

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: P935871

Luminaire Tested: SQ4-FA-150U-050D-935-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

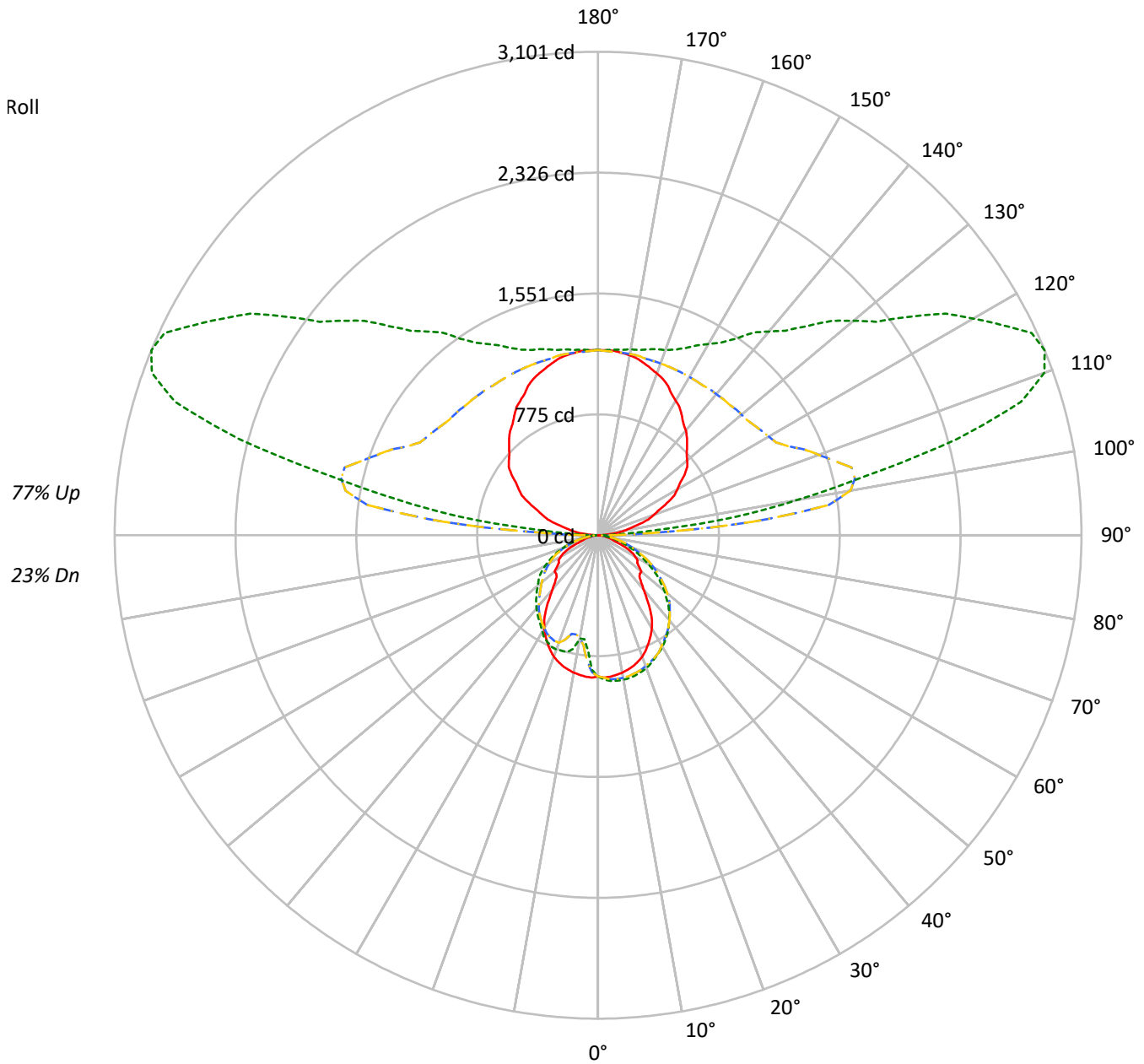
Test Method: LM-79-2019  
Report Number: P935871  
REPORT IS A COMBINATION OF REPORTS P933771 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-050D-935-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10052.7 lumens  
Efficiency: N/A  
Efficacy: 120.5 lumens/watt  
Spacing Criteria (0/90/45): 1.14 / 1.26 / 1.36  
Luminous Opening: Rectangular w/ Sides (W: 0.29' x L: 6' x H: 0.1')  
CIE Type: Semi-Indirect  
  
Input Watts (W): 83.4  
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

TEST NUMBER: P935871  
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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				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	101	101	101	101	90	90	90	90	69	69	69	49	49	49	32	32	32	32	32	32	23
1	92	88	84	81	81	78	75	72	60	58	56	43	42	41	28	27	27	27	27	27	20
2	84	77	71	66	74	68	63	59	52	49	46	38	36	34	25	24	23	23	23	23	17
3	76	67	60	55	67	60	54	49	46	42	39	34	31	29	22	20	19	19	19	19	14
4	70	59	52	46	62	53	47	42	41	37	33	30	27	25	19	18	16	16	16	16	12
5	64	53	45	39	56	47	40	36	36	32	28	27	24	21	17	16	14	14	14	14	10
6	59	47	39	34	52	42	35	31	33	28	24	24	21	18	16	14	12	12	12	12	9
7	54	42	35	29	48	38	31	27	30	25	21	22	19	16	14	12	11	11	11	11	8
8	50	38	31	26	44	34	28	23	27	22	19	20	17	14	13	11	10	10	10	10	7
9	46	35	28	23	41	31	25	21	24	20	17	18	15	13	12	10	9	9	9	9	6
10	43	32	25	20	38	28	22	18	22	18	15	17	14	11	11	9	8	8	8	8	6

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

	0°	90°	180°	270°
0°	5604	5604	5604	5604
5°	5644	5657	5644	4448
10°	5604	5573	5604	3984
15°	5541	5452	5541	4552
20°	5423	5309	5423	4562
25°	5184	5100	5184	4465
30°	4875	4927	4875	4253
35°	4345	4708	4345	4020
40°	3618	4451	3618	3844
45°	3230	4148	3230	3641
50°	3429	3788	3429	3438
55°	3224	3401	3224	3320
60°	3319	2888	3319	3040
65°	3005	2387	3005	2668
70°	2075	1902	2075	2237
75°	1814	1406	1814	1684
80°	1452	929	1452	1012
85°	817	493	817	418

