.4	157.8
147.5°	106.6	109.4	112.3	113.0	118.2	125.0	128.5	133.3	143.1	150.4	151.6
150°	109.3	111.8	114.4	115.0	119.5	125.5	128.5	132.5	140.8	147.0	147.9
152.5°	112.0	113.9	115.8	116.3	120.3	125.7	128.5	131.9	139.0	144.3	145.0
155°	116.0	117.4	118.9	119.2	122.3	126.4	128.5	131.2	136.9	141.1	141.5
157.5°	118.9	120.3	121.7	122.1	124.2	127.1	128.5	130.6	135.0	138.2	138.6
160°	121.0	122.0	123.1	123.4	125.0	127.3	128.5	130.3	134.0	136.8	137.0
162.5°	123.0	123.7	124.6	124.8	126.0	127.7	128.5	130.0	133.2	135.5	135.7
165°	125.1	125.8	126.6	126.8	127.3	128.1	128.5	129.6	131.9	133.5	133.7
167.5°	127.1	127.5	127.8	127.9	128.4	129.0	129.3	130.0	131.5	132.6	132.7
170°	128.5	128.8	129.1	129.2	129.2	129.3	129.3	130.0	131.5	132.6	132.6
172.5°	129.1	129.2	129.3	129.3	129.3	129.3	129.3	129.9	131.1	131.9	131.9
175°	130.1	130.1	130.1	130.1	129.8	129.5	129.3	129.7	130.5	131.0	131.0
177.5°	130.1	130.1	130.1	130.1	129.9	129.7	129.5	129.8	130.4	130.8	130.7
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



