

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: P709298

Luminaire Tested: DL2W-BB-M-100U-125D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709298
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-4, G3-2104-222-4)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-BB-M-100U-125D-930-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: 8520.6 lumens
Efficiency: N/A
Efficacy: 102.8 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

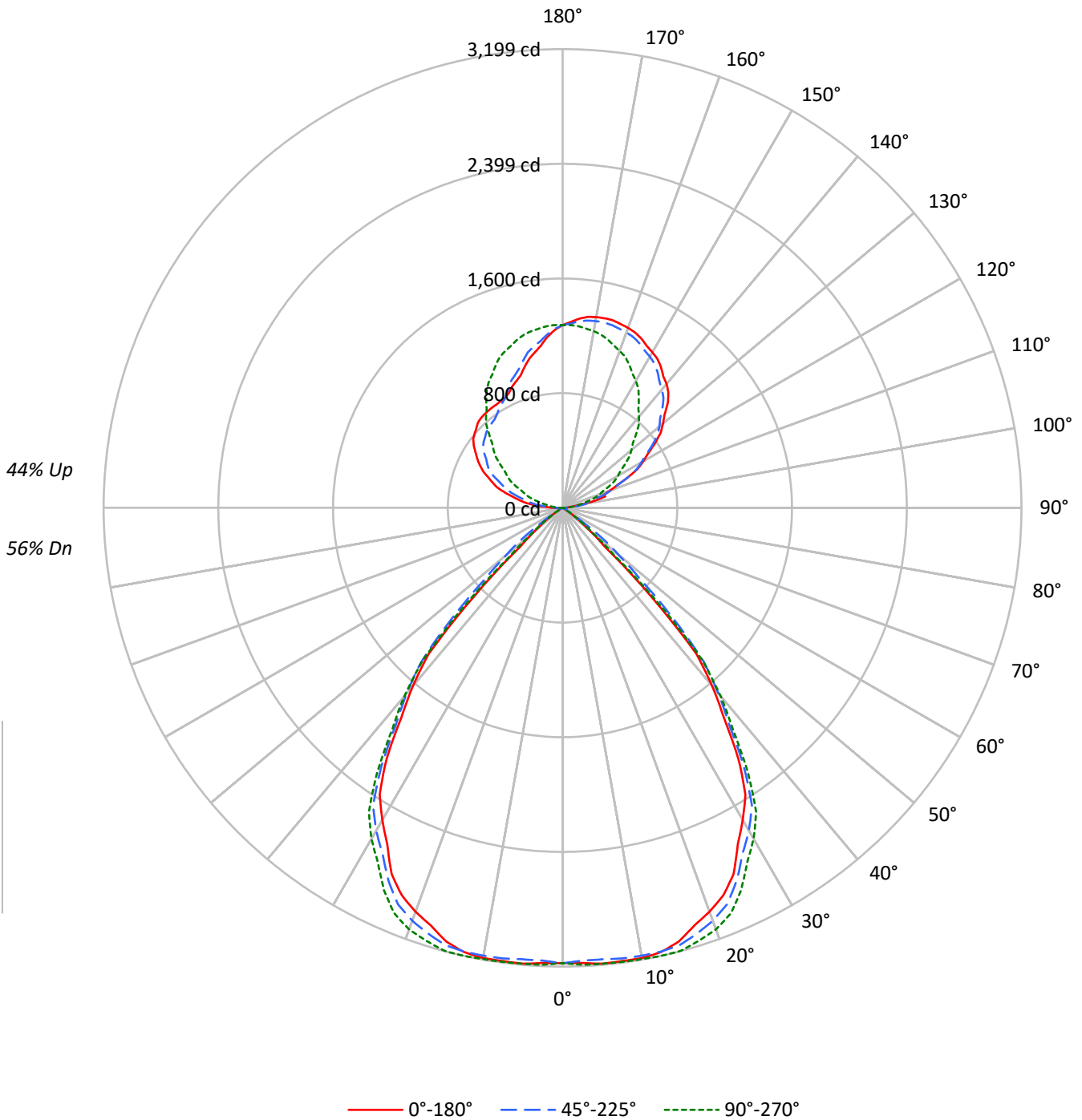
Input Watts (W): 82.9
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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CATALOG NUMBER: DL2W-BB-M-100U-125D-930-UNV-STD-W-WM-4

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	109	109	109	109	101	101	101	101	87	87	87	74	74	74	62	62	62	56				
1	101	98	95	92	94	91	89	86	79	78	76	68	67	66	58	57	57	52				
2	94	88	83	79	88	83	78	75	72	69	67	63	61	59	54	53	51	47				
3	88	80	74	69	82	75	70	65	66	62	59	58	55	53	50	48	47	43				
4	81	72	66	61	76	68	62	58	60	56	52	53	50	47	46	44	42	39				
5	76	66	59	54	71	62	56	51	55	51	47	49	45	43	43	41	38	36				
6	71	60	53	48	66	57	51	46	51	46	42	45	42	39	40	37	35	33				
7	66	55	48	43	62	52	46	41	47	42	38	42	38	35	37	34	32	30				
8	62	51	44	39	58	48	42	38	43	38	35	39	35	32	35	32	29	27				
9	58	47	40	35	54	44	38	34	40	35	32	36	32	29	32	29	27	25				
10	54	43	37	32	51	41	35	31	37	32	29	34	30	27	30	27	25	23				

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	51258	51258	51258	51258	51258
5°	51718	51217	51718	51217	51718
10°	52269	51992	52378	51992	52269
15°	52329	52763	53434	52763	52329
20°	51483	52636	53740	52636	51483
25°	50219	51137	52438	51137	50219
30°	46831	48439	49657	48439	46831
35°	42157	43412	44408	43412	42157
40°	34185	35593	36166	35593	34185
45°	19886	24884	22076	24884	19886
50°	6335	12843	7204	12843	6335
55°	2539	4473	2457	4473	2539
60°	61	1229	187	1229	61
65°	0	65	38	65	0
70°	0	40	0	40	0
75°	0	0	0	0	0
80°	0	0	0	0	0
85°	0	0	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 25083 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	303.8	3.6
