

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: P709359

Luminaire Tested: DL2W-WB-M-075U-125D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709359
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-935-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: 8333.7 lumens
Efficiency: N/A
Efficacy: 113.7 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

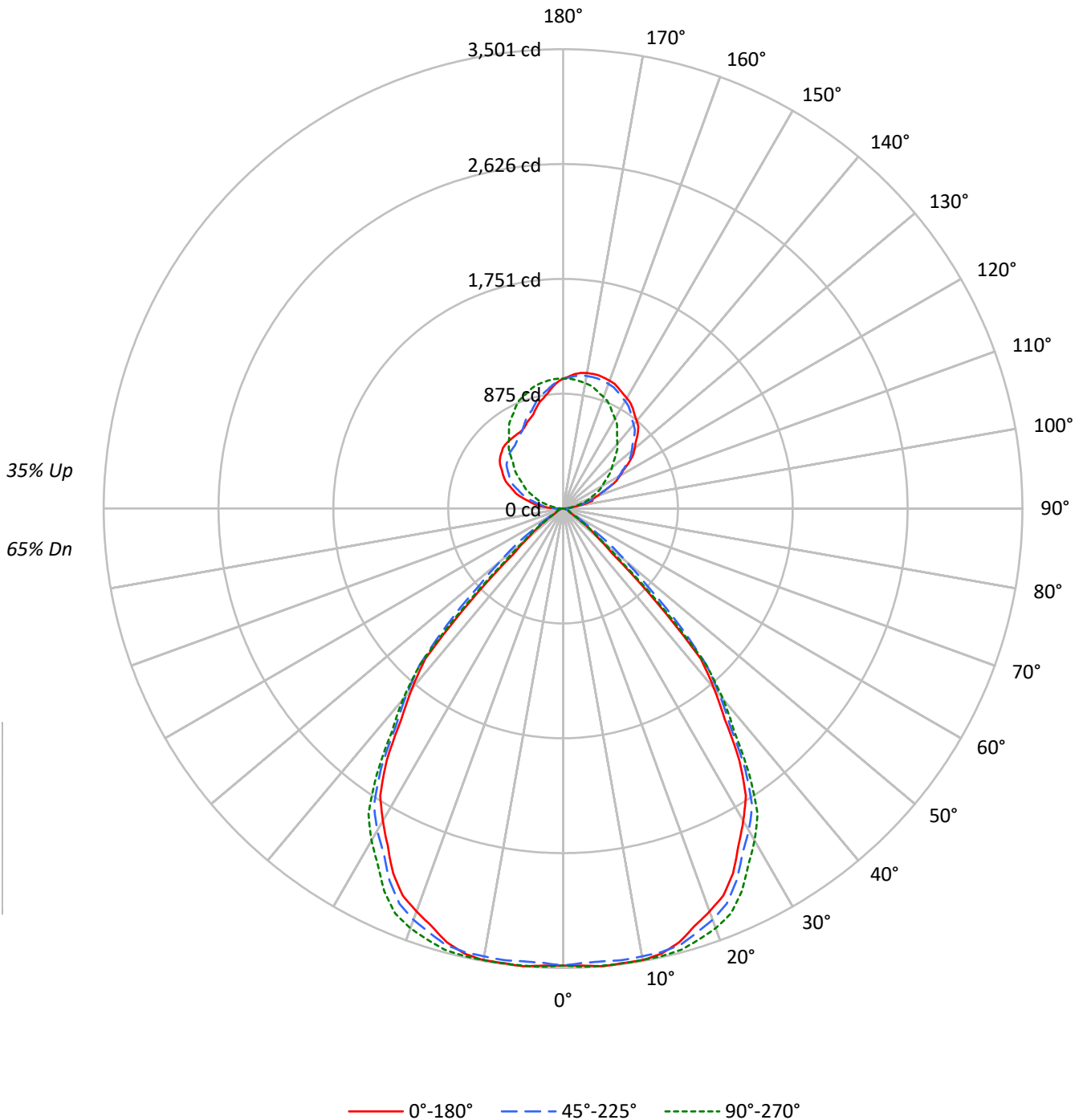
Input Watts (W): 73.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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°	56225	56225	56225	56225	56225
5°	56747	56131	56666	56131	56747
10°	57289	56814	57272	56814	57289
15°	57190	57561	58191	57561	57190
20°	56127	57286	58477	57286	56127
25°	54619	55726	57377	55726	54619
30°	51220	52799	54441	52799	51220
35°	46180	47671	48817	47671	46180
40°	37761	39190	40078	39190	37761
45°	22735	28303	25060	28303	22735
50°	8854	15723	9909	15723	8854
55°	4752	7125	4808	7125	4752
60°	2063	3523	2257	3523	2063
65°	1945	2153	2021	2153	1945
70°	1836	2028	1978	2028	1836
75°	1747	1937	1934	1937	1747
80°	1674	1869	1860	1869	1674
85°	1667	1686	1667	1686	1667

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 28503 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	332.7	4.0
10°-20°	972.6	11.7
20°-30°	1437.8	17.3
30°-40°	1485.7	17.8
40°-50°	893.9	10.7
50°-60°	214.6	2.6
60°-70°	58.7	0.7
70°-80°	32.7	0.4
80°-90°	14.4	0.2
90°-100°	78.8	0.9
100°-110°	229.8	2.8
110°-120°	375.0	4.5
120°-130°	475.8	5.7
130°-140°	509.1	6.1
140°-150°	475.4	5.7
150°-160°	391.2	4.7
160°-170°	262.4	3.1
170°-180°	93.2	1.1
0°-30°	2743.1	32.9
0°-40°	4228.8	50.7
0°-60°	5337.4	64.0
0°-90°	5443.1	65.3
90°-120°	683.5	8.2
90°-150°	2143.9	25.7
90°-180°	2891.0	34.7
0°-180°	8333.7	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3482	3482	3482	3482	3482	
5°	3501	3463	3496	3463	3501	334
15°	3421	3444	3481	3444	3421	961
25°	3066	3128	3221	3128	3066	1400
35°	2343	2419	2477	2419	2343	1437
45°	996	1240	1098	1240	996	783
55°	169	253	171	253	169	164
65°	51	56	53	56	51	50
75°	28	31	31	31	28	30
85°	9	9	9	9	9	10
90°	22	20	3	26	43	11
95°	23	30	31	100	135	39
105°	234	176	146	262	322	219
115°	388	388	280	416	478	384
125°	615	595	414	518	586	545
135°	805	766	563	582	649	617
145°	928	896	719	619	663	580
155°	1008	984	854	702	688	465
165°	1051	1026	944	826	792	297
175°	1029	1013	987	944	929	99
