

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: FAIL-SAFE

Report Number: P838149

Luminaire Tested: **ORLG-24-4-INS-ASY2R-LD4-2STD-20-120-EDD-90**

Issue Date: 5/21/2024

Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

**Test Information**

Test Method: LM-79-08
Report Number: P838149
Test Lab: INNOVATION CENTER(G2)
Issue Date: 5/21/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: FAIL-SAFE
Catalog Number: ORLG-24-4-INS-ASY2R-LD4-2STD-20-120-EDD-90
Description: 2FT x 4FT ORL LED LUMINAIRE WITH asymmetric/symmetric lens v2 and
RFI grid
Light Source: 2000K CCT, 90 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

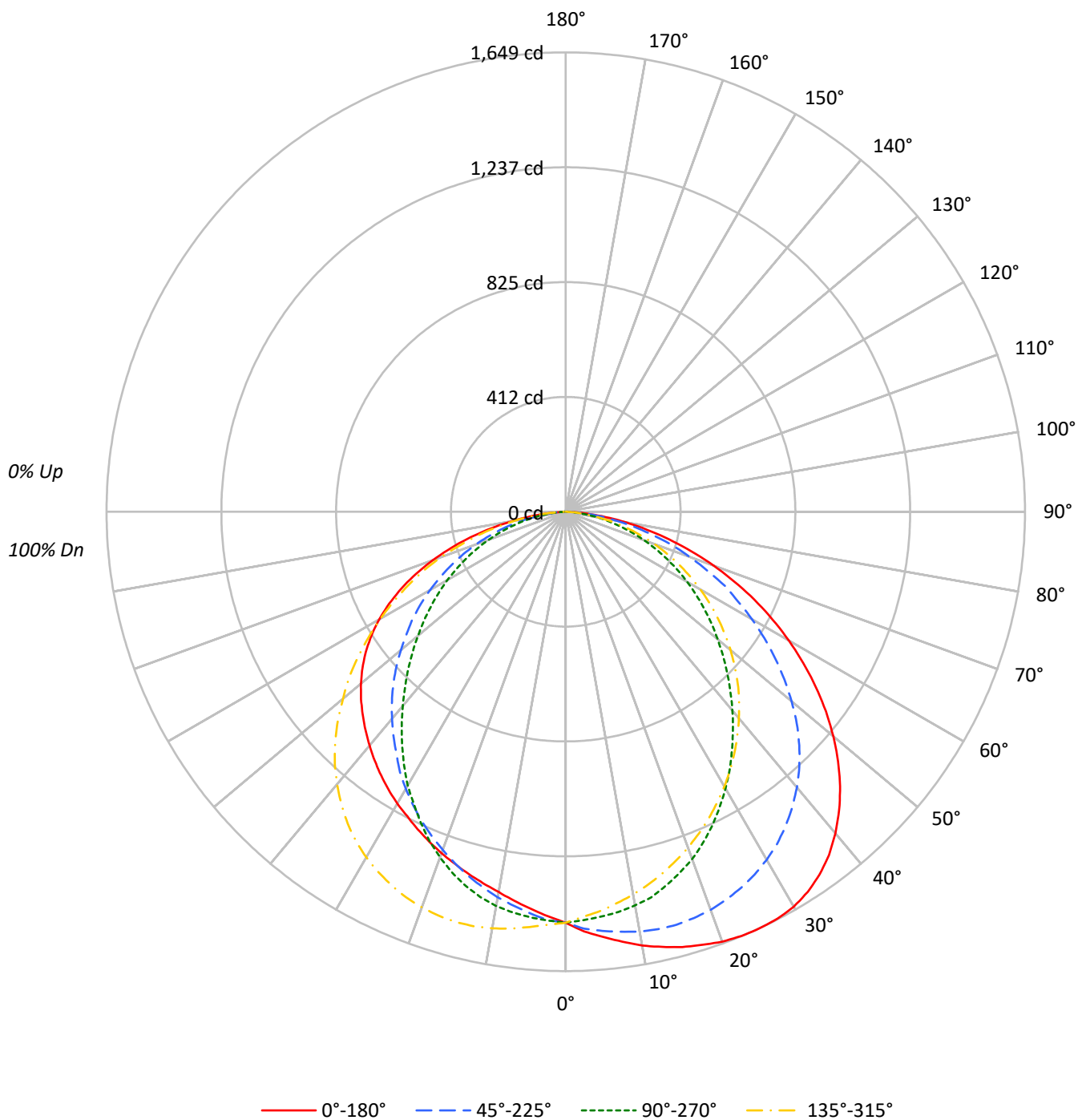
Lumens per Lamp: N/A
Luminaire Lumens: 4327.4 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Spacing Criteria (0/90/45): 1.43 / 1.16 / 1.4
Luminous Opening: Rectangular (W 2' x L: 4' x H: 0')
CIE Type: Direct

