

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: P934665

Luminaire Tested: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3000K

Issue Date: 12/17/2024

**Test Information**

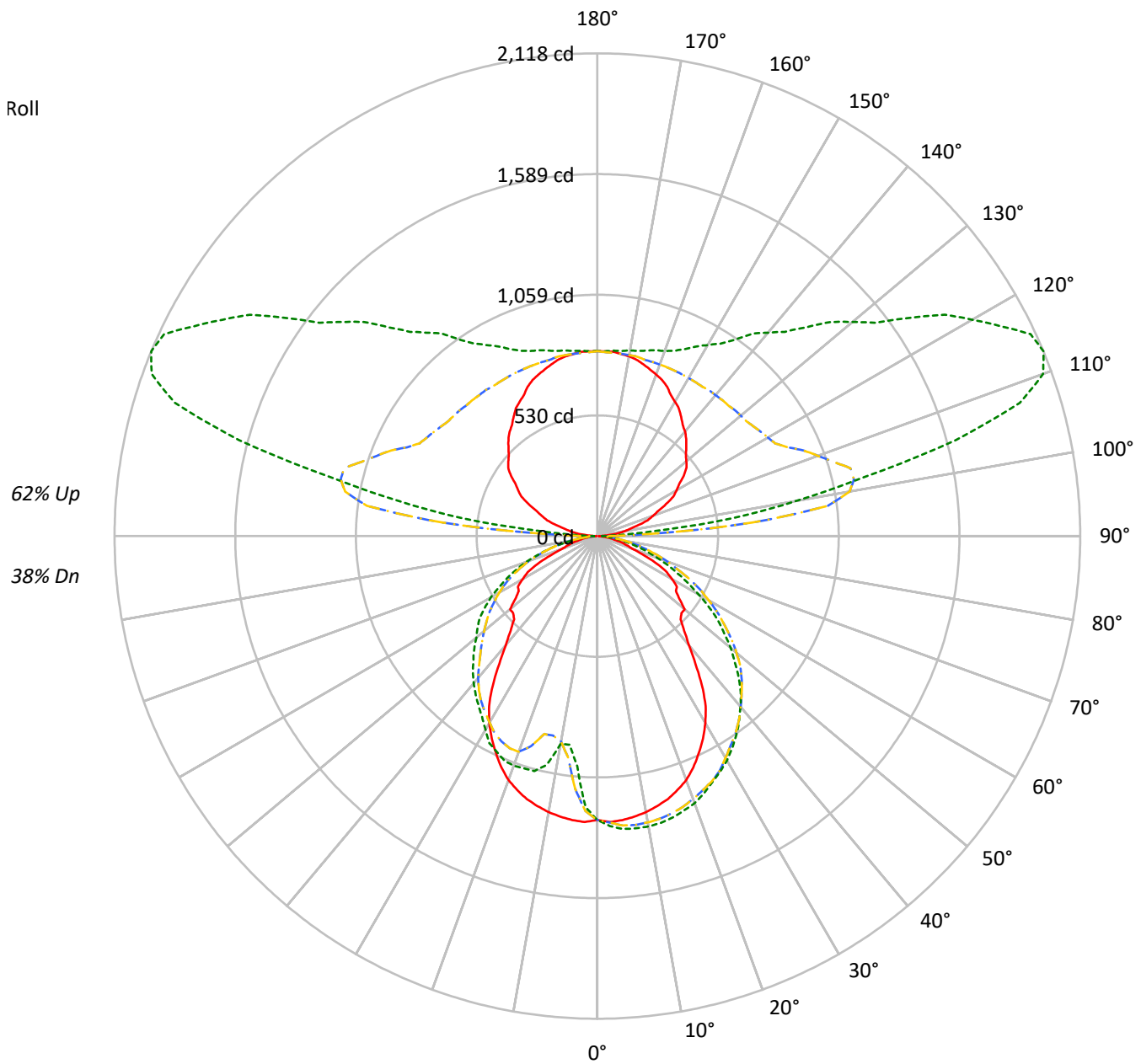
Test Method: LM-79-2019  
Report Number: P934665  
REPORT IS A COMBINATION OF REPORTS P933708 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3000K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8491.4 lumens  
Efficiency: N/A  
Efficacy: 123.4 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-Indirect  
  
Input Watts (W): 68.8  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT

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### Luminous Intensity Polar Plot



— 0°-180°    - - 45°-225°    - - - 90°-270°    - - - 135°-315°



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**COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:**

RF	20				20				20				20				20	
RC	80				70				50				30				10	0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																		
0	104	104	104	104	95	95	95	95	77	77	77	60	60	60	45	45	45	38
1	95	91	87	84	86	83	79	77	67	65	63	53	52	50	40	39	38	32
2	87	79	73	68	78	72	67	63	59	55	52	47	44	42	35	34	32	27
3	79	70	63	57	71	64	57	52	52	47	44	41	38	35	31	29	27	23
4	72	62	54	48	65	56	50	44	46	41	37	37	33	30	28	25	24	20
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17
6	61	49	41	35	55	45	38	33	37	32	28	30	26	23	23	20	18	15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	21	18	16	13
8	52	40	32	27	47	37	30	25	30	25	22	24	21	18	19	16	14	12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	11
10	45	33	26	22	41	31	24	20	26	21	17	21	17	14	16	14	12	10

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

	0°	90°	180°	270°
0°	5778	5778	5778	5778
5°	5820	5832	5820	4586
10°	5782	5745	5782	4107
15°	5719	5620	5719	4693
20°	5599	5473	5599	4703
25°	5354	5258	5354	4603
30°	5038	5080	5038	4384
35°	4491	4853	4491	4144
40°	3742	4587	3742	3962
45°	3344	4276	3344	3753
50°	3552	3905	3552	3544
55°	3342	3506	3342	3422
60°	3445	2977	3445	3134
65°	3123	2461	3123	2751
70°	2163	1962	2163	2306
75°	1898	1450	1898	1736
80°	1527	958	1527	1043
85°	880	508	880	432