180°	990	990	990	990	990	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3
2.5°	3485.5	3488.0	3490.5	3480.5	3466.3	3465.2	3477.3	3487.3	3491.2	3495.1	3491.2
5°	3501.3	3502.2	3503.1	3487.0	3465.2	3461.3	3475.0	3486.5	3491.4	3496.3	3491.4
7.5°	3493.5	3497.0	3500.4	3488.7	3471.9	3469.4	3481.1	3490.6	3493.1	3495.7	3493.1
10°	3494.3	3495.6	3497.0	3483.7	3465.5	3465.2	3483.0	3496.0	3494.6	3493.3	3494.6
12.5°	3473.5	3477.0	3480.5	3471.7	3458.8	3464.1	3487.5	3503.6	3497.7	3491.7	3497.7
15°	3421.4	3428.1	3434.7	3436.1	3435.6	3451.6	3484.0	3505.3	3493.3	3481.3	3493.3
17.5°	3335.3	3343.8	3352.2	3363.4	3375.6	3402.7	3444.7	3472.5	3457.9	3443.4	3457.9
20°	3266.6	3275.1	3283.5	3299.2	3317.4	3350.7	3399.1	3431.8	3417.6	3403.4	3417.6
22.5°	3192.3	3199.3	3206.3	3222.0	3240.6	3276.7	3330.4	3367.4	3354.3	3341.1	3354.3
25°	3065.9	3069.9	3073.9	3089.5	3109.1	3147.0	3203.4	3242.9	3231.8	3220.7	3231.8
27.5°	2894.3	2901.2	2908.0	2924.0	2943.1	2978.5	3030.1	3067.7	3063.0	3058.3	3063.0
30°	2747.3	2760.2	2773.1	2793.3	2815.9	2848.1	2889.8	2921.0	2920.5	2920.1	2920.5
32.5°	2593.1	2609.2	2625.3	2646.3	2668.9	2696.3	2728.4	2753.3	2756.4	2759.5	2756.4
35°	2342.9	2355.7	2368.6	2387.1	2407.6	2429.5	2453.0	2471.4	2474.0	2476.7	2474.0
37.5°	2024.1	2037.0	2050.0	2066.4	2084.0	2104.0	2126.5	2143.4	2143.9	2144.3	2143.9
40°	1791.6	1799.6	1807.6	1826.2	1848.4	1870.4	1892.1	1907.7	1904.6	1901.5	1904.6
42.5°	1553.5	1558.7	1563.8	1583.3	1607.7	1629.3	1648.2	1656.6	1633.6	1610.6	1633.6
45°	995.7	1078.7	1161.7	1203.7	1232.1	1247.0	1248.3	1232.5	1165.0	1097.5	1165.0
47.5°	515.5	596.8	678.1	764.6	852.9	873.6	826.7	773.3	700.5	627.8	700.5
50°	352.5	384.5	416.4	506.3	615.5	636.4	568.9	504.5	449.5	394.5	449.5
52.5°	263.0	278.7	294.3	364.1	452.0	461.5	392.6	334.2	307.2	280.2	307.2
55°	168.8	175.4	182.1	213.0	252.1	254.1	219.0	190.3	180.5	170.8	180.5
57.5°	103.9	112.6	121.3	134.8	149.8	150.0	135.2	121.7	112.6	103.5	112.6
60°	63.9	71.9	79.9	93.2	108.3	109.9	97.9	86.8	78.3	69.9	78.3
62.5°	57.5	60.5	63.6	73.2	85.1	86.2	76.3	68.1	65.0	61.9	65.0
65°	50.9	51.8	52.7	54.3	56.0	56.7	56.3	55.6	54.3	52.9	54.3
67.5°	43.7	45.1	46.4	47.1	47.5	48.0	48.4	48.5	47.6	46.7	47.6
70°	38.9	40.3	41.6	42.3	42.7	43.2	43.6	43.7	42.8	41.9	42.8
72.5°	35.0	35.9	36.9	37.5	37.9	38.4	38.8	38.9	38.0	37.2	38.0
75°	28.0	28.9	29.7	30.3	30.7	31.4	32.3	32.7	31.8	31.0	31.8