10°-20°	892.1	10.5
20°-30°	1318.5	15.5
30°-40°	1355.0	15.9
40°-50°	782.6	9.2
50°-60°	135.4	1.6
60°-70°	5.1	0.1
70°-80°	0.1	0.0
80°-90°	6.8	0.1
90°-100°	101.4	1.2
100°-110°	296.2	3.5
110°-120°	483.0	5.7
120°-130°	612.9	7.2
130°-140°	655.7	7.7
140°-150°	612.2	7.2
150°-160°	503.7	5.9
160°-170°	337.8	4.0
170°-180°	120.0	1.4
0°-30°	2514.5	29.5
0°-40°	3869.5	45.4
0°-60°	4787.5	56.2
0°-90°	4799.4	56.3
90°-120°	880.5	10.3
90°-150°	2761.2	32.4
90°-180°	3723.0	43.7
0°-180°	8520.6	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3175	3175	3175	3175	3175	
5°	3191	3160	3191	3160	3191	304
15°	3131	3157	3197	3157	3131	879
25°	2819	2870	2944	2870	2819	1283
35°	2139	2202	2253	2202	2139	1312
45°	871	1090	967	1090	871	677
55°	90	159	87	159	90	92
65°	0	2	1	2	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	2
90°	27	24	4	35	61	13
95°	30	38	39	131	174	49
105°	309	225	188	337	417	283
115°	502	499	359	534	614	495
125°	787	765	532	668	755	701
135°	1038	984	723	749	836	794
145°	1196	1154	927	796	854	748
155°	1301	1267	1100	905	884	599
165°	1354	1321	1216	1062	1020	382
175°	1323	1306	1272	1215	1197	127
180°	1274	1274	1274	1274	1274	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7
2.5°	3177.0	3180.1	3183.1	3174.2	3161.2	3160.4	3171.6	3181.1	3185.2	3189.3	3185.2
5°	3191.0	3194.0	3197.0	3182.4	3161.9	3158.3	3171.5	3182.5	3186.7	3191.0	3186.7
7.5°	3188.1	3192.9	3197.7	3186.8	3170.7	3168.3	3179.6	3188.8	3191.4	3194.1	3191.4
10°	3188.1	3191.5	3194.9	3185.2	3171.2	3171.2	3185.2	3195.7	3195.3	3194.8	3195.3
12.5°	3173.5	3179.3	3185.1	3178.1	3166.7	3171.7	3192.9	3207.8	3203.6	3199.4	3203.6
15°	3130.6	3140.8	3151.0	3151.7	3149.1	3164.0	3196.4	3218.1	3207.4	3196.7	3207.4
17.5°	3054.6	3067.4	3080.2	3090.7	3100.5	3126.2	3167.8	3195.2	3179.9	3164.5	3179.9
20°	2996.3	3009.1	3021.9	3035.0	3048.2	3078.7	3126.4	3158.4	3143.0	3127.7	3143.0
22.5°	2925.7	2937.5	2949.2	2963.1	2977.7	3010.5	3061.7	3095.9	3079.2	3062.5	3079.2
25°	2818.9	2823.5	2828.2	2840.3	2854.8	2886.1	2934.3	2967.4	2955.5	2943.5	2955.5