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 5125 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.4	1.3
10°-20°	319.1	3.8
20°-30°	493.3	5.8
30°-40°	588.9	6.9
40°-50°	592.4	7.0
50°-60°	515.4	6.1
60°-70°	365.5	4.3
70°-80°	193.3	2.3
80°-90°	51.3	0.6
90°-100°	395.5	4.7
100°-110°	1039.8	12.2
110°-120°	1078.1	12.7
120°-130°	864.8	10.2
130°-140°	678.6	8.0
140°-150°	520.8	6.1
150°-160°	375.1	4.4
160°-170°	229.5	2.7
170°-180°	77.5	0.9
0°-30°	924.9	10.9
0°-40°	1513.8	17.8
0°-60°	2621.7	30.9
0°-90°	3231.7	38.1
90°-120°	2513.4	29.6
90°-150°	4577.6	53.9
90°-180°	5260.0	61.9
0°-180°	8491.4	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1245	1245	1245	1245	1245	
5°	1251	1290	1251	1014	1251	119
15°	1195	1278	1195	1067	1195	336
25°	1052	1192	1052	1044	1052	483
35°	800	1064	800	908	800	495
45°	516	876	516	769	516	413
55°	420	647	420	631	420	386
65°	292	390	292	436	292	279
75°	111	185	111	222	111	116
85°	19	47	19	40	19	25
90°	5	21	5	21	5	5
95°	52	239	52	239	52	58
105°	187	1628	187	1628	187	199
115°	333	2096	333	2096	333	329
125°	463	1670	463	1670	463	411
135°	552	1295	552	1295	552	427
145°	640	1051	640	1051	640	401
155°	723	905	723	905	723	332
165°	780	843	780	843	780	220
175°	811	817	811	817	811	77
180°	811	811	811	811	811	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1255.8	1255.8	1262.9	1265.3	1265.3	1261.7	1258.2	1261.7	1272.3	1275.8	1274.7
5°	1251.1	1260.5	1273.5	1275.8	1278.2	1277.0	1274.7	1277.0	1288.8	1291.2	1292.3
7.5°	1241.7	1259.4	1275.8	1279.4	1282.9	1279.4	1278.2	1280.6	1292.3	1294.7	1294.7
10°	1229.9	1254.7	1273.5	1275.8	1279.4	1275.8	1275.8	1280.6	1292.3	1294.7	1295.8
12.5°	1213.4	1247.5	1265.3	1267.6	1272.3	1271.2	1269.9	1274.7	1286.4	1288.8	1288.8
15°	1194.6	1234.6	1251.1	1253.4	1261.7	1259.4	1259.4	1264.1	1277.0	1280.6	1279.4
17.5°	1168.7	1218.1	1237.0	1240.5	1246.4	1245.3	1246.4	1251.1	1262.9	1265.3	1266.4
20°	1139.2	1195.7	1218.1	1221.6	1227.5	1227.5	1227.5	1233.4	1245.3	1249.9	1249.9
22.5°	1099.1	1172.2	1195.7	1198.1	1205.2	1205.2	1207.5	1215.7	1226.4	1227.5	1227.5
25°	1052.0	1146.3	1166.3	1173.3	1180.4	1183.9	1187.5	1192.2	1195.7	1194.6	1195.7
27.5°	1002.6	1113.2	1139.2	1143.9	1153.3	1156.9	1161.6	1162.8	1163.9	1167.4	1165.2
30°	947.2	1067.3	1106.2	1111.0	1126.2	1128.6	1123.9	1126.2	1132.1	1134.5	1136.9
32.5°	884.7	999.0	1072.1	1082.7	1096.8	1089.7	1088.6	1092.1	1101.5	1101.5	1103.8
35°	799.9	946.0	1040.3	1049.7	1060.3	1052.0	1056.8	1057.9	1063.8	1067.3	1066.2
37.5°	706.9	900.1	1007.2	1014.3	1022.6	1012.0	1019.0	1022.6	1027.3	1024.9	1024.9
40°	624.4	828.2	968.4	973.1	980.2	971.9	979.0	981.3	983.7	981.3	980.2
42.5°	563.1	749.3	927.1	933.0	928.3	934.2	936.5	941.3	937.8	933.0	933.0
45°	516.0	728.0	882.3	889.5	882.3	891.8	895.3	895.3	884.7	882.3	881.2
47.5°	500.7	685.6	837.6	837.6	834.0	845.9	851.8	843.5	832.9	829.4	829.4
50°	499.5	638.5	776.3	771.7	788.1	802.2	796.4	788.1	779.8	766.9	766.9
52.5°	453.6	580.8	697.5	715.1	741.0	749.3	739.8	731.6	717.5	711.5	706.9
55°	420.5	520.7	625.5	660.9	688.0	698.6	680.9	672.7	651.4	647.9	645.6
57.5°	413.5	433.5	559.6	604.4	637.3	636.2	625.5	610.2	592.6	589.1	587.8
60°	379.3	313.4	488.9	541.9	576.1	572.6	563.1	548.9	532.5	530.1	527.8
62.5°	344.0	227.4	408.8	468.8	517.1	516.0	507.7	486.6	474.7	468.8	464.2
65°	292.1	190.9	291.0	390.0	459.4	461.8	444.2	428.8	415.9	408.8	407.6
67.5°	222.6	155.5	196.7	325.1	404.1	401.7	379.3	372.3	355.8	352.3	345.2
70°	164.9	103.6	136.7	263.9	349.9	344.0	326.3	318.1	302.8	294.5	289.8
72.5°	136.7	83.6	100.1	205.0	294.5	287.5	272.1	262.7	249.8	242.7	237.9
75°	110.8	88.4	76.6	151.9	239.2	234.4	220.3	210.9	200.3	190.9	192.0
77.5°	81.3	82.5	61.2	111.9	189.7	182.6	174.3	162.6	157.8	148.4	148.4
80°	61.2	64.8	45.9	76.6	136.7	136.7	129.5	121.4	113.1	108.4	108.4
82.5°	41.2	41.2	34.2	48.3	93.1	89.5	84.8	82.5	77.7	75.4	75.4
85°	18.9	23.5	21.2	29.4	50.7	53.0	53.0	50.7	49.4	47.2	48.3
87.5°	5.9	10.6	13.0	16.5	25.9	27.1	28.3	28.3	28.3	29.4	29.4
90°	5.4	9.8	14.2	15.3	24.0	35.6	41.4	36.8	27.6	20.7	20.7
92.5°	21.8	58.8	95.9	105.1	147.8	204.6	233.1	204.3	146.7	103.5	99.3
95°	52.3	120.1	187.8	204.7	363.5	575.3	681.2	607.9	461.2	351.2	338.8
97.5°	90.4	150.2	210.0	224.9	489.7	842.8	1019.4	973.0	880.3	810.8	787.1
100°	119.8	174.0	228.3	241.8	535.7	927.5	1123.3	1126.8	1133.5	1138.6	1110.3
102.5°	144.8	195.4	246.0	258.7	556.7	954.1	1152.8	1211.8	1329.9	1418.5	1394.3
105°	187.3	230.2	273.0	283.7	572.3	957.1	1149.5	1281.9	1546.6	1745.2	1732.2
107.5°	230.9	270.9	310.7	320.8	575.2	914.5	1084.2	1268.8	1638.1	1915.1	1918.3
110°	260.3	296.3	332.3	341.4	570.8	876.7	1029.7	1236.1	1649.0	1958.7	1972.2



