

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: INVUE

Report Number: P148785

Luminaire Tested: **VWM-F01-LED-E1-RW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148785
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-F01-LED-E1-RW
Description: VISION WALL MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2578.9 lumens
Efficiency: N/A
Efficacy: 99.6 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.9
Input Voltage (V): NR
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: 25 FT

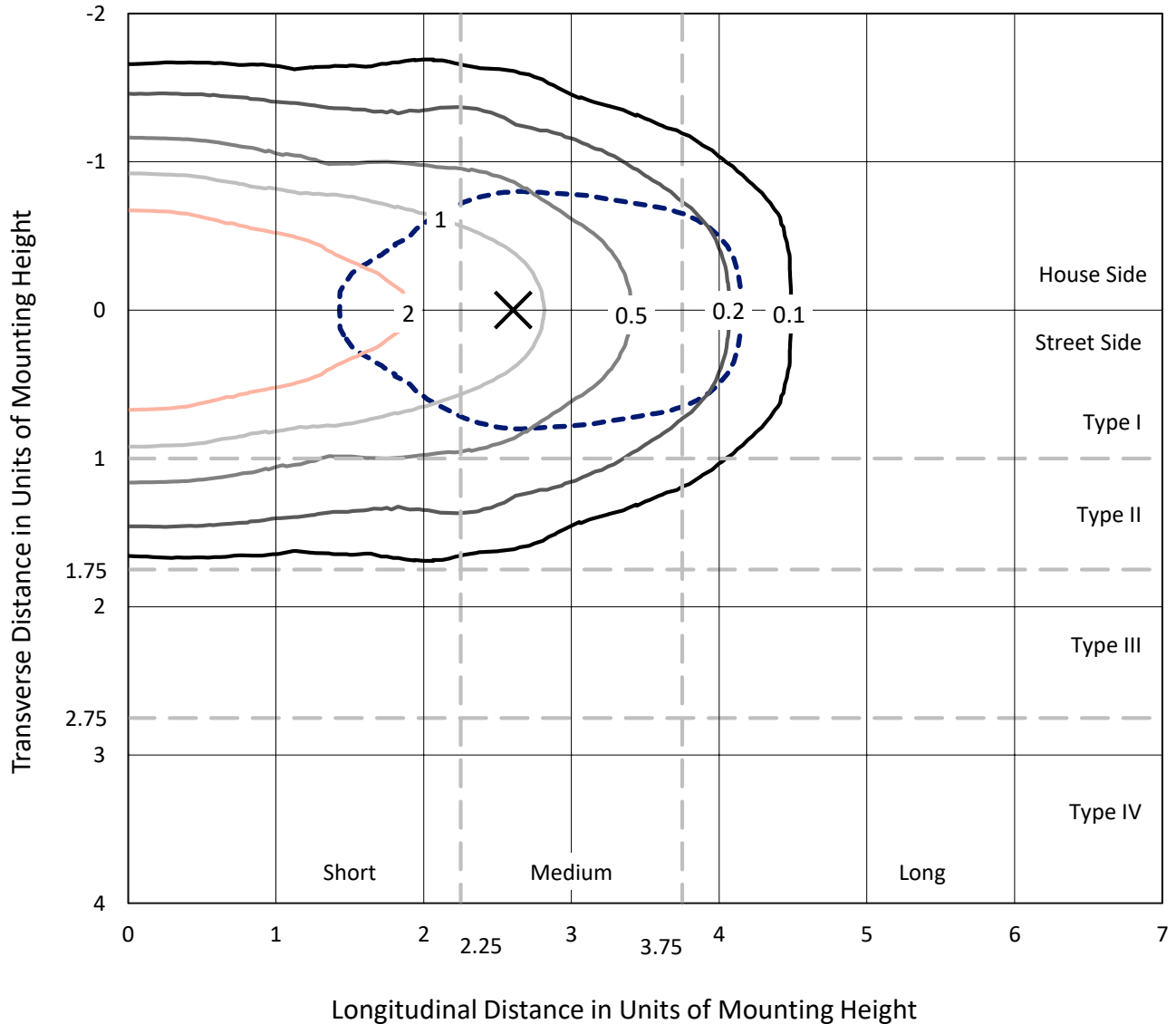


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

