

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: P934833

Luminaire Tested: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3500K

Issue Date: 12/17/2024

**Test Information**

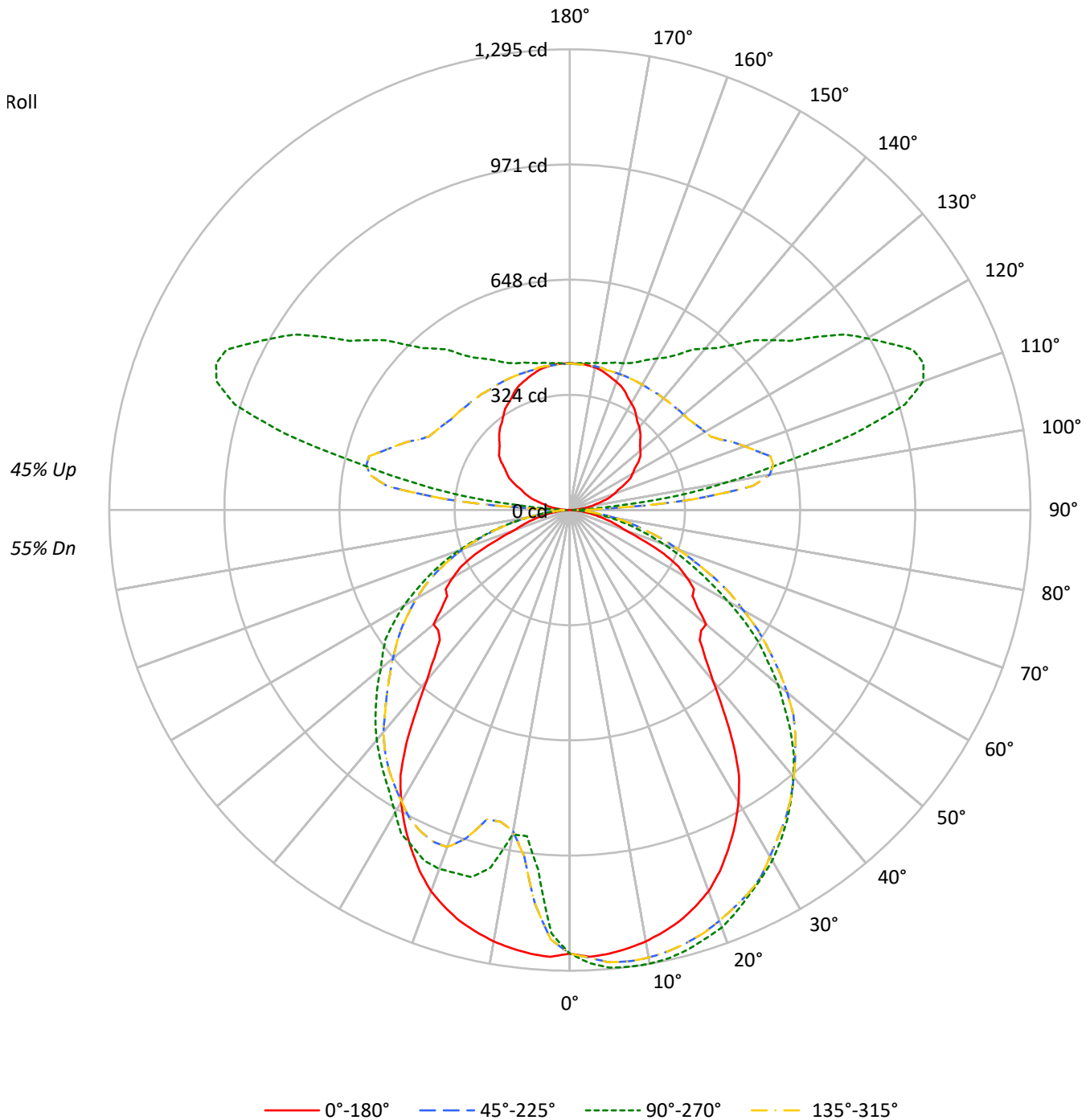
Test Method: LM-79-2019  
Report Number: P934833  
REPORT IS A COMBINATION OF REPORTS P933714 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3500K  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5906.5 lumens  
Efficiency: N/A  
Efficacy: 115.4 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 4' x H: 0.1')  
CIE Type: General Diffuse  
  
Input Watts (W): 51.2  
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-075U-100D-92765-1D-UNV-STD-W-4-3500K

### 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	0
RCR																		
0	108	108	108	108	100	100	100	100	86	86	86	73	73	73	60	60	60	55
1	99	95	91	87	92	88	85	82	76	73	71	64	62	61	54	52	51	46
2	90	83	76	71	83	77	72	67	66	62	59	56	53	51	47	45	43	39
3	82	73	65	59	76	68	61	56	58	53	49	50	46	43	42	39	37	33
4	75	64	56	50	69	60	53	47	52	46	42	44	40	37	37	34	32	28
5	69	57	49	43	64	54	46	41	46	41	36	40	35	32	34	30	28	24
6	64	51	43	37	59	48	41	35	42	36	32	36	31	28	30	27	24	21
7	59	46	38	33	54	43	36	31	38	32	28	33	28	25	28	24	21	19
8	55	42	34	29	51	39	32	27	35	29	25	30	25	22	25	22	19	17
9	51	38	31	26	47	36	29	25	32	26	22	27	23	20	24	20	17	15
10	47	35	28	23	44	33	26	22	29	24	20	25	21	18	22	18	16	14

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

	0°	90°	180°	270°
0°	11567	11567	11567	11567
5°	11641	11677	11641	9181
10°	11551	11502	11551	8223
15°	11411	11253	11411	9396
20°	11160	10958	11160	9416
25°	10659	10527	10659	9216
30°	10015	10170	10015	8778
35°	8915	9718	8915	8297
40°	7416	9185	7416	7933
45°	6614	8562	6614	7516
50°	7009	7820	7009	7095
55°	6576	7019	6576	6853
60°	6754	5961	6754	6275
65°	6095	4927	6095	5508
70°	4191	3927	4191	4617
75°	3637	2902	3637	3476
80°	2869	1918	2869	2090
85°	1557	1015	1557	864

