

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: P936023

Luminaire Tested: SQ4-FA-150U-100D-927-1D-UNV-STD-W-6

Issue Date: 12/17/2024

**Test Information**

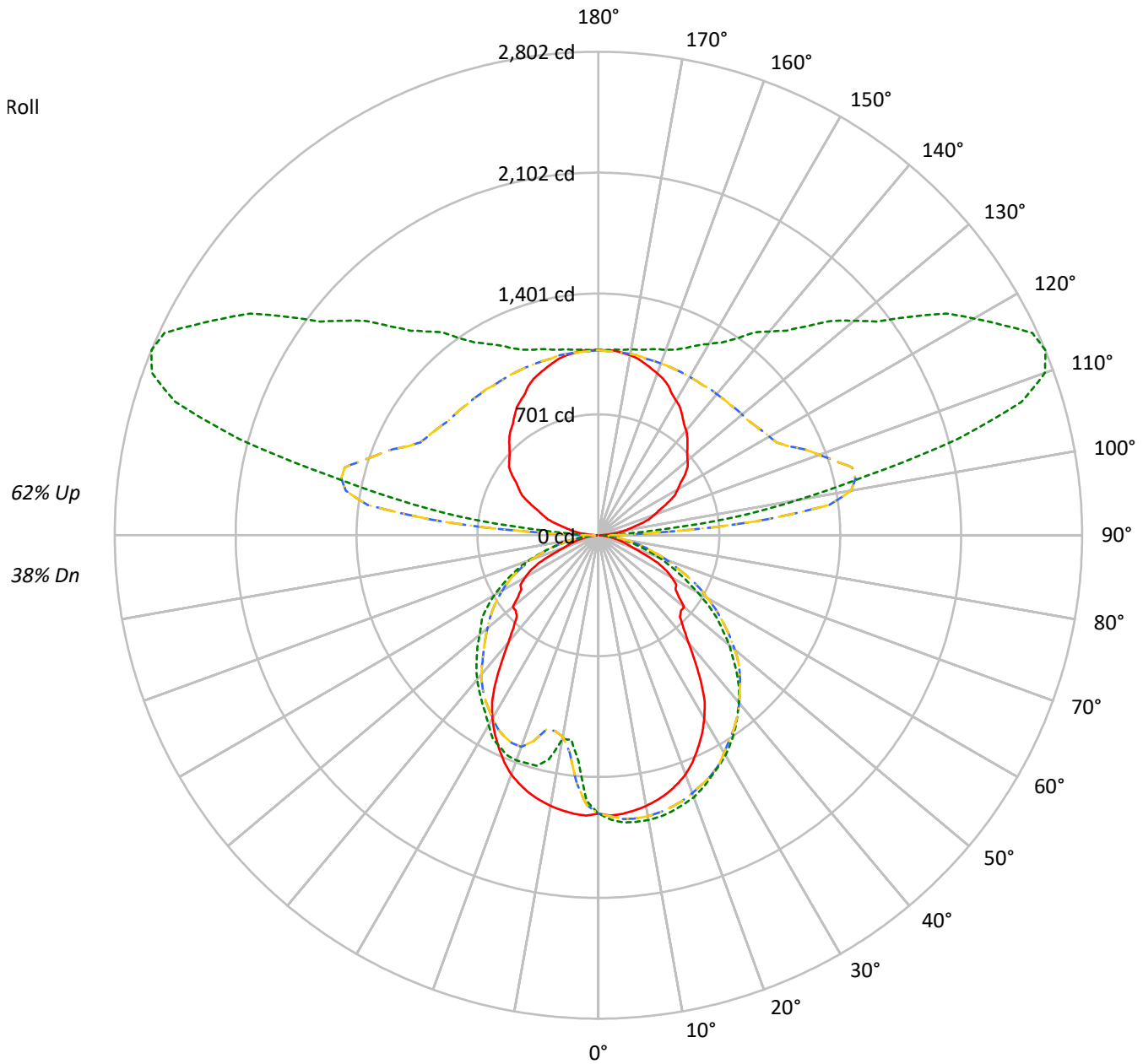
Test Method: LM-79-2019  
Report Number: P936023  
REPORT IS A COMBINATION OF REPORTS P933779 AND P933786  
Test Lab: INNOVATION CENTER  
Issue Date: 12/17/2024  
Manufacturer: COOPER LIGHTING SOLUTIONS  
Product Line: CORELITE  
Catalog Number: SQ4-FA-150U-100D-927-1D-UNV-STD-W-6  
Description: CORELITE SQ4 SUSPENDED INDIRECT LED LUMINAIRE WITH Asymmetric Frosted Continuous I  
Lens  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11144.2 lumens  
Efficiency: N/A  
Efficacy: 102.6 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): 108.6  
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				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	104	104	104	104	94	94	94	94	76	76	76	60	60	60	45	45	45	38				38
1	95	91	87	84	86	83	79	76	67	65	63	53	51	50	40	39	38	32				32
2	87	79	73	68	78	72	67	63	59	55	52	46	44	42	35	33	32	27				27
3	79	70	62	57	71	63	57	52	52	47	44	41	38	35	31	29	27	23				23
4	72	62	54	48	65	56	49	44	46	41	37	36	33	30	28	25	23	19				19
5	66	55	47	41	60	50	43	38	41	36	32	33	29	26	25	22	20	17				17
6	61	49	41	35	55	45	38	33	37	32	28	29	26	23	22	20	18	15				15
7	56	44	36	31	51	40	34	29	33	28	24	27	23	20	20	18	16	13				13
8	52	40	32	27	47	37	30	25	30	25	21	24	21	18	19	16	14	12				12
9	48	36	29	24	44	33	27	22	28	23	19	22	19	16	17	15	13	10				10
10	45	33	26	21	41	31	24	20	25	21	17	21	17	14	16	13	11	9				9

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

	0°	90°	180°	270°
0°	9977	9977	9977	9977
5°	10048	10071	10048	7920
10°	9978	9921	9978	7093
15°	9865	9706	9865	8105
20°	9656	9452	9656	8121
25°	9229	9080	9229	7950
30°	8680	8772	8680	7572
35°	7734	8381	7734	7157
40°	6441	7923	6441	6843
45°	5752	7386	5752	6482
50°	6105	6745	6105	6120
55°	5739	6054	5739	5911
60°	5908	5141	5908	5414
65°	5349	4250	5349	4751
70°	3694	3387	3694	3982
75°	3229	2503	3229	2999
80°	2581	1656	2581	1802
85°	1455	878	1455	745

