

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: P709374

Luminaire Tested: DL2W-WB-M-100U-050D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709374
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-100U-050D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 500 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6068.4 lumens
Efficiency: N/A
Efficacy: 118.5 lumens/watt
Spacing Criteria (0/90/45): 1.19 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Indirect

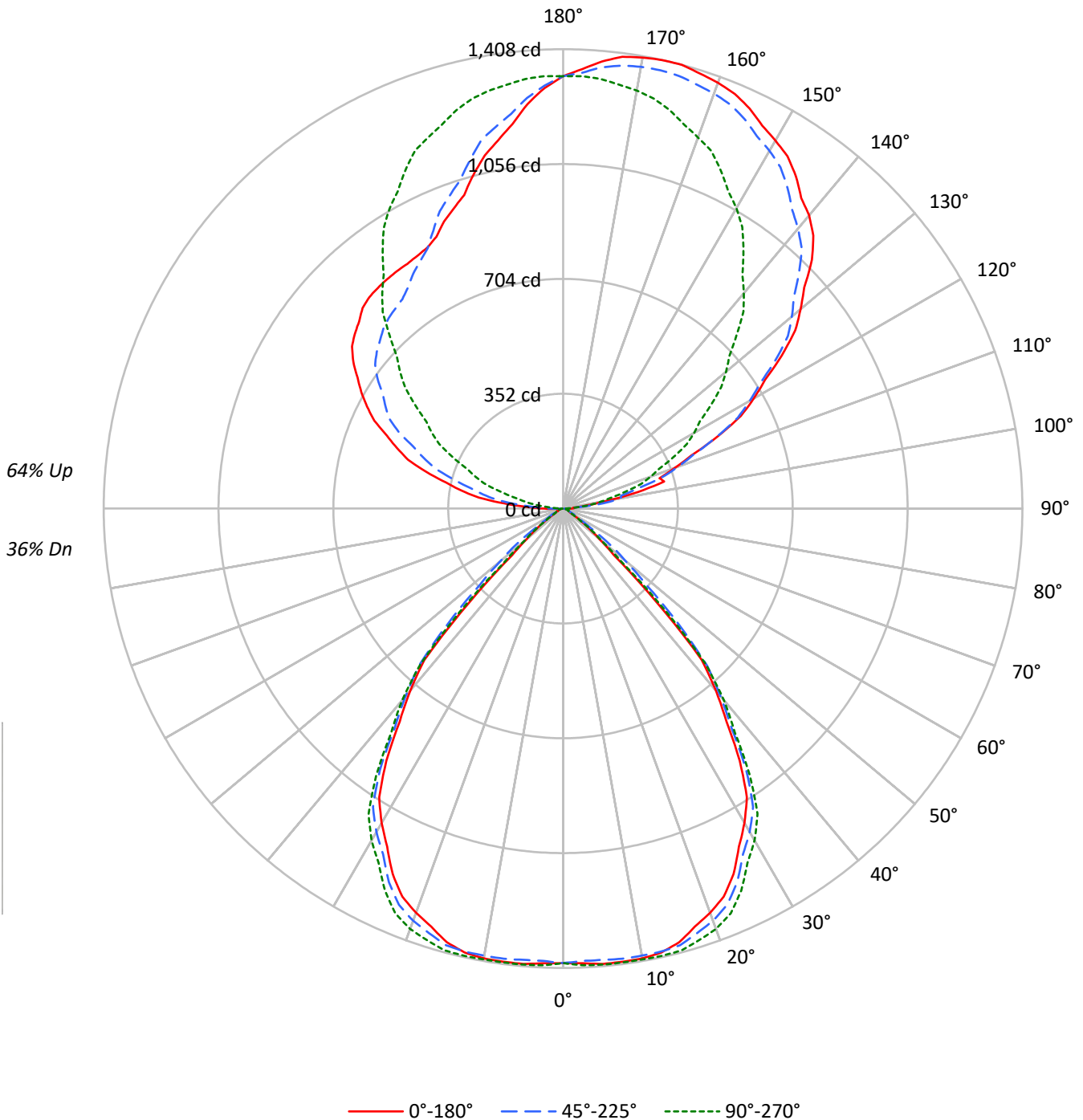
Input Watts (W): 51.2
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	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	59	59	59	43	43	43	36				
1	96	92	89	86	87	84	81	79	68	66	65	54	52	51	40	40	39	33				
2	88	82	77	72	80	75	70	67	61	58	56	49	47	45	37	36	35	30				
3	82	73	67	62	74	67	62	57	55	52	48	44	42	40	34	33	32	27				
4	75	66	59	54	68	60	54	50	50	46	43	40	38	35	32	30	28	25				
5	70	59	52	47	63	55	48	44	45	41	38	37	34	32	29	27	26	22				
6	65	54	46	41	59	49	43	39	41	37	33	34	31	28	27	25	23	20				
7	60	49	42	37	55	45	39	34	38	33	30	31	28	26	25	23	21	19				
8	56	45	38	33	51	41	35	31	35	30	27	29	26	23	23	21	19	17				
9	52	41	34	29	48	38	32	28	32	28	24	27	23	21	22	19	18	16				
10	49	38	31	27	45	35	29	25	30	25	22	25	22	19	20	18	16	14				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	22491	22491	22491	22491	22491
5°	22707	22503	22739	22503	22707
10°	22953	22810	23002	22810	22953
15°	23000	23156	23435	23156	23000
20°	22646	23097	23557	23097	22646
25°	22019	22502	23017	22502	22019
30°	20732	21333	21888	21333	20732
35°	18607	19295	19671	19295	18607
40°	15365	15823	16166	15823	15365
45°	9225	11424	10229	11424	9225
50°	3642	6300	3969	6300	3642
55°	1942	2859	1914	2859	1942
60°	840	1426	904	1426	840
65°	764	867	802	867	764
70°	755	807	803	807	755
75°	686	805	749	805	686
80°	651	744	744	744	651
85°	556	741	741	741	556

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 11501 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.4	2.2
10°-20°	391.4	6.4
20°-30°	579.5	9.6
30°-40°	600.3	9.9
40°-50°	360.8	5.9
