

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: P934035

Luminaire Tested: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-5000K

Issue Date: 12/17/2024

**Test Information**

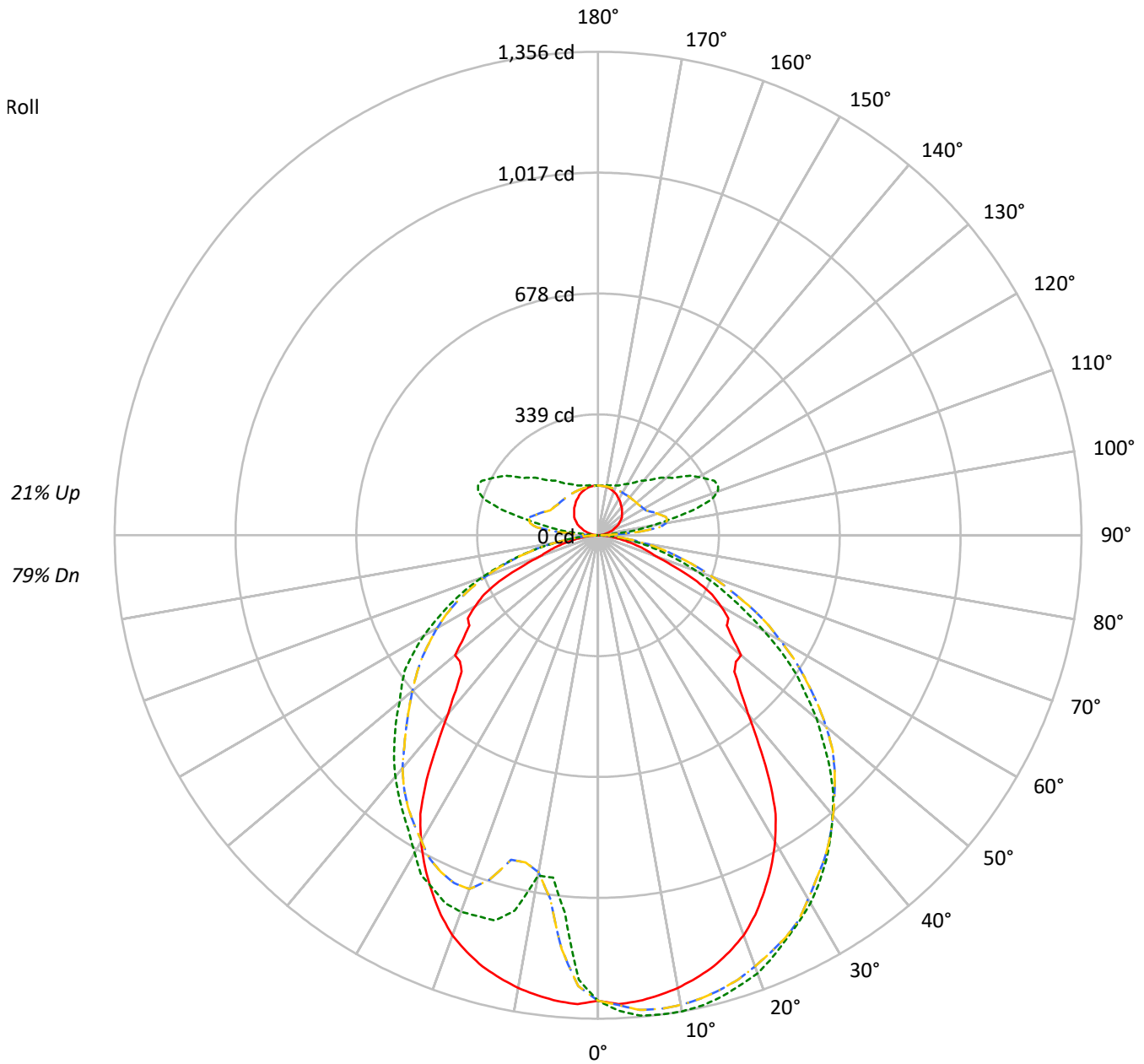
Test Method: LM-79-2019  
Report Number: P934035  
REPORT IS A COMBINATION OF REPORTS P933682 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4289.3 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°	12112	12112	12112	12112
5°	12190	12227	12190	9614
10°	12095	12044	12095	8611
15°	11949	11783	11949	9839
20°	11686	11474	11686	9860
25°	11162	11024	11162	9651
30°	10487	10650	10487	9192
35°	9335	10176	9335	8689
40°	7766	9618	7766	8307
45°	6925	8966	6925	7870
50°	7340	8188	7340	7430
55°	6887	7349	6887	7176
60°	7073	6242	7073	6572
65°	6383	5159	6383	5768
70°	4389	4113	4389	4836
75°	3807	3040	3807	3640
80°	3005	2009	3005	2188
85°	1631	1064	1631	905

