

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: P934246

Luminaire Tested: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-4000K

Issue Date: 12/17/2024

**Test Information**

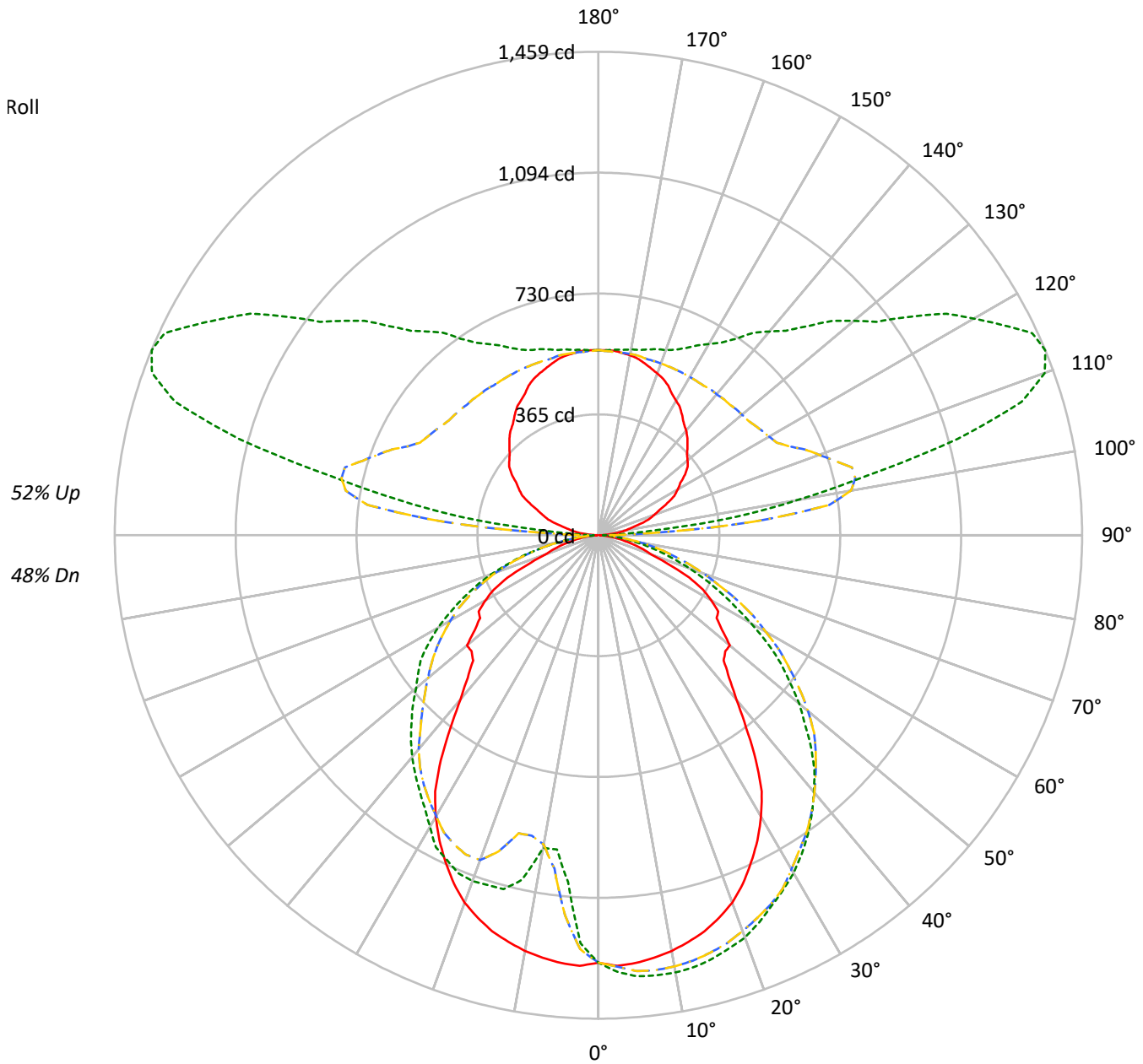
Test Method: LM-79-2019  
Report Number: P934246  
REPORT IS A COMBINATION OF REPORTS P933692 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-4000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6967.8 lumens  
Efficiency: N/A  
Efficacy: 122.7 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 56.8  
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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CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-4000K

### 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	107	107	107	107	98	98	98	98	82	82	82	68	68	68	54	54	54	48
1	97	93	89	86	89	86	83	80	72	70	68	60	58	56	48	47	46	41
2	89	81	75	70	81	75	70	65	63	59	56	52	50	47	42	40	39	34
3	81	71	64	58	74	66	60	55	56	51	47	46	43	40	38	35	33	29
4	74	63	55	49	68	58	52	46	50	44	40	41	37	34	33	31	28	25
5	68	56	48	42	62	52	45	40	44	39	35	37	33	30	30	27	25	21
6	62	50	42	37	57	47	40	34	40	34	30	33	29	26	27	24	22	19
7	58	45	38	32	53	42	35	30	36	30	26	30	26	23	25	22	19	17
8	54	41	34	28	49	38	31	27	33	27	23	28	23	20	23	20	17	15
9	50	38	30	25	46	35	28	24	30	25	21	25	21	18	21	18	16	13
10	47	34	27	22	43	32	26	21	28	22	19	23	19	16	20	16	14	12

**AVERAGE LUMINANCE (cd/sqm):**

	0°	90°	180°	270°
0°	5984	5984	5984	5984
5°	6028	6040	6028	4749
10°	5988	5950	5988	4254
15°	5923	5821	5923	4860
20°	5799	5668	5799	4871
25°	5546	5445	5546	4767
30°	5218	5260	5218	4541
35°	4651	5027	4651	4292
40°	3876	4751	3876	4104
45°	3463	4429	3463	3888
50°	3679	4045	3679	3670
55°	3461	3631	3461	3544
60°	3569	3084	3569	3246
65°	3234	2549	3234	2850
70°	2240	2031	2240	2388
75°	1964	1502	1964	1798
80°	1582	993	1582	1080
85°	913	526	913	447