50°-60°	86.2	1.4
60°-70°	23.5	0.4
70°-80°	13.1	0.2
80°-90°	9.7	0.2
90°-100°	105.4	1.7
100°-110°	307.9	5.1
110°-120°	502.1	8.3
120°-130°	637.2	10.5
130°-140°	681.7	11.2
140°-150°	636.5	10.5
150°-160°	523.7	8.6
160°-170°	351.2	5.8
170°-180°	124.7	2.1
0°-30°	1104.3	18.2
0°-40°	1704.6	28.1
0°-60°	2151.6	35.5
0°-90°	2197.9	36.2
90°-120°	915.4	15.1
90°-150°	2870.9	47.3
90°-180°	3870.0	63.8
0°-180°	6068.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	1393	1393	1393	1393	1393	
5°	1401	1388	1403	1388	1401	134
15°	1376	1385	1402	1385	1376	387
25°	1236	1263	1292	1263	1236	565
35°	944	979	998	979	944	582
45°	404	500	448	500	404	318
55°	69	102	68	102	69	67
65°	20	23	21	23	20	20
75°	11	13	12	13	11	12
85°	3	4	4	4	3	4
90°	28	26	4	36	63	13
95°	31	40	41	136	181	51
105°	321	234	196	350	434	295
115°	522	519	373	556	638	514
125°	818	796	553	694	785	729
135°	1079	1024	752	779	869	826
145°	1244	1200	964	828	888	777
155°	1353	1317	1144	940	919	623
165°	1408	1373	1264	1104	1060	397
175°	1376	1358	1322	1264	1245	132
180°	1325	1325	1325	1325	1325	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1394.6	1396.0	1397.4	1393.5	1387.8	1387.5	1392.5	1396.7	1398.9	1401.0	1398.9
5°	1401.0	1401.9	1402.8	1397.0	1389.0	1387.9	1393.7	1398.6	1400.8	1403.0	1400.8
7.5°	1400.8	1402.1	1403.5	1398.8	1392.1	1391.2	1396.1	1400.2	1401.6	1403.0	1401.6
10°	1400.0	1401.3	1402.7	1398.0	1391.3	1391.3	1398.0	1403.0	1403.0	1403.0	1403.0
12.5°	1393.6	1395.6	1397.7	1394.5	1389.6	1391.8	1400.9	1407.4	1405.6	1403.8	1405.6
15°	1376.0	1379.1	1382.2	1382.7	1382.2	1388.4	1401.3	1410.0	1406.0	1402.0	1406.0
17.5°	1343.6	1347.9	1352.1	1355.8	1359.3	1369.9	1387.7	1399.4	1393.2	1387.0	1393.2
20°	1318.0	1321.6	1325.1	1331.0	1337.7	1350.8	1370.3	1383.4	1377.2	1371.0	1377.2
22.5°	1287.6	1291.5	1295.4	1301.1	1307.4	1321.1	1342.1	1356.2	1349.6	1343.0	1349.6
25°	1236.0	1239.6	1243.1	1249.3	1256.4	1269.8	1289.3	1302.7	1297.3	1292.0	1297.3
27.5°	1168.0	1171.9	1175.8	1181.8	1188.5	1200.2	1217.1	1229.2	1226.8	1224.4	1226.8
30°	1112.0	1117.3	1122.7	1130.3	1138.8	1149.7	1163.0	1173.1	1173.6	1174.0	1173.6
