

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: P933843

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-2700K

Issue Date: 12/17/2024

**Test Information**

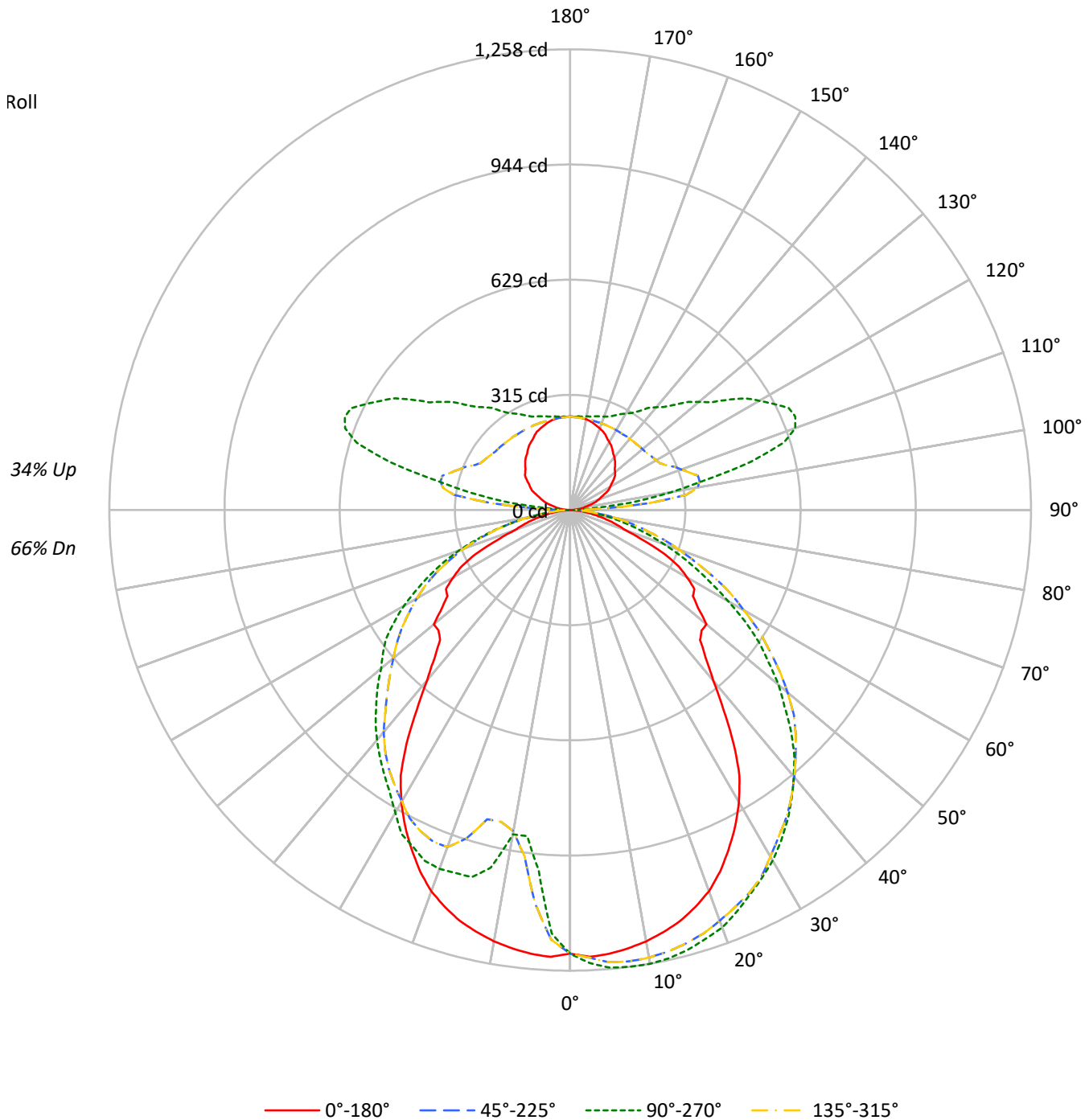
Test Method: LM-79-2019  
Report Number: P933843  
REPORT IS A COMBINATION OF REPORTS P933676 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-2700K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4793.4 lumens  
Efficiency: N/A  
Efficacy: 108.9 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 8' x H: 0.1')  
CIE Type: Semi-Direct  
  
Input Watts (W): 44  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-2700K

### Luminous Intensity Polar Plot





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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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	66			
1	101	97	93	89	95	91	88	85	81	78	76	71	69	68	62	61	60	55			
2	92	85	78	73	87	80	74	70	71	67	63	63	59	56	55	52	50	46			
3	84	75	67	61	79	70	64	58	63	57	53	55	51	48	49	46	43	39			
4	77	66	58	52	72	62	55	49	56	50	45	49	45	41	43	40	37	34			
5	71	59	50	44	66	56	48	43	50	44	39	44	39	35	39	35	32	29			
6	65	53	45	39	61	50	43	37	45	39	34	40	35	31	35	31	28	26			
7	60	48	40	34	57	45	38	33	41	35	30	36	31	28	32	28	25	23			
8	56	43	35	30	53	41	34	29	37	31	27	33	28	25	30	26	22	20			
9	52	40	32	27	49	38	31	26	34	28	24	31	26	22	27	23	20	18			
10	49	36	29	24	46	35	28	23	31	26	22	28	23	20	25	21	18	16			

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

	0°	90°	180°	270°
0°	5619	5619	5619	5619
5°	5660	5672	5660	4459
10°	5622	5587	5622	3994
15°	5561	5465	5561	4564
20°	5445	5322	5445	4573
25°	5207	5113	5207	4476
30°	4899	4940	4899	4264
35°	4368	4720	4368	4030
40°	3639	4461	3639	3853
45°	3252	4158	3252	3650
50°	3454	3798	3454	3446
55°	3250	3409	3250	3328
60°	3351	2895	3351	3048
65°	3038	2393	3038	2675
70°	2104	1907	2104	2242
75°	1845	1410	1845	1688
80°	1485	932	1485	1014
85°	857	494	857	419