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	289.1	323.5	357.8	366.4	571.0	843.8	980.2	1191.5	1614.1	1930.9	1951.8
115°	332.7	364.4	396.1	404.0	576.3	805.9	920.8	1124.3	1531.4	1836.7	1865.6
117.5°	375.7	404.5	433.4	440.6	587.1	782.3	880.0	1063.6	1431.0	1706.5	1738.5
120°	400.8	427.8	455.0	461.7	595.7	774.3	863.6	1031.5	1367.2	1618.9	1650.0
122.5°	425.3	452.7	480.0	486.8	608.2	770.1	851.1	1002.2	1304.5	1531.2	1561.9
125°	462.9	487.8	512.7	518.9	625.1	766.7	837.5	965.9	1222.6	1415.2	1443.5
127.5°	493.3	518.5	543.7	550.0	642.0	764.7	826.0	936.3	1156.7	1322.1	1345.9
130°	509.7	536.7	563.9	570.6	654.3	766.0	821.7	919.8	1116.1	1263.3	1285.4
132.5°	526.5	553.7	580.8	587.6	664.3	766.7	817.9	905.7	1081.5	1213.2	1233.0
135°	551.6	576.3	601.0	607.2	675.2	766.0	811.4	885.0	1032.1	1142.4	1159.4
137.5°	577.2	601.6	626.1	632.2	691.6	770.7	810.2	872.4	996.9	1090.1	1104.0
140°	598.5	621.0	643.4	649.1	701.5	771.5	806.5	860.2	967.6	1048.3	1061.3
142.5°	614.8	635.6	656.4	661.6	709.9	774.3	806.5	853.6	948.0	1018.8	1030.0
145°	639.8	658.0	676.1	680.7	720.8	774.3	801.0	839.7	916.9	974.7	983.2
147.5°	664.9	682.5	700.3	704.7	736.8	779.6	801.0	831.4	892.1	937.7	944.7
150°	681.2	697.2	713.2	717.1	745.1	782.4	801.0	826.7	877.9	916.4	922.1
152.5°	698.1	710.2	722.3	725.3	750.5	784.1	801.0	822.9	866.7	899.6	903.9
155°	723.1	732.1	741.0	743.3	762.5	788.2	801.0	818.4	853.3	879.4	882.3
157.5°	741.6	750.3	759.0	761.2	774.5	792.1	801.0	814.5	841.7	862.0	864.0
160°	754.2	761.0	767.7	769.4	779.9	794.0	801.0	812.6	835.9	853.3	854.4
162.5°	766.7	771.8	776.9	778.2	785.8	795.9	801.0	810.8	830.4	845.1	846.2
165°	780.3	784.8	789.5	790.6	794.1	798.7	801.0	808.0	822.1	832.6	833.8
167.5°	792.8	795.0	797.2	797.8	800.7	804.5	806.5	811.0	820.2	827.2	827.6
170°	801.0	803.2	805.4	805.9	806.1	806.4	806.5	811.0	820.2	827.2	827.2
172.5°	805.4	805.8	806.4	806.5	806.5	806.5	806.5	810.1	817.3	822.8	822.4
175°	811.4	811.4	811.4	811.4	809.7	807.5	806.5	808.7	813.4	816.8	816.8
177.5°	811.4	811.4	811.4	811.4	810.1	808.4	807.5	809.4	813.0	815.7	815.2
180°	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1277.0	1273.5	1277.0	1274.7	1275.8	1272.3	1261.7	1258.2	1261.7	1265.3	1265.3
5°	1292.3	1290.0	1292.3	1292.3	1291.2	1288.8	1277.0	1274.7	1277.0	1278.2	1275.8
7.5°	1297.1	1293.6	1297.1	1294.7	1294.7	1292.3	1280.6	1278.2	1279.4	1282.9	1279.4
10°	1297.1	1293.6	1297.1	1295.8	1294.7	1292.3	1280.6	1275.8	1275.8	1279.4	1275.8
12.5°	1291.2	1288.8	1291.2	1288.8	1288.8	1286.4	1274.7	1269.9	1271.2	1272.3	1267.6
15°	1281.7	1278.2	1281.7	1279.4	1280.6	1277.0	1264.1	1259.4	1259.4	1261.7	1253.4
17.5°	1267.6	1262.9	1267.6	1266.4	1265.3	1262.9	1251.1	1246.4	1245.3	1246.4	1240.5
20°	1251.1	1247.5	1251.1	1249.9	1249.9	1245.3	1233.4	1227.5	1227.5	1227.5	1221.6
22.5°	1225.2	1221.6	1225.2	1227.5	1227.5	1226.4	1215.7	1207.5	1205.2	1205.2	1198.1
25°	1195.7	1192.2	1195.7	1195.7	1194.6	1195.7	1192.2	1187.5	1183.9	1180.4	1173.3
27.5°	1167.4	1165.2	1167.4	1165.2	1167.4	1163.9	1162.8	1161.6	1156.9	1153.3	1143.9
30°	1139.2	1136.9	1139.2	1136.9	1134.5	1132.1	1126.2	1123.9	1128.6	1126.2	1111.0
32.5°	1103.8	1101.5	1103.8	1103.8	1101.5	1101.5	1092.1	1088.6	1089.7	1096.8	1082.7
35°	1067.3	1063.8	1067.3	1066.2	1067.3	1063.8	1057.9	1056.8	1052.0	1060.3	1049.7
37.5°	1024.9	1021.4	1024.9	1024.9	1024.9	1027.3	1022.6	1019.0	1012.0	1022.6	1014.3
40°	981.3	976.6	981.3	980.2	981.3	983.7	981.3	979.0	971.9	980.2	973.1
42.5°	931.9	930.6	931.9	933.0	933.0	937.8	941.3	936.5	934.2	928.3	933.0
45°	878.8	876.5	878.8	881.2	882.3	884.7	895.3	895.3	891.8	882.3	889.5
47.5°	822.3	816.4	822.3	829.4	829.4	832.9	843.5	851.8	845.9	834.0	837.6
50°	762.2	763.4	762.2	766.9	766.9	779.8	788.1	796.4	802.2	788.1	771.7
52.5°	703.3	702.1	703.3	706.9	711.5	717.5	731.6	739.8	749.3	741.0	715.1
55°	644.4	646.8	644.4	645.6	647.9	651.4	672.7	680.9	698.6	688.0	660.9
57.5°	585.5	582.0	585.5	587.8	589.1	592.6	610.2	625.5	636.2	637.3	604.4
60°	517.1	512.5	517.1	527.8	530.1	532.5	548.9	563.1	572.6	576.1	541.9
62.5°	457.1	448.8	457.1	464.2	468.8	474.7	486.6	507.7	516.0	517.1	468.8
65°	393.5	390.0	393.5	407.6	408.8	415.9	428.8	444.2	461.8	459.4	390.0
67.5°	335.8	335.8	335.8	345.2	352.3	355.8	372.3	379.3	401.7	404.1	325.1
70°	282.7	281.6	282.7	289.8	294.5	302.8	318.1	326.3	344.0	349.9	263.9
72.5°	232.0	230.9	232.0	237.9	242.7	249.8	262.7	272.1	287.5	294.5	205.0
75°	187.3	185.0	187.3	192.0	190.9	200.3	210.9	220.3	234.4	239.2	151.9
77.5°	143.7	143.7	143.7	148.4	148.4	157.8	162.6	174.3	182.6	189.7	111.9
80°	107.2	106.0	107.2	108.4	108.4	113.1	121.4	129.5	136.7	136.7	76.6
82.5°	75.4	73.1	75.4	75.4	75.4	77.7	82.5	84.8	89.5	93.1	48.3
85°	47.2	47.2	47.2	48.3	47.2	49.4	50.7	53.0	53.0	50.7	29.4
87.5°	30.7	29.4	30.7	29.4	29.4	28.3	28.3	28.3	27.1	25.9	16.5
90°	20.7	20.7	20.7	20.7	20.7	27.6	36.8	41.4	35.6	24.0	15.3
92.5°	82.9	66.4	82.9	99.3	103.5	146.7	204.3	233.1	204.6	147.8	105.1
95°	289.0	239.1	289.0	338.8	351.2	461.2	607.9	681.2	575.3	363.5	204.7
97.5°	692.2	597.3	692.2	787.1	810.8	880.3	973.0	1019.4	842.8	489.7	224.9
100°	997.4	884.4	997.4	1110.3	1138.6	1133.5	1126.8	1123.3	927.5	535.7	241.8
102.5°	1297.5	1200.7	1297.5	1394.3	1418.5	1329.9	1211.8	1152.8	954.1	556.7	258.7
105°	1680.1	1628.1	1680.1	1732.2	1745.2	1546.6	1281.9	1149.5	957.1	572.3	283.7
107.5°	1930.9	1943.4	1930.9	1918.3	1915.1	1638.1	1268.8	1084.2	914.5	575.2	320.8
110°	2026.5	2080.7	2026.5	1972.2	1958.7	1649.0	1236.1	1029.7	876.7	570.8	341.4





