

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: P709360

Luminaire Tested: DL2W-WB-M-075U-125D-940-UNV-STD-W-WM-4

Issue Date: 3/5/2020

Test Information

Test Method: LM-79-2019
Report Number: P709360
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-940-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: 8812.3 lumens
Efficiency: N/A
Efficacy: 120.2 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

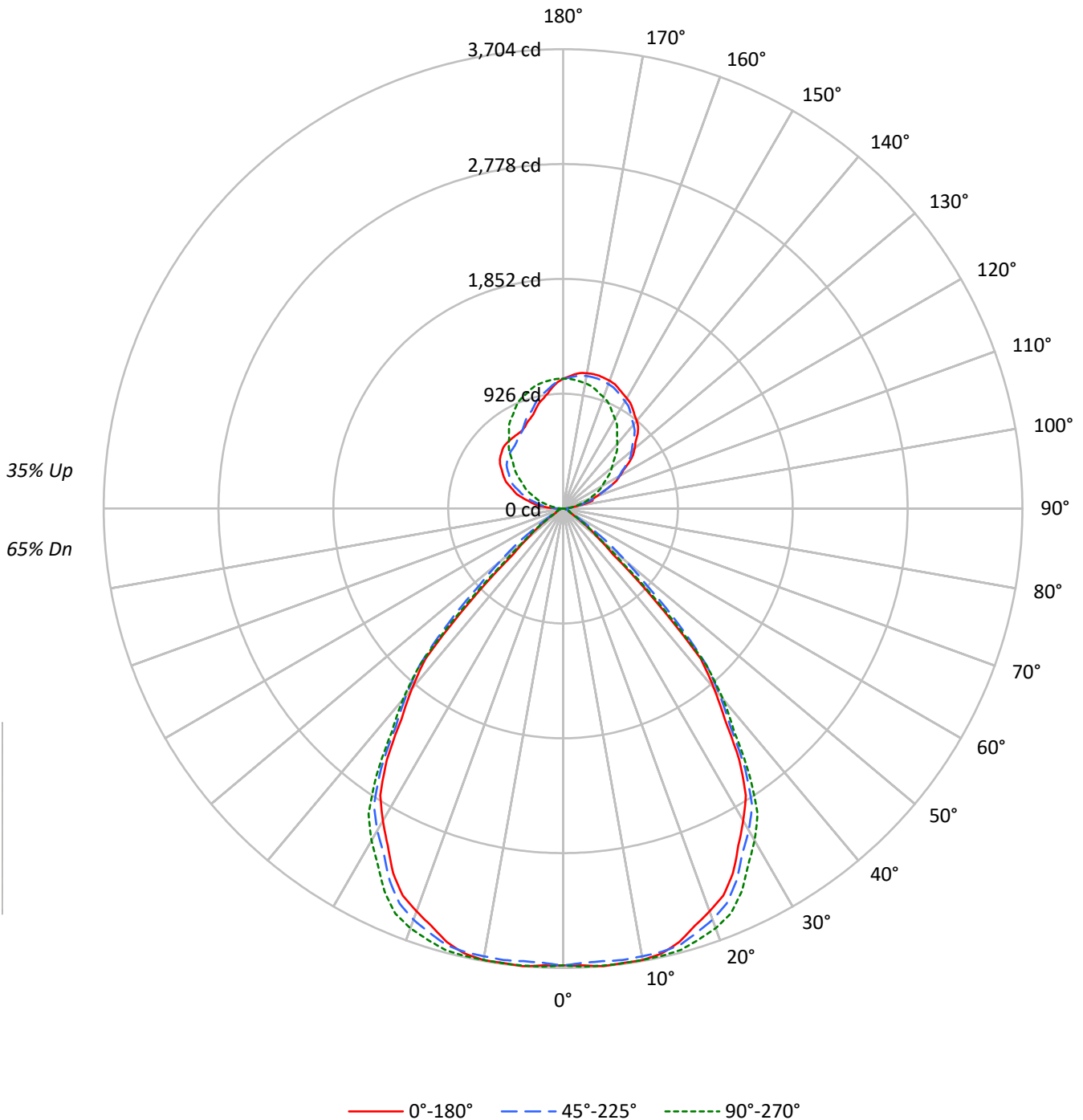
Input Watts (W): 73.3
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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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	85	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°	59473	59473	59473	59473	59473
5°	60026	59373	59940	59373	60026
10°	60599	60096	60581	60096	60599
15°	60495	60887	61553	60887	60495
20°	59369	60596	61855	60596	59369
25°	57774	58945	60690	58945	57774
30°	54178	55849	57586	55849	54178
35°	48846	50424	51637	50424	48846
40°	39943	41454	42392	41454	39943
45°	24048	29938	26508	29938	24048
50°	9367	16631	10482	16631	9367
55°	5025	7537	5084	7537	5025
60°	2183	3726	2386	3726	2183
65°	2059	2279	2139	2279	2059
70°	1945	2146	2096	2146	1945
75°	1847	2049	2040	2049	1847
80°	1767	1976	1962	1976	1767
85°	1760	1778	1760	1778	1760

