

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: P709356

Luminaire Tested: DL2W-WB-M-075U-100D-935-UNV-STD-W-WM-4

Issue Date: 3/5/2020

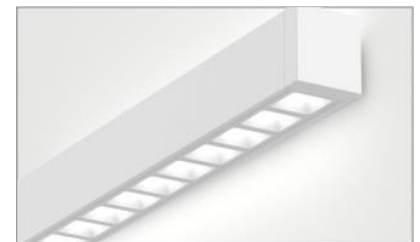
Test Information

Test Method: LM-79-2019
Report Number: P709356
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2303-941-3, G3-2104-222-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/5/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: DL2W-WB-M-075U-100D-935-UNV-STD-W-WM-4
Description: CORELITE DISCREET DL2W WALL MOUNT LED LUMINAIRE
DOWNLIGHT 1000 LUMENS PER FOOT
UPLIGHT 750 LUMENS PER FOOT
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7254.3 lumens
Efficiency: N/A
Efficacy: 117.6 lumens/watt
Spacing Criteria (0/90/45): 1.18 / 1.24 / 1.18
Luminous Opening: Rectangular (W 4' x L: 0.17' x H: 0')
CIE Type: Semi-Direct

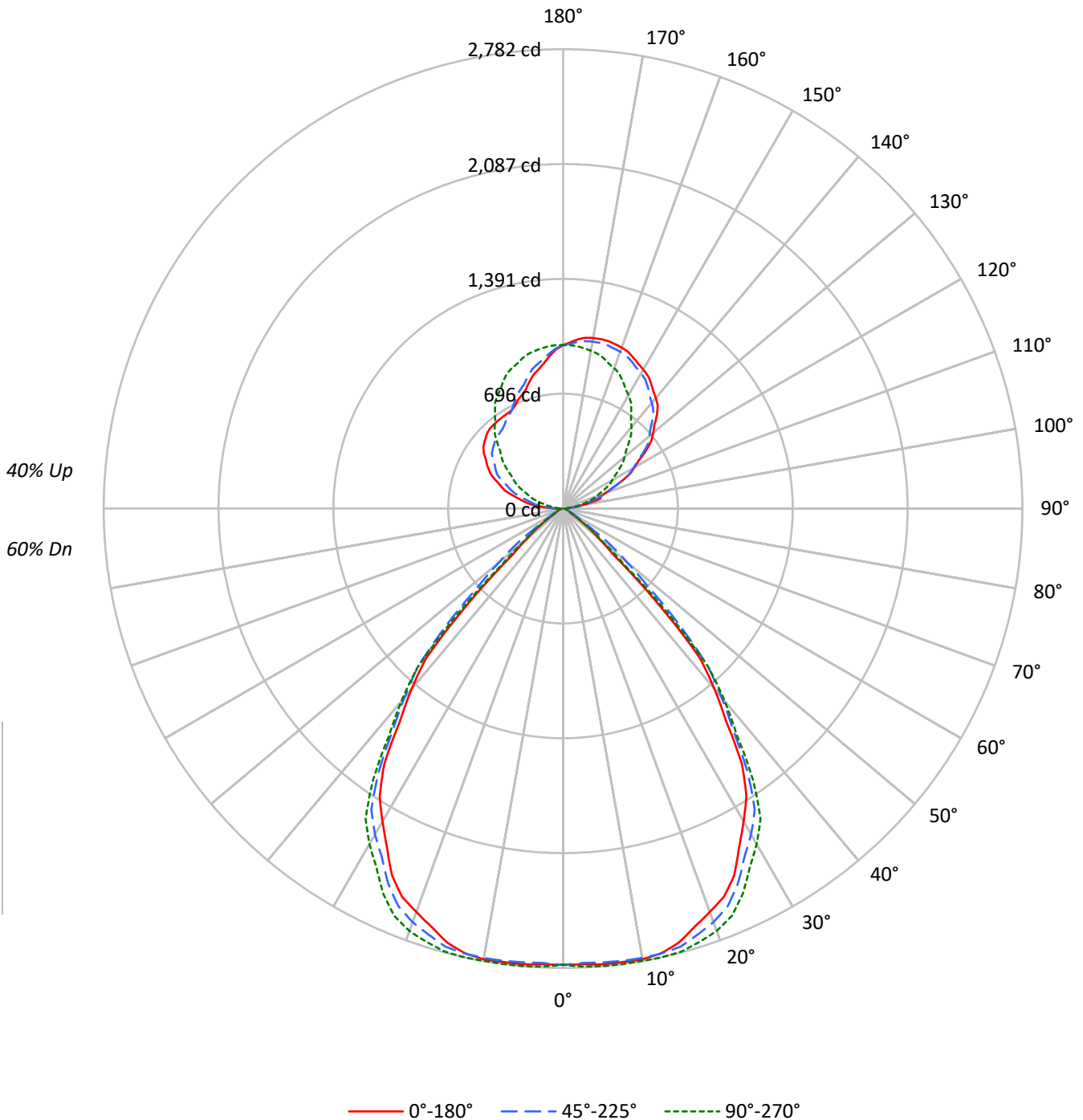
Input Watts (W): 61.7
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	110	110	110	110	102	102	102	102	89	89	89	77	77	77	65	65	65	60
1	102	99	95	93	96	93	90	87	81	79	77	71	69	68	61	60	59	55
2	95	89	84	79	89	84	79	75	74	71	68	65	63	61	57	55	54	50
3	88	80	74	69	83	76	70	66	67	63	60	60	57	54	52	50	48	45
4	82	73	66	61	77	69	63	58	62	57	53	55	51	48	48	46	44	41
5	76	66	59	54	72	63	56	52	56	51	48	50	47	44	45	42	40	37
6	71	60	53	48	67	57	51	46	52	47	43	46	43	40	42	39	36	34
7	66	55	48	43	62	53	46	42	48	43	39	43	39	36	39	35	33	31
8	62	51	44	39	58	48	42	38	44	39	35	40	36	33	36	33	30	28
9	58	47	40	35	55	45	39	34	41	36	32	37	33	30	34	30	28	26
10	55	43	37	32	51	42	35	31	38	33	29	35	30	28	31	28	26	24