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5308 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	116.4	1.7
10°-20°	330.5	4.7
20°-30°	510.9	7.3
30°-40°	610.0	8.8
40°-50°	613.5	8.8
50°-60°	533.8	7.7
60°-70°	378.5	5.4
70°-80°	200.2	2.9
80°-90°	52.0	0.7
90°-100°	272.3	3.9
100°-110°	716.0	10.3
110°-120°	742.4	10.7
120°-130°	595.5	8.5
130°-140°	467.3	6.7
140°-150°	358.6	5.1
150°-160°	258.3	3.7
160°-170°	158.0	2.3
170°-180°	53.4	0.8
0°-30°	957.9	13.7
0°-40°	1567.8	22.5
0°-60°	2715.2	39.0
0°-90°	3346.0	48.0
90°-120°	1730.7	24.8
90°-150°	3152.2	45.2
90°-180°	3622.0	52.0
0°-180°	6967.8	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1290	1290	1290	1290	1290	
5°	1296	1336	1296	1050	1296	123
15°	1237	1324	1237	1105	1237	348
25°	1090	1235	1090	1081	1090	500
35°	828	1102	828	941	828	513
45°	534	908	534	797	534	428
55°	436	670	436	654	436	400
65°	302	404	302	452	302	289
75°	115	192	115	229	115	121
85°	20	49	20	42	20	26
90°	4	14	4	14	4	4
95°	36	165	36	165	36	40
105°	129	1121	129	1121	129	137
115°	229	1444	229	1444	229	226
125°	319	1150	319	1150	319	283
135°	380	892	380	892	380	294
145°	441	724	441	724	441	276
155°	498	623	498	623	498	229
165°	537	580	537	580	537	152
175°	559	562	559	562	559	53
180°	559	559	559	559	559	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1300.6	1300.6	1308.0	1310.4	1310.4	1306.7	1303.1	1306.7	1317.7	1321.3	1320.2
5°	1295.8	1305.5	1319.0	1321.3	1323.8	1322.6	1320.2	1322.6	1334.8	1337.3	1338.4
7.5°	1286.0	1304.3	1321.3	1325.1	1328.7	1325.1	1323.8	1326.3	1338.4	1340.9	1340.9
10°	1273.8	1299.4	1319.0	1321.3	1325.1	1321.3	1321.3	1326.3	1338.4	1340.9	1342.1
12.5°	1256.7	1292.0	1310.4	1312.8	1317.7	1316.5	1315.2	1320.2	1332.3	1334.8	1334.8
15°	1237.2	1278.7	1295.8	1298.1	1306.7	1304.3	1304.3	1309.1	1322.6	1326.3	1325.1
17.5°	1210.4	1261.6	1281.1	1284.8	1290.9	1289.7	1290.9	1295.8	1308.0	1310.4	1311.6
20°	1179.8	1238.4	1261.6	1265.2	1271.3	1271.3	1271.3	1277.4	1289.7	1294.5	1294.5
22.5°	1138.3	1214.0	1238.4	1240.8	1248.2	1248.2	1250.6	1259.1	1270.1	1271.3	1271.3
25°	1089.6	1187.2	1207.9	1215.2	1222.6	1226.2	1229.8	1234.7	1238.4	1237.2	1238.4
27.5°	1038.4	1153.0	1179.8	1184.7	1194.4	1198.2	1203.0	1204.3	1205.5	1209.1	1206.7
30°	981.0	1105.4	1145.7	1150.6	1166.4	1168.9	1164.0	1166.4	1172.5	1175.0	1177.4
32.5°	916.3	1034.6	1110.3	1121.3	1136.0	1128.6	1127.4	1131.0	1140.8	1140.8	1143.2
35°	828.4	979.8	1077.4	1087.1	1098.1	1089.6	1094.5	1095.7	1101.8	1105.4	1104.2
37.5°	732.1	932.2	1043.2	1050.5	1059.1	1048.1	1055.4	1059.1	1063.9	1061.5	1061.5
40°	646.7	857.7	1003.0	1007.8	1015.2	1006.6	1013.9	1016.3	1018.8	1016.3	1015.2
42.5°	583.2	776.0	960.2	966.3	961.4	967.6	969.9	974.9	971.2	966.3	966.3
45°	534.4	754.0	913.8	921.2	913.8	923.6	927.3	927.3	916.3	913.8	912.6
47.5°	518.6	710.1	867.5	867.5	863.8	876.1	882.2	873.6	862.6	859.0	859.0
50°	517.3	661.3	804.0	799.2	816.2	830.9	824.8	816.2	807.7	794.3	794.3
52.5°	469.7	601.5	722.3	740.6	767.5	776.0	766.2	757.7	743.1	736.9	732.1
55°	435.5	539.3	647.8	684.5	712.5	723.5	705.2	696.7	674.7	671.0	668.6
57.5°	428.3	449.0	579.5	625.9	660.0	658.9	647.8	632.0	613.7	610.1	608.8
60°	392.9	324.6	506.3	561.2	596.6	593.0	583.2	568.5	551.5	549.1	546.6
62.5°	356.3	235.5	423.3	485.6	535.6	534.4	525.9	503.9	491.7	485.6	480.7
65°	302.5	197.7	301.4	403.9	475.8	478.3	460.0	444.1	430.7	423.3	422.2
67.5°	230.6	161.1	203.8	336.7	418.5	416.1	392.9	385.6	368.5	364.9	357.5
70°	170.8	107.3	141.5	273.3	362.4	356.3	337.9	329.5	313.6	305.0	300.2
72.5°	141.5	86.6	103.7	212.3	305.0	297.7	281.8	272.1	258.7	251.3	246.4
75°	114.7	91.5	79.3	157.4	247.7	242.8	228.1	218.4	207.4	197.7	198.8
77.5°	84.2	85.4	63.4	115.9	196.5	189.1	180.6	168.4	163.5	153.7	153.7
80°	63.4	67.1	47.6	79.3	141.5	141.5	134.2	125.7	117.2	112.2	112.2
82.5°	42.7	42.7	35.4	50.0	96.4	92.7	87.9	85.4	80.5	78.0	78.0
85°	19.6	24.4	21.9	30.5	52.5	54.9	54.9	52.5	51.2	48.8	50.0
87.5°	6.1	11.0	13.5	17.1	26.8	28.1	29.3	29.3	29.3	30.5	30.5
90°	3.7	6.7	9.7	10.5	16.5	24.5	28.5	25.3	19.0	14.3	14.3
92.5°	15.0	40.5	66.0	72.4	101.8	140.9	160.5	140.6	101.0	71.2	68.4
95°	36.0	82.7	129.4	141.0	250.3	396.1	469.1	418.6	317.6	241.9	233.3
97.5°	62.2	103.3	144.5	154.8	337.2	580.3	702.0	670.0	606.2	558.3	542.0
100°	82.5	119.8	157.1	166.5	368.9	638.7	773.6	775.9	780.6	784.0	764.5
102.5°	99.8	134.6	169.4	178.1	383.3	657.0	793.8	834.5	915.8	976.8	960.1
105°	129.0	158.5	188.0	195.4	394.1	659.1	791.6	882.7	1065.1	1201.8	1192.8
107.5°	159.0	186.5	213.9	220.9	396.1	629.7	746.5	873.7	1128.0	1318.8	1321.0
110°	179.2	204.0	229.0	235.1	393.1	603.7	709.1	851.2	1135.5	1348.7	1358.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	199.1	222.8	246.4	252.3	393.2	581.1	675.0	820.4	1111.4	1329.6	1344.0
115°	229.1	251.0	272.8	278.3	396.9	555.1	634.1	774.3	1054.5	1264.8	1284.6
117.5°	258.7	278.5	298.4	303.4	404.2	538.7	605.9	732.4	985.4	1175.2	1197.2
120°	276.0	294.6	313.4	318.0	410.2	533.2	594.7	710.2	941.4	1114.8	1136.1
122.5°	292.8	311.6	330.5	335.2	418.8	530.3	586.1	690.1	898.4	1054.5	1075.6