TEST NUMBER: P934665

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2034.9	2118.2	2034.9	1951.8	1930.9	1614.1	1191.5	980.2	843.8	571.0	366.4
115°	1981.0	2096.4	1981.0	1865.6	1836.7	1531.4	1124.3	920.8	805.9	576.3	404.0
117.5°	1866.6	1994.6	1866.6	1738.5	1706.5	1431.0	1063.6	880.0	782.3	587.1	440.6
120°	1774.4	1898.8	1774.4	1650.0	1618.9	1367.2	1031.5	863.6	774.3	595.7	461.7
122.5°	1684.6	1807.3	1684.6	1561.9	1531.2	1304.5	1002.2	851.1	770.1	608.2	486.8
125°	1556.5	1669.6	1556.5	1443.5	1415.2	1222.6	965.9	837.5	766.7	625.1	518.9
127.5°	1441.3	1536.7	1441.3	1345.9	1322.1	1156.7	936.3	826.0	764.7	642.0	550.0
130°	1373.4	1461.5	1373.4	1285.4	1263.3	1116.1	919.8	821.7	766.0	654.3	570.6
132.5°	1311.8	1390.7	1311.8	1233.0	1213.2	1081.5	905.7	817.9	766.7	664.3	587.6
135°	1227.4	1295.4	1227.4	1159.4	1142.4	1032.1	885.0	811.4	766.0	675.2	607.2
137.5°	1159.7	1215.4	1159.7	1104.0	1090.1	996.9	872.4	810.2	770.7	691.6	632.2
140°	1113.3	1165.3	1113.3	1061.3	1048.3	967.6	860.2	806.5	771.5	701.5	649.1
142.5°	1074.8	1119.6	1074.8	1030.0	1018.8	948.0	853.6	806.5	774.3	709.9	661.6
145°	1017.1	1051.0	1017.1	983.2	974.7	916.9	839.7	801.0	774.3	720.8	680.7
147.5°	972.7	1000.8	972.7	944.7	937.7	892.1	831.4	801.0	779.6	736.8	704.7
150°	944.9	967.6	944.9	922.1	916.4	877.9	826.7	801.0	782.4	745.1	717.1
152.5°	921.0	938.2	921.0	903.9	899.6	866.7	822.9	801.0	784.1	750.5	725.3
155°	893.7	905.0	893.7	882.3	879.4	853.3	818.4	801.0	788.2	762.5	743.3
157.5°	872.0	880.0	872.0	864.0	862.0	841.7	814.5	801.0	792.1	774.5	761.2
160°	859.1	863.6	859.1	854.4	853.3	835.9	812.6	801.0	794.0	779.9	769.4
162.5°	850.5	854.9	850.5	846.2	845.1	830.4	810.8	801.0	795.9	785.8	778.2
165°	838.3	842.9	838.3	833.8	832.6	822.1	808.0	801.0	798.7	794.1	790.6
167.5°	829.6	831.5	829.6	827.6	827.2	820.2	811.0	806.5	804.5	800.7	797.8
170°	827.2	827.2	827.2	827.2	827.2	820.2	811.0	806.5	806.4	806.1	805.9
172.5°	820.7	819.0	820.7	822.4	822.8	817.3	810.1	806.5	806.5	806.5	806.5
175°	816.8	816.8	816.8	816.8	816.8	813.4	808.7	806.5	807.5	809.7	811.4
177.5°	813.3	811.4	813.3	815.2	815.7	813.0	809.4	807.5	808.4	810.1	811.4
180°	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4



