

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: P709358

Luminaire Tested: DL2W-WB-M-075U-125D-930-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709358
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-3, 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-075U-125D-930-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

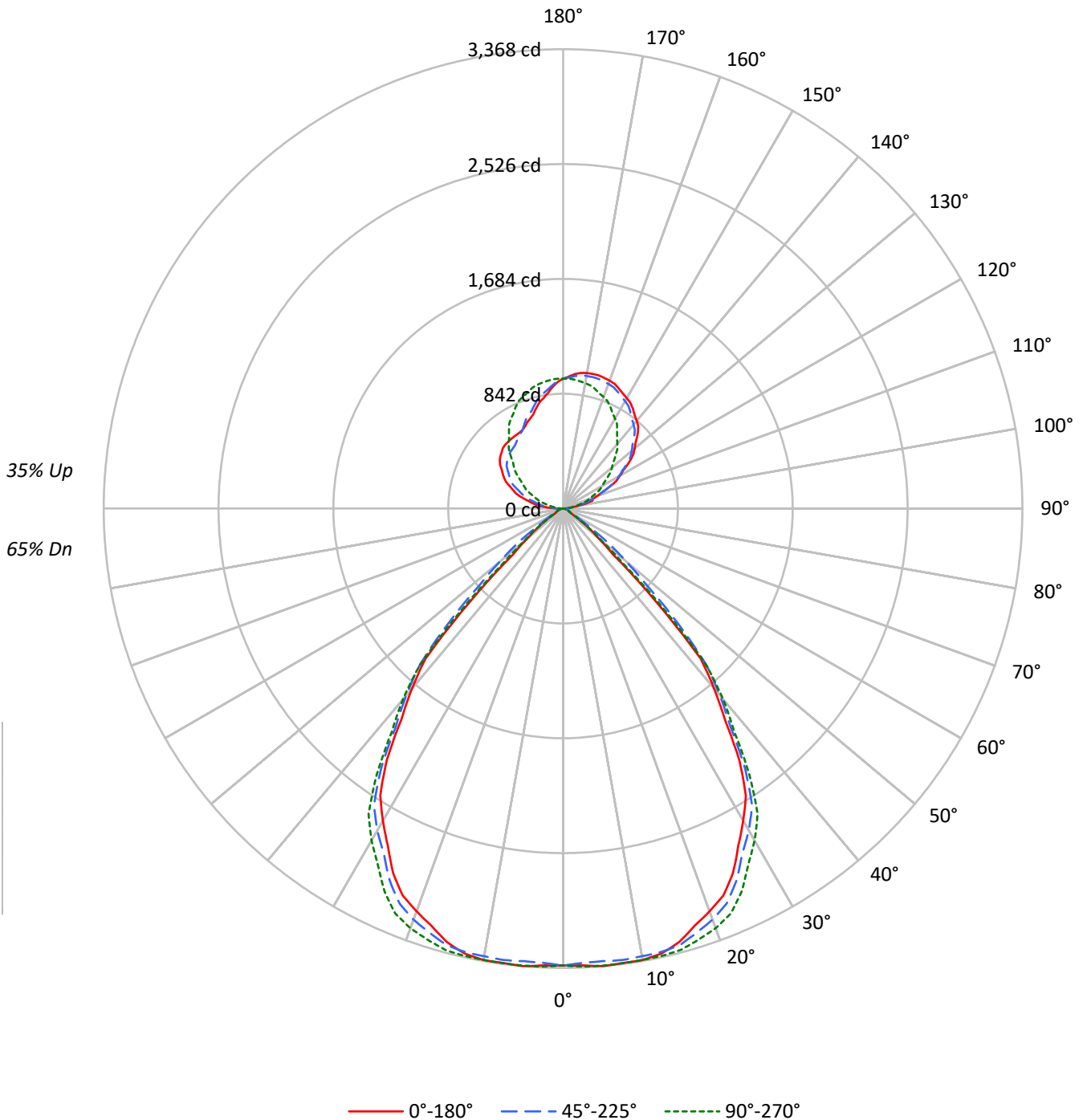
Lumens per Lamp: N/A
Luminaire Lumens: 8015.3 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.23 / 1.17
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

Input Watts (W): 73.3
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	111	111	111	111	104	104	104	104	92	92	92	81	81	81	70	70	70	65		
1	103	100	97	94	97	94	92	89	84	82	80	74	73	72	66	65	64	60		
2	96	90	85	81	91	86	81	77	77	73	71	68	66	64	61	59	58	54		
3	90	82	76	71	84	78	72	68	70	66	62	63	60	57	56	54	52	49		
4	83	74	67	62	79	71	65	60	64	59	56	58	54	51	52	49	47	44		
5	78	68	61	55	73	64	58	53	59	54	50	53	49	46	48	45	43	40		
6	72	62	55	50	68	59	53	48	54	49	45	49	45	42	45	42	39	37		
7	68	57	50	45	64	54	48	43	50	45	41	46	41	38	42	38	36	34		
8	63	52	45	40	60	50	44	39	46	41	37	42	38	35	39	35	33	31		
9	59	48	41	37	56	46	40	36	43	38	34	39	35	32	36	33	30	28		
10	56	45	38	34	53	43	37	33	40	35	31	37	32	29	34	30	28	26		

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	54077	54077	54077	54077	54077
5°	54579	53986	54501	53986	54579
10°	55100	54644	55085	54644	55100
15°	55005	55362	55968	55362	55005
20°	53983	55098	56244	55098	53983
25°	52533	53597	55184	53597	52533
30°	49264	50781	52361	50781	49264
35°	44415	45849	46952	45849	44415
40°	36320	37693	38545	37693	36320
45°	21866	27223	24103	27223	21866
50°	8518	15123	9530	15123	8518
55°	4569	6853	4622	6853	4569
60°	1986	3389	2170	3389	1986
65°	1872	2071	1945	2071	1872
70°	1770	1950	1902	1950	1770
75°	1678	1865	1859	1865	1678
80°	1609	1795	1785	1795	1609
85°	1593	1621	1593	1621	1593

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 27414 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	320.0	4.0
10°-20°	935.4	11.7
20°-30°	1382.9	17.3