125°	318.7	335.8	353.0	357.3	430.4	528.0	576.7	665.1	842.0	974.6	994.1
127.5°	339.7	357.0	374.3	378.7	442.1	526.6	568.8	644.8	796.6	910.5	926.8
130°	350.9	369.6	388.3	393.0	450.5	527.4	565.8	633.4	768.6	869.9	885.1
132.5°	362.6	381.2	400.0	404.6	457.5	528.0	563.2	623.7	744.7	835.4	849.0
135°	379.9	396.9	413.8	418.1	464.9	527.4	558.7	609.4	710.7	786.7	798.4
137.5°	397.5	414.3	431.2	435.4	476.2	530.7	558.0	600.8	686.5	750.7	760.3
140°	412.1	427.6	443.1	447.0	483.1	531.2	555.3	592.4	666.3	721.8	730.7
142.5°	423.3	437.6	452.0	455.5	488.8	533.1	555.3	587.8	652.8	701.6	709.3
145°	440.6	453.1	465.6	468.7	496.4	533.2	551.6	578.2	631.4	671.2	677.0
147.5°	457.8	470.0	482.2	485.2	507.3	536.9	551.6	572.5	614.3	645.7	650.5
150°	469.1	480.1	491.1	493.8	513.1	538.8	551.6	569.3	604.6	631.1	635.0
152.5°	480.7	489.1	497.4	499.5	516.9	540.1	551.6	566.7	596.8	619.5	622.5
155°	497.9	504.1	510.3	511.9	525.1	542.8	551.6	563.6	587.5	605.5	607.5
157.5°	510.7	516.7	522.7	524.2	533.3	545.5	551.6	560.9	579.5	593.5	594.9
160°	519.3	524.0	528.7	529.9	537.1	546.8	551.6	559.6	575.5	587.5	588.4
162.5°	528.0	531.5	535.0	535.9	541.1	548.1	551.6	558.3	571.9	582.0	582.7
165°	537.3	540.5	543.6	544.4	546.8	550.0	551.6	556.4	566.1	573.3	574.2
167.5°	546.0	547.4	549.0	549.3	551.3	554.0	555.3	558.5	564.9	569.6	570.0
170°	551.6	553.1	554.6	555.0	555.1	555.2	555.3	558.5	564.9	569.6	569.6
172.5°	554.6	555.0	555.2	555.3	555.3	555.3	555.3	557.9	562.9	566.6	566.3
175°	558.7	558.7	558.7	558.7	557.6	556.1	555.3	556.9	560.1	562.4	562.4
177.5°	558.7	558.7	558.7	558.7	557.8	556.6	556.1	557.3	559.8	561.7	561.3
180°	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1322.6	1319.0	1322.6	1320.2	1321.3	1317.7	1306.7	1303.1	1306.7	1310.4	1310.4
5°	1338.4	1336.0	1338.4	1338.4	1337.3	1334.8	1322.6	1320.2	1322.6	1323.8	1321.3
7.5°	1343.4	1339.7	1343.4	1340.9	1340.9	1338.4	1326.3	1323.8	1325.1	1328.7	1325.1
10°	1343.4	1339.7	1343.4	1342.1	1340.9	1338.4	1326.3	1321.3	1321.3	1325.1	1321.3
12.5°	1337.3	1334.8	1337.3	1334.8	1334.8	1332.3	1320.2	1315.2	1316.5	1317.7	1312.8
15°	1327.4	1323.8	1327.4	1325.1	1326.3	1322.6	1309.1	1304.3	1304.3	1306.7	1298.1
17.5°	1312.8	1308.0	1312.8	1311.6	1310.4	1308.0	1295.8	1290.9	1289.7	1290.9	1284.8
20°	1295.8	1292.0	1295.8	1294.5	1294.5	1289.7	1277.4	1271.3	1271.3	1271.3	1265.2
22.5°	1268.9	1265.2	1268.9	1271.3	1271.3	1270.1	1259.1	1250.6	1248.2	1248.2	1240.8
25°	1238.4	1234.7	1238.4	1238.4	1237.2	1238.4	1234.7	1229.8	1226.2	1222.6	1215.2
27.5°	1209.1	1206.7	1209.1	1206.7	1209.1	1205.5	1204.3	1203.0	1198.2	1194.4	1184.7
30°	1179.8	1177.4	1179.8	1177.4	1175.0	1172.5	1166.4	1164.0	1168.9	1166.4	1150.6
32.5°	1143.2	1140.8	1143.2	1143.2	1140.8	1140.8	1131.0	1127.4	1128.6	1136.0	1121.3
35°	1105.4	1101.8	1105.4	1104.2	1105.4	1101.8	1095.7	1094.5	1089.6	1098.1	1087.1
37.5°	1061.5	1057.8	1061.5	1061.5	1061.5	1063.9	1059.1	1055.4	1048.1	1059.1	1050.5
40°	1016.3	1011.4	1016.3	1015.2	1016.3	1018.8	1016.3	1013.9	1006.6	1015.2	1007.8
42.5°	965.1	963.9	965.1	966.3	966.3	971.2	974.9	969.9	967.6	961.4	966.3
45°	910.2	907.7	910.2	912.6	913.8	916.3	927.3	927.3	923.6	913.8	921.2
47.5°	851.6	845.5	851.6	859.0	859.0	862.6	873.6	882.2	876.1	863.8	867.5
50°	789.4	790.7	789.4	794.3	794.3	807.7	816.2	824.8	830.9	816.2	799.2
52.5°	728.4	727.2	728.4	732.1	736.9	743.1	757.7	766.2	776.0	767.5	740.6
55°	667.4	669.9	667.4	668.6	671.0	674.7	696.7	705.2	723.5	712.5	684.5
57.5°	606.4	602.7	606.4	608.8	610.1	613.7	632.0	647.8	658.9	660.0	625.9
60°	535.6	530.8	535.6	546.6	549.1	551.5	568.5	583.2	593.0	596.6	561.2
62.5°	473.4	464.8	473.4	480.7	485.6	491.7	503.9	525.9	534.4	535.6	485.6
65°	407.5	403.9	407.5	422.2	423.3	430.7	444.1	460.0	478.3	475.8	403.9
67.5°	347.8	347.8	347.8	357.5	364.9	368.5	385.6	392.9	416.1	418.5	336.7
70°	292.8	291.6	292.8	300.2	305.0	313.6	329.5	337.9	356.3	362.4	273.3
72.5°	240.3	239.1	240.3	246.4	251.3	258.7	272.1	281.8	297.7	305.0	212.3
75°	194.0	191.6	194.0	198.8	197.7	207.4	218.4	228.1	242.8	247.7	157.4
77.5°	148.8	148.8	148.8	153.7	153.7	163.5	168.4	180.6	189.1	196.5	115.9
80°	111.1	109.8	111.1	112.2	112.2	117.2	125.7	134.2	141.5	141.5	79.3
82.5°	78.0	75.7	78.0	78.0	78.0	80.5	85.4	87.9	92.7	96.4	50.0
85°	48.8	48.8	48.8	50.0	48.8	51.2	52.5	54.9	54.9	52.5	30.5
87.5°	31.7	30.5	31.7	30.5	30.5	29.3	29.3	29.3	28.1	26.8	17.1
90°	14.3	14.3	14.3	14.3	14.3	19.0	25.3	28.5	24.5	16.5	10.5
92.5°	57.0	45.8	57.0	68.4	71.2	101.0	140.6	160.5	140.9	101.8	72.4
95°	198.9	164.6	198.9	233.3	241.9	317.6	418.6	469.1	396.1	250.3	141.0
97.5°	476.6	411.3	476.6	542.0	558.3	606.2	670.0	702.0	580.3	337.2	154.8
100°	686.8	608.9	686.8	764.5	784.0	780.6	775.9	773.6	638.7	368.9	166.5
102.5°	893.4	826.8	893.4	960.1	976.8	915.8	834.5	793.8	657.0	383.3	178.1
105°	1157.0	1121.1	1157.0	1192.8	1201.8	1065.1	882.7	791.6	659.1	394.1	195.4
107.5°	1329.6	1338.3	1329.6	1321.0	1318.8	1128.0	873.7	746.5	629.7	396.1	220.9
110°	1395.4	1432.8	1395.4	1358.1	1348.7	1135.5	851.2	709.1	603.7	393.1	235.1