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 60°
 Vertical Angle: 45°
 Luminance: 30150 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	352.0	4.0
10°-20°	1028.8	11.7
20°-30°	1520.9	17.3
30°-40°	1571.5	17.8
40°-50°	945.6	10.7
50°-60°	227.0	2.6
60°-70°	62.0	0.7
70°-80°	34.6	0.4
80°-90°	15.2	0.2
90°-100°	83.3	0.9
100°-110°	242.8	2.8
110°-120°	396.3	4.5
120°-130°	502.8	5.7
130°-140°	538.1	6.1
140°-150°	502.4	5.7
150°-160°	413.4	4.7
160°-170°	277.3	3.1
170°-180°	98.4	1.1
0°-30°	2901.6	32.9
0°-40°	4473.1	50.8
0°-60°	5645.7	64.1
0°-90°	5757.5	65.3
90°-120°	722.4	8.2
90°-150°	2265.7	25.7
90°-180°	3055.0	34.7
0°-180°	8812.3	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	3684	3684	3684	3684	3684	
5°	3704	3663	3698	3663	3704	353
15°	3619	3643	3682	3643	3619	1016
25°	3243	3309	3407	3309	3243	1480
35°	2478	2558	2620	2558	2478	1520
45°	1053	1311	1161	1311	1053	828
55°	178	268	181	268	178	174
65°	54	60	56	60	54	53
75°	30	33	33	33	30	32
85°	10	10	10	10	10	10
90°	23	21	3	28	45	11
95°	24	32	33	106	143	41
105°	247	186	154	276	340	231
115°	410	411	296	439	505	405
125°	650	629	438	547	619	576
135°	851	810	595	615	686	652
145°	981	947	760	654	701	613
155°	1065	1039	902	742	727	492
165°	1111	1084	998	872	837	314
175°	1088	1071	1043	997	982	104
180°	1046	1046	1046	1046	1046	