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°	135°	180°
0°	44603	44603	44603	44603	44603
5°	44903	44704	45081	44704	44903
10°	45439	45293	45602	45293	45439
15°	45458	45911	46410	45911	45458
20°	44665	45782	46761	45782	44665
25°	43675	44648	45865	44648	43675
30°	40766	42456	43712	42456	40766
35°	37207	38409	39551	38409	37207
40°	30070	31493	32115	31493	30070
45°	18493	22761	20569	22761	18493
50°	7257	12636	8061	12636	7257
55°	3800	5754	3800	5754	3800
60°	1647	2827	1808	2827	1647
65°	1528	1706	1643	1706	1528
70°	1463	1610	1558	1610	1463
75°	1435	1560	1560	1560	1435
80°	1395	1497	1488	1497	1395
85°	1297	1315	1297	1315	1297

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 22989 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.6	3.6
10°-20°	775.5	10.7
20°-30°	1151.0	15.9
30°-40°	1195.5	16.5
40°-50°	719.4	9.9
50°-60°	172.3	2.4
60°-70°	46.7	0.6
70°-80°	26.2	0.4
80°-90°	12.3	0.2
90°-100°	78.8	1.1
100°-110°	229.8	3.2
110°-120°	375.0	5.2
120°-130°	475.8	6.6
130°-140°	509.1	7.0
140°-150°	475.4	6.6
150°-160°	391.2	5.4
160°-170°	262.4	3.6
170°-180°	93.2	1.3
0°-30°	2191.1	30.2
0°-40°	3386.6	46.7
0°-60°	4278.3	59.0
0°-90°	4363.6	60.2
90°-120°	683.5	9.4
90°-150°	2143.9	29.6
90°-180°	2891.0	39.9
0°-180°	7254.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	2762	2762	2762	2762	2762	
5°	2770	2758	2782	2758	2770	264
15°	2720	2747	2776	2747	2720	764
25°	2452	2506	2574	2506	2452	1116
35°	1888	1949	2007	1949	1888	1150
45°	810	997	901	997	810	627
55°	135	204	135	204	135	132
65°	40	45	43	45	40	40
75°	23	25	25	25	23	24
85°	7	7	7	7	7	8
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°	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5
2.5°	2762.5	2766.8	2771.0	2764.6	2754.7	2754.2	2763.0	2770.4	2773.3	2776.1	2773.3
5°	2770.5	2775.4	2780.3	2771.8	2759.0	2757.4	2767.2	2775.3	2778.4	2781.5	2778.4
7.5°	2769.9	2775.3	2780.7	2773.6	2762.2	2762.3	2774.0	2782.7	2782.5	2782.3	2782.5
10°	2771.5	2775.5	2779.5	2772.5	2761.8	2763.4	2777.2	2786.8	2784.2	2781.5	2784.2
12.5°	2757.1	2763.2	2769.4	2765.0	2757.2	2762.0	2779.3	2791.2	2786.7	2782.3	2786.7
