

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: P709384

Luminaire Tested: DL2W-WB-M-100U-125D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709384
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-8)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-100U-125D-940-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 1000 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9849.4 lumens
Efficiency: N/A
Efficacy: 119.0 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: General Diffuse

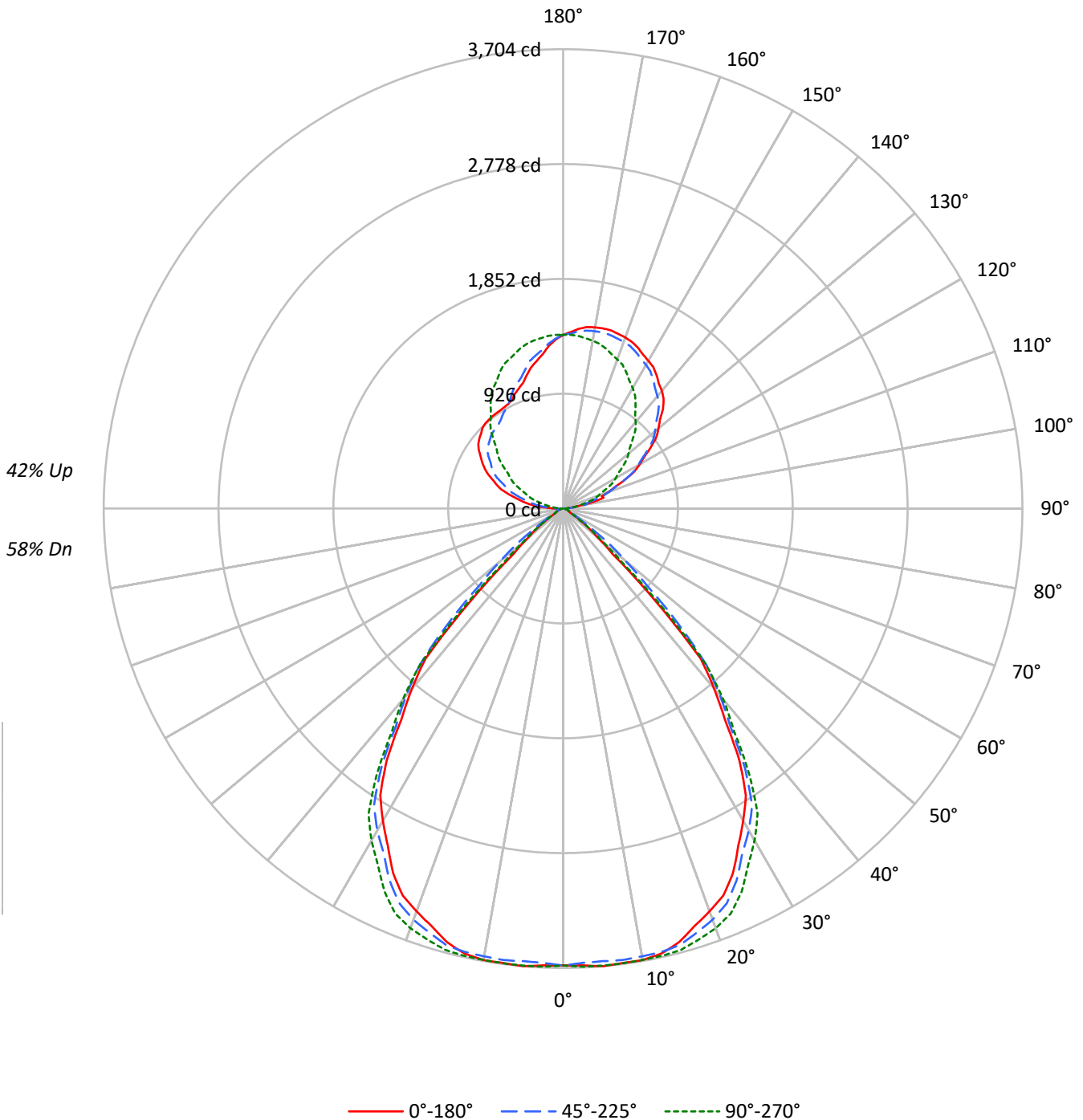
Input Watts (W): 82.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Luminous Intensity Polar Plot



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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20				
RC	80					70					50					30				
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																				
0	109	109	109	109	102	102	102	102	88	88	88	75	75	75	64	64	64	58		
1	102	98	95	92	95	92	89	87	80	78	77	70	68	67	60	59	58	53		
2	94	88	83	79	88	83	79	75	73	70	67	64	62	60	55	54	52	48		
3	88	80	74	69	82	75	70	65	67	62	59	59	56	53	51	49	47	44		
4	81	72	65	60	76	68	62	58	61	56	53	54	50	48	47	45	43	40		
5	76	66	59	53	71	62	56	51	56	51	47	49	46	43	44	41	39	36		
6	71	60	53	48	66	57	50	46	51	46	42	46	42	39	41	38	35	33		
7	66	55	48	43	62	52	46	41	47	42	38	42	38	35	38	35	32	30		
8	62	50	43	39	58	48	42	37	43	38	35	39	35	32	35	32	30	28		
9	58	47	40	35	54	44	38	34	40	35	32	36	32	29	33	30	27	25		
10	54	43	36	32	51	41	35	31	37	32	29	34	30	27	31	27	25	23		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	59473	59473	59473	59473	59473
5°	60026	59373	59940	59373	60026
10°	60599	60096	60581	60096	60599
15°	60495	60887	61553	60887	60495
20°	59369	60596	61855	60596	59369
25°	57774	58945	60690	58945	57774
30°	54178	55849	57586	55849	54178
35°	48846	50424	51637	50424	48846
40°	39943	41454	42392	41454	39943
45°	24048	29938	26508	29938	24048
50°	9367	16631	10482	16631	9367
55°	5025	7537	5084	7537	5025
60°	2183	3726	2386	3726	2183
65°	2059	2279	2139	2279	2059
70°	1945	2146	2096	2146	1945
75°	1847	2049	2040	2049	1847
80°	1767	1976	1962	1976	1767
