

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: P933847

Luminaire Tested: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-5000K

Issue Date: 12/17/2024

**Test Information**

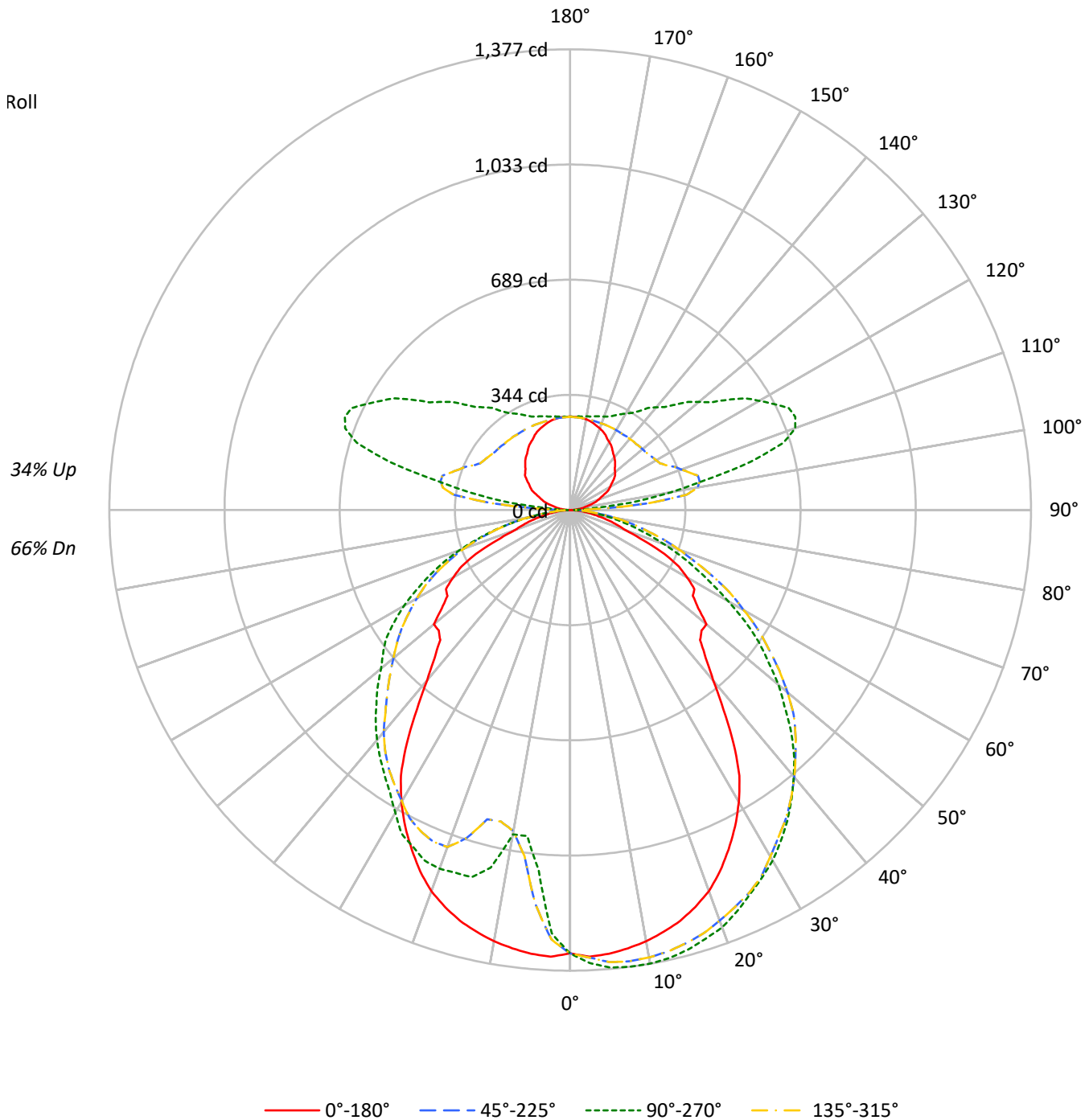
Test Method: LM-79-2019  
Report Number: P933847  
REPORT IS A COMBINATION OF REPORTS P933676 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-5000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5245.6 lumens  
Efficiency: N/A  
Efficacy: 119.2 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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### 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
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°	6148	6148	6148	6148
5°	6194	6206	6194	4880
10°	6153	6114	6153	4371
15°	6086	5981	6086	4995
20°	5958	5824	5958	5005
25°	5698	5596	5698	4899
30°	5362	5406	5362	4666
35°	4779	5165	4779	4410
40°	3983	4882	3983	4217
45°	3558	4551	3558	3994
50°	3781	4156	3781	3771
55°	3556	3730	3556	3642
60°	3667	3168	3667	3336
65°	3324	2619	3324	2928
70°	2302	2088	2302	2454
75°	2019	1543	2019	1848
80°	1624	1020	1624	1110
85°	936	541	936	459

