

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: P709263

Luminaire Tested: DL2W-BB-M-050U-125D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709263
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-2, 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-050U-125D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1250 LUMENS PER FOOT
UPLIGHT 500 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6886.1 lumens
Efficiency: N/A
Efficacy: 106.4 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

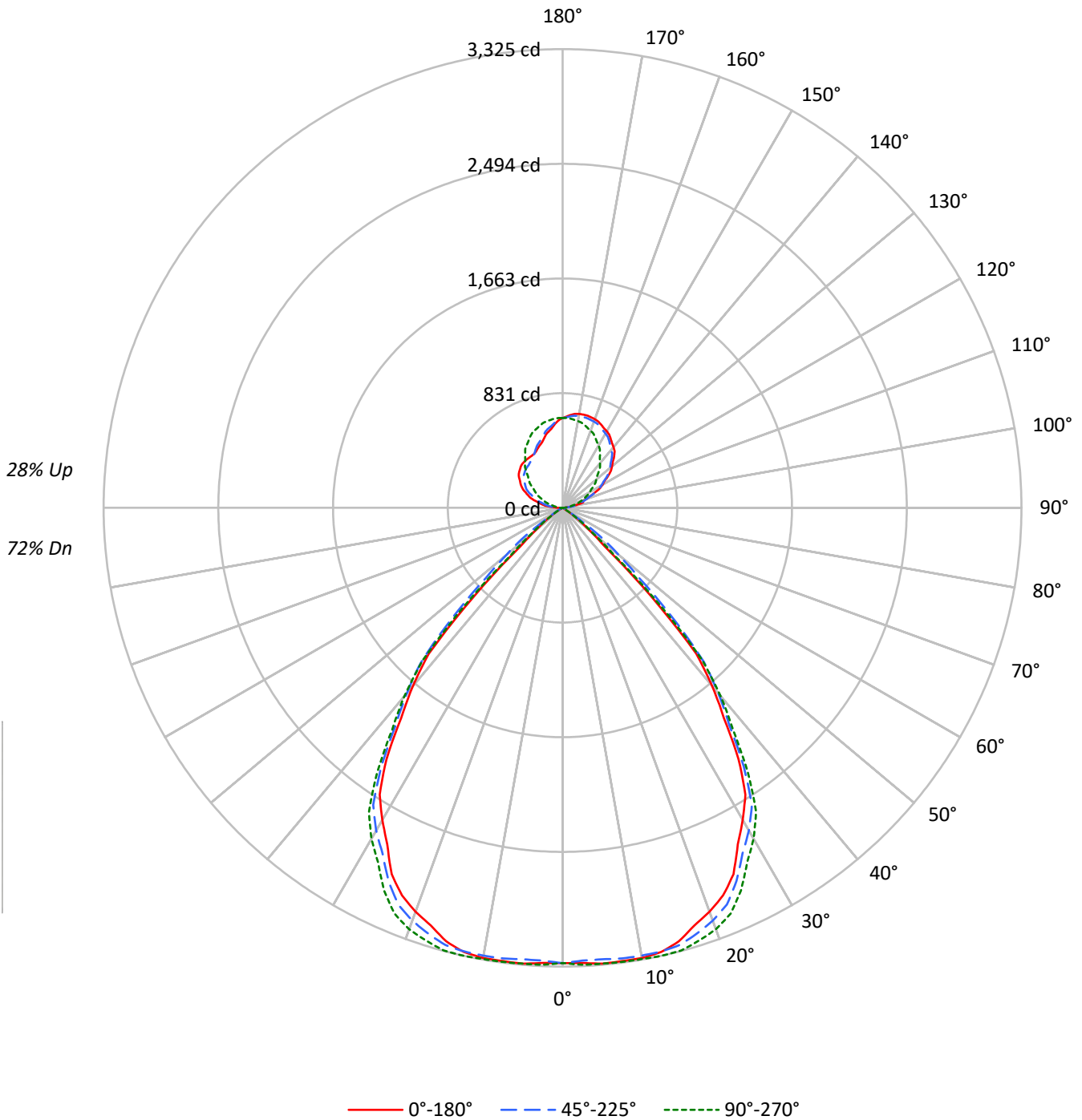
Input Watts (W): 64.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	112	112	112	112	107	107	107	107	96	96	96	86	86	86	77	77	77	72
1	106	102	99	97	100	97	95	92	88	86	85	80	79	77	72	71	70	67
2	99	93	88	84	94	89	85	81	81	78	75	74	71	69	67	66	64	61
3	92	85	79	74	88	81	76	72	74	70	67	68	65	62	63	60	58	55
4	86	77	71	66	82	74	68	64	68	64	60	63	59	56	58	55	53	50
5	80	70	64	59	77	68	62	57	63	58	54	58	54	51	54	51	48	46
6	75	65	58	53	72	62	56	51	58	53	49	54	50	46	50	47	44	42
7	70	60	53	48	67	57	51	47	54	48	44	50	46	42	47	43	40	38
8	66	55	48	43	63	53	47	42	50	44	41	46	42	39	43	40	37	35
9	62	51	44	40	59	49	43	39	46	41	37	43	39	36	41	37	34	32
10	58	47	41	36	56	46	40	36	43	38	34	40	36	33	38	34	32	30