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10635 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	117.8	2.7
10°-20°	334.6	7.8
20°-30°	517.2	12.1
30°-40°	617.4	14.4
40°-50°	621.0	14.5
50°-60°	540.3	12.6
60°-70°	383.1	8.9
70°-80°	202.7	4.7
80°-90°	51.0	1.2
90°-100°	68.0	1.6
100°-110°	178.8	4.2
110°-120°	185.4	4.3
120°-130°	148.7	3.5
130°-140°	116.7	2.7
140°-150°	89.5	2.1
150°-160°	64.5	1.5
160°-170°	39.4	0.9
170°-180°	13.3	0.3
0°-30°	969.6	22.6
0°-40°	1586.9	37.0
0°-60°	2748.3	64.1
0°-90°	3385.1	78.9
90°-120°	432.1	10.1
90°-150°	787.0	18.3
90°-180°	904.0	21.1
0°-180°	4289.3	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1305	1305	1305	1305	1305	
5°	1312	1352	1312	1063	1312	124
15°	1252	1340	1252	1119	1252	352
25°	1103	1250	1103	1094	1103	506
35°	838	1115	838	952	838	519
45°	541	919	541	806	541	433
55°	441	678	441	662	441	405
65°	306	409	306	457	306	293
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	181	110	181	110	69
155°	124	156	124	156	124	57
165°	134	145	134	145	134	38
175°	140	140	140	140	140	13
180°	140	140	140	140	140	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1316.4	1316.4	1323.9	1326.3	1326.3	1322.6	1319.0	1322.6	1333.7	1337.5	1336.3
5°	1311.6	1321.4	1335.0	1337.5	1339.9	1338.7	1336.3	1338.7	1351.0	1353.5	1354.8
7.5°	1301.7	1320.2	1337.5	1341.2	1344.9	1341.2	1339.9	1342.4	1354.8	1357.2	1357.2
10°	1289.3	1315.2	1335.0	1337.5	1341.2	1337.5	1337.5	1342.4	1354.8	1357.2	1358.5
12.5°	1272.0	1307.8	1326.3	1328.9	1333.7	1332.5	1331.3	1336.3	1348.6	1351.0	1351.0
15°	1252.2	1294.3	1311.6	1314.0	1322.6	1320.2	1320.2	1325.1	1338.7	1342.4	1341.2
17.5°	1225.1	1277.0	1296.7	1300.5	1306.6	1305.3	1306.6	1311.6	1323.9	1326.3	1327.6
20°	1194.2	1253.5	1277.0	1280.6	1286.8	1286.8	1286.8	1293.0	1305.3	1310.3	1310.3
22.5°	1152.2	1228.8	1253.5	1256.0	1263.3	1263.3	1265.9	1274.5	1285.6	1286.8	1286.8
25°	1102.9	1201.7	1222.6	1230.1	1237.5	1241.1	1244.8	1249.8	1253.5	1252.2	1253.5
27.5°	1051.0	1167.1	1194.2	1199.1	1209.0	1212.8	1217.6	1219.0	1220.2	1223.8	1221.4
30°	992.9	1118.8	1159.6	1164.6	1180.6	1183.1	1178.2	1180.6	1186.8	1189.3	1191.8
32.5°	927.4	1047.2	1123.8	1134.9	1149.8	1142.3	1141.1	1144.8	1154.7	1154.7	1157.2
35°	838.5	991.7	1090.5	1100.3	1111.5	1102.9	1107.7	1109.0	1115.2	1118.8	1117.6
37.5°	740.9	943.5	1055.9	1063.3	1071.9	1060.8	1068.3	1071.9	1076.9	1074.4	1074.4
40°	654.6	868.2	1015.2	1020.0	1027.5	1018.8	1026.2	1028.7	1031.2	1028.7	1027.5
42.5°	590.4	785.4	971.9	978.1	973.1	979.3	981.8	986.8	983.0	978.1	978.1
45°	540.9	763.2	925.0	932.4	925.0	934.9	938.5	938.5	927.4	925.0	923.8
47.5°	524.8	718.8	878.1	878.1	874.3	886.7	892.9	884.2	873.1	869.5	869.5
50°	523.6	669.3	813.8	808.9	826.2	841.0	834.9	826.2	817.6	803.9	803.9
52.5°	475.5	608.9	731.1	749.6	776.8	785.4	775.5	766.9	752.1	745.9	740.9
55°	440.9	545.9	655.8	692.8	721.2	732.3	713.8	705.1	682.9	679.3	676.7
57.5°	433.5	454.5	586.6	633.5	668.1	666.9	655.8	639.7	621.2	617.5	616.3
60°	397.6	328.5	512.5	568.1	603.9	600.2	590.4	575.5	558.2	555.8	553.3
62.5°	360.6	238.4	428.6	491.6	542.1	540.9	532.3	510.1	497.7	491.6	486.6
65°	306.3	200.0	305.0	408.7	481.7	484.1	465.6	449.5	435.9	428.6	427.3
67.5°	233.4	163.0	206.2	340.9	423.6	421.1	397.6	390.2	372.9	369.2	361.8
70°	172.9	108.7	143.3	276.7	366.8	360.6	342.1	333.4	317.4	308.7	303.8
72.5°	143.3	87.7	105.0	214.9	308.7	301.3	285.3	275.4	261.8	254.4	249.5
75°	116.1	92.6	80.3	159.3	250.7	245.7	231.0	221.1	209.9	200.0	201.3
77.5°	85.2	86.5	64.2	117.3	198.8	191.4	182.7	170.4	165.4	155.6	155.6
80°	64.2	68.0	48.1	80.3	143.3	143.3	135.8	127.2	118.5	113.7	113.7
82.5°	43.2	43.2	35.8	50.7	97.6	93.8	88.9	86.5	81.5	79.1	79.1
85°	19.7	24.7	22.2	30.8	53.1	55.6	55.6	53.1	51.9	49.4	50.7
87.5°	6.2	11.1	13.6	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	3.6	3.6
92.5°	3.7	10.1	16.5	18.0	25.4	35.2	40.1	35.1	25.2	17.8	17.0
95°	9.0	20.7	32.3	35.2	62.5	98.9	117.1	104.5	79.3	60.4	58.2
97.5°	15.5	25.8	36.1	38.7	84.2	144.9	175.3	167.3	151.3	139.4	135.3
100°	20.6	29.9	39.3	41.6	92.1	159.5	193.1	193.7	194.9	195.7	190.9
102.5°	24.9	33.6	42.3	44.5	95.7	164.0	198.2	208.3	228.6	243.9	239.7
105°	32.2	39.6	46.9	48.8	98.4	164.5	197.6	220.4	265.9	300.0	297.8
107.5°	39.7	46.5	53.5	55.1	98.9	157.2	186.4	218.2	281.6	329.3	329.9
110°	44.8	50.9	57.1	58.7	98.1	150.8	177.0	212.6	283.5	336.8	339.1