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5454 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	119.6	2.3
10°-20°	339.6	6.5
20°-30°	525.0	10.0
30°-40°	626.8	11.9
40°-50°	630.4	12.0
50°-60°	548.5	10.5
60°-70°	388.9	7.4
70°-80°	205.8	3.9
80°-90°	52.3	1.0
90°-100°	136.0	2.6
100°-110°	357.5	6.8
110°-120°	370.7	7.1
120°-130°	297.4	5.7
130°-140°	233.3	4.4
140°-150°	179.1	3.4
150°-160°	129.0	2.5
160°-170°	78.9	1.5
170°-180°	26.7	0.5
0°-30°	984.3	18.8
0°-40°	1611.0	30.7
0°-60°	2790.0	53.2
0°-90°	3437.0	65.5
90°-120°	864.2	16.5
90°-150°	1574.0	30.0
90°-180°	1809.0	34.5
0°-180°	5245.6	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1325	1325	1325	1325	1325	
5°	1332	1373	1332	1080	1332	126
15°	1271	1360	1271	1136	1271	358
25°	1120	1269	1120	1111	1120	514
35°	851	1132	851	967	851	527
45°	549	933	549	819	549	440
55°	448	688	448	672	448	411
65°	311	415	311	464	311	297
75°	118	197	118	236	118	124
85°	20	50	20	43	20	27
90°	2	7	2	7	2	2
95°	18	82	18	82	18	20
105°	64	560	64	560	64	68
115°	114	721	114	721	114	113
125°	159	574	159	574	159	141
135°	190	445	190	445	190	147
145°	220	361	220	361	220	138
155°	249	311	249	311	249	114
165°	268	290	268	290	268	76
175°	279	281	279	281	279	26
180°	279	279	279	279	279	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1336.4	1336.4	1344.0	1346.5	1346.5	1342.7	1339.0	1342.7	1354.0	1357.8	1356.5
5°	1331.5	1341.5	1355.3	1357.8	1360.3	1359.1	1356.5	1359.1	1371.6	1374.1	1375.3
7.5°	1321.4	1340.3	1357.8	1361.6	1365.3	1361.6	1360.3	1362.8	1375.3	1377.9	1377.9
10°	1308.9	1335.2	1355.3	1357.8	1361.6	1357.8	1357.8	1362.8	1375.3	1377.9	1379.1
12.5°	1291.3	1327.7	1346.5	1349.0	1354.0	1352.8	1351.5	1356.5	1369.1	1371.6	1371.6
15°	1271.3	1313.9	1331.5	1333.9	1342.7	1340.3	1340.3	1345.2	1359.1	1362.8	1361.6
17.5°	1243.7	1296.3	1316.4	1320.2	1326.4	1325.2	1326.4	1331.5	1344.0	1346.5	1347.8
20°	1212.3	1272.5	1296.3	1300.1	1306.3	1306.3	1306.3	1312.6	1325.2	1330.2	1330.2
22.5°	1169.7	1247.5	1272.5	1275.0	1282.6	1282.6	1285.0	1293.8	1305.1	1306.3	1306.3
25°	1119.6	1219.9	1241.2	1248.7	1256.2	1260.0	1263.7	1268.8	1272.5	1271.3	1272.5
27.5°	1067.0	1184.7	1212.3	1217.4	1227.4	1231.2	1236.1	1237.5	1238.7	1242.4	1240.0
30°	1008.0	1135.9	1177.3	1182.3	1198.6	1201.1	1196.0	1198.6	1204.8	1207.4	1209.9
32.5°	941.5	1063.1	1140.9	1152.2	1167.3	1159.7	1158.5	1162.2	1172.2	1172.2	1174.7
35°	851.2	1006.8	1107.1	1117.1	1128.4	1119.6	1124.6	1125.9	1132.1	1135.9	1134.6
37.5°	752.3	957.9	1071.9	1079.5	1088.3	1077.0	1084.4	1088.3	1093.2	1090.7	1090.7
40°	664.5	881.3	1030.6	1035.6	1043.1	1034.3	1041.8	1044.3	1046.9	1044.3	1043.1
42.5°	599.2	797.4	986.7	992.9	987.9	994.2	996.7	1001.7	998.0	992.9	992.9
45°	549.1	774.8	939.0	946.6	939.0	949.1	952.8	952.8	941.5	939.0	937.8
47.5°	532.9	729.6	891.4	891.4	887.6	900.2	906.5	897.7	886.4	882.6	882.6
50°	531.6	679.5	826.2	821.2	838.7	853.8	847.5	838.7	829.9	816.2	816.2
52.5°	482.7	618.1	742.3	761.0	788.6	797.4	787.3	778.6	763.6	757.2	752.3
55°	447.5	554.2	665.7	703.4	732.2	743.5	724.7	715.9	693.3	689.5	687.0
57.5°	440.1	461.4	595.5	643.2	678.2	677.0	665.7	649.4	630.6	626.9	625.6
60°	403.7	333.5	520.3	576.7	613.1	609.3	599.2	584.2	566.7	564.2	561.7
62.5°	366.1	242.0	435.0	498.9	550.4	549.1	540.4	517.8	505.2	498.9	494.0
65°	310.9	203.1	309.7	415.0	488.9	491.5	472.7	456.3	442.6	435.0	433.8
67.5°	236.9	165.5	209.4	346.0	430.1	427.5	403.7	396.2	378.6	374.9	367.3
70°	175.5	110.3	145.4	280.9	372.4	366.1	347.2	338.6	322.2	313.4	308.5
72.5°	145.4	89.0	106.6	218.2	313.4	305.9	289.6	279.6	265.8	258.3	253.2
75°	117.9	94.0	81.5	161.7	254.5	249.5	234.4	224.4	213.1	203.1	204.3
77.5°	86.6	87.8	65.1	119.1	201.9	194.3	185.5	173.0	168.0	158.0	158.0
80°	65.1	69.0	48.9	81.5	145.4	145.4	137.9	129.2	120.4	115.3	115.3
82.5°	43.8	43.8	36.4	51.4	99.1	95.2	90.3	87.8	82.7	80.2	80.2
85°	20.1	25.1	22.5	31.3	53.9	56.5	56.5	53.9	52.6	50.2	51.4
87.5°	6.3	11.3	13.8	17.6	27.6	28.9	30.1	30.1	30.1	31.3	31.3
90°	1.9	3.4	4.9	5.2	8.2	12.2	14.2	12.6	9.4	7.1	7.1
92.5°	7.5	20.2	33.0	36.2	50.8	70.4	80.1	70.2	50.5	35.6	34.2
95°	17.9	41.2	64.6	70.4	125.0	197.8	234.2	209.0	158.6	120.8	116.5
97.5°	31.1	51.7	72.2	77.3	168.3	289.8	350.5	334.6	302.8	278.8	270.7
100°	41.2	59.8	78.4	83.1	184.1	318.8	386.2	387.4	389.8	391.5	381.8
102.5°	49.8	67.2	84.6	88.9	191.4	328.1	396.4	416.7	457.3	487.7	479.4
105°	64.4	79.2	93.9	97.6	196.8	329.1	395.3	440.8	531.8	600.1	595.6
107.5°	79.4	93.1	106.8	110.3	197.8	314.4	372.8	436.2	563.3	658.5	659.6
110°	89.5	101.9	114.3	117.4	196.3	301.4	354.1	425.0	567.0	673.5	678.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	99.5	111.2	123.0	126.0	196.4	290.1	337.1	409.7	554.9	663.9	671.1
115°	114.4	125.3	136.2	138.9	198.2	277.1	316.6	386.6	526.6	631.6	641.5
117.5°	129.2	139.1	149.0	151.5	201.9	269.0	302.6	365.8	492.0	586.8	597.8
120°	137.8	147.1	156.5	158.8	204.9	266.3	297.0	354.6	470.1	556.6	567.3
122.5°	146.2	155.6	165.1	167.4	209.2	264.8	292.7	344.6	448.6	526.5	537.1