TEST NUMBER: P934246

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1401.3	1458.6	1401.3	1344.0	1329.6	1111.4	820.4	675.0	581.1	393.2	252.3
115°	1364.1	1443.6	1364.1	1284.6	1264.8	1054.5	774.3	634.1	555.1	396.9	278.3
117.5°	1285.4	1373.6	1285.4	1197.2	1175.2	985.4	732.4	605.9	538.7	404.2	303.4
120°	1221.8	1307.5	1221.8	1136.1	1114.8	941.4	710.2	594.7	533.2	410.2	318.0
122.5°	1160.1	1244.6	1160.1	1075.6	1054.5	898.4	690.1	586.1	530.3	418.8	335.2
125°	1071.8	1149.7	1071.8	994.1	974.6	842.0	665.1	576.7	528.0	430.4	357.3
127.5°	992.5	1058.2	992.5	926.8	910.5	796.6	644.8	568.8	526.6	442.1	378.7
130°	945.7	1006.4	945.7	885.1	869.9	768.6	633.4	565.8	527.4	450.5	393.0
132.5°	903.4	957.7	903.4	849.0	835.4	744.7	623.7	563.2	528.0	457.5	404.6
135°	845.2	892.1	845.2	798.4	786.7	710.7	609.4	558.7	527.4	464.9	418.1
137.5°	798.7	837.0	798.7	760.3	750.7	686.5	600.8	558.0	530.7	476.2	435.4
140°	766.6	802.4	766.6	730.7	721.8	666.3	592.4	555.3	531.2	483.1	447.0
142.5°	740.1	770.9	740.1	709.3	701.6	652.8	587.8	555.3	533.1	488.8	455.5
145°	700.4	723.7	700.4	677.0	671.2	631.4	578.2	551.6	533.2	496.4	468.7
147.5°	669.9	689.2	669.9	650.5	645.7	614.3	572.5	551.6	536.9	507.3	485.2
150°	650.7	666.3	650.7	635.0	631.1	604.6	569.3	551.6	538.8	513.1	493.8
152.5°	634.3	646.1	634.3	622.5	619.5	596.8	566.7	551.6	540.1	516.9	499.5
155°	615.4	623.2	615.4	607.5	605.5	587.5	563.6	551.6	542.8	525.1	511.9
157.5°	600.5	605.9	600.5	594.9	593.5	579.5	560.9	551.6	545.5	533.3	524.2
160°	591.5	594.7	591.5	588.4	587.5	575.5	559.6	551.6	546.8	537.1	529.9
162.5°	585.7	588.7	585.7	582.7	582.0	571.9	558.3	551.6	548.1	541.1	535.9
165°	577.3	580.4	577.3	574.2	573.3	566.1	556.4	551.6	550.0	546.8	544.4
167.5°	571.3	572.6	571.3	570.0	569.6	564.9	558.5	555.3	554.0	551.3	549.3
170°	569.6	569.6	569.6	569.6	569.6	564.9	558.5	555.3	555.2	555.1	555.0
172.5°	565.2	564.0	565.2	566.3	566.6	562.9	557.9	555.3	555.3	555.3	555.3
175°	562.4	562.4	562.4	562.4	562.4	560.1	556.9	555.3	556.1	557.6	558.7
177.5°	560.1	558.7	560.1	561.3	561.7	559.8	557.3	556.1	556.6	557.8	558.7
180°	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7