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CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1248.9	1245.5	1248.9	1246.7	1247.8	1244.3	1233.9	1230.5	1233.9	1237.4	1237.4
5°	1263.9	1261.7	1263.9	1263.9	1262.8	1260.4	1248.9	1246.7	1248.9	1250.1	1247.8
7.5°	1268.5	1265.1	1268.5	1266.2	1266.2	1263.9	1252.4	1250.1	1251.3	1254.7	1251.3
10°	1268.5	1265.1	1268.5	1267.4	1266.2	1263.9	1252.4	1247.8	1247.8	1251.3	1247.8
12.5°	1262.8	1260.4	1262.8	1260.4	1260.4	1258.2	1246.7	1242.0	1243.2	1244.3	1239.8
15°	1253.5	1250.1	1253.5	1251.3	1252.4	1248.9	1236.3	1231.7	1231.7	1233.9	1225.9
17.5°	1239.8	1235.1	1239.8	1238.5	1237.4	1235.1	1223.6	1219.0	1217.8	1219.0	1213.3
20°	1223.6	1220.1	1223.6	1222.4	1222.4	1217.8	1206.3	1200.5	1200.5	1200.5	1194.8
22.5°	1198.3	1194.8	1198.3	1200.5	1200.5	1199.4	1189.0	1181.0	1178.6	1178.6	1171.8
25°	1169.5	1166.0	1169.5	1169.5	1168.3	1169.5	1166.0	1161.4	1157.9	1154.5	1147.6
27.5°	1141.8	1139.5	1141.8	1139.5	1141.8	1138.4	1137.2	1136.0	1131.5	1128.0	1118.7
30°	1114.1	1111.8	1114.1	1111.8	1109.6	1107.2	1101.5	1099.2	1103.7	1101.5	1086.5
32.5°	1079.6	1077.3	1079.6	1079.6	1077.3	1077.3	1068.1	1064.6	1065.7	1072.7	1058.8
35°	1043.8	1040.4	1043.8	1042.7	1043.8	1040.4	1034.7	1033.4	1028.9	1036.9	1026.6
37.5°	1002.4	998.9	1002.4	1002.4	1002.4	1004.7	1000.0	996.6	989.7	1000.0	992.0
40°	959.8	955.1	959.8	958.6	959.8	962.0	959.8	957.4	950.5	958.6	951.7
42.5°	911.4	910.2	911.4	912.5	912.5	917.1	920.6	916.0	913.6	907.9	912.5
45°	859.5	857.2	859.5	861.8	863.0	865.2	875.6	875.6	872.2	863.0	869.9
47.5°	804.2	798.4	804.2	811.2	811.2	814.6	824.9	833.1	827.2	815.7	819.2
50°	745.4	746.6	745.4	750.0	750.0	762.8	770.8	778.9	784.7	770.8	754.7
52.5°	687.9	686.7	687.9	691.3	695.9	701.6	715.5	723.5	732.8	724.7	699.4
55°	630.2	632.6	630.2	631.4	633.7	637.1	657.9	666.0	683.2	672.9	646.4
57.5°	572.7	569.2	572.7	574.9	576.1	579.6	596.8	611.8	622.2	623.3	591.1
60°	505.8	501.2	505.8	516.2	518.5	520.8	536.9	550.8	559.9	563.4	530.0
62.5°	447.0	439.0	447.0	454.0	458.6	464.4	475.9	496.6	504.6	505.8	458.6
65°	384.8	381.3	384.8	398.6	399.8	406.7	419.4	434.4	451.6	449.4	381.3
67.5°	328.4	328.4	328.4	337.6	344.5	347.9	364.1	371.0	392.9	395.2	318.0
70°	276.5	275.4	276.5	283.4	288.0	296.1	311.1	319.2	336.4	342.2	258.1
72.5°	227.0	225.9	227.0	232.7	237.4	244.3	256.9	266.1	281.1	288.0	200.5
75°	183.2	180.9	183.2	187.8	186.6	195.9	206.2	215.5	229.3	233.9	148.6
77.5°	140.6	140.6	140.6	145.2	145.2	154.4	159.0	170.5	178.6	185.5	109.4
80°	104.8	103.7	104.8	106.0	106.0	110.6	118.7	126.7	133.7	133.7	74.9
82.5°	73.8	71.4	73.8	73.8	73.8	76.0	80.7	82.9	87.6	91.0	47.3
85°	46.0	46.0	46.0	47.3	46.0	48.4	49.5	51.9	51.9	49.5	28.8
87.5°	30.0	28.8	30.0	28.8	28.8	27.6	27.6	27.6	26.5	25.4	16.1
90°	3.3	3.3	3.3	3.3	3.3	4.4	5.9	6.6	5.7	3.8	2.4
92.5°	13.3	10.6	13.3	15.9	16.6	23.5	32.8	37.4	32.9	23.7	16.8
95°	46.4	38.4	46.4	54.3	56.3	73.9	97.5	109.3	92.3	58.3	32.9
97.5°	111.0	95.8	111.0	126.2	130.0	141.2	156.1	163.5	135.2	78.6	36.1
100°	160.0	141.9	160.0	178.1	182.6	181.8	180.7	180.2	148.8	85.9	38.8
102.5°	208.1	192.5	208.1	223.6	227.5	213.3	194.4	184.9	153.0	89.3	41.5
105°	269.5	261.2	269.5	277.8	279.9	248.1	205.6	184.3	153.5	91.8	45.5
107.5°	309.7	311.8	309.7	307.7	307.2	262.7	203.5	173.9	146.7	92.3	51.5
110°	325.0	333.7	325.0	316.4	314.2	264.5	198.3	165.2	140.7	91.6	54.8