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4984 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	109.3	2.3
10°-20°	310.4	6.5
20°-30°	479.8	10.0
30°-40°	572.7	11.9
40°-50°	576.1	12.0
50°-60°	501.3	10.5
60°-70°	355.4	7.4
70°-80°	188.0	3.9
80°-90°	47.8	1.0
90°-100°	124.3	2.6
100°-110°	326.7	6.8
110°-120°	338.8	7.1
120°-130°	271.7	5.7
130°-140°	213.2	4.4
140°-150°	163.7	3.4
150°-160°	117.8	2.5
160°-170°	72.1	1.5
170°-180°	24.4	0.5
0°-30°	899.4	18.8
0°-40°	1472.2	30.7
0°-60°	2549.5	53.2
0°-90°	3140.7	65.5
90°-120°	789.7	16.5
90°-150°	1438.3	30.0
90°-180°	1653.0	34.5
0°-180°	4793.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1211	1211	1211	1211	1211	
5°	1217	1254	1217	986	1217	115
15°	1162	1243	1162	1038	1162	327
25°	1023	1159	1023	1015	1023	470
35°	778	1034	778	883	778	481
45°	502	852	502	748	502	402
55°	409	629	409	614	409	376
65°	284	379	284	424	284	272
75°	108	180	108	215	108	113
85°	18	46	18	39	18	25
90°	2	6	2	6	2	2
95°	16	75	16	75	16	18
105°	59	512	59	512	59	62
115°	104	659	104	659	104	103
125°	146	525	146	525	146	129
135°	173	407	173	407	173	134
145°	201	330	201	330	201	126
155°	227	284	227	284	227	104
165°	245	265	245	265	245	69
175°	255	257	255	257	255	24
180°	255	255	255	255	255	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1221.2	1221.2	1228.2	1230.5	1230.5	1227.0	1223.5	1227.0	1237.3	1240.7	1239.6
5°	1216.7	1225.8	1238.5	1240.7	1243.0	1241.9	1239.6	1241.9	1253.3	1255.7	1256.8
7.5°	1207.5	1224.7	1240.7	1244.2	1247.6	1244.2	1243.0	1245.3	1256.8	1259.1	1259.1
10°	1196.0	1220.1	1238.5	1240.7	1244.2	1240.7	1240.7	1245.3	1256.8	1259.1	1260.2
12.5°	1180.0	1213.2	1230.5	1232.7	1237.3	1236.2	1235.0	1239.6	1251.0	1253.3	1253.3
15°	1161.7	1200.6	1216.7	1218.9	1227.0	1224.7	1224.7	1229.3	1241.9	1245.3	1244.2
17.5°	1136.5	1184.6	1203.0	1206.4	1212.1	1211.0	1212.1	1216.7	1228.2	1230.5	1231.6
20°	1107.8	1162.8	1184.6	1188.0	1193.7	1193.7	1193.7	1199.5	1211.0	1215.5	1215.5
22.5°	1068.9	1139.9	1162.8	1165.1	1172.0	1172.0	1174.3	1182.3	1192.6	1193.7	1193.7
25°	1023.1	1114.7	1134.2	1141.0	1147.9	1151.4	1154.8	1159.4	1162.8	1161.7	1162.8
27.5°	975.0	1082.6	1107.8	1112.4	1121.6	1125.1	1129.6	1130.8	1131.9	1135.3	1133.1
30°	921.1	1037.9	1075.8	1080.4	1095.2	1097.6	1092.9	1095.2	1101.0	1103.3	1105.6
32.5°	860.4	971.5	1042.5	1052.9	1066.6	1059.7	1058.6	1062.0	1071.2	1071.2	1073.5
35°	777.9	920.0	1011.6	1020.8	1031.1	1023.1	1027.7	1028.8	1034.5	1037.9	1036.8
37.5°	687.4	875.3	979.5	986.4	994.5	984.1	991.0	994.5	999.0	996.7	996.7
40°	607.2	805.4	941.8	946.3	953.2	945.2	952.0	954.3	956.6	954.3	953.2
42.5°	547.6	728.7	901.6	907.3	902.7	908.5	910.8	915.4	912.0	907.3	907.3
45°	501.8	708.0	858.1	865.0	858.1	867.3	870.7	870.7	860.4	858.1	856.9
47.5°	486.9	666.7	814.6	814.6	811.1	822.6	828.3	820.3	810.0	806.6	806.6
50°	485.7	621.0	755.0	750.4	766.4	780.2	774.4	766.4	758.4	745.8	745.8
52.5°	441.1	564.8	678.3	695.4	720.6	728.7	719.4	711.5	697.7	691.9	687.4
55°	409.0	506.4	608.3	642.7	669.0	679.4	662.2	654.2	633.5	630.1	627.8
57.5°	402.1	421.6	544.2	587.7	619.8	618.6	608.3	593.4	576.3	572.9	571.7
60°	368.9	304.8	475.4	527.0	560.2	556.8	547.6	533.8	517.9	515.6	513.2
62.5°	334.6	221.1	397.5	455.9	502.9	501.8	493.8	473.2	461.7	455.9	451.4
65°	284.1	185.6	283.0	379.2	446.8	449.1	431.9	417.0	404.4	397.5	396.4
67.5°	216.5	151.3	191.3	316.2	393.0	390.7	368.9	362.1	346.0	342.6	335.7
70°	160.4	100.8	132.9	256.7	340.3	334.6	317.3	309.4	294.4	286.4	281.9
72.5°	132.9	81.3	97.4	199.4	286.4	279.6	264.6	255.5	242.9	236.0	231.4
75°	107.7	85.9	74.5	147.8	232.6	228.0	214.2	205.1	194.7	185.6	186.7
77.5°	79.1	80.2	59.5	108.8	184.5	177.6	169.5	158.1	153.5	144.3	144.3
80°	59.5	63.0	44.7	74.5	132.9	132.9	126.0	118.0	110.0	105.4	105.4
82.5°	40.1	40.1	33.2	47.0	90.5	87.0	82.5	80.2	75.6	73.3	73.3
85°	18.4	22.9	20.6	28.6	49.3	51.6	51.6	49.3	48.1	45.9	47.0
87.5°	5.7	10.3	12.6	16.1	25.2	26.4	27.5	27.5	27.5	28.6	28.6
90°	1.7	3.1	4.4	4.8	7.5	11.2	13.0	11.5	8.6	6.5	6.5
92.5°	6.8	18.4	30.2	33.1	46.5	64.3	73.2	64.1	46.1	32.5	31.3
95°	16.4	37.7	59.0	64.3	114.2	180.7	214.0	191.0	144.9	110.4	106.4
97.5°	28.4	47.2	65.9	70.6	153.8	264.8	320.3	305.8	276.7	254.8	247.4
100°	37.7	54.7	71.7	75.9	168.3	291.3	352.9	354.0	356.2	357.8	348.9
102.5°	45.5	61.4	77.3	81.2	174.9	299.8	362.2	380.8	417.8	445.7	438.1
105°	58.8	72.3	85.8	89.2	179.9	300.7	361.2	402.8	486.0	548.4	544.3
107.5°	72.5	85.1	97.6	100.8	180.7	287.3	340.6	398.6	514.7	601.7	602.8
110°	81.8	93.1	104.5	107.3	179.4	275.5	323.5	388.4	518.1	615.4	619.7