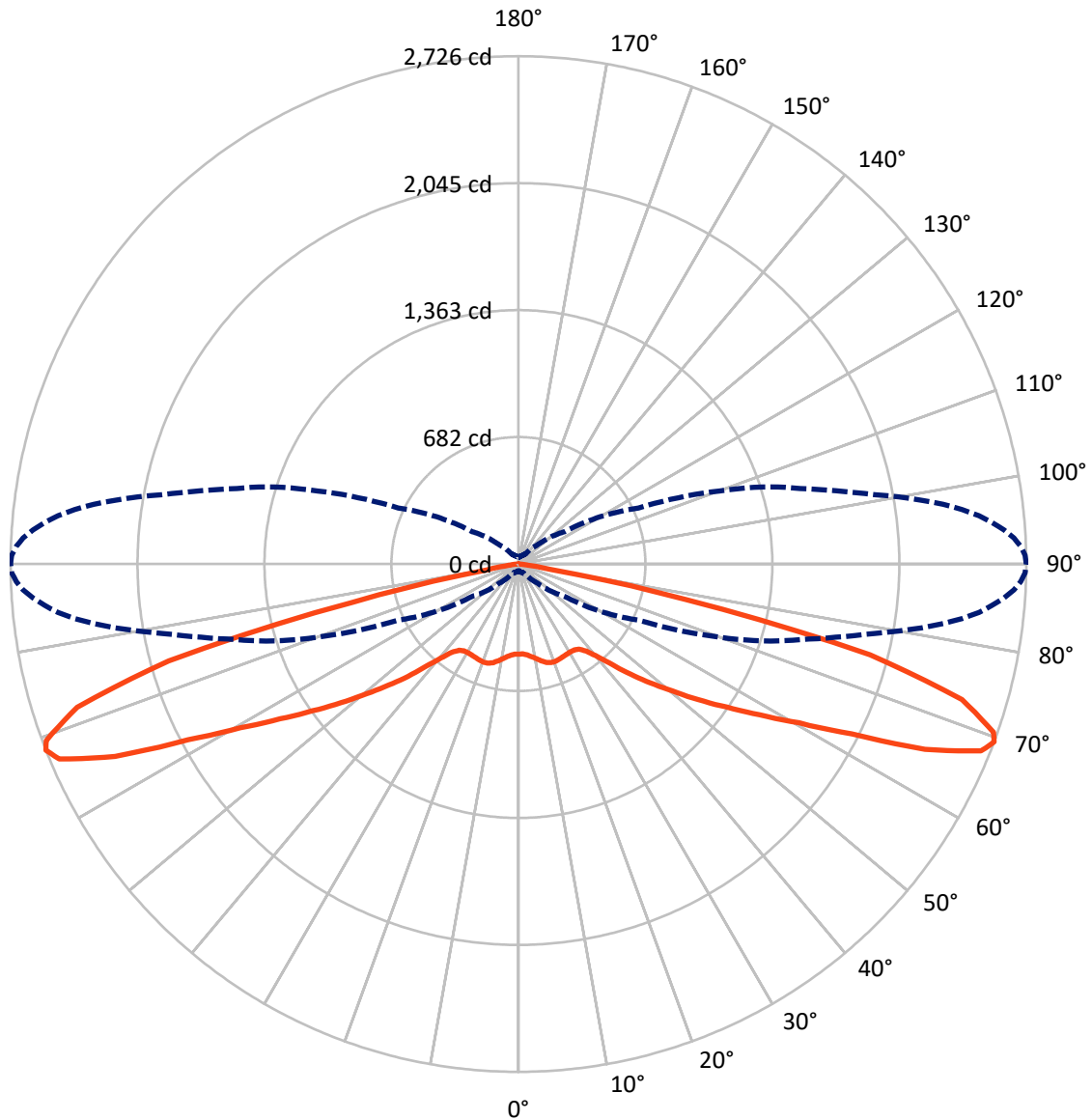


Based on 10 foot mounting height. Maximum calculated value = 4.9 fc
 Type I - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1289.5	0.0	1289.5
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1289.5	0.0	1289.5
	% Fixture	50.0	0.0	50.0
Total	Lumens	2578.9	0.0	2578.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	47.4	1.8
10°-20°	149.5	5.8
20°-30°	242.2	9.4
30°-40°	301.9	11.7
40°-50°	377.2	14.6
50°-60°	465.8	18.1
60°-70°	578.8	22.4
70°-80°	384.3	14.9
80°-90°	31.7	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2578.9	100.0
0°-180°	2578.9	100.0

