

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: P709341

Luminaire Tested: DL2W-WB-M-050U-075D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

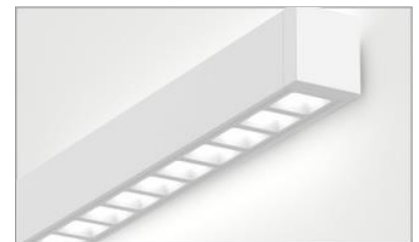
Test Information

Test Method: LM-79-2019
Report Number: P709341
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, G3-2104-222-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-050U-075D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 750 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5170.0 lumens
Efficiency: N/A
Efficacy: 121.6 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

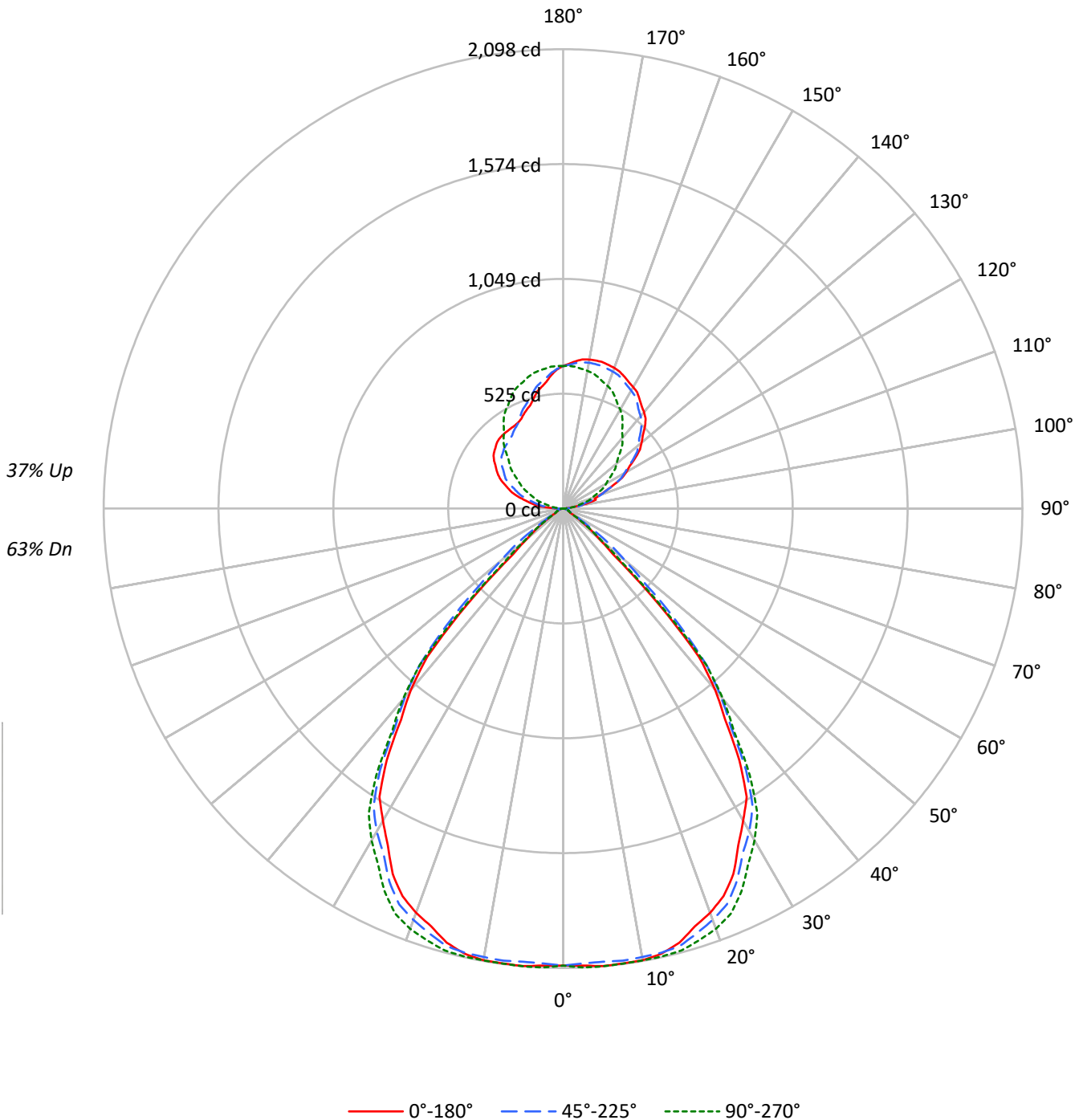
Input Watts (W): 42.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	0
RCR																		
0	110	110	110	110	103	103	103	103	91	91	91	79	79	79	68	68	68	63
1	103	99	96	93	97	94	91	89	83	81	79	73	72	70	64	63	62	58
2	96	90	85	80	90	85	80	77	76	72	69	67	65	63	59	57	56	52
3	89	81	75	70	84	77	71	67	69	65	61	62	58	56	55	52	51	47
4	83	74	67	62	78	70	64	59	63	58	55	57	53	50	51	48	46	43
5	77	67	60	55	73	64	57	53	58	53	49	52	48	45	47	44	42	39
6	72	61	54	49	68	58	52	47	53	48	44	48	44	41	43	40	38	35
7	67	56	49	44	63	54	47	43	49	44	40	45	40	37	40	37	35	32
8	63	52	45	40	59	49	43	39	45	40	36	41	37	34	38	34	32	30
9	59	48	41	36	56	46	39	35	42	37	33	38	34	31	35	32	29	27
10	55	44	38	33	52	42	36	32	39	34	30	36	32	29	33	29	27	25

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	33700	33700	33700	33700	33700
5°	33990	33669	34007	33669	33990
10°	34334	34101	34351	34101	34334
15°	34302	34550	34922	34550	34302
20°	33747	34343	35087	34343	33747
25°	32797	33456	34367	33456	32797
30°	30667	31725	32608	31725	30667
35°	27670	28706	29325	28706	27670
40°	22776	23639	24040	23639	22776
45°	14118	17022	15034	17022	14118
50°	5378	9315	5880	9315	5378
55°	2874	4322	2902	4322	2874
60°	1227	2101	1356	2101	1227
65°	1146	1287	1223	1287	1146
70°	1133	1223	1180	1223	1133
75°	1061	1179	1185	1179	1061
80°	1023	1125	1116	1125	1023
85°	926	945	1112	945	926

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 50°