125°	159.2	167.8	176.3	178.4	215.0	263.7	288.0	332.1	420.4	486.6	496.3
127.5°	169.6	178.2	186.9	189.1	220.8	262.9	284.1	322.0	397.8	454.6	462.9
130°	175.3	184.6	193.9	196.2	225.0	263.4	282.6	316.3	383.8	434.4	441.9
132.5°	181.1	190.4	199.7	202.0	228.4	263.7	281.3	311.4	371.8	417.2	424.0
135°	189.7	198.2	206.7	208.8	232.2	263.4	279.0	304.3	354.9	392.9	398.7
137.5°	198.4	206.9	215.3	217.4	237.8	265.0	278.6	300.0	342.8	374.8	379.6
140°	205.7	213.5	221.2	223.2	241.2	265.3	277.3	295.8	332.8	360.4	364.9
142.5°	211.4	218.5	225.7	227.5	244.1	266.3	277.3	293.6	326.0	350.3	354.2
145°	220.0	226.3	232.5	234.1	247.9	266.3	275.5	288.7	315.3	335.2	338.1
147.5°	228.6	234.7	240.8	242.3	253.3	268.1	275.5	285.9	306.8	322.4	324.8
150°	234.2	239.8	245.2	246.6	256.2	269.0	275.5	284.2	301.9	315.1	317.1
152.5°	240.0	244.1	248.4	249.4	258.1	269.7	275.5	282.9	298.0	309.3	310.8
155°	248.6	251.7	254.8	255.5	262.2	271.1	275.5	281.4	293.4	302.4	303.3
157.5°	255.0	258.0	261.0	261.7	266.3	272.4	275.5	280.1	289.4	296.4	297.0
160°	259.3	261.6	264.0	264.5	268.2	273.0	275.5	279.5	287.4	293.4	293.8
162.5°	263.6	265.4	267.0	267.5	270.1	273.7	275.5	278.8	285.6	290.6	291.0
165°	268.4	269.9	271.5	271.9	273.1	274.7	275.5	277.9	282.7	286.3	286.7
167.5°	272.7	273.4	274.1	274.3	275.4	276.7	277.3	278.9	282.1	284.4	284.6
170°	275.5	276.2	277.0	277.1	277.2	277.3	277.3	278.9	282.1	284.4	284.4
172.5°	277.0	277.1	277.3	277.3	277.3	277.3	277.3	278.5	281.1	282.9	282.7
175°	279.0	279.0	279.0	279.0	278.4	277.7	277.3	278.1	279.7	280.9	280.9
177.5°	279.0	279.0	279.0	279.0	278.5	278.0	277.7	278.4	279.6	280.5	280.3
180°	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1359.1	1355.3	1359.1	1356.5	1357.8	1354.0	1342.7	1339.0	1342.7	1346.5	1346.5
5°	1375.3	1372.8	1375.3	1375.3	1374.1	1371.6	1359.1	1356.5	1359.1	1360.3	1357.8
7.5°	1380.4	1376.6	1380.4	1377.9	1377.9	1375.3	1362.8	1360.3	1361.6	1365.3	1361.6
10°	1380.4	1376.6	1380.4	1379.1	1377.9	1375.3	1362.8	1357.8	1357.8	1361.6	1357.8
12.5°	1374.1	1371.6	1374.1	1371.6	1371.6	1369.1	1356.5	1351.5	1352.8	1354.0	1349.0
15°	1364.0	1360.3	1364.0	1361.6	1362.8	1359.1	1345.2	1340.3	1340.3	1342.7	1333.9
17.5°	1349.0	1344.0	1349.0	1347.8	1346.5	1344.0	1331.5	1326.4	1325.2	1326.4	1320.2
20°	1331.5	1327.7	1331.5	1330.2	1330.2	1325.2	1312.6	1306.3	1306.3	1306.3	1300.1
22.5°	1303.9	1300.1	1303.9	1306.3	1306.3	1305.1	1293.8	1285.0	1282.6	1282.6	1275.0
25°	1272.5	1268.8	1272.5	1272.5	1271.3	1272.5	1268.8	1263.7	1260.0	1256.2	1248.7
27.5°	1242.4	1240.0	1242.4	1240.0	1242.4	1238.7	1237.5	1236.1	1231.2	1227.4	1217.4
30°	1212.3	1209.9	1212.3	1209.9	1207.4	1204.8	1198.6	1196.0	1201.1	1198.6	1182.3
32.5°	1174.7	1172.2	1174.7	1174.7	1172.2	1172.2	1162.2	1158.5	1159.7	1167.3	1152.2
35°	1135.9	1132.1	1135.9	1134.6	1135.9	1132.1	1125.9	1124.6	1119.6	1128.4	1117.1
37.5°	1090.7	1087.0	1090.7	1090.7	1090.7	1093.2	1088.3	1084.4	1077.0	1088.3	1079.5
40°	1044.3	1039.3	1044.3	1043.1	1044.3	1046.9	1044.3	1041.8	1034.3	1043.1	1035.6
42.5°	991.7	990.4	991.7	992.9	992.9	998.0	1001.7	996.7	994.2	987.9	992.9
45°	935.3	932.7	935.3	937.8	939.0	941.5	952.8	952.8	949.1	939.0	946.6
47.5°	875.1	868.8	875.1	882.6	882.6	886.4	897.7	906.5	900.2	887.6	891.4
50°	811.1	812.4	811.1	816.2	816.2	829.9	838.7	847.5	853.8	838.7	821.2
52.5°	748.5	747.2	748.5	752.3	757.2	763.6	778.6	787.3	797.4	788.6	761.0
55°	685.8	688.3	685.8	687.0	689.5	693.3	715.9	724.7	743.5	732.2	703.4
57.5°	623.1	619.3	623.1	625.6	626.9	630.6	649.4	665.7	677.0	678.2	643.2
60°	550.4	545.4	550.4	561.7	564.2	566.7	584.2	599.2	609.3	613.1	576.7
62.5°	486.4	477.6	486.4	494.0	498.9	505.2	517.8	540.4	549.1	550.4	498.9
65°	418.7	415.0	418.7	433.8	435.0	442.6	456.3	472.7	491.5	488.9	415.0
67.5°	357.3	357.3	357.3	367.3	374.9	378.6	396.2	403.7	427.5	430.1	346.0
70°	300.9	299.7	300.9	308.5	313.4	322.2	338.6	347.2	366.1	372.4	280.9
72.5°	246.9	245.7	246.9	253.2	258.3	265.8	279.6	289.6	305.9	313.4	218.2
75°	199.4	196.8	199.4	204.3	203.1	213.1	224.4	234.4	249.5	254.5	161.7
77.5°	152.9	152.9	152.9	158.0	158.0	168.0	173.0	185.5	194.3	201.9	119.1
80°	114.1	112.8	114.1	115.3	115.3	120.4	129.2	137.9	145.4	145.4	81.5
82.5°	80.2	77.8	80.2	80.2	80.2	82.7	87.8	90.3	95.2	99.1	51.4
85°	50.2	50.2	50.2	51.4	50.2	52.6	53.9	56.5	56.5	53.9	31.3
87.5°	32.6	31.3	32.6	31.3	31.3	30.1	30.1	30.1	28.9	27.6	17.6
90°	7.1	7.1	7.1	7.1	7.1	9.4	12.6	14.2	12.2	8.2	5.2
92.5°	28.5	22.8	28.5	34.2	35.6	50.5	70.2	80.1	70.4	50.8	36.2
95°	99.4	82.2	99.4	116.5	120.8	158.6	209.0	234.2	197.8	125.0	70.4
97.5°	238.0	205.4	238.0	270.7	278.8	302.8	334.6	350.5	289.8	168.3	77.3
100°	342.9	304.1	342.9	381.8	391.5	389.8	387.4	386.2	318.8	184.1	83.1
102.5°	446.1	412.9	446.1	479.4	487.7	457.3	416.7	396.4	328.1	191.4	88.9
105°	577.7	559.8	577.7	595.6	600.1	531.8	440.8	395.3	329.1	196.8	97.6
107.5°	663.9	668.2	663.9	659.6	658.5	563.3	436.2	372.8	314.4	197.8	110.3
110°	696.7	715.4	696.7	678.1	673.5	567.0	425.0	354.1	301.4	196.3	117.4