85°	1760	1778	1760	1778	1760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 30150 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.0	3.6
10°-20°	1028.8	10.4
20°-30°	1520.9	15.4
30°-40°	1571.5	16.0
40°-50°	945.6	9.6
50°-60°	227.0	2.3
60°-70°	62.0	0.6
70°-80°	34.6	0.4
80°-90°	16.7	0.2
90°-100°	111.4	1.1
100°-110°	325.4	3.3
110°-120°	530.7	5.4
120°-130°	673.4	6.8
130°-140°	720.5	7.3
140°-150°	672.7	6.8
150°-160°	553.4	5.6
160°-170°	371.2	3.8
170°-180°	131.8	1.3
0°-30°	2901.6	29.5
0°-40°	4473.1	45.4
0°-60°	5645.7	57.3
0°-90°	5759.0	58.5
90°-120°	967.5	9.8
90°-150°	3034.0	30.8
90°-180°	4090.0	41.5
0°-180°	9849.4	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3684	3684	3684	3684	3684	
5°	3704	3663	3698	3663	3704	353
15°	3619	3643	3682	3643	3619	1016
25°	3243	3309	3407	3309	3243	1480
35°	2478	2558	2620	2558	2478	1520
45°	1053	1311	1161	1311	1053	828
55°	178	268	181	268	178	174
65°	54	60	56	60	54	53
75°	30	33	33	33	30	32
85°	10	10	10	10	10	10
90°	30	27	4	39	67	14
95°	33	42	43	144	191	54
105°	339	247	207	370	459	311
115°	552	548	394	587	674	544
125°	864	841	584	734	830	771
135°	1140	1082	795	823	918	873
145°	1315	1268	1019	875	938	822
155°	1430	1392	1209	994	971	659
165°	1488	1451	1336	1167	1120	420
175°	1454	1435	1397	1335	1316	140
180°	1400	1400	1400	1400	1400	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5
2.5°	3686.9	3689.5	3692.1	3681.5	3666.5	3665.4	3678.1	3688.8	3692.9	3697.0	3692.9
5°	3703.6	3704.5	3705.4	3688.4	3665.4	3661.2	3675.7	3688.0	3693.1	3698.3	3693.1
7.5°	3695.3	3699.0	3702.7	3690.3	3672.5	3669.8	3682.2	3692.2	3694.9	3697.7	3694.9
10°	3696.2	3697.6	3699.0	3684.9	3665.7	3665.4	3684.2	3697.9	3696.5	3695.1	3696.5
12.5°	3674.2	3677.9	3681.5	3672.2	3658.6	3664.2	3689.0	3706.0	3699.7	3693.4	3699.7
15°	3619.1	3626.1	3633.1	3634.6	3634.1	3651.0	3685.3	3707.8	3695.1	3682.4	3695.1
17.5°	3528.0	3536.9	3545.8	3557.7	3570.6	3599.2	3643.6	3673.1	3657.7	3642.3	3657.7
20°	3455.3	3464.2	3473.2	3489.8	3509.1	3544.3	3595.5	3630.1	3615.1	3600.0	3615.1
22.5°	3376.7	3384.1	3391.6	3408.1	3427.8	3466.0	3522.8	3561.9	3548.0	3534.1	3548.0
25°	3243.0	3247.2	3251.4	3268.0	3288.7	3328.8	3388.4	3430.2	3418.5	3406.7	3418.5