 Vertical Angle: 45°
 Luminance: 17112 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	199.6	3.9
10°-20°	583.5	11.3
20°-30°	862.8	16.7
30°-40°	892.7	17.3
40°-50°	536.9	10.4
50°-60°	128.4	2.5
60°-70°	35.1	0.7
70°-80°	19.6	0.4
80°-90°	8.9	0.2
90°-100°	52.0	1.0
100°-110°	151.3	2.9
110°-120°	246.7	4.8
120°-130°	313.2	6.1
130°-140°	335.0	6.5
140°-150°	312.8	6.0
150°-160°	257.5	5.0
160°-170°	172.7	3.3
170°-180°	61.3	1.2
0°-30°	1645.8	31.8
0°-40°	2538.5	49.1
0°-60°	3203.8	62.0
0°-90°	3267.5	63.2
90°-120°	450.0	8.7
90°-150°	1410.9	27.3
90°-180°	1903.0	36.8
0°-180°	5170.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2087	2087	2087	2087	2087	
5°	2097	2077	2098	2077	2097	200
15°	2052	2067	2089	2067	2052	577
25°	1841	1878	1929	1878	1841	840
35°	1404	1456	1488	1456	1404	863
45°	618	746	658	746	618	473
55°	102	154	103	154	102	99
65°	30	34	32	34	30	30
75°	17	19	19	19	17	18
85°	5	5	6	5	5	6
90°	14	13	2	18	30	7
95°	15	20	20	67	91	26
105°	155	116	95	172	213	144
115°	253	255	183	274	315	252
125°	402	390	273	341	385	359
135°	529	503	371	383	427	406
145°	609	590	473	406	436	382
155°	664	648	562	463	452	306
165°	693	674	621	542	520	196
175°	676	667	650	622	612	65
180°	651	651	651	651	651	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2
2.5°	2088.8	2090.5	2092.3	2086.9	2079.1	2078.9	2086.4	2092.6	2095.1	2097.6	2095.1
5°	2097.2	2098.5	2099.8	2090.8	2078.4	2076.4	2084.8	2091.9	2095.1	2098.2	2095.1
7.5°	2095.0	2097.0	2099.1	2092.5	2083.1	2081.6	2088.1	2093.3	2094.6	2096.0	2094.6
10°	2094.2	2095.5	2096.8	2089.8	2080.1	2079.8	2089.2	2096.1	2095.6	2095.2	2095.6
12.5°	2082.2	2085.3	2088.4	2083.4	2075.8	2078.8	2092.4	2101.7	2098.0	2094.4	2098.0
15°	2052.1	2056.6	2061.0	2062.2	2062.2	2071.7	2090.8	2103.4	2096.3	2089.2	2096.3
17.5°	2000.9	2006.3	2011.8	2018.3	2025.1	2041.3	2066.8	2083.9	2075.4	2067.0	2075.4
20°	1964.1	1966.3	1968.5	1977.4	1988.6	2009.0	2038.8	2059.0	2050.6	2042.1	2050.6
22.5°	1916.1	1919.7	1923.4	1933.4	1945.6	1967.7	1999.6	2021.2	2012.1	2002.9	2012.1
25°	1841.0	1845.9	1850.8	1858.7	1867.6	1888.3	1920.7	1943.3	1936.2	1929.1	1936.2