TEST NUMBER: P933847

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	699.7	728.3	699.7	671.1	663.9	554.9	409.7	337.1	290.1	196.4	126.0
115°	681.2	720.8	681.2	641.5	631.6	526.6	386.6	316.6	277.1	198.2	138.9
117.5°	641.9	685.9	641.9	597.8	586.8	492.0	365.8	302.6	269.0	201.9	151.5
120°	610.1	652.9	610.1	567.3	556.6	470.1	354.6	297.0	266.3	204.9	158.8
122.5°	579.2	621.4	579.2	537.1	526.5	448.6	344.6	292.7	264.8	209.2	167.4
125°	535.2	574.1	535.2	496.3	486.6	420.4	332.1	288.0	263.7	215.0	178.4
127.5°	495.6	528.4	495.6	462.9	454.6	397.8	322.0	284.1	262.9	220.8	189.1
130°	472.2	502.5	472.2	441.9	434.4	383.8	316.3	282.6	263.4	225.0	196.2
132.5°	451.1	478.2	451.1	424.0	417.2	371.8	311.4	281.3	263.7	228.4	202.0
135°	422.0	445.4	422.0	398.7	392.9	354.9	304.3	279.0	263.4	232.2	208.8
137.5°	398.7	417.9	398.7	379.6	374.8	342.8	300.0	278.6	265.0	237.8	217.4
140°	382.8	400.7	382.8	364.9	360.4	332.8	295.8	277.3	265.3	241.2	223.2
142.5°	369.6	384.9	369.6	354.2	350.3	326.0	293.6	277.3	266.3	244.1	227.5
145°	349.8	361.4	349.8	338.1	335.2	315.3	288.7	275.5	266.3	247.9	234.1
147.5°	334.4	344.2	334.4	324.8	322.4	306.8	285.9	275.5	268.1	253.3	242.3
150°	324.9	332.8	324.9	317.1	315.1	301.9	284.2	275.5	269.0	256.2	246.6
152.5°	316.7	322.6	316.7	310.8	309.3	298.0	282.9	275.5	269.7	258.1	249.4
155°	307.2	311.2	307.2	303.3	302.4	293.4	281.4	275.5	271.1	262.2	255.5
157.5°	299.9	302.6	299.9	297.0	296.4	289.4	280.1	275.5	272.4	266.3	261.7
160°	295.4	297.0	295.4	293.8	293.4	287.4	279.5	275.5	273.0	268.2	264.5
162.5°	292.5	294.0	292.5	291.0	290.6	285.6	278.8	275.5	273.7	270.1	267.5
165°	288.3	289.9	288.3	286.7	286.3	282.7	277.9	275.5	274.7	273.1	271.9
167.5°	285.3	285.9	285.3	284.6	284.4	282.1	278.9	277.3	276.7	275.4	274.3
170°	284.4	284.4	284.4	284.4	284.4	282.1	278.9	277.3	277.3	277.2	277.1
172.5°	282.2	281.6	282.2	282.7	282.9	281.1	278.5	277.3	277.3	277.3	277.3
175°	280.9	280.9	280.9	280.9	280.9	279.7	278.1	277.3	277.7	278.4	279.0
177.5°	279.7	279.0	279.7	280.3	280.5	279.6	278.4	277.7	278.0	278.5	279.0
180°	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0