TEST NUMBER: P934246

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1308.0	1300.6	1300.6	1288.4	1283.6	1279.9	1273.8	1255.5	1250.6	1245.7	1253.0
5°	1319.0	1305.5	1295.8	1273.8	1255.5	1248.2	1225.0	1181.1	1151.8	1129.8	1117.6
7.5°	1321.3	1304.3	1286.0	1251.8	1207.9	1188.3	1117.6	1037.1	1015.2	995.6	983.4
10°	1319.0	1299.4	1273.8	1222.6	1118.9	1084.7	1013.9	961.4	948.0	944.4	948.0
12.5°	1310.4	1292.0	1256.7	1171.3	1026.1	1003.0	961.4	930.9	928.5	934.6	967.6
15°	1295.8	1278.7	1237.2	1102.9	974.9	957.8	928.5	917.6	930.9	973.7	1072.5
17.5°	1281.1	1261.6	1210.4	1035.9	935.8	923.6	902.9	924.8	1000.5	1057.8	1090.7
20°	1261.6	1238.4	1179.8	987.0	907.7	896.8	887.0	985.9	1043.2	1063.9	1082.2
22.5°	1238.4	1214.0	1138.3	952.9	878.4	870.0	876.1	1020.0	1043.2	1057.8	1073.6
25°	1207.9	1187.2	1089.6	926.1	855.3	845.5	868.7	1016.3	1029.8	1033.4	1065.2
27.5°	1179.8	1153.0	1038.4	901.6	827.2	823.6	874.8	1000.5	1010.2	1013.9	1048.1
30°	1145.7	1105.4	981.0	876.1	797.9	796.8	876.1	981.0	978.5	988.3	1022.4
32.5°	1110.3	1034.6	916.3	844.3	769.9	768.6	867.5	951.7	949.2	962.7	988.3
35°	1077.4	979.8	828.4	807.7	734.5	735.7	846.8	917.6	918.7	930.9	946.8
37.5°	1043.2	932.2	732.1	767.5	700.3	700.3	818.7	885.8	883.3	887.0	909.0
40°	1003.0	857.7	646.7	715.0	668.6	664.9	784.6	851.6	843.1	841.9	872.3
42.5°	960.2	776.0	583.2	645.5	632.0	627.1	743.1	810.1	794.3	797.9	837.0
45°	913.8	754.0	534.4	545.4	594.2	590.5	697.9	762.5	751.5	761.4	801.6
47.5°	867.5	710.1	518.6	452.6	554.0	552.7	647.8	716.2	710.1	719.9	762.5
50°	804.0	661.3	517.3	388.0	508.8	513.7	588.1	671.0	671.0	679.6	724.7
52.5°	722.3	601.5	469.7	351.4	456.3	470.9	535.6	632.0	634.5	643.0	683.2
55°	647.8	539.3	435.5	323.3	394.1	425.8	484.4	591.7	596.6	605.2	641.7
57.5°	579.5	449.0	428.3	290.4	336.7	367.2	439.3	552.7	555.2	562.4	597.8
60°	506.3	324.6	392.9	255.0	286.7	309.9	397.8	506.3	514.9	519.8	550.2
62.5°	423.3	235.5	356.3	230.6	262.3	267.2	363.6	462.5	473.4	477.1	495.4
65°	301.4	197.7	302.5	209.9	236.7	238.0	327.0	417.3	427.1	433.2	446.5
67.5°	203.8	161.1	230.6	190.3	217.2	218.4	291.6	364.9	378.2	383.1	391.7
70°	141.5	107.3	170.8	169.6	195.2	197.7	253.8	317.2	329.5	333.1	337.9
72.5°	103.7	86.6	141.5	152.5	172.0	174.5	214.8	263.5	275.7	279.4	281.8
75°	79.3	91.5	114.7	133.0	146.5	147.6	175.7	214.8	223.3	225.7	227.0
77.5°	63.4	85.4	84.2	107.3	119.5	117.2	137.9	165.9	173.3	173.3	173.3
80°	47.6	67.1	63.4	76.9	87.9	85.4	98.8	118.3	120.8	123.3	122.0
82.5°	35.4	42.7	42.7	48.8	58.6	56.1	65.9	76.9	76.9	76.9	79.3
85°	21.9	24.4	19.6	25.7	32.9	31.7	36.6	41.5	42.7	42.7	40.3
87.5°	13.5	11.0	6.1	9.7	14.6	14.6	17.1	18.3	17.1	17.1	17.1
90°	9.7	6.7	3.7	6.7	9.7	10.5	16.5	24.5	28.5	25.3	19.0
92.5°	66.0	40.5	15.0	40.5	66.0	72.4	101.8	140.9	160.5	140.6	101.0
95°	129.4	82.7	36.0	82.7	129.4	141.0	250.3	396.1	469.1	418.6	317.6
97.5°	144.5	103.3	62.2	103.3	144.5	154.8	337.2	580.3	702.0	670.0	606.2
100°	157.1	119.8	82.5	119.8	157.1	166.5	368.9	638.7	773.6	775.9	780.6
102.5°	169.4	134.6	99.8	134.6	169.4	178.1	383.3	657.0	793.8	834.5	915.8
105°	188.0	158.5	129.0	158.5	188.0	195.4	394.1	659.1	791.6	882.7	1065.1
107.5°	213.9	186.5	159.0	186.5	213.9	220.9	396.1	629.7	746.5	873.7	1128.0
110°	229.0	204.0	179.2	204.0	229.0	235.1	393.1	603.7	709.1	851.2	1135.5