30°-40°	1428.9	17.8
40°-50°	859.8	10.7
50°-60°	206.4	2.6
60°-70°	56.4	0.7
70°-80°	31.4	0.4
80°-90°	13.8	0.2
90°-100°	75.8	0.9
100°-110°	221.0	2.8
110°-120°	360.6	4.5
120°-130°	457.6	5.7
130°-140°	489.7	6.1
140°-150°	457.2	5.7
150°-160°	376.3	4.7
160°-170°	252.3	3.1
170°-180°	89.6	1.1
0°-30°	2638.4	32.9
0°-40°	4067.3	50.7
0°-60°	5133.5	64.0
0°-90°	5235.1	65.3
90°-120°	657.4	8.2
90°-150°	2062.0	25.7
90°-180°	2780.0	34.7
0°-180°	8015.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3349	3349	3349	3349	3349	
5°	3368	3331	3363	3331	3368	321
15°	3291	3312	3348	3312	3291	924
25°	2949	3009	3098	3009	2949	1346
35°	2253	2326	2382	2326	2253	1382
45°	958	1192	1056	1192	958	753
55°	162	243	164	243	162	158
65°	49	54	51	54	49	48
75°	27	30	30	30	27	29
85°	9	9	9	9	9	9
90°	21	19	3	26	41	10
95°	22	29	30	96	130	37
105°	225	169	140	252	310	210
115°	373	374	269	400	460	369
125°	592	572	398	498	564	525
135°	774	737	542	559	624	593
145°	892	862	692	595	638	558
155°	970	946	821	676	662	448
165°	1011	986	908	794	762	285
175°	990	974	949	907	894	95
180°	952	952	952	952	952	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3
2.5°	3352.4	3354.8	3357.2	3347.5	3333.8	3332.8	3344.4	3354.1	3357.8	3361.6	3357.8
5°	3367.5	3368.4	3369.3	3353.8	3332.9	3329.0	3342.3	3353.4	3358.1	3362.7	3358.1
7.5°	3360.1	3363.4	3366.7	3355.4	3339.3	3336.9	3348.1	3357.2	3359.7	3362.2	3359.7
10°	3360.8	3362.1	3363.4	3350.6	3333.1	3332.9	3349.9	3362.4	3361.1	3359.9	3361.1
12.5°	3340.8	3344.2	3347.5	3339.1	3326.7	3331.8	3354.3	3369.8	3364.0	3358.3	3364.0
15°	3290.7	3297.1	3303.5	3304.8	3304.4	3319.7	3350.9	3371.4	3359.9	3348.3	3359.9
17.5°	3207.9	3216.0	3224.1	3234.9	3246.6	3272.7	3313.1	3339.8	3325.8	3311.8	3325.8
20°	3141.8	3149.9	3158.1	3173.2	3190.7	3222.7	3269.3	3300.7	3287.1	3273.4	3287.1
22.5°	3070.4	3077.1	3083.9	3098.9	3116.8	3151.5	3203.2	3238.8	3226.1	3213.5	3226.1
25°	2948.8	2952.6	2956.5	2971.5	2990.3	3026.8	3081.0	3119.0	3108.3	3097.6	3108.3
27.5°	2783.8	2790.3	2796.9	2812.3	2830.7	2864.7	2914.4	2950.5	2946.0	2941.5	2946.0