TEST NUMBER: P934032

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	326.4	339.7	326.4	313.1	309.7	258.9	191.1	157.2	135.3	91.6	58.8
115°	317.8	336.3	317.8	299.2	294.6	245.7	180.3	147.7	129.3	92.4	64.8
117.5°	299.4	319.9	299.4	278.9	273.7	229.5	170.7	141.2	125.5	94.2	70.6
120°	284.6	304.5	284.6	264.7	259.7	219.3	165.4	138.5	124.2	95.5	74.0
122.5°	270.2	289.9	270.2	250.4	245.6	209.2	160.7	136.5	123.5	97.5	78.0
125°	249.7	267.8	249.7	231.5	227.0	196.1	154.9	134.3	123.0	100.3	83.3
127.5°	231.2	246.4	231.2	215.9	212.1	185.6	150.2	132.5	122.6	103.0	88.2
130°	220.3	234.4	220.3	206.1	202.7	179.0	147.5	131.8	122.9	105.0	91.6
132.5°	210.4	223.1	210.4	197.8	194.6	173.4	145.3	131.2	123.0	106.6	94.3
135°	196.9	207.8	196.9	185.9	183.2	165.5	141.9	130.1	122.9	108.3	97.4
137.5°	186.0	195.0	186.0	177.1	174.8	159.8	139.9	129.9	123.6	110.9	101.4
140°	178.5	186.9	178.5	170.2	168.1	155.2	138.0	129.3	123.7	112.5	104.1
142.5°	172.4	179.6	172.4	165.3	163.4	152.1	136.9	129.3	124.2	113.9	106.1
145°	163.2	168.6	163.2	157.8	156.4	147.0	134.6	128.5	124.2	115.6	109.2
147.5°	156.0	160.5	156.0	151.6	150.4	143.1	133.3	128.5	125.0	118.2	113.0
150°	151.6	155.2	151.6	147.9	147.0	140.8	132.5	128.5	125.5	119.5	115.0
152.5°	147.7	150.5	147.7	145.0	144.3	139.0	131.9	128.5	125.7	120.3	116.3
155°	143.4	145.2	143.4	141.5	141.1	136.9	131.2	128.5	126.4	122.3	119.2
157.5°	139.9	141.2	139.9	138.6	138.2	135.0	130.6	128.5	127.1	124.2	122.1
160°	137.8	138.5	137.8	137.0	136.8	134.0	130.3	128.5	127.3	125.0	123.4
162.5°	136.4	137.1	136.4	135.7	135.5	133.2	130.0	128.5	127.7	126.0	124.8
165°	134.5	135.2	134.5	133.7	133.5	131.9	129.6	128.5	128.1	127.3	126.8
167.5°	133.0	133.3	133.0	132.7	132.6	131.5	130.0	129.3	129.0	128.4	127.9
170°	132.6	132.6	132.6	132.6	132.6	131.5	130.0	129.3	129.3	129.2	129.2
172.5°	131.6	131.3	131.6	131.9	131.9	131.1	129.9	129.3	129.3	129.3	129.3
175°	131.0	131.0	131.0	131.0	131.0	130.5	129.7	129.3	129.5	129.8	130.1
177.5°	130.5	130.1	130.5	130.7	130.8	130.4	129.8	129.5	129.7	129.9	130.1
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