TEST NUMBER: P934246

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	246.4	222.8	199.1	222.8	246.4	252.3	393.2	581.1	675.0	820.4	1111.4
115°	272.8	251.0	229.1	251.0	272.8	278.3	396.9	555.1	634.1	774.3	1054.5
117.5°	298.4	278.5	258.7	278.5	298.4	303.4	404.2	538.7	605.9	732.4	985.4
120°	313.4	294.6	276.0	294.6	313.4	318.0	410.2	533.2	594.7	710.2	941.4
122.5°	330.5	311.6	292.8	311.6	330.5	335.2	418.8	530.3	586.1	690.1	898.4
125°	353.0	335.8	318.7	335.8	353.0	357.3	430.4	528.0	576.7	665.1	842.0
127.5°	374.3	357.0	339.7	357.0	374.3	378.7	442.1	526.6	568.8	644.8	796.6
130°	388.3	369.6	350.9	369.6	388.3	393.0	450.5	527.4	565.8	633.4	768.6
132.5°	400.0	381.2	362.6	381.2	400.0	404.6	457.5	528.0	563.2	623.7	744.7
135°	413.8	396.9	379.9	396.9	413.8	418.1	464.9	527.4	558.7	609.4	710.7
137.5°	431.2	414.3	397.5	414.3	431.2	435.4	476.2	530.7	558.0	600.8	686.5
140°	443.1	427.6	412.1	427.6	443.1	447.0	483.1	531.2	555.3	592.4	666.3
142.5°	452.0	437.6	423.3	437.6	452.0	455.5	488.8	533.1	555.3	587.8	652.8
145°	465.6	453.1	440.6	453.1	465.6	468.7	496.4	533.2	551.6	578.2	631.4
147.5°	482.2	470.0	457.8	470.0	482.2	485.2	507.3	536.9	551.6	572.5	614.3
150°	491.1	480.1	469.1	480.1	491.1	493.8	513.1	538.8	551.6	569.3	604.6
152.5°	497.4	489.1	480.7	489.1	497.4	499.5	516.9	540.1	551.6	566.7	596.8
155°	510.3	504.1	497.9	504.1	510.3	511.9	525.1	542.8	551.6	563.6	587.5
157.5°	522.7	516.7	510.7	516.7	522.7	524.2	533.3	545.5	551.6	560.9	579.5
160°	528.7	524.0	519.3	524.0	528.7	529.9	537.1	546.8	551.6	559.6	575.5
162.5°	535.0	531.5	528.0	531.5	535.0	535.9	541.1	548.1	551.6	558.3	571.9
165°	543.6	540.5	537.3	540.5	543.6	544.4	546.8	550.0	551.6	556.4	566.1
167.5°	549.0	547.4	546.0	547.4	549.0	549.3	551.3	554.0	555.3	558.5	564.9
170°	554.6	553.1	551.6	553.1	554.6	555.0	555.1	555.2	555.3	558.5	564.9
172.5°	555.2	555.0	554.6	555.0	555.2	555.3	555.3	555.3	555.3	557.9	562.9
175°	558.7	558.7	558.7	558.7	558.7	558.7	557.6	556.1	555.3	556.9	560.1
177.5°	558.7	558.7	558.7	558.7	558.7	558.7	557.8	556.6	556.1	557.3	559.8
180°	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7