TEST NUMBER: P934665

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1262.9	1255.8	1255.8	1244.0	1239.4	1235.8	1229.9	1212.2	1207.5	1202.8	1209.9
5°	1273.5	1260.5	1251.1	1229.9	1212.2	1205.2	1182.8	1140.4	1112.1	1090.8	1079.1
7.5°	1275.8	1259.4	1241.7	1208.7	1166.3	1147.4	1079.1	1001.4	980.2	961.3	949.5
10°	1273.5	1254.7	1229.9	1180.4	1080.3	1047.3	979.0	928.3	915.4	911.9	915.4
12.5°	1265.3	1247.5	1213.4	1131.0	990.7	968.4	928.3	898.9	896.5	902.4	934.2
15°	1251.1	1234.6	1194.6	1064.9	941.3	924.8	896.5	885.9	898.9	940.1	1035.5
17.5°	1237.0	1218.1	1168.7	1000.2	903.6	891.8	871.8	893.0	966.0	1021.4	1053.2
20°	1218.1	1195.7	1139.2	953.0	876.5	865.9	856.4	951.9	1007.2	1027.3	1044.9
22.5°	1195.7	1172.2	1099.1	920.1	848.2	840.0	845.9	984.8	1007.2	1021.4	1036.7
25°	1166.3	1146.3	1052.0	894.2	825.9	816.4	838.8	981.3	994.3	997.8	1028.5
27.5°	1139.2	1113.2	1002.6	870.6	798.7	795.2	844.7	966.0	975.4	979.0	1012.0
30°	1106.2	1067.3	947.2	845.9	770.4	769.3	845.9	947.2	944.8	954.3	987.2
32.5°	1072.1	999.0	884.7	815.2	743.4	742.2	837.6	918.9	916.5	929.5	954.3
35°	1040.3	946.0	799.9	779.8	709.2	710.4	817.6	885.9	887.1	898.9	914.2
37.5°	1007.2	900.1	706.9	741.0	676.2	676.2	790.5	855.3	852.9	856.4	877.7
40°	968.4	828.2	624.4	690.3	645.6	642.0	757.5	822.3	814.0	812.9	842.3
42.5°	927.1	749.3	563.1	623.2	610.2	605.5	717.5	782.2	766.9	770.4	808.1
45°	882.3	728.0	516.0	526.6	573.7	570.2	673.8	736.3	725.7	735.1	774.0
47.5°	837.6	685.6	500.7	437.0	534.9	533.7	625.5	691.5	685.6	695.1	736.3
50°	776.3	638.5	499.5	374.6	491.2	496.0	567.8	647.9	647.9	656.2	699.7
52.5°	697.5	580.8	453.6	339.3	440.6	454.7	517.1	610.2	612.6	620.9	659.7
55°	625.5	520.7	420.5	312.1	380.5	411.1	467.7	571.3	576.1	584.3	619.6
57.5°	559.6	433.5	413.5	280.4	325.1	354.6	424.1	533.7	536.0	543.1	577.2
60°	488.9	313.4	379.3	246.2	276.8	299.2	384.1	488.9	497.1	501.9	531.3
62.5°	408.8	227.4	344.0	222.6	253.3	258.0	351.1	446.5	457.1	460.7	478.3
65°	291.0	190.9	292.1	202.6	228.5	229.8	315.7	402.9	412.4	418.2	431.2
67.5°	196.7	155.5	222.6	183.7	209.7	210.9	281.6	352.3	365.2	369.9	378.2
70°	136.7	103.6	164.9	163.7	188.5	190.9	245.0	306.3	318.1	321.6	326.3
72.5°	100.1	83.6	136.7	147.3	166.1	168.5	207.4	254.4	266.2	269.8	272.1
75°	76.6	88.4	110.8	128.4	141.4	142.5	169.6	207.4	215.6	217.9	219.1
77.5°	61.2	82.5	81.3	103.6	115.4	113.1	133.2	160.2	167.3	167.3	167.3
80°	45.9	64.8	61.2	74.2	84.8	82.5	95.4	114.3	116.6	119.0	117.8
82.5°	34.2	41.2	41.2	47.2	56.6	54.2	63.6	74.2	74.2	74.2	76.6
85°	21.2	23.5	18.9	24.8	31.8	30.7	35.3	40.1	41.2	41.2	38.9
87.5°	13.0	10.6	5.9	9.4	14.1	14.1	16.5	17.7	16.5	16.5	16.5
90°	14.2	9.8	5.4	9.8	14.2	15.3	24.0	35.6	41.4	36.8	27.6
92.5°	95.9	58.8	21.8	58.8	95.9	105.1	147.8	204.6	233.1	204.3	146.7
95°	187.8	120.1	52.3	120.1	187.8	204.7	363.5	575.3	681.2	607.9	461.2
97.5°	210.0	150.2	90.4	150.2	210.0	224.9	489.7	842.8	1019.4	973.0	880.3
100°	228.3	174.0	119.8	174.0	228.3	241.8	535.7	927.5	1123.3	1126.8	1133.5
102.5°	246.0	195.4	144.8	195.4	246.0	258.7	556.7	954.1	1152.8	1211.8	1329.9
105°	273.0	230.2	187.3	230.2	273.0	283.7	572.3	957.1	1149.5	1281.9	1546.6
107.5°	310.7	270.9	230.9	270.9	310.7	320.8	575.2	914.5	1084.2	1268.8	1638.1
110°	332.3	296.3	260.3	296.3	332.3	341.4	570.8	876.7	1029.7	1236.1	1649.0