27.5°	2645.4	2656.4	2667.4	2684.4	2703.5	2731.6	2768.7	2795.5	2791.3	2787.0	2791.3
30°	2511.9	2527.7	2543.5	2563.7	2585.5	2610.8	2639.8	2661.8	2662.6	2663.5	2662.6
32.5°	2372.3	2388.4	2404.5	2423.8	2444.2	2469.1	2498.4	2519.3	2515.0	2510.8	2515.0
35°	2138.8	2151.2	2163.6	2177.8	2192.8	2212.2	2236.0	2253.8	2253.4	2253.0	2253.4
37.5°	1849.0	1856.0	1863.0	1879.9	1900.2	1918.6	1935.1	1947.9	1950.1	1952.2	1950.1
40°	1621.9	1629.5	1637.2	1656.4	1679.4	1698.0	1712.0	1721.8	1718.8	1715.9	1718.8
42.5°	1380.9	1390.3	1399.7	1422.4	1449.5	1468.2	1478.5	1481.3	1461.6	1441.9	1461.6
45°	870.9	946.3	1021.8	1058.9	1083.2	1096.4	1098.5	1085.3	1026.0	966.8	1026.0
47.5°	397.3	485.8	574.4	649.7	720.6	735.0	693.1	643.1	568.9	494.7	568.9
50°	252.2	277.4	302.5	391.6	502.0	520.6	447.3	380.6	333.7	286.8	333.7
52.5°	167.8	182.4	197.0	265.8	352.7	359.6	286.6	226.3	204.0	181.7	204.0
55°	90.2	94.4	98.7	125.0	158.7	159.1	126.3	100.1	93.7	87.3	93.7
57.5°	34.1	40.6	47.1	58.4	71.4	71.2	57.8	46.0	38.9	31.8	38.9
60°	1.9	7.0	12.1	23.7	37.3	38.8	28.1	18.5	12.1	5.8	12.1
62.5°	1.2	2.2	3.2	10.9	20.8	21.2	12.3	5.2	3.5	1.9	3.5
65°	0.0	0.4	0.9	1.3	1.7	1.7	1.3	1.0	1.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	0.9	0.4	0.0	0.4
70°	0.0	0.0	0.0	0.3	0.7	1.0	1.0	0.9	0.4	0.0	0.4
72.5°	0.0	0.0	0.0	0.1	0.1	0.2	0.2	0.2	0.1	0.0	0.1
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	5.4	5.6	5.6	5.0	5.0	4.8	4.0	3.3	1.9	0.8	1.7
90°	26.9	27.9	27.9	25.0	25.0	24.0	20.2	16.4	9.6	3.8	8.7
92.5°	33.1	32.5	32.5	31.2	29.6	27.1	22.5	21.7	23.5	14.6	24.8
95°	29.8	29.8	28.9	28.9	33.7	42.3	62.5	68.3	44.2	39.4	56.7
97.5°	68.3	72.7	81.0	93.5	114.8	122.5	113.3	85.4	80.8	77.9	103.7
100°	129.8	140.4	151.0	163.5	189.5	154.8	120.2	115.4	107.7	108.7	137.5
102.5°	226.8	227.4	231.8	236.6	186.4	164.9	159.5	153.1	140.8	141.0	170.6
105°	308.7	288.5	252.0	227.0	223.1	227.0	227.0	212.6	187.6	188.5	219.3
107.5°	298.0	295.7	297.2	298.2	304.3	305.7	297.4	271.4	245.6	240.3	271.4
110°	351.1	351.1	354.9	355.9	363.6	358.8	348.2	314.5	281.8	274.1	303.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	408.8	409.5	411.1	415.9	419.7	412.6	395.9	359.1	321.8	306.4	334.5