TEST NUMBER: P933847

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1344.0	1336.4	1336.4	1323.9	1319.0	1315.1	1308.9	1290.1	1285.0	1280.1	1287.6
5°	1355.3	1341.5	1331.5	1308.9	1290.1	1282.6	1258.8	1213.6	1183.5	1160.9	1148.4
7.5°	1357.8	1340.3	1321.4	1286.3	1241.2	1221.1	1148.4	1065.7	1043.1	1023.0	1010.5
10°	1355.3	1335.2	1308.9	1256.2	1149.7	1114.5	1041.8	987.9	974.2	970.4	974.2
12.5°	1346.5	1327.7	1291.3	1203.6	1054.3	1030.6	987.9	956.6	954.1	960.3	994.2
15°	1331.5	1313.9	1271.3	1133.3	1001.7	984.2	954.1	942.8	956.6	1000.5	1102.0
17.5°	1316.4	1296.3	1243.7	1064.4	961.6	949.1	927.8	950.3	1028.1	1087.0	1120.8
20°	1296.3	1272.5	1212.3	1014.2	932.7	921.5	911.4	1013.0	1071.9	1093.2	1112.0
22.5°	1272.5	1247.5	1169.7	979.2	902.6	894.0	900.2	1048.1	1071.9	1087.0	1103.2
25°	1241.2	1219.9	1119.6	951.6	878.9	868.8	892.6	1044.3	1058.2	1061.9	1094.5
27.5°	1212.3	1184.7	1067.0	926.5	850.0	846.3	898.9	1028.1	1038.1	1041.8	1077.0
30°	1177.3	1135.9	1008.0	900.2	819.9	818.7	900.2	1008.0	1005.5	1015.6	1050.6
32.5°	1140.9	1063.1	941.5	867.6	791.1	789.8	891.4	977.9	975.4	989.2	1015.6
35°	1107.1	1006.8	851.2	829.9	754.8	756.0	870.1	942.8	944.1	956.6	972.9
37.5°	1071.9	957.9	752.3	788.6	719.6	719.6	841.2	910.2	907.7	911.4	934.1
40°	1030.6	881.3	664.5	734.7	687.0	683.3	806.2	875.1	866.3	865.1	896.4
42.5°	986.7	797.4	599.2	663.3	649.4	644.4	763.6	832.4	816.2	819.9	860.0
45°	939.0	774.8	549.1	560.4	610.5	606.8	717.1	783.6	772.3	782.3	823.7
47.5°	891.4	729.6	532.9	465.1	569.2	567.9	665.7	735.9	729.6	739.7	783.6
50°	826.2	679.5	531.6	398.7	522.8	527.8	604.3	689.5	689.5	698.3	744.7
52.5°	742.3	618.1	482.7	361.1	468.8	483.9	550.4	649.4	652.0	660.7	702.1
55°	665.7	554.2	447.5	332.2	404.9	437.5	497.7	608.0	613.1	621.9	659.4
57.5°	595.5	461.4	440.1	298.4	346.0	377.3	451.4	567.9	570.5	577.9	614.3
60°	520.3	333.5	403.7	262.0	294.6	318.5	408.7	520.3	529.0	534.1	565.4
62.5°	435.0	242.0	366.1	236.9	269.6	274.5	373.6	475.2	486.4	490.3	509.0
65°	309.7	203.1	310.9	215.6	243.2	244.5	336.0	428.7	438.8	445.1	458.8
67.5°	209.4	165.5	236.9	195.5	223.2	224.4	299.7	374.9	388.7	393.7	402.5
70°	145.4	110.3	175.5	174.2	200.6	203.1	260.8	325.9	338.6	342.3	347.2
72.5°	106.6	89.0	145.4	156.8	176.8	179.3	220.7	270.8	283.3	287.1	289.6
75°	81.5	94.0	117.9	136.7	150.5	151.7	180.5	220.7	229.5	231.9	233.2
77.5°	65.1	87.8	86.6	110.3	122.8	120.4	141.7	170.5	178.1	178.1	178.1
80°	48.9	69.0	65.1	79.0	90.3	87.8	101.5	121.6	124.1	126.7	125.3
82.5°	36.4	43.8	43.8	50.2	60.2	57.7	67.7	79.0	79.0	79.0	81.5
85°	22.5	25.1	20.1	26.4	33.8	32.6	37.6	42.6	43.8	43.8	41.4
87.5°	13.8	11.3	6.3	10.0	15.0	15.0	17.6	18.8	17.6	17.6	17.6
90°	4.9	3.4	1.9	3.4	4.9	5.2	8.2	12.2	14.2	12.6	9.4
92.5°	33.0	20.2	7.5	20.2	33.0	36.2	50.8	70.4	80.1	70.2	50.5
95°	64.6	41.2	17.9	41.2	64.6	70.4	125.0	197.8	234.2	209.0	158.6
97.5°	72.2	51.7	31.1	51.7	72.2	77.3	168.3	289.8	350.5	334.6	302.8
100°	78.4	59.8	41.2	59.8	78.4	83.1	184.1	318.8	386.2	387.4	389.8
102.5°	84.6	67.2	49.8	67.2	84.6	88.9	191.4	328.1	396.4	416.7	457.3
105°	93.9	79.2	64.4	79.2	93.9	97.6	196.8	329.1	395.3	440.8	531.8
107.5°	106.8	93.1	79.4	93.1	106.8	110.3	197.8	314.4	372.8	436.2	563.3
110°	114.3	101.9	89.5	101.9	114.3	117.4	196.3	301.4	354.1	425.0	567.0