Input Watts (W): 66.6
Input Voltage (V): 120
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: 25 FT

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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					10
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		
1	109	104	100	96	106	102	98	94	97	94	91	94	91	89	90	88	86	84		
2	99	91	84	78	96	89	82	77	85	80	75	82	77	73	79	75	72	70		
3	90	79	71	65	88	78	70	64	75	68	63	72	66	62	69	65	61	59		
4	82	70	61	55	80	69	61	54	66	59	53	64	58	53	62	56	52	50		
5	76	63	54	47	74	62	53	47	59	52	46	57	51	46	56	50	45	43		
6	70	56	47	41	68	55	47	41	54	46	40	52	45	40	50	44	40	38		
7	65	51	42	36	63	50	42	36	49	41	36	47	40	35	46	40	35	33		
8	60	47	38	32	59	46	38	32	45	37	32	43	37	32	42	36	31	29		
9	56	43	34	29	55	42	34	29	41	34	29	40	33	28	39	33	28	26		
10	53	39	31	26	51	39	31	26	38	31	26	37	30	26	36	30	26	24		

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°	270°
0°	1985	1985	1985	1985
5°	2068	1970	1933	1974
10°	2160	1960	1894	1963
15°	2253	1935	1875	1936
20°	2351	1900	1867	1889
25°	2449	1847	1867	1828
30°	2543	1783	1879	1763
35°	2611	1710	1898	1682
40°	2646	1636	1925	1599
45°	2651	1561	1962	1522
50°	2626	1490	2010	1450
55°	2571	1424	2055	1384
60°	2491	1355	2082	1319
65°	2379	1275	2071	1245
70°	2222	1182	1998	1160
75°	2000	1054	1834	1048
80°	1695	883	1541	896
85°	1179	584	977	601

Classified

Scaled Data Report

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.0	3.2
10°-20°	405.5	9.4
20°-30°	621.5	14.4
30°-40°	755.7	17.5
40°-50°	785.6	18.2
50°-60°	709.6	16.4
60°-70°	539.5	12.5
70°-80°	300.8	7.0
80°-90°	69.2	1.6
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1167.0	27.0
0°-40°	1922.7	44.4
0°-60°	3417.9	79.0
0°-90°	4327.4	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4327.4	100.0

CANDELA DISTRIBUTION:

	0°	90°	180°	270°	360°	Flux
0°	1475	1475	1475	1475	1475	
5°	1531	1459	1431	1461	1531	148
15°	1617	1389	1346	1390	1617	459
25°	1649	1244	1258	1231	1649	762
35°	1590	1041	1156	1024	1590	993
45°	1393	821	1031	800	1393	1073
55°	1096	607	876	590	1096	979
65°	747	400	651	391	747	738
75°	385	203	353	202	385	409
85°	76	38	63	39	76	96
90°	0	0	0	0	0	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0
2.5°	1507.7	1485.6	1486.0	1505.3	1490.5	1497.7	1477.0	1485.0	1482.5	1484.3	1467.4
5°	1531.4	1507.7	1507.3	1523.8	1507.3	1510.4	1484.3	1489.4	1481.9	1477.0	1458.8
7.5°	1556.5	1532.8	1530.4	1544.8	1523.1	1520.7	1491.8	1491.8	1478.1	1466.0	1448.8
10°	1581.3	1556.9	1553.8	1564.8	1537.9	1530.0	1494.9	1489.4	1471.2	1453.3	1434.7
12.5°	1599.9	1575.1	1572.7	1579.6	1549.3	1534.8	1494.9	1484.3	1457.4	1432.3	1417.9
15°	1617.4	1592.0	1585.4	1588.9	1554.1	1534.8	1490.1	1473.6	1439.2	1406.2	1389.3
17.5°	1629.8	1605.4	1598.8	1598.5	1556.5	1529.0	1479.8	1457.1	1415.8	1375.9	1359.0
20°	1642.2	1617.8	1609.5	1603.3	1555.8	1521.1	1464.7	1434.0	1385.9	1341.1	1327.0
22.5°	1648.4	1623.3	1614.3	1605.0	1551.4	1506.6	1446.1	1407.2	1352.2	1298.8	1287.1
25°	1649.4	1623.6	1614.0	1600.6	1542.4	1489.4	1422.0	1374.9	1313.3	1254.1	1244.1
27.5°	1646.7	1618.5	1608.8	1592.6	1529.0	1468.4	1393.4	1338.0	1272.0	1206.6	1195.9
30°	1637.0	1608.5	1599.2	1578.2	1510.1	1442.6	1362.1	1297.1	1226.2	1156.7	1147.4
32.5°	1617.8	1589.9	1582.3	1561.3	1489.4	1412.7	1325.7	1253.1	1175.6	1109.2	1095.5
35°	1589.6	1561.7	1556.9	1534.8	1460.5	1376.9	1285.7	1204.9	1122.0	1054.2	1040.8
37.5°	1552.7	1529.3	1522.1	1500.4	1426.5	1336.3	1240.0	1152.6	1067.3	994.3	986.1
40°	1506.3	1484.3	1478.8	1459.5	1386.9	1291.3	1190.4	1098.6	1010.8	943.1	931.4
42.5°	1453.3	1432.7	1429.6	1409.6	1338.0	1241.4	1136.8	1042.5	952.0	886.6	874.9
45°	1393.1	1373.1	1372.5	1353.5	1284.7	1186.0	1080.3	985.7	894.6	826.8	820.6
47.5°	1326.7	1308.8	1308.8	1291.3	1225.2	1125.1	1022.2	926.6	836.8	776.9	765.9
50°	1254.4	1237.6	1232.4	1223.8	1159.5	1058.7	961.0	868.7	779.6	722.5	711.9
52.5°	1177.4	1162.9	1166.4	1150.5	1088.3	989.5	899.0	803.7	722.2	670.2	659.6
55°	1096.2	1075.5	1078.6	1072.8	1013.9	918.3	829.5	750.0	665.8	616.9	606.9
57.5°	1011.9	985.0	996.0	992.6	934.8	845.4	765.9	689.1	609.7	564.6	555.0
60°	925.5	899.7	911.1	908.0	853.6	772.4	700.2	628.9	553.9	513.0	503.4
62.5°	836.8	813.0	823.3	820.9	771.0	697.8	634.8	569.4	497.9	461.0	452.1
65°	747.3	724.6	733.9	732.2	686.1	630.3	567.7	507.8	441.4	409.4	400.5
67.5°	655.8	634.8	643.4	643.4	601.1	547.7	500.3	445.6	386.0	358.5	350.3
70°	564.9	545.3	552.9	552.2	516.4	473.1	432.1	383.3	330.0	307.2	300.4
72.5°	473.4	456.2	463.1	462.4	432.5	404.6	364.0	321.7	275.2	257.0	250.8
75°	384.7	368.5	375.0	374.3	349.9	323.8	296.6	261.5	221.6	208.8	202.7
77.5°	300.0	283.5	289.0	289.0	271.1	252.2	230.5	203.3	175.1	161.4	156.9
80°	218.8	210.9	208.2	208.5	196.5	184.1	173.1	146.9	126.3	117.0	113.9
82.5°	143.8	137.3	134.5	135.2	128.3	120.8	113.9	95.6	81.9	76.4	74.7