TEST NUMBER: P934035

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-5000K

**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	145.1	168.5	204.9	277.5	332.0	335.6
115°	57.2	62.6	68.0	69.4	99.1	138.6	158.3	193.3	263.3	315.7	320.7
117.5°	64.6	69.5	74.5	75.7	100.9	134.5	151.3	182.9	246.0	293.4	298.9
120°	68.9	73.6	78.2	79.4	102.4	133.1	148.4	177.3	235.1	278.4	283.7
122.5°	73.1	77.8	82.4	83.7	104.5	132.4	146.3	172.3	224.2	263.2	268.4
125°	79.5	83.8	88.1	89.3	107.5	131.8	143.9	166.0	210.2	243.3	248.2
127.5°	84.8	89.2	93.5	94.6	110.4	131.4	142.0	161.0	198.9	227.3	231.4
130°	87.6	92.3	96.9	98.1	112.5	131.7	141.2	158.2	191.9	217.2	221.0
132.5°	90.6	95.2	99.9	101.0	114.2	131.8	140.6	155.7	185.9	208.6	212.0
135°	94.9	99.1	103.4	104.4	116.1	131.7	139.5	152.1	177.4	196.4	199.3
137.5°	99.3	103.5	107.7	108.7	118.9	132.4	139.3	149.9	171.3	187.4	189.8
140°	102.9	106.7	110.7	111.6	120.6	132.6	138.6	147.9	166.4	180.2	182.5
142.5°	105.7	109.3	112.8	113.8	122.1	133.1	138.6	146.7	163.0	175.2	177.1
145°	110.0	113.1	116.3	117.0	123.9	133.1	137.7	144.3	157.6	167.6	169.1
147.5°	114.3	117.3	120.4	121.1	126.7	134.0	137.7	142.9	153.4	161.2	162.5
150°	117.1	119.8	122.6	123.3	128.1	134.5	137.7	142.1	151.0	157.6	158.5
152.5°	120.0	122.1	124.1	124.7	129.0	134.8	137.7	141.4	149.0	154.7	155.4
155°	124.3	125.8	127.4	127.8	131.0	135.4	137.7	140.7	146.7	151.2	151.7
157.5°	127.5	129.0	130.5	130.9	133.1	136.2	137.7	140.0	144.7	148.2	148.5
160°	129.6	130.8	132.0	132.3	134.0	136.5	137.7	139.6	143.7	146.7	146.8
162.5°	131.8	132.6	133.6	133.8	135.1	136.8	137.7	139.4	142.7	145.3	145.4
165°	134.1	134.9	135.7	135.9	136.5	137.3	137.7	138.9	141.3	143.1	143.3
167.5°	136.3	136.7	137.0	137.1	137.6	138.2	138.6	139.4	141.0	142.2	142.3
170°	137.7	138.1	138.4	138.5	138.5	138.6	138.6	139.4	141.0	142.2	142.2
172.5°	138.4	138.5	138.6	138.6	138.6	138.6	138.6	139.3	140.5	141.4	141.3
175°	139.5	139.5	139.5	139.5	139.2	138.8	138.6	139.0	139.8	140.4	140.4
177.5°	139.5	139.5	139.5	139.5	139.3	139.0	138.8	139.1	139.7	140.2	140.1
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1338.7	1335.0	1338.7	1336.3	1337.5	1333.7	1322.6	1319.0	1322.6	1326.3	1326.3
5°	1354.8	1352.3	1354.8	1354.8	1353.5	1351.0	1338.7	1336.3	1338.7	1339.9	1337.5
7.5°	1359.7	1356.0	1359.7	1357.2	1357.2	1354.8	1342.4	1339.9	1341.2	1344.9	1341.2
10°	1359.7	1356.0	1359.7	1358.5	1357.2	1354.8	1342.4	1337.5	1337.5	1341.2	1337.5
12.5°	1353.5	1351.0	1353.5	1351.0	1351.0	1348.6	1336.3	1331.3	1332.5	1333.7	1328.9
15°	1343.6	1339.9	1343.6	1341.2	1342.4	1338.7	1325.1	1320.2	1320.2	1322.6	1314.0
17.5°	1328.9	1323.9	1328.9	1327.6	1326.3	1323.9	1311.6	1306.6	1305.3	1306.6	1300.5
20°	1311.6	1307.8	1311.6	1310.3	1310.3	1305.3	1293.0	1286.8	1286.8	1286.8	1280.6
22.5°	1284.4	1280.6	1284.4	1286.8	1286.8	1285.6	1274.5	1265.9	1263.3	1263.3	1256.0
25°	1253.5	1249.8	1253.5	1253.5	1252.2	1253.5	1249.8	1244.8	1241.1	1237.5	1230.1
27.5°	1223.8	1221.4	1223.8	1221.4	1223.8	1220.2	1219.0	1217.6	1212.8	1209.0	1199.1
30°	1194.2	1191.8	1194.2	1191.8	1189.3	1186.8	1180.6	1178.2	1183.1	1180.6	1164.6
32.5°	1157.2	1154.7	1157.2	1157.2	1154.7	1154.7	1144.8	1141.1	1142.3	1149.8	1134.9
35°	1118.8	1115.2	1118.8	1117.6	1118.8	1115.2	1109.0	1107.7	1102.9	1111.5	1100.3
37.5°	1074.4	1070.7	1074.4	1074.4	1074.4	1076.9	1071.9	1068.3	1060.8	1071.9	1063.3
40°	1028.7	1023.8	1028.7	1027.5	1028.7	1031.2	1028.7	1026.2	1018.8	1027.5	1020.0
42.5°	976.9	975.6	976.9	978.1	978.1	983.0	986.8	981.8	979.3	973.1	978.1
45°	921.2	918.8	921.2	923.8	925.0	927.4	938.5	938.5	934.9	925.0	932.4
47.5°	862.0	855.8	862.0	869.5	869.5	873.1	884.2	892.9	886.7	874.3	878.1
50°	799.0	800.3	799.0	803.9	803.9	817.6	826.2	834.9	841.0	826.2	808.9
52.5°	737.3	736.1	737.3	740.9	745.9	752.1	766.9	775.5	785.4	776.8	749.6
55°	675.5	678.0	675.5	676.7	679.3	682.9	705.1	713.8	732.3	721.2	692.8
57.5°	613.8	610.1	613.8	616.3	617.5	621.2	639.7	655.8	666.9	668.1	633.5
60°	542.1	537.2	542.1	553.3	555.8	558.2	575.5	590.4	600.2	603.9	568.1
62.5°	479.1	470.5	479.1	486.6	491.6	497.7	510.1	532.3	540.9	542.1	491.6
65°	412.5	408.7	412.5	427.3	428.6	435.9	449.5	465.6	484.1	481.7	408.7
67.5°	352.0	352.0	352.0	361.8	369.2	372.9	390.2	397.6	421.1	423.6	340.9
70°	296.4	295.2	296.4	303.8	308.7	317.4	333.4	342.1	360.6	366.8	276.7
72.5°	243.3	242.1	243.3	249.5	254.4	261.8	275.4	285.3	301.3	308.7	214.9
75°	196.4	193.9	196.4	201.3	200.0	209.9	221.1	231.0	245.7	250.7	159.3
77.5°	150.7	150.7	150.7	155.6	155.6	165.4	170.4	182.7	191.4	198.8	117.3
80°	112.4	111.1	112.4	113.7	113.7	118.5	127.2	135.8	143.3	143.3	80.3
82.5°	79.1	76.6	79.1	79.1	79.1	81.5	86.5	88.9	93.8	97.6	50.7
85°	49.4	49.4	49.4	50.7	49.4	51.9	53.1	55.6	55.6	53.1	30.8
87.5°	32.2	30.8	32.2	30.8	30.8	29.6	29.6	29.6	28.4	27.2	17.3
90°	3.6	3.6	3.6	3.6	3.6	4.8	6.4	7.1	6.1	4.1	2.6
92.5°	14.2	11.4	14.2	17.0	17.8	25.2	35.1	40.1	35.2	25.4	18.0
95°	49.7	41.1	49.7	58.2	60.4	79.3	104.5	117.1	98.9	62.5	35.2
97.5°	119.0	102.7	119.0	135.3	139.4	151.3	167.3	175.3	144.9	84.2	38.7
100°	171.5	152.1	171.5	190.9	195.7	194.9	193.7	193.1	159.5	92.1	41.6
102.5°	223.0	206.4	223.0	239.7	243.9	228.6	208.3	198.2	164.0	95.7	44.5
105°	288.9	279.9	288.9	297.8	300.0	265.9	220.4	197.6	164.5	98.4	48.8
107.5°	332.0	334.2	332.0	329.9	329.3	281.6	218.2	186.4	157.2	98.9	55.1
110°	348.4	357.7	348.4	339.1	336.8	283.5	212.6	177.0	150.8	98.1	58.7