27.5°	1733.0	1739.7	1746.5	1755.8	1765.9	1786.2	1816.6	1838.4	1834.5	1830.6	1834.5
30°	1644.9	1655.6	1666.3	1678.9	1692.3	1711.0	1735.0	1752.5	1750.8	1749.0	1750.8
32.5°	1560.9	1569.4	1577.9	1589.6	1602.2	1619.1	1640.2	1655.7	1653.9	1652.1	1653.9
35°	1403.8	1412.7	1421.6	1434.8	1449.5	1463.3	1476.2	1486.1	1486.9	1487.8	1486.9
37.5°	1215.9	1224.9	1233.8	1244.8	1256.3	1267.2	1277.4	1284.8	1283.6	1282.3	1283.6
40°	1080.6	1082.8	1085.1	1098.3	1115.2	1127.9	1136.3	1142.4	1141.5	1140.6	1141.5
42.5°	918.9	929.3	939.7	952.1	965.0	977.4	989.0	994.4	981.1	967.7	981.1
45°	618.3	661.0	703.7	726.1	741.6	749.4	749.4	739.3	698.8	658.4	698.8
47.5°	311.0	362.8	414.7	462.3	508.6	519.2	494.2	463.9	417.9	371.8	417.9
50°	214.1	231.5	248.8	301.2	365.2	376.5	335.2	296.4	265.3	234.1	265.3
52.5°	157.3	166.4	175.6	218.5	272.5	277.8	234.3	197.8	181.9	166.1	181.9
55°	102.1	105.6	109.2	128.4	152.9	154.2	132.4	114.6	108.8	103.1	108.8
57.5°	62.0	67.6	73.2	81.0	89.6	89.6	81.0	73.2	67.2	61.2	67.2
60°	38.0	42.9	47.8	55.7	64.6	65.5	58.4	51.8	46.9	42.0	46.9
62.5°	34.8	36.5	38.2	44.0	51.1	51.6	45.6	40.5	38.5	36.4	38.5
65°	30.0	30.9	31.8	32.7	33.6	33.8	33.4	32.9	32.5	32.0	32.5
67.5°	26.4	27.2	28.0	28.3	28.4	28.6	28.9	29.1	28.7	28.2	28.7
70°	24.0	24.5	24.9	25.3	25.8	26.0	26.0	25.9	25.5	25.0	25.5
72.5°	20.8	21.6	22.4	22.7	22.8	23.0	23.3	23.5	23.1	22.6	23.1
75°	17.0	17.5	17.9	18.3	18.8	19.0	19.0	19.0	19.0	19.0	19.0
77.5°	13.4	13.9	14.3	14.4	14.4	14.6	15.1	15.3	14.9	14.4	14.9
80°	11.0	11.5	11.9	12.0	12.0	12.2	12.7	12.9	12.5	12.0	12.5
82.5°	8.6	9.0	9.5	9.6	9.6	9.6	9.7	9.8	9.7	9.6	9.7
85°	5.0	5.0	5.0	5.0	5.0	5.2	5.7	6.0	6.0	6.0	6.0
87.5°	4.4	4.4	4.4	4.4	4.2	4.4	4.3	3.9	3.0	2.0	3.0
90°	14.0	14.0	14.0	14.0	13.0	13.0	11.0	8.0	5.0	2.0	5.0
92.5°	17.2	17.2	16.4	16.4	15.4	13.8	11.8	11.2	12.2	6.8	13.0
95°	15.0	15.0	15.0	15.0	17.0	23.0	32.0	34.0	23.0	20.0	28.0
97.5°	35.4	37.8	41.2	49.6	58.4	63.0	59.2	43.0	41.6	39.8	53.2
100°	73.0	73.0	78.0	84.0	96.0	79.0	60.0	59.0	56.0	55.0	70.0
102.5°	115.4	117.8	120.4	121.6	94.4	85.4	82.4	76.6	72.0	71.0	86.8