15°	2719.5	2728.4	2737.3	2739.8	2740.3	2753.0	2777.8	2794.3	2785.4	2776.5	2785.4
17.5°	2653.9	2664.4	2674.9	2685.1	2695.1	2717.0	2750.6	2773.1	2762.1	2751.1	2762.1
20°	2599.5	2611.1	2622.6	2636.5	2651.2	2677.9	2716.5	2742.8	2732.2	2721.5	2732.2
22.5°	2545.1	2553.5	2561.9	2575.7	2591.5	2620.6	2663.2	2692.4	2681.3	2670.3	2681.3
25°	2451.6	2458.2	2464.9	2477.6	2492.2	2520.2	2561.5	2590.5	2582.5	2574.5	2582.5
27.5°	2309.8	2321.2	2332.5	2348.1	2365.1	2391.5	2427.4	2453.7	2451.1	2448.6	2451.1
30°	2186.6	2206.2	2225.7	2244.9	2264.0	2290.5	2324.3	2349.0	2346.8	2344.6	2346.8
32.5°	2066.6	2086.9	2107.2	2127.9	2148.8	2172.0	2197.6	2217.8	2221.6	2225.4	2221.6
35°	1887.7	1897.4	1907.2	1922.7	1940.0	1957.3	1974.6	1989.8	1998.2	2006.6	1998.2
37.5°	1622.7	1634.4	1646.2	1664.7	1685.5	1702.3	1715.0	1725.0	1727.2	1729.3	1727.2
40°	1426.7	1441.0	1455.2	1470.1	1485.2	1503.2	1524.1	1537.9	1530.8	1523.7	1530.8
42.5°	1226.0	1238.1	1250.2	1269.3	1290.8	1310.8	1329.2	1338.6	1321.2	1303.8	1321.2
45°	809.9	874.7	939.6	970.8	990.8	1002.8	1006.8	997.7	949.3	900.8	949.3
47.5°	415.3	481.7	548.1	615.0	682.1	698.4	663.9	622.8	561.9	500.9	561.9
50°	288.9	311.6	334.3	406.3	494.7	511.4	456.3	404.5	362.7	320.9	362.7
52.5°	213.0	225.3	237.7	293.2	363.2	371.1	317.1	270.8	247.9	225.0	247.9
55°	135.0	140.3	145.6	171.3	203.7	205.1	175.3	151.0	143.0	135.0	143.0
57.5°	79.8	88.2	96.7	107.5	119.2	119.2	107.6	97.0	89.3	81.6	89.3
60°	51.0	57.7	64.3	75.0	87.0	88.1	78.3	69.3	62.7	56.0	62.7
62.5°	46.2	48.6	51.0	58.5	67.6	68.2	60.2	53.6	51.2	48.8	51.2
65°	40.0	41.3	42.7	43.7	44.5	44.8	44.3	43.9	43.4	43.0	43.4
67.5°	35.0	36.0	36.9	37.5	37.8	38.2	38.7	38.8	37.9	37.0	37.9
70°	31.0	32.3	33.7	34.0	34.0	34.2	34.7	34.8	33.9	33.0	33.9
72.5°	27.8	28.8	29.8	30.3	30.6	31.0	31.5	31.6	30.7	29.8	30.7
75°	23.0	23.4	23.9	24.3	24.8	25.2	25.7	25.9	25.4	25.0	25.4
77.5°	18.2	18.6	19.1	19.5	19.8	20.0	20.1	20.1	19.6	19.2	19.6
80°	15.0	15.4	15.9	16.0	16.0	16.2	16.7	16.9	16.4	16.0	16.4
82.5°	11.8	11.9	12.0	12.3	12.6	12.8	12.9	13.0	12.9	12.8	12.9
85°	7.0	7.0	7.0	7.0	7.0	7.2	7.7	7.9	7.4	7.0	7.4
87.5°	6.8	6.8	6.6	6.4	6.4	6.2	5.6	4.8	3.8	3.0	3.8