32.5°	1048.8	1055.9	1063.0	1070.9	1079.0	1089.1	1101.4	1110.4	1109.8	1109.2	1109.8
35°	944.0	951.6	959.1	967.0	975.0	982.8	990.3	996.2	997.1	998.0	997.1
37.5°	822.6	825.5	828.5	835.7	844.3	852.6	860.7	866.6	866.0	865.4	866.0
40°	729.0	729.4	729.9	737.0	746.3	755.2	763.7	769.7	768.3	767.0	768.3
42.5°	629.0	630.9	632.7	640.5	650.2	658.2	664.5	666.7	656.9	647.0	656.9
45°	404.0	436.9	469.8	486.3	497.4	503.2	503.7	497.8	472.9	448.0	472.9
47.5°	211.4	243.8	276.3	309.1	342.1	349.8	332.3	311.4	280.3	249.2	280.3
50°	145.0	156.1	167.2	203.0	247.0	254.6	225.7	198.9	178.4	158.0	178.4
52.5°	105.8	112.6	119.5	147.3	182.0	185.1	156.6	132.7	122.5	112.4	122.5
55°	69.0	70.8	72.6	85.0	101.0	102.1	88.3	76.9	72.4	68.0	72.4
57.5°	41.2	44.9	48.7	54.3	60.6	60.8	54.9	49.4	45.5	41.6	45.5
60°	26.0	28.7	31.3	37.0	43.7	44.6	39.7	35.1	31.6	28.0	31.6
62.5°	23.6	24.5	25.4	29.3	34.2	34.5	30.3	26.9	25.9	24.8	25.9
65°	20.0	20.4	20.9	21.7	22.6	22.8	22.3	21.9	21.4	21.0	21.4
67.5°	17.6	18.0	18.5	18.9	19.2	19.4	19.5	19.5	19.0	18.6	19.0
70°	16.0	16.4	16.9	17.0	17.0	17.2	17.7	17.9	17.4	17.0	17.4
72.5°	14.4	14.5	14.6	14.9	15.2	15.4	15.5	15.6	15.5	15.4	15.5
75°	11.0	11.4	11.9	12.3	12.8	13.0	13.0	12.9	12.4	12.0	12.4
77.5°	8.6	9.0	9.5	9.6	9.6	9.8	10.1	10.3	10.0	9.6	10.0
80°	7.0	7.4	7.9	8.0	8.0	8.0	8.0	8.0	8.0	8.0	8.0
82.5°	5.4	5.8	6.3	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4
85°	3.0	3.4	3.9	4.0	4.0	4.0	4.0	4.0	4.0	4.0	4.0
87.5°	6.4	6.6	6.6	6.3	6.6	6.6	5.8	5.0	3.6	2.4	3.4
90°	28.0	29.0	29.0	26.0	26.0	25.0	21.0	17.0	10.0	4.0	9.0
92.5°	34.4	33.8	33.8	32.4	30.8	28.2	23.4	22.6	24.4	15.2	25.8
95°	31.0	31.0	30.0	30.0	35.0	44.0	65.0	71.0	46.0	41.0	59.0
97.5°	71.0	75.6	84.2	97.2	119.4	127.4	117.8	88.8	84.0	81.0	107.8
100°	135.0	146.0	157.0	170.0	197.0	161.0	125.0	120.0	112.0	113.0	143.0
102.5°	235.8	236.4	241.0	246.0	193.8	171.4	165.8	159.2	146.4	146.6	177.4
105°	321.0	300.0	262.0	236.0	232.0	236.0	236.0	221.0	195.0	196.0	228.0
107.5°	309.8	307.4	309.0	310.0	316.4	317.8	309.2	282.2	255.4	249.8	282.2