TEST NUMBER: P934032

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1235.1	1228.2	1228.2	1216.7	1212.0	1208.6	1202.9	1185.6	1181.0	1176.4	1183.3
5°	1245.5	1232.8	1223.6	1202.9	1185.6	1178.6	1156.8	1115.3	1087.6	1066.9	1055.4
7.5°	1247.8	1231.7	1214.4	1182.1	1140.6	1122.2	1055.4	979.4	958.6	940.1	928.6
10°	1245.5	1227.0	1202.9	1154.5	1056.6	1024.3	957.4	907.9	895.2	891.7	895.2
12.5°	1237.4	1220.1	1186.8	1106.1	969.0	947.1	907.9	879.1	876.8	882.6	913.6
15°	1223.6	1207.5	1168.3	1041.6	920.6	904.5	876.8	866.5	879.1	919.4	1012.8
17.5°	1209.8	1191.4	1143.0	978.2	883.7	872.2	852.6	873.3	944.8	998.9	1030.0
20°	1191.4	1169.5	1114.1	932.1	857.2	846.8	837.6	931.0	985.1	1004.7	1021.9
22.5°	1169.5	1146.4	1075.0	899.9	829.6	821.5	827.2	963.2	985.1	998.9	1013.9
25°	1140.6	1121.1	1028.9	874.5	807.7	798.4	820.3	959.8	972.4	975.9	1005.8
27.5°	1114.1	1088.8	980.5	851.5	781.2	777.7	826.1	944.8	954.0	957.4	989.7
30°	1081.8	1043.8	926.4	827.2	753.5	752.4	827.2	926.4	924.0	933.3	965.5
32.5°	1048.4	977.0	865.2	797.3	727.0	725.9	819.2	898.7	896.4	909.1	933.3
35°	1017.4	925.2	782.3	762.8	693.6	694.7	799.6	866.5	867.6	879.1	894.1
37.5°	985.1	880.2	691.3	724.7	661.4	661.4	773.1	836.5	834.2	837.6	858.3
40°	947.1	809.9	610.7	675.1	631.4	628.0	740.9	804.2	796.2	795.0	823.8
42.5°	906.7	732.8	550.8	609.5	596.8	592.2	701.6	765.0	750.0	753.5	790.4
45°	863.0	712.0	504.6	515.0	561.1	557.7	659.0	720.1	709.7	719.0	757.0
47.5°	819.2	670.6	489.6	427.5	523.0	521.9	611.8	676.3	670.6	679.8	720.1
50°	759.3	624.5	488.5	366.4	480.5	485.0	555.3	633.7	633.7	641.7	684.4
52.5°	682.1	568.0	443.6	331.8	430.9	444.7	505.8	596.8	599.1	607.2	645.2
55°	611.8	509.3	411.3	305.3	372.2	402.1	457.4	558.8	563.4	571.4	606.1
57.5°	547.3	424.0	404.4	274.3	318.0	346.8	414.7	521.9	524.3	531.2	564.6
60°	478.1	306.4	371.0	240.8	270.8	292.7	375.6	478.1	486.2	490.8	519.6
62.5°	399.8	222.4	336.4	217.7	247.7	252.4	343.3	436.6	447.0	450.5	467.8
65°	284.5	186.6	285.8	198.2	223.5	224.6	308.8	394.1	403.2	409.0	421.7
67.5°	192.4	152.1	217.7	179.7	205.1	206.2	275.4	344.5	357.2	361.8	369.8
70°	133.7	101.4	161.3	160.2	184.3	186.6	239.6	299.5	311.1	314.5	319.2
72.5°	97.9	81.8	133.7	144.1	162.5	164.7	202.7	248.9	260.4	263.9	266.1
75°	74.9	86.4	108.3	125.6	138.2	139.4	165.9	202.7	210.9	213.1	214.3
77.5°	59.9	80.7	79.5	101.4	112.9	110.6	130.2	156.7	163.6	163.6	163.6
80°	44.9	63.4	59.9	72.6	82.9	80.7	93.3	111.8	114.1	116.3	115.2
82.5°	33.4	40.3	40.3	46.0	55.3	53.0	62.2	72.6	72.6	72.6	74.9
85°	20.8	23.0	18.4	24.2	31.1	30.0	34.5	39.2	40.3	40.3	38.0
87.5°	12.6	10.4	5.8	9.2	13.9	13.9	16.1	17.3	16.1	16.1	16.1
90°	2.3	1.6	0.9	1.6	2.3	2.4	3.8	5.7	6.6	5.9	4.4
92.5°	15.3	9.4	3.5	9.4	15.3	16.8	23.7	32.9	37.4	32.8	23.5
95°	30.2	19.3	8.4	19.3	30.2	32.9	58.3	92.3	109.3	97.5	73.9
97.5°	33.7	24.1	14.5	24.1	33.7	36.1	78.6	135.2	163.5	156.1	141.2
100°	36.6	27.9	19.2	27.9	36.6	38.8	85.9	148.8	180.2	180.7	181.8
102.5°	39.5	31.3	23.2	31.3	39.5	41.5	89.3	153.0	184.9	194.4	213.3
105°	43.8	37.0	30.1	37.0	43.8	45.5	91.8	153.5	184.3	205.6	248.1
107.5°	49.9	43.4	37.1	43.4	49.9	51.5	92.3	146.7	173.9	203.5	262.7
110°	53.3	47.5	41.8	47.5	53.3	54.8	91.6	140.7	165.2	198.3	264.5