30°	2642.4	2654.7	2667.1	2686.5	2708.3	2739.3	2779.4	2809.4	2809.0	2808.5	2809.0
32.5°	2494.1	2509.5	2525.0	2545.2	2566.9	2593.3	2624.2	2648.1	2651.1	2654.1	2651.1
35°	2253.4	2265.7	2278.1	2295.9	2315.6	2336.7	2359.3	2376.9	2379.5	2382.1	2379.5
37.5°	1946.8	1959.2	1971.7	1987.5	2004.4	2023.6	2045.2	2061.6	2062.0	2062.4	2062.0
40°	1723.2	1730.8	1738.5	1756.5	1777.8	1798.9	1819.8	1834.8	1831.8	1828.8	1831.8
42.5°	1494.2	1499.1	1504.1	1522.9	1546.3	1567.0	1585.2	1593.3	1571.2	1549.1	1571.2
45°	957.6	1037.5	1117.3	1157.7	1185.1	1199.4	1200.6	1185.4	1120.5	1055.6	1120.5
47.5°	495.8	574.0	652.2	735.4	820.3	840.2	795.1	743.8	673.8	603.8	673.8
50°	339.1	369.8	400.5	487.0	592.0	612.1	547.2	485.3	432.3	379.4	432.3
52.5°	253.0	268.0	283.1	350.2	434.7	443.9	377.6	321.4	295.5	269.5	295.5
55°	162.3	168.7	175.1	204.9	242.5	244.4	210.7	183.0	173.6	164.2	173.6
57.5°	99.9	108.3	116.6	129.6	144.1	144.2	130.0	117.1	108.3	99.5	108.3
60°	61.5	69.2	76.8	89.6	104.2	105.7	94.1	83.5	75.3	67.2	75.3
62.5°	55.3	58.2	61.1	70.4	81.9	82.9	73.4	65.5	62.5	59.6	62.5
65°	49.0	49.8	50.7	52.2	53.9	54.5	54.1	53.5	52.2	50.9	52.2
67.5°	42.1	43.4	44.6	45.3	45.7	46.1	46.6	46.7	45.8	45.0	45.8
70°	37.5	38.7	40.0	40.7	41.1	41.5	41.9	42.0	41.2	40.3	41.2
72.5°	33.6	34.6	35.5	36.1	36.5	36.9	37.3	37.4	36.6	35.7	36.6
75°	26.9	27.7	28.6	29.1	29.6	30.2	31.1	31.5	30.6	29.8	30.6
77.5°	21.1	22.0	22.8	23.3	23.6	24.0	24.5	24.6	23.8	23.1	23.8
80°	17.3	18.1	19.0	19.2	19.2	19.4	19.9	20.1	19.6	19.2	19.6
82.5°	13.4	14.0	14.5	14.6	14.6	14.8	15.2	15.5	15.5	15.4	15.5
85°	8.6	8.6	8.6	8.6	8.6	8.9	9.3	9.5	9.1	8.6	9.1
87.5°	6.5	6.9	7.0	6.9	6.9	6.7	6.2	5.4	4.4	3.7	4.4
90°	21.2	21.2	20.2	19.2	19.2	18.3	15.4	11.5	6.7	2.9	6.7
92.5°	25.0	25.0	24.0	23.9	22.3	20.6	16.9	16.9	16.7	10.6	18.3
95°	22.1	22.1	22.1	22.1	26.0	32.7	48.1	49.1	32.7	29.8	42.3
97.5°	50.6	53.5	59.8	71.2	87.3	90.4	85.6	63.9	61.2	56.9	77.5
100°	102.9	105.8	110.6	125.0	136.6	113.5	89.4	88.5	82.7	80.8	102.9
102.5°	169.1	169.7	172.9	177.4	137.3	124.3	118.7	114.6	105.8	104.6	126.8
105°	225.1	218.3	187.6	168.3	169.3	169.3	165.4	157.7	141.4	140.4	165.4