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 4955 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	81.8	0.8
10°-20°	232.2	2.3
20°-30°	358.9	3.6
30°-40°	428.5	4.3
40°-50°	431.0	4.3
50°-60°	375.0	3.7
60°-70°	265.9	2.6
70°-80°	140.7	1.4
80°-90°	39.6	0.4
90°-100°	578.9	5.8
100°-110°	1522.0	15.1
110°-120°	1578.2	15.7
120°-130°	1265.9	12.6
130°-140°	993.3	9.9
140°-150°	762.4	7.6
150°-160°	549.0	5.5
160°-170°	335.9	3.3
170°-180°	113.5	1.1
0°-30°	672.9	6.7
0°-40°	1101.4	11.0
0°-60°	1907.4	19.0
0°-90°	2353.5	23.4
90°-120°	3679.2	36.6
90°-150°	6700.8	66.7
90°-180°	7699.0	76.6
0°-180°	10052.7	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	906	906	906	906	906	
5°	910	938	910	738	910	86
15°	869	930	869	776	869	245
25°	765	867	765	759	765	351
35°	582	774	582	661	582	360
45°	375	638	375	560	375	301
55°	306	471	306	459	306	281
65°	213	284	213	317	213	203
75°	81	134	81	161	81	85
85°	14	34	14	29	14	19
90°	8	30	8	30	8	7
95°	76	350	76	350	76	85
105°	274	2383	274	2383	274	291
115°	487	3069	487	3069	487	481
125°	678	2444	678	2444	678	602
135°	807	1896	807	1896	807	625
145°	937	1538	937	1538	937	587
155°	1058	1325	1058	1325	1058	486
165°	1142	1234	1142	1234	1142	322
175°	1188	1196	1188	1196	1188	113
180°	1188	1188	1188	1188	1188	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	913.7	913.7	918.8	920.5	920.5	917.9	915.4	917.9	925.7	928.3	927.4
5°	910.2	917.1	926.6	928.3	930.0	929.1	927.4	929.1	937.6	939.4	940.3
7.5°	903.4	916.2	928.3	930.8	933.4	930.8	930.0	931.7	940.3	942.0	942.0
10°	894.8	912.8	926.6	928.3	930.8	928.3	928.3	931.7	940.3	942.0	942.8
12.5°	882.8	907.6	920.5	922.2	925.7	924.8	923.9	927.4	935.9	937.6	937.6
15°	869.1	898.3	910.2	912.0	917.9	916.2	916.2	919.6	929.1	931.7	930.8
17.5°	850.2	886.3	900.0	902.5	906.8	905.9	906.8	910.2	918.8	920.5	921.4
20°	828.8	870.0	886.3	888.8	893.1	893.1	893.1	897.4	905.9	909.3	909.3
22.5°	799.7	852.8	870.0	871.7	876.8	876.8	878.5	884.5	892.2	893.1	893.1
25°	765.4	833.9	848.5	853.7	858.8	861.4	863.9	867.4	870.0	869.1	870.0
27.5°	729.4	809.9	828.8	832.2	839.1	841.7	845.1	846.0	846.8	849.4	847.7
30°	689.1	776.5	804.8	808.2	819.4	821.1	817.7	819.4	823.6	825.4	827.1
32.5°	643.7	726.8	779.9	787.7	798.0	792.8	791.9	794.5	801.4	801.4	803.1
35°	582.0	688.2	756.8	763.6	771.4	765.4	768.8	769.7	774.0	776.5	775.7
37.5°	514.3	654.8	732.8	737.9	744.0	736.2	741.4	744.0	747.4	745.7	745.7
40°	454.3	602.5	704.5	707.9	713.1	707.1	712.3	714.0	715.7	714.0	713.1
42.5°	409.7	545.1	674.5	678.8	675.4	679.6	681.4	684.8	682.3	678.8	678.8
45°	375.4	529.7	642.0	647.1	642.0	648.8	651.4	651.4	643.7	642.0	641.1
47.5°	364.2	498.8	609.4	609.4	606.8	615.4	619.7	613.7	605.9	603.4	603.4
50°	363.4	464.5	564.8	561.4	573.4	583.7	579.4	573.4	567.4	558.0	558.0
52.5°	330.0	422.5	507.4	520.2	539.1	545.1	538.3	532.2	521.9	517.7	514.3
55°	306.0	378.8	455.1	480.9	500.6	508.2	495.4	489.4	474.0	471.4	469.7
57.5°	300.8	315.4	407.1	439.7	463.7	462.8	455.1	444.0	431.1	428.6	427.7
60°	276.0	228.0	355.7	394.3	419.1	416.5	409.7	399.4	387.4	385.7	384.0
62.5°	250.2	165.5	297.4	341.1	376.2	375.4	369.4	354.0	345.4	341.1	337.7
65°	212.6	138.9	211.7	283.7	334.2	335.9	323.2	312.0	302.5	297.4	296.6
67.5°	162.0	113.1	143.1	236.6	294.0	292.2	276.0	270.9	258.8	256.3	251.2
70°	120.0	75.4	99.4	192.0	254.6	250.2	237.5	231.4	220.2	214.3	210.9
72.5°	99.4	60.8	72.8	149.1	214.3	209.2	198.0	191.1	181.7	176.5	173.1
75°	80.6	64.2	55.7	110.6	174.0	170.6	160.3	153.4	145.7	138.9	139.7
77.5°	59.1	60.0	44.6	81.5	138.0	132.8	126.9	118.3	114.8	108.0	108.0
80°	44.6	47.1	33.4	55.7	99.4	99.4	94.3	88.3	82.3	78.9	78.9
82.5°	30.0	30.0	24.9	35.1	67.7	65.2	61.7	60.0	56.6	54.9	54.9
85°	13.7	17.1	15.4	21.4	36.9	38.6	38.6	36.9	36.0	34.3	35.1
87.5°	4.3	7.8	9.5	12.0	18.8	19.7	20.5	20.5	20.5	21.4	21.4
90°	8.0	14.4	20.7	22.3	35.1	52.1	60.6	53.8	40.4	30.3	30.3
92.5°	31.9	86.1	140.3	153.9	216.3	299.6	341.1	299.0	214.7	151.5	145.4
95°	76.5	175.7	274.9	299.7	532.2	842.2	997.2	889.8	675.1	514.1	495.9
97.5°	132.3	219.8	307.3	329.2	716.9	1233.8	1492.2	1424.4	1288.6	1186.9	1152.2
100°	175.3	254.7	334.1	353.9	784.1	1357.7	1644.4	1649.4	1659.4	1666.8	1625.4
102.5°	212.1	286.1	360.1	378.6	814.9	1396.6	1687.5	1773.9	1946.7	2076.4	2041.0
105°	274.2	336.9	399.6	415.3	837.8	1401.0	1682.7	1876.4	2264.0	2554.7	2535.6
107.5°	338.0	396.4	454.9	469.5	841.9	1338.7	1587.0	1857.4	2398.0	2803.4	2808.0
110°	381.0	433.8	486.6	499.8	835.6	1283.4	1507.3	1809.5	2413.9	2867.2	2887.0