TEST NUMBER: P933847

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	123.0	111.2	99.5	111.2	123.0	126.0	196.4	290.1	337.1	409.7	554.9
115°	136.2	125.3	114.4	125.3	136.2	138.9	198.2	277.1	316.6	386.6	526.6
117.5°	149.0	139.1	129.2	139.1	149.0	151.5	201.9	269.0	302.6	365.8	492.0
120°	156.5	147.1	137.8	147.1	156.5	158.8	204.9	266.3	297.0	354.6	470.1
122.5°	165.1	155.6	146.2	155.6	165.1	167.4	209.2	264.8	292.7	344.6	448.6
125°	176.3	167.8	159.2	167.8	176.3	178.4	215.0	263.7	288.0	332.1	420.4
127.5°	186.9	178.2	169.6	178.2	186.9	189.1	220.8	262.9	284.1	322.0	397.8
130°	193.9	184.6	175.3	184.6	193.9	196.2	225.0	263.4	282.6	316.3	383.8
132.5°	199.7	190.4	181.1	190.4	199.7	202.0	228.4	263.7	281.3	311.4	371.8
135°	206.7	198.2	189.7	198.2	206.7	208.8	232.2	263.4	279.0	304.3	354.9
137.5°	215.3	206.9	198.4	206.9	215.3	217.4	237.8	265.0	278.6	300.0	342.8
140°	221.2	213.5	205.7	213.5	221.2	223.2	241.2	265.3	277.3	295.8	332.8
142.5°	225.7	218.5	211.4	218.5	225.7	227.5	244.1	266.3	277.3	293.6	326.0
145°	232.5	226.3	220.0	226.3	232.5	234.1	247.9	266.3	275.5	288.7	315.3
147.5°	240.8	234.7	228.6	234.7	240.8	242.3	253.3	268.1	275.5	285.9	306.8
150°	245.2	239.8	234.2	239.8	245.2	246.6	256.2	269.0	275.5	284.2	301.9
152.5°	248.4	244.1	240.0	244.1	248.4	249.4	258.1	269.7	275.5	282.9	298.0
155°	254.8	251.7	248.6	251.7	254.8	255.5	262.2	271.1	275.5	281.4	293.4
157.5°	261.0	258.0	255.0	258.0	261.0	261.7	266.3	272.4	275.5	280.1	289.4
160°	264.0	261.6	259.3	261.6	264.0	264.5	268.2	273.0	275.5	279.5	287.4
162.5°	267.0	265.4	263.6	265.4	267.0	267.5	270.1	273.7	275.5	278.8	285.6
165°	271.5	269.9	268.4	269.9	271.5	271.9	273.1	274.7	275.5	277.9	282.7
167.5°	274.1	273.4	272.7	273.4	274.1	274.3	275.4	276.7	277.3	278.9	282.1
170°	277.0	276.2	275.5	276.2	277.0	277.1	277.2	277.3	277.3	278.9	282.1
172.5°	277.3	277.1	277.0	277.1	277.3	277.3	277.3	277.3	277.3	278.5	281.1
175°	279.0	279.0	279.0	279.0	279.0	279.0	278.4	277.7	277.3	278.1	279.7
177.5°	279.0	279.0	279.0	279.0	279.0	279.0	278.5	278.0	277.7	278.4	279.6
180°	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0