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 10155 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	112.5	1.9
10°-20°	319.5	5.4
20°-30°	493.9	8.4
30°-40°	589.6	10.0
40°-50°	593.0	10.0
50°-60°	516.0	8.7
60°-70°	365.9	6.2
70°-80°	193.6	3.3
80°-90°	49.8	0.8
90°-100°	201.0	3.4
100°-110°	528.4	8.9
110°-120°	547.9	9.3
120°-130°	439.5	7.4
130°-140°	344.8	5.8
140°-150°	264.7	4.5
150°-160°	190.6	3.2
160°-170°	116.6	2.0
170°-180°	39.4	0.7
0°-30°	925.9	15.7
0°-40°	1515.5	25.7
0°-60°	2624.5	44.4
0°-90°	3233.8	54.7
90°-120°	1277.2	21.6
90°-150°	2326.1	39.4
90°-180°	2673.0	45.3
0°-180°	5906.5	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1246	1246	1246	1246	1246	
5°	1252	1291	1252	1015	1252	119
15°	1196	1280	1196	1068	1196	336
25°	1053	1194	1053	1045	1053	484
35°	801	1065	801	909	801	495
45°	517	877	517	770	517	414
55°	421	648	421	632	421	387
65°	292	390	292	436	292	280
75°	111	185	111	222	111	117
85°	19	47	19	40	19	25
90°	3	10	3	10	3	3
95°	27	122	27	122	27	30
105°	95	827	95	827	95	101
115°	169	1065	169	1065	169	167
125°	235	848	235	848	235	209
135°	280	658	280	658	280	217
145°	325	534	325	534	325	204
155°	368	460	368	460	368	169
165°	396	428	396	428	396	112
175°	412	415	412	415	412	39
180°	412	412	412	412	412	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1257.2	1257.2	1264.3	1266.6	1266.6	1263.1	1259.6	1263.1	1273.7	1277.2	1276.1
5°	1252.5	1261.9	1274.9	1277.2	1279.6	1278.4	1276.1	1278.4	1290.2	1292.6	1293.8
7.5°	1243.1	1260.7	1277.2	1280.8	1284.3	1280.8	1279.6	1282.0	1293.8	1296.1	1296.1
10°	1231.3	1256.0	1274.9	1277.2	1280.8	1277.2	1277.2	1282.0	1293.8	1296.1	1297.3
12.5°	1214.8	1249.0	1266.6	1269.0	1273.7	1272.5	1271.4	1276.1	1287.9	1290.2	1290.2
15°	1195.8	1236.0	1252.5	1254.8	1263.1	1260.7	1260.7	1265.5	1278.4	1282.0	1280.8
17.5°	1170.0	1219.5	1238.3	1241.9	1247.8	1246.5	1247.8	1252.5	1264.3	1266.6	1267.8
20°	1140.4	1197.1	1219.5	1223.0	1228.9	1228.9	1228.9	1234.8	1246.5	1251.3	1251.3
22.5°	1100.3	1173.4	1197.1	1199.4	1206.5	1206.5	1208.9	1217.1	1227.7	1228.9	1228.9
25°	1053.2	1147.6	1167.5	1174.7	1181.7	1185.2	1188.8	1193.5	1197.1	1195.8	1197.1
27.5°	1003.7	1114.5	1140.4	1145.1	1154.6	1158.2	1162.8	1164.1	1165.2	1168.7	1166.4
30°	948.2	1068.5	1107.4	1112.1	1127.5	1129.8	1125.1	1127.5	1133.4	1135.8	1138.1
32.5°	885.7	1000.1	1073.2	1083.8	1098.0	1090.9	1089.7	1093.3	1102.7	1102.7	1105.1
35°	800.8	947.1	1041.4	1050.8	1061.4	1053.2	1057.8	1059.1	1065.0	1068.5	1067.3
37.5°	707.6	901.0	1008.4	1015.4	1023.7	1013.0	1020.2	1023.7	1028.4	1026.1	1026.1
40°	625.1	829.1	969.5	974.1	981.3	973.0	980.0	982.4	984.7	982.4	981.3
42.5°	563.8	750.1	928.1	934.0	929.3	935.2	937.6	942.3	938.8	934.0	934.0
45°	516.6	728.8	883.3	890.4	883.3	892.8	896.3	896.3	885.7	883.3	882.2
47.5°	501.2	686.4	838.5	838.5	835.0	846.7	852.7	844.4	833.8	830.3	830.3
50°	500.0	639.2	777.2	772.5	789.0	803.2	797.3	789.0	780.8	767.7	767.7
52.5°	454.1	581.5	698.2	715.9	741.9	750.1	740.6	732.4	718.2	712.3	707.6
55°	421.0	521.3	626.3	661.6	688.7	699.4	681.7	673.4	652.1	648.7	646.3
57.5°	414.0	434.0	560.2	605.0	638.0	636.9	626.3	610.9	593.2	589.7	588.5
60°	379.7	313.7	489.4	542.5	576.7	573.2	563.8	549.6	533.1	530.8	528.3
62.5°	344.4	227.6	409.3	469.4	517.7	516.6	508.3	487.1	475.3	469.4	464.7
65°	292.5	191.0	291.3	390.3	460.0	462.3	444.6	429.3	416.3	409.3	408.0
67.5°	222.9	155.7	196.9	325.5	404.5	402.1	379.7	372.7	356.2	352.6	345.5
70°	165.1	103.8	136.8	264.2	350.3	344.4	326.7	318.4	303.1	294.8	290.1
72.5°	136.8	83.7	100.2	205.2	294.8	287.8	272.4	263.0	250.0	243.0	238.2
75°	110.9	88.5	76.7	152.1	239.4	234.7	220.6	211.1	200.5	191.0	192.3
77.5°	81.4	82.6	61.3	112.0	189.9	182.8	174.5	162.7	158.0	148.6	148.6
80°	61.3	64.9	46.0	76.7	136.8	136.8	129.7	121.5	113.2	108.5	108.5
82.5°	41.2	41.2	34.2	48.4	93.2	89.6	84.9	82.6	77.8	75.5	75.5
85°	18.8	23.6	21.2	29.5	50.7	53.1	53.1	50.7	49.5	47.1	48.4
87.5°	5.9	10.6	12.9	16.5	26.0	27.1	28.3	28.3	28.3	29.5	29.5
90°	2.8	5.0	7.2	7.8	12.2	18.1	21.1	18.7	14.0	10.5	10.5
92.5°	11.1	29.9	48.6	53.4	75.1	104.0	118.5	103.8	74.5	52.6	50.5
95°	26.6	61.1	95.5	104.1	184.8	292.3	346.2	308.8	234.3	178.4	172.1
97.5°	46.0	76.3	106.7	114.3	248.9	428.3	518.0	494.4	447.4	412.0	400.0
100°	60.9	88.4	116.0	122.8	272.2	471.3	570.8	572.5	576.0	578.6	564.2
102.5°	73.6	99.3	125.0	131.4	282.9	484.9	585.8	615.8	675.8	720.8	708.5
105°	95.2	116.9	138.7	144.2	290.8	486.4	584.1	651.4	786.0	886.8	880.2
107.5°	117.3	137.6	157.9	163.0	292.3	464.7	550.9	644.7	832.4	973.1	974.7
110°	132.3	150.6	169.0	173.5	290.1	445.5	523.3	628.1	837.9	995.3	1002.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	146.9	164.4	181.8	186.2	290.2	428.8	498.1	605.5	820.1	981.2	991.8
115°	169.1	185.1	201.3	205.3	292.9	409.5	467.9	571.4	778.2	933.3	948.0
117.5°	190.9	205.6	220.2	223.9	298.3	397.5	447.1	540.5	727.1	867.2	883.4
120°	203.7	217.4	231.2	234.7	302.7	393.5	438.8	524.1	694.7	822.6	838.4
122.5°	216.1	230.0	243.9	247.3	309.0	391.3	432.5	509.2	662.9	778.1	793.7