TEST NUMBER: P934032

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	57.4	51.9	46.4	51.9	57.4	58.8	91.6	135.3	157.2	191.1	258.9
115°	63.5	58.4	53.4	58.4	63.5	64.8	92.4	129.3	147.7	180.3	245.7
117.5°	69.5	64.9	60.3	64.9	69.5	70.6	94.2	125.5	141.2	170.7	229.5
120°	73.0	68.6	64.3	68.6	73.0	74.0	95.5	124.2	138.5	165.4	219.3
122.5°	76.9	72.6	68.2	72.6	76.9	78.0	97.5	123.5	136.5	160.7	209.2
125°	82.2	78.2	74.2	78.2	82.2	83.3	100.3	123.0	134.3	154.9	196.1
127.5°	87.2	83.2	79.1	83.2	87.2	88.2	103.0	122.6	132.5	150.2	185.6
130°	90.4	86.1	81.7	86.1	90.4	91.6	105.0	122.9	131.8	147.5	179.0
132.5°	93.2	88.9	84.5	88.9	93.2	94.3	106.6	123.0	131.2	145.3	173.4
135°	96.4	92.4	88.5	92.4	96.4	97.4	108.3	122.9	130.1	141.9	165.5
137.5°	100.5	96.5	92.6	96.5	100.5	101.4	110.9	123.6	129.9	139.9	159.8
140°	103.2	99.6	96.0	99.6	103.2	104.1	112.5	123.7	129.3	138.0	155.2
142.5°	105.3	101.9	98.6	101.9	105.3	106.1	113.9	124.2	129.3	136.9	152.1
145°	108.5	105.5	102.6	105.5	108.5	109.2	115.6	124.2	128.5	134.6	147.0
147.5°	112.3	109.4	106.6	109.4	112.3	113.0	118.2	125.0	128.5	133.3	143.1
150°	114.4	111.8	109.3	111.8	114.4	115.0	119.5	125.5	128.5	132.5	140.8
152.5°	115.8	113.9	112.0	113.9	115.8	116.3	120.3	125.7	128.5	131.9	139.0
155°	118.9	117.4	116.0	117.4	118.9	119.2	122.3	126.4	128.5	131.2	136.9
157.5°	121.7	120.3	118.9	120.3	121.7	122.1	124.2	127.1	128.5	130.6	135.0
160°	123.1	122.0	121.0	122.0	123.1	123.4	125.0	127.3	128.5	130.3	134.0
162.5°	124.6	123.7	123.0	123.7	124.6	124.8	126.0	127.7	128.5	130.0	133.2
165°	126.6	125.8	125.1	125.8	126.6	126.8	127.3	128.1	128.5	129.6	131.9
167.5°	127.8	127.5	127.1	127.5	127.8	127.9	128.4	129.0	129.3	130.0	131.5
170°	129.1	128.8	128.5	128.8	129.1	129.2	129.2	129.3	129.3	130.0	131.5
172.5°	129.3	129.2	129.1	129.2	129.3	129.3	129.3	129.3	129.3	129.9	131.1
175°	130.1	130.1	130.1	130.1	130.1	130.1	129.8	129.5	129.3	129.7	130.5
177.5°	130.1	130.1	130.1	130.1	130.1	130.1	129.9	129.7	129.5	129.8	130.4
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