TEST NUMBER: P934035

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	349.9	364.2	349.9	335.6	332.0	277.5	204.9	168.5	145.1	98.1	63.0
115°	340.6	360.4	340.6	320.7	315.7	263.3	193.3	158.3	138.6	99.1	69.4
117.5°	320.9	342.9	320.9	298.9	293.4	246.0	182.9	151.3	134.5	100.9	75.7
120°	305.1	326.4	305.1	283.7	278.4	235.1	177.3	148.4	133.1	102.4	79.4
122.5°	289.6	310.7	289.6	268.4	263.2	224.2	172.3	146.3	132.4	104.5	83.7
125°	267.6	287.0	267.6	248.2	243.3	210.2	166.0	143.9	131.8	107.5	89.3
127.5°	247.8	264.1	247.8	231.4	227.3	198.9	161.0	142.0	131.4	110.4	94.6
130°	236.1	251.2	236.1	221.0	217.2	191.9	158.2	141.2	131.7	112.5	98.1
132.5°	225.5	239.1	225.5	212.0	208.6	185.9	155.7	140.6	131.8	114.2	101.0
135°	211.1	222.7	211.1	199.3	196.4	177.4	152.1	139.5	131.7	116.1	104.4
137.5°	199.4	209.0	199.4	189.8	187.4	171.3	149.9	139.3	132.4	118.9	108.7
140°	191.3	200.3	191.3	182.5	180.2	166.4	147.9	138.6	132.6	120.6	111.6
142.5°	184.8	192.5	184.8	177.1	175.2	163.0	146.7	138.6	133.1	122.1	113.8
145°	174.9	180.7	174.9	169.1	167.6	157.6	144.3	137.7	133.1	123.9	117.0
147.5°	167.2	172.1	167.2	162.5	161.2	153.4	142.9	137.7	134.0	126.7	121.1
150°	162.5	166.4	162.5	158.5	157.6	151.0	142.1	137.7	134.5	128.1	123.3
152.5°	158.3	161.3	158.3	155.4	154.7	149.0	141.4	137.7	134.8	129.0	124.7
155°	153.7	155.6	153.7	151.7	151.2	146.7	140.7	137.7	135.4	131.0	127.8
157.5°	149.9	151.3	149.9	148.5	148.2	144.7	140.0	137.7	136.2	133.1	130.9
160°	147.7	148.4	147.7	146.8	146.7	143.7	139.6	137.7	136.5	134.0	132.3
162.5°	146.2	146.9	146.2	145.4	145.3	142.7	139.4	137.7	136.8	135.1	133.8
165°	144.1	144.9	144.1	143.3	143.1	141.3	138.9	137.7	137.3	136.5	135.9
167.5°	142.5	142.9	142.5	142.3	142.2	141.0	139.4	138.6	138.2	137.6	137.1
170°	142.2	142.2	142.2	142.2	142.2	141.0	139.4	138.6	138.6	138.5	138.5
172.5°	141.0	140.8	141.0	141.3	141.4	140.5	139.3	138.6	138.6	138.6	138.6
175°	140.4	140.4	140.4	140.4	140.4	139.8	139.0	138.6	138.8	139.2	139.5
177.5°	139.8	139.5	139.8	140.1	140.2	139.7	139.1	138.8	139.0	139.3	139.5
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P934035