115°	502.1	501.1	501.1	504.9	503.0	495.3	470.3	428.0	379.9	358.8	382.8
117.5°	590.7	585.9	587.1	585.5	588.4	573.0	543.6	491.9	440.3	410.9	428.6
120°	649.2	644.4	646.3	646.3	645.4	626.1	590.5	539.6	481.9	446.3	457.8
122.5°	706.2	702.9	703.3	701.0	698.5	680.0	638.2	585.0	521.9	477.8	484.7
125°	786.8	788.7	782.9	782.9	774.2	756.0	711.7	655.0	586.7	531.9	528.0
127.5°	862.9	865.6	859.8	856.4	849.7	822.1	781.7	724.8	651.5	587.1	571.7
130°	913.7	915.6	913.7	904.1	893.5	867.5	827.1	773.3	695.4	627.1	600.2
132.5°	964.5	968.7	959.1	951.8	935.8	909.1	869.5	817.1	739.2	664.8	630.9
135°	1037.8	1034.9	1025.3	1013.7	997.4	971.4	934.9	880.0	806.0	723.3	680.0
137.5°	1092.0	1092.4	1083.0	1070.3	1053.6	1029.3	994.7	943.1	867.7	786.8	731.2
140°	1128.2	1126.3	1117.6	1104.1	1089.7	1064.7	1033.9	983.9	907.0	829.1	766.6
142.5°	1153.6	1155.5	1148.4	1137.2	1120.5	1098.6	1067.0	1017.0	949.3	868.3	802.7
145°	1196.5	1196.5	1189.7	1182.1	1166.7	1141.7	1117.6	1068.6	1004.1	927.2	855.0
147.5°	1231.5	1232.1	1227.8	1218.8	1203.8	1182.2	1158.0	1114.1	1054.3	983.2	913.1
150°	1252.3	1255.1	1249.4	1242.6	1229.2	1206.1	1184.9	1142.6	1085.9	1022.4	949.3
152.5°	1272.3	1275.9	1270.9	1262.6	1249.2	1226.1	1208.0	1166.5	1113.6	1054.7	984.7
155°	1301.3	1304.2	1300.4	1292.7	1277.3	1256.1	1239.8	1201.3	1154.2	1100.3	1037.8
157.5°	1322.9	1327.5	1321.9	1315.0	1298.4	1279.8	1264.4	1228.6	1186.5	1141.5	1085.7
160°	1335.9	1339.8	1335.0	1327.3	1310.0	1293.6	1278.2	1245.5	1208.0	1163.8	1115.7
162.5°	1344.4	1350.6	1345.0	1336.5	1318.4	1302.9	1289.8	1258.6	1224.2	1186.9	1142.6
165°	1354.2	1359.0	1354.2	1345.6	1327.3	1313.8	1303.2	1276.3	1246.5	1215.7	1178.2
167.5°	1354.2	1360.2	1355.6	1348.1	1328.8	1318.4	1310.4	1287.8	1263.0	1237.4	1209.6
170°	1350.4	1357.1	1353.3	1346.5	1327.3	1317.7	1311.9	1291.7	1271.5	1251.3	1227.3
172.5°	1343.4	1350.2	1345.6	1339.6	1320.4	1313.8	1310.4	1294.0	1276.9	1260.5	1241.1
175°	1323.4	1332.1	1329.2	1322.5	1308.0	1303.2	1304.2	1292.7	1281.1	1271.5	1259.0