85°	76.4	71.6	69.2	70.9	69.5	65.4	61.9	49.5	40.9	38.9	37.8
87.5°	24.1	21.0	19.3	25.5	21.7	19.3	18.6	14.8	11.4	11.4	11.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°	185°
0°	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0
2.5°	1472.9	1472.9	1459.5	1456.4	1455.0	1456.7	1443.3	1440.9	1460.2	1453.6	1438.9
5°	1461.2	1460.5	1441.6	1438.2	1438.2	1436.1	1421.0	1417.5	1436.8	1431.3	1415.1
7.5°	1446.8	1444.7	1422.3	1419.9	1416.5	1415.1	1398.3	1395.8	1412.4	1408.9	1393.8
10°	1429.2	1427.2	1400.7	1398.9	1395.2	1392.4	1376.6	1374.9	1391.7	1386.2	1374.2
12.5°	1406.2	1402.4	1375.2	1373.5	1370.4	1369.4	1353.9	1353.2	1371.8	1366.3	1353.5
15°	1375.9	1372.8	1342.5	1343.2	1343.5	1343.5	1331.2	1330.5	1348.7	1346.3	1332.5
17.5°	1342.5	1338.4	1309.5	1311.6	1314.0	1316.7	1307.1	1308.8	1328.1	1325.0	1312.6
20°	1304.7	1300.5	1272.3	1278.2	1283.3	1288.8	1282.7	1287.5	1305.4	1304.0	1294.7
22.5°	1262.4	1258.2	1232.1	1241.0	1249.6	1259.9	1257.2	1262.7	1281.6	1281.3	1273.0
25°	1210.7	1211.8	1188.7	1199.7	1214.2	1228.6	1229.7	1238.6	1259.6	1257.5	1250.0
27.5°	1162.6	1164.0	1139.5	1158.1	1177.4	1195.9	1200.4	1212.8	1234.1	1232.4	1225.9
30°	1112.0	1113.7	1090.0	1115.4	1138.8	1161.5	1171.2	1188.0	1209.7	1209.7	1202.8
32.5°	1059.4	1062.5	1037.7	1071.7	1098.9	1125.4	1142.3	1159.8	1184.6	1183.9	1178.1
35°	1005.3	1008.8	986.1	1029.4	1056.6	1088.9	1109.9	1133.3	1155.3	1155.7	1151.2
37.5°	950.3	954.4	933.8	981.3	1012.2	1050.4	1077.2	1100.6	1125.1	1126.4	1122.3
40°	895.6	900.1	882.2	927.9	967.1	1009.8	1040.8	1068.3	1095.1	1095.8	1093.1
42.5°	840.9	845.7	832.3	877.0	921.4	967.1	1003.6	1034.9	1062.5	1064.2	1061.1
45°	787.6	791.7	782.0	830.9	873.6	923.5	965.4	1000.9	1028.7	1031.1	1030.1
47.5°	734.6	738.3	729.7	774.5	823.7	876.7	925.2	964.4	994.0	996.7	996.0
50°	682.6	685.7	676.4	723.2	772.1	828.5	879.1	924.5	957.5	960.3	959.9
52.5°	631.0	634.1	626.2	675.4	719.8	779.3	834.3	883.5	916.2	920.4	921.0
55°	581.1	582.5	576.3	623.4	666.4	728.7	792.0	839.8	872.5	876.0	878.0
57.5°	531.2	531.6	526.4	571.5	612.8	676.4	742.8	793.1	824.0	827.5	830.6
60°	481.7	481.3	475.5	519.2	558.8	621.7	690.9	740.8	770.7	773.8	777.9
62.5°	432.5	431.4	426.3	466.5	503.7	566.0	635.5	683.6	712.2	714.3	719.8
65°	383.6	382.6	377.8	414.9	448.7	508.2	576.3	622.1	647.9	650.6	649.6
67.5°	335.5	333.4	329.6	363.0	393.6	448.7	514.0	557.7	579.1	581.5	588.0
70°	287.3	284.9	276.3	311.7	338.6	387.8	448.7	487.5	505.4	507.8	506.8
72.5°	239.8	237.4	228.1	260.8	283.5	326.5	380.9	413.2	428.7	430.8	430.8
75°	193.7	192.3	186.5	211.3	230.2	265.3	311.4	338.2	350.3	352.7	352.0
77.5°	149.3	148.3	142.4	163.8	178.6	204.7	241.9	262.9	271.8	274.6	280.4
80°	107.0	106.7	97.4	118.4	124.9	146.9	174.1	190.3	195.1	198.9	203.0
82.5°	68.5	68.8	59.5	77.4	80.2	94.3	111.1	121.1	124.5	127.6	130.7
85°	33.4	34.7	29.6	40.9	41.3	48.5	55.7	59.5	60.9	63.3	66.1
87.5°	8.6	10.0	5.5	11.7	10.3	13.4	15.5	16.5	16.2	17.9	18.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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CANDELA DISTRIBUTION (continued):