105°	155.0	148.0	127.0	115.0	115.0	117.0	115.0	108.0	98.0	95.0	112.0
107.5°	151.6	148.6	151.2	152.4	157.2	155.8	151.6	138.8	124.8	122.2	137.2
110°	178.0	179.0	180.0	182.0	186.0	183.0	178.0	162.0	144.0	139.0	154.0

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	209.2	208.6	211.2	212.4	212.4	211.0	202.8	182.8	163.2	157.4	170.8
115°	253.0	255.0	256.0	257.0	256.0	254.0	239.0	217.0	193.0	183.0	195.0
117.5°	303.4	298.8	300.2	301.0	301.6	294.4	278.0	252.0	224.2	209.4	218.6
120°	333.0	330.0	329.0	329.0	328.0	320.0	302.0	276.0	245.0	227.0	233.0
122.5°	359.4	358.8	358.6	357.8	357.6	346.4	326.8	299.2	267.4	245.4	247.4
125°	402.0	403.0	400.0	396.0	395.0	385.0	364.0	335.0	301.0	273.0	270.0
127.5°	442.4	444.4	441.2	439.0	433.6	419.8	399.8	370.8	332.8	301.4	291.6
130°	468.0	470.0	466.0	463.0	456.0	443.0	423.0	394.0	356.0	319.0	306.0
132.5°	493.6	494.0	490.0	486.2	478.4	465.4	445.4	417.2	376.8	339.8	322.8
135°	529.0	530.0	525.0	520.0	508.0	498.0	479.0	451.0	410.0	371.0	348.0
137.5°	558.2	558.4	554.0	546.6	538.6	525.8	508.2	481.8	444.0	402.0	372.8
140°	575.0	576.0	570.0	565.0	557.0	545.0	529.0	501.0	464.0	422.0	392.0
142.5°	589.4	590.4	586.0	581.0	573.0	561.0	546.6	520.2	484.0	442.8	410.4
145°	609.0	612.0	608.0	603.0	596.0	585.0	570.0	546.0	513.0	473.0	437.0
147.5°	629.8	630.0	627.0	624.0	616.0	604.2	593.4	569.4	538.0	502.8	465.2
150°	641.0	642.0	639.0	636.0	628.0	617.0	607.0	583.0	554.0	522.0	486.0
152.5°	650.6	652.4	650.2	646.4	639.2	627.4	618.2	595.8	569.2	538.8	504.4
155°	664.0	667.0	665.0	661.0	653.0	642.0	633.0	614.0	589.0	562.0	531.0
157.5°	676.8	679.6	677.4	672.6	664.4	654.6	646.0	628.0	606.8	583.2	554.8
160°	684.0	686.0	683.0	679.0	670.0	661.0	654.0	636.0	618.0	596.0	570.0
162.5°	688.0	690.8	687.8	683.0	674.0	665.8	659.6	643.2	626.0	606.4	583.6
165°	693.0	694.0	692.0	688.0	678.0	671.0	666.0	653.0	637.0	621.0	603.0
167.5°	692.6	696.6	693.6	689.8	679.0	674.0	669.4	657.8	646.0	632.6	619.2
170°	691.0	695.0	692.0	689.0	679.0	674.0	671.0	661.0	650.0	639.0	628.0
172.5°	687.0	690.2	688.0	685.0	675.8	671.6	670.2	661.8	652.4	643.8	634.4