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	423.3	473.5	523.8	536.4	835.9	1235.1	1434.8	1744.0	2362.6	2826.5	2857.0
115°	487.0	533.4	579.9	591.5	843.6	1179.8	1347.9	1645.8	2241.7	2688.6	2730.8
117.5°	550.0	592.1	634.3	644.9	859.3	1145.2	1288.1	1557.0	2094.7	2498.1	2544.9
120°	586.7	626.4	666.1	676.0	872.0	1133.5	1264.2	1509.9	2001.3	2369.8	2415.2
122.5°	622.6	662.6	702.6	712.6	890.3	1127.4	1245.9	1467.1	1909.6	2241.4	2286.3
125°	677.5	714.0	750.5	759.6	915.0	1122.3	1225.9	1413.9	1789.7	2071.6	2113.0
127.5°	722.2	759.0	795.9	805.1	939.8	1119.4	1209.2	1370.5	1693.3	1935.3	1970.2
130°	746.1	785.8	825.5	835.4	957.9	1121.2	1202.9	1346.5	1633.8	1849.3	1881.5
132.5°	770.8	810.5	850.2	860.1	972.5	1122.3	1197.2	1325.8	1583.0	1775.9	1804.8
135°	807.4	843.6	879.8	888.8	988.4	1121.2	1187.7	1295.4	1510.8	1672.3	1697.2
137.5°	844.9	880.7	916.5	925.4	1012.3	1128.1	1186.1	1277.1	1459.2	1595.8	1616.2
140°	876.0	909.0	941.9	950.2	1026.9	1129.3	1180.5	1259.2	1416.4	1534.5	1553.5
142.5°	899.9	930.4	960.9	968.5	1039.2	1133.4	1180.5	1249.6	1387.7	1491.3	1507.7
145°	936.6	963.2	989.8	996.4	1055.1	1133.4	1172.5	1229.0	1342.1	1426.8	1439.2
147.5°	973.2	999.1	1025.0	1031.4	1078.5	1141.2	1172.5	1217.0	1305.9	1372.6	1382.9
150°	997.2	1020.5	1043.9	1049.7	1090.6	1145.3	1172.5	1210.1	1285.2	1341.5	1349.8
152.5°	1021.9	1039.6	1057.3	1061.8	1098.7	1147.9	1172.5	1204.6	1268.7	1316.8	1323.1
155°	1058.5	1071.6	1084.8	1088.0	1116.2	1153.8	1172.5	1198.0	1249.0	1287.3	1291.5
157.5°	1085.6	1098.4	1111.2	1114.3	1133.8	1159.6	1172.5	1192.4	1232.1	1261.8	1264.7
160°	1104.0	1113.9	1123.8	1126.3	1141.7	1162.2	1172.5	1189.6	1223.6	1249.0	1250.7
162.5°	1122.3	1129.8	1137.2	1139.0	1150.2	1165.1	1172.5	1186.8	1215.5	1237.1	1238.7
165°	1142.3	1149.0	1155.7	1157.4	1162.4	1169.1	1172.5	1182.8	1203.4	1218.8	1220.5
167.5°	1160.6	1163.7	1167.0	1167.8	1172.0	1177.7	1180.5	1187.3	1200.7	1210.8	1211.5
170°	1172.5	1175.7	1178.9	1179.7	1179.9	1180.4	1180.5	1187.3	1200.7	1210.8	1210.8
172.5°	1178.9	1179.6	1180.4	1180.5	1180.5	1180.5	1180.5	1185.8	1196.5	1204.4	1203.8
175°	1187.7	1187.7	1187.7	1187.7	1185.3	1182.1	1180.5	1183.9	1190.6	1195.6	1195.6
177.5°	1187.7	1187.7	1187.7	1187.7	1185.8	1183.3	1182.1	1184.7	1190.1	1194.1	1193.4
180°	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	929.1	926.6	929.1	927.4	928.3	925.7	917.9	915.4	917.9	920.5	920.5
5°	940.3	938.5	940.3	940.3	939.4	937.6	929.1	927.4	929.1	930.0	928.3
7.5°	943.7	941.1	943.7	942.0	942.0	940.3	931.7	930.0	930.8	933.4	930.8
10°	943.7	941.1	943.7	942.8	942.0	940.3	931.7	928.3	928.3	930.8	928.3
12.5°	939.4	937.6	939.4	937.6	937.6	935.9	927.4	923.9	924.8	925.7	922.2
15°	932.5	930.0	932.5	930.8	931.7	929.1	919.6	916.2	916.2	917.9	912.0
17.5°	922.2	918.8	922.2	921.4	920.5	918.8	910.2	906.8	905.9	906.8	902.5
20°	910.2	907.6	910.2	909.3	909.3	905.9	897.4	893.1	893.1	893.1	888.8
22.5°	891.4	888.8	891.4	893.1	893.1	892.2	884.5	878.5	876.8	876.8	871.7
25°	870.0	867.4	870.0	870.0	869.1	870.0	867.4	863.9	861.4	858.8	853.7
27.5°	849.4	847.7	849.4	847.7	849.4	846.8	846.0	845.1	841.7	839.1	832.2
30°	828.8	827.1	828.8	827.1	825.4	823.6	819.4	817.7	821.1	819.4	808.2
32.5°	803.1	801.4	803.1	803.1	801.4	801.4	794.5	791.9	792.8	798.0	787.7
35°	776.5	774.0	776.5	775.7	776.5	774.0	769.7	768.8	765.4	771.4	763.6
37.5°	745.7	743.1	745.7	745.7	745.7	747.4	744.0	741.4	736.2	744.0	737.9
40°	714.0	710.6	714.0	713.1	714.0	715.7	714.0	712.3	707.1	713.1	707.9
42.5°	677.9	677.1	677.9	678.8	678.8	682.3	684.8	681.4	679.6	675.4	678.8
45°	639.4	637.6	639.4	641.1	642.0	643.7	651.4	651.4	648.8	642.0	647.1
47.5°	598.3	593.9	598.3	603.4	603.4	605.9	613.7	619.7	615.4	606.8	609.4
50°	554.6	555.4	554.6	558.0	558.0	567.4	573.4	579.4	583.7	573.4	561.4
52.5°	511.7	510.9	511.7	514.3	517.7	521.9	532.2	538.3	545.1	539.1	520.2
55°	468.9	470.6	468.9	469.7	471.4	474.0	489.4	495.4	508.2	500.6	480.9
57.5°	426.0	423.4	426.0	427.7	428.6	431.1	444.0	455.1	462.8	463.7	439.7
60°	376.2	372.8	376.2	384.0	385.7	387.4	399.4	409.7	416.5	419.1	394.3
62.5°	332.5	326.6	332.5	337.7	341.1	345.4	354.0	369.4	375.4	376.2	341.1
65°	286.3	283.7	286.3	296.6	297.4	302.5	312.0	323.2	335.9	334.2	283.7
67.5°	244.3	244.3	244.3	251.2	256.3	258.8	270.9	276.0	292.2	294.0	236.6
70°	205.7	204.8	205.7	210.9	214.3	220.2	231.4	237.5	250.2	254.6	192.0
72.5°	168.9	168.0	168.9	173.1	176.5	181.7	191.1	198.0	209.2	214.3	149.1
75°	136.3	134.5	136.3	139.7	138.9	145.7	153.4	160.3	170.6	174.0	110.6
77.5°	104.5	104.5	104.5	108.0	108.0	114.8	118.3	126.9	132.8	138.0	81.5
80°	78.0	77.1	78.0	78.9	78.9	82.3	88.3	94.3	99.4	99.4	55.7
82.5°	54.9	53.2	54.9	54.9	54.9	56.6	60.0	61.7	65.2	67.7	35.1
85°	34.3	34.3	34.3	35.1	34.3	36.0	36.9	38.6	38.6	36.9	21.4
87.5°	22.3	21.4	22.3	21.4	21.4	20.5	20.5	20.5	19.7	18.8	12.0
90°	30.3	30.3	30.3	30.3	30.3	40.4	53.8	60.6	52.1	35.1	22.3
92.5°	121.3	97.2	121.3	145.4	151.5	214.7	299.0	341.1	299.6	216.3	153.9
95°	422.8	349.9	422.8	495.9	514.1	675.1	889.8	997.2	842.2	532.2	299.7
97.5°	1013.3	874.4	1013.3	1152.2	1186.9	1288.6	1424.4	1492.2	1233.8	716.9	329.2
100°	1460.0	1294.5	1460.0	1625.4	1666.8	1659.4	1649.4	1644.4	1357.7	784.1	353.9
102.5°	1899.3	1757.6	1899.3	2041.0	2076.4	1946.7	1773.9	1687.5	1396.6	814.9	378.6
105°	2459.5	2383.3	2459.5	2535.6	2554.7	2264.0	1876.4	1682.7	1401.0	837.8	415.3
107.5°	2826.4	2844.8	2826.4	2808.0	2803.4	2398.0	1857.4	1587.0	1338.7	841.9	469.5
110°	2966.3	3045.7	2966.3	2887.0	2867.2	2413.9	1809.5	1507.3	1283.4	835.6	499.8