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1323.9	1316.4	1316.4	1304.1	1299.1	1295.5	1289.3	1270.8	1265.9	1260.9	1268.3
5°	1335.0	1321.4	1311.6	1289.3	1270.8	1263.3	1239.9	1195.5	1165.8	1143.6	1131.3
7.5°	1337.5	1320.2	1301.7	1267.1	1222.6	1202.9	1131.3	1049.8	1027.5	1007.7	995.4
10°	1335.0	1315.2	1289.3	1237.5	1132.5	1097.9	1026.2	973.1	959.6	955.8	959.6
12.5°	1326.3	1307.8	1272.0	1185.6	1038.6	1015.2	973.1	942.3	939.8	946.0	979.3
15°	1311.6	1294.3	1252.2	1116.4	986.8	969.5	939.8	928.7	942.3	985.5	1085.6
17.5°	1296.7	1277.0	1225.1	1048.5	947.2	934.9	913.9	936.1	1012.7	1070.7	1104.1
20°	1277.0	1253.5	1194.2	999.1	918.8	907.7	897.8	997.9	1055.9	1076.9	1095.4
22.5°	1253.5	1228.8	1152.2	964.5	889.2	880.5	886.7	1032.5	1055.9	1070.7	1086.8
25°	1222.6	1201.7	1102.9	937.3	865.7	855.8	879.3	1028.7	1042.3	1046.0	1078.1
27.5°	1194.2	1167.1	1051.0	912.6	837.3	833.6	885.4	1012.7	1022.6	1026.2	1060.8
30°	1159.6	1118.8	992.9	886.7	807.7	806.5	886.7	992.9	990.4	1000.3	1034.9
32.5°	1123.8	1047.2	927.4	854.6	779.3	778.0	878.1	963.3	960.8	974.4	1000.3
35°	1090.5	991.7	838.5	817.6	743.5	744.7	857.0	928.7	929.9	942.3	958.4
37.5°	1055.9	943.5	740.9	776.8	708.9	708.9	828.6	896.6	894.1	897.8	920.0
40°	1015.2	868.2	654.6	723.6	676.7	673.1	794.1	862.0	853.4	852.2	883.0
42.5°	971.9	785.4	590.4	653.3	639.7	634.8	752.1	820.0	803.9	807.7	847.2
45°	925.0	763.2	540.9	552.0	601.4	597.7	706.4	771.9	760.8	770.7	811.4
47.5°	878.1	718.8	524.8	458.2	560.6	559.4	655.8	725.0	718.8	728.6	771.9
50°	813.8	669.3	523.6	392.8	515.0	519.9	595.2	679.3	679.3	687.9	733.6
52.5°	731.1	608.9	475.5	355.7	461.8	476.7	542.1	639.7	642.1	650.8	691.6
55°	655.8	545.9	440.9	327.2	398.9	431.0	490.3	599.0	603.9	612.5	649.6
57.5°	586.6	454.5	433.5	294.0	340.9	371.7	444.5	559.4	561.9	569.3	605.1
60°	512.5	328.5	397.6	258.1	290.2	313.7	402.6	512.5	521.2	526.1	557.0
62.5°	428.6	238.4	360.6	233.4	265.5	270.5	368.0	468.0	479.1	482.9	501.4
65°	305.0	200.0	306.3	212.5	239.6	240.8	331.0	422.4	432.2	438.4	452.0
67.5°	206.2	163.0	233.4	192.6	219.8	221.1	295.2	369.2	382.9	387.8	396.4
70°	143.3	108.7	172.9	171.7	197.6	200.0	256.9	321.1	333.4	337.1	342.1
72.5°	105.0	87.7	143.3	154.4	174.1	176.6	217.3	266.8	279.1	282.8	285.3
75°	80.3	92.6	116.1	134.6	148.2	149.5	177.9	217.3	226.0	228.4	229.7
77.5°	64.2	86.5	85.2	108.7	121.0	118.5	139.6	168.0	175.4	175.4	175.4
80°	48.1	68.0	64.2	77.8	88.9	86.5	100.0	119.8	122.3	124.7	123.5
82.5°	35.8	43.2	43.2	49.4	59.3	56.8	66.6	77.8	77.8	77.8	80.3
85°	22.2	24.7	19.7	25.9	33.4	32.2	37.0	42.0	43.2	43.2	40.8
87.5°	13.6	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°	16.5	10.1	3.7	10.1	16.5	18.0	25.4	35.2	40.1	35.1	25.2
95°	32.3	20.7	9.0	20.7	32.3	35.2	62.5	98.9	117.1	104.5	79.3
97.5°	36.1	25.8	15.5	25.8	36.1	38.7	84.2	144.9	175.3	167.3	151.3
100°	39.3	29.9	20.6	29.9	39.3	41.6	92.1	159.5	193.1	193.7	194.9
102.5°	42.3	33.6	24.9	33.6	42.3	44.5	95.7	164.0	198.2	208.3	228.6
105°	46.9	39.6	32.2	39.6	46.9	48.8	98.4	164.5	197.6	220.4	265.9
107.5°	53.5	46.5	39.7	46.5	53.5	55.1	98.9	157.2	186.4	218.2	281.6
110°	57.1	50.9	44.8	50.9	57.1	58.7	98.1	150.8	177.0	212.6	283.5