110°	365.0	365.0	369.0	370.0	378.0	373.0	362.0	327.0	293.0	285.0	315.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	425.0	425.8	427.4	432.4	436.4	429.0	411.6	373.4	334.6	318.6	347.8
115°	522.0	521.0	521.0	525.0	523.0	515.0	489.0	445.0	395.0	373.0	398.0
117.5°	614.2	609.2	610.4	608.8	611.8	595.8	565.2	511.4	457.8	427.2	445.6
120°	675.0	670.0	672.0	672.0	671.0	651.0	614.0	561.0	501.0	464.0	476.0
122.5°	734.2	730.8	731.2	728.8	726.2	707.0	663.6	608.2	542.6	496.8	504.0
125°	818.0	820.0	814.0	814.0	805.0	786.0	740.0	681.0	610.0	553.0	549.0
127.5°	897.2	900.0	894.0	890.4	883.4	854.8	812.8	753.6	677.4	610.4	594.4
130°	950.0	952.0	950.0	940.0	929.0	902.0	860.0	804.0	723.0	652.0	624.0
132.5°	1002.8	1007.2	997.2	989.6	973.0	945.2	904.0	849.6	768.6	691.2	656.0
135°	1079.0	1076.0	1066.0	1054.0	1037.0	1010.0	972.0	915.0	838.0	752.0	707.0
137.5°	1135.4	1135.8	1126.0	1112.8	1095.4	1070.2	1034.2	980.6	902.2	818.0	760.2
140°	1173.0	1171.0	1162.0	1148.0	1133.0	1107.0	1075.0	1023.0	943.0	862.0	797.0
142.5°	1199.4	1201.4	1194.0	1182.4	1165.0	1142.2	1109.4	1057.4	987.0	902.8	834.6
145°	1244.0	1244.0	1237.0	1229.0	1213.0	1187.0	1162.0	1111.0	1044.0	964.0	889.0
147.5°	1280.4	1281.0	1276.6	1267.2	1251.6	1229.2	1204.0	1158.4	1096.2	1022.2	949.4
150°	1302.0	1305.0	1299.0	1292.0	1278.0	1254.0	1232.0	1188.0	1129.0	1063.0	987.0
152.5°	1322.8	1326.6	1321.4	1312.8	1298.8	1274.8	1256.0	1212.8	1157.8	1096.6	1023.8
155°	1353.0	1356.0	1352.0	1344.0	1328.0	1306.0	1289.0	1249.0	1200.0	1144.0	1079.0
157.5°	1375.4	1380.2	1374.4	1367.2	1350.0	1330.6	1314.6	1277.4	1233.6	1186.8	1128.8
160°	1389.0	1393.0	1388.0	1380.0	1362.0	1345.0	1329.0	1295.0	1256.0	1210.0	1160.0
162.5°	1397.8	1404.2	1398.4	1389.6	1370.8	1354.6	1341.0	1308.6	1272.8	1234.0	1188.0
165°	1408.0	1413.0	1408.0	1399.0	1380.0	1366.0	1355.0	1327.0	1296.0	1264.0	1225.0
167.5°	1408.0	1414.2	1409.4	1401.6	1381.6	1370.8	1362.4	1339.0	1313.2	1286.6	1257.6
170°	1404.0	1411.0	1407.0	1400.0	1380.0	1370.0	1364.0	1343.0	1322.0	1301.0	1276.0
172.5°	1396.8	1403.8	1399.0	1392.8	1372.8	1366.0	1362.4	1345.4	1327.6	1310.6	1290.4
175°	1376.0	1385.0	1382.0	1375.0	1360.0	1355.0	1356.0	1344.0	1332.0	1322.0	1309.0