TEST NUMBER: P934246

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1244.5	1240.8	1245.7	1232.3	1245.7	1240.8	1244.5	1253.0	1245.7	1250.6	1255.5
5°	1092.0	1085.9	1066.4	1050.5	1066.4	1085.9	1092.0	1117.6	1129.8	1151.8	1181.1
7.5°	976.0	971.2	966.3	956.6	966.3	971.2	976.0	983.4	995.6	1015.2	1037.1
10°	950.5	951.7	959.0	957.8	959.0	951.7	950.5	948.0	944.4	948.0	961.4
12.5°	1016.3	1027.3	1067.5	1065.2	1067.5	1027.3	1016.3	967.6	934.6	928.5	930.9
15°	1092.0	1095.7	1104.2	1105.4	1104.2	1095.7	1092.0	1072.5	973.7	930.9	917.6
17.5°	1099.3	1100.6	1106.7	1106.7	1106.7	1100.6	1099.3	1090.7	1057.8	1000.5	924.8
20°	1093.2	1095.7	1107.8	1110.3	1107.8	1095.7	1093.2	1082.2	1063.9	1043.2	985.9
22.5°	1090.7	1095.7	1105.4	1104.2	1105.4	1095.7	1090.7	1073.6	1057.8	1043.2	1020.0
25°	1078.6	1078.6	1079.8	1081.0	1079.8	1078.6	1078.6	1065.2	1033.4	1029.8	1016.3
27.5°	1052.9	1055.4	1062.7	1061.5	1062.7	1055.4	1052.9	1048.1	1013.9	1010.2	1000.5
30°	1029.8	1027.3	1021.2	1016.3	1021.2	1027.3	1029.8	1022.4	988.3	978.5	981.0
32.5°	990.7	984.6	978.5	974.9	978.5	984.6	990.7	988.3	962.7	949.2	951.7
35°	944.4	945.6	944.4	940.7	944.4	945.6	944.4	946.8	930.9	918.7	917.6
37.5°	911.5	913.8	912.6	907.7	912.6	913.8	911.5	909.0	887.0	883.3	885.8
40°	877.3	878.4	877.3	873.6	877.3	878.4	877.3	872.3	841.9	843.1	851.6
42.5°	844.3	843.1	839.4	837.0	839.4	843.1	844.3	837.0	797.9	794.3	810.1
45°	806.5	807.7	800.4	796.8	800.4	807.7	806.5	801.6	761.4	751.5	762.5
47.5°	768.6	768.6	762.5	758.9	762.5	768.6	768.6	762.5	719.9	710.1	716.2
50°	728.4	727.2	718.6	717.4	718.6	727.2	728.4	724.7	679.6	671.0	671.0
52.5°	682.0	682.0	683.2	685.7	683.2	682.0	682.0	683.2	643.0	634.5	632.0
55°	641.7	643.0	651.6	653.9	651.6	643.0	641.7	641.7	605.2	596.6	591.7
57.5°	600.3	600.3	606.4	606.4	606.4	600.3	600.3	597.8	562.4	555.2	552.7
60°	552.7	555.2	560.1	558.8	560.1	555.2	552.7	550.2	519.8	514.9	506.3
62.5°	502.7	505.1	506.3	503.9	506.3	505.1	502.7	495.4	477.1	473.4	462.5
65°	450.2	452.6	453.9	451.5	453.9	452.6	450.2	446.5	433.2	427.1	417.3
67.5°	396.5	395.3	394.1	399.0	394.1	395.3	396.5	391.7	383.1	378.2	364.9
70°	341.7	341.7	340.4	342.8	340.4	341.7	341.7	337.9	333.1	329.5	317.2
72.5°	283.1	281.8	286.7	283.1	286.7	281.8	283.1	281.8	279.4	275.7	263.5
75°	225.7	228.1	225.7	229.4	225.7	228.1	225.7	227.0	225.7	223.3	214.8
77.5°	172.0	174.5	172.0	172.0	172.0	174.5	172.0	173.3	173.3	173.3	165.9
80°	122.0	120.8	120.8	119.5	120.8	120.8	122.0	122.0	123.3	120.8	118.3
82.5°	78.0	76.9	76.9	79.3	76.9	76.9	78.0	79.3	76.9	76.9	76.9
85°	42.7	43.9	41.5	41.5	41.5	43.9	42.7	40.3	42.7	42.7	41.5
87.5°	15.8	14.6	14.6	14.6	14.6	14.6	15.8	17.1	17.1	17.1	18.3
90°	14.3	14.3	14.3	14.3	14.3	14.3	14.3	19.0	25.3	28.5	24.5
92.5°	71.2	68.4	57.0	45.8	57.0	68.4	71.2	101.0	140.6	160.5	140.9
95°	241.9	233.3	198.9	164.6	198.9	233.3	241.9	317.6	418.6	469.1	396.1
97.5°	558.3	542.0	476.6	411.3	476.6	542.0	558.3	606.2	670.0	702.0	580.3
100°	784.0	764.5	686.8	608.9	686.8	764.5	784.0	780.6	775.9	773.6	638.7
102.5°	976.8	960.1	893.4	826.8	893.4	960.1	976.8	915.8	834.5	793.8	657.0
105°	1201.8	1192.8	1157.0	1121.1	1157.0	1192.8	1201.8	1065.1	882.7	791.6	659.1
107.5°	1318.8	1321.0	1329.6	1338.3	1329.6	1321.0	1318.8	1128.0	873.7	746.5	629.7
110°	1348.7	1358.1	1395.4	1432.8	1395.4	1358.1	1348.7	1135.5	851.2	709.1	603.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1329.6	1344.0	1401.3	1458.6	1401.3	1344.0	1329.6	1111.4	820.4	675.0	581.1
115°	1264.8	1284.6	1364.1	1443.6	1364.1	1284.6	1264.8	1054.5	774.3	634.1	555.1
117.5°	1175.2	1197.2	1285.4	1373.6	1285.4	1197.2	1175.2	985.4	732.4	605.9	538.7
120°	1114.8	1136.1	1221.8	1307.5	1221.8	1136.1	1114.8	941.4	710.2	594.7	533.2
122.5°	1054.5	1075.6	1160.1	1244.6	1160.1	1075.6	1054.5	898.4	690.1	586.1	530.3
125°	974.6	994.1	1071.8	1149.7	1071.8	994.1	974.6	842.0	665.1	576.7	528.0
127.5°	910.5	926.8	992.5	1058.2	992.5	926.8	910.5	796.6	644.8	568.8	526.6
130°	869.9	885.1	945.7	1006.4	945.7	885.1	869.9	768.6	633.4	565.8	527.4
132.5°	835.4	849.0	903.4	957.7	903.4	849.0	835.4	744.7	623.7	563.2	528.0
135°	786.7	798.4	845.2	892.1	845.2	798.4	786.7	710.7	609.4	558.7	527.4
137.5°	750.7	760.3	798.7	837.0	798.7	760.3	750.7	686.5	600.8	558.0	530.7
140°	721.8	730.7	766.6	802.4	766.6	730.7	721.8	666.3	592.4	555.3	531.2
142.5°	701.6	709.3	740.1	770.9	740.1	709.3	701.6	652.8	587.8	555.3	533.1
145°	671.2	677.0	700.4	723.7	700.4	677.0	671.2	631.4	578.2	551.6	533.2
147.5°	645.7	650.5	669.9	689.2	669.9	650.5	645.7	614.3	572.5	551.6	536.9
150°	631.1	635.0	650.7	666.3	650.7	635.0	631.1	604.6	569.3	551.6	538.8
152.5°	619.5	622.5	634.3	646.1	634.3	622.5	619.5	596.8	566.7	551.6	540.1
155°	605.5	607.5	615.4	623.2	615.4	607.5	605.5	587.5	563.6	551.6	542.8
157.5°	593.5	594.9	600.5	605.9	600.5	594.9	593.5	579.5	560.9	551.6	545.5
160°	587.5	588.4	591.5	594.7	591.5	588.4	587.5	575.5	559.6	551.6	546.8
162.5°	582.0	582.7	585.7	588.7	585.7	582.7	582.0	571.9	558.3	551.6	548.1
165°	573.3	574.2	577.3	580.4	577.3	574.2	573.3	566.1	556.4	551.6	550.0
167.5°	569.6	570.0	571.3	572.6	571.3	570.0	569.6	564.9	558.5	555.3	554.0
170°	569.6	569.6	569.6	569.6	569.6	569.6	569.6	564.9	558.5	555.3	555.2
172.5°	566.6	566.3	565.2	564.0	565.2	566.3	566.6	562.9	557.9	555.3	555.3
175°	562.4	562.4	562.4	562.4	562.4	562.4	562.4	560.1	556.9	555.3	556.1
177.5°	561.7	561.3	560.1	558.7	560.1	561.3	561.7	559.8	557.3	556.1	556.6
180°	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7	558.7