TEST NUMBER: P934035

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-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	145.1	168.5	204.9	277.5
115°	68.0	62.6	57.2	62.6	68.0	69.4	99.1	138.6	158.3	193.3	263.3
117.5°	74.5	69.5	64.6	69.5	74.5	75.7	100.9	134.5	151.3	182.9	246.0
120°	78.2	73.6	68.9	73.6	78.2	79.4	102.4	133.1	148.4	177.3	235.1
122.5°	82.4	77.8	73.1	77.8	82.4	83.7	104.5	132.4	146.3	172.3	224.2
125°	88.1	83.8	79.5	83.8	88.1	89.3	107.5	131.8	143.9	166.0	210.2
127.5°	93.5	89.2	84.8	89.2	93.5	94.6	110.4	131.4	142.0	161.0	198.9
130°	96.9	92.3	87.6	92.3	96.9	98.1	112.5	131.7	141.2	158.2	191.9
132.5°	99.9	95.2	90.6	95.2	99.9	101.0	114.2	131.8	140.6	155.7	185.9
135°	103.4	99.1	94.9	99.1	103.4	104.4	116.1	131.7	139.5	152.1	177.4
137.5°	107.7	103.5	99.3	103.5	107.7	108.7	118.9	132.4	139.3	149.9	171.3
140°	110.7	106.7	102.9	106.7	110.7	111.6	120.6	132.6	138.6	147.9	166.4
142.5°	112.8	109.3	105.7	109.3	112.8	113.8	122.1	133.1	138.6	146.7	163.0
145°	116.3	113.1	110.0	113.1	116.3	117.0	123.9	133.1	137.7	144.3	157.6
147.5°	120.4	117.3	114.3	117.3	120.4	121.1	126.7	134.0	137.7	142.9	153.4
150°	122.6	119.8	117.1	119.8	122.6	123.3	128.1	134.5	137.7	142.1	151.0
152.5°	124.1	122.1	120.0	122.1	124.1	124.7	129.0	134.8	137.7	141.4	149.0
155°	127.4	125.8	124.3	125.8	127.4	127.8	131.0	135.4	137.7	140.7	146.7
157.5°	130.5	129.0	127.5	129.0	130.5	130.9	133.1	136.2	137.7	140.0	144.7
160°	132.0	130.8	129.6	130.8	132.0	132.3	134.0	136.5	137.7	139.6	143.7
162.5°	133.6	132.6	131.8	132.6	133.6	133.8	135.1	136.8	137.7	139.4	142.7
165°	135.7	134.9	134.1	134.9	135.7	135.9	136.5	137.3	137.7	138.9	141.3
167.5°	137.0	136.7	136.3	136.7	137.0	137.1	137.6	138.2	138.6	139.4	141.0
170°	138.4	138.1	137.7	138.1	138.4	138.5	138.5	138.6	138.6	139.4	141.0
172.5°	138.6	138.5	138.4	138.5	138.6	138.6	138.6	138.6	138.6	139.3	140.5
175°	139.5	139.5	139.5	139.5	139.5	139.5	139.2	138.8	138.6	139.0	139.8
177.5°	139.5	139.5	139.5	139.5	139.5	139.5	139.3	139.0	138.8	139.1	139.7
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P934035  
 CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1259.7	1256.0	1260.9	1247.3	1260.9	1256.0	1259.7	1268.3	1260.9	1265.9	1270.8
5°	1105.3	1099.1	1079.4	1063.3	1079.4	1099.1	1105.3	1131.3	1143.6	1165.8	1195.5
7.5°	988.0	983.0	978.1	968.2	978.1	983.0	988.0	995.4	1007.7	1027.5	1049.8
10°	962.0	963.3	970.7	969.5	970.7	963.3	962.0	959.6	955.8	959.6	973.1
12.5°	1028.7	1039.9	1080.6	1078.1	1080.6	1039.9	1028.7	979.3	946.0	939.8	942.3
15°	1105.3	1109.0	1117.6	1118.8	1117.6	1109.0	1105.3	1085.6	985.5	942.3	928.7
17.5°	1112.7	1114.0	1120.2	1120.2	1120.2	1114.0	1112.7	1104.1	1070.7	1012.7	936.1
20°	1106.5	1109.0	1121.4	1123.8	1121.4	1109.0	1106.5	1095.4	1076.9	1055.9	997.9
22.5°	1104.1	1109.0	1118.8	1117.6	1118.8	1109.0	1104.1	1086.8	1070.7	1055.9	1032.5
25°	1091.7	1091.7	1093.0	1094.2	1093.0	1091.7	1091.7	1078.1	1046.0	1042.3	1028.7
27.5°	1065.8	1068.3	1075.7	1074.4	1075.7	1068.3	1065.8	1060.8	1026.2	1022.6	1012.7
30°	1042.3	1039.9	1033.7	1028.7	1033.7	1039.9	1042.3	1034.9	1000.3	990.4	992.9
32.5°	1002.8	996.6	990.4	986.8	990.4	996.6	1002.8	1000.3	974.4	960.8	963.3
35°	955.8	957.1	955.8	952.2	955.8	957.1	955.8	958.4	942.3	929.9	928.7
37.5°	922.6	925.0	923.8	918.8	923.8	925.0	922.6	920.0	897.8	894.1	896.6
40°	888.0	889.2	888.0	884.2	888.0	889.2	888.0	883.0	852.2	853.4	862.0
42.5°	854.6	853.4	849.6	847.2	849.6	853.4	854.6	847.2	807.7	803.9	820.0
45°	816.3	817.6	810.1	806.5	810.1	817.6	816.3	811.4	770.7	760.8	771.9
47.5°	778.0	778.0	771.9	768.1	771.9	778.0	778.0	771.9	728.6	718.8	725.0
50°	737.3	736.1	727.4	726.2	727.4	736.1	737.3	733.6	687.9	679.3	679.3
52.5°	690.4	690.4	691.6	694.0	691.6	690.4	690.4	691.6	650.8	642.1	639.7
55°	649.6	650.8	659.4	662.0	659.4	650.8	649.6	649.6	612.5	603.9	599.0
57.5°	607.6	607.6	613.8	613.8	613.8	607.6	607.6	605.1	569.3	561.9	559.4
60°	559.4	561.9	566.8	565.6	566.8	561.9	559.4	557.0	526.1	521.2	512.5
62.5°	508.8	511.3	512.5	510.1	512.5	511.3	508.8	501.4	482.9	479.1	468.0
65°	455.7	458.2	459.4	457.0	459.4	458.2	455.7	452.0	438.4	432.2	422.4
67.5°	401.4	400.1	398.9	403.8	398.9	400.1	401.4	396.4	387.8	382.9	369.2
70°	345.7	345.7	344.5	347.1	344.5	345.7	345.7	342.1	337.1	333.4	321.1
72.5°	286.5	285.3	290.2	286.5	290.2	285.3	286.5	285.3	282.8	279.1	266.8
75°	228.4	231.0	228.4	232.2	228.4	231.0	228.4	229.7	228.4	226.0	217.3
77.5°	174.1	176.6	174.1	174.1	174.1	176.6	174.1	175.4	175.4	175.4	168.0
80°	123.5	122.3	122.3	121.0	122.3	122.3	123.5	123.5	124.7	122.3	119.8
82.5°	79.1	77.8	77.8	80.3	77.8	77.8	79.1	80.3	77.8	77.8	77.8
85°	43.2	44.5	42.0	42.0	42.0	44.5	43.2	40.8	43.2	43.2	42.0
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°	3.6	3.6	3.6	3.6	3.6	3.6	3.6	4.8	6.4	7.1	6.1
92.5°	17.8	17.0	14.2	11.4	14.2	17.0	17.8	25.2	35.1	40.1	35.2
95°	60.4	58.2	49.7	41.1	49.7	58.2	60.4	79.3	104.5	117.1	98.9
97.5°	139.4	135.3	119.0	102.7	119.0	135.3	139.4	151.3	167.3	175.3	144.9
100°	195.7	190.9	171.5	152.1	171.5	190.9	195.7	194.9	193.7	193.1	159.5
102.5°	243.9	239.7	223.0	206.4	223.0	239.7	243.9	228.6	208.3	198.2	164.0
105°	300.0	297.8	288.9	279.9	288.9	297.8	300.0	265.9	220.4	197.6	164.5
107.5°	329.3	329.9	332.0	334.2	332.0	329.9	329.3	281.6	218.2	186.4	157.2
110°	336.8	339.1	348.4	357.7	348.4	339.1	336.8	283.5	212.6	177.0	150.8