**MAXIMUM LUMINANCE 45°-90°:**

Horizontal Angle: 20°  
 Vertical Angle: 45°  
 Luminance: 8820 cd/sqm



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**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	145.6	1.3
10°-20°	413.4	3.7
20°-30°	639.0	5.7
30°-40°	762.8	6.8
40°-50°	767.3	6.9
50°-60°	667.6	6.0
60°-70°	473.4	4.2
70°-80°	250.4	2.2
80°-90°	66.5	0.6
90°-100°	523.2	4.7
100°-110°	1375.6	12.3
110°-120°	1426.3	12.8
120°-130°	1144.1	10.3
130°-140°	897.7	8.1
140°-150°	689.0	6.2
150°-160°	496.2	4.5
160°-170°	303.6	2.7
170°-180°	102.6	0.9
0°-30°	1198.0	10.7
0°-40°	1960.8	17.6
0°-60°	3395.7	30.5
0°-90°	4186.0	37.6
90°-120°	3325.1	29.8
90°-150°	6055.9	54.3
90°-180°	6958.0	62.4
0°-180°	11144.2	100.0

**CANDELA DISTRIBUTION:**

	0°	90°	180°	270°	360°	Flux
0°	1613	1613	1613	1613	1613	
5°	1620	1671	1620	1314	1620	154
15°	1547	1656	1547	1382	1547	435
25°	1363	1544	1363	1352	1363	626
35°	1036	1378	1036	1176	1036	641
45°	668	1135	668	996	668	535
55°	545	838	545	818	545	501
65°	378	505	378	565	378	362
75°	144	240	144	287	144	151
85°	24	61	24	52	24	33
90°	7	27	7	27	7	7
95°	69	316	69	316	69	77
105°	248	2154	248	2154	248	263
115°	440	2774	440	2774	440	435
125°	612	2209	612	2209	612	544
135°	730	1714	730	1714	730	565
145°	846	1390	846	1390	846	530
155°	957	1197	957	1197	957	440
165°	1032	1115	1032	1115	1032	291
175°	1073	1080	1073	1080	1073	102
180°	1073	1073	1073	1073	1073	



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**CANDELA DISTRIBUTION (FULL):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1626.6	1626.6	1635.8	1638.8	1638.8	1634.2	1629.6	1634.2	1648.0	1652.6	1651.0
5°	1620.5	1632.7	1649.5	1652.6	1655.6	1654.0	1651.0	1654.0	1669.3	1672.4	1673.9
7.5°	1608.3	1631.2	1652.6	1657.1	1661.7	1657.1	1655.6	1658.7	1673.9	1677.0	1677.0
10°	1593.1	1625.1	1649.5	1652.6	1657.1	1652.6	1652.6	1658.7	1673.9	1677.0	1678.4
12.5°	1571.6	1615.9	1638.8	1641.9	1648.0	1646.4	1644.9	1651.0	1666.3	1669.3	1669.3
15°	1547.2	1599.1	1620.5	1623.5	1634.2	1631.2	1631.2	1637.3	1654.0	1658.7	1657.1
17.5°	1513.7	1577.7	1602.2	1606.8	1614.4	1612.8	1614.4	1620.5	1635.8	1638.8	1640.3
20°	1475.6	1548.8	1577.7	1582.4	1590.0	1590.0	1590.0	1597.6	1612.8	1619.0	1619.0
22.5°	1423.7	1518.3	1548.8	1551.9	1561.0	1561.0	1564.0	1574.7	1588.4	1590.0	1590.0
25°	1362.6	1484.7	1510.7	1519.7	1528.9	1533.5	1538.1	1544.2	1548.8	1547.2	1548.8
27.5°	1298.5	1442.0	1475.6	1481.6	1493.9	1498.4	1504.5	1506.0	1507.6	1512.1	1509.1
30°	1226.8	1382.5	1432.8	1438.9	1458.8	1461.8	1455.7	1458.8	1466.4	1469.5	1472.5
32.5°	1145.9	1294.0	1388.5	1402.3	1420.6	1411.4	1409.9	1414.5	1426.7	1426.7	1429.7
35°	1036.1	1225.3	1347.3	1359.6	1373.3	1362.6	1368.8	1370.2	1377.8	1382.5	1380.9
37.5°	915.5	1165.8	1304.6	1313.8	1324.5	1310.8	1319.9	1324.5	1330.6	1327.6	1327.6
40°	808.7	1072.7	1254.3	1260.4	1269.6	1258.9	1268.0	1271.0	1274.1	1271.0	1269.6
42.5°	729.3	970.4	1200.9	1208.5	1202.4	1210.1	1213.1	1219.2	1214.6	1208.5	1208.5
45°	668.4	943.0	1142.9	1152.1	1142.9	1155.1	1159.7	1159.7	1145.9	1142.9	1141.4
47.5°	648.5	888.0	1084.9	1084.9	1080.3	1095.6	1103.2	1092.6	1078.8	1074.2	1074.2
50°	647.0	827.1	1005.5	999.5	1020.8	1039.1	1031.5	1020.8	1010.2	993.4	993.4
52.5°	587.4	752.3	903.3	926.2	959.8	970.4	958.3	947.6	929.2	921.6	915.5
55°	544.8	674.4	810.3	856.0	891.1	904.8	882.0	871.3	843.8	839.2	836.2
57.5°	535.6	561.6	724.8	782.8	825.5	824.0	810.3	790.4	767.5	762.9	761.5
60°	491.3	405.9	633.2	701.9	746.1	741.6	729.3	711.1	689.7	686.7	683.6
62.5°	445.5	294.5	529.5	607.3	669.9	668.4	657.7	630.2	614.9	607.3	601.2
65°	378.5	247.2	376.9	505.0	595.1	598.1	575.3	555.4	538.6	529.5	528.0
67.5°	288.4	201.4	254.8	421.1	523.4	520.4	491.3	482.2	460.8	456.2	447.1
70°	213.6	134.3	177.0	341.8	453.2	445.5	422.7	412.0	392.2	381.5	375.4
72.5°	177.0	108.3	129.7	265.5	381.5	372.3	352.5	340.3	323.5	314.3	308.2
75°	143.5	114.4	99.2	196.8	309.8	303.7	285.4	273.1	259.4	247.2	248.7
77.5°	105.3	106.8	79.3	145.0	245.6	236.5	225.8	210.6	204.4	192.3	192.3
80°	79.3	83.9	59.5	99.2	177.0	177.0	167.9	157.2	146.5	140.4	140.4
82.5°	53.4	53.4	44.3	62.5	120.6	116.0	109.9	106.8	100.7	97.6	97.6
85°	24.4	30.5	27.5	38.1	65.6	68.7	68.7	65.6	64.1	61.1	62.5
87.5°	7.6	13.7	16.8	21.3	33.6	35.1	36.7	36.7	36.7	38.1	38.1
90°	7.2	13.0	18.7	20.2	31.7	47.0	54.7	48.7	36.5	27.4	27.4
92.5°	28.8	77.8	126.8	139.1	195.5	270.7	308.3	270.2	194.0	136.9	131.4
95°	69.1	158.8	248.5	270.9	481.0	761.1	901.2	804.2	610.1	464.6	448.1
97.5°	119.6	198.7	277.7	297.5	647.9	1115.0	1348.6	1287.3	1164.6	1072.7	1041.3
100°	158.5	230.2	301.9	319.9	708.6	1227.0	1486.2	1490.6	1499.7	1506.4	1469.0
102.5°	191.7	258.6	325.5	342.2	736.5	1262.2	1525.1	1603.1	1759.4	1876.6	1844.5
105°	247.8	304.5	361.1	375.3	757.1	1266.2	1520.8	1695.8	2046.1	2308.8	2291.6
107.5°	305.5	358.3	411.1	424.3	760.9	1209.8	1434.3	1678.6	2167.2	2533.6	2537.8
110°	344.3	392.1	439.7	451.7	755.2	1159.9	1362.2	1635.3	2181.6	2591.2	2609.1