TEST NUMBER: P933847

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1278.8	1275.0	1280.1	1266.2	1280.1	1275.0	1278.8	1287.6	1280.1	1285.0	1290.1
5°	1122.1	1115.9	1095.8	1079.5	1095.8	1115.9	1122.1	1148.4	1160.9	1183.5	1213.6
7.5°	1002.9	998.0	992.9	982.9	992.9	998.0	1002.9	1010.5	1023.0	1043.1	1065.7
10°	976.7	977.9	985.5	984.2	985.5	977.9	976.7	974.2	970.4	974.2	987.9
12.5°	1044.3	1055.7	1097.0	1094.5	1097.0	1055.7	1044.3	994.2	960.3	954.1	956.6
15°	1122.1	1125.9	1134.6	1135.9	1134.6	1125.9	1122.1	1102.0	1000.5	956.6	942.8
17.5°	1129.6	1130.9	1137.2	1137.2	1137.2	1130.9	1129.6	1120.8	1087.0	1028.1	950.3
20°	1123.3	1125.9	1138.4	1140.9	1138.4	1125.9	1123.3	1112.0	1093.2	1071.9	1013.0
22.5°	1120.8	1125.9	1135.9	1134.6	1135.9	1125.9	1120.8	1103.2	1087.0	1071.9	1048.1
25°	1108.3	1108.3	1109.6	1110.8	1109.6	1108.3	1108.3	1094.5	1061.9	1058.2	1044.3
27.5°	1081.9	1084.4	1092.0	1090.7	1092.0	1084.4	1081.9	1077.0	1041.8	1038.1	1028.1
30°	1058.2	1055.7	1049.4	1044.3	1049.4	1055.7	1058.2	1050.6	1015.6	1005.5	1008.0
32.5°	1018.0	1011.7	1005.5	1001.7	1005.5	1011.7	1018.0	1015.6	989.2	975.4	977.9
35°	970.4	971.6	970.4	966.6	970.4	971.6	970.4	972.9	956.6	944.1	942.8
37.5°	936.6	939.0	937.8	932.7	937.8	939.0	936.6	934.1	911.4	907.7	910.2
40°	901.4	902.6	901.4	897.7	901.4	902.6	901.4	896.4	865.1	866.3	875.1
42.5°	867.6	866.3	862.5	860.0	862.5	866.3	867.6	860.0	819.9	816.2	832.4
45°	828.7	829.9	822.4	818.7	822.4	829.9	828.7	823.7	782.3	772.3	783.6
47.5°	789.8	789.8	783.6	779.8	783.6	789.8	789.8	783.6	739.7	729.6	735.9
50°	748.5	747.2	738.4	737.2	738.4	747.2	748.5	744.7	698.3	689.5	689.5
52.5°	700.8	700.8	702.1	704.6	702.1	700.8	700.8	702.1	660.7	652.0	649.4
55°	659.4	660.7	669.5	672.0	669.5	660.7	659.4	659.4	621.9	613.1	608.0
57.5°	616.8	616.8	623.1	623.1	623.1	616.8	616.8	614.3	577.9	570.5	567.9
60°	567.9	570.5	575.5	574.2	575.5	570.5	567.9	565.4	534.1	529.0	520.3
62.5°	516.5	519.0	520.3	517.8	520.3	519.0	516.5	509.0	490.3	486.4	475.2
65°	462.6	465.1	466.4	463.9	466.4	465.1	462.6	458.8	445.1	438.8	428.7
67.5°	407.4	406.2	404.9	410.0	404.9	406.2	407.4	402.5	393.7	388.7	374.9
70°	351.1	351.1	349.8	352.3	349.8	351.1	351.1	347.2	342.3	338.6	325.9
72.5°	290.9	289.6	294.6	290.9	294.6	289.6	290.9	289.6	287.1	283.3	270.8
75°	231.9	234.4	231.9	235.7	231.9	234.4	231.9	233.2	231.9	229.5	220.7
77.5°	176.8	179.3	176.8	176.8	176.8	179.3	176.8	178.1	178.1	178.1	170.5
80°	125.3	124.1	124.1	122.8	124.1	124.1	125.3	125.3	126.7	124.1	121.6
82.5°	80.2	79.0	79.0	81.5	79.0	79.0	80.2	81.5	79.0	79.0	79.0
85°	43.8	45.1	42.6	42.6	42.6	45.1	43.8	41.4	43.8	43.8	42.6
87.5°	16.3	15.0	15.0	15.0	15.0	15.0	16.3	17.6	17.6	17.6	18.8
90°	7.1	7.1	7.1	7.1	7.1	7.1	7.1	9.4	12.6	14.2	12.2
92.5°	35.6	34.2	28.5	22.8	28.5	34.2	35.6	50.5	70.2	80.1	70.4
95°	120.8	116.5	99.4	82.2	99.4	116.5	120.8	158.6	209.0	234.2	197.8
97.5°	278.8	270.7	238.0	205.4	238.0	270.7	278.8	302.8	334.6	350.5	289.8
100°	391.5	381.8	342.9	304.1	342.9	381.8	391.5	389.8	387.4	386.2	318.8
102.5°	487.7	479.4	446.1	412.9	446.1	479.4	487.7	457.3	416.7	396.4	328.1
105°	600.1	595.6	577.7	559.8	577.7	595.6	600.1	531.8	440.8	395.3	329.1
107.5°	658.5	659.6	663.9	668.2	663.9	659.6	658.5	563.3	436.2	372.8	314.4
110°	673.5	678.1	696.7	715.4	696.7	678.1	673.5	567.0	425.0	354.1	301.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	663.9	671.1	699.7	728.3	699.7	671.1	663.9	554.9	409.7	337.1	290.1
115°	631.6	641.5	681.2	720.8	681.2	641.5	631.6	526.6	386.6	316.6	277.1
117.5°	586.8	597.8	641.9	685.9	641.9	597.8	586.8	492.0	365.8	302.6	269.0
120°	556.6	567.3	610.1	652.9	610.1	567.3	556.6	470.1	354.6	297.0	266.3
122.5°	526.5	537.1	579.2	621.4	579.2	537.1	526.5	448.6	344.6	292.7	264.8
125°	486.6	496.3	535.2	574.1	535.2	496.3	486.6	420.4	332.1	288.0	263.7
127.5°	454.6	462.9	495.6	528.4	495.6	462.9	454.6	397.8	322.0	284.1	262.9
130°	434.4	441.9	472.2	502.5	472.2	441.9	434.4	383.8	316.3	282.6	263.4
132.5°	417.2	424.0	451.1	478.2	451.1	424.0	417.2	371.8	311.4	281.3	263.7
135°	392.9	398.7	422.0	445.4	422.0	398.7	392.9	354.9	304.3	279.0	263.4
137.5°	374.8	379.6	398.7	417.9	398.7	379.6	374.8	342.8	300.0	278.6	265.0
140°	360.4	364.9	382.8	400.7	382.8	364.9	360.4	332.8	295.8	277.3	265.3
142.5°	350.3	354.2	369.6	384.9	369.6	354.2	350.3	326.0	293.6	277.3	266.3
145°	335.2	338.1	349.8	361.4	349.8	338.1	335.2	315.3	288.7	275.5	266.3
147.5°	322.4	324.8	334.4	344.2	334.4	324.8	322.4	306.8	285.9	275.5	268.1
150°	315.1	317.1	324.9	332.8	324.9	317.1	315.1	301.9	284.2	275.5	269.0
152.5°	309.3	310.8	316.7	322.6	316.7	310.8	309.3	298.0	282.9	275.5	269.7
155°	302.4	303.3	307.2	311.2	307.2	303.3	302.4	293.4	281.4	275.5	271.1
157.5°	296.4	297.0	299.9	302.6	299.9	297.0	296.4	289.4	280.1	275.5	272.4
160°	293.4	293.8	295.4	297.0	295.4	293.8	293.4	287.4	279.5	275.5	273.0
162.5°	290.6	291.0	292.5	294.0	292.5	291.0	290.6	285.6	278.8	275.5	273.7
165°	286.3	286.7	288.3	289.9	288.3	286.7	286.3	282.7	277.9	275.5	274.7
167.5°	284.4	284.6	285.3	285.9	285.3	284.6	284.4	282.1	278.9	277.3	276.7
170°	284.4	284.4	284.4	284.4	284.4	284.4	284.4	282.1	278.9	277.3	277.3
172.5°	282.9	282.7	282.2	281.6	282.2	282.7	282.9	281.1	278.5	277.3	277.3
175°	280.9	280.9	280.9	280.9	280.9	280.9	280.9	279.7	278.1	277.3	277.7
177.5°	280.5	280.3	279.7	279.0	279.7	280.3	280.5	279.6	278.4	277.7	278.0
180°	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0	279.0