TEST NUMBER: P935871

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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2978.8	3100.7	2978.8	2857.0	2826.5	2362.6	1744.0	1434.8	1235.1	835.9	536.4
115°	2899.8	3068.8	2899.8	2730.8	2688.6	2241.7	1645.8	1347.9	1179.8	843.6	591.5
117.5°	2732.4	2919.8	2732.4	2544.9	2498.1	2094.7	1557.0	1288.1	1145.2	859.3	644.9
120°	2597.4	2779.5	2597.4	2415.2	2369.8	2001.3	1509.9	1264.2	1133.5	872.0	676.0
122.5°	2465.9	2645.5	2465.9	2286.3	2241.4	1909.6	1467.1	1245.9	1127.4	890.3	712.6
125°	2278.4	2443.9	2278.4	2113.0	2071.6	1789.7	1413.9	1225.9	1122.3	915.0	759.6
127.5°	2109.8	2249.5	2109.8	1970.2	1935.3	1693.3	1370.5	1209.2	1119.4	939.8	805.1
130°	2010.5	2139.4	2010.5	1881.5	1849.3	1633.8	1346.5	1202.9	1121.2	957.9	835.4
132.5°	1920.2	2035.8	1920.2	1804.8	1775.9	1583.0	1325.8	1197.2	1122.3	972.5	860.1
135°	1796.8	1896.3	1796.8	1697.2	1672.3	1510.8	1295.4	1187.7	1121.2	988.4	888.8
137.5°	1697.7	1779.1	1697.7	1616.2	1595.8	1459.2	1277.1	1186.1	1128.1	1012.3	925.4
140°	1629.6	1705.8	1629.6	1553.5	1534.5	1416.4	1259.2	1180.5	1129.3	1026.9	950.2
142.5°	1573.3	1638.8	1573.3	1507.7	1491.3	1387.7	1249.6	1180.5	1133.4	1039.2	968.5
145°	1488.8	1538.4	1488.8	1439.2	1426.8	1342.1	1229.0	1172.5	1133.4	1055.1	996.4
147.5°	1423.9	1465.1	1423.9	1382.9	1372.6	1305.9	1217.0	1172.5	1141.2	1078.5	1031.4
150°	1383.1	1416.4	1383.1	1349.8	1341.5	1285.2	1210.1	1172.5	1145.3	1090.6	1049.7
152.5°	1348.2	1373.4	1348.2	1323.1	1316.8	1268.7	1204.6	1172.5	1147.9	1098.7	1061.8
155°	1308.1	1324.8	1308.1	1291.5	1287.3	1249.0	1198.0	1172.5	1153.8	1116.2	1088.0
157.5°	1276.5	1288.1	1276.5	1264.7	1261.8	1232.1	1192.4	1172.5	1159.6	1133.8	1114.3
160°	1257.5	1264.2	1257.5	1250.7	1249.0	1223.6	1189.6	1172.5	1162.2	1141.7	1126.3
162.5°	1245.0	1251.4	1245.0	1238.7	1237.1	1215.5	1186.8	1172.5	1165.1	1150.2	1139.0
165°	1227.1	1233.9	1227.1	1220.5	1218.8	1203.4	1182.8	1172.5	1169.1	1162.4	1157.4
167.5°	1214.4	1217.2	1214.4	1211.5	1210.8	1200.7	1187.3	1180.5	1177.7	1172.0	1167.8
170°	1210.8	1210.8	1210.8	1210.8	1210.8	1200.7	1187.3	1180.5	1180.4	1179.9	1179.7
172.5°	1201.3	1198.8	1201.3	1203.8	1204.4	1196.5	1185.8	1180.5	1180.5	1180.5	1180.5
175°	1195.6	1195.6	1195.6	1195.6	1195.6	1190.6	1183.9	1180.5	1182.1	1185.3	1187.7
177.5°	1190.5	1187.7	1190.5	1193.4	1194.1	1190.1	1184.7	1182.1	1183.3	1185.8	1187.7
180°	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7