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	53272	53272	53272	53272	53272
5°	53749	53229	53749	53229	53749
10°	54321	54033	54436	54033	54321
15°	54384	54836	55534	54836	54384
20°	53505	54703	55850	54703	53505
25°	52191	53145	54498	53145	52191
30°	48671	50341	51607	50341	48671
35°	43812	45116	46152	45116	43812
40°	35527	36990	37586	36990	35527
45°	20667	25860	22943	25860	20667
50°	6586	13348	7485	13348	6586
55°	2638	4649	2553	4649	2638
60°	65	1277	194	1277	65
65°	0	69	38	69	0
70°	0	42	0	42	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: 26069 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	315.8	4.6
10°-20°	927.2	13.5
20°-30°	1370.3	19.9
30°-40°	1408.2	20.5
40°-50°	813.4	11.8
50°-60°	140.7	2.0
60°-70°	5.3	0.1
70°-80°	0.1	0.0
80°-90°	3.5	0.1
90°-100°	52.0	0.8
100°-110°	151.3	2.2
110°-120°	246.7	3.6
120°-130°	313.2	4.5
130°-140°	335.0	4.9
140°-150°	312.8	4.5
150°-160°	257.5	3.7
160°-170°	172.7	2.5
170°-180°	61.3	0.9
0°-30°	2613.2	37.9
0°-40°	4021.4	58.4
0°-60°	4975.5	72.3
0°-90°	4984.3	72.4
90°-120°	450.0	6.5
90°-150°	1410.9	20.5
90°-180°	1903.0	27.6
0°-180°	6886.1	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3299	3299	3299	3299	3299	
5°	3316	3284	3316	3284	3316	316
15°	3254	3281	3322	3281	3254	914
25°	2930	2983	3059	2983	2930	1333
35°	2223	2289	2342	2289	2223	1363
45°	905	1133	1005	1133	905	704
55°	94	165	91	165	94	95
65°	0	2	1	2	0	1
75°	0	0	0	0	0	0
85°	0	0	0	0	0	1
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°	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4
2.5°	3301.8	3304.9	3308.1	3298.8	3285.4	3284.5	3296.2	3306.0	3310.3	3314.5	3310.3
5°	3316.3	3319.4	3322.5	3307.3	3286.1	3282.3	3296.0	3307.4	3311.9	3316.3	3311.9
7.5°	3313.3	3318.3	3323.2	3311.9	3295.2	3292.7	3304.5	3314.0	3316.8	3319.5	3316.8
10°	3313.3	3316.9	3320.4	3310.3	3295.7	3295.7	3310.3	3321.2	3320.7	3320.3	3320.7
12.5°	3298.2	3304.2	3310.2	3302.9	3291.1	3296.2	3318.3	3333.8	3329.4	3325.1	3329.4
15°	3253.5	3264.1	3274.8	3275.4	3272.8	3288.3	3322.0	3344.4	3333.4	3322.3	3333.4
17.5°	3174.6	3187.9	3201.1	3212.1	3222.3	3249.0	3292.3	3320.7	3304.7	3288.8	3304.7
20°	3114.0	3127.3	3140.5	3154.2	3167.9	3199.6	3249.2	3282.4	3266.5	3250.5	3266.5
22.5°	3040.6	3052.8	3065.1	3079.5	3094.6	3128.8	3181.9	3217.5	3200.1	3182.7	3200.1
25°	2929.6	2934.4	2939.3	2951.8	2966.9	2999.4	3049.5	3083.9	3071.5	3059.1	3071.5
27.5°	2749.3	2760.8	2772.2	2789.9	2809.6	2838.8	2877.5	2905.3	2900.9	2896.5	2900.9
30°	2610.6	2627.0	2643.4	2664.4	2687.0	2713.4	2743.5	2766.3	2767.2	2768.1	2767.2
32.5°	2465.5	2482.2	2498.9	2519.0	2540.2	2566.0	2596.5	2618.2	2613.8	2609.4	2613.8
35°	2222.8	2235.7	2248.5	2263.4	2278.9	2299.0	2323.8	2342.3	2341.9	2341.5	2341.9
37.5°	1921.6	1928.9	1936.1	1953.8	1974.9	1993.9	2011.0	2024.4	2026.6	2028.9	2026.6
40°	1685.6	1693.5	1701.5	1721.4	1745.4	1764.6	1779.3	1789.5	1786.4	1783.3	1786.4