107.5°	220.3	219.5	220.6	223.5	228.5	227.4	222.9	202.4	183.1	178.7	201.2
110°	262.6	262.6	264.5	267.4	269.3	267.4	260.6	234.7	211.6	204.9	225.1

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	306.4	304.9	306.8	308.9	313.2	307.4	296.0	266.2	240.1	230.3	250.5
115°	373.2	373.2	374.1	374.1	375.1	372.2	349.1	318.4	283.7	269.3	286.6
117.5°	441.1	439.2	440.3	441.5	437.6	429.9	403.2	367.4	328.5	305.5	319.1
120°	481.9	483.8	481.9	483.8	479.9	468.4	442.4	402.0	357.8	330.9	341.4
122.5°	524.2	525.3	524.9	524.6	519.9	506.9	476.3	434.3	390.9	357.8	362.2
125°	591.5	586.7	584.8	583.8	580.0	564.6	532.8	489.6	438.6	398.2	392.4
127.5°	647.9	645.8	641.7	639.6	633.6	615.0	582.5	540.7	484.7	439.0	426.1
130°	684.8	685.8	681.0	678.1	667.5	647.3	615.5	576.1	519.4	467.4	449.2
132.5°	721.7	720.4	718.7	710.4	701.3	679.6	650.2	609.2	551.7	497.4	472.2
135°	774.2	771.4	766.6	758.9	747.3	726.2	698.3	657.9	600.2	541.5	506.9
137.5°	816.0	813.7	808.7	800.6	787.5	769.2	741.2	705.2	649.8	587.8	544.2
140°	840.6	840.6	834.8	825.2	813.7	795.4	770.4	732.9	679.0	619.4	570.3
142.5°	862.9	862.9	856.4	849.1	836.8	820.0	798.1	760.6	708.3	649.4	597.3
145°	892.5	892.5	888.7	882.9	869.5	854.1	835.8	798.3	750.2	691.5	639.6
147.5°	918.7	920.8	916.0	911.4	900.8	882.7	867.3	831.4	787.5	735.6	682.3
150°	934.9	937.8	932.9	929.1	918.5	901.2	885.8	852.2	809.8	761.7	710.8
152.5°	950.3	952.4	949.1	945.3	933.1	915.8	902.7	871.4	832.9	787.1	735.4
155°	969.5	974.3	970.5	965.6	954.1	937.8	926.2	897.4	861.8	821.4	777.1
157.5°	989.1	991.2	987.4	981.4	970.6	956.6	944.3	917.7	886.8	852.0	813.3
160°	998.3	1001.2	997.4	990.7	979.1	966.6	955.1	930.1	902.2	870.4	834.8
162.5°	1004.5	1008.2	1004.3	998.3	984.5	973.5	963.5	940.8	914.5	885.8	854.1
165°	1010.8	1014.7	1011.8	1005.1	990.7	982.0	973.3	954.1	931.0	907.9	881.0
167.5°	1011.2	1016.0	1012.4	1006.8	992.4	983.9	977.6	961.0	942.4	924.7	903.7
170°	1008.9	1013.7	1010.8	1006.0	991.6	983.9	979.1	965.6	949.3	933.9	917.6
172.5°	1003.5	1007.6	1005.5	1000.7	987.0	980.8	978.3	966.4	953.1	941.6	927.6
175°	989.7	995.5	991.6	987.8	976.2	972.4	973.3	965.6	956.0	949.3	940.6