	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°	285°
0°	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0
2.5°	1443.7	1454.7	1449.2	1467.1	1473.9	1462.9	1482.2	1482.5	1468.8	1485.0	1493.9
5°	1421.3	1432.7	1429.2	1447.8	1456.4	1446.8	1470.2	1474.6	1461.2	1479.5	1493.9
7.5°	1398.6	1412.0	1407.5	1426.5	1436.8	1429.2	1454.3	1461.6	1451.2	1471.2	1490.5
10°	1379.0	1390.3	1385.5	1405.5	1414.4	1408.2	1433.0	1446.4	1436.8	1461.2	1484.3
12.5°	1359.7	1369.0	1363.5	1380.0	1388.6	1380.7	1411.0	1423.4	1416.5	1442.0	1471.5
15°	1334.9	1345.3	1337.7	1352.5	1359.0	1352.2	1376.9	1398.3	1389.7	1417.5	1450.2
17.5°	1316.0	1321.9	1311.6	1323.2	1327.0	1317.7	1342.9	1363.8	1357.7	1387.9	1425.8
20°	1295.0	1299.9	1285.4	1291.9	1291.6	1279.9	1303.0	1323.6	1319.5	1352.8	1395.8
22.5°	1271.6	1274.0	1257.2	1258.6	1257.9	1238.6	1259.3	1280.2	1278.5	1312.2	1360.4
25°	1246.9	1247.2	1225.5	1224.8	1217.3	1194.6	1212.8	1236.5	1231.4	1267.9	1318.4
27.5°	1222.4	1219.0	1192.9	1186.7	1174.6	1147.4	1163.6	1184.9	1181.8	1217.6	1273.7
30°	1196.3	1191.8	1159.8	1148.5	1130.9	1099.6	1113.0	1133.0	1134.7	1166.0	1224.8
32.5°	1171.5	1160.2	1124.7	1108.2	1086.2	1049.7	1056.9	1077.2	1080.0	1111.7	1172.2
35°	1139.5	1132.0	1088.3	1060.0	1038.4	998.5	1006.0	1020.1	1024.3	1055.2	1116.8
37.5°	1109.2	1097.2	1050.8	1016.3	988.5	946.5	948.6	963.0	967.1	998.5	1059.4
40°	1077.9	1060.7	1010.8	970.6	938.6	894.6	892.1	907.3	910.4	941.0	996.0
42.5°	1044.6	1023.9	967.8	923.8	887.0	842.3	837.4	850.5	854.0	883.9	937.9
45°	1010.8	986.1	923.8	875.6	835.4	789.6	784.8	794.8	799.9	828.1	880.1
47.5°	975.1	946.2	878.4	824.7	783.1	737.3	731.5	741.4	745.6	773.4	822.6
50°	937.6	902.5	831.6	772.4	731.1	686.1	677.5	689.1	692.9	719.1	767.3
52.5°	896.3	857.4	781.7	719.8	678.5	635.5	625.2	636.5	641.0	666.4	710.8
55°	852.6	810.6	731.5	671.3	626.5	584.6	576.0	580.4	590.1	614.1	655.4
57.5°	803.4	761.7	678.5	617.2	574.2	534.0	526.8	530.9	539.8	563.2	600.4
60°	751.1	707.0	624.5	563.2	521.6	483.4	476.9	480.7	490.3	511.6	546.0
62.5°	699.5	649.9	568.7	507.8	470.0	434.5	432.8	431.4	440.4	461.0	491.3
65°	636.9	589.4	510.6	452.8	418.4	386.4	379.5	382.6	391.2	410.1	441.8
67.5°	569.8	526.8	451.1	397.7	367.1	338.6	332.7	334.1	343.0	359.5	387.1
70°	498.5	460.7	390.2	342.3	316.5	289.7	285.9	286.3	294.9	309.3	333.4
72.5°	423.9	389.8	328.6	287.6	266.3	247.0	243.6	239.5	247.4	259.8	280.4
75°	347.8	317.9	267.3	234.0	217.1	200.9	197.8	193.7	201.6	212.3	228.5
77.5°	271.1	247.0	207.8	182.0	168.9	156.9	154.1	149.7	157.6	165.5	178.2
80°	196.1	178.6	155.2	128.0	123.5	115.6	112.9	108.0	115.6	120.8	130.4
82.5°	126.6	114.9	101.5	82.6	81.9	76.0	74.7	69.2	76.0	79.1	86.4
85°	64.0	58.5	55.0	42.0	43.4	39.6	39.2	33.4	38.9	40.3	44.4
87.5°	18.2	19.3	17.2	10.3	13.1	12.4	12.4	8.9	12.4	12.4	14.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