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	90.9	101.6	112.4	115.1	179.5	265.1	308.0	374.4	507.1	606.7	613.3
115°	104.5	114.5	124.4	126.9	181.1	253.2	289.3	353.3	481.2	577.1	586.2
117.5°	118.0	127.1	136.1	138.5	184.5	245.8	276.5	334.2	449.6	536.2	546.3
120°	125.9	134.4	143.0	145.1	187.2	243.3	271.4	324.1	429.5	508.6	518.4
122.5°	133.6	142.2	150.8	153.0	191.2	242.0	267.4	314.9	409.9	481.1	490.8
125°	145.5	153.3	161.1	163.1	196.4	240.9	263.2	303.5	384.2	444.7	453.5
127.5°	155.0	162.9	170.8	172.8	201.7	240.3	259.6	294.2	363.5	415.4	423.0
130°	160.1	168.7	177.1	179.3	205.6	240.7	258.2	289.0	350.7	396.9	403.8
132.5°	165.4	174.0	182.4	184.6	208.7	240.9	257.0	284.6	339.8	381.2	387.4
135°	173.3	181.1	188.8	190.8	212.2	240.7	255.0	278.1	324.3	359.0	364.3
137.5°	181.3	189.0	196.7	198.7	217.3	242.1	254.6	274.2	313.2	342.5	346.9
140°	188.0	195.1	202.2	204.0	220.5	242.4	253.4	270.3	304.1	329.4	333.5
142.5°	193.2	199.7	206.3	207.9	223.1	243.3	253.4	268.3	297.9	320.1	323.6
145°	201.1	206.8	212.4	213.9	226.5	243.3	251.7	263.8	288.1	306.3	308.9
147.5°	208.9	214.5	220.0	221.4	231.5	245.0	251.7	261.3	280.3	294.6	296.8
150°	214.0	219.1	224.0	225.3	234.1	245.8	251.7	259.7	275.9	287.9	289.7
152.5°	219.3	223.1	226.9	227.9	235.8	246.4	251.7	258.5	272.3	282.6	284.0
155°	227.2	230.0	232.8	233.5	239.6	247.7	251.7	257.2	268.1	276.3	277.2
157.5°	233.0	235.7	238.5	239.2	243.3	248.9	251.7	256.0	264.4	270.8	271.4
160°	236.9	239.1	241.2	241.7	245.0	249.5	251.7	255.4	262.6	268.1	268.5
162.5°	240.9	242.5	244.0	244.5	246.8	250.1	251.7	254.8	260.9	265.5	265.9
165°	245.2	246.7	248.1	248.5	249.6	251.0	251.7	253.9	258.3	261.6	262.0
167.5°	249.1	249.8	250.5	250.7	251.6	252.8	253.4	254.9	257.8	259.9	260.1
170°	251.7	252.4	253.1	253.2	253.3	253.4	253.4	254.9	257.8	259.9	259.9
172.5°	253.1	253.2	253.4	253.4	253.4	253.4	253.4	254.5	256.8	258.5	258.4
175°	255.0	255.0	255.0	255.0	254.4	253.8	253.4	254.1	255.6	256.7	256.7
177.5°	255.0	255.0	255.0	255.0	254.5	254.0	253.8	254.4	255.5	256.3	256.2
180°	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1241.9	1238.5	1241.9	1239.6	1240.7	1237.3	1227.0	1223.5	1227.0	1230.5	1230.5
5°	1256.8	1254.5	1256.8	1256.8	1255.7	1253.3	1241.9	1239.6	1241.9	1243.0	1240.7
7.5°	1261.4	1258.0	1261.4	1259.1	1259.1	1256.8	1245.3	1243.0	1244.2	1247.6	1244.2
10°	1261.4	1258.0	1261.4	1260.2	1259.1	1256.8	1245.3	1240.7	1240.7	1244.2	1240.7
12.5°	1255.7	1253.3	1255.7	1253.3	1253.3	1251.0	1239.6	1235.0	1236.2	1237.3	1232.7
15°	1246.4	1243.0	1246.4	1244.2	1245.3	1241.9	1229.3	1224.7	1224.7	1227.0	1218.9
17.5°	1232.7	1228.2	1232.7	1231.6	1230.5	1228.2	1216.7	1212.1	1211.0	1212.1	1206.4
20°	1216.7	1213.2	1216.7	1215.5	1215.5	1211.0	1199.5	1193.7	1193.7	1193.7	1188.0
22.5°	1191.5	1188.0	1191.5	1193.7	1193.7	1192.6	1182.3	1174.3	1172.0	1172.0	1165.1
25°	1162.8	1159.4	1162.8	1162.8	1161.7	1162.8	1159.4	1154.8	1151.4	1147.9	1141.0
27.5°	1135.3	1133.1	1135.3	1133.1	1135.3	1131.9	1130.8	1129.6	1125.1	1121.6	1112.4
30°	1107.8	1105.6	1107.8	1105.6	1103.3	1101.0	1095.2	1092.9	1097.6	1095.2	1080.4
32.5°	1073.5	1071.2	1073.5	1073.5	1071.2	1071.2	1062.0	1058.6	1059.7	1066.6	1052.9
35°	1037.9	1034.5	1037.9	1036.8	1037.9	1034.5	1028.8	1027.7	1023.1	1031.1	1020.8
37.5°	996.7	993.3	996.7	996.7	996.7	999.0	994.5	991.0	984.1	994.5	986.4
40°	954.3	949.7	954.3	953.2	954.3	956.6	954.3	952.0	945.2	953.2	946.3
42.5°	906.2	905.0	906.2	907.3	907.3	912.0	915.4	910.8	908.5	902.7	907.3
45°	854.6	852.3	854.6	856.9	858.1	860.4	870.7	870.7	867.3	858.1	865.0
47.5°	799.6	793.9	799.6	806.6	806.6	810.0	820.3	828.3	822.6	811.1	814.6
50°	741.2	742.4	741.2	745.8	745.8	758.4	766.4	774.4	780.2	766.4	750.4
52.5°	684.0	682.8	684.0	687.4	691.9	697.7	711.5	719.4	728.7	720.6	695.4
55°	626.7	629.0	626.7	627.8	630.1	633.5	654.2	662.2	679.4	669.0	642.7
57.5°	569.4	565.9	569.4	571.7	572.9	576.3	593.4	608.3	618.6	619.8	587.7
60°	502.9	498.4	502.9	513.2	515.6	517.9	533.8	547.6	556.8	560.2	527.0
62.5°	444.5	436.5	444.5	451.4	455.9	461.7	473.2	493.8	501.8	502.9	455.9
65°	382.6	379.2	382.6	396.4	397.5	404.4	417.0	431.9	449.1	446.8	379.2
67.5°	326.5	326.5	326.5	335.7	342.6	346.0	362.1	368.9	390.7	393.0	316.2
70°	274.9	273.8	274.9	281.9	286.4	294.4	309.4	317.3	334.6	340.3	256.7
72.5°	225.7	224.6	225.7	231.4	236.0	242.9	255.5	264.6	279.6	286.4	199.4
75°	182.2	179.9	182.2	186.7	185.6	194.7	205.1	214.2	228.0	232.6	147.8
77.5°	139.7	139.7	139.7	144.3	144.3	153.5	158.1	169.5	177.6	184.5	108.8
80°	104.3	103.1	104.3	105.4	105.4	110.0	118.0	126.0	132.9	132.9	74.5
82.5°	73.3	71.1	73.3	73.3	73.3	75.6	80.2	82.5	87.0	90.5	47.0
85°	45.9	45.9	45.9	47.0	45.9	48.1	49.3	51.6	51.6	49.3	28.6
87.5°	29.8	28.6	29.8	28.6	28.6	27.5	27.5	27.5	26.4	25.2	16.1
90°	6.5	6.5	6.5	6.5	6.5	8.6	11.5	13.0	11.2	7.5	4.8
92.5°	26.1	20.8	26.1	31.3	32.5	46.1	64.1	73.2	64.3	46.5	33.1
95°	90.8	75.1	90.8	106.4	110.4	144.9	191.0	214.0	180.7	114.2	64.3
97.5°	217.5	187.7	217.5	247.4	254.8	276.7	305.8	320.3	264.8	153.8	70.6
100°	313.4	277.8	313.4	348.9	357.8	356.2	354.0	352.9	291.3	168.3	75.9
102.5°	407.7	377.3	407.7	438.1	445.7	417.8	380.8	362.2	299.8	174.9	81.2
105°	527.9	511.5	527.9	544.3	548.4	486.0	402.8	361.2	300.7	179.9	89.2
107.5°	606.7	610.6	606.7	602.8	601.7	514.7	398.6	340.6	287.3	180.7	100.8
110°	636.7	653.7	636.7	619.7	615.4	518.1	388.4	323.5	275.5	179.4	107.3