TEST NUMBER: P934035

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	332.0	335.6	349.9	364.2	349.9	335.6	332.0	277.5	204.9	168.5	145.1
115°	315.7	320.7	340.6	360.4	340.6	320.7	315.7	263.3	193.3	158.3	138.6
117.5°	293.4	298.9	320.9	342.9	320.9	298.9	293.4	246.0	182.9	151.3	134.5
120°	278.4	283.7	305.1	326.4	305.1	283.7	278.4	235.1	177.3	148.4	133.1
122.5°	263.2	268.4	289.6	310.7	289.6	268.4	263.2	224.2	172.3	146.3	132.4
125°	243.3	248.2	267.6	287.0	267.6	248.2	243.3	210.2	166.0	143.9	131.8
127.5°	227.3	231.4	247.8	264.1	247.8	231.4	227.3	198.9	161.0	142.0	131.4
130°	217.2	221.0	236.1	251.2	236.1	221.0	217.2	191.9	158.2	141.2	131.7
132.5°	208.6	212.0	225.5	239.1	225.5	212.0	208.6	185.9	155.7	140.6	131.8
135°	196.4	199.3	211.1	222.7	211.1	199.3	196.4	177.4	152.1	139.5	131.7
137.5°	187.4	189.8	199.4	209.0	199.4	189.8	187.4	171.3	149.9	139.3	132.4
140°	180.2	182.5	191.3	200.3	191.3	182.5	180.2	166.4	147.9	138.6	132.6
142.5°	175.2	177.1	184.8	192.5	184.8	177.1	175.2	163.0	146.7	138.6	133.1
145°	167.6	169.1	174.9	180.7	174.9	169.1	167.6	157.6	144.3	137.7	133.1
147.5°	161.2	162.5	167.2	172.1	167.2	162.5	161.2	153.4	142.9	137.7	134.0
150°	157.6	158.5	162.5	166.4	162.5	158.5	157.6	151.0	142.1	137.7	134.5
152.5°	154.7	155.4	158.3	161.3	158.3	155.4	154.7	149.0	141.4	137.7	134.8
155°	151.2	151.7	153.7	155.6	153.7	151.7	151.2	146.7	140.7	137.7	135.4
157.5°	148.2	148.5	149.9	151.3	149.9	148.5	148.2	144.7	140.0	137.7	136.2
160°	146.7	146.8	147.7	148.4	147.7	146.8	146.7	143.7	139.6	137.7	136.5
162.5°	145.3	145.4	146.2	146.9	146.2	145.4	145.3	142.7	139.4	137.7	136.8
165°	143.1	143.3	144.1	144.9	144.1	143.3	143.1	141.3	138.9	137.7	137.3
167.5°	142.2	142.3	142.5	142.9	142.5	142.3	142.2	141.0	139.4	138.6	138.2
170°	142.2	142.2	142.2	142.2	142.2	142.2	142.2	141.0	139.4	138.6	138.6
172.5°	141.4	141.3	141.0	140.8	141.0	141.3	141.4	140.5	139.3	138.6	138.6
175°	140.4	140.4	140.4	140.4	140.4	140.4	140.4	139.8	139.0	138.6	138.8
177.5°	140.2	140.1	139.8	139.5	139.8	140.1	140.2	139.7	139.1	138.8	139.0
180°	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P934035