177.5°	1348.2	1354.6	1351.4	1349.8	1337.8	1336.2	1341.8	1336.2	1330.6	1326.6	1321.0
180°	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0	1393.0
2.5°	1396.7	1392.5	1387.5	1387.8	1393.5	1397.4	1396.0	1394.6
5°	1398.6	1393.7	1387.9	1389.0	1397.0	1402.8	1401.9	1401.0
7.5°	1400.2	1396.1	1391.2	1392.1	1398.8	1403.5	1402.1	1400.8
10°	1403.0	1398.0	1391.3	1391.3	1398.0	1402.7	1401.3	1400.0
12.5°	1407.4	1400.9	1391.8	1389.6	1394.5	1397.7	1395.6	1393.6
15°	1410.0	1401.3	1388.4	1382.2	1382.7	1382.2	1379.1	1376.0
17.5°	1399.4	1387.7	1369.9	1359.3	1355.8	1352.1	1347.9	1343.6
20°	1383.4	1370.3	1350.8	1337.7	1331.0	1325.1	1321.6	1318.0
22.5°	1356.2	1342.1	1321.1	1307.4	1301.1	1295.4	1291.5	1287.6
25°	1302.7	1289.3	1269.8	1256.4	1249.3	1243.1	1239.6	1236.0
27.5°	1229.2	1217.1	1200.2	1188.5	1181.8	1175.8	1171.9	1168.0
30°	1173.1	1163.0	1149.7	1138.8	1130.3	1122.7	1117.3	1112.0
32.5°	1110.4	1101.4	1089.1	1079.0	1070.9	1063.0	1055.9	1048.8
35°	996.2	990.3	982.8	975.0	967.0	959.1	951.6	944.0
37.5°	866.6	860.7	852.6	844.3	835.7	828.5	825.5	822.6
40°	769.7	763.7	755.2	746.3	737.0	729.9	729.4	729.0
42.5°	666.7	664.5	658.2	650.2	640.5	632.7	630.9	629.0
45°	497.8	503.7	503.2	497.4	486.3	469.8	436.9	404.0
47.5°	311.4	332.3	349.8	342.1	309.1	276.3	243.8	211.4
50°	198.9	225.7	254.6	247.0	203.0	167.2	156.1	145.0
52.5°	132.7	156.6	185.1	182.0	147.3	119.5	112.6	105.8
55°	76.9	88.3	102.1	101.0	85.0	72.6	70.8	69.0
57.5°	49.4	54.9	60.8	60.6	54.3	48.7	44.9	41.2
60°	35.1	39.7	44.6	43.7	37.0	31.3	28.7	26.0
62.5°	26.9	30.3	34.5	34.2	29.3	25.4	24.5	23.6
65°	21.9	22.3	22.8	22.6	21.7	20.9	20.4	20.0
67.5°	19.5	19.5	19.4	19.2	18.9	18.5	18.0	17.6
70°	17.9	17.7	17.2	17.0	17.0	16.9	16.4	16.0
72.5°	15.6	15.5	15.4	15.2	14.9	14.6	14.5	14.4
75°	12.9	13.0	13.0	12.8	12.3	11.9	11.4	11.0
77.5°	10.3	10.1	9.8	9.6	9.6	9.5	9.0	8.6
80°	8.0	8.0	8.0	8.0	8.0	7.9	7.4	7.0
82.5°	6.4	6.4	6.4	6.4	6.4	6.3	5.8	5.4
85°	4.0	4.0	4.0	4.0	4.0	3.9	3.4	3.0
87.5°	4.8	6.2	7.8	9.8	11.1	12.0	12.6	13.4
90°	16.0	23.0	31.0	42.0	50.0	56.0	59.0	63.0
92.5°	36.8	51.0	62.2	75.6	90.0	97.6	102.2	103.8