27.5°	3061.5	3068.7	3076.0	3092.9	3113.1	3150.5	3205.2	3244.9	3239.9	3235.0	3239.9
30°	2906.0	2919.6	2933.3	2954.6	2978.6	3012.6	3056.7	3089.7	3089.2	3088.8	3089.2
32.5°	2742.9	2759.9	2776.9	2799.1	2823.1	2852.0	2886.0	2912.3	2915.6	2918.9	2915.6
35°	2478.2	2491.8	2505.4	2525.0	2546.6	2569.9	2594.8	2614.1	2616.9	2619.8	2616.9
37.5°	2141.0	2154.7	2168.4	2185.8	2204.4	2225.6	2249.3	2267.3	2267.7	2268.2	2267.7
40°	1895.1	1903.5	1912.0	1931.7	1955.2	1978.4	2001.4	2017.9	2014.6	2011.3	2014.6
42.5°	1643.3	1648.7	1654.2	1674.8	1700.5	1723.4	1743.4	1752.3	1728.0	1703.7	1728.0
45°	1053.2	1141.0	1228.8	1273.3	1303.3	1319.0	1320.4	1303.7	1232.3	1160.9	1232.3
47.5°	545.3	631.3	717.3	808.8	902.1	924.0	874.4	818.0	741.0	664.0	741.0
50°	372.9	406.7	440.5	535.6	651.1	673.1	601.8	533.7	475.5	417.3	475.5
52.5°	278.2	294.8	311.3	385.1	478.1	488.2	415.3	353.5	325.0	296.4	325.0
55°	178.5	185.6	192.6	225.4	266.7	268.8	231.7	201.3	191.0	180.6	191.0
57.5°	109.9	119.1	128.3	142.5	158.5	158.6	143.0	128.8	119.1	109.4	119.1
60°	67.6	76.1	84.5	98.6	114.6	116.2	103.5	91.8	82.9	73.9	82.9
62.5°	60.8	64.0	67.2	77.5	90.0	91.1	80.7	72.1	68.8	65.5	68.8
65°	53.9	54.8	55.8	57.4	59.3	60.0	59.5	58.8	57.4	56.0	57.4
67.5°	46.3	47.7	49.1	49.8	50.3	50.7	51.2	51.3	50.4	49.4	50.4
70°	41.2	42.6	44.0	44.7	45.2	45.7	46.1	46.2	45.3	44.4	45.3
72.5°	37.0	38.0	39.0	39.6	40.1	40.6	41.1	41.2	40.2	39.3	40.2
75°	29.6	30.5	31.5	32.0	32.5	33.2	34.2	34.6	33.7	32.7	33.7
77.5°	23.2	24.2	25.1	25.6	26.0	26.4	26.9	27.0	26.2	25.4	26.2
80°	19.0	20.0	20.9	21.1	21.1	21.4	21.8	22.1	21.6	21.1	21.6
82.5°	14.8	15.4	15.9	16.1	16.1	16.3	16.8	17.1	17.0	16.9	17.0
85°	9.5	9.5	9.5	9.5	9.5	9.7	10.2	10.4	10.0	9.5	10.0
87.5°	8.5	9.0	9.4	8.9	8.9	8.7	7.8	7.0	5.5	4.2	5.3
90°	29.6	30.6	30.6	27.5	27.5	26.4	22.2	18.0	10.6	4.2	9.5
92.5°	36.4	35.7	35.7	34.2	32.6	29.8	24.7	23.9	25.8	16.1	27.3
95°	32.8	32.8	31.7	31.7	37.0	46.5	68.7	75.0	48.6	43.3	62.4
97.5°	75.0	79.9	89.0	102.7	126.2	134.6	124.5	93.8	88.8	85.6	113.9
100°	142.7	154.3	165.9	179.7	208.2	170.1	132.1	126.8	118.4	119.4	151.1
102.5°	249.2	249.8	254.7	260.0	204.8	181.1	175.2	168.2	154.7	154.9	187.5
105°	339.2	317.0	276.9	249.4	245.2	249.4	249.4	233.6	206.1	207.1	241.0