TEST NUMBER: P935871

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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	918.8	913.7	913.7	905.1	901.7	899.1	894.8	882.0	878.5	875.1	880.2
5°	926.6	917.1	910.2	894.8	882.0	876.8	860.5	829.7	809.1	793.6	785.1
7.5°	928.3	916.2	903.4	879.3	848.5	834.8	785.1	728.5	713.1	699.4	690.8
10°	926.6	912.8	894.8	858.8	786.0	761.9	712.3	675.4	665.9	663.4	665.9
12.5°	920.5	907.6	882.8	822.8	720.8	704.5	675.4	654.0	652.2	656.6	679.6
15°	910.2	898.3	869.1	774.8	684.8	672.8	652.2	644.5	654.0	684.0	753.4
17.5°	900.0	886.3	850.2	727.7	657.4	648.8	634.2	649.6	702.8	743.1	766.2
20°	886.3	870.0	828.8	693.4	637.6	630.0	623.1	692.5	732.8	747.4	760.2
22.5°	870.0	852.8	799.7	669.4	617.1	611.1	615.4	716.5	732.8	743.1	754.3
25°	848.5	833.9	765.4	650.5	600.8	593.9	610.3	714.0	723.3	726.0	748.2
27.5°	828.8	809.9	729.4	633.4	581.1	578.5	614.5	702.8	709.7	712.3	736.2
30°	804.8	776.5	689.1	615.4	560.5	559.7	615.4	689.1	687.4	694.2	718.2
32.5°	779.9	726.8	643.7	593.1	540.8	540.0	609.4	668.6	666.9	676.2	694.2
35°	756.8	688.2	582.0	567.4	516.0	516.8	594.8	644.5	645.4	654.0	665.1
37.5°	732.8	654.8	514.3	539.1	491.9	491.9	575.1	622.2	620.5	623.1	638.6
40°	704.5	602.5	454.3	502.3	469.7	467.2	551.1	598.3	592.2	591.4	612.8
42.5°	674.5	545.1	409.7	453.4	444.0	440.6	521.9	569.1	558.0	560.5	588.0
45°	642.0	529.7	375.4	383.1	417.4	414.8	490.2	535.7	528.0	534.8	563.1
47.5°	609.4	498.8	364.2	318.0	389.1	388.3	455.1	503.1	498.8	505.7	535.7
50°	564.8	464.5	363.4	272.6	357.4	360.8	413.1	471.4	471.4	477.4	509.2
52.5°	507.4	422.5	330.0	246.8	320.5	330.8	376.2	444.0	445.7	451.7	479.9
55°	455.1	378.8	306.0	227.1	276.8	299.1	340.3	415.7	419.1	425.1	450.8
57.5°	407.1	315.4	300.8	204.0	236.6	258.0	308.6	388.3	390.0	395.2	420.0
60°	355.7	228.0	276.0	179.1	201.4	217.7	279.4	355.7	361.7	365.1	386.6
62.5°	297.4	165.5	250.2	162.0	184.3	187.7	255.4	324.9	332.5	335.1	348.0
65°	211.7	138.9	212.6	147.4	166.3	167.2	229.7	293.1	300.0	304.2	313.7
67.5°	143.1	113.1	162.0	133.7	152.6	153.4	204.8	256.3	265.7	269.1	275.1
70°	99.4	75.4	120.0	119.1	137.2	138.9	178.2	222.9	231.4	234.0	237.5
72.5°	72.8	60.8	99.4	107.1	120.8	122.6	150.9	185.1	193.7	196.3	198.0
75°	55.7	64.2	80.6	93.5	102.8	103.7	123.5	150.9	156.9	158.6	159.4
77.5°	44.6	60.0	59.1	75.4	84.0	82.3	96.9	116.6	121.7	121.7	121.7
80°	33.4	47.1	44.6	54.0	61.7	60.0	69.4	83.2	84.9	86.6	85.7
82.5°	24.9	30.0	30.0	34.3	41.2	39.4	46.3	54.0	54.0	54.0	55.7
85°	15.4	17.1	13.7	18.0	23.2	22.3	25.7	29.1	30.0	30.0	28.3
87.5°	9.5	7.8	4.3	6.8	10.3	10.3	12.0	12.9	12.0	12.0	12.0
90°	20.7	14.4	8.0	14.4	20.7	22.3	35.1	52.1	60.6	53.8	40.4
92.5°	140.3	86.1	31.9	86.1	140.3	153.9	216.3	299.6	341.1	299.0	214.7
95°	274.9	175.7	76.5	175.7	274.9	299.7	532.2	842.2	997.2	889.8	675.1
97.5°	307.3	219.8	132.3	219.8	307.3	329.2	716.9	1233.8	1492.2	1424.4	1288.6
100°	334.1	254.7	175.3	254.7	334.1	353.9	784.1	1357.7	1644.4	1649.4	1659.4
102.5°	360.1	286.1	212.1	286.1	360.1	378.6	814.9	1396.6	1687.5	1773.9	1946.7
105°	399.6	336.9	274.2	336.9	399.6	415.3	837.8	1401.0	1682.7	1876.4	2264.0
107.5°	454.9	396.4	338.0	396.4	454.9	469.5	841.9	1338.7	1587.0	1857.4	2398.0
110°	486.6	433.8	381.0	433.8	486.6	499.8	835.6	1283.4	1507.3	1809.5	2413.9