TEST NUMBER: P934032

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1175.2	1171.8	1176.4	1163.6	1176.4	1171.8	1175.2	1183.3	1176.4	1181.0	1185.6
5°	1031.2	1025.4	1007.0	992.0	1007.0	1025.4	1031.2	1055.4	1066.9	1087.6	1115.3
7.5°	921.7	917.1	912.5	903.3	912.5	917.1	921.7	928.6	940.1	958.6	979.4
10°	897.5	898.7	905.6	904.5	905.6	898.7	897.5	895.2	891.7	895.2	907.9
12.5°	959.8	970.1	1008.2	1005.8	1008.2	970.1	959.8	913.6	882.6	876.8	879.1
15°	1031.2	1034.7	1042.7	1043.8	1042.7	1034.7	1031.2	1012.8	919.4	879.1	866.5
17.5°	1038.1	1039.3	1045.0	1045.0	1045.0	1039.3	1038.1	1030.0	998.9	944.8	873.3
20°	1032.3	1034.7	1046.2	1048.4	1046.2	1034.7	1032.3	1021.9	1004.7	985.1	931.0
22.5°	1030.0	1034.7	1043.8	1042.7	1043.8	1034.7	1030.0	1013.9	998.9	985.1	963.2
25°	1018.5	1018.5	1019.7	1020.8	1019.7	1018.5	1018.5	1005.8	975.9	972.4	959.8
27.5°	994.3	996.6	1003.5	1002.4	1003.5	996.6	994.3	989.7	957.4	954.0	944.8
30°	972.4	970.1	964.4	959.8	964.4	970.1	972.4	965.5	933.3	924.0	926.4
32.5°	935.5	929.8	924.0	920.6	924.0	929.8	935.5	933.3	909.1	896.4	898.7
35°	891.7	893.0	891.7	888.3	891.7	893.0	891.7	894.1	879.1	867.6	866.5
37.5°	860.7	863.0	861.8	857.2	861.8	863.0	860.7	858.3	837.6	834.2	836.5
40°	828.4	829.6	828.4	824.9	828.4	829.6	828.4	823.8	795.0	796.2	804.2
42.5°	797.3	796.2	792.7	790.4	792.7	796.2	797.3	790.4	753.5	750.0	765.0
45°	761.5	762.8	755.8	752.4	755.8	762.8	761.5	757.0	719.0	709.7	720.1
47.5°	725.9	725.9	720.1	716.6	720.1	725.9	725.9	720.1	679.8	670.6	676.3
50°	687.9	686.7	678.6	677.5	678.6	686.7	687.9	684.4	641.7	633.7	633.7
52.5°	644.1	644.1	645.2	647.5	645.2	644.1	644.1	645.2	607.2	599.1	596.8
55°	606.1	607.2	615.2	617.6	615.2	607.2	606.1	606.1	571.4	563.4	558.8
57.5°	566.8	566.8	572.7	572.7	572.7	566.8	566.8	564.6	531.2	524.3	521.9
60°	521.9	524.3	528.8	527.7	528.8	524.3	521.9	519.6	490.8	486.2	478.1
62.5°	474.6	477.0	478.1	475.9	478.1	477.0	474.6	467.8	450.5	447.0	436.6
65°	425.1	427.5	428.6	426.3	428.6	427.5	425.1	421.7	409.0	403.2	394.1
67.5°	374.5	373.3	372.2	376.7	372.2	373.3	374.5	369.8	361.8	357.2	344.5
70°	322.6	322.6	321.4	323.8	321.4	322.6	322.6	319.2	314.5	311.1	299.5
72.5°	267.3	266.1	270.8	267.3	270.8	266.1	267.3	266.1	263.9	260.4	248.9
75°	213.1	215.5	213.1	216.6	213.1	215.5	213.1	214.3	213.1	210.9	202.7
77.5°	162.5	164.7	162.5	162.5	162.5	164.7	162.5	163.6	163.6	163.6	156.7
80°	115.2	114.1	114.1	112.9	114.1	114.1	115.2	115.2	116.3	114.1	111.8
82.5°	73.8	72.6	72.6	74.9	72.6	72.6	73.8	74.9	72.6	72.6	72.6
85°	40.3	41.5	39.2	39.2	39.2	41.5	40.3	38.0	40.3	40.3	39.2
87.5°	15.0	13.9	13.9	13.9	13.9	13.9	15.0	16.1	16.1	16.1	17.3
90°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	4.4	5.9	6.6	5.7
92.5°	16.6	15.9	13.3	10.6	13.3	15.9	16.6	23.5	32.8	37.4	32.9
95°	56.3	54.3	46.4	38.4	46.4	54.3	56.3	73.9	97.5	109.3	92.3
97.5°	130.0	126.2	111.0	95.8	111.0	126.2	130.0	141.2	156.1	163.5	135.2
100°	182.6	178.1	160.0	141.9	160.0	178.1	182.6	181.8	180.7	180.2	148.8
102.5°	227.5	223.6	208.1	192.5	208.1	223.6	227.5	213.3	194.4	184.9	153.0
105°	279.9	277.8	269.5	261.2	269.5	277.8	279.9	248.1	205.6	184.3	153.5
107.5°	307.2	307.7	309.7	311.8	309.7	307.7	307.2	262.7	203.5	173.9	146.7
110°	314.2	316.4	325.0	333.7	325.0	316.4	314.2	264.5	198.3	165.2	140.7



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CANDELA DISTRIBUTION (continued):