TEST NUMBER: P934665

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	357.8	323.5	289.1	323.5	357.8	366.4	571.0	843.8	980.2	1191.5	1614.1
115°	396.1	364.4	332.7	364.4	396.1	404.0	576.3	805.9	920.8	1124.3	1531.4
117.5°	433.4	404.5	375.7	404.5	433.4	440.6	587.1	782.3	880.0	1063.6	1431.0
120°	455.0	427.8	400.8	427.8	455.0	461.7	595.7	774.3	863.6	1031.5	1367.2
122.5°	480.0	452.7	425.3	452.7	480.0	486.8	608.2	770.1	851.1	1002.2	1304.5
125°	512.7	487.8	462.9	487.8	512.7	518.9	625.1	766.7	837.5	965.9	1222.6
127.5°	543.7	518.5	493.3	518.5	543.7	550.0	642.0	764.7	826.0	936.3	1156.7
130°	563.9	536.7	509.7	536.7	563.9	570.6	654.3	766.0	821.7	919.8	1116.1
132.5°	580.8	553.7	526.5	553.7	580.8	587.6	664.3	766.7	817.9	905.7	1081.5
135°	601.0	576.3	551.6	576.3	601.0	607.2	675.2	766.0	811.4	885.0	1032.1
137.5°	626.1	601.6	577.2	601.6	626.1	632.2	691.6	770.7	810.2	872.4	996.9
140°	643.4	621.0	598.5	621.0	643.4	649.1	701.5	771.5	806.5	860.2	967.6
142.5°	656.4	635.6	614.8	635.6	656.4	661.6	709.9	774.3	806.5	853.6	948.0
145°	676.1	658.0	639.8	658.0	676.1	680.7	720.8	774.3	801.0	839.7	916.9
147.5°	700.3	682.5	664.9	682.5	700.3	704.7	736.8	779.6	801.0	831.4	892.1
150°	713.2	697.2	681.2	697.2	713.2	717.1	745.1	782.4	801.0	826.7	877.9
152.5°	722.3	710.2	698.1	710.2	722.3	725.3	750.5	784.1	801.0	822.9	866.7
155°	741.0	732.1	723.1	732.1	741.0	743.3	762.5	788.2	801.0	818.4	853.3
157.5°	759.0	750.3	741.6	750.3	759.0	761.2	774.5	792.1	801.0	814.5	841.7
160°	767.7	761.0	754.2	761.0	767.7	769.4	779.9	794.0	801.0	812.6	835.9
162.5°	776.9	771.8	766.7	771.8	776.9	778.2	785.8	795.9	801.0	810.8	830.4
165°	789.5	784.8	780.3	784.8	789.5	790.6	794.1	798.7	801.0	808.0	822.1
167.5°	797.2	795.0	792.8	795.0	797.2	797.8	800.7	804.5	806.5	811.0	820.2
170°	805.4	803.2	801.0	803.2	805.4	805.9	806.1	806.4	806.5	811.0	820.2
172.5°	806.4	805.8	805.4	805.8	806.4	806.5	806.5	806.5	806.5	810.1	817.3
175°	811.4	811.4	811.4	811.4	811.4	811.4	809.7	807.5	806.5	808.7	813.4
177.5°	811.4	811.4	811.4	811.4	811.4	811.4	810.1	808.4	807.5	809.4	813.0
180°	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4



TEST NUMBER: P934665

CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1201.6	1198.1	1202.8	1189.8	1202.8	1198.1	1201.6	1209.9	1202.8	1207.5	1212.2
5°	1054.4	1048.5	1029.6	1014.3	1029.6	1048.5	1054.4	1079.1	1090.8	1112.1	1140.4
7.5°	942.4	937.8	933.0	923.6	933.0	937.8	942.4	949.5	961.3	980.2	1001.4
10°	917.7	918.9	926.0	924.8	926.0	918.9	917.7	915.4	911.9	915.4	928.3
12.5°	981.3	992.0	1030.8	1028.5	1030.8	992.0	981.3	934.2	902.4	896.5	898.9
15°	1054.4	1057.9	1066.2	1067.3	1066.2	1057.9	1054.4	1035.5	940.1	898.9	885.9
17.5°	1061.4	1062.7	1068.5	1068.5	1068.5	1062.7	1061.4	1053.2	1021.4	966.0	893.0
20°	1055.5	1057.9	1069.7	1072.1	1069.7	1057.9	1055.5	1044.9	1027.3	1007.2	951.9
22.5°	1053.2	1057.9	1067.3	1066.2	1067.3	1057.9	1053.2	1036.7	1021.4	1007.2	984.8
25°	1041.4	1041.4	1042.6	1043.8	1042.6	1041.4	1041.4	1028.5	997.8	994.3	981.3
27.5°	1016.6	1019.0	1026.1	1024.9	1026.1	1019.0	1016.6	1012.0	979.0	975.4	966.0
30°	994.3	992.0	986.1	981.3	986.1	992.0	994.3	987.2	954.3	944.8	947.2
32.5°	956.6	950.7	944.8	941.3	944.8	950.7	956.6	954.3	929.5	916.5	918.9
35°	911.9	913.0	911.9	908.3	911.9	913.0	911.9	914.2	898.9	887.1	885.9
37.5°	880.1	882.3	881.2	876.5	881.2	882.3	880.1	877.7	856.4	852.9	855.3
40°	847.0	848.2	847.0	843.5	847.0	848.2	847.0	842.3	812.9	814.0	822.3
42.5°	815.2	814.0	810.5	808.1	810.5	814.0	815.2	808.1	770.4	766.9	782.2
45°	778.7	779.8	772.8	769.3	772.8	779.8	778.7	774.0	735.1	725.7	736.3
47.5°	742.2	742.2	736.3	732.8	736.3	742.2	742.2	736.3	695.1	685.6	691.5
50°	703.3	702.1	693.9	692.7	693.9	702.1	703.3	699.7	656.2	647.9	647.9
52.5°	658.6	658.6	659.7	662.1	659.7	658.6	658.6	659.7	620.9	612.6	610.2
55°	619.6	620.9	629.1	631.4	629.1	620.9	619.6	619.6	584.3	576.1	571.3
57.5°	579.6	579.6	585.5	585.5	585.5	579.6	579.6	577.2	543.1	536.0	533.7
60°	533.7	536.0	540.8	539.5	540.8	536.0	533.7	531.3	501.9	497.1	488.9
62.5°	485.3	487.7	488.9	486.6	488.9	487.7	485.3	478.3	460.7	457.1	446.5
65°	434.7	437.0	438.3	435.9	438.3	437.0	434.7	431.2	418.2	412.4	402.9
67.5°	382.9	381.7	380.5	385.2	380.5	381.7	382.9	378.2	369.9	365.2	352.3
70°	329.9	329.9	328.7	331.0	328.7	329.9	329.9	326.3	321.6	318.1	306.3
72.5°	273.3	272.1	276.8	273.3	276.8	272.1	273.3	272.1	269.8	266.2	254.4
75°	217.9	220.3	217.9	221.5	217.9	220.3	217.9	219.1	217.9	215.6	207.4
77.5°	166.1	168.5	166.1	166.1	166.1	168.5	166.1	167.3	167.3	167.3	160.2
80°	117.8	116.6	116.6	115.4	116.6	116.6	117.8	117.8	119.0	116.6	114.3
82.5°	75.4	74.2	74.2	76.6	74.2	74.2	75.4	76.6	74.2	74.2	74.2
85°	41.2	42.4	40.1	40.1	40.1	42.4	41.2	38.9	41.2	41.2	40.1
87.5°	15.3	14.1	14.1	14.1	14.1	14.1	15.3	16.5	16.5	16.5	17.7
90°	20.7	20.7	20.7	20.7	20.7	20.7	20.7	27.6	36.8	41.4	35.6
92.5°	103.5	99.3	82.9	66.4	82.9	99.3	103.5	146.7	204.3	233.1	204.6
95°	351.2	338.8	289.0	239.1	289.0	338.8	351.2	461.2	607.9	681.2	575.3
97.5°	810.8	787.1	692.2	597.3	692.2	787.1	810.8	880.3	973.0	1019.4	842.8
100°	1138.6	1110.3	997.4	884.4	997.4	1110.3	1138.6	1133.5	1126.8	1123.3	927.5
102.5°	1418.5	1394.3	1297.5	1200.7	1297.5	1394.3	1418.5	1329.9	1211.8	1152.8	954.1
105°	1745.2	1732.2	1680.1	1628.1	1680.1	1732.2	1745.2	1546.6	1281.9	1149.5	957.1
107.5°	1915.1	1918.3	1930.9	1943.4	1930.9	1918.3	1915.1	1638.1	1268.8	1084.2	914.5
110°	1958.7	1972.2	2026.5	2080.7	2026.5	1972.2	1958.7	1649.0	1236.1	1029.7	876.7