TEST NUMBER: P935871

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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	523.8	473.5	423.3	473.5	523.8	536.4	835.9	1235.1	1434.8	1744.0	2362.6
115°	579.9	533.4	487.0	533.4	579.9	591.5	843.6	1179.8	1347.9	1645.8	2241.7
117.5°	634.3	592.1	550.0	592.1	634.3	644.9	859.3	1145.2	1288.1	1557.0	2094.7
120°	666.1	626.4	586.7	626.4	666.1	676.0	872.0	1133.5	1264.2	1509.9	2001.3
122.5°	702.6	662.6	622.6	662.6	702.6	712.6	890.3	1127.4	1245.9	1467.1	1909.6
125°	750.5	714.0	677.5	714.0	750.5	759.6	915.0	1122.3	1225.9	1413.9	1789.7
127.5°	795.9	759.0	722.2	759.0	795.9	805.1	939.8	1119.4	1209.2	1370.5	1693.3
130°	825.5	785.8	746.1	785.8	825.5	835.4	957.9	1121.2	1202.9	1346.5	1633.8
132.5°	850.2	810.5	770.8	810.5	850.2	860.1	972.5	1122.3	1197.2	1325.8	1583.0
135°	879.8	843.6	807.4	843.6	879.8	888.8	988.4	1121.2	1187.7	1295.4	1510.8
137.5°	916.5	880.7	844.9	880.7	916.5	925.4	1012.3	1128.1	1186.1	1277.1	1459.2
140°	941.9	909.0	876.0	909.0	941.9	950.2	1026.9	1129.3	1180.5	1259.2	1416.4
142.5°	960.9	930.4	899.9	930.4	960.9	968.5	1039.2	1133.4	1180.5	1249.6	1387.7
145°	989.8	963.2	936.6	963.2	989.8	996.4	1055.1	1133.4	1172.5	1229.0	1342.1
147.5°	1025.0	999.1	973.2	999.1	1025.0	1031.4	1078.5	1141.2	1172.5	1217.0	1305.9
150°	1043.9	1020.5	997.2	1020.5	1043.9	1049.7	1090.6	1145.3	1172.5	1210.1	1285.2
152.5°	1057.3	1039.6	1021.9	1039.6	1057.3	1061.8	1098.7	1147.9	1172.5	1204.6	1268.7
155°	1084.8	1071.6	1058.5	1071.6	1084.8	1088.0	1116.2	1153.8	1172.5	1198.0	1249.0
157.5°	1111.2	1098.4	1085.6	1098.4	1111.2	1114.3	1133.8	1159.6	1172.5	1192.4	1232.1
160°	1123.8	1113.9	1104.0	1113.9	1123.8	1126.3	1141.7	1162.2	1172.5	1189.6	1223.6
162.5°	1137.2	1129.8	1122.3	1129.8	1137.2	1139.0	1150.2	1165.1	1172.5	1186.8	1215.5
165°	1155.7	1149.0	1142.3	1149.0	1155.7	1157.4	1162.4	1169.1	1172.5	1182.8	1203.4
167.5°	1167.0	1163.7	1160.6	1163.7	1167.0	1167.8	1172.0	1177.7	1180.5	1187.3	1200.7
170°	1178.9	1175.7	1172.5	1175.7	1178.9	1179.7	1179.9	1180.4	1180.5	1187.3	1200.7
172.5°	1180.4	1179.6	1178.9	1179.6	1180.4	1180.5	1180.5	1180.5	1180.5	1185.8	1196.5
175°	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1185.3	1182.1	1180.5	1183.9	1190.6
177.5°	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1185.8	1183.3	1182.1	1184.7	1190.1
180°	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7



TEST NUMBER: P935871  
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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9	905.9
2.5°	874.2	871.7	875.1	865.6	875.1	871.7	874.2	880.2	875.1	878.5	882.0
5°	767.1	762.8	749.1	737.9	749.1	762.8	767.1	785.1	793.6	809.1	829.7
7.5°	685.7	682.3	678.8	672.0	678.8	682.3	685.7	690.8	699.4	713.1	728.5
10°	667.7	668.6	673.7	672.8	673.7	668.6	667.7	665.9	663.4	665.9	675.4
12.5°	714.0	721.6	749.9	748.2	749.9	721.6	714.0	679.6	656.6	652.2	654.0
15°	767.1	769.7	775.7	776.5	775.7	769.7	767.1	753.4	684.0	654.0	644.5
17.5°	772.3	773.1	777.4	777.4	777.4	773.1	772.3	766.2	743.1	702.8	649.6
20°	768.0	769.7	778.2	779.9	778.2	769.7	768.0	760.2	747.4	732.8	692.5
22.5°	766.2	769.7	776.5	775.7	776.5	769.7	766.2	754.3	743.1	732.8	716.5
25°	757.7	757.7	758.5	759.4	758.5	757.7	757.7	748.2	726.0	723.3	714.0
27.5°	739.7	741.4	746.5	745.7	746.5	741.4	739.7	736.2	712.3	709.7	702.8
30°	723.3	721.6	717.4	714.0	717.4	721.6	723.3	718.2	694.2	687.4	689.1
32.5°	696.0	691.7	687.4	684.8	687.4	691.7	696.0	694.2	676.2	666.9	668.6
35°	663.4	664.2	663.4	660.8	663.4	664.2	663.4	665.1	654.0	645.4	644.5
37.5°	640.3	642.0	641.1	637.6	641.1	642.0	640.3	638.6	623.1	620.5	622.2
40°	616.3	617.1	616.3	613.7	616.3	617.1	616.3	612.8	591.4	592.2	598.3
42.5°	593.1	592.2	589.7	588.0	589.7	592.2	593.1	588.0	560.5	558.0	569.1
45°	566.6	567.4	562.2	559.7	562.2	567.4	566.6	563.1	534.8	528.0	535.7
47.5°	540.0	540.0	535.7	533.1	535.7	540.0	540.0	535.7	505.7	498.8	503.1
50°	511.7	510.9	504.8	504.0	504.8	510.9	511.7	509.2	477.4	471.4	471.4
52.5°	479.1	479.1	479.9	481.7	479.9	479.1	479.1	479.9	451.7	445.7	444.0
55°	450.8	451.7	457.7	459.4	457.7	451.7	450.8	450.8	425.1	419.1	415.7
57.5°	421.7	421.7	426.0	426.0	426.0	421.7	421.7	420.0	395.2	390.0	388.3
60°	388.3	390.0	393.4	392.5	393.4	390.0	388.3	386.6	365.1	361.7	355.7
62.5°	353.2	354.9	355.7	354.0	355.7	354.9	353.2	348.0	335.1	332.5	324.9
65°	316.3	318.0	318.8	317.1	318.8	318.0	316.3	313.7	304.2	300.0	293.1
67.5°	278.5	277.7	276.8	280.3	276.8	277.7	278.5	275.1	269.1	265.7	256.3
70°	240.0	240.0	239.2	240.9	239.2	240.0	240.0	237.5	234.0	231.4	222.9
72.5°	198.9	198.0	201.4	198.9	201.4	198.0	198.9	198.0	196.3	193.7	185.1
75°	158.6	160.3	158.6	161.1	158.6	160.3	158.6	159.4	158.6	156.9	150.9
77.5°	120.8	122.6	120.8	120.8	120.8	122.6	120.8	121.7	121.7	121.7	116.6
80°	85.7	84.9	84.9	84.0	84.9	84.9	85.7	85.7	86.6	84.9	83.2
82.5°	54.9	54.0	54.0	55.7	54.0	54.0	54.9	55.7	54.0	54.0	54.0
85°	30.0	30.8	29.1	29.1	29.1	30.8	30.0	28.3	30.0	30.0	29.1
87.5°	11.2	10.3	10.3	10.3	10.3	10.3	11.2	12.0	12.0	12.0	12.9
90°	30.3	30.3	30.3	30.3	30.3	30.3	30.3	40.4	53.8	60.6	52.1
92.5°	151.5	145.4	121.3	97.2	121.3	145.4	151.5	214.7	299.0	341.1	299.6
95°	514.1	495.9	422.8	349.9	422.8	495.9	514.1	675.1	889.8	997.2	842.2
97.5°	1186.9	1152.2	1013.3	874.4	1013.3	1152.2	1186.9	1288.6	1424.4	1492.2	1233.8
100°	1666.8	1625.4	1460.0	1294.5	1460.0	1625.4	1666.8	1659.4	1649.4	1644.4	1357.7
102.5°	2076.4	2041.0	1899.3	1757.6	1899.3	2041.0	2076.4	1946.7	1773.9	1687.5	1396.6
105°	2554.7	2535.6	2459.5	2383.3	2459.5	2535.6	2554.7	2264.0	1876.4	1682.7	1401.0
107.5°	2803.4	2808.0	2826.4	2844.8	2826.4	2808.0	2803.4	2398.0	1857.4	1587.0	1338.7
110°	2867.2	2887.0	2966.3	3045.7	2966.3	2887.0	2867.2	2413.9	1809.5	1507.3	1283.4