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**CANDELA DISTRIBUTION (continued):**

	0°	10°	20°	22.5°	30°	40°	45°	50°	60°	67.5°	70°
112.5°	382.5	428.0	473.4	484.8	755.4	1116.3	1296.7	1576.2	2135.2	2554.5	2582.0
115°	440.1	482.1	524.1	534.5	762.4	1066.2	1218.1	1487.4	2025.9	2429.8	2468.0
117.5°	497.0	535.2	573.3	582.8	776.6	1035.0	1164.2	1407.2	1893.1	2257.6	2300.0
120°	530.2	566.1	602.0	610.9	788.1	1024.4	1142.5	1364.6	1808.7	2141.7	2182.8
122.5°	562.6	598.8	635.0	644.0	804.6	1018.9	1126.0	1325.9	1725.8	2025.7	2066.3
125°	612.3	645.3	678.3	686.5	827.0	1014.3	1108.0	1277.8	1617.5	1872.3	1909.6
127.5°	652.7	685.9	719.3	727.6	849.3	1011.6	1092.8	1238.6	1530.3	1749.1	1780.6
130°	674.3	710.2	746.1	755.0	865.7	1013.3	1087.1	1216.9	1476.6	1671.3	1700.4
132.5°	696.6	732.5	768.4	777.3	878.9	1014.3	1082.0	1198.2	1430.7	1605.0	1631.1
135°	729.7	762.4	795.1	803.3	893.3	1013.3	1073.4	1170.7	1365.4	1511.4	1533.8
137.5°	763.6	795.9	828.3	836.4	914.9	1019.6	1071.9	1154.2	1318.8	1442.2	1460.6
140°	791.7	821.5	851.2	858.7	928.1	1020.6	1066.9	1138.0	1280.1	1386.8	1403.9
142.5°	813.3	840.8	868.4	875.3	939.2	1024.3	1066.9	1129.4	1254.2	1347.8	1362.6
145°	846.5	870.5	894.5	900.5	953.6	1024.3	1059.7	1110.7	1212.9	1289.5	1300.7
147.5°	879.6	903.0	926.3	932.2	974.7	1031.3	1059.7	1099.9	1180.2	1240.5	1249.8
150°	901.2	922.3	943.4	948.7	985.7	1035.0	1059.7	1093.6	1161.5	1212.4	1219.9
152.5°	923.5	939.6	955.6	959.6	992.9	1037.4	1059.7	1088.6	1146.6	1190.0	1195.7
155°	956.6	968.5	980.4	983.3	1008.8	1042.7	1059.7	1082.7	1128.8	1163.4	1167.2
157.5°	981.1	992.7	1004.2	1007.1	1024.6	1048.0	1059.7	1077.6	1113.5	1140.4	1143.0
160°	997.8	1006.7	1015.6	1017.9	1031.8	1050.4	1059.7	1075.1	1105.8	1128.8	1130.4
162.5°	1014.3	1021.0	1027.7	1029.4	1039.5	1053.0	1059.7	1072.6	1098.6	1118.0	1119.5
165°	1032.3	1038.4	1044.4	1046.0	1050.5	1056.6	1059.7	1069.0	1087.5	1101.5	1103.0
167.5°	1048.9	1051.7	1054.7	1055.4	1059.2	1064.4	1066.9	1073.0	1085.2	1094.2	1094.9
170°	1059.7	1062.5	1065.4	1066.1	1066.4	1066.8	1066.9	1073.0	1085.2	1094.2	1094.2
172.5°	1065.4	1066.1	1066.8	1066.9	1066.9	1066.9	1066.9	1071.7	1081.3	1088.5	1087.9
175°	1073.4	1073.4	1073.4	1073.4	1071.2	1068.4	1066.9	1069.9	1076.0	1080.5	1080.5
177.5°	1073.4	1073.4	1073.4	1073.4	1071.7	1069.5	1068.3	1070.7	1075.5	1079.2	1078.5
180°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4