125°	235.2	247.9	260.6	263.7	317.7	389.6	425.6	490.9	621.4	719.2	733.6
127.5°	250.7	263.5	276.3	279.5	326.3	388.6	419.8	475.9	587.9	671.9	684.0
130°	259.0	272.8	286.5	290.0	332.5	389.2	417.6	467.5	567.2	642.0	653.1
132.5°	267.6	281.4	295.1	298.6	337.6	389.6	415.6	460.2	549.6	616.5	626.5
135°	280.3	292.8	305.4	308.5	343.1	389.3	412.3	449.7	524.5	580.6	589.2
137.5°	293.3	305.7	318.1	321.3	351.4	391.7	411.8	443.4	506.6	554.0	561.0
140°	304.1	315.5	327.0	329.8	356.5	392.0	409.8	437.1	491.7	532.6	539.2
142.5°	312.4	322.9	333.5	336.2	360.7	393.5	409.8	433.8	481.7	517.7	523.4
145°	325.1	334.4	343.6	345.9	366.2	393.5	407.0	426.7	465.9	495.3	499.6
147.5°	337.9	346.8	355.8	358.0	374.4	396.1	407.0	422.5	453.4	476.5	480.1
150°	346.2	354.3	362.4	364.5	378.6	397.6	407.0	420.1	446.1	465.7	468.5
152.5°	354.7	360.9	367.0	368.6	381.4	398.5	407.0	418.2	440.4	457.1	459.3
155°	367.5	372.0	376.5	377.7	387.5	400.5	407.0	415.9	433.5	446.8	448.3
157.5°	376.9	381.3	385.8	386.9	393.6	402.6	407.0	413.9	427.7	438.0	439.0
160°	383.2	386.7	390.1	391.0	396.3	403.5	407.0	412.9	424.8	433.6	434.2
162.5°	389.6	392.2	394.8	395.4	399.3	404.4	407.0	412.0	421.9	429.4	430.0
165°	396.5	398.8	401.1	401.8	403.6	405.9	407.0	410.6	417.7	423.1	423.7
167.5°	402.8	403.9	405.1	405.3	406.9	408.8	409.8	412.1	416.9	420.3	420.6
170°	407.0	408.1	409.3	409.5	409.6	409.7	409.8	412.1	416.9	420.3	420.3
172.5°	409.3	409.5	409.7	409.8	409.8	409.8	409.8	411.7	415.3	418.1	417.9
175°	412.3	412.3	412.3	412.3	411.5	410.3	409.8	411.0	413.3	415.1	415.1
177.5°	412.3	412.3	412.3	412.3	411.7	410.8	410.3	411.2	413.1	414.5	414.3
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1278.4	1274.9	1278.4	1276.1	1277.2	1273.7	1263.1	1259.6	1263.1	1266.6	1266.6
5°	1293.8	1291.4	1293.8	1293.8	1292.6	1290.2	1278.4	1276.1	1278.4	1279.6	1277.2
7.5°	1298.5	1294.9	1298.5	1296.1	1296.1	1293.8	1282.0	1279.6	1280.8	1284.3	1280.8
10°	1298.5	1294.9	1298.5	1297.3	1296.1	1293.8	1282.0	1277.2	1277.2	1280.8	1277.2
12.5°	1292.6	1290.2	1292.6	1290.2	1290.2	1287.9	1276.1	1271.4	1272.5	1273.7	1269.0
15°	1283.1	1279.6	1283.1	1280.8	1282.0	1278.4	1265.5	1260.7	1260.7	1263.1	1254.8
17.5°	1269.0	1264.3	1269.0	1267.8	1266.6	1264.3	1252.5	1247.8	1246.5	1247.8	1241.9
20°	1252.5	1249.0	1252.5	1251.3	1251.3	1246.5	1234.8	1228.9	1228.9	1228.9	1223.0
22.5°	1226.5	1223.0	1226.5	1228.9	1228.9	1227.7	1217.1	1208.9	1206.5	1206.5	1199.4
25°	1197.1	1193.5	1197.1	1197.1	1195.8	1197.1	1193.5	1188.8	1185.2	1181.7	1174.7
27.5°	1168.7	1166.4	1168.7	1166.4	1168.7	1165.2	1164.1	1162.8	1158.2	1154.6	1145.1
30°	1140.4	1138.1	1140.4	1138.1	1135.8	1133.4	1127.5	1125.1	1129.8	1127.5	1112.1
32.5°	1105.1	1102.7	1105.1	1105.1	1102.7	1102.7	1093.3	1089.7	1090.9	1098.0	1083.8
35°	1068.5	1065.0	1068.5	1067.3	1068.5	1065.0	1059.1	1057.8	1053.2	1061.4	1050.8
37.5°	1026.1	1022.5	1026.1	1026.1	1026.1	1028.4	1023.7	1020.2	1013.0	1023.7	1015.4
40°	982.4	977.7	982.4	981.3	982.4	984.7	982.4	980.0	973.0	981.3	974.1
42.5°	932.9	931.7	932.9	934.0	934.0	938.8	942.3	937.6	935.2	929.3	934.0
45°	879.8	877.4	879.8	882.2	883.3	885.7	896.3	896.3	892.8	883.3	890.4
47.5°	823.2	817.3	823.2	830.3	830.3	833.8	844.4	852.7	846.7	835.0	838.5
50°	763.0	764.3	763.0	767.7	767.7	780.8	789.0	797.3	803.2	789.0	772.5
52.5°	704.1	702.9	704.1	707.6	712.3	718.2	732.4	740.6	750.1	741.9	715.9
55°	645.1	647.5	645.1	646.3	648.7	652.1	673.4	681.7	699.4	688.7	661.6
57.5°	586.2	582.6	586.2	588.5	589.7	593.2	610.9	626.3	636.9	638.0	605.0
60°	517.7	513.0	517.7	528.3	530.8	533.1	549.6	563.8	573.2	576.7	542.5
62.5°	457.6	449.3	457.6	464.7	469.4	475.3	487.1	508.3	516.6	517.7	469.4
65°	393.9	390.3	393.9	408.0	409.3	416.3	429.3	444.6	462.3	460.0	390.3
67.5°	336.2	336.2	336.2	345.5	352.6	356.2	372.7	379.7	402.1	404.5	325.5
70°	283.0	281.9	283.0	290.1	294.8	303.1	318.4	326.7	344.4	350.3	264.2
72.5°	232.3	231.2	232.3	238.2	243.0	250.0	263.0	272.4	287.8	294.8	205.2
75°	187.5	185.1	187.5	192.3	191.0	200.5	211.1	220.6	234.7	239.4	152.1
77.5°	143.9	143.9	143.9	148.6	148.6	158.0	162.7	174.5	182.8	189.9	112.0
80°	107.3	106.1	107.3	108.5	108.5	113.2	121.5	129.7	136.8	136.8	76.7
82.5°	75.5	73.1	75.5	75.5	75.5	77.8	82.6	84.9	89.6	93.2	48.4
85°	47.1	47.1	47.1	48.4	47.1	49.5	50.7	53.1	53.1	50.7	29.5
87.5°	30.7	29.5	30.7	29.5	29.5	28.3	28.3	28.3	27.1	26.0	16.5
90°	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.1	18.1	12.2	7.8
92.5°	42.1	33.7	42.1	50.5	52.6	74.5	103.8	118.5	104.0	75.1	53.4
95°	146.8	121.5	146.8	172.1	178.4	234.3	308.8	346.2	292.3	184.8	104.1
97.5°	351.8	303.6	351.8	400.0	412.0	447.4	494.4	518.0	428.3	248.9	114.3
100°	506.8	449.3	506.8	564.2	578.6	576.0	572.5	570.8	471.3	272.2	122.8
102.5°	659.3	610.1	659.3	708.5	720.8	675.8	615.8	585.8	484.9	282.9	131.4
105°	853.8	827.4	853.8	880.2	886.8	786.0	651.4	584.1	486.4	290.8	144.2
107.5°	981.2	987.6	981.2	974.7	973.1	832.4	644.7	550.9	464.7	292.3	163.0
110°	1029.7	1057.3	1029.7	1002.1	995.3	837.9	628.1	523.3	445.5	290.1	173.5