175°	676.0	680.0	679.0	676.0	668.0	666.0	667.0	661.0	655.0	650.0	643.0
177.5°	662.2	666.2	664.6	663.0	657.4	656.6	659.8	656.6	653.4	651.8	648.6
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2	2087.2
2.5°	2092.6	2086.4	2078.9	2079.1	2086.9	2092.3	2090.5	2088.8
5°	2091.9	2084.8	2076.4	2078.4	2090.8	2099.8	2098.5	2097.2
7.5°	2093.3	2088.1	2081.6	2083.1	2092.5	2099.1	2097.0	2095.0
10°	2096.1	2089.2	2079.8	2080.1	2089.8	2096.8	2095.5	2094.2
12.5°	2101.7	2092.4	2078.8	2075.8	2083.4	2088.4	2085.3	2082.2
15°	2103.4	2090.8	2071.7	2062.2	2062.2	2061.0	2056.6	2052.1
17.5°	2083.9	2066.8	2041.3	2025.1	2018.3	2011.8	2006.3	2000.9
20°	2059.0	2038.8	2009.0	1988.6	1977.4	1968.5	1966.3	1964.1
22.5°	2021.2	1999.6	1967.7	1945.6	1933.4	1923.4	1919.7	1916.1
25°	1943.3	1920.7	1888.3	1867.6	1858.7	1850.8	1845.9	1841.0
27.5°	1838.4	1816.6	1786.2	1765.9	1755.8	1746.5	1739.7	1733.0
30°	1752.5	1735.0	1711.0	1692.3	1678.9	1666.3	1655.6	1644.9
32.5°	1655.7	1640.2	1619.1	1602.2	1589.6	1577.9	1569.4	1560.9
35°	1486.1	1476.2	1463.3	1449.5	1434.8	1421.6	1412.7	1403.8
37.5°	1284.8	1277.4	1267.2	1256.3	1244.8	1233.8	1224.9	1215.9
40°	1142.4	1136.3	1127.9	1115.2	1098.3	1085.1	1082.8	1080.6
42.5°	994.4	989.0	977.4	965.0	952.1	939.7	929.3	918.9
45°	739.3	749.4	749.4	741.6	726.1	703.7	661.0	618.3
47.5°	463.9	494.2	519.2	508.6	462.3	414.7	362.8	311.0
50°	296.4	335.2	376.5	365.2	301.2	248.8	231.5	214.1
52.5°	197.8	234.3	277.8	272.5	218.5	175.6	166.4	157.3
55°	114.6	132.4	154.2	152.9	128.4	109.2	105.6	102.1
57.5°	73.2	81.0	89.6	89.6	81.0	73.2	67.6	62.0
60°	51.8	58.4	65.5	64.6	55.7	47.8	42.9	38.0
62.5°	40.5	45.6	51.6	51.1	44.0	38.2	36.5	34.8
65°	32.9	33.4	33.8	33.6	32.7	31.8	30.9	30.0
67.5°	29.1	28.9	28.6	28.4	28.3	28.0	27.2	26.4
70°	25.9	26.0	26.0	25.8	25.3	24.9	24.5	24.0
72.5°	23.5	23.3	23.0	22.8	22.7	22.4	21.6	20.8
75°	19.0	19.0	19.0	18.8	18.3	17.9	17.5	17.0
77.5°	15.3	15.1	14.6	14.4	14.4	14.3	13.9	13.4
80°	12.9	12.7	12.2	12.0	12.0	11.9	11.5	11.0
82.5°	9.8	9.7	9.6	9.6	9.6	9.5	9.0	8.6
85°	6.0	5.7	5.2	5.0	5.0	5.0	5.0	5.0