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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1654.0	1649.5	1654.0	1651.0	1652.6	1648.0	1634.2	1629.6	1634.2	1638.8	1638.8
5°	1673.9	1670.8	1673.9	1673.9	1672.4	1669.3	1654.0	1651.0	1654.0	1655.6	1652.6
7.5°	1680.0	1675.4	1680.0	1677.0	1677.0	1673.9	1658.7	1655.6	1657.1	1661.7	1657.1
10°	1680.0	1675.4	1680.0	1678.4	1677.0	1673.9	1658.7	1652.6	1652.6	1657.1	1652.6
12.5°	1672.4	1669.3	1672.4	1669.3	1669.3	1666.3	1651.0	1644.9	1646.4	1648.0	1641.9
15°	1660.2	1655.6	1660.2	1657.1	1658.7	1654.0	1637.3	1631.2	1631.2	1634.2	1623.5
17.5°	1641.9	1635.8	1641.9	1640.3	1638.8	1635.8	1620.5	1614.4	1612.8	1614.4	1606.8
20°	1620.5	1615.9	1620.5	1619.0	1619.0	1612.8	1597.6	1590.0	1590.0	1590.0	1582.4
22.5°	1586.9	1582.4	1586.9	1590.0	1590.0	1588.4	1574.7	1564.0	1561.0	1561.0	1551.9
25°	1548.8	1544.2	1548.8	1548.8	1547.2	1548.8	1544.2	1538.1	1533.5	1528.9	1519.7
27.5°	1512.1	1509.1	1512.1	1509.1	1512.1	1507.6	1506.0	1504.5	1498.4	1493.9	1481.6
30°	1475.6	1472.5	1475.6	1472.5	1469.5	1466.4	1458.8	1455.7	1461.8	1458.8	1438.9
32.5°	1429.7	1426.7	1429.7	1429.7	1426.7	1426.7	1414.5	1409.9	1411.4	1420.6	1402.3
35°	1382.5	1377.8	1382.5	1380.9	1382.5	1377.8	1370.2	1368.8	1362.6	1373.3	1359.6
37.5°	1327.6	1322.9	1327.6	1327.6	1327.6	1330.6	1324.5	1319.9	1310.8	1324.5	1313.8
40°	1271.0	1265.0	1271.0	1269.6	1271.0	1274.1	1271.0	1268.0	1258.9	1269.6	1260.4
42.5°	1207.0	1205.4	1207.0	1208.5	1208.5	1214.6	1219.2	1213.1	1210.1	1202.4	1208.5
45°	1138.3	1135.3	1138.3	1141.4	1142.9	1145.9	1159.7	1159.7	1155.1	1142.9	1152.1
47.5°	1065.1	1057.4	1065.1	1074.2	1074.2	1078.8	1092.6	1103.2	1095.6	1080.3	1084.9
50°	987.2	988.8	987.2	993.4	993.4	1010.2	1020.8	1031.5	1039.1	1020.8	999.5
52.5°	911.0	909.4	911.0	915.5	921.6	929.2	947.6	958.3	970.4	959.8	926.2
55°	834.7	837.7	834.7	836.2	839.2	843.8	871.3	882.0	904.8	891.1	856.0
57.5°	758.4	753.8	758.4	761.5	762.9	767.5	790.4	810.3	824.0	825.5	782.8
60°	669.9	663.7	669.9	683.6	686.7	689.7	711.1	729.3	741.6	746.1	701.9
62.5°	592.1	581.4	592.1	601.2	607.3	614.9	630.2	657.7	668.4	669.9	607.3
65°	509.7	505.0	509.7	528.0	529.5	538.6	555.4	575.3	598.1	595.1	505.0
67.5°	434.9	434.9	434.9	447.1	456.2	460.8	482.2	491.3	520.4	523.4	421.1
70°	366.2	364.7	366.2	375.4	381.5	392.2	412.0	422.7	445.5	453.2	341.8
72.5°	300.6	299.1	300.6	308.2	314.3	323.5	340.3	352.5	372.3	381.5	265.5
75°	242.6	239.5	242.6	248.7	247.2	259.4	273.1	285.4	303.7	309.8	196.8
77.5°	186.2	186.2	186.2	192.3	192.3	204.4	210.6	225.8	236.5	245.6	145.0
80°	138.8	137.4	138.8	140.4	140.4	146.5	157.2	167.9	177.0	177.0	99.2
82.5°	97.6	94.6	97.6	97.6	97.6	100.7	106.8	109.9	116.0	120.6	62.5
85°	61.1	61.1	61.1	62.5	61.1	64.1	65.6	68.7	68.7	65.6	38.1
87.5°	39.7	38.1	39.7	38.1	38.1	36.7	36.7	36.7	35.1	33.6	21.3
90°	27.4	27.4	27.4	27.4	27.4	36.5	48.7	54.7	47.0	31.7	20.2
92.5°	109.6	87.9	109.6	131.4	136.9	194.0	270.2	308.3	270.7	195.5	139.1
95°	382.2	316.2	382.2	448.1	464.6	610.1	804.2	901.2	761.1	481.0	270.9
97.5°	915.8	790.3	915.8	1041.3	1072.7	1164.6	1287.3	1348.6	1115.0	647.9	297.5
100°	1319.5	1169.9	1319.5	1469.0	1506.4	1499.7	1490.6	1486.2	1227.0	708.6	319.9
102.5°	1716.5	1588.4	1716.5	1844.5	1876.6	1759.4	1603.1	1525.1	1262.2	736.5	342.2
105°	2222.8	2153.9	2222.8	2291.6	2308.8	2046.1	1695.8	1520.8	1266.2	757.1	375.3
107.5°	2554.4	2571.0	2554.4	2537.8	2533.6	2167.2	1678.6	1434.3	1209.8	760.9	424.3
110°	2680.8	2752.6	2680.8	2609.1	2591.2	2181.6	1635.3	1362.2	1159.9	755.2	451.7





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**CANDELA DISTRIBUTION (continued):**

	80°	90°	100°	110°	112.5°	120°	130°	135°	140°	150°	157.5°
112.5°	2692.2	2802.3	2692.2	2582.0	2554.5	2135.2	1576.2	1296.7	1116.3	755.4	484.8
115°	2620.7	2773.5	2620.7	2468.0	2429.8	2025.9	1487.4	1218.1	1066.2	762.4	534.5
117.5°	2469.4	2638.8	2469.4	2300.0	2257.6	1893.1	1407.2	1164.2	1035.0	776.6	582.8
120°	2347.4	2512.0	2347.4	2182.8	2141.7	1808.7	1364.6	1142.5	1024.4	788.1	610.9
122.5°	2228.6	2390.9	2228.6	2066.3	2025.7	1725.8	1325.9	1126.0	1018.9	804.6	644.0
125°	2059.1	2208.7	2059.1	1909.6	1872.3	1617.5	1277.8	1108.0	1014.3	827.0	686.5
127.5°	1906.8	2033.0	1906.8	1780.6	1749.1	1530.3	1238.6	1092.8	1011.6	849.3	727.6
130°	1817.0	1933.5	1817.0	1700.4	1671.3	1476.6	1216.9	1087.1	1013.3	865.7	755.0
132.5°	1735.4	1839.8	1735.4	1631.1	1605.0	1430.7	1198.2	1082.0	1014.3	878.9	777.3
135°	1623.9	1713.8	1623.9	1533.8	1511.4	1365.4	1170.7	1073.4	1013.3	893.3	803.3
137.5°	1534.3	1607.9	1534.3	1460.6	1442.2	1318.8	1154.2	1071.9	1019.6	914.9	836.4
140°	1472.8	1541.6	1472.8	1403.9	1386.8	1280.1	1138.0	1066.9	1020.6	928.1	858.7
142.5°	1421.9	1481.1	1421.9	1362.6	1347.8	1254.2	1129.4	1066.9	1024.3	939.2	875.3
145°	1345.5	1390.3	1345.5	1300.7	1289.5	1212.9	1110.7	1059.7	1024.3	953.6	900.5
147.5°	1286.9	1324.1	1286.9	1249.8	1240.5	1180.2	1099.9	1059.7	1031.3	974.7	932.2
150°	1250.0	1280.1	1250.0	1219.9	1212.4	1161.5	1093.6	1059.7	1035.0	985.7	948.7
152.5°	1218.4	1241.2	1218.4	1195.7	1190.0	1146.6	1088.6	1059.7	1037.4	992.9	959.6
155°	1182.2	1197.3	1182.2	1167.2	1163.4	1128.8	1082.7	1059.7	1042.7	1008.8	983.3
157.5°	1153.6	1164.2	1153.6	1143.0	1140.4	1113.5	1077.6	1059.7	1048.0	1024.6	1007.1
160°	1136.4	1142.5	1136.4	1130.4	1128.8	1105.8	1075.1	1059.7	1050.4	1031.8	1017.9
162.5°	1125.2	1131.0	1125.2	1119.5	1118.0	1098.6	1072.6	1059.7	1053.0	1039.5	1029.4
165°	1109.0	1115.1	1109.0	1103.0	1101.5	1087.5	1069.0	1059.7	1056.6	1050.5	1046.0
167.5°	1097.5	1100.0	1097.5	1094.9	1094.2	1085.2	1073.0	1066.9	1064.4	1059.2	1055.4
170°	1094.2	1094.2	1094.2	1094.2	1094.2	1085.2	1073.0	1066.9	1066.8	1066.4	1066.1
172.5°	1085.7	1083.5	1085.7	1087.9	1088.5	1081.3	1071.7	1066.9	1066.9	1066.9	1066.9
175°	1080.5	1080.5	1080.5	1080.5	1080.5	1076.0	1069.9	1066.9	1068.4	1071.2	1073.4
177.5°	1075.9	1073.4	1075.9	1078.5	1079.2	1075.5	1070.7	1068.3	1069.5	1071.7	1073.4
180°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4