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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5
2.5°	3686.9	3689.5	3692.1	3681.5	3666.5	3665.4	3678.1	3688.8	3692.9	3697.0	3692.9
5°	3703.6	3704.5	3705.4	3688.4	3665.4	3661.2	3675.7	3688.0	3693.1	3698.3	3693.1
7.5°	3695.3	3699.0	3702.7	3690.3	3672.5	3669.8	3682.2	3692.2	3694.9	3697.7	3694.9
10°	3696.2	3697.6	3699.0	3684.9	3665.7	3665.4	3684.2	3697.9	3696.5	3695.1	3696.5
12.5°	3674.2	3677.9	3681.5	3672.2	3658.6	3664.2	3689.0	3706.0	3699.7	3693.4	3699.7
15°	3619.1	3626.1	3633.1	3634.6	3634.1	3651.0	3685.3	3707.8	3695.1	3682.4	3695.1
17.5°	3528.0	3536.9	3545.8	3557.7	3570.6	3599.2	3643.6	3673.1	3657.7	3642.3	3657.7
20°	3455.3	3464.2	3473.2	3489.8	3509.1	3544.3	3595.5	3630.1	3615.1	3600.0	3615.1
22.5°	3376.7	3384.1	3391.6	3408.1	3427.8	3466.0	3522.8	3561.9	3548.0	3534.1	3548.0
25°	3243.0	3247.2	3251.4	3268.0	3288.7	3328.8	3388.4	3430.2	3418.5	3406.7	3418.5
27.5°	3061.5	3068.7	3076.0	3092.9	3113.1	3150.5	3205.2	3244.9	3239.9	3235.0	3239.9
30°	2906.0	2919.6	2933.3	2954.6	2978.6	3012.6	3056.7	3089.7	3089.2	3088.8	3089.2
32.5°	2742.9	2759.9	2776.9	2799.1	2823.1	2852.0	2886.0	2912.3	2915.6	2918.9	2915.6
35°	2478.2	2491.8	2505.4	2525.0	2546.6	2569.9	2594.8	2614.1	2616.9	2619.8	2616.9
37.5°	2141.0	2154.7	2168.4	2185.8	2204.4	2225.6	2249.3	2267.3	2267.7	2268.2	2267.7
40°	1895.1	1903.5	1912.0	1931.7	1955.2	1978.4	2001.4	2017.9	2014.6	2011.3	2014.6
42.5°	1643.3	1648.7	1654.2	1674.8	1700.5	1723.4	1743.4	1752.3	1728.0	1703.7	1728.0
45°	1053.2	1141.0	1228.8	1273.3	1303.3	1319.0	1320.4	1303.7	1232.3	1160.9	1232.3
47.5°	545.3	631.3	717.3	808.8	902.1	924.0	874.4	818.0	741.0	664.0	741.0
50°	372.9	406.7	440.5	535.6	651.1	673.1	601.8	533.7	475.5	417.3	475.5
52.5°	278.2	294.8	311.3	385.1	478.1	488.2	415.3	353.5	325.0	296.4	325.0
55°	178.5	185.6	192.6	225.4	266.7	268.8	231.7	201.3	191.0	180.6	191.0
57.5°	109.9	119.1	128.3	142.5	158.5	158.6	143.0	128.8	119.1	109.4	119.1
60°	67.6	76.1	84.5	98.6	114.6	116.2	103.5	91.8	82.9	73.9	82.9
62.5°	60.8	64.0	67.2	77.5	90.0	91.1	80.7	72.1	68.8	65.5	68.8
65°	53.9	54.8	55.8	57.4	59.3	60.0	59.5	58.8	57.4	56.0	57.4
67.5°	46.3	47.7	49.1	49.8	50.3	50.7	51.2	51.3	50.4	49.4	50.4
70°	41.2	42.6	44.0	44.7	45.2	45.7	46.1	46.2	45.3	44.4	45.3
72.5°	37.0	38.0	39.0	39.6	40.1	40.6	41.1	41.2	40.2	39.3	40.2
75°	29.6	30.5	31.5	32.0	32.5	33.2	34.2	34.6	33.7	32.7	33.7
77.5°	23.2	24.2	25.1	25.6	26.0	26.4	26.9	27.0	26.2	25.4	26.2
80°	19.0	20.0	20.9	21.1	21.1	21.4	21.8	22.1	21.6	21.1	21.6
82.5°	14.8	15.4	15.9	16.1	16.1	16.3	16.8	17.1	17.0	16.9	17.0
85°	9.5	9.5	9.5	9.5	9.5	9.7	10.2	10.4	10.0	9.5	10.0
87.5°	7.2	7.6	7.7	7.6	7.6	7.4	6.8	5.9	4.9	4.0	4.9
90°	23.2	23.2	22.2	21.1	21.1	20.1	16.9	12.7	7.4	3.2	7.4
92.5°	27.5	27.5	26.4	26.2	24.5	22.6	18.6	18.6	18.4	11.6	20.1
95°	24.3	24.3	24.3	24.3	28.5	35.9	52.8	53.9	35.9	32.8	46.5
97.5°	55.6	58.8	65.7	78.2	96.0	99.3	94.1	70.2	67.2	62.6	85.2
100°	113.1	116.2	121.5	137.4	150.1	124.7	98.3	97.2	90.9	88.8	113.1
102.5°	185.8	186.4	190.0	194.9	150.9	136.5	130.4	126.0	116.2	115.0	139.3
105°	247.3	239.9	206.1	184.9	186.0	186.0	181.8	173.3	155.4	154.3	181.8
107.5°	242.0	241.2	242.4	245.6	251.1	249.8	245.0	222.4	201.2	196.4	221.1
110°	288.5	288.5	290.6	293.8	295.9	293.8	286.4	257.9	232.5	225.1	247.3