TEST NUMBER: P933843

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-2700K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	639.4	665.5	639.4	613.3	606.7	507.1	374.4	308.0	265.1	179.5	115.1
115°	622.5	658.7	622.5	586.2	577.1	481.2	353.3	289.3	253.2	181.1	126.9
117.5°	586.5	626.8	586.5	546.3	536.2	449.6	334.2	276.5	245.8	184.5	138.5
120°	557.5	596.6	557.5	518.4	508.6	429.5	324.1	271.4	243.3	187.2	145.1
122.5°	529.3	567.8	529.3	490.8	481.1	409.9	314.9	267.4	242.0	191.2	153.0
125°	489.1	524.6	489.1	453.5	444.7	384.2	303.5	263.2	240.9	196.4	163.1
127.5°	452.9	482.8	452.9	423.0	415.4	363.5	294.2	259.6	240.3	201.7	172.8
130°	431.5	459.2	431.5	403.8	396.9	350.7	289.0	258.2	240.7	205.6	179.3
132.5°	412.2	437.0	412.2	387.4	381.2	339.8	284.6	257.0	240.9	208.7	184.6
135°	385.6	407.0	385.6	364.3	359.0	324.3	278.1	255.0	240.7	212.2	190.8
137.5°	364.4	381.9	364.4	346.9	342.5	313.2	274.2	254.6	242.1	217.3	198.7
140°	349.8	366.2	349.8	333.5	329.4	304.1	270.3	253.4	242.4	220.5	204.0
142.5°	337.7	351.7	337.7	323.6	320.1	297.9	268.3	253.4	243.3	223.1	207.9
145°	319.6	330.2	319.6	308.9	306.3	288.1	263.8	251.7	243.3	226.5	213.9
147.5°	305.6	314.5	305.6	296.8	294.6	280.3	261.3	251.7	245.0	231.5	221.4
150°	296.9	304.1	296.9	289.7	287.9	275.9	259.7	251.7	245.8	234.1	225.3
152.5°	289.4	294.8	289.4	284.0	282.6	272.3	258.5	251.7	246.4	235.8	227.9
155°	280.8	284.3	280.8	277.2	276.3	268.1	257.2	251.7	247.7	239.6	233.5
157.5°	274.0	276.5	274.0	271.4	270.8	264.4	256.0	251.7	248.9	243.3	239.2
160°	269.9	271.4	269.9	268.5	268.1	262.6	255.4	251.7	249.5	245.0	241.7
162.5°	267.3	268.6	267.3	265.9	265.5	260.9	254.8	251.7	250.1	246.8	244.5
165°	263.4	264.9	263.4	262.0	261.6	258.3	253.9	251.7	251.0	249.6	248.5
167.5°	260.7	261.3	260.7	260.1	259.9	257.8	254.9	253.4	252.8	251.6	250.7
170°	259.9	259.9	259.9	259.9	259.9	257.8	254.9	253.4	253.4	253.3	253.2
172.5°	257.9	257.3	257.9	258.4	258.5	256.8	254.5	253.4	253.4	253.4	253.4
175°	256.7	256.7	256.7	256.7	256.7	255.6	254.1	253.4	253.8	254.4	255.0
177.5°	255.6	255.0	255.6	256.2	256.3	255.5	254.4	253.8	254.0	254.5	255.0
180°	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0