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	309.7	313.1	326.4	339.7	326.4	313.1	309.7	258.9	191.1	157.2	135.3
115°	294.6	299.2	317.8	336.3	317.8	299.2	294.6	245.7	180.3	147.7	129.3
117.5°	273.7	278.9	299.4	319.9	299.4	278.9	273.7	229.5	170.7	141.2	125.5
120°	259.7	264.7	284.6	304.5	284.6	264.7	259.7	219.3	165.4	138.5	124.2
122.5°	245.6	250.4	270.2	289.9	270.2	250.4	245.6	209.2	160.7	136.5	123.5
125°	227.0	231.5	249.7	267.8	249.7	231.5	227.0	196.1	154.9	134.3	123.0
127.5°	212.1	215.9	231.2	246.4	231.2	215.9	212.1	185.6	150.2	132.5	122.6
130°	202.7	206.1	220.3	234.4	220.3	206.1	202.7	179.0	147.5	131.8	122.9
132.5°	194.6	197.8	210.4	223.1	210.4	197.8	194.6	173.4	145.3	131.2	123.0
135°	183.2	185.9	196.9	207.8	196.9	185.9	183.2	165.5	141.9	130.1	122.9
137.5°	174.8	177.1	186.0	195.0	186.0	177.1	174.8	159.8	139.9	129.9	123.6
140°	168.1	170.2	178.5	186.9	178.5	170.2	168.1	155.2	138.0	129.3	123.7
142.5°	163.4	165.3	172.4	179.6	172.4	165.3	163.4	152.1	136.9	129.3	124.2
145°	156.4	157.8	163.2	168.6	163.2	157.8	156.4	147.0	134.6	128.5	124.2
147.5°	150.4	151.6	156.0	160.5	156.0	151.6	150.4	143.1	133.3	128.5	125.0
150°	147.0	147.9	151.6	155.2	151.6	147.9	147.0	140.8	132.5	128.5	125.5
152.5°	144.3	145.0	147.7	150.5	147.7	145.0	144.3	139.0	131.9	128.5	125.7
155°	141.1	141.5	143.4	145.2	143.4	141.5	141.1	136.9	131.2	128.5	126.4
157.5°	138.2	138.6	139.9	141.2	139.9	138.6	138.2	135.0	130.6	128.5	127.1
160°	136.8	137.0	137.8	138.5	137.8	137.0	136.8	134.0	130.3	128.5	127.3
162.5°	135.5	135.7	136.4	137.1	136.4	135.7	135.5	133.2	130.0	128.5	127.7
165°	133.5	133.7	134.5	135.2	134.5	133.7	133.5	131.9	129.6	128.5	128.1
167.5°	132.6	132.7	133.0	133.3	133.0	132.7	132.6	131.5	130.0	129.3	129.0
170°	132.6	132.6	132.6	132.6	132.6	132.6	132.6	131.5	130.0	129.3	129.3
172.5°	131.9	131.9	131.6	131.3	131.6	131.9	131.9	131.1	129.9	129.3	129.3
175°	131.0	131.0	131.0	131.0	131.0	131.0	131.0	130.5	129.7	129.3	129.5
177.5°	130.8	130.7	130.5	130.1	130.5	130.7	130.8	130.4	129.8	129.5	129.7
180°	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1	130.1



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CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
0°	1217.8	1217.8	1217.8	1217.8	1217.8
2.5°	1202.9	1208.6	1212.0	1216.7	1228.2
5°	1156.8	1178.6	1185.6	1202.9	1223.6
7.5°	1055.4	1122.2	1140.6	1182.1	1214.4
10°	957.4	1024.3	1056.6	1154.5	1202.9
12.5°	907.9	947.1	969.0	1106.1	1186.8
15°	876.8	904.5	920.6	1041.6	1168.3
17.5°	852.6	872.2	883.7	978.2	1143.0
20°	837.6	846.8	857.2	932.1	1114.1
22.5°	827.2	821.5	829.6	899.9	1075.0
25°	820.3	798.4	807.7	874.5	1028.9
27.5°	826.1	777.7	781.2	851.5	980.5
30°	827.2	752.4	753.5	827.2	926.4
32.5°	819.2	725.9	727.0	797.3	865.2
35°	799.6	694.7	693.6	762.8	782.3
37.5°	773.1	661.4	661.4	724.7	691.3
40°	740.9	628.0	631.4	675.1	610.7
42.5°	701.6	592.2	596.8	609.5	550.8
45°	659.0	557.7	561.1	515.0	504.6
47.5°	611.8	521.9	523.0	427.5	489.6
50°	555.3	485.0	480.5	366.4	488.5
52.5°	505.8	444.7	430.9	331.8	443.6
55°	457.4	402.1	372.2	305.3	411.3
57.5°	414.7	346.8	318.0	274.3	404.4
60°	375.6	292.7	270.8	240.8	371.0
62.5°	343.3	252.4	247.7	217.7	336.4
65°	308.8	224.6	223.5	198.2	285.8
67.5°	275.4	206.2	205.1	179.7	217.7
70°	239.6	186.6	184.3	160.2	161.3
72.5°	202.7	164.7	162.5	144.1	133.7
75°	165.9	139.4	138.2	125.6	108.3
77.5°	130.2	110.6	112.9	101.4	79.5
80°	93.3	80.7	82.9	72.6	59.9
82.5°	62.2	53.0	55.3	46.0	40.3
85°	34.5	30.0	31.1	24.2	18.4
87.5°	16.1	13.9	13.9	9.2	5.8
90°	3.8	2.4	2.3	1.6	0.9
92.5°	23.7	16.8	15.3	9.4	3.5
95°	58.3	32.9	30.2	19.3	8.4
97.5°	78.6	36.1	33.7	24.1	14.5
100°	85.9	38.8	36.6	27.9	19.2
102.5°	89.3	41.5	39.5	31.3	23.2
105°	91.8	45.5	43.8	37.0	30.1
107.5°	92.3	51.5	49.9	43.4	37.1
110°	91.6	54.8	53.3	47.5	41.8