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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	336.7	335.0	337.1	339.4	344.1	337.8	325.3	292.5	263.8	253.0	275.2
115°	410.0	410.0	411.1	411.1	412.2	409.0	383.6	349.8	311.8	295.9	314.9
117.5°	484.7	482.5	483.8	485.1	480.9	472.4	443.0	403.7	361.0	335.6	350.7
120°	529.5	531.6	529.5	531.6	527.4	514.7	486.1	441.7	393.1	363.5	375.2
122.5°	576.0	577.2	576.8	576.4	571.3	556.9	523.3	477.3	429.5	393.1	398.0
125°	649.9	644.7	642.5	641.5	637.3	620.4	585.5	537.9	481.9	437.5	431.2
127.5°	711.9	709.5	705.1	702.8	696.2	675.7	640.0	594.1	532.6	482.3	468.2
130°	752.5	753.5	748.2	745.1	733.4	711.2	676.4	633.0	570.7	513.6	493.5
132.5°	793.0	791.6	789.7	780.6	770.6	746.7	714.4	669.4	606.2	546.6	518.9
135°	850.7	847.6	842.3	833.8	821.1	797.9	767.2	722.9	659.5	595.0	556.9
137.5°	896.6	894.1	888.6	879.7	865.3	845.2	814.4	774.9	714.0	645.9	597.9
140°	923.7	923.7	917.3	906.7	894.1	874.0	846.5	805.3	746.1	680.6	626.7
142.5°	948.2	948.2	941.0	933.0	919.4	901.0	876.9	835.7	778.2	713.6	656.3
145°	980.7	980.7	976.5	970.2	955.4	938.5	918.4	877.2	824.3	759.9	702.8
147.5°	1009.5	1011.8	1006.5	1001.4	989.8	969.9	953.0	913.5	865.3	808.3	749.7
150°	1027.2	1030.4	1025.1	1020.9	1009.3	990.2	973.3	936.3	889.8	837.0	781.0
152.5°	1044.1	1046.5	1042.9	1038.6	1025.3	1006.3	991.9	957.5	915.2	864.9	808.0
155°	1065.3	1070.6	1066.3	1061.0	1048.4	1030.4	1017.7	986.0	946.9	902.5	853.9
157.5°	1086.8	1089.2	1084.9	1078.4	1066.5	1051.1	1037.6	1008.4	974.4	936.1	893.6
160°	1097.0	1100.1	1095.9	1088.5	1075.8	1062.1	1049.4	1021.9	991.3	956.4	917.3
162.5°	1103.7	1107.8	1103.5	1097.0	1081.8	1069.7	1058.7	1033.8	1004.8	973.3	938.5
165°	1110.7	1114.9	1111.8	1104.4	1088.5	1079.0	1069.5	1048.4	1023.0	997.6	968.0
167.5°	1111.1	1116.4	1112.4	1106.3	1090.4	1081.1	1074.1	1056.0	1035.5	1016.0	993.0
170°	1108.6	1113.9	1110.7	1105.4	1089.6	1081.1	1075.8	1061.0	1043.1	1026.2	1008.2
172.5°	1102.7	1107.1	1104.8	1099.5	1084.5	1077.7	1075.0	1061.9	1047.3	1034.6	1019.2
175°	1087.5	1093.8	1089.6	1085.4	1072.7	1068.4	1069.5	1061.0	1050.5	1043.1	1033.6
177.5°	1064.8	1068.2	1067.4	1064.8	1055.5	1055.5	1058.9	1053.9	1050.5	1047.1	1042.9
180°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5	3683.5
2.5°	3688.8	3678.1	3665.4	3666.5	3681.5	3692.1	3689.5	3686.9