TEST NUMBER: P933843

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1228.2	1221.2	1221.2	1209.8	1205.3	1201.8	1196.0	1178.9	1174.3	1169.7	1176.6
5°	1238.5	1225.8	1216.7	1196.0	1178.9	1172.0	1150.3	1109.0	1081.5	1060.8	1049.4
7.5°	1240.7	1224.7	1207.5	1175.5	1134.2	1115.8	1049.4	973.8	953.2	934.8	923.4
10°	1238.5	1220.1	1196.0	1147.9	1050.6	1018.5	952.0	902.7	890.2	886.8	890.2
12.5°	1230.5	1213.2	1180.0	1099.9	963.5	941.8	902.7	874.1	871.8	877.5	908.5
15°	1216.7	1200.6	1161.7	1035.6	915.4	899.3	871.8	861.6	874.1	914.3	1007.0
17.5°	1203.0	1184.6	1136.5	972.7	878.7	867.3	847.8	868.4	939.5	993.3	1024.2
20°	1184.6	1162.8	1107.8	926.8	852.3	842.1	832.9	925.7	979.5	999.0	1016.2
22.5°	1162.8	1139.9	1068.9	894.8	824.8	816.9	822.6	957.7	979.5	993.3	1008.1
25°	1134.2	1114.7	1023.1	869.6	803.1	793.9	815.7	954.3	967.0	970.4	1000.2
27.5°	1107.8	1082.6	975.0	846.6	776.7	773.3	821.4	939.5	948.6	952.0	984.1
30°	1075.8	1037.9	921.1	822.6	749.2	748.1	822.6	921.1	918.8	928.0	960.0
32.5°	1042.5	971.5	860.4	792.8	722.9	721.7	814.6	893.6	891.3	903.9	928.0
35°	1011.6	920.0	777.9	758.4	689.7	690.8	795.1	861.6	862.7	874.1	889.1
37.5°	979.5	875.3	687.4	720.6	657.6	657.6	768.7	831.7	829.4	832.9	853.5
40°	941.8	805.4	607.2	671.3	627.8	624.4	736.7	799.6	791.6	790.5	819.1
42.5°	901.6	728.7	547.6	606.1	593.4	588.8	697.7	760.7	745.8	749.2	785.9
45°	858.1	708.0	501.8	512.1	557.9	554.5	655.3	716.0	705.7	714.9	752.7
47.5°	814.6	666.7	486.9	425.0	520.2	519.0	608.3	672.5	666.7	676.0	716.0
50°	755.0	621.0	485.7	364.3	477.7	482.3	552.2	630.1	630.1	638.1	680.5
52.5°	678.3	564.8	441.1	329.9	428.4	442.2	502.9	593.4	595.8	603.8	641.5
55°	608.3	506.4	409.0	303.6	370.0	399.8	454.8	555.6	560.2	568.3	602.6
57.5°	544.2	421.6	402.1	272.6	316.2	344.8	412.5	519.0	521.3	528.1	561.3
60°	475.4	304.8	368.9	239.4	269.2	291.0	373.5	475.4	483.4	488.0	516.7
62.5°	397.5	221.1	334.6	216.5	246.3	250.9	341.4	434.2	444.5	448.0	465.2
65°	283.0	185.6	284.1	197.0	222.2	223.4	307.1	391.8	401.0	406.7	419.3
67.5°	191.3	151.3	216.5	178.7	204.0	205.1	273.8	342.6	355.1	359.8	367.8
70°	132.9	100.8	160.4	159.2	183.3	185.6	238.3	297.8	309.4	312.8	317.3
72.5°	97.4	81.3	132.9	143.2	161.5	163.8	201.7	247.4	258.9	262.4	264.6
75°	74.5	85.9	107.7	124.9	137.5	138.6	164.9	201.7	209.7	211.9	213.1
77.5°	59.5	80.2	79.1	100.8	112.2	110.0	129.5	155.8	162.7	162.7	162.7
80°	44.7	63.0	59.5	72.2	82.5	80.2	92.8	111.1	113.4	115.7	114.5
82.5°	33.2	40.1	40.1	45.9	55.0	52.7	61.8	72.2	72.2	72.2	74.5
85°	20.6	22.9	18.4	24.1	30.9	29.8	34.3	38.9	40.1	40.1	37.8
87.5°	12.6	10.3	5.7	9.1	13.8	13.8	16.1	17.2	16.1	16.1	16.1
90°	4.4	3.1	1.7	3.1	4.4	4.8	7.5	11.2	13.0	11.5	8.6
92.5°	30.2	18.4	6.8	18.4	30.2	33.1	46.5	64.3	73.2	64.1	46.1
95°	59.0	37.7	16.4	37.7	59.0	64.3	114.2	180.7	214.0	191.0	144.9
97.5°	65.9	47.2	28.4	47.2	65.9	70.6	153.8	264.8	320.3	305.8	276.7
100°	71.7	54.7	37.7	54.7	71.7	75.9	168.3	291.3	352.9	354.0	356.2
102.5°	77.3	61.4	45.5	61.4	77.3	81.2	174.9	299.8	362.2	380.8	417.8
105°	85.8	72.3	58.8	72.3	85.8	89.2	179.9	300.7	361.2	402.8	486.0
107.5°	97.6	85.1	72.5	85.1	97.6	100.8	180.7	287.3	340.6	398.6	514.7
110°	104.5	93.1	81.8	93.1	104.5	107.3	179.4	275.5	323.5	388.4	518.1