77.5°	22.0	22.9	23.7	24.2	24.6	25.0	25.4	25.6	24.8	24.0	24.8
80°	18.0	18.9	19.8	20.0	20.0	20.2	20.6	20.9	20.4	20.0	20.4
82.5°	14.0	14.5	15.0	15.2	15.2	15.4	15.8	16.2	16.1	16.0	16.1
85°	9.0	9.0	9.0	9.0	9.0	9.2	9.7	9.9	9.4	9.0	9.4
87.5°	6.8	7.2	7.3	7.2	7.2	7.0	6.4	5.6	4.6	3.8	4.6
90°	22.0	22.0	21.0	20.0	20.0	19.0	16.0	12.0	7.0	3.0	7.0
92.5°	26.0	26.0	25.0	24.8	23.2	21.4	17.6	17.6	17.4	11.0	19.0
95°	23.0	23.0	23.0	23.0	27.0	34.0	50.0	51.0	34.0	31.0	44.0
97.5°	52.6	55.6	62.2	74.0	90.8	94.0	89.0	66.4	63.6	59.2	80.6
100°	107.0	110.0	115.0	130.0	142.0	118.0	93.0	92.0	86.0	84.0	107.0
102.5°	175.8	176.4	179.8	184.4	142.8	129.2	123.4	119.2	110.0	108.8	131.8
105°	234.0	227.0	195.0	175.0	176.0	176.0	172.0	164.0	147.0	146.0	172.0
107.5°	229.0	228.2	229.4	232.4	237.6	236.4	231.8	210.4	190.4	185.8	209.2
110°	273.0	273.0	275.0	278.0	280.0	278.0	271.0	244.0	220.0	213.0	234.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	318.6	317.0	319.0	321.2	325.6	319.6	307.8	276.8	249.6	239.4	260.4
115°	388.0	388.0	389.0	389.0	390.0	387.0	363.0	331.0	295.0	280.0	298.0
117.5°	458.6	456.6	457.8	459.0	455.0	447.0	419.2	382.0	341.6	317.6	331.8
120°	501.0	503.0	501.0	503.0	499.0	487.0	460.0	418.0	372.0	344.0	355.0
122.5°	545.0	546.2	545.8	545.4	540.6	527.0	495.2	451.6	406.4	372.0	376.6
125°	615.0	610.0	608.0	607.0	603.0	587.0	554.0	509.0	456.0	414.0	408.0
127.5°	673.6	671.4	667.2	665.0	658.8	639.4	605.6	562.2	504.0	456.4	443.0
130°	712.0	713.0	708.0	705.0	694.0	673.0	640.0	599.0	540.0	486.0	467.0
132.5°	750.4	749.0	747.2	738.6	729.2	706.6	676.0	633.4	573.6	517.2	491.0
135°	805.0	802.0	797.0	789.0	777.0	755.0	726.0	684.0	624.0	563.0	527.0
137.5°	848.4	846.0	840.8	832.4	818.8	799.8	770.6	733.2	675.6	611.2	565.8
140°	874.0	874.0	868.0	858.0	846.0	827.0	801.0	762.0	706.0	644.0	593.0
142.5°	897.2	897.2	890.4	882.8	870.0	852.6	829.8	790.8	736.4	675.2	621.0
145°	928.0	928.0	924.0	918.0	904.0	888.0	869.0	830.0	780.0	719.0	665.0
147.5°	955.2	957.4	952.4	947.6	936.6	917.8	901.8	864.4	818.8	764.8	709.4
150°	972.0	975.0	970.0	966.0	955.0	937.0	921.0	886.0	842.0	792.0	739.0
152.5°	988.0	990.2	986.8	982.8	970.2	952.2	938.6	906.0	866.0	818.4	764.6
155°	1008.0	1013.0	1009.0	1004.0	992.0	975.0	963.0	933.0	896.0	854.0	808.0
157.5°	1028.4	1030.6	1026.6	1020.4	1009.2	994.6	981.8	954.2	922.0	885.8	845.6