5°	3688.0	3675.7	3661.2	3665.4	3688.4	3705.4	3704.5	3703.6
7.5°	3692.2	3682.2	3669.8	3672.5	3690.3	3702.7	3699.0	3695.3
10°	3697.9	3684.2	3665.4	3665.7	3684.9	3699.0	3697.6	3696.2
12.5°	3706.0	3689.0	3664.2	3658.6	3672.2	3681.5	3677.9	3674.2
15°	3707.8	3685.3	3651.0	3634.1	3634.6	3633.1	3626.1	3619.1
17.5°	3673.1	3643.6	3599.2	3570.6	3557.7	3545.8	3536.9	3528.0
20°	3630.1	3595.5	3544.3	3509.1	3489.8	3473.2	3464.2	3455.3
22.5°	3561.9	3522.8	3466.0	3427.8	3408.1	3391.6	3384.1	3376.7
25°	3430.2	3388.4	3328.8	3288.7	3268.0	3251.4	3247.2	3243.0
27.5°	3244.9	3205.2	3150.5	3113.1	3092.9	3076.0	3068.7	3061.5
30°	3089.7	3056.7	3012.6	2978.6	2954.6	2933.3	2919.6	2906.0
32.5°	2912.3	2886.0	2852.0	2823.1	2799.1	2776.9	2759.9	2742.9
35°	2614.1	2594.8	2569.9	2546.6	2525.0	2505.4	2491.8	2478.2
37.5°	2267.3	2249.3	2225.6	2204.4	2185.8	2168.4	2154.7	2141.0
40°	2017.9	2001.4	1978.4	1955.2	1931.7	1912.0	1903.5	1895.1
42.5°	1752.3	1743.4	1723.4	1700.5	1674.8	1654.2	1648.7	1643.3
45°	1303.7	1320.4	1319.0	1303.3	1273.3	1228.8	1141.0	1053.2
47.5°	818.0	874.4	924.0	902.1	808.8	717.3	631.3	545.3
50°	533.7	601.8	673.1	651.1	535.6	440.5	406.7	372.9
52.5°	353.5	415.3	488.2	478.1	385.1	311.3	294.8	278.2
55°	201.3	231.7	268.8	266.7	225.4	192.6	185.6	178.5
57.5°	128.8	143.0	158.6	158.5	142.5	128.3	119.1	109.9
60°	91.8	103.5	116.2	114.6	98.6	84.5	76.1	67.6
62.5°	72.1	80.7	91.1	90.0	77.5	67.2	64.0	60.8
65°	58.8	59.5	60.0	59.3	57.4	55.8	54.8	53.9
67.5°	51.3	51.2	50.7	50.3	49.8	49.1	47.7	46.3
70°	46.2	46.1	45.7	45.2	44.7	44.0	42.6	41.2
72.5°	41.2	41.1	40.6	40.1	39.6	39.0	38.0	37.0
75°	34.6	34.2	33.2	32.5	32.0	31.5	30.5	29.6
77.5°	27.0	26.9	26.4	26.0	25.6	25.1	24.2	23.2
80°	22.1	21.8	21.4	21.1	21.1	20.9	20.0	19.0
82.5°	17.1	16.8	16.3	16.1	16.1	15.9	15.4	14.8
85°	10.4	10.2	9.7	9.5	9.5	9.5	9.5	9.5
87.5°	5.7	7.2	8.2	9.7	11.2	12.0	12.4	11.6
90°	11.6	19.0	24.3	31.7	39.1	43.3	47.6	45.4
92.5°	28.5	41.0	48.8	61.3	70.4	78.0	81.4	81.0
95°	65.5	82.4	98.3	113.1	127.9	138.4	144.8	142.7
97.5°	104.0	131.3	151.5	171.4	187.9	197.8	204.2	208.4
100°	131.0	157.5	187.1	206.1	225.1	236.7	247.3	251.5
102.5°	164.0	186.2	215.8	240.7	261.5	273.9	282.8	287.0
105°	210.3	237.8	263.1	289.6	311.8	327.6	337.1	340.3
107.5°	255.3	285.6	310.5	337.8	358.3	375.8	387.4	394.2
110°	283.2	316.0	347.7	369.9	392.1	407.9	419.6	423.8