TEST NUMBER: P933843

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-2700K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	112.4	101.6	90.9	101.6	112.4	115.1	179.5	265.1	308.0	374.4	507.1
115°	124.4	114.5	104.5	114.5	124.4	126.9	181.1	253.2	289.3	353.3	481.2
117.5°	136.1	127.1	118.0	127.1	136.1	138.5	184.5	245.8	276.5	334.2	449.6
120°	143.0	134.4	125.9	134.4	143.0	145.1	187.2	243.3	271.4	324.1	429.5
122.5°	150.8	142.2	133.6	142.2	150.8	153.0	191.2	242.0	267.4	314.9	409.9
125°	161.1	153.3	145.5	153.3	161.1	163.1	196.4	240.9	263.2	303.5	384.2
127.5°	170.8	162.9	155.0	162.9	170.8	172.8	201.7	240.3	259.6	294.2	363.5
130°	177.1	168.7	160.1	168.7	177.1	179.3	205.6	240.7	258.2	289.0	350.7
132.5°	182.4	174.0	165.4	174.0	182.4	184.6	208.7	240.9	257.0	284.6	339.8
135°	188.8	181.1	173.3	181.1	188.8	190.8	212.2	240.7	255.0	278.1	324.3
137.5°	196.7	189.0	181.3	189.0	196.7	198.7	217.3	242.1	254.6	274.2	313.2
140°	202.2	195.1	188.0	195.1	202.2	204.0	220.5	242.4	253.4	270.3	304.1
142.5°	206.3	199.7	193.2	199.7	206.3	207.9	223.1	243.3	253.4	268.3	297.9
145°	212.4	206.8	201.1	206.8	212.4	213.9	226.5	243.3	251.7	263.8	288.1
147.5°	220.0	214.5	208.9	214.5	220.0	221.4	231.5	245.0	251.7	261.3	280.3
150°	224.0	219.1	214.0	219.1	224.0	225.3	234.1	245.8	251.7	259.7	275.9
152.5°	226.9	223.1	219.3	223.1	226.9	227.9	235.8	246.4	251.7	258.5	272.3
155°	232.8	230.0	227.2	230.0	232.8	233.5	239.6	247.7	251.7	257.2	268.1
157.5°	238.5	235.7	233.0	235.7	238.5	239.2	243.3	248.9	251.7	256.0	264.4
160°	241.2	239.1	236.9	239.1	241.2	241.7	245.0	249.5	251.7	255.4	262.6
162.5°	244.0	242.5	240.9	242.5	244.0	244.5	246.8	250.1	251.7	254.8	260.9
165°	248.1	246.7	245.2	246.7	248.1	248.5	249.6	251.0	251.7	253.9	258.3
167.5°	250.5	249.8	249.1	249.8	250.5	250.7	251.6	252.8	253.4	254.9	257.8
170°	253.1	252.4	251.7	252.4	253.1	253.2	253.3	253.4	253.4	254.9	257.8
172.5°	253.4	253.2	253.1	253.2	253.4	253.4	253.4	253.4	253.4	254.5	256.8
175°	255.0	255.0	255.0	255.0	255.0	255.0	254.4	253.8	253.4	254.1	255.6
177.5°	255.0	255.0	255.0	255.0	255.0	255.0	254.5	254.0	253.8	254.4	255.5
180°	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0