160°	1038.0	1041.0	1037.0	1030.0	1018.0	1005.0	993.0	967.0	938.0	905.0	868.0
162.5°	1044.4	1048.2	1044.2	1038.0	1023.6	1012.2	1001.8	978.2	950.8	921.0	888.0
165°	1051.0	1055.0	1052.0	1045.0	1030.0	1021.0	1012.0	992.0	968.0	944.0	916.0
167.5°	1051.4	1056.4	1052.6	1046.8	1031.8	1023.0	1016.4	999.2	979.8	961.4	939.6
170°	1049.0	1054.0	1051.0	1046.0	1031.0	1023.0	1018.0	1004.0	987.0	971.0	954.0
172.5°	1043.4	1047.6	1045.4	1040.4	1026.2	1019.8	1017.2	1004.8	991.0	979.0	964.4
175°	1029.0	1035.0	1031.0	1027.0	1015.0	1011.0	1012.0	1004.0	994.0	987.0	978.0
177.5°	1007.6	1010.8	1010.0	1007.6	998.8	998.8	1002.0	997.2	994.0	990.8	986.8
180°	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3	3482.3
2.5°	3487.3	3477.3	3465.2	3466.3	3480.5	3490.5	3488.0	3485.5
5°	3486.5	3475.0	3461.3	3465.2	3487.0	3503.1	3502.2	3501.3
7.5°	3490.6	3481.1	3469.4	3471.9	3488.7	3500.4	3497.0	3493.5
10°	3496.0	3483.0	3465.2	3465.5	3483.7	3497.0	3495.6	3494.3
12.5°	3503.6	3487.5	3464.1	3458.8	3471.7	3480.5	3477.0	3473.5
15°	3505.3	3484.0	3451.6	3435.6	3436.1	3434.7	3428.1	3421.4
17.5°	3472.5	3444.7	3402.7	3375.6	3363.4	3352.2	3343.8	3335.3
20°	3431.8	3399.1	3350.7	3317.4	3299.2	3283.5	3275.1	3266.6
22.5°	3367.4	3330.4	3276.7	3240.6	3222.0	3206.3	3199.3	3192.3
25°	3242.9	3203.4	3147.0	3109.1	3089.5	3073.9	3069.9	3065.9
27.5°	3067.7	3030.1	2978.5	2943.1	2924.0	2908.0	2901.2	2894.3
30°	2921.0	2889.8	2848.1	2815.9	2793.3	2773.1	2760.2	2747.3
32.5°	2753.3	2728.4	2696.3	2668.9	2646.3	2625.3	2609.2	2593.1
35°	2471.4	2453.0	2429.5	2407.6	2387.1	2368.6	2355.7	2342.9
37.5°	2143.4	2126.5	2104.0	2084.0	2066.4	2050.0	2037.0	2024.1
40°	1907.7	1892.1	1870.4	1848.4	1826.2	1807.6	1799.6	1791.6
42.5°	1656.6	1648.2	1629.3	1607.7	1583.3	1563.8	1558.7	1553.5
45°	1232.5	1248.3	1247.0	1232.1	1203.7	1161.7	1078.7	995.7
47.5°	773.3	826.7	873.6	852.9	764.6	678.1	596.8	515.5
50°	504.5	568.9	636.4	615.5	506.3	416.4	384.5	352.5
52.5°	334.2	392.6	461.5	452.0	364.1	294.3	278.7	263.0
55°	190.3	219.0	254.1	252.1	213.0	182.1	175.4	168.8
57.5°	121.7	135.2	150.0	149.8	134.8	121.3	112.6	103.9
60°	86.8	97.9	109.9	108.3	93.2	79.9	71.9	63.9
62.5°	68.1	76.3	86.2	85.1	73.2	63.6	60.5	57.5
65°	55.6	56.3	56.7	56.0	54.3	52.7	51.8	50.9
67.5°	48.5	48.4	48.0	47.5	47.1	46.4	45.1	43.7
70°	43.7	43.6	43.2	42.7	42.3	41.6	40.3	38.9