TEST NUMBER: P709360

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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	312.0	345.6	379.0	403.7	425.9	441.7	455.1	461.0
115°	348.7	385.7	422.7	455.5	475.6	490.4	499.9	505.2
117.5°	386.4	424.4	459.1	493.3	515.3	526.7	531.2	535.0
120°	410.0	448.1	481.9	513.6	539.0	553.8	559.1	561.2
122.5°	430.3	467.5	503.0	533.1	557.6	575.8	584.4	586.5
125°	458.7	496.7	532.6	561.2	586.5	604.5	614.0	619.3
127.5°	485.5	520.4	558.4	589.3	612.5	628.8	638.1	642.3
130°	504.1	534.7	572.8	604.5	627.7	645.7	654.2	658.4
132.5°	523.5	547.4	583.8	617.2	641.3	657.6	666.9	671.1
135°	552.7	566.5	597.1	632.0	657.3	673.2	681.6	685.9
137.5°	583.8	589.1	608.7	640.4	666.9	683.5	691.2	693.9
140°	606.6	603.4	617.2	644.7	671.1	686.9	695.4	696.4
142.5°	630.3	622.9	628.2	649.7	672.8	688.6	697.1	699.0
145°	669.0	653.1	647.8	660.5	676.4	691.2	698.6	700.7
147.5°	707.9	687.4	672.6	676.6	684.8	694.5	701.7	703.2
150°	736.6	710.2	691.2	690.1	693.3	699.6	706.0	704.9
152.5°	763.7	736.4	712.3	706.2	706.0	708.9	711.9	711.7
155°	807.4	776.8	748.2	736.6	730.3	728.1	728.1	727.1
157.5°	849.3	818.0	787.8	771.5	762.0	756.9	755.4	753.1
160°	877.2	843.3	814.8	796.8	787.3	778.9	775.7	772.5
162.5°	903.4	872.1	840.2	823.0	812.7	805.1	801.9	797.1
165°	939.5	914.1	881.4	863.4	851.8	845.5	841.2	837.0
167.5°	970.6	949.4	922.6	902.9	895.3	888.1	884.1	876.5
170°	989.2	972.3	948.0	930.0	925.8	919.4	912.0	903.6
172.5°	1005.2	991.7	969.9	957.9	953.7	947.3	945.0	938.2
175°	1025.1	1017.7	1001.9	992.4	992.4	991.3	988.1	981.8
177.5°	1040.3	1037.8	1028.5	1023.4	1026.8	1026.8	1026.0	1020.0
180°	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2	1046.2

(END OF REPORT)