TEST NUMBER: P933843

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-2700K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1168.5	1165.1	1169.7	1157.1	1169.7	1165.1	1168.5	1176.6	1169.7	1174.3	1178.9
5°	1025.4	1019.7	1001.3	986.4	1001.3	1019.7	1025.4	1049.4	1060.8	1081.5	1109.0
7.5°	916.5	912.0	907.3	898.2	907.3	912.0	916.5	923.4	934.8	953.2	973.8
10°	892.5	893.6	900.5	899.3	900.5	893.6	892.5	890.2	886.8	890.2	902.7
12.5°	954.3	964.7	1002.4	1000.2	1002.4	964.7	954.3	908.5	877.5	871.8	874.1
15°	1025.4	1028.8	1036.8	1037.9	1036.8	1028.8	1025.4	1007.0	914.3	874.1	861.6
17.5°	1032.2	1033.4	1039.1	1039.1	1039.1	1033.4	1032.2	1024.2	993.3	939.5	868.4
20°	1026.5	1028.8	1040.2	1042.5	1040.2	1028.8	1026.5	1016.2	999.0	979.5	925.7
22.5°	1024.2	1028.8	1037.9	1036.8	1037.9	1028.8	1024.2	1008.1	993.3	979.5	957.7
25°	1012.7	1012.7	1013.9	1015.0	1013.9	1012.7	1012.7	1000.2	970.4	967.0	954.3
27.5°	988.7	991.0	997.9	996.7	997.9	991.0	988.7	984.1	952.0	948.6	939.5
30°	967.0	964.7	958.9	954.3	958.9	964.7	967.0	960.0	928.0	918.8	921.1
32.5°	930.2	924.5	918.8	915.4	918.8	924.5	930.2	928.0	903.9	891.3	893.6
35°	886.8	887.9	886.8	883.3	886.8	887.9	886.8	889.1	874.1	862.7	861.6
37.5°	855.8	858.1	856.9	852.3	856.9	858.1	855.8	853.5	832.9	829.4	831.7
40°	823.7	824.8	823.7	820.3	823.7	824.8	823.7	819.1	790.5	791.6	799.6
42.5°	792.8	791.6	788.2	785.9	788.2	791.6	792.8	785.9	749.2	745.8	760.7
45°	757.3	758.4	751.5	748.1	751.5	758.4	757.3	752.7	714.9	705.7	716.0
47.5°	721.7	721.7	716.0	712.6	716.0	721.7	721.7	716.0	676.0	666.7	672.5
50°	684.0	682.8	674.8	673.7	674.8	682.8	684.0	680.5	638.1	630.1	630.1
52.5°	640.4	640.4	641.5	643.8	641.5	640.4	640.4	641.5	603.8	595.8	593.4
55°	602.6	603.8	611.8	614.0	611.8	603.8	602.6	602.6	568.3	560.2	555.6
57.5°	563.6	563.6	569.4	569.4	569.4	563.6	563.6	561.3	528.1	521.3	519.0
60°	519.0	521.3	525.9	524.7	525.9	521.3	519.0	516.7	488.0	483.4	475.4
62.5°	472.0	474.3	475.4	473.2	475.4	474.3	472.0	465.2	448.0	444.5	434.2
65°	422.7	425.0	426.2	423.9	426.2	425.0	422.7	419.3	406.7	401.0	391.8
67.5°	372.3	371.2	370.0	374.6	370.0	371.2	372.3	367.8	359.8	355.1	342.6
70°	320.8	320.8	319.6	321.9	319.6	320.8	320.8	317.3	312.8	309.4	297.8
72.5°	265.8	264.6	269.2	265.8	269.2	264.6	265.8	264.6	262.4	258.9	247.4
75°	211.9	214.2	211.9	215.4	211.9	214.2	211.9	213.1	211.9	209.7	201.7
77.5°	161.5	163.8	161.5	161.5	161.5	163.8	161.5	162.7	162.7	162.7	155.8
80°	114.5	113.4	113.4	112.2	113.4	113.4	114.5	114.5	115.7	113.4	111.1
82.5°	73.3	72.2	72.2	74.5	72.2	72.2	73.3	74.5	72.2	72.2	72.2
85°	40.1	41.3	38.9	38.9	38.9	41.3	40.1	37.8	40.1	40.1	38.9
87.5°	14.9	13.8	13.8	13.8	13.8	13.8	14.9	16.1	16.1	16.1	17.2
90°	6.5	6.5	6.5	6.5	6.5	6.5	6.5	8.6	11.5	13.0	11.2
92.5°	32.5	31.3	26.1	20.8	26.1	31.3	32.5	46.1	64.1	73.2	64.3
95°	110.4	106.4	90.8	75.1	90.8	106.4	110.4	144.9	191.0	214.0	180.7
97.5°	254.8	247.4	217.5	187.7	217.5	247.4	254.8	276.7	305.8	320.3	264.8
100°	357.8	348.9	313.4	277.8	313.4	348.9	357.8	356.2	354.0	352.9	291.3
102.5°	445.7	438.1	407.7	377.3	407.7	438.1	445.7	417.8	380.8	362.2	299.8
105°	548.4	544.3	527.9	511.5	527.9	544.3	548.4	486.0	402.8	361.2	300.7
107.5°	601.7	602.8	606.7	610.6	606.7	602.8	601.7	514.7	398.6	340.6	287.3
110°	615.4	619.7	636.7	653.7	636.7	619.7	615.4	518.1	388.4	323.5	275.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	606.7	613.3	639.4	665.5	639.4	613.3	606.7	507.1	374.4	308.0	265.1
115°	577.1	586.2	622.5	658.7	622.5	586.2	577.1	481.2	353.3	289.3	253.2
117.5°	536.2	546.3	586.5	626.8	586.5	546.3	536.2	449.6	334.2	276.5	245.8
120°	508.6	518.4	557.5	596.6	557.5	518.4	508.6	429.5	324.1	271.4	243.3
122.5°	481.1	490.8	529.3	567.8	529.3	490.8	481.1	409.9	314.9	267.4	242.0
125°	444.7	453.5	489.1	524.6	489.1	453.5	444.7	384.2	303.5	263.2	240.9
127.5°	415.4	423.0	452.9	482.8	452.9	423.0	415.4	363.5	294.2	259.6	240.3
130°	396.9	403.8	431.5	459.2	431.5	403.8	396.9	350.7	289.0	258.2	240.7
132.5°	381.2	387.4	412.2	437.0	412.2	387.4	381.2	339.8	284.6	257.0	240.9
135°	359.0	364.3	385.6	407.0	385.6	364.3	359.0	324.3	278.1	255.0	240.7
137.5°	342.5	346.9	364.4	381.9	364.4	346.9	342.5	313.2	274.2	254.6	242.1
140°	329.4	333.5	349.8	366.2	349.8	333.5	329.4	304.1	270.3	253.4	242.4
142.5°	320.1	323.6	337.7	351.7	337.7	323.6	320.1	297.9	268.3	253.4	243.3
145°	306.3	308.9	319.6	330.2	319.6	308.9	306.3	288.1	263.8	251.7	243.3
147.5°	294.6	296.8	305.6	314.5	305.6	296.8	294.6	280.3	261.3	251.7	245.0
150°	287.9	289.7	296.9	304.1	296.9	289.7	287.9	275.9	259.7	251.7	245.8
152.5°	282.6	284.0	289.4	294.8	289.4	284.0	282.6	272.3	258.5	251.7	246.4
155°	276.3	277.2	280.8	284.3	280.8	277.2	276.3	268.1	257.2	251.7	247.7
157.5°	270.8	271.4	274.0	276.5	274.0	271.4	270.8	264.4	256.0	251.7	248.9
160°	268.1	268.5	269.9	271.4	269.9	268.5	268.1	262.6	255.4	251.7	249.5
162.5°	265.5	265.9	267.3	268.6	267.3	265.9	265.5	260.9	254.8	251.7	250.1
165°	261.6	262.0	263.4	264.9	263.4	262.0	261.6	258.3	253.9	251.7	251.0
167.5°	259.9	260.1	260.7	261.3	260.7	260.1	259.9	257.8	254.9	253.4	252.8
170°	259.9	259.9	259.9	259.9	259.9	259.9	259.9	257.8	254.9	253.4	253.4
172.5°	258.5	258.4	257.9	257.3	257.9	258.4	258.5	256.8	254.5	253.4	253.4
175°	256.7	256.7	256.7	256.7	256.7	256.7	256.7	255.6	254.1	253.4	253.8
177.5°	256.3	256.2	255.6	255.0	255.6	256.2	256.3	255.5	254.4	253.8	254.0
180°	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0	255.0