107.5°	327.4	324.9	326.6	327.6	334.4	335.9	326.8	298.2	269.9	264.0	298.2
110°	385.7	385.7	390.0	391.0	399.5	394.2	382.6	345.6	309.6	301.2	332.9

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	449.1	450.0	451.7	457.0	461.2	453.4	435.0	394.6	353.6	336.7	367.6
115°	551.7	550.6	550.6	554.8	552.7	544.3	516.8	470.3	417.4	394.2	420.6
117.5°	649.1	643.8	645.1	643.4	646.6	629.7	597.3	540.5	483.8	451.5	470.9
120°	713.4	708.1	710.2	710.2	709.1	688.0	648.9	592.9	529.5	490.4	503.0
122.5°	775.9	772.3	772.7	770.2	767.5	747.2	701.3	642.8	573.4	525.0	532.6
125°	864.5	866.6	860.3	860.3	850.7	830.7	782.0	719.7	644.7	584.4	580.2
127.5°	948.2	951.1	944.8	941.0	933.6	903.4	859.0	796.4	715.9	645.1	628.2
130°	1004.0	1006.1	1004.0	993.4	981.8	953.3	908.9	849.7	764.1	689.0	659.5
132.5°	1059.8	1064.4	1053.9	1045.8	1028.3	998.9	955.4	897.9	812.3	730.5	693.3
135°	1140.3	1137.1	1126.6	1113.9	1095.9	1067.4	1027.2	967.0	885.6	794.7	747.2
137.5°	1199.9	1200.3	1190.0	1176.0	1157.6	1131.0	1093.0	1036.3	953.5	864.5	803.4
140°	1239.6	1237.5	1228.0	1213.2	1197.4	1169.9	1136.1	1081.1	996.6	911.0	842.3
142.5°	1267.5	1269.7	1261.8	1249.6	1231.2	1207.1	1172.4	1117.5	1043.1	954.1	882.0
145°	1314.7	1314.7	1307.3	1298.8	1281.9	1254.4	1228.0	1174.1	1103.3	1018.8	939.5
147.5°	1353.2	1353.8	1349.1	1339.2	1322.7	1299.0	1272.4	1224.2	1158.5	1080.3	1003.3
150°	1376.0	1379.2	1372.8	1365.4	1350.6	1325.3	1302.0	1255.5	1193.1	1123.4	1043.1
152.5°	1398.0	1402.0	1396.5	1387.4	1372.6	1347.2	1327.4	1281.7	1223.6	1158.9	1082.0
155°	1429.9	1433.0	1428.8	1420.4	1403.5	1380.2	1362.2	1320.0	1268.2	1209.0	1140.3
157.5°	1453.6	1458.6	1452.5	1444.9	1426.7	1406.2	1389.3	1350.0	1303.7	1254.2	1192.9
160°	1467.9	1472.2	1466.9	1458.4	1439.4	1421.4	1404.5	1368.6	1327.4	1278.8	1225.9
162.5°	1477.2	1484.0	1477.9	1468.6	1448.7	1431.6	1417.2	1383.0	1345.1	1304.1	1255.5
165°	1488.0	1493.3	1488.0	1478.5	1458.4	1443.6	1432.0	1402.4	1369.6	1335.8	1294.6
167.5°	1488.0	1494.6	1489.5	1481.2	1460.1	1448.7	1439.8	1415.1	1387.8	1359.7	1329.1
170°	1483.8	1491.2	1486.9	1479.5	1458.4	1447.8	1441.5	1419.3	1397.1	1374.9	1348.5
172.5°	1476.2	1483.6	1478.5	1471.9	1450.8	1443.6	1439.8	1421.8	1403.0	1385.1	1363.7