177.5°	1296.7	1302.9	1299.8	1298.2	1286.7	1285.2	1290.5	1285.2	1279.8	1275.9	1270.5
180°	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4

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CATALOG NUMBER: DL2W-BB-M-100U-125D-930-UNV-STD-W-WM-4

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7	3174.7
2.5°	3181.1	3171.6	3160.4	3161.2	3174.2	3183.1	3180.1	3177.0
5°	3182.5	3171.5	3158.3	3161.9	3182.4	3197.0	3194.0	3191.0
7.5°	3188.8	3179.6	3168.3	3170.7	3186.8	3197.7	3192.9	3188.1
10°	3195.7	3185.2	3171.2	3171.2	3185.2	3194.9	3191.5	3188.1
12.5°	3207.8	3192.9	3171.7	3166.7	3178.1	3185.1	3179.3	3173.5
15°	3218.1	3196.4	3164.0	3149.1	3151.7	3151.0	3140.8	3130.6
17.5°	3195.2	3167.8	3126.2	3100.5	3090.7	3080.2	3067.4	3054.6
20°	3158.4	3126.4	3078.7	3048.2	3035.0	3021.9	3009.1	2996.3
22.5°	3095.9	3061.7	3010.5	2977.7	2963.1	2949.2	2937.5	2925.7
25°	2967.4	2934.3	2886.1	2854.8	2840.3	2828.2	2823.5	2818.9
27.5°	2795.5	2768.7	2731.6	2703.5	2684.4	2667.4	2656.4	2645.4
30°	2661.8	2639.8	2610.8	2585.5	2563.7	2543.5	2527.7	2511.9
32.5°	2519.3	2498.4	2469.1	2444.2	2423.8	2404.5	2388.4	2372.3
35°	2253.8	2236.0	2212.2	2192.8	2177.8	2163.6	2151.2	2138.8
37.5°	1947.9	1935.1	1918.6	1900.2	1879.9	1863.0	1856.0	1849.0
40°	1721.8	1712.0	1698.0	1679.4	1656.4	1637.2	1629.5	1621.9
42.5°	1481.3	1478.5	1468.2	1449.5	1422.4	1399.7	1390.3	1380.9
45°	1085.3	1098.5	1096.4	1083.2	1058.9	1021.8	946.3	870.9
47.5°	643.1	693.1	735.0	720.6	649.7	574.4	485.8	397.3
50°	380.6	447.3	520.6	502.0	391.6	302.5	277.4	252.2
52.5°	226.3	286.6	359.6	352.7	265.8	197.0	182.4	167.8
55°	100.1	126.3	159.1	158.7	125.0	98.7	94.4	90.2
57.5°	46.0	57.8	71.2	71.4	58.4	47.1	40.6	34.1
60°	18.5	28.1	38.8	37.3	23.7	12.1	7.0	1.9
62.5°	5.2	12.3	21.2	20.8	10.9	3.2	2.2	1.2
65°	1.0	1.3	1.7	1.7	1.3	0.9	0.4	0.0
67.5°	0.9	1.0	1.0	0.7	0.3	0.0	0.0	0.0
70°	0.9	1.0	1.0	0.7	0.3	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.1	0.1	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	3.1	4.4	6.0	8.1	9.6	10.8	11.3	12.1
90°	15.4	22.1	29.8	40.4	48.1	53.9	56.7	60.6