TEST NUMBER: P934032

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-3000K

CANDELA DISTRIBUTION (continued):

	330°	337.5°	340°	350°	360°
112.5°	91.6	58.8	57.4	51.9	46.4
115°	92.4	64.8	63.5	58.4	53.4
117.5°	94.2	70.6	69.5	64.9	60.3
120°	95.5	74.0	73.0	68.6	64.3
122.5°	97.5	78.0	76.9	72.6	68.2
125°	100.3	83.3	82.2	78.2	74.2
127.5°	103.0	88.2	87.2	83.2	79.1
130°	105.0	91.6	90.4	86.1	81.7
132.5°	106.6	94.3	93.2	88.9	84.5
135°	108.3	97.4	96.4	92.4	88.5
137.5°	110.9	101.4	100.5	96.5	92.6
140°	112.5	104.1	103.2	99.6	96.0
142.5°	113.9	106.1	105.3	101.9	98.6
145°	115.6	109.2	108.5	105.5	102.6
147.5°	118.2	113.0	112.3	109.4	106.6
150°	119.5	115.0	114.4	111.8	109.3
152.5°	120.3	116.3	115.8	113.9	112.0
155°	122.3	119.2	118.9	117.4	116.0
157.5°	124.2	122.1	121.7	120.3	118.9
160°	125.0	123.4	123.1	122.0	121.0
162.5°	126.0	124.8	124.6	123.7	123.0
165°	127.3	126.8	126.6	125.8	125.1
167.5°	128.4	127.9	127.8	127.5	127.1
170°	129.2	129.2	129.1	128.8	128.5
172.5°	129.3	129.3	129.3	129.2	129.1
175°	129.8	130.1	130.1	130.1	130.1
177.5°	129.9	130.1	130.1	130.1	130.1
180°	130.1	130.1	130.1	130.1	130.1



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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	15.55	16.75	16.21	17.43	18.22	18.35	19.55	19.01	20.23	21.01
	3H	16.05	17.13	16.73	17.82	18.64	19.71	20.79	20.39	21.48	22.30
	4H	16.26	17.28	16.96	17.98	18.81	20.16	21.18	20.86	21.88	22.71
	6H	16.40	17.34	17.11	18.05	18.89	20.46	21.40	21.17	22.11	22.95
	8H	16.41	17.30	17.13	18.03	18.88	20.54	21.43	21.26	22.16	23.01
	12H	16.39	17.24	17.12	17.97	18.85	20.58	21.44	21.31	22.16	23.04
4H	2H	16.62	17.63	17.32	18.33	19.17	18.80	19.82	19.50	20.52	21.35
	3H	17.67	18.52	18.39	19.26	20.11	20.33	21.17	21.04	21.91	22.76
	4H	17.97	18.73	18.69	19.47	20.36	20.86	21.63	21.59	22.37	23.25
	6H	18.11	18.78	18.86	19.54	20.43	21.24	21.91	21.99	22.67	23.56
	8H	18.12	18.75	18.87	19.51	20.41	21.35	21.97	22.10	22.73	23.64
	12H	18.11	18.67	18.88	19.45	20.36	21.42	21.98	22.19	22.76	23.67
8H	4H	18.44	19.06	19.19	19.82	20.73	21.02	21.64	21.77	22.40	23.30
	6H	18.72	19.23	19.50	20.04	20.94	21.46	21.97	22.24	22.78	23.68
	8H	18.76	19.22	19.55	20.02	20.95	21.61	22.07	22.40	22.87	23.79
	12H	18.76	19.17	19.56	19.96	20.94	21.72	22.12	22.51	22.91	23.89
12H	4H	18.46	19.02	19.23	19.81	20.71	21.00	21.56	21.77	22.34	23.25
	6H	18.78	19.24	19.57	20.04	20.96	21.46	21.92	22.25	22.72	23.64
	8H	18.86	19.27	19.66	20.06	21.04	21.63	22.04	22.42	22.83	23.81