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1211.0	1211.0	1211.0	1211.0	1211.0
2.5°	1196.0	1201.8	1205.3	1209.8	1221.2
5°	1150.3	1172.0	1178.9	1196.0	1216.7
7.5°	1049.4	1115.8	1134.2	1175.5	1207.5
10°	952.0	1018.5	1050.6	1147.9	1196.0
12.5°	902.7	941.8	963.5	1099.9	1180.0
15°	871.8	899.3	915.4	1035.6	1161.7
17.5°	847.8	867.3	878.7	972.7	1136.5
20°	832.9	842.1	852.3	926.8	1107.8
22.5°	822.6	816.9	824.8	894.8	1068.9
25°	815.7	793.9	803.1	869.6	1023.1
27.5°	821.4	773.3	776.7	846.6	975.0
30°	822.6	748.1	749.2	822.6	921.1
32.5°	814.6	721.7	722.9	792.8	860.4
35°	795.1	690.8	689.7	758.4	777.9
37.5°	768.7	657.6	657.6	720.6	687.4
40°	736.7	624.4	627.8	671.3	607.2
42.5°	697.7	588.8	593.4	606.1	547.6
45°	655.3	554.5	557.9	512.1	501.8
47.5°	608.3	519.0	520.2	425.0	486.9
50°	552.2	482.3	477.7	364.3	485.7
52.5°	502.9	442.2	428.4	329.9	441.1
55°	454.8	399.8	370.0	303.6	409.0
57.5°	412.5	344.8	316.2	272.6	402.1
60°	373.5	291.0	269.2	239.4	368.9
62.5°	341.4	250.9	246.3	216.5	334.6
65°	307.1	223.4	222.2	197.0	284.1
67.5°	273.8	205.1	204.0	178.7	216.5
70°	238.3	185.6	183.3	159.2	160.4
72.5°	201.7	163.8	161.5	143.2	132.9
75°	164.9	138.6	137.5	124.9	107.7
77.5°	129.5	110.0	112.2	100.8	79.1
80°	92.8	80.2	82.5	72.2	59.5
82.5°	61.8	52.7	55.0	45.9	40.1
85°	34.3	29.8	30.9	24.1	18.4
87.5°	16.1	13.8	13.8	9.1	5.7
90°	7.5	4.8	4.4	3.1	1.7
92.5°	46.5	33.1	30.2	18.4	6.8
95°	114.2	64.3	59.0	37.7	16.4
97.5°	153.8	70.6	65.9	47.2	28.4
100°	168.3	75.9	71.7	54.7	37.7
102.5°	174.9	81.2	77.3	61.4	45.5
105°	179.9	89.2	85.8	72.3	58.8
107.5°	180.7	100.8	97.6	85.1	72.5
110°	179.4	107.3	104.5	93.1	81.8



TEST NUMBER: P933843

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-2700K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	179.5	115.1	112.4	101.6	90.9
115°	181.1	126.9	124.4	114.5	104.5
117.5°	184.5	138.5	136.1	127.1	118.0
120°	187.2	145.1	143.0	134.4	125.9
122.5°	191.2	153.0	150.8	142.2	133.6
125°	196.4	163.1	161.1	153.3	145.5
127.5°	201.7	172.8	170.8	162.9	155.0
130°	205.6	179.3	177.1	168.7	160.1
132.5°	208.7	184.6	182.4	174.0	165.4
135°	212.2	190.8	188.8	181.1	173.3
137.5°	217.3	198.7	196.7	189.0	181.3
140°	220.5	204.0	202.2	195.1	188.0
142.5°	223.1	207.9	206.3	199.7	193.2
145°	226.5	213.9	212.4	206.8	201.1
147.5°	231.5	221.4	220.0	214.5	208.9
150°	234.1	225.3	224.0	219.1	214.0
152.5°	235.8	227.9	226.9	223.1	219.3
155°	239.6	233.5	232.8	230.0	227.2
157.5°	243.3	239.2	238.5	235.7	233.0
160°	245.0	241.7	241.2	239.1	236.9
162.5°	246.8	244.5	244.0	242.5	240.9
165°	249.6	248.5	248.1	246.7	245.2
167.5°	251.6	250.7	250.5	249.8	249.1
170°	253.3	253.2	253.1	252.4	251.7
172.5°	253.4	253.4	253.4	253.2	253.1
175°	254.4	255.0	255.0	255.0	255.0
177.5°	254.5	255.0	255.0	255.0	255.0
180°	255.0	255.0	255.0	255.0	255.0



TEST NUMBER: P933843  
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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	12.13	13.15	12.94	13.98	15.01	14.96	15.98	15.77	16.82	17.85
	3H	12.61	13.53	13.44	14.37	15.43	16.32	17.24	17.15	18.08	19.14
	4H	12.81	13.68	13.65	14.53	15.60	16.78	17.64	17.62	18.49	19.56
	6H	12.94	13.74	13.79	14.60	15.68	17.07	17.87	17.93	18.73	19.81
	8H	12.95	13.71	13.81	14.58	15.67	17.15	17.91	18.01	18.79	19.87
	12H	12.92	13.65	13.79	14.52	15.63	17.20	17.92	18.07	18.79	19.90
4H	2H	13.18	14.04	14.03	14.89	15.96	15.39	16.26	16.24	17.11	18.18
	3H	14.22	14.94	15.08	15.83	16.91	16.91	17.63	17.77	18.52	19.60
	4H	14.50	15.16	15.37	16.04	17.15	17.45	18.11	18.32	18.99	20.10
	6H	14.64	15.20	15.52	16.11	17.23	17.83	18.39	18.71	19.30	20.41
	8H	14.65	15.18	15.54	16.08	17.21	17.94	18.47	18.83	19.37	20.50
	12H	14.62	15.10	15.53	16.02	17.15	18.00	18.48	18.91	19.40	20.53
8H	4H	14.97	15.50	15.86	16.40	17.53	17.59	18.12	18.48	19.02	20.15
	6H	15.24	15.68	16.16	16.62	17.75	18.03	18.47	18.95	19.41	20.54
	8H	15.28	15.67	16.21	16.61	17.75	18.19	18.58	19.11	19.51	20.66
	12H	15.28	15.62	16.20	16.54	17.74	18.29	18.64	19.22	19.56	20.76
12H	4H	14.99	15.46	15.89	16.38	17.52	17.56	18.04	18.47	18.96	20.09
	6H	15.30	15.69	16.23	16.63	17.77	18.03	18.42	18.96	19.35	20.50
	8H	15.38	15.72	16.31	16.64	17.84	18.20	18.54	19.13	19.47	20.67