92.5°	35.4	49.1	59.8	72.7	86.6	93.9	98.3	99.8
95°	81.8	99.1	121.2	140.4	157.7	169.3	176.0	174.1
97.5°	126.8	159.1	184.3	206.6	226.8	240.6	251.6	250.6
100°	164.5	191.4	225.1	252.0	272.2	287.6	300.1	303.0
102.5°	202.2	227.6	264.3	294.3	317.6	334.5	343.9	353.0
105°	254.9	290.5	318.4	354.9	378.9	401.1	407.8	417.4
107.5°	310.1	349.1	380.1	410.5	439.0	457.4	471.9	479.6
110°	346.2	383.8	423.2	452.0	479.0	498.2	512.6	520.3

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	378.6	419.9	462.4	494.4	519.0	541.3	553.4	561.9
115°	426.1	471.3	513.6	555.0	579.0	596.3	606.9	613.6
117.5°	469.5	516.7	557.8	599.6	629.6	642.3	646.3	651.3
120°	497.2	544.4	584.8	624.2	658.8	672.3	681.0	686.7
122.5°	521.9	569.0	611.7	648.8	681.9	700.8	711.0	718.3
125°	559.8	604.0	648.3	687.7	714.6	734.8	748.3	755.0
127.5°	591.7	634.2	679.6	717.5	746.5	767.9	779.1	784.3
130°	615.6	651.1	697.3	736.7	766.6	788.7	798.3	801.2
132.5°	638.6	667.3	711.2	752.9	782.7	802.5	812.9	815.8
135°	674.2	690.6	729.0	769.4	800.2	820.4	830.0	835.8
137.5°	713.5	717.7	741.5	781.2	812.9	832.3	842.0	845.4
140°	739.6	737.7	753.1	785.8	817.5	837.7	847.3	849.3
142.5°	767.3	759.2	764.6	791.2	819.8	839.3	849.7	852.3
145°	813.7	796.4	789.6	803.1	824.3	840.6	852.2	854.1
147.5°	863.5	835.6	820.4	822.9	834.5	846.0	855.0	855.2
150°	897.4	865.6	843.5	840.6	844.5	852.2	858.9	859.8
152.5°	929.7	895.6	868.9	861.4	859.1	863.7	866.6	866.8
155°	983.9	947.4	912.7	896.4	889.7	887.7	886.8	883.9
157.5°	1035.3	996.4	958.1	940.4	929.7	923.7	919.3	916.2
160°	1067.6	1027.2	989.7	970.5	958.9	952.2	945.4	941.6
162.5°	1100.7	1062.6	1024.3	1002.0	990.5	983.0	975.5	969.3
165°	1144.5	1112.8	1074.3	1050.3	1035.9	1031.0	1024.3	1019.5
167.5°	1183.0	1158.4	1124.0	1101.3	1090.3	1081.4	1074.7	1066.1
170°	1206.1	1186.9	1153.2	1132.0	1127.2	1117.6	1110.9	1102.2
172.5°	1224.6	1209.2	1182.4	1165.1	1161.1	1155.3	1150.1	1143.0
175°	1249.4	1241.7	1221.5	1209.0	1209.0	1207.1	1206.1	1197.4
177.5°	1266.7	1262.8	1251.3	1245.1	1250.5	1252.1	1248.2	1241.3
180°	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4	1274.4

(END OF REPORT)