72.5°	38.9	38.8	38.4	37.9	37.5	36.9	35.9	35.0
75°	32.7	32.3	31.4	30.7	30.3	29.7	28.9	28.0
77.5°	25.6	25.4	25.0	24.6	24.2	23.7	22.9	22.0
80°	20.9	20.6	20.2	20.0	20.0	19.8	18.9	18.0
82.5°	16.2	15.8	15.4	15.2	15.2	15.0	14.5	14.0
85°	9.9	9.7	9.2	9.0	9.0	9.0	9.0	9.0
87.5°	5.4	6.8	7.8	9.2	10.6	11.3	11.8	11.0
90°	11.0	18.0	23.0	30.0	37.0	41.0	45.0	43.0
92.5°	27.0	38.8	46.2	58.0	66.6	73.8	77.0	76.6
95°	62.0	78.0	93.0	107.0	121.0	131.0	137.0	135.0
97.5°	98.4	124.2	143.4	162.2	177.8	187.2	193.2	197.2
100°	124.0	149.0	177.0	195.0	213.0	224.0	234.0	238.0
102.5°	155.2	176.2	204.2	227.8	247.4	259.2	267.6	271.6
105°	199.0	225.0	249.0	274.0	295.0	310.0	319.0	322.0
107.5°	241.6	270.2	293.8	319.6	339.0	355.6	366.6	373.0
110°	268.0	299.0	329.0	350.0	371.0	386.0	397.0	401.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	295.2	327.0	358.6	382.0	403.0	418.0	430.6	436.2
115°	330.0	365.0	400.0	431.0	450.0	464.0	473.0	478.0
117.5°	365.6	401.6	434.4	466.8	487.6	498.4	502.6	506.2
120°	388.0	424.0	456.0	486.0	510.0	524.0	529.0	531.0
122.5°	407.2	442.4	476.0	504.4	527.6	544.8	553.0	555.0
125°	434.0	470.0	504.0	531.0	555.0	572.0	581.0	586.0
127.5°	459.4	492.4	528.4	557.6	579.6	595.0	603.8	607.8
130°	477.0	506.0	542.0	572.0	594.0	611.0	619.0	623.0
132.5°	495.4	518.0	552.4	584.0	606.8	622.2	631.0	635.0
135°	523.0	536.0	565.0	598.0	622.0	637.0	645.0	649.0
137.5°	552.4	557.4	576.0	606.0	631.0	646.8	654.0	656.6
140°	574.0	571.0	584.0	610.0	635.0	650.0	658.0	659.0
142.5°	596.4	589.4	594.4	614.8	636.6	651.6	659.6	661.4
145°	633.0	618.0	613.0	625.0	640.0	654.0	661.0	663.0
147.5°	669.8	650.4	636.4	640.2	648.0	657.2	664.0	665.4
150°	697.0	672.0	654.0	653.0	656.0	662.0	668.0	667.0
152.5°	722.6	696.8	674.0	668.2	668.0	670.8	673.6	673.4
155°	764.0	735.0	708.0	697.0	691.0	689.0	689.0	688.0
157.5°	803.6	774.0	745.4	730.0	721.0	716.2	714.8	712.6
160°	830.0	798.0	771.0	754.0	745.0	737.0	734.0	731.0
162.5°	854.8	825.2	795.0	778.8	769.0	761.8	758.8	754.2
165°	889.0	865.0	834.0	817.0	806.0	800.0	796.0	792.0
167.5°	918.4	898.4	873.0	854.4	847.2	840.4	836.6	829.4
170°	936.0	920.0	897.0	880.0	876.0	870.0	863.0	855.0
172.5°	951.2	938.4	917.8	906.4	902.4	896.4	894.2	887.8
175°	970.0	963.0	948.0	939.0	939.0	938.0	935.0	929.0
177.5°	984.4	982.0	973.2	968.4	971.6	971.6	970.8	965.2
180°	990.0	990.0	990.0	990.0	990.0	990.0	990.0	990.0

(END OF REPORT)