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1305.3	1305.3	1305.3	1305.3	1305.3
2.5°	1289.3	1295.5	1299.1	1304.1	1316.4
5°	1239.9	1263.3	1270.8	1289.3	1311.6
7.5°	1131.3	1202.9	1222.6	1267.1	1301.7
10°	1026.2	1097.9	1132.5	1237.5	1289.3
12.5°	973.1	1015.2	1038.6	1185.6	1272.0
15°	939.8	969.5	986.8	1116.4	1252.2
17.5°	913.9	934.9	947.2	1048.5	1225.1
20°	897.8	907.7	918.8	999.1	1194.2
22.5°	886.7	880.5	889.2	964.5	1152.2
25°	879.3	855.8	865.7	937.3	1102.9
27.5°	885.4	833.6	837.3	912.6	1051.0
30°	886.7	806.5	807.7	886.7	992.9
32.5°	878.1	778.0	779.3	854.6	927.4
35°	857.0	744.7	743.5	817.6	838.5
37.5°	828.6	708.9	708.9	776.8	740.9
40°	794.1	673.1	676.7	723.6	654.6
42.5°	752.1	634.8	639.7	653.3	590.4
45°	706.4	597.7	601.4	552.0	540.9
47.5°	655.8	559.4	560.6	458.2	524.8
50°	595.2	519.9	515.0	392.8	523.6
52.5°	542.1	476.7	461.8	355.7	475.5
55°	490.3	431.0	398.9	327.2	440.9
57.5°	444.5	371.7	340.9	294.0	433.5
60°	402.6	313.7	290.2	258.1	397.6
62.5°	368.0	270.5	265.5	233.4	360.6
65°	331.0	240.8	239.6	212.5	306.3
67.5°	295.2	221.1	219.8	192.6	233.4
70°	256.9	200.0	197.6	171.7	172.9
72.5°	217.3	176.6	174.1	154.4	143.3
75°	177.9	149.5	148.2	134.6	116.1
77.5°	139.6	118.5	121.0	108.7	85.2
80°	100.0	86.5	88.9	77.8	64.2
82.5°	66.6	56.8	59.3	49.4	43.2
85°	37.0	32.2	33.4	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	16.5	10.1	3.7
95°	62.5	35.2	32.3	20.7	9.0
97.5°	84.2	38.7	36.1	25.8	15.5
100°	92.1	41.6	39.3	29.9	20.6
102.5°	95.7	44.5	42.3	33.6	24.9
105°	98.4	48.8	46.9	39.6	32.2
107.5°	98.9	55.1	53.5	46.5	39.7
110°	98.1	58.7	57.1	50.9	44.8



TEST NUMBER: P934035

CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-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°	99.1	69.4	68.0	62.6	57.2
117.5°	100.9	75.7	74.5	69.5	64.6
120°	102.4	79.4	78.2	73.6	68.9
122.5°	104.5	83.7	82.4	77.8	73.1
125°	107.5	89.3	88.1	83.8	79.5
127.5°	110.4	94.6	93.5	89.2	84.8
130°	112.5	98.1	96.9	92.3	87.6
132.5°	114.2	101.0	99.9	95.2	90.6
135°	116.1	104.4	103.4	99.1	94.9
137.5°	118.9	108.7	107.7	103.5	99.3
140°	120.6	111.6	110.7	106.7	102.9
142.5°	122.1	113.8	112.8	109.3	105.7
145°	123.9	117.0	116.3	113.1	110.0
147.5°	126.7	121.1	120.4	117.3	114.3
150°	128.1	123.3	122.6	119.8	117.1
152.5°	129.0	124.7	124.1	122.1	120.0
155°	131.0	127.8	127.4	125.8	124.3
157.5°	133.1	130.9	130.5	129.0	127.5
160°	134.0	132.3	132.0	130.8	129.6
162.5°	135.1	133.8	133.6	132.6	131.8
165°	136.5	135.9	135.7	134.9	134.1
167.5°	137.6	137.1	137.0	136.7	136.3
170°	138.5	138.5	138.4	138.1	137.7
172.5°	138.6	138.6	138.6	138.5	138.4
175°	139.2	139.5	139.5	139.5	139.5
177.5°	139.3	139.5	139.5	139.5	139.5
180°	139.5	139.5	139.5	139.5	139.5



TEST NUMBER: P934035  
 CATALOG NUMBER: SQ4-FA-025U-100D-92765-1D-UNV-STD-W-4-5000K

**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	16.46	17.67	18.46	18.59	19.79	19.25	20.47	21.26
	3H	16.30	17.37	16.97	18.06	18.88	19.95	21.03	20.63	21.72	22.54
	4H	16.50	17.52	17.20	18.22	19.05	20.41	21.42	21.10	22.12	22.96
	6H	16.64	17.58	17.35	18.29	19.14	20.70	21.64	21.41	22.35	23.20
	8H	16.65	17.54	17.37	18.27	19.13	20.78	21.67	21.50	22.40	23.26
	12H	16.63	17.49	17.36	18.21	19.09	20.82	21.68	21.55	22.40	23.28
4H	2H	16.86	17.87	17.56	18.57	19.41	19.04	20.06	19.74	20.76	21.59
	3H	17.92	18.76	18.63	19.50	20.35	20.57	21.42	21.28	22.15	23.01
	4H	18.21	18.97	18.93	19.71	20.60	21.10	21.87	21.83	22.61	23.50
	6H	18.35	19.02	19.10	19.78	20.67	21.48	22.15	22.23	22.91	23.80
	8H	18.36	18.99	19.12	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	20.07	20.97	21.26	21.88	22.01	22.64	23.54
	6H	18.96	19.47	19.74	20.28	21.18	21.70	22.21	22.48	23.02	23.92
	8H	19.00	19.46	19.80	20.27	21.19	21.85	22.31	22.64	23.11	24.03
	12H	19.00	19.41	19.80	20.20	21.18	21.96	22.36	22.75	23.16	24.14
12H	4H	18.70	19.26	19.47	20.05	20.96	21.24	21.80	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	19.51	19.90	20.30	21.28	21.87	22.28	22.67	23.07	24.05