TEST NUMBER: P934833

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	1034.1	1076.4	1034.1	991.8	981.2	820.1	605.5	498.1	428.8	290.2	186.2
115°	1006.7	1065.3	1006.7	948.0	933.3	778.2	571.4	467.9	409.5	292.9	205.3
117.5°	948.5	1013.6	948.5	883.4	867.2	727.1	540.5	447.1	397.5	298.3	223.9
120°	901.6	964.8	901.6	838.4	822.6	694.7	524.1	438.8	393.5	302.7	234.7
122.5°	856.0	918.4	856.0	793.7	778.1	662.9	509.2	432.5	391.3	309.0	247.3
125°	791.0	848.3	791.0	733.6	719.2	621.4	490.9	425.6	389.6	317.7	263.7
127.5°	732.4	780.9	732.4	684.0	671.9	587.9	475.9	419.8	388.6	326.3	279.5
130°	697.9	742.7	697.9	653.1	642.0	567.2	467.5	417.6	389.2	332.5	290.0
132.5°	666.6	706.7	666.6	626.5	616.5	549.6	460.2	415.6	389.6	337.6	298.6
135°	623.8	658.3	623.8	589.2	580.6	524.5	449.7	412.3	389.3	343.1	308.5
137.5°	589.3	617.6	589.3	561.0	554.0	506.6	443.4	411.8	391.7	351.4	321.3
140°	565.7	592.2	565.7	539.2	532.6	491.7	437.1	409.8	392.0	356.5	329.8
142.5°	546.1	568.9	546.1	523.4	517.7	481.7	433.8	409.8	393.5	360.7	336.2
145°	516.8	534.1	516.8	499.6	495.3	465.9	426.7	407.0	393.5	366.2	345.9
147.5°	494.3	508.6	494.3	480.1	476.5	453.4	422.5	407.0	396.1	374.4	358.0
150°	480.1	491.7	480.1	468.5	465.7	446.1	420.1	407.0	397.6	378.6	364.5
152.5°	468.0	476.7	468.0	459.3	457.1	440.4	418.2	407.0	398.5	381.4	368.6
155°	454.1	459.9	454.1	448.3	446.8	433.5	415.9	407.0	400.5	387.5	377.7
157.5°	443.1	447.1	443.1	439.0	438.0	427.7	413.9	407.0	402.6	393.6	386.9
160°	436.5	438.8	436.5	434.2	433.6	424.8	412.9	407.0	403.5	396.3	391.0
162.5°	432.2	434.4	432.2	430.0	429.4	421.9	412.0	407.0	404.4	399.3	395.4
165°	426.0	428.4	426.0	423.7	423.1	417.7	410.6	407.0	405.9	403.6	401.8
167.5°	421.6	422.6	421.6	420.6	420.3	416.9	412.1	409.8	408.8	406.9	405.3
170°	420.3	420.3	420.3	420.3	420.3	416.9	412.1	409.8	409.7	409.6	409.5
172.5°	417.0	416.1	417.0	417.9	418.1	415.3	411.7	409.8	409.8	409.8	409.8
175°	415.1	415.1	415.1	415.1	415.1	413.3	411.0	409.8	410.3	411.5	412.3
177.5°	413.3	412.3	413.3	414.3	414.5	413.1	411.2	410.3	410.8	411.7	412.3
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