175°	1454.2	1463.7	1460.5	1453.1	1437.3	1432.0	1433.0	1420.4	1407.7	1397.1	1383.4
177.5°	1424.8	1431.6	1428.2	1426.5	1413.8	1412.1	1418.0	1412.1	1406.2	1402.0	1396.1
180°	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5
2.5°	3688.8	3678.1	3665.4	3666.5	3681.5	3692.1	3689.5	3686.9
5°	3688.0	3675.7	3661.2	3665.4	3688.4	3705.4	3704.5	3703.6
7.5°	3692.2	3682.2	3669.8	3672.5	3690.3	3702.7	3699.0	3695.3
10°	3697.9	3684.2	3665.4	3665.7	3684.9	3699.0	3697.6	3696.2
12.5°	3706.0	3689.0	3664.2	3658.6	3672.2	3681.5	3677.9	3674.2
15°	3707.8	3685.3	3651.0	3634.1	3634.6	3633.1	3626.1	3619.1
17.5°	3673.1	3643.6	3599.2	3570.6	3557.7	3545.8	3536.9	3528.0
20°	3630.1	3595.5	3544.3	3509.1	3489.8	3473.2	3464.2	3455.3
22.5°	3561.9	3522.8	3466.0	3427.8	3408.1	3391.6	3384.1	3376.7
25°	3430.2	3388.4	3328.8	3288.7	3268.0	3251.4	3247.2	3243.0
27.5°	3244.9	3205.2	3150.5	3113.1	3092.9	3076.0	3068.7	3061.5
30°	3089.7	3056.7	3012.6	2978.6	2954.6	2933.3	2919.6	2906.0
32.5°	2912.3	2886.0	2852.0	2823.1	2799.1	2776.9	2759.9	2742.9
35°	2614.1	2594.8	2569.9	2546.6	2525.0	2505.4	2491.8	2478.2
37.5°	2267.3	2249.3	2225.6	2204.4	2185.8	2168.4	2154.7	2141.0
40°	2017.9	2001.4	1978.4	1955.2	1931.7	1912.0	1903.5	1895.1
42.5°	1752.3	1743.4	1723.4	1700.5	1674.8	1654.2	1648.7	1643.3
45°	1303.7	1320.4	1319.0	1303.3	1273.3	1228.8	1141.0	1053.2
47.5°	818.0	874.4	924.0	902.1	808.8	717.3	631.3	545.3
50°	533.7	601.8	673.1	651.1	535.6	440.5	406.7	372.9
52.5°	353.5	415.3	488.2	478.1	385.1	311.3	294.8	278.2
55°	201.3	231.7	268.8	266.7	225.4	192.6	185.6	178.5
57.5°	128.8	143.0	158.6	158.5	142.5	128.3	119.1	109.9
60°	91.8	103.5	116.2	114.6	98.6	84.5	76.1	67.6
62.5°	72.1	80.7	91.1	90.0	77.5	67.2	64.0	60.8
65°	58.8	59.5	60.0	59.3	57.4	55.8	54.8	53.9
67.5°	51.3	51.2	50.7	50.3	49.8	49.1	47.7	46.3
70°	46.2	46.1	45.7	45.2	44.7	44.0	42.6	41.2
72.5°	41.2	41.1	40.6	40.1	39.6	39.0	38.0	37.0
75°	34.6	34.2	33.2	32.5	32.0	31.5	30.5	29.6
77.5°	27.0	26.9	26.4	26.0	25.6	25.1	24.2	23.2
80°	22.1	21.8	21.4	21.1	21.1	20.9	20.0	19.0
82.5°	17.1	16.8	16.3	16.1	16.1	15.9	15.4	14.8
85°	10.4	10.2	9.7	9.5	9.5	9.5	9.5	9.5
87.5°	6.8	8.2	9.9	12.3	13.9	15.1	15.4	15.9