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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1635.8	1626.6	1626.6	1611.3	1605.2	1600.7	1593.1	1570.1	1564.0	1557.9	1567.1
5°	1649.5	1632.7	1620.5	1593.1	1570.1	1561.0	1532.0	1477.1	1440.4	1413.0	1397.7
7.5°	1652.6	1631.2	1608.3	1565.6	1510.7	1486.2	1397.7	1297.0	1269.6	1245.1	1229.8
10°	1649.5	1625.1	1593.1	1528.9	1399.2	1356.5	1268.0	1202.4	1185.6	1181.0	1185.6
12.5°	1638.8	1615.9	1571.6	1464.8	1283.3	1254.3	1202.4	1164.2	1161.2	1168.9	1210.1
15°	1620.5	1599.1	1547.2	1379.4	1219.2	1197.8	1161.2	1147.5	1164.2	1217.7	1341.3
17.5°	1602.2	1577.7	1513.7	1295.4	1170.3	1155.1	1129.1	1156.6	1251.2	1322.9	1364.1
20°	1577.7	1548.8	1475.6	1234.5	1135.3	1121.5	1109.3	1232.9	1304.6	1330.6	1353.4
22.5°	1548.8	1518.3	1423.7	1191.7	1098.6	1087.9	1095.6	1275.7	1304.6	1322.9	1342.8
25°	1510.7	1484.7	1362.6	1158.2	1069.7	1057.4	1086.5	1271.0	1287.8	1292.4	1332.1
27.5°	1475.6	1442.0	1298.5	1127.7	1034.6	1030.0	1094.1	1251.2	1263.4	1268.0	1310.8
30°	1432.8	1382.5	1226.8	1095.6	997.9	996.4	1095.6	1226.8	1223.8	1236.0	1278.7
32.5°	1388.5	1294.0	1145.9	1055.9	962.8	961.3	1084.9	1190.2	1187.1	1203.9	1236.0
35°	1347.3	1225.3	1036.1	1010.2	918.6	920.1	1059.0	1147.5	1149.0	1164.2	1184.1
37.5°	1304.6	1165.8	915.5	959.8	875.9	875.9	1023.9	1107.8	1104.7	1109.3	1136.8
40°	1254.3	1072.7	808.7	894.2	836.2	831.6	981.1	1065.1	1054.4	1052.9	1091.0
42.5°	1200.9	970.4	729.3	807.2	790.4	784.3	929.2	1013.2	993.4	997.9	1046.7
45°	1142.9	943.0	668.4	682.1	743.1	738.5	872.8	953.6	939.9	952.2	1002.5
47.5°	1084.9	888.0	648.5	566.1	692.8	691.2	810.3	895.7	888.0	900.3	953.6
50°	1005.5	827.1	647.0	485.3	636.3	642.4	735.5	839.2	839.2	849.9	906.4
52.5°	903.3	752.3	587.4	439.4	570.6	589.0	669.9	790.4	793.5	804.1	854.5
55°	810.3	674.4	544.8	404.3	492.9	532.5	605.8	740.0	746.1	756.8	802.6
57.5°	724.8	561.6	535.6	363.1	421.1	459.3	549.3	691.2	694.3	703.5	747.7
60°	633.2	405.9	491.3	318.9	358.6	387.5	497.4	633.2	644.0	650.0	688.1
62.5°	529.5	294.5	445.5	288.4	328.1	334.2	454.7	578.3	592.1	596.6	619.5
65°	376.9	247.2	378.5	262.4	296.0	297.5	408.9	521.8	534.1	541.7	558.5
67.5°	254.8	201.4	288.4	238.0	271.6	273.1	364.7	456.2	473.0	479.1	489.8
70°	177.0	134.3	213.6	212.1	244.2	247.2	317.4	396.7	412.0	416.6	422.7
72.5°	129.7	108.3	177.0	190.7	215.1	218.2	268.6	329.6	344.9	349.4	352.5
75°	99.2	114.4	143.5	166.3	183.1	184.6	219.8	268.6	279.2	282.3	283.8
77.5°	79.3	106.8	105.3	134.3	149.5	146.5	172.4	207.5	216.7	216.7	216.7
80°	59.5	83.9	79.3	96.1	109.9	106.8	123.6	148.0	151.1	154.1	152.6
82.5°	44.3	53.4	53.4	61.1	73.2	70.2	82.4	96.1	96.1	96.1	99.2
85°	27.5	30.5	24.4	32.0	41.2	39.7	45.8	51.9	53.4	53.4	50.4
87.5°	16.8	13.7	7.6	12.2	18.3	18.3	21.3	22.9	21.3	21.3	21.3
90°	18.7	13.0	7.2	13.0	18.7	20.2	31.7	47.0	54.7	48.7	36.5
92.5°	126.8	77.8	28.8	77.8	126.8	139.1	195.5	270.7	308.3	270.2	194.0
95°	248.5	158.8	69.1	158.8	248.5	270.9	481.0	761.1	901.2	804.2	610.1
97.5°	277.7	198.7	119.6	198.7	277.7	297.5	647.9	1115.0	1348.6	1287.3	1164.6
100°	301.9	230.2	158.5	230.2	301.9	319.9	708.6	1227.0	1486.2	1490.6	1499.7
102.5°	325.5	258.6	191.7	258.6	325.5	342.2	736.5	1262.2	1525.1	1603.1	1759.4
105°	361.1	304.5	247.8	304.5	361.1	375.3	757.1	1266.2	1520.8	1695.8	2046.1
107.5°	411.1	358.3	305.5	358.3	411.1	424.3	760.9	1209.8	1434.3	1678.6	2167.2
110°	439.7	392.1	344.3	392.1	439.7	451.7	755.2	1159.9	1362.2	1635.3	2181.6



TEST NUMBER: P936023

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**CANDELA DISTRIBUTION (continued):**