TEST NUMBER: P934833

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1264.3	1257.2	1257.2	1245.4	1240.7	1237.2	1231.3	1213.6	1208.9	1204.1	1211.2
5°	1274.9	1261.9	1252.5	1231.3	1213.6	1206.5	1184.1	1141.7	1113.3	1092.1	1080.3
7.5°	1277.2	1260.7	1243.1	1210.0	1167.5	1148.7	1080.3	1002.5	981.3	962.3	950.6
10°	1274.9	1256.0	1231.3	1181.7	1081.5	1048.5	980.0	929.3	916.4	912.8	916.4
12.5°	1266.6	1249.0	1214.8	1132.2	991.9	969.5	929.3	899.9	897.5	903.4	935.2
15°	1252.5	1236.0	1195.8	1066.1	942.3	925.8	897.5	886.9	899.9	941.1	1036.7
17.5°	1238.3	1219.5	1170.0	1001.3	904.6	892.8	872.7	894.0	967.1	1022.5	1054.4
20°	1219.5	1197.1	1140.4	954.1	877.4	866.8	857.4	953.0	1008.4	1028.4	1046.1
22.5°	1197.1	1173.4	1100.3	921.1	849.1	840.8	846.7	986.0	1008.4	1022.5	1037.8
25°	1167.5	1147.6	1053.2	895.1	826.7	817.3	839.7	982.4	995.4	998.9	1029.5
27.5°	1140.4	1114.5	1003.7	871.6	799.6	796.0	845.6	967.1	976.5	980.0	1013.0
30°	1107.4	1068.5	948.2	846.7	771.3	770.2	846.7	948.2	945.8	955.3	988.3
32.5°	1073.2	1000.1	885.7	816.1	744.2	743.0	838.5	919.9	917.5	930.6	955.3
35°	1041.4	947.1	800.8	780.8	710.0	711.2	818.4	886.9	888.1	899.9	915.2
37.5°	1008.4	901.0	707.6	741.9	677.0	677.0	791.3	856.2	853.9	857.4	878.6
40°	969.5	829.1	625.1	691.1	646.3	642.8	758.4	823.2	815.0	813.8	843.3
42.5°	928.1	750.1	563.8	623.9	610.9	606.2	718.2	783.1	767.7	771.3	809.1
45°	883.3	728.8	516.6	527.2	574.3	570.8	674.6	737.1	726.5	736.0	774.9
47.5°	838.5	686.4	501.2	437.6	535.4	534.2	626.3	692.3	686.4	695.8	737.1
50°	777.2	639.2	500.0	375.1	491.8	496.5	568.4	648.7	648.7	656.9	700.5
52.5°	698.2	581.5	454.1	339.6	441.0	455.2	517.7	610.9	613.2	621.5	660.4
55°	626.3	521.3	421.0	312.5	381.0	411.6	468.2	572.0	576.7	584.9	620.4
57.5°	560.2	434.0	414.0	280.7	325.5	355.0	424.5	534.2	536.6	543.7	577.9
60°	489.4	313.7	379.7	246.5	277.2	299.6	384.5	489.4	497.7	502.4	531.9
62.5°	409.3	227.6	344.4	222.9	253.6	258.3	351.4	446.9	457.6	461.1	478.8
65°	291.3	191.0	292.5	202.9	228.8	229.9	316.1	403.4	412.7	418.6	431.7
67.5°	196.9	155.7	222.9	184.0	209.9	211.1	281.9	352.6	365.6	370.3	378.6
70°	136.8	103.8	165.1	164.0	188.7	191.0	245.3	306.6	318.4	322.0	326.7
72.5°	100.2	83.7	136.8	147.5	166.3	168.6	207.5	254.8	266.5	270.1	272.4
75°	76.7	88.5	110.9	128.5	141.5	142.7	169.9	207.5	215.8	218.2	219.3
77.5°	61.3	82.6	81.4	103.8	115.6	113.2	133.3	160.4	167.5	167.5	167.5
80°	46.0	64.9	61.3	74.3	84.9	82.6	95.5	114.4	116.8	119.1	117.9
82.5°	34.2	41.2	41.2	47.1	56.6	54.3	63.6	74.3	74.3	74.3	76.7
85°	21.2	23.6	18.8	24.7	31.9	30.7	35.3	40.1	41.2	41.2	38.9
87.5°	12.9	10.6	5.9	9.5	14.2	14.2	16.5	17.7	16.5	16.5	16.5
90°	7.2	5.0	2.8	5.0	7.2	7.8	12.2	18.1	21.1	18.7	14.0
92.5°	48.6	29.9	11.1	29.9	48.6	53.4	75.1	104.0	118.5	103.8	74.5
95°	95.5	61.1	26.6	61.1	95.5	104.1	184.8	292.3	346.2	308.8	234.3
97.5°	106.7	76.3	46.0	76.3	106.7	114.3	248.9	428.3	518.0	494.4	447.4
100°	116.0	88.4	60.9	88.4	116.0	122.8	272.2	471.3	570.8	572.5	576.0
102.5°	125.0	99.3	73.6	99.3	125.0	131.4	282.9	484.9	585.8	615.8	675.8
105°	138.7	116.9	95.2	116.9	138.7	144.2	290.8	486.4	584.1	651.4	786.0
107.5°	157.9	137.6	117.3	137.6	157.9	163.0	292.3	464.7	550.9	644.7	832.4
110°	169.0	150.6	132.3	150.6	169.0	173.5	290.1	445.5	523.3	628.1	837.9