177.5°	969.1	972.2	971.4	969.1	960.6	960.6	963.7	959.1	956.0	952.9	949.1
180°	952.2	952.2	952.2	952.2	952.2	952.2	952.2	952.2	952.2	952.2	952.2

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3	3349.3
2.5°	3354.1	3344.4	3332.8	3333.8	3347.5	3357.2	3354.8	3352.4
5°	3353.4	3342.3	3329.0	3332.9	3353.8	3369.3	3368.4	3367.5
7.5°	3357.2	3348.1	3336.9	3339.3	3355.4	3366.7	3363.4	3360.1
10°	3362.4	3349.9	3332.9	3333.1	3350.6	3363.4	3362.1	3360.8
12.5°	3369.8	3354.3	3331.8	3326.7	3339.1	3347.5	3344.2	3340.8
15°	3371.4	3350.9	3319.7	3304.4	3304.8	3303.5	3297.1	3290.7
17.5°	3339.8	3313.1	3272.7	3246.6	3234.9	3224.1	3216.0	3207.9
20°	3300.7	3269.3	3222.7	3190.7	3173.2	3158.1	3149.9	3141.8
22.5°	3238.8	3203.2	3151.5	3116.8	3098.9	3083.9	3077.1	3070.4
25°	3119.0	3081.0	3026.8	2990.3	2971.5	2956.5	2952.6	2948.8
27.5°	2950.5	2914.4	2864.7	2830.7	2812.3	2796.9	2790.3	2783.8
30°	2809.4	2779.4	2739.3	2708.3	2686.5	2667.1	2654.7	2642.4
32.5°	2648.1	2624.2	2593.3	2566.9	2545.2	2525.0	2509.5	2494.1
35°	2376.9	2359.3	2336.7	2315.6	2295.9	2278.1	2265.7	2253.4
37.5°	2061.6	2045.2	2023.6	2004.4	1987.5	1971.7	1959.2	1946.8
40°	1834.8	1819.8	1798.9	1777.8	1756.5	1738.5	1730.8	1723.2
42.5°	1593.3	1585.2	1567.0	1546.3	1522.9	1504.1	1499.1	1494.2
45°	1185.4	1200.6	1199.4	1185.1	1157.7	1117.3	1037.5	957.6
47.5°	743.8	795.1	840.2	820.3	735.4	652.2	574.0	495.8
50°	485.3	547.2	612.1	592.0	487.0	400.5	369.8	339.1
52.5°	321.4	377.6	443.9	434.7	350.2	283.1	268.0	253.0
55°	183.0	210.7	244.4	242.5	204.9	175.1	168.7	162.3
57.5°	117.1	130.0	144.2	144.1	129.6	116.6	108.3	99.9
60°	83.5	94.1	105.7	104.2	89.6	76.8	69.2	61.5
62.5°	65.5	73.4	82.9	81.9	70.4	61.1	58.2	55.3
65°	53.5	54.1	54.5	53.9	52.2	50.7	49.8	49.0
67.5°	46.7	46.6	46.1	45.7	45.3	44.6	43.4	42.1
70°	42.0	41.9	41.5	41.1	40.7	40.0	38.7	37.5
72.5°	37.4	37.3	36.9	36.5	36.1	35.5	34.6	33.6
75°	31.5	31.1	30.2	29.6	29.1	28.6	27.7	26.9
77.5°	24.6	24.5	24.0	23.6	23.3	22.8	22.0	21.1
80°	20.1	19.9	19.4	19.2	19.2	19.0	18.1	17.3
82.5°	15.5	15.2	14.8	14.6	14.6	14.5	14.0	13.4
85°	9.5	9.3	8.9	8.6	8.6	8.6	8.6	8.6