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	1930.9	1951.8	2034.9	2118.2	2034.9	1951.8	1930.9	1614.1	1191.5	980.2	843.8
115°	1836.7	1865.6	1981.0	2096.4	1981.0	1865.6	1836.7	1531.4	1124.3	920.8	805.9
117.5°	1706.5	1738.5	1866.6	1994.6	1866.6	1738.5	1706.5	1431.0	1063.6	880.0	782.3
120°	1618.9	1650.0	1774.4	1898.8	1774.4	1650.0	1618.9	1367.2	1031.5	863.6	774.3
122.5°	1531.2	1561.9	1684.6	1807.3	1684.6	1561.9	1531.2	1304.5	1002.2	851.1	770.1
125°	1415.2	1443.5	1556.5	1669.6	1556.5	1443.5	1415.2	1222.6	965.9	837.5	766.7
127.5°	1322.1	1345.9	1441.3	1536.7	1441.3	1345.9	1322.1	1156.7	936.3	826.0	764.7
130°	1263.3	1285.4	1373.4	1461.5	1373.4	1285.4	1263.3	1116.1	919.8	821.7	766.0
132.5°	1213.2	1233.0	1311.8	1390.7	1311.8	1233.0	1213.2	1081.5	905.7	817.9	766.7
135°	1142.4	1159.4	1227.4	1295.4	1227.4	1159.4	1142.4	1032.1	885.0	811.4	766.0
137.5°	1090.1	1104.0	1159.7	1215.4	1159.7	1104.0	1090.1	996.9	872.4	810.2	770.7
140°	1048.3	1061.3	1113.3	1165.3	1113.3	1061.3	1048.3	967.6	860.2	806.5	771.5
142.5°	1018.8	1030.0	1074.8	1119.6	1074.8	1030.0	1018.8	948.0	853.6	806.5	774.3
145°	974.7	983.2	1017.1	1051.0	1017.1	983.2	974.7	916.9	839.7	801.0	774.3
147.5°	937.7	944.7	972.7	1000.8	972.7	944.7	937.7	892.1	831.4	801.0	779.6
150°	916.4	922.1	944.9	967.6	944.9	922.1	916.4	877.9	826.7	801.0	782.4
152.5°	899.6	903.9	921.0	938.2	921.0	903.9	899.6	866.7	822.9	801.0	784.1
155°	879.4	882.3	893.7	905.0	893.7	882.3	879.4	853.3	818.4	801.0	788.2
157.5°	862.0	864.0	872.0	880.0	872.0	864.0	862.0	841.7	814.5	801.0	792.1
160°	853.3	854.4	859.1	863.6	859.1	854.4	853.3	835.9	812.6	801.0	794.0
162.5°	845.1	846.2	850.5	854.9	850.5	846.2	845.1	830.4	810.8	801.0	795.9
165°	832.6	833.8	838.3	842.9	838.3	833.8	832.6	822.1	808.0	801.0	798.7
167.5°	827.2	827.6	829.6	831.5	829.6	827.6	827.2	820.2	811.0	806.5	804.5
170°	827.2	827.2	827.2	827.2	827.2	827.2	827.2	820.2	811.0	806.5	806.4
172.5°	822.8	822.4	820.7	819.0	820.7	822.4	822.8	817.3	810.1	806.5	806.5
175°	816.8	816.8	816.8	816.8	816.8	816.8	816.8	813.4	808.7	806.5	807.5
177.5°	815.7	815.2	813.3	811.4	813.3	815.2	815.7	813.0	809.4	807.5	808.4
180°	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4	811.4