TEST NUMBER: P934833

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	181.8	164.4	146.9	164.4	181.8	186.2	290.2	428.8	498.1	605.5	820.1
115°	201.3	185.1	169.1	185.1	201.3	205.3	292.9	409.5	467.9	571.4	778.2
117.5°	220.2	205.6	190.9	205.6	220.2	223.9	298.3	397.5	447.1	540.5	727.1
120°	231.2	217.4	203.7	217.4	231.2	234.7	302.7	393.5	438.8	524.1	694.7
122.5°	243.9	230.0	216.1	230.0	243.9	247.3	309.0	391.3	432.5	509.2	662.9
125°	260.6	247.9	235.2	247.9	260.6	263.7	317.7	389.6	425.6	490.9	621.4
127.5°	276.3	263.5	250.7	263.5	276.3	279.5	326.3	388.6	419.8	475.9	587.9
130°	286.5	272.8	259.0	272.8	286.5	290.0	332.5	389.2	417.6	467.5	567.2
132.5°	295.1	281.4	267.6	281.4	295.1	298.6	337.6	389.6	415.6	460.2	549.6
135°	305.4	292.8	280.3	292.8	305.4	308.5	343.1	389.3	412.3	449.7	524.5
137.5°	318.1	305.7	293.3	305.7	318.1	321.3	351.4	391.7	411.8	443.4	506.6
140°	327.0	315.5	304.1	315.5	327.0	329.8	356.5	392.0	409.8	437.1	491.7
142.5°	333.5	322.9	312.4	322.9	333.5	336.2	360.7	393.5	409.8	433.8	481.7
145°	343.6	334.4	325.1	334.4	343.6	345.9	366.2	393.5	407.0	426.7	465.9
147.5°	355.8	346.8	337.9	346.8	355.8	358.0	374.4	396.1	407.0	422.5	453.4
150°	362.4	354.3	346.2	354.3	362.4	364.5	378.6	397.6	407.0	420.1	446.1
152.5°	367.0	360.9	354.7	360.9	367.0	368.6	381.4	398.5	407.0	418.2	440.4
155°	376.5	372.0	367.5	372.0	376.5	377.7	387.5	400.5	407.0	415.9	433.5
157.5°	385.8	381.3	376.9	381.3	385.8	386.9	393.6	402.6	407.0	413.9	427.7
160°	390.1	386.7	383.2	386.7	390.1	391.0	396.3	403.5	407.0	412.9	424.8
162.5°	394.8	392.2	389.6	392.2	394.8	395.4	399.3	404.4	407.0	412.0	421.9
165°	401.1	398.8	396.5	398.8	401.1	401.8	403.6	405.9	407.0	410.6	417.7
167.5°	405.1	403.9	402.8	403.9	405.1	405.3	406.9	408.8	409.8	412.1	416.9
170°	409.3	408.1	407.0	408.1	409.3	409.5	409.6	409.7	409.8	412.1	416.9
172.5°	409.7	409.5	409.3	409.5	409.7	409.8	409.8	409.8	409.8	411.7	415.3
175°	412.3	412.3	412.3	412.3	412.3	412.3	411.5	410.3	409.8	411.0	413.3
177.5°	412.3	412.3	412.3	412.3	412.3	412.3	411.7	410.8	410.3	411.2	413.1
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



TEST NUMBER: P934833

CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1203.0	1199.4	1204.1	1191.1	1204.1	1199.4	1203.0	1211.2	1204.1	1208.9	1213.6
5°	1055.5	1049.6	1030.8	1015.4	1030.8	1049.6	1055.5	1080.3	1092.1	1113.3	1141.7
7.5°	943.5	938.8	934.0	924.6	934.0	938.8	943.5	950.6	962.3	981.3	1002.5
10°	918.7	919.9	927.0	925.8	927.0	919.9	918.7	916.4	912.8	916.4	929.3
12.5°	982.4	993.0	1032.0	1029.5	1032.0	993.0	982.4	935.2	903.4	897.5	899.9
15°	1055.5	1059.1	1067.3	1068.5	1067.3	1059.1	1055.5	1036.7	941.1	899.9	886.9
17.5°	1062.6	1063.8	1069.7	1069.7	1069.7	1063.8	1062.6	1054.4	1022.5	967.1	894.0
20°	1056.7	1059.1	1070.9	1073.2	1070.9	1059.1	1056.7	1046.1	1028.4	1008.4	953.0
22.5°	1054.4	1059.1	1068.5	1067.3	1068.5	1059.1	1054.4	1037.8	1022.5	1008.4	986.0
25°	1042.6	1042.6	1043.7	1044.9	1043.7	1042.6	1042.6	1029.5	998.9	995.4	982.4
27.5°	1017.8	1020.2	1027.2	1026.1	1027.2	1020.2	1017.8	1013.0	980.0	976.5	967.1
30°	995.4	993.0	987.1	982.4	987.1	993.0	995.4	988.3	955.3	945.8	948.2
32.5°	957.6	951.7	945.8	942.3	945.8	951.7	957.6	955.3	930.6	917.5	919.9
35°	912.8	914.0	912.8	909.3	912.8	914.0	912.8	915.2	899.9	888.1	886.9
37.5°	881.0	883.3	882.2	877.4	882.2	883.3	881.0	878.6	857.4	853.9	856.2
40°	848.0	849.1	848.0	844.4	848.0	849.1	848.0	843.3	813.8	815.0	823.2
42.5°	816.1	815.0	811.4	809.1	811.4	815.0	816.1	809.1	771.3	767.7	783.1
45°	779.5	780.8	773.6	770.2	773.6	780.8	779.5	774.9	736.0	726.5	737.1
47.5°	743.0	743.0	737.1	733.6	737.1	743.0	743.0	737.1	695.8	686.4	692.3
50°	704.1	702.9	694.6	693.5	694.6	702.9	704.1	700.5	656.9	648.7	648.7
52.5°	659.3	659.3	660.4	662.8	660.4	659.3	659.3	660.4	621.5	613.2	610.9
55°	620.4	621.5	629.7	632.2	629.7	621.5	620.4	620.4	584.9	576.7	572.0
57.5°	580.2	580.2	586.2	586.2	586.2	580.2	580.2	577.9	543.7	536.6	534.2
60°	534.2	536.6	541.3	540.1	541.3	536.6	534.2	531.9	502.4	497.7	489.4
62.5°	485.9	488.3	489.4	487.1	489.4	488.3	485.9	478.8	461.1	457.6	446.9
65°	435.2	437.6	438.7	436.4	438.7	437.6	435.2	431.7	418.6	412.7	403.4
67.5°	383.3	382.1	381.0	385.6	381.0	382.1	383.3	378.6	370.3	365.6	352.6
70°	330.2	330.2	329.0	331.4	329.0	330.2	330.2	326.7	322.0	318.4	306.6
72.5°	273.6	272.4	277.2	273.6	277.2	272.4	273.6	272.4	270.1	266.5	254.8
75°	218.2	220.6	218.2	221.7	218.2	220.6	218.2	219.3	218.2	215.8	207.5
77.5°	166.3	168.6	166.3	166.3	166.3	168.6	166.3	167.5	167.5	167.5	160.4
80°	117.9	116.8	116.8	115.6	116.8	116.8	117.9	117.9	119.1	116.8	114.4
82.5°	75.5	74.3	74.3	76.7	74.3	74.3	75.5	76.7	74.3	74.3	74.3
85°	41.2	42.5	40.1	40.1	40.1	42.5	41.2	38.9	41.2	41.2	40.1
87.5°	15.4	14.2	14.2	14.2	14.2	14.2	15.4	16.5	16.5	16.5	17.7
90°	10.5	10.5	10.5	10.5	10.5	10.5	10.5	14.0	18.7	21.1	18.1
92.5°	52.6	50.5	42.1	33.7	42.1	50.5	52.6	74.5	103.8	118.5	104.0
95°	178.4	172.1	146.8	121.5	146.8	172.1	178.4	234.3	308.8	346.2	292.3
97.5°	412.0	400.0	351.8	303.6	351.8	400.0	412.0	447.4	494.4	518.0	428.3
100°	578.6	564.2	506.8	449.3	506.8	564.2	578.6	576.0	572.5	570.8	471.3
102.5°	720.8	708.5	659.3	610.1	659.3	708.5	720.8	675.8	615.8	585.8	484.9
105°	886.8	880.2	853.8	827.4	853.8	880.2	886.8	786.0	651.4	584.1	486.4
107.5°	973.1	974.7	981.2	987.6	981.2	974.7	973.1	832.4	644.7	550.9	464.7
110°	995.3	1002.1	1029.7	1057.3	1029.7	1002.1	995.3	837.9	628.1	523.3	445.5