	160°	170°	180°	190°	200°	202.5°	210°	220°	225°	230°	240°
112.5°	473.4	428.0	382.5	428.0	473.4	484.8	755.4	1116.3	1296.7	1576.2	2135.2
115°	524.1	482.1	440.1	482.1	524.1	534.5	762.4	1066.2	1218.1	1487.4	2025.9
117.5°	573.3	535.2	497.0	535.2	573.3	582.8	776.6	1035.0	1164.2	1407.2	1893.1
120°	602.0	566.1	530.2	566.1	602.0	610.9	788.1	1024.4	1142.5	1364.6	1808.7
122.5°	635.0	598.8	562.6	598.8	635.0	644.0	804.6	1018.9	1126.0	1325.9	1725.8
125°	678.3	645.3	612.3	645.3	678.3	686.5	827.0	1014.3	1108.0	1277.8	1617.5
127.5°	719.3	685.9	652.7	685.9	719.3	727.6	849.3	1011.6	1092.8	1238.6	1530.3
130°	746.1	710.2	674.3	710.2	746.1	755.0	865.7	1013.3	1087.1	1216.9	1476.6
132.5°	768.4	732.5	696.6	732.5	768.4	777.3	878.9	1014.3	1082.0	1198.2	1430.7
135°	795.1	762.4	729.7	762.4	795.1	803.3	893.3	1013.3	1073.4	1170.7	1365.4
137.5°	828.3	795.9	763.6	795.9	828.3	836.4	914.9	1019.6	1071.9	1154.2	1318.8
140°	851.2	821.5	791.7	821.5	851.2	858.7	928.1	1020.6	1066.9	1138.0	1280.1
142.5°	868.4	840.8	813.3	840.8	868.4	875.3	939.2	1024.3	1066.9	1129.4	1254.2
145°	894.5	870.5	846.5	870.5	894.5	900.5	953.6	1024.3	1059.7	1110.7	1212.9
147.5°	926.3	903.0	879.6	903.0	926.3	932.2	974.7	1031.3	1059.7	1099.9	1180.2
150°	943.4	922.3	901.2	922.3	943.4	948.7	985.7	1035.0	1059.7	1093.6	1161.5
152.5°	955.6	939.6	923.5	939.6	955.6	959.6	992.9	1037.4	1059.7	1088.6	1146.6
155°	980.4	968.5	956.6	968.5	980.4	983.3	1008.8	1042.7	1059.7	1082.7	1128.8
157.5°	1004.2	992.7	981.1	992.7	1004.2	1007.1	1024.6	1048.0	1059.7	1077.6	1113.5
160°	1015.6	1006.7	997.8	1006.7	1015.6	1017.9	1031.8	1050.4	1059.7	1075.1	1105.8
162.5°	1027.7	1021.0	1014.3	1021.0	1027.7	1029.4	1039.5	1053.0	1059.7	1072.6	1098.6
165°	1044.4	1038.4	1032.3	1038.4	1044.4	1046.0	1050.5	1056.6	1059.7	1069.0	1087.5
167.5°	1054.7	1051.7	1048.9	1051.7	1054.7	1055.4	1059.2	1064.4	1066.9	1073.0	1085.2
170°	1065.4	1062.5	1059.7	1062.5	1065.4	1066.1	1066.4	1066.8	1066.9	1073.0	1085.2
172.5°	1066.8	1066.1	1065.4	1066.1	1066.8	1066.9	1066.9	1066.9	1066.9	1071.7	1081.3
175°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1071.2	1068.4	1066.9	1069.9	1076.0
177.5°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1071.7	1069.5	1068.3	1070.7	1075.5
180°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4



TEST NUMBER: P936023

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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
0°	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1556.4	1551.9	1557.9	1541.2	1557.9	1551.9	1556.4	1567.1	1557.9	1564.0	1570.1
5°	1365.7	1358.0	1333.6	1313.8	1333.6	1358.0	1365.7	1397.7	1413.0	1440.4	1477.1
7.5°	1220.7	1214.6	1208.5	1196.3	1208.5	1214.6	1220.7	1229.8	1245.1	1269.6	1297.0
10°	1188.6	1190.2	1199.4	1197.8	1199.4	1190.2	1188.6	1185.6	1181.0	1185.6	1202.4
12.5°	1271.0	1284.8	1335.2	1332.1	1335.2	1284.8	1271.0	1210.1	1168.9	1161.2	1164.2
15°	1365.7	1370.2	1380.9	1382.5	1380.9	1370.2	1365.7	1341.3	1217.7	1164.2	1147.5
17.5°	1374.8	1376.4	1384.0	1384.0	1384.0	1376.4	1374.8	1364.1	1322.9	1251.2	1156.6
20°	1367.2	1370.2	1385.5	1388.5	1385.5	1370.2	1367.2	1353.4	1330.6	1304.6	1232.9
22.5°	1364.1	1370.2	1382.5	1380.9	1382.5	1370.2	1364.1	1342.8	1322.9	1304.6	1275.7
25°	1348.9	1348.9	1350.4	1352.0	1350.4	1348.9	1348.9	1332.1	1292.4	1287.8	1271.0
27.5°	1316.9	1319.9	1329.0	1327.6	1329.0	1319.9	1316.9	1310.8	1268.0	1263.4	1251.2
30°	1287.8	1284.8	1277.2	1271.0	1277.2	1284.8	1287.8	1278.7	1236.0	1223.8	1226.8
32.5°	1239.0	1231.4	1223.8	1219.2	1223.8	1231.4	1239.0	1236.0	1203.9	1187.1	1190.2
35°	1181.0	1182.6	1181.0	1176.5	1181.0	1182.6	1181.0	1184.1	1164.2	1149.0	1147.5
37.5°	1139.8	1142.9	1141.4	1135.3	1141.4	1142.9	1139.8	1136.8	1109.3	1104.7	1107.8
40°	1097.1	1098.6	1097.1	1092.6	1097.1	1098.6	1097.1	1091.0	1052.9	1054.4	1065.1
42.5°	1055.9	1054.4	1049.8	1046.7	1049.8	1054.4	1055.9	1046.7	997.9	993.4	1013.2
45°	1008.6	1010.2	1001.0	996.4	1001.0	1010.2	1008.6	1002.5	952.2	939.9	953.6
47.5°	961.3	961.3	953.6	949.1	953.6	961.3	961.3	953.6	900.3	888.0	895.7
50°	911.0	909.4	898.7	897.2	898.7	909.4	911.0	906.4	849.9	839.2	839.2
52.5°	853.0	853.0	854.5	857.5	854.5	853.0	853.0	854.5	804.1	793.5	790.4
55°	802.6	804.1	814.8	817.9	814.8	804.1	802.6	802.6	756.8	746.1	740.0
57.5°	750.8	750.8	758.4	758.4	758.4	750.8	750.8	747.7	703.5	694.3	691.2
60°	691.2	694.3	700.4	698.9	700.4	694.3	691.2	688.1	650.0	644.0	633.2
62.5°	628.6	631.7	633.2	630.2	633.2	631.7	628.6	619.5	596.6	592.1	578.3
65°	563.0	566.1	567.6	564.6	567.6	566.1	563.0	558.5	541.7	534.1	521.8
67.5°	495.9	494.4	492.9	499.0	492.9	494.4	495.9	489.8	479.1	473.0	456.2
70°	427.3	427.3	425.7	428.7	425.7	427.3	427.3	422.7	416.6	412.0	396.7
72.5°	354.0	352.5	358.6	354.0	358.6	352.5	354.0	352.5	349.4	344.9	329.6
75°	282.3	285.4	282.3	286.9	282.3	285.4	282.3	283.8	282.3	279.2	268.6
77.5°	215.1	218.2	215.1	215.1	215.1	218.2	215.1	216.7	216.7	216.7	207.5
80°	152.6	151.1	151.1	149.5	151.1	151.1	152.6	152.6	154.1	151.1	148.0
82.5°	97.6	96.1	96.1	99.2	96.1	96.1	97.6	99.2	96.1	96.1	96.1
85°	53.4	54.9	51.9	51.9	51.9	54.9	53.4	50.4	53.4	53.4	51.9
87.5°	19.9	18.3	18.3	18.3	18.3	18.3	19.9	21.3	21.3	21.3	22.9
90°	27.4	27.4	27.4	27.4	27.4	27.4	27.4	36.5	48.7	54.7	47.0
92.5°	136.9	131.4	109.6	87.9	109.6	131.4	136.9	194.0	270.2	308.3	270.7
95°	464.6	448.1	382.2	316.2	382.2	448.1	464.6	610.1	804.2	901.2	761.1
97.5°	1072.7	1041.3	915.8	790.3	915.8	1041.3	1072.7	1164.6	1287.3	1348.6	1115.0
100°	1506.4	1469.0	1319.5	1169.9	1319.5	1469.0	1506.4	1499.7	1490.6	1486.2	1227.0
102.5°	1876.6	1844.5	1716.5	1588.4	1716.5	1844.5	1876.6	1759.4	1603.1	1525.1	1262.2
105°	2308.8	2291.6	2222.8	2153.9	2222.8	2291.6	2308.8	2046.1	1695.8	1520.8	1266.2
107.5°	2533.6	2537.8	2554.4	2571.0	2554.4	2537.8	2533.6	2167.2	1678.6	1434.3	1209.8
110°	2591.2	2609.1	2680.8	2752.6	2680.8	2609.1	2591.2	2181.6	1635.3	1362.2	1159.9