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°	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5	2762.5
2.5°	2770.4	2763.0	2754.2	2754.7	2764.6	2771.0	2766.8	2762.5
5°	2775.3	2767.2	2757.4	2759.0	2771.8	2780.3	2775.4	2770.5
7.5°	2782.7	2774.0	2762.3	2762.2	2773.6	2780.7	2775.3	2769.9
10°	2786.8	2777.2	2763.4	2761.8	2772.5	2779.5	2775.5	2771.5
12.5°	2791.2	2779.3	2762.0	2757.2	2765.0	2769.4	2763.2	2757.1
15°	2794.3	2777.8	2753.0	2740.3	2739.8	2737.3	2728.4	2719.5
17.5°	2773.1	2750.6	2717.0	2695.1	2685.1	2674.9	2664.4	2653.9
20°	2742.8	2716.5	2677.9	2651.2	2636.5	2622.6	2611.1	2599.5
22.5°	2692.4	2663.2	2620.6	2591.5	2575.7	2561.9	2553.5	2545.1
25°	2590.5	2561.5	2520.2	2492.2	2477.6	2464.9	2458.2	2451.6
27.5°	2453.7	2427.4	2391.5	2365.1	2348.1	2332.5	2321.2	2309.8
30°	2349.0	2324.3	2290.5	2264.0	2244.9	2225.7	2206.2	2186.6
32.5°	2217.8	2197.6	2172.0	2148.8	2127.9	2107.2	2086.9	2066.6
35°	1989.8	1974.6	1957.3	1940.0	1922.7	1907.2	1897.4	1887.7
37.5°	1725.0	1715.0	1702.3	1685.5	1664.7	1646.2	1634.4	1622.7
40°	1537.9	1524.1	1503.2	1485.2	1470.1	1455.2	1441.0	1426.7
42.5°	1338.6	1329.2	1310.8	1290.8	1269.3	1250.2	1238.1	1226.0
45°	997.7	1006.8	1002.8	990.8	970.8	939.6	874.7	809.9
47.5°	622.8	663.9	698.4	682.1	615.0	548.1	481.7	415.3
50°	404.5	456.3	511.4	494.7	406.3	334.3	311.6	288.9
52.5°	270.8	317.1	371.1	363.2	293.2	237.7	225.3	213.0
55°	151.0	175.3	205.1	203.7	171.3	145.6	140.3	135.0
57.5°	97.0	107.6	119.2	119.2	107.5	96.7	88.2	79.8
60°	69.3	78.3	88.1	87.0	75.0	64.3	57.7	51.0
62.5°	53.6	60.2	68.2	67.6	58.5	51.0	48.6	46.2
65°	43.9	44.3	44.8	44.5	43.7	42.7	41.3	40.0
67.5°	38.8	38.7	38.2	37.8	37.5	36.9	36.0	35.0
70°	34.8	34.7	34.2	34.0	34.0	33.7	32.3	31.0
72.5°	31.6	31.5	31.0	30.6	30.3	29.8	28.8	27.8
75°	25.9	25.7	25.2	24.8	24.3	23.9	23.4	23.0
77.5°	20.1	20.1	20.0	19.8	19.5	19.1	18.6	18.2
80°	16.9	16.7	16.2	16.0	16.0	15.9	15.4	15.0
82.5°	13.0	12.9	12.8	12.6	12.3	12.0	11.9	11.8
85°	7.9	7.7	7.2	7.0	7.0	7.0	7.0	7.0
87.5°	4.6	6.0	7.0	8.4	9.8	10.6	11.4	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

TEST NUMBER: P709356

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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)