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	981.2	991.8	1034.1	1076.4	1034.1	991.8	981.2	820.1	605.5	498.1	428.8
115°	933.3	948.0	1006.7	1065.3	1006.7	948.0	933.3	778.2	571.4	467.9	409.5
117.5°	867.2	883.4	948.5	1013.6	948.5	883.4	867.2	727.1	540.5	447.1	397.5
120°	822.6	838.4	901.6	964.8	901.6	838.4	822.6	694.7	524.1	438.8	393.5
122.5°	778.1	793.7	856.0	918.4	856.0	793.7	778.1	662.9	509.2	432.5	391.3
125°	719.2	733.6	791.0	848.3	791.0	733.6	719.2	621.4	490.9	425.6	389.6
127.5°	671.9	684.0	732.4	780.9	732.4	684.0	671.9	587.9	475.9	419.8	388.6
130°	642.0	653.1	697.9	742.7	697.9	653.1	642.0	567.2	467.5	417.6	389.2
132.5°	616.5	626.5	666.6	706.7	666.6	626.5	616.5	549.6	460.2	415.6	389.6
135°	580.6	589.2	623.8	658.3	623.8	589.2	580.6	524.5	449.7	412.3	389.3
137.5°	554.0	561.0	589.3	617.6	589.3	561.0	554.0	506.6	443.4	411.8	391.7
140°	532.6	539.2	565.7	592.2	565.7	539.2	532.6	491.7	437.1	409.8	392.0
142.5°	517.7	523.4	546.1	568.9	546.1	523.4	517.7	481.7	433.8	409.8	393.5
145°	495.3	499.6	516.8	534.1	516.8	499.6	495.3	465.9	426.7	407.0	393.5
147.5°	476.5	480.1	494.3	508.6	494.3	480.1	476.5	453.4	422.5	407.0	396.1
150°	465.7	468.5	480.1	491.7	480.1	468.5	465.7	446.1	420.1	407.0	397.6
152.5°	457.1	459.3	468.0	476.7	468.0	459.3	457.1	440.4	418.2	407.0	398.5
155°	446.8	448.3	454.1	459.9	454.1	448.3	446.8	433.5	415.9	407.0	400.5
157.5°	438.0	439.0	443.1	447.1	443.1	439.0	438.0	427.7	413.9	407.0	402.6
160°	433.6	434.2	436.5	438.8	436.5	434.2	433.6	424.8	412.9	407.0	403.5
162.5°	429.4	430.0	432.2	434.4	432.2	430.0	429.4	421.9	412.0	407.0	404.4
165°	423.1	423.7	426.0	428.4	426.0	423.7	423.1	417.7	410.6	407.0	405.9
167.5°	420.3	420.6	421.6	422.6	421.6	420.6	420.3	416.9	412.1	409.8	408.8
170°	420.3	420.3	420.3	420.3	420.3	420.3	420.3	416.9	412.1	409.8	409.7
172.5°	418.1	417.9	417.0	416.1	417.0	417.9	418.1	415.3	411.7	409.8	409.8
175°	415.1	415.1	415.1	415.1	415.1	415.1	415.1	413.3	411.0	409.8	410.3
177.5°	414.5	414.3	413.3	412.3	413.3	414.3	414.5	413.1	411.2	410.3	410.8
180°	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3	412.3