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2826.5	2857.0	2978.8	3100.7	2978.8	2857.0	2826.5	2362.6	1744.0	1434.8	1235.1
115°	2688.6	2730.8	2899.8	3068.8	2899.8	2730.8	2688.6	2241.7	1645.8	1347.9	1179.8
117.5°	2498.1	2544.9	2732.4	2919.8	2732.4	2544.9	2498.1	2094.7	1557.0	1288.1	1145.2
120°	2369.8	2415.2	2597.4	2779.5	2597.4	2415.2	2369.8	2001.3	1509.9	1264.2	1133.5
122.5°	2241.4	2286.3	2465.9	2645.5	2465.9	2286.3	2241.4	1909.6	1467.1	1245.9	1127.4
125°	2071.6	2113.0	2278.4	2443.9	2278.4	2113.0	2071.6	1789.7	1413.9	1225.9	1122.3
127.5°	1935.3	1970.2	2109.8	2249.5	2109.8	1970.2	1935.3	1693.3	1370.5	1209.2	1119.4
130°	1849.3	1881.5	2010.5	2139.4	2010.5	1881.5	1849.3	1633.8	1346.5	1202.9	1121.2
132.5°	1775.9	1804.8	1920.2	2035.8	1920.2	1804.8	1775.9	1583.0	1325.8	1197.2	1122.3
135°	1672.3	1697.2	1796.8	1896.3	1796.8	1697.2	1672.3	1510.8	1295.4	1187.7	1121.2
137.5°	1595.8	1616.2	1697.7	1779.1	1697.7	1616.2	1595.8	1459.2	1277.1	1186.1	1128.1
140°	1534.5	1553.5	1629.6	1705.8	1629.6	1553.5	1534.5	1416.4	1259.2	1180.5	1129.3
142.5°	1491.3	1507.7	1573.3	1638.8	1573.3	1507.7	1491.3	1387.7	1249.6	1180.5	1133.4
145°	1426.8	1439.2	1488.8	1538.4	1488.8	1439.2	1426.8	1342.1	1229.0	1172.5	1133.4
147.5°	1372.6	1382.9	1423.9	1465.1	1423.9	1382.9	1372.6	1305.9	1217.0	1172.5	1141.2
150°	1341.5	1349.8	1383.1	1416.4	1383.1	1349.8	1341.5	1285.2	1210.1	1172.5	1145.3
152.5°	1316.8	1323.1	1348.2	1373.4	1348.2	1323.1	1316.8	1268.7	1204.6	1172.5	1147.9
155°	1287.3	1291.5	1308.1	1324.8	1308.1	1291.5	1287.3	1249.0	1198.0	1172.5	1153.8
157.5°	1261.8	1264.7	1276.5	1288.1	1276.5	1264.7	1261.8	1232.1	1192.4	1172.5	1159.6
160°	1249.0	1250.7	1257.5	1264.2	1257.5	1250.7	1249.0	1223.6	1189.6	1172.5	1162.2
162.5°	1237.1	1238.7	1245.0	1251.4	1245.0	1238.7	1237.1	1215.5	1186.8	1172.5	1165.1
165°	1218.8	1220.5	1227.1	1233.9	1227.1	1220.5	1218.8	1203.4	1182.8	1172.5	1169.1
167.5°	1210.8	1211.5	1214.4	1217.2	1214.4	1211.5	1210.8	1200.7	1187.3	1180.5	1177.7
170°	1210.8	1210.8	1210.8	1210.8	1210.8	1210.8	1210.8	1200.7	1187.3	1180.5	1180.4
172.5°	1204.4	1203.8	1201.3	1198.8	1201.3	1203.8	1204.4	1196.5	1185.8	1180.5	1180.5
175°	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1195.6	1190.6	1183.9	1180.5	1182.1
177.5°	1194.1	1193.4	1190.5	1187.7	1190.5	1193.4	1194.1	1190.1	1184.7	1182.1	1183.3
180°	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7	1187.7