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**CANDELA DISTRIBUTION (continued):**

	247.5°	250°	260°	270°	280°	290°	292.5°	300°	310°	315°	320°
112.5°	2554.5	2582.0	2692.2	2802.3	2692.2	2582.0	2554.5	2135.2	1576.2	1296.7	1116.3
115°	2429.8	2468.0	2620.7	2773.5	2620.7	2468.0	2429.8	2025.9	1487.4	1218.1	1066.2
117.5°	2257.6	2300.0	2469.4	2638.8	2469.4	2300.0	2257.6	1893.1	1407.2	1164.2	1035.0
120°	2141.7	2182.8	2347.4	2512.0	2347.4	2182.8	2141.7	1808.7	1364.6	1142.5	1024.4
122.5°	2025.7	2066.3	2228.6	2390.9	2228.6	2066.3	2025.7	1725.8	1325.9	1126.0	1018.9
125°	1872.3	1909.6	2059.1	2208.7	2059.1	1909.6	1872.3	1617.5	1277.8	1108.0	1014.3
127.5°	1749.1	1780.6	1906.8	2033.0	1906.8	1780.6	1749.1	1530.3	1238.6	1092.8	1011.6
130°	1671.3	1700.4	1817.0	1933.5	1817.0	1700.4	1671.3	1476.6	1216.9	1087.1	1013.3
132.5°	1605.0	1631.1	1735.4	1839.8	1735.4	1631.1	1605.0	1430.7	1198.2	1082.0	1014.3
135°	1511.4	1533.8	1623.9	1713.8	1623.9	1533.8	1511.4	1365.4	1170.7	1073.4	1013.3
137.5°	1442.2	1460.6	1534.3	1607.9	1534.3	1460.6	1442.2	1318.8	1154.2	1071.9	1019.6
140°	1386.8	1403.9	1472.8	1541.6	1472.8	1403.9	1386.8	1280.1	1138.0	1066.9	1020.6
142.5°	1347.8	1362.6	1421.9	1481.1	1421.9	1362.6	1347.8	1254.2	1129.4	1066.9	1024.3
145°	1289.5	1300.7	1345.5	1390.3	1345.5	1300.7	1289.5	1212.9	1110.7	1059.7	1024.3
147.5°	1240.5	1249.8	1286.9	1324.1	1286.9	1249.8	1240.5	1180.2	1099.9	1059.7	1031.3
150°	1212.4	1219.9	1250.0	1280.1	1250.0	1219.9	1212.4	1161.5	1093.6	1059.7	1035.0
152.5°	1190.0	1195.7	1218.4	1241.2	1218.4	1195.7	1190.0	1146.6	1088.6	1059.7	1037.4
155°	1163.4	1167.2	1182.2	1197.3	1182.2	1167.2	1163.4	1128.8	1082.7	1059.7	1042.7
157.5°	1140.4	1143.0	1153.6	1164.2	1153.6	1143.0	1140.4	1113.5	1077.6	1059.7	1048.0
160°	1128.8	1130.4	1136.4	1142.5	1136.4	1130.4	1128.8	1105.8	1075.1	1059.7	1050.4
162.5°	1118.0	1119.5	1125.2	1131.0	1125.2	1119.5	1118.0	1098.6	1072.6	1059.7	1053.0
165°	1101.5	1103.0	1109.0	1115.1	1109.0	1103.0	1101.5	1087.5	1069.0	1059.7	1056.6
167.5°	1094.2	1094.9	1097.5	1100.0	1097.5	1094.9	1094.2	1085.2	1073.0	1066.9	1064.4
170°	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1094.2	1085.2	1073.0	1066.9	1066.8
172.5°	1088.5	1087.9	1085.7	1083.5	1085.7	1087.9	1088.5	1081.3	1071.7	1066.9	1066.9
175°	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1080.5	1076.0	1069.9	1066.9	1068.4
177.5°	1079.2	1078.5	1075.9	1073.4	1075.9	1078.5	1079.2	1075.5	1070.7	1068.3	1069.5
180°	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4	1073.4