90°	16.9	24.3	32.8	44.4	52.8	59.2	62.4	66.6
92.5°	38.9	53.9	65.7	79.9	95.1	103.1	108.0	109.7
95°	89.8	108.9	133.2	154.3	173.3	186.0	193.4	191.3
97.5°	139.3	174.8	202.5	227.0	249.2	264.4	276.5	275.4
100°	180.7	210.3	247.3	276.9	299.1	316.0	329.7	332.9
102.5°	222.1	250.0	290.4	323.4	349.0	367.6	377.9	387.9
105°	280.1	319.2	349.8	390.0	416.4	440.7	448.1	458.7
107.5°	340.7	383.6	417.7	451.1	482.3	502.6	518.5	526.9
110°	380.5	421.7	465.0	496.7	526.3	547.4	563.3	571.7

TEST NUMBER: P709384

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	416.0	461.4	508.1	543.2	570.3	594.8	608.1	617.4
115°	468.2	517.8	564.3	609.8	636.2	655.2	666.9	674.3
117.5°	515.9	567.7	613.0	658.8	691.8	705.7	710.2	715.7
120°	546.4	598.2	642.5	685.9	723.9	738.7	748.2	754.6
122.5°	573.4	625.2	672.1	712.9	749.3	770.0	781.2	789.2
125°	615.1	663.7	712.3	755.6	785.2	807.4	822.2	829.6
127.5°	650.2	696.9	746.7	788.4	820.3	843.8	856.0	861.7
130°	676.4	715.5	766.2	809.5	842.3	866.6	877.2	880.3
132.5°	701.7	733.2	781.4	827.3	860.0	881.8	893.2	896.4
135°	740.8	758.8	801.1	845.5	879.3	901.5	912.0	918.4
137.5°	783.9	788.6	814.8	858.3	893.2	914.6	925.1	928.9
140°	812.7	810.6	827.5	863.4	898.3	920.5	931.1	933.2
142.5°	843.1	834.3	840.2	869.3	900.8	922.2	933.6	936.6
145°	894.1	875.0	867.6	882.4	905.7	923.7	936.3	938.5
147.5°	948.8	918.2	901.5	904.2	916.9	929.6	939.5	939.7
150°	986.0	951.1	926.8	923.7	927.9	936.3	943.7	944.8
152.5°	1021.5	984.1	954.7	946.5	944.0	949.0	952.2	952.4
155°	1081.1	1041.0	1002.9	985.0	977.6	975.4	974.4	971.2
157.5°	1137.6	1094.9	1052.8	1033.4	1021.5	1015.0	1010.1	1006.7
160°	1173.1	1128.7	1087.5	1066.3	1053.6	1046.3	1038.9	1034.6
162.5°	1209.4	1167.6	1125.5	1101.0	1088.3	1080.1	1071.8	1065.1
165°	1257.6	1222.7	1180.5	1154.0	1138.2	1132.9	1125.5	1120.2
167.5°	1299.9	1272.8	1235.0	1210.1	1198.0	1188.3	1180.9	1171.4
170°	1325.3	1304.1	1267.1	1243.9	1238.6	1228.0	1220.6	1211.1
172.5°	1345.5	1328.6	1299.3	1280.2	1275.8	1269.5	1263.7	1255.9
175°	1372.8	1364.4	1342.2	1328.4	1328.4	1326.3	1325.3	1315.7
177.5°	1391.8	1387.6	1374.9	1368.2	1374.1	1375.8	1371.5	1363.9
180°	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3	1400.3

(END OF REPORT)