42.5°	1435.2	1444.9	1454.7	1478.2	1506.4	1525.9	1536.6	1539.5	1519.0	1498.6	1519.0
45°	905.1	983.5	1061.9	1100.5	1125.7	1139.4	1141.7	1127.9	1066.3	1004.8	1066.3
47.5°	412.9	504.9	597.0	675.2	748.9	763.9	720.3	668.3	591.2	514.1	591.2
50°	262.2	288.3	314.4	407.0	521.8	541.0	464.8	395.5	346.8	298.0	346.8
52.5°	174.4	189.6	204.7	276.2	366.5	373.8	297.9	235.2	212.0	188.8	212.0
55°	93.7	98.1	102.6	129.9	164.9	165.4	131.2	104.0	97.4	90.7	97.4
57.5°	35.5	42.2	49.0	60.7	74.2	74.0	60.1	47.8	40.4	33.1	40.4
60°	2.0	7.3	12.6	24.6	38.8	40.3	29.2	19.3	12.6	6.0	12.6
62.5°	1.2	2.3	3.3	11.3	21.6	22.1	12.8	5.4	3.7	2.0	3.7
65°	0.0	0.4	0.9	1.3	1.8	1.8	1.3	1.0	1.0	1.0	1.0
67.5°	0.0	0.0	0.0	0.3	0.8	1.0	1.0	0.9	0.4	0.0	0.4
70°	0.0	0.0	0.0	0.3	0.8	1.0	1.0	0.9	0.4	0.0	0.4
72.5°	0.0	0.0	0.0	0.1	0.2	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°	2.8	2.8	2.8	2.8	2.6	2.6	2.2	1.6	1.0	0.4	1.0
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°	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4	3299.4
2.5°	3306.0	3296.2	3284.5	3285.4	3298.8	3308.1	3304.9	3301.8
5°	3307.4	3296.0	3282.3	3286.1	3307.3	3322.5	3319.4	3316.3
7.5°	3314.0	3304.5	3292.7	3295.2	3311.9	3323.2	3318.3	3313.3
10°	3321.2	3310.3	3295.7	3295.7	3310.3	3320.4	3316.9	3313.3
12.5°	3333.8	3318.3	3296.2	3291.1	3302.9	3310.2	3304.2	3298.2
15°	3344.4	3322.0	3288.3	3272.8	3275.4	3274.8	3264.1	3253.5
17.5°	3320.7	3292.3	3249.0	3222.3	3212.1	3201.1	3187.9	3174.6
20°	3282.4	3249.2	3199.6	3167.9	3154.2	3140.5	3127.3	3114.0
22.5°	3217.5	3181.9	3128.8	3094.6	3079.5	3065.1	3052.8	3040.6
25°	3083.9	3049.5	2999.4	2966.9	2951.8	2939.3	2934.4	2929.6
27.5°	2905.3	2877.5	2838.8	2809.6	2789.9	2772.2	2760.8	2749.3
30°	2766.3	2743.5	2713.4	2687.0	2664.4	2643.4	2627.0	2610.6
32.5°	2618.2	2596.5	2566.0	2540.2	2519.0	2498.9	2482.2	2465.5
35°	2342.3	2323.8	2299.0	2278.9	2263.4	2248.5	2235.7	2222.8
37.5°	2024.4	2011.0	1993.9	1974.9	1953.8	1936.1	1928.9	1921.6
40°	1789.5	1779.3	1764.6	1745.4	1721.4	1701.5	1693.5	1685.6
42.5°	1539.5	1536.6	1525.9	1506.4	1478.2	1454.7	1444.9	1435.2
45°	1127.9	1141.7	1139.4	1125.7	1100.5	1061.9	983.5	905.1
47.5°	668.3	720.3	763.9	748.9	675.2	597.0	504.9	412.9
50°	395.5	464.8	541.0	521.8	407.0	314.4	288.3	262.2
52.5°	235.2	297.9	373.8	366.5	276.2	204.7	189.6	174.4
55°	104.0	131.2	165.4	164.9	129.9	102.6	98.1	93.7
57.5°	47.8	60.1	74.0	74.2	60.7	49.0	42.2	35.5
60°	19.3	29.2	40.3	38.8	24.6	12.6	7.3	2.0
62.5°	5.4	12.8	22.1	21.6	11.3	3.3	2.3	1.2
65°	1.0	1.3	1.8	1.8	1.3	0.9	0.4	0.0
67.5°	0.9	1.0	1.0	0.8	0.3	0.0	0.0	0.0
70°	0.9	1.0	1.0	0.8	0.3	0.0	0.0	0.0
72.5°	0.2	0.2	0.2	0.2	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°	1.4	2.2	3.2	4.2	5.0	5.4	5.8	6.0
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

TEST NUMBER: P709263

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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)