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**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
0°	1612.8	1612.8	1612.8	1612.8	1612.8
2.5°	1593.1	1600.7	1605.2	1611.3	1626.6
5°	1532.0	1561.0	1570.1	1593.1	1620.5
7.5°	1397.7	1486.2	1510.7	1565.6	1608.3
10°	1268.0	1356.5	1399.2	1528.9	1593.1
12.5°	1202.4	1254.3	1283.3	1464.8	1571.6
15°	1161.2	1197.8	1219.2	1379.4	1547.2
17.5°	1129.1	1155.1	1170.3	1295.4	1513.7
20°	1109.3	1121.5	1135.3	1234.5	1475.6
22.5°	1095.6	1087.9	1098.6	1191.7	1423.7
25°	1086.5	1057.4	1069.7	1158.2	1362.6
27.5°	1094.1	1030.0	1034.6	1127.7	1298.5
30°	1095.6	996.4	997.9	1095.6	1226.8
32.5°	1084.9	961.3	962.8	1055.9	1145.9
35°	1059.0	920.1	918.6	1010.2	1036.1
37.5°	1023.9	875.9	875.9	959.8	915.5
40°	981.1	831.6	836.2	894.2	808.7
42.5°	929.2	784.3	790.4	807.2	729.3
45°	872.8	738.5	743.1	682.1	668.4
47.5°	810.3	691.2	692.8	566.1	648.5
50°	735.5	642.4	636.3	485.3	647.0
52.5°	669.9	589.0	570.6	439.4	587.4
55°	605.8	532.5	492.9	404.3	544.8
57.5°	549.3	459.3	421.1	363.1	535.6
60°	497.4	387.5	358.6	318.9	491.3
62.5°	454.7	334.2	328.1	288.4	445.5
65°	408.9	297.5	296.0	262.4	378.5
67.5°	364.7	273.1	271.6	238.0	288.4
70°	317.4	247.2	244.2	212.1	213.6
72.5°	268.6	218.2	215.1	190.7	177.0
75°	219.8	184.6	183.1	166.3	143.5
77.5°	172.4	146.5	149.5	134.3	105.3
80°	123.6	106.8	109.9	96.1	79.3
82.5°	82.4	70.2	73.2	61.1	53.4
85°	45.8	39.7	41.2	32.0	24.4
87.5°	21.3	18.3	18.3	12.2	7.6
90°	31.7	20.2	18.7	13.0	7.2
92.5°	195.5	139.1	126.8	77.8	28.8
95°	481.0	270.9	248.5	158.8	69.1
97.5°	647.9	297.5	277.7	198.7	119.6
100°	708.6	319.9	301.9	230.2	158.5
102.5°	736.5	342.2	325.5	258.6	191.7
105°	757.1	375.3	361.1	304.5	247.8
107.5°	760.9	424.3	411.1	358.3	305.5
110°	755.2	451.7	439.7	392.1	344.3



TEST NUMBER: P936023

CATALOG NUMBER: SQ4-FA-150U-100D-927-1D-UNV-STD-W-6

**CANDELA DISTRIBUTION (continued):**

	330°	337.5°	340°	350°	360°
112.5°	755.4	484.8	473.4	428.0	382.5
115°	762.4	534.5	524.1	482.1	440.1
117.5°	776.6	582.8	573.3	535.2	497.0
120°	788.1	610.9	602.0	566.1	530.2
122.5°	804.6	644.0	635.0	598.8	562.6
125°	827.0	686.5	678.3	645.3	612.3
127.5°	849.3	727.6	719.3	685.9	652.7
130°	865.7	755.0	746.1	710.2	674.3
132.5°	878.9	777.3	768.4	732.5	696.6
135°	893.3	803.3	795.1	762.4	729.7
137.5°	914.9	836.4	828.3	795.9	763.6
140°	928.1	858.7	851.2	821.5	791.7
142.5°	939.2	875.3	868.4	840.8	813.3
145°	953.6	900.5	894.5	870.5	846.5
147.5°	974.7	932.2	926.3	903.0	879.6
150°	985.7	948.7	943.4	922.3	901.2
152.5°	992.9	959.6	955.6	939.6	923.5
155°	1008.8	983.3	980.4	968.5	956.6
157.5°	1024.6	1007.1	1004.2	992.7	981.1
160°	1031.8	1017.9	1015.6	1006.7	997.8
162.5°	1039.5	1029.4	1027.7	1021.0	1014.3
165°	1050.5	1046.0	1044.4	1038.4	1032.3
167.5°	1059.2	1055.4	1054.7	1051.7	1048.9
170°	1066.4	1066.1	1065.4	1062.5	1059.7
172.5°	1066.9	1066.9	1066.8	1066.1	1065.4
175°	1071.2	1073.4	1073.4	1073.4	1073.4
177.5°	1071.7	1073.4	1073.4	1073.4	1073.4
180°	1073.4	1073.4	1073.4	1073.4	1073.4



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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	11.52	12.28	12.58	13.34	14.78	14.35	15.11	15.40	16.17	17.61
	3H	11.99	12.67	13.06	13.74	15.20	15.68	16.36	16.75	17.43	18.89
	4H	12.18	12.82	13.26	13.89	15.36	16.12	16.77	17.20	17.84	19.30
	6H	12.29	12.88	13.38	13.96	15.43	16.40	16.99	17.49	18.07	19.54
	8H	12.29	12.85	13.38	13.94	15.41	16.47	17.03	17.56	18.13	19.59
	12H	12.26	12.79	13.35	13.88	15.37	16.50	17.04	17.60	18.12	19.62
4H	2H	12.54	13.19	13.63	14.26	15.72	14.74	15.39	15.83	16.46	17.92
	3H	13.56	14.10	14.65	15.19	16.67	16.24	16.78	17.33	17.87	19.35
	4H	13.83	14.32	14.93	15.41	16.91	16.76	17.25	17.86	18.34	19.84
	6H	13.95	14.37	15.05	15.48	16.97	17.12	17.54	18.22	18.65	20.14
	8H	13.95	14.35	15.06	15.45	16.96	17.22	17.62	18.33	18.72	20.23
	12H	13.91	14.27	15.04	15.39	16.90	17.27	17.63	18.40	18.75	20.26
8H	4H	14.27	14.67	15.38	15.77	17.28	16.88	17.27	17.98	18.38	19.88
	6H	14.53	14.86	15.66	16.00	17.51	17.31	17.63	18.43	18.78	20.28
	8H	14.57	14.86	15.71	15.99	17.51	17.46	17.74	18.59	18.87	20.39
	12H	14.55	14.80	15.69	15.93	17.49	17.55	17.80	18.69	18.92	20.48
12H	4H	14.28	14.63	15.40	15.75	17.26	16.84	17.19	17.96	18.31	19.82
	6H	14.59	14.88	15.72	16.00	17.53	17.30	17.59	18.44	18.72	20.24
	8H	14.65	14.90	15.79	16.03	17.59	17.46	17.71	18.60	18.83	20.39