87.5°	5.2	6.5	7.5	8.8	10.2	10.9	11.3	10.6
90°	10.6	17.3	22.1	28.9	35.6	39.4	43.3	41.4
92.5°	26.0	37.3	44.4	55.8	64.1	71.0	74.1	73.7
95°	59.6	75.0	89.4	102.9	116.4	126.0	131.8	129.8
97.5°	94.6	119.5	137.9	156.0	171.0	180.0	185.8	189.7
100°	119.3	143.3	170.2	187.6	204.9	215.4	225.1	228.9
102.5°	149.3	169.5	196.4	219.1	237.9	249.3	257.4	261.2
105°	191.4	216.4	239.5	263.5	283.7	298.2	306.8	309.7
107.5°	232.4	259.9	282.6	307.4	326.0	342.0	352.6	358.8
110°	257.8	287.6	316.4	336.6	356.8	371.3	381.8	385.7

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	283.9	314.5	344.9	367.4	387.6	402.0	414.1	419.5
115°	317.4	351.1	384.7	414.5	432.8	446.3	454.9	459.7
117.5°	351.6	386.3	417.8	449.0	469.0	479.4	483.4	486.9
120°	373.2	407.8	438.6	467.4	490.5	504.0	508.8	510.7
122.5°	391.6	425.5	457.8	485.1	507.4	524.0	531.9	533.8
125°	417.4	452.0	484.7	510.7	533.8	550.1	558.8	563.6
127.5°	441.8	473.6	508.2	536.3	557.5	572.3	580.7	584.6
130°	458.8	486.7	521.3	550.1	571.3	587.7	595.4	599.2
132.5°	476.5	498.2	531.3	561.7	583.6	598.4	606.9	610.7
135°	503.0	515.5	543.4	575.2	598.2	612.7	620.4	624.2
137.5°	531.3	536.1	554.0	582.8	606.9	622.1	629.0	631.5
140°	552.1	549.2	561.7	586.7	610.7	625.2	632.9	633.8
142.5°	573.6	566.9	571.7	591.3	612.3	626.7	634.4	636.1
145°	608.8	594.4	589.6	601.1	615.5	629.0	635.7	637.7
147.5°	644.2	625.6	612.1	615.7	623.2	632.1	638.6	640.0
150°	670.4	646.3	629.0	628.1	630.9	636.7	642.5	641.5
152.5°	695.0	670.2	648.3	642.7	642.5	645.2	647.9	647.7
155°	734.8	706.9	681.0	670.4	664.6	662.7	662.7	661.7
157.5°	772.9	744.4	716.9	702.1	693.5	688.8	687.5	685.4
160°	798.3	767.5	741.5	725.2	716.5	708.8	706.0	703.1
162.5°	822.1	793.7	764.6	749.0	739.6	732.7	729.8	725.4
165°	855.0	832.0	802.1	785.8	775.2	769.4	765.6	761.7
167.5°	883.3	864.1	839.6	821.8	814.8	808.3	804.6	797.7
170°	900.2	884.9	862.7	846.4	842.5	836.8	830.0	822.3
172.5°	914.9	902.5	882.7	871.8	867.9	862.2	860.0	853.9
175°	932.9	926.2	911.8	903.1	903.1	902.2	899.3	893.5
177.5°	946.8	944.5	936.0	931.4	934.5	934.5	933.7	928.3
180°	952.2	952.2	952.2	952.2	952.2	952.2	952.2	952.2

(END OF REPORT)