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1245.3	1245.3	1245.3	1245.3	1245.3
2.5°	1229.9	1235.8	1239.4	1244.0	1255.8
5°	1182.8	1205.2	1212.2	1229.9	1251.1
7.5°	1079.1	1147.4	1166.3	1208.7	1241.7
10°	979.0	1047.3	1080.3	1180.4	1229.9
12.5°	928.3	968.4	990.7	1131.0	1213.4
15°	896.5	924.8	941.3	1064.9	1194.6
17.5°	871.8	891.8	903.6	1000.2	1168.7
20°	856.4	865.9	876.5	953.0	1139.2
22.5°	845.9	840.0	848.2	920.1	1099.1
25°	838.8	816.4	825.9	894.2	1052.0
27.5°	844.7	795.2	798.7	870.6	1002.6
30°	845.9	769.3	770.4	845.9	947.2
32.5°	837.6	742.2	743.4	815.2	884.7
35°	817.6	710.4	709.2	779.8	799.9
37.5°	790.5	676.2	676.2	741.0	706.9
40°	757.5	642.0	645.6	690.3	624.4
42.5°	717.5	605.5	610.2	623.2	563.1
45°	673.8	570.2	573.7	526.6	516.0
47.5°	625.5	533.7	534.9	437.0	500.7
50°	567.8	496.0	491.2	374.6	499.5
52.5°	517.1	454.7	440.6	339.3	453.6
55°	467.7	411.1	380.5	312.1	420.5
57.5°	424.1	354.6	325.1	280.4	413.5
60°	384.1	299.2	276.8	246.2	379.3
62.5°	351.1	258.0	253.3	222.6	344.0
65°	315.7	229.8	228.5	202.6	292.1
67.5°	281.6	210.9	209.7	183.7	222.6
70°	245.0	190.9	188.5	163.7	164.9
72.5°	207.4	168.5	166.1	147.3	136.7
75°	169.6	142.5	141.4	128.4	110.8
77.5°	133.2	113.1	115.4	103.6	81.3
80°	95.4	82.5	84.8	74.2	61.2
82.5°	63.6	54.2	56.6	47.2	41.2
85°	35.3	30.7	31.8	24.8	18.9
87.5°	16.5	14.1	14.1	9.4	5.9
90°	24.0	15.3	14.2	9.8	5.4
92.5°	147.8	105.1	95.9	58.8	21.8
95°	363.5	204.7	187.8	120.1	52.3
97.5°	489.7	224.9	210.0	150.2	90.4
100°	535.7	241.8	228.3	174.0	119.8
102.5°	556.7	258.7	246.0	195.4	144.8
105°	572.3	283.7	273.0	230.2	187.3
107.5°	575.2	320.8	310.7	270.9	230.9
110°	570.8	341.4	332.3	296.3	260.3



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CATALOG NUMBER: SQ4-FA-075U-050D-93050-1D-UNV-STD-W-8-3000K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	571.0	366.4	357.8	323.5	289.1
115°	576.3	404.0	396.1	364.4	332.7
117.5°	587.1	440.6	433.4	404.5	375.7
120°	595.7	461.7	455.0	427.8	400.8
122.5°	608.2	486.8	480.0	452.7	425.3
125°	625.1	518.9	512.7	487.8	462.9
127.5°	642.0	550.0	543.7	518.5	493.3
130°	654.3	570.6	563.9	536.7	509.7
132.5°	664.3	587.6	580.8	553.7	526.5
135°	675.2	607.2	601.0	576.3	551.6
137.5°	691.6	632.2	626.1	601.6	577.2
140°	701.5	649.1	643.4	621.0	598.5
142.5°	709.9	661.6	656.4	635.6	614.8
145°	720.8	680.7	676.1	658.0	639.8
147.5°	736.8	704.7	700.3	682.5	664.9
150°	745.1	717.1	713.2	697.2	681.2
152.5°	750.5	725.3	722.3	710.2	698.1
155°	762.5	743.3	741.0	732.1	723.1
157.5°	774.5	761.2	759.0	750.3	741.6
160°	779.9	769.4	767.7	761.0	754.2
162.5°	785.8	778.2	776.9	771.8	766.7
165°	794.1	790.6	789.5	784.8	780.3
167.5°	800.7	797.8	797.2	795.0	792.8
170°	806.1	805.9	805.4	803.2	801.0
172.5°	806.5	806.5	806.4	805.8	805.4
175°	809.7	811.4	811.4	811.4	811.4
177.5°	810.1	811.4	811.4	811.4	811.4
180°	811.4	811.4	811.4	811.4	811.4



TEST NUMBER: P934665  
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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	9.68	10.45	10.74	11.51	12.94	12.52	13.29	13.58	14.34	15.77
	3H	10.15	10.84	11.22	11.90	13.35	13.86	14.55	14.93	15.61	17.06
	4H	10.34	10.99	11.41	12.06	13.51	14.30	14.95	15.38	16.02	17.48
	6H	10.45	11.05	11.54	12.12	13.59	14.59	15.18	15.67	16.25	17.72
	8H	10.45	11.02	11.54	12.11	13.57	14.66	15.23	15.75	16.31	17.78
	12H	10.42	10.96	11.51	12.04	13.53	14.69	15.23	15.79	16.32	17.80
4H	2H	10.71	11.36	11.79	12.42	13.88	12.92	13.57	14.00	14.64	16.09
	3H	11.72	12.27	12.81	13.36	14.83	14.42	14.96	15.51	16.05	17.52
	4H	12.00	12.49	13.09	13.58	15.07	14.94	15.44	16.04	16.52	18.02
	6H	12.12	12.54	13.22	13.65	15.13	15.31	15.73	16.41	16.84	18.32
	8H	12.12	12.52	13.22	13.62	15.12	15.41	15.81	16.51	16.91	18.41
	12H	12.08	12.44	13.20	13.55	15.06	15.46	15.82	16.58	16.94	18.44
8H	4H	12.44	12.84	13.55	13.94	15.44	15.06	15.46	16.16	16.56	18.06
	6H	12.70	13.03	13.83	14.17	15.67	15.49	15.82	16.62	16.96	18.46
	8H	12.74	13.03	13.87	14.15	15.67	15.65	15.93	16.78	17.06	18.58
	12H	12.72	12.97	13.86	14.09	15.65	15.74	15.99	16.88	17.11	18.67
12H	4H	12.45	12.80	13.56	13.92	15.42	15.02	15.38	16.14	16.49	18.00
	6H	12.76	13.05	13.89	14.17	15.69	15.49	15.78	16.62	16.90	18.42
	8H	12.82	13.08	13.96	14.20	15.75	15.65	15.90	16.78	17.02	18.58