TEST NUMBER: P933847

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1325.2	1325.2	1325.2	1325.2	1325.2
2.5°	1308.9	1315.1	1319.0	1323.9	1336.4
5°	1258.8	1282.6	1290.1	1308.9	1331.5
7.5°	1148.4	1221.1	1241.2	1286.3	1321.4
10°	1041.8	1114.5	1149.7	1256.2	1308.9
12.5°	987.9	1030.6	1054.3	1203.6	1291.3
15°	954.1	984.2	1001.7	1133.3	1271.3
17.5°	927.8	949.1	961.6	1064.4	1243.7
20°	911.4	921.5	932.7	1014.2	1212.3
22.5°	900.2	894.0	902.6	979.2	1169.7
25°	892.6	868.8	878.9	951.6	1119.6
27.5°	898.9	846.3	850.0	926.5	1067.0
30°	900.2	818.7	819.9	900.2	1008.0
32.5°	891.4	789.8	791.1	867.6	941.5
35°	870.1	756.0	754.8	829.9	851.2
37.5°	841.2	719.6	719.6	788.6	752.3
40°	806.2	683.3	687.0	734.7	664.5
42.5°	763.6	644.4	649.4	663.3	599.2
45°	717.1	606.8	610.5	560.4	549.1
47.5°	665.7	567.9	569.2	465.1	532.9
50°	604.3	527.8	522.8	398.7	531.6
52.5°	550.4	483.9	468.8	361.1	482.7
55°	497.7	437.5	404.9	332.2	447.5
57.5°	451.4	377.3	346.0	298.4	440.1
60°	408.7	318.5	294.6	262.0	403.7
62.5°	373.6	274.5	269.6	236.9	366.1
65°	336.0	244.5	243.2	215.6	310.9
67.5°	299.7	224.4	223.2	195.5	236.9
70°	260.8	203.1	200.6	174.2	175.5
72.5°	220.7	179.3	176.8	156.8	145.4
75°	180.5	151.7	150.5	136.7	117.9
77.5°	141.7	120.4	122.8	110.3	86.6
80°	101.5	87.8	90.3	79.0	65.1
82.5°	67.7	57.7	60.2	50.2	43.8
85°	37.6	32.6	33.8	26.4	20.1
87.5°	17.6	15.0	15.0	10.0	6.3
90°	8.2	5.2	4.9	3.4	1.9
92.5°	50.8	36.2	33.0	20.2	7.5
95°	125.0	70.4	64.6	41.2	17.9
97.5°	168.3	77.3	72.2	51.7	31.1
100°	184.1	83.1	78.4	59.8	41.2
102.5°	191.4	88.9	84.6	67.2	49.8
105°	196.8	97.6	93.9	79.2	64.4
107.5°	197.8	110.3	106.8	93.1	79.4
110°	196.3	117.4	114.3	101.9	89.5



TEST NUMBER: P933847

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-5000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	196.4	126.0	123.0	111.2	99.5
115°	198.2	138.9	136.2	125.3	114.4
117.5°	201.9	151.5	149.0	139.1	129.2
120°	204.9	158.8	156.5	147.1	137.8
122.5°	209.2	167.4	165.1	155.6	146.2
125°	215.0	178.4	176.3	167.8	159.2
127.5°	220.8	189.1	186.9	178.2	169.6
130°	225.0	196.2	193.9	184.6	175.3
132.5°	228.4	202.0	199.7	190.4	181.1
135°	232.2	208.8	206.7	198.2	189.7
137.5°	237.8	217.4	215.3	206.9	198.4
140°	241.2	223.2	221.2	213.5	205.7
142.5°	244.1	227.5	225.7	218.5	211.4
145°	247.9	234.1	232.5	226.3	220.0
147.5°	253.3	242.3	240.8	234.7	228.6
150°	256.2	246.6	245.2	239.8	234.2
152.5°	258.1	249.4	248.4	244.1	240.0
155°	262.2	255.5	254.8	251.7	248.6
157.5°	266.3	261.7	261.0	258.0	255.0
160°	268.2	264.5	264.0	261.6	259.3
162.5°	270.1	267.5	267.0	265.4	263.6
165°	273.1	271.9	271.5	269.9	268.4
167.5°	275.4	274.3	274.1	273.4	272.7
170°	277.2	277.1	277.0	276.2	275.5
172.5°	277.3	277.3	277.3	277.1	277.0
175°	278.4	279.0	279.0	279.0	279.0
177.5°	278.5	279.0	279.0	279.0	279.0
180°	279.0	279.0	279.0	279.0	279.0



TEST NUMBER: P933847

CATALOG NUMBER: SQ4-FA-025U-050D-92765-1D-UNV-STD-W-8-5000K

**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	12.44	13.46	13.25	14.29	15.32	15.28	16.30	16.09	17.13	18.16
	3H	12.93	13.84	13.75	14.69	15.75	16.64	17.55	17.46	18.40	19.45
	4H	13.13	13.99	13.97	14.84	15.91	17.09	17.95	17.93	18.81	19.88
	6H	13.25	14.05	14.11	14.91	15.99	17.38	18.18	18.24	19.04	20.12
	8H	13.26	14.02	14.12	14.90	15.98	17.46	18.22	18.33	19.10	20.18
	12H	13.24	13.96	14.10	14.83	15.94	17.51	18.23	18.38	19.10	20.21
4H	2H	13.49	14.36	14.34	15.21	16.28	15.70	16.57	16.55	17.42	18.49
	3H	14.53	15.25	15.39	16.14	17.22	17.23	17.95	18.09	18.83	19.92
	4H	14.82	15.47	15.69	16.35	17.47	17.76	18.42	18.63	19.30	20.41
	6H	14.95	15.52	15.84	16.42	17.54	18.14	18.71	19.03	19.61	20.73
	8H	14.96	15.49	15.85	16.39	17.52	18.25	18.78	19.14	19.68	20.81
	12H	14.94	15.41	15.84	16.33	17.47	18.32	18.79	19.23	19.71	20.85
8H	4H	15.28	15.81	16.17	16.71	17.84	17.90	18.43	18.79	19.33	20.46
	6H	15.55	15.99	16.47	16.93	18.06	18.35	18.78	19.26	19.73	20.85
	8H	15.60	15.99	16.52	16.92	18.06	18.50	18.89	19.43	19.82	20.97
	12H	15.59	15.93	16.52	16.86	18.05	18.61	18.95	19.54	19.88	21.07
12H	4H	15.30	15.78	16.21	16.69	17.83	17.87	18.35	18.78	19.27	20.40
	6H	15.62	16.00	16.54	16.94	18.08	18.34	18.73	19.27	19.67	20.81
	8H	15.69	16.03	16.62	16.96	18.15	18.51	18.86	19.44	19.78	20.98