TEST NUMBER: P838149

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CANDELA DISTRIBUTION (continued):

	295°	305°	315°	325°	335°	345°	355°	360°
0°	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0	1475.0
2.5°	1476.4	1482.2	1483.6	1483.2	1487.0	1507.7	1500.8	1507.7
5°	1479.8	1492.9	1496.3	1501.1	1507.3	1530.7	1523.1	1531.4
7.5°	1481.9	1501.5	1509.0	1518.3	1528.3	1554.5	1548.3	1556.5
10°	1481.9	1507.3	1518.3	1533.8	1547.2	1577.5	1571.7	1581.3
12.5°	1475.7	1508.4	1523.8	1545.5	1562.7	1595.4	1593.0	1599.9
15°	1462.9	1503.2	1524.5	1552.4	1573.7	1610.2	1609.2	1617.4
17.5°	1445.7	1494.2	1520.1	1555.1	1582.0	1622.9	1625.3	1629.8
20°	1424.1	1477.4	1511.1	1554.1	1587.8	1632.9	1636.0	1642.2
22.5°	1395.5	1457.1	1497.7	1549.6	1588.5	1637.0	1642.5	1648.4
25°	1361.8	1432.7	1480.1	1541.0	1585.1	1636.7	1644.3	1649.4
27.5°	1323.2	1401.0	1457.8	1527.3	1575.4	1631.2	1640.5	1646.7
30°	1278.5	1367.3	1432.3	1509.4	1562.4	1620.9	1630.8	1637.0
32.5°	1232.4	1330.1	1402.0	1486.3	1543.4	1604.3	1612.9	1617.8
35°	1182.2	1285.1	1365.6	1456.7	1519.0	1577.9	1584.4	1589.6
37.5°	1127.5	1236.2	1323.9	1423.4	1484.6	1541.0	1546.9	1552.7
40°	1071.1	1184.9	1277.1	1382.4	1443.7	1496.0	1502.2	1506.3
42.5°	1014.3	1128.2	1227.3	1334.3	1395.2	1445.4	1449.2	1453.3
45°	956.8	1069.3	1171.2	1280.9	1341.1	1388.3	1389.7	1393.1
47.5°	898.3	1008.4	1109.6	1220.0	1279.6	1322.6	1323.9	1326.7
50°	839.5	947.5	1043.9	1154.3	1212.5	1257.9	1251.7	1254.4
52.5°	781.7	883.5	981.9	1083.4	1140.9	1181.2	1182.9	1177.4
55°	724.9	820.9	911.4	1009.1	1063.8	1095.1	1094.1	1096.2
57.5°	667.5	757.6	840.5	930.0	983.3	1012.9	1019.1	1011.9
60°	609.0	693.6	767.9	848.8	900.4	925.2	932.4	925.5
62.5°	550.8	628.6	696.0	766.6	814.4	845.0	844.3	836.8
65°	492.7	563.2	623.4	683.3	724.9	755.6	754.2	747.3
67.5°	439.0	497.2	551.2	599.7	635.8	656.8	664.0	655.8
70°	379.8	430.1	477.6	516.4	546.4	565.3	572.2	564.9
72.5°	320.7	363.3	396.7	434.2	457.3	473.1	480.3	473.4
75°	262.2	297.3	324.4	353.7	369.9	383.3	391.5	384.7
77.5°	205.4	232.6	254.3	275.6	294.2	297.3	304.5	300.0
80°	151.4	171.0	186.8	200.9	214.3	215.7	221.6	218.8
82.5°	100.8	113.9	118.0	132.8	141.4	140.0	145.9	143.8
85°	53.3	61.2	68.5	72.9	77.8	73.3	78.4	76.4
87.5°	17.9	18.9	16.5	23.4	25.8	22.0	25.1	24.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)