TEST NUMBER: P934246

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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1289.7	1289.7	1289.7	1289.7	1289.7
2.5°	1273.8	1279.9	1283.6	1288.4	1300.6
5°	1225.0	1248.2	1255.5	1273.8	1295.8
7.5°	1117.6	1188.3	1207.9	1251.8	1286.0
10°	1013.9	1084.7	1118.9	1222.6	1273.8
12.5°	961.4	1003.0	1026.1	1171.3	1256.7
15°	928.5	957.8	974.9	1102.9	1237.2
17.5°	902.9	923.6	935.8	1035.9	1210.4
20°	887.0	896.8	907.7	987.0	1179.8
22.5°	876.1	870.0	878.4	952.9	1138.3
25°	868.7	845.5	855.3	926.1	1089.6
27.5°	874.8	823.6	827.2	901.6	1038.4
30°	876.1	796.8	797.9	876.1	981.0
32.5°	867.5	768.6	769.9	844.3	916.3
35°	846.8	735.7	734.5	807.7	828.4
37.5°	818.7	700.3	700.3	767.5	732.1
40°	784.6	664.9	668.6	715.0	646.7
42.5°	743.1	627.1	632.0	645.5	583.2
45°	697.9	590.5	594.2	545.4	534.4
47.5°	647.8	552.7	554.0	452.6	518.6
50°	588.1	513.7	508.8	388.0	517.3
52.5°	535.6	470.9	456.3	351.4	469.7
55°	484.4	425.8	394.1	323.3	435.5
57.5°	439.3	367.2	336.7	290.4	428.3
60°	397.8	309.9	286.7	255.0	392.9
62.5°	363.6	267.2	262.3	230.6	356.3
65°	327.0	238.0	236.7	209.9	302.5
67.5°	291.6	218.4	217.2	190.3	230.6
70°	253.8	197.7	195.2	169.6	170.8
72.5°	214.8	174.5	172.0	152.5	141.5
75°	175.7	147.6	146.5	133.0	114.7
77.5°	137.9	117.2	119.5	107.3	84.2
80°	98.8	85.4	87.9	76.9	63.4
82.5°	65.9	56.1	58.6	48.8	42.7
85°	36.6	31.7	32.9	25.7	19.6
87.5°	17.1	14.6	14.6	9.7	6.1
90°	16.5	10.5	9.7	6.7	3.7
92.5°	101.8	72.4	66.0	40.5	15.0
95°	250.3	141.0	129.4	82.7	36.0
97.5°	337.2	154.8	144.5	103.3	62.2
100°	368.9	166.5	157.1	119.8	82.5
102.5°	383.3	178.1	169.4	134.6	99.8
105°	394.1	195.4	188.0	158.5	129.0
107.5°	396.1	220.9	213.9	186.5	159.0
110°	393.1	235.1	229.0	204.0	179.2



TEST NUMBER: P934246

CATALOG NUMBER: SQ4-FA-050U-050D-92765-1D-UNV-STD-W-8-4000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	393.2	252.3	246.4	222.8	199.1
115°	396.9	278.3	272.8	251.0	229.1
117.5°	404.2	303.4	298.4	278.5	258.7
120°	410.2	318.0	313.4	294.6	276.0
122.5°	418.8	335.2	330.5	311.6	292.8
125°	430.4	357.3	353.0	335.8	318.7
127.5°	442.1	378.7	374.3	357.0	339.7
130°	450.5	393.0	388.3	369.6	350.9
132.5°	457.5	404.6	400.0	381.2	362.6
135°	464.9	418.1	413.8	396.9	379.9
137.5°	476.2	435.4	431.2	414.3	397.5
140°	483.1	447.0	443.1	427.6	412.1
142.5°	488.8	455.5	452.0	437.6	423.3
145°	496.4	468.7	465.6	453.1	440.6
147.5°	507.3	485.2	482.2	470.0	457.8
150°	513.1	493.8	491.1	480.1	469.1
152.5°	516.9	499.5	497.4	489.1	480.7
155°	525.1	511.9	510.3	504.1	497.9
157.5°	533.3	524.2	522.7	516.7	510.7
160°	537.1	529.9	528.7	524.0	519.3
162.5°	541.1	535.9	535.0	531.5	528.0
165°	546.8	544.4	543.6	540.5	537.3
167.5°	551.3	549.3	549.0	547.4	546.0
170°	555.1	555.0	554.6	553.1	551.6
172.5°	555.3	555.3	555.2	555.0	554.6
175°	557.6	558.7	558.7	558.7	558.7
177.5°	557.8	558.7	558.7	558.7	558.7
180°	558.7	558.7	558.7	558.7	558.7



TEST NUMBER: P934246  
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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	10.84	11.68	11.81	12.67	13.97	13.67	14.52	14.65	15.51	16.80
	3H	11.31	12.07	12.30	13.06	14.39	15.02	15.78	16.01	16.77	18.10
	4H	11.50	12.22	12.50	13.22	14.55	15.47	16.18	16.46	17.18	18.51
	6H	11.62	12.28	12.63	13.28	14.63	15.75	16.41	16.76	17.42	18.76
	8H	11.62	12.25	12.64	13.27	14.61	15.83	16.45	16.84	17.48	18.81
	12H	11.59	12.19	12.61	13.20	14.57	15.87	16.46	16.89	17.48	18.84
4H	2H	11.87	12.58	12.87	13.58	14.91	14.08	14.80	15.09	15.80	17.13
	3H	12.89	13.49	13.91	14.52	15.86	15.59	16.18	16.60	17.21	18.56
	4H	13.17	13.72	14.19	14.74	16.10	16.12	16.66	17.14	17.68	19.05
	6H	13.29	13.76	14.33	14.81	16.17	16.48	16.95	17.52	18.00	19.36
	8H	13.30	13.74	14.33	14.78	16.15	16.59	17.03	17.62	18.07	19.44
	12H	13.27	13.66	14.32	14.71	16.10	16.65	17.04	17.70	18.10	19.48
8H	4H	13.62	14.06	14.66	15.10	16.48	16.24	16.68	17.27	17.72	19.09
	6H	13.88	14.25	14.94	15.33	16.70	16.68	17.04	17.73	18.12	19.49
	8H	13.93	14.24	14.99	15.31	16.70	16.83	17.15	17.90	18.21	19.61
	12H	13.91	14.19	14.98	15.25	16.69	16.93	17.21	18.00	18.27	19.70
12H	4H	13.63	14.02	14.68	15.08	16.46	16.20	16.60	17.26	17.65	19.03
	6H	13.95	14.26	15.01	15.33	16.72	16.67	16.99	17.74	18.06	19.45
	8H	14.01	14.29	15.08	15.35	16.79	16.84	17.12	17.90	18.18	19.61