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1246.5	1246.5	1246.5	1246.5	1246.5
2.5°	1231.3	1237.2	1240.7	1245.4	1257.2
5°	1184.1	1206.5	1213.6	1231.3	1252.5
7.5°	1080.3	1148.7	1167.5	1210.0	1243.1
10°	980.0	1048.5	1081.5	1181.7	1231.3
12.5°	929.3	969.5	991.9	1132.2	1214.8
15°	897.5	925.8	942.3	1066.1	1195.8
17.5°	872.7	892.8	904.6	1001.3	1170.0
20°	857.4	866.8	877.4	954.1	1140.4
22.5°	846.7	840.8	849.1	921.1	1100.3
25°	839.7	817.3	826.7	895.1	1053.2
27.5°	845.6	796.0	799.6	871.6	1003.7
30°	846.7	770.2	771.3	846.7	948.2
32.5°	838.5	743.0	744.2	816.1	885.7
35°	818.4	711.2	710.0	780.8	800.8
37.5°	791.3	677.0	677.0	741.9	707.6
40°	758.4	642.8	646.3	691.1	625.1
42.5°	718.2	606.2	610.9	623.9	563.8
45°	674.6	570.8	574.3	527.2	516.6
47.5°	626.3	534.2	535.4	437.6	501.2
50°	568.4	496.5	491.8	375.1	500.0
52.5°	517.7	455.2	441.0	339.6	454.1
55°	468.2	411.6	381.0	312.5	421.0
57.5°	424.5	355.0	325.5	280.7	414.0
60°	384.5	299.6	277.2	246.5	379.7
62.5°	351.4	258.3	253.6	222.9	344.4
65°	316.1	229.9	228.8	202.9	292.5
67.5°	281.9	211.1	209.9	184.0	222.9
70°	245.3	191.0	188.7	164.0	165.1
72.5°	207.5	168.6	166.3	147.5	136.8
75°	169.9	142.7	141.5	128.5	110.9
77.5°	133.3	113.2	115.6	103.8	81.4
80°	95.5	82.6	84.9	74.3	61.3
82.5°	63.6	54.3	56.6	47.1	41.2
85°	35.3	30.7	31.9	24.7	18.8
87.5°	16.5	14.2	14.2	9.5	5.9
90°	12.2	7.8	7.2	5.0	2.8
92.5°	75.1	53.4	48.6	29.9	11.1
95°	184.8	104.1	95.5	61.1	26.6
97.5°	248.9	114.3	106.7	76.3	46.0
100°	272.2	122.8	116.0	88.4	60.9
102.5°	282.9	131.4	125.0	99.3	73.6
105°	290.8	144.2	138.7	116.9	95.2
107.5°	292.3	163.0	157.9	137.6	117.3
110°	290.1	173.5	169.0	150.6	132.3



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CATALOG NUMBER: SQ4-FA-075U-100D-92765-1D-UNV-STD-W-4-3500K

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	290.2	186.2	181.8	164.4	146.9
115°	292.9	205.3	201.3	185.1	169.1
117.5°	298.3	223.9	220.2	205.6	190.9
120°	302.7	234.7	231.2	217.4	203.7
122.5°	309.0	247.3	243.9	230.0	216.1
125°	317.7	263.7	260.6	247.9	235.2
127.5°	326.3	279.5	276.3	263.5	250.7
130°	332.5	290.0	286.5	272.8	259.0
132.5°	337.6	298.6	295.1	281.4	267.6
135°	343.1	308.5	305.4	292.8	280.3
137.5°	351.4	321.3	318.1	305.7	293.3
140°	356.5	329.8	327.0	315.5	304.1
142.5°	360.7	336.2	333.5	322.9	312.4
145°	366.2	345.9	343.6	334.4	325.1
147.5°	374.4	358.0	355.8	346.8	337.9
150°	378.6	364.5	362.4	354.3	346.2
152.5°	381.4	368.6	367.0	360.9	354.7
155°	387.5	377.7	376.5	372.0	367.5
157.5°	393.6	386.9	385.8	381.3	376.9
160°	396.3	391.0	390.1	386.7	383.2
162.5°	399.3	395.4	394.8	392.2	389.6
165°	403.6	401.8	401.1	398.8	396.5
167.5°	406.9	405.3	405.1	403.9	402.8
170°	409.6	409.5	409.3	408.1	407.0
172.5°	409.8	409.8	409.7	409.5	409.3
175°	411.5	412.3	412.3	412.3	412.3
177.5°	411.7	412.3	412.3	412.3	412.3
180°	412.3	412.3	412.3	412.3	412.3



TEST NUMBER: P934833

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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	13.73	14.63	14.64	15.57	16.77	16.52	17.43	17.44	18.36	19.57
	3H	14.21	15.02	15.14	15.96	17.19	17.86	18.68	18.79	19.62	20.84
	4H	14.40	15.17	15.34	16.12	17.35	18.30	19.07	19.25	20.02	21.25
	6H	14.52	15.23	15.48	16.18	17.43	18.58	19.29	19.54	20.24	21.49
	8H	14.53	15.20	15.49	16.17	17.42	18.65	19.33	19.61	20.30	21.54
	12H	14.50	15.14	15.46	16.10	17.37	18.69	19.33	19.66	20.30	21.57
4H	2H	14.76	15.53	15.71	16.47	17.71	16.94	17.71	17.89	18.66	19.89
	3H	15.79	16.43	16.75	17.41	18.66	18.44	19.08	19.40	20.06	21.31
	4H	16.07	16.65	17.03	17.62	18.90	18.96	19.55	19.93	20.52	21.79
	6H	16.19	16.70	17.17	17.69	18.97	19.32	19.83	20.30	20.82	22.10
	8H	16.20	16.67	17.18	17.66	18.95	19.43	19.90	20.41	20.89	22.17
	12H	16.17	16.59	17.17	17.60	18.89	19.48	19.91	20.48	20.91	22.20
8H	4H	16.52	16.99	17.50	17.98	19.27	19.09	19.56	20.08	20.55	21.84
	6H	16.78	17.17	17.79	18.20	19.49	19.52	19.91	20.53	20.94	22.23
	8H	16.83	17.17	17.84	18.19	19.49	19.67	20.01	20.69	21.03	22.34
	12H	16.81	17.11	17.83	18.13	19.47	19.77	20.07	20.78	21.08	22.43
12H	4H	16.53	16.95	17.53	17.96	19.25	19.06	19.48	20.06	20.49	21.78
	6H	16.84	17.19	17.86	18.20	19.51	19.52	19.86	20.54	20.88	22.19
	8H	16.91	17.21	17.93	18.22	19.57	19.68	19.98	20.70	20.99	22.34