95°	85.0	103.0	126.0	146.0	164.0	176.0	183.0	181.0
97.5°	131.8	165.4	191.6	214.8	235.8	250.2	261.6	260.6
100°	171.0	199.0	234.0	262.0	283.0	299.0	312.0	315.0
102.5°	210.2	236.6	274.8	306.0	330.2	347.8	357.6	367.0
105°	265.0	302.0	331.0	369.0	394.0	417.0	424.0	434.0
107.5°	322.4	363.0	395.2	426.8	456.4	475.6	490.6	498.6
110°	360.0	399.0	440.0	470.0	498.0	518.0	533.0	541.0

TEST NUMBER: P709374

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	393.6	436.6	480.8	514.0	539.6	562.8	575.4	584.2
115°	443.0	490.0	534.0	577.0	602.0	620.0	631.0	638.0
117.5°	488.2	537.2	580.0	623.4	654.6	667.8	672.0	677.2
120°	517.0	566.0	608.0	649.0	685.0	699.0	708.0	714.0
122.5°	542.6	591.6	636.0	674.6	709.0	728.6	739.2	746.8
125°	582.0	628.0	674.0	715.0	743.0	764.0	778.0	785.0
127.5°	615.2	659.4	706.6	746.0	776.2	798.4	810.0	815.4
130°	640.0	677.0	725.0	766.0	797.0	820.0	830.0	833.0
132.5°	664.0	693.8	739.4	782.8	813.8	834.4	845.2	848.2
135°	701.0	718.0	758.0	800.0	832.0	853.0	863.0	869.0
137.5°	741.8	746.2	771.0	812.2	845.2	865.4	875.4	879.0
140°	769.0	767.0	783.0	817.0	850.0	871.0	881.0	883.0
142.5°	797.8	789.4	795.0	822.6	852.4	872.6	883.4	886.2
145°	846.0	828.0	821.0	835.0	857.0	874.0	886.0	888.0
147.5°	897.8	868.8	853.0	855.6	867.6	879.6	889.0	889.2
150°	933.0	900.0	877.0	874.0	878.0	886.0	893.0	894.0
152.5°	966.6	931.2	903.4	895.6	893.2	898.0	901.0	901.2
155°	1023.0	985.0	949.0	932.0	925.0	923.0	922.0	919.0
157.5°	1076.4	1036.0	996.2	977.8	966.6	960.4	955.8	952.6
160°	1110.0	1068.0	1029.0	1009.0	997.0	990.0	983.0	979.0
162.5°	1144.4	1104.8	1065.0	1041.8	1029.8	1022.0	1014.2	1007.8
165°	1190.0	1157.0	1117.0	1092.0	1077.0	1072.0	1065.0	1060.0
167.5°	1230.0	1204.4	1168.6	1145.0	1133.6	1124.4	1117.4	1108.4
170°	1254.0	1234.0	1199.0	1177.0	1172.0	1162.0	1155.0	1146.0
172.5°	1273.2	1257.2	1229.4	1211.4	1207.2	1201.2	1195.8	1188.4
175°	1299.0	1291.0	1270.0	1257.0	1257.0	1255.0	1254.0	1245.0
177.5°	1317.0	1313.0	1301.0	1294.6	1300.2	1301.8	1297.8	1290.6
180°	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0	1325.0

(END OF REPORT)