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	905.9	905.9	905.9	905.9	905.9
2.5°	894.8	899.1	901.7	905.1	913.7
5°	860.5	876.8	882.0	894.8	910.2
7.5°	785.1	834.8	848.5	879.3	903.4
10°	712.3	761.9	786.0	858.8	894.8
12.5°	675.4	704.5	720.8	822.8	882.8
15°	652.2	672.8	684.8	774.8	869.1
17.5°	634.2	648.8	657.4	727.7	850.2
20°	623.1	630.0	637.6	693.4	828.8
22.5°	615.4	611.1	617.1	669.4	799.7
25°	610.3	593.9	600.8	650.5	765.4
27.5°	614.5	578.5	581.1	633.4	729.4
30°	615.4	559.7	560.5	615.4	689.1
32.5°	609.4	540.0	540.8	593.1	643.7
35°	594.8	516.8	516.0	567.4	582.0
37.5°	575.1	491.9	491.9	539.1	514.3
40°	551.1	467.2	469.7	502.3	454.3
42.5°	521.9	440.6	444.0	453.4	409.7
45°	490.2	414.8	417.4	383.1	375.4
47.5°	455.1	388.3	389.1	318.0	364.2
50°	413.1	360.8	357.4	272.6	363.4
52.5°	376.2	330.8	320.5	246.8	330.0
55°	340.3	299.1	276.8	227.1	306.0
57.5°	308.6	258.0	236.6	204.0	300.8
60°	279.4	217.7	201.4	179.1	276.0
62.5°	255.4	187.7	184.3	162.0	250.2
65°	229.7	167.2	166.3	147.4	212.6
67.5°	204.8	153.4	152.6	133.7	162.0
70°	178.2	138.9	137.2	119.1	120.0
72.5°	150.9	122.6	120.8	107.1	99.4
75°	123.5	103.7	102.8	93.5	80.6
77.5°	96.9	82.3	84.0	75.4	59.1
80°	69.4	60.0	61.7	54.0	44.6
82.5°	46.3	39.4	41.2	34.3	30.0
85°	25.7	22.3	23.2	18.0	13.7
87.5°	12.0	10.3	10.3	6.8	4.3
90°	35.1	22.3	20.7	14.4	8.0
92.5°	216.3	153.9	140.3	86.1	31.9
95°	532.2	299.7	274.9	175.7	76.5
97.5°	716.9	329.2	307.3	219.8	132.3
100°	784.1	353.9	334.1	254.7	175.3
102.5°	814.9	378.6	360.1	286.1	212.1
105°	837.8	415.3	399.6	336.9	274.2
107.5°	841.9	469.5	454.9	396.4	338.0
110°	835.6	499.8	486.6	433.8	381.0



TEST NUMBER: P935871

CATALOG NUMBER: SQ4-FA-150U-050D-935-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	835.9	536.4	523.8	473.5	423.3
115°	843.6	591.5	579.9	533.4	487.0
117.5°	859.3	644.9	634.3	592.1	550.0
120°	872.0	676.0	666.1	626.4	586.7
122.5°	890.3	712.6	702.6	662.6	622.6
125°	915.0	759.6	750.5	714.0	677.5
127.5°	939.8	805.1	795.9	759.0	722.2
130°	957.9	835.4	825.5	785.8	746.1
132.5°	972.5	860.1	850.2	810.5	770.8
135°	988.4	888.8	879.8	843.6	807.4
137.5°	1012.3	925.4	916.5	880.7	844.9
140°	1026.9	950.2	941.9	909.0	876.0
142.5°	1039.2	968.5	960.9	930.4	899.9
145°	1055.1	996.4	989.8	963.2	936.6
147.5°	1078.5	1031.4	1025.0	999.1	973.2
150°	1090.6	1049.7	1043.9	1020.5	997.2
152.5°	1098.7	1061.8	1057.3	1039.6	1021.9
155°	1116.2	1088.0	1084.8	1071.6	1058.5
157.5°	1133.8	1114.3	1111.2	1098.4	1085.6
160°	1141.7	1126.3	1123.8	1113.9	1104.0
162.5°	1150.2	1139.0	1137.2	1129.8	1122.3
165°	1162.4	1157.4	1155.7	1149.0	1142.3
167.5°	1172.0	1167.8	1167.0	1163.7	1160.6
170°	1179.9	1179.7	1178.9	1175.7	1172.5
172.5°	1180.5	1180.5	1180.4	1179.6	1178.9
175°	1185.3	1187.7	1187.7	1187.7	1187.7
177.5°	1185.8	1187.7	1187.7	1187.7	1187.7
180°	1187.7	1187.7	1187.7	1187.7	1187.7



TEST NUMBER: P935871  
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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	7.58	8.25	8.74	9.39	11.00	10.41	11.07	11.56	12.21	13.82
	3H	8.04	8.64	9.21	9.79	11.41	11.73	12.33	12.90	13.48	15.10
	4H	8.22	8.79	9.40	9.94	11.57	12.17	12.73	13.34	13.88	15.51
	6H	8.33	8.85	9.51	10.01	11.64	12.44	12.96	13.62	14.11	15.75
	8H	8.33	8.82	9.51	9.99	11.62	12.51	13.00	13.69	14.17	15.80
	12H	8.29	8.76	9.48	9.92	11.57	12.54	13.01	13.73	14.17	15.82
4H	2H	8.59	9.15	9.77	10.30	11.93	10.79	11.36	11.97	12.51	14.13
	3H	9.60	10.07	10.78	11.24	12.88	12.28	12.75	13.46	13.92	15.56
	4H	9.86	10.30	11.05	11.46	13.12	12.79	13.23	13.98	14.39	16.05
	6H	9.98	10.35	11.17	11.54	13.18	13.15	13.52	14.34	14.70	16.35
	8H	9.98	10.32	11.17	11.50	13.17	13.25	13.59	14.44	14.77	16.44
	12H	9.94	10.25	11.14	11.44	13.11	13.29	13.61	14.50	14.80	16.46
8H	4H	10.30	10.65	11.49	11.83	13.49	12.90	13.25	14.09	14.43	16.09
	6H	10.55	10.84	11.76	12.06	13.72	13.33	13.61	14.54	14.84	16.49
	8H	10.59	10.84	11.81	12.04	13.72	13.48	13.73	14.69	14.92	16.60
	12H	10.57	10.79	11.79	11.98	13.69	13.57	13.79	14.78	14.98	16.69
12H	4H	10.30	10.61	11.50	11.80	13.47	12.86	13.17	14.06	14.36	16.03
	6H	10.61	10.86	11.83	12.06	13.74	13.32	13.57	14.54	14.77	16.45
	8H	10.67	10.89	11.89	12.08	13.79	13.48	13.69	14.69	14.89	16.60