87.5°	3.7	4.3	5.0	5.8	6.6	7.0	7.4	7.6
90°	7.0	11.0	16.0	21.0	25.0	27.0	29.0	30.0
92.5°	18.2	24.6	32.0	37.8	44.2	48.6	50.6	50.8
95°	42.0	51.0	62.0	72.0	80.0	86.0	90.0	91.0
97.5°	64.6	81.4	93.6	105.2	116.8	124.0	128.6	129.2
100°	83.0	99.0	116.0	126.0	140.0	148.0	151.0	154.0
102.5°	103.0	116.6	135.2	150.0	163.2	170.4	176.6	179.6
105°	131.0	148.0	164.0	181.0	196.0	204.0	210.0	213.0
107.5°	157.6	178.4	194.4	211.0	224.2	234.0	241.2	244.2
110°	176.0	196.0	216.0	231.0	245.0	254.0	262.0	265.0

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	193.6	214.4	236.0	252.6	265.8	277.2	282.8	288.2
115°	218.0	241.0	263.0	284.0	298.0	306.0	311.0	315.0
117.5°	239.6	262.8	285.4	306.4	320.8	327.4	330.4	334.2
120°	254.0	278.0	299.0	320.0	336.0	345.0	348.0	351.0
122.5°	267.6	290.8	312.6	332.8	348.8	358.6	363.2	365.4
125°	286.0	309.0	331.0	351.0	365.0	377.0	383.0	385.0
127.5°	301.2	324.2	347.4	366.6	381.4	391.4	397.4	400.2
130°	314.0	333.0	357.0	377.0	391.0	401.0	407.0	409.0
132.5°	325.2	341.0	363.4	384.2	399.0	409.8	414.2	417.0
135°	345.0	353.0	372.0	394.0	410.0	419.0	424.0	427.0
137.5°	364.2	366.4	378.4	398.6	414.6	424.6	429.6	431.6
140°	377.0	376.0	384.0	401.0	417.0	427.0	432.0	434.0
142.5°	391.4	388.0	392.0	404.2	418.6	428.6	434.4	435.6
145°	415.0	406.0	403.0	410.0	421.0	430.0	435.0	436.0
147.5°	441.4	427.6	419.0	420.2	426.4	432.8	436.6	437.4
150°	459.0	442.0	431.0	429.0	432.0	436.0	439.0	439.0
152.5°	475.0	458.8	443.8	440.2	439.2	441.6	443.8	443.0
155°	503.0	483.0	466.0	460.0	455.0	454.0	453.0	452.0
157.5°	531.0	509.2	490.0	481.0	475.6	472.4	470.2	467.6
160°	547.0	526.0	506.0	497.0	490.0	486.0	483.0	482.0
162.5°	562.2	543.6	524.4	512.2	506.0	500.4	499.0	495.6
165°	584.0	569.0	548.0	536.0	531.0	527.0	524.0	520.0
167.5°	605.6	591.6	574.0	562.4	556.8	552.8	549.4	547.2
170°	616.0	606.0	590.0	580.0	576.0	572.0	567.0	564.0
172.5°	626.4	618.0	605.2	596.0	594.4	589.6	587.8	584.0
175°	639.0	634.0	624.0	619.0	619.0	617.0	617.0	612.0
177.5°	647.8	646.2	639.8	636.6	639.0	639.0	638.2	635.8
180°	651.0	651.0	651.0	651.0	651.0	651.0	651.0	651.0

(END OF REPORT)