Coefficient of Utilization



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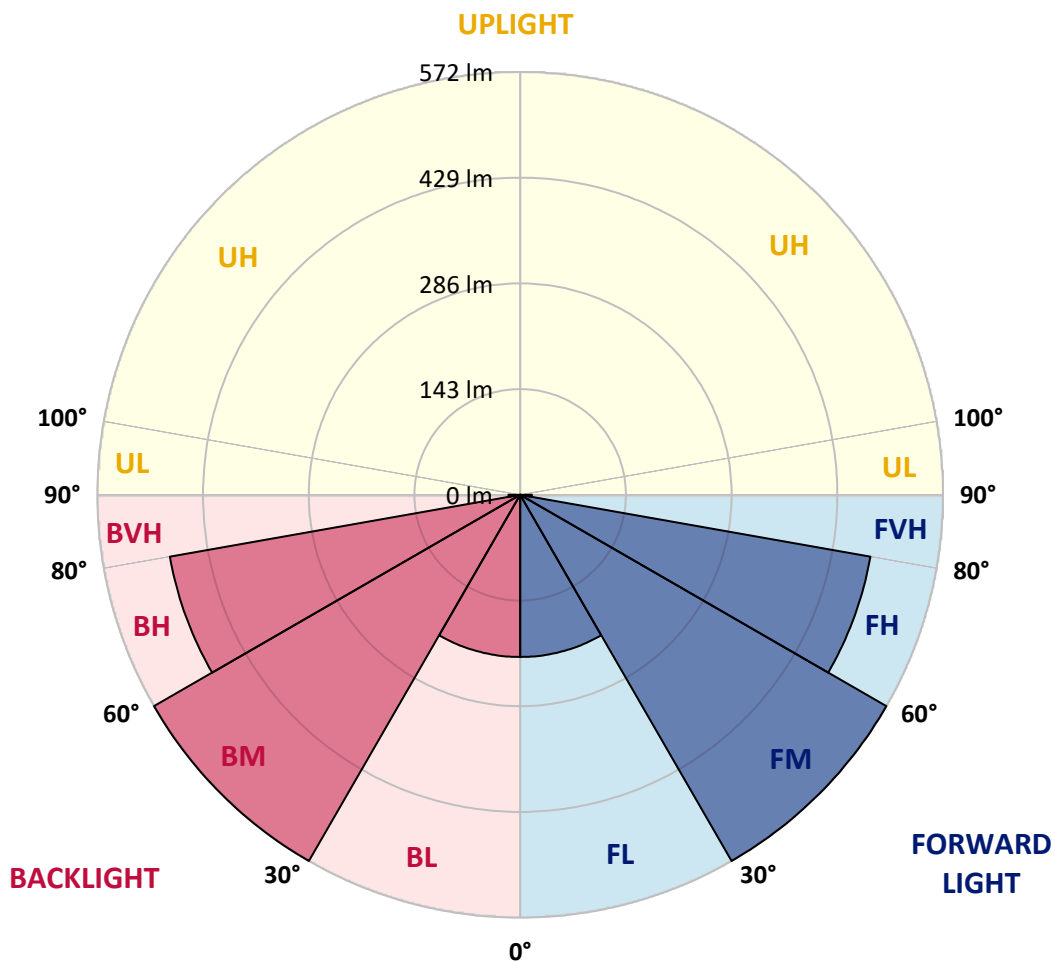
CATALOG NUMBER: VWM-F01-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	219.6	8.5			
FM (30°-60°)	572.5	22.2			
FH (60°-80°)	481.5	18.7			G0/660
FVH (80°-90°)	15.9	0.6			G1/100
BL (0°-30°)	219.6	8.5	B1/500		
BM (30°-60°)	572.5	22.2	B1/1000		
BH (60°-80°)	481.5	18.7	B1/500		G1/500
BVH (80°-90°)	15.9	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2
2.5°	485.4	485.8	485.6	486.1	486.0	486.0	485.6	485.2	485.1	485.0	484.9
5°	490.0	489.6	490.4	491.2	491.0	491.0	490.9	491.0	490.9	490.8	490.8
7.5°	495.0	494.9	495.4	497.6	497.9	498.8	499.8	500.4	500.4	500.4	500.5
10°	499.3	499.4	500.8	504.0	505.6	508.2	510.8	513.0	513.1	513.2	513.4
12.5°	502.8	502.9	505.0	509.9	513.9	518.8	524.5	527.7	527.9	528.2	528.5
15°	503.0	503.4	507.0	515.2	523.1	531.2	538.0	542.2	542.4	542.6	542.9
17.5°	499.4	499.7	505.8	517.7	531.1	543.8	550.8	552.7	552.8	552.9	553.0
20°	490.0	490.8	499.3	517.1	537.4	554.0	561.2	558.6	558.3	558.1	557.8
22.5°	475.0	474.8	486.0	509.9	538.6	562.0	568.3	561.4	560.6	559.8	559.0
25°	450.5	452.1	465.2	493.8	531.6	563.7	573.4	563.0	561.8	560.7	559.5
27.5°	423.9	424.9	438.8	469.4	515.2	557.5	576.0	566.0	564.7	563.4	562.1
30°	393.0	394.2	409.0	441.1	489.0	541.6	575.2	573.0	571.4	569.9	568.3
32.5°	362.7	364.0	377.4	412.5	461.4	519.7	571.2	582.6	581.1	579.5	578.0
35°	331.3	333.4	349.6	385.2	434.6	495.3	564.8	595.2	594.3	593.4	592.6
37.5°	305.3	305.7	321.4	358.7	409.9	472.1	556.4	611.0	611.7	612.3	613.0
40°	276.2	278.9	294.6	333.9	387.4	452.4	548.4	632.5	635.8	639.1	642.4
42.5°	250.2	250.6	266.5	307.1	363.1	436.6	544.0	658.4	665.4	672.4	679.4
45°	222.9	224.0	238.4	277.6	335.0	417.8	543.9	688.2	699.4	710.7	721.9
47.5°	197.0	197.4	212.7	249.2	302.8	391.8	543.0	720.3	735.6	750.9	766.1
50°	172.2	171.9	186.8	222.0	271.0	357.4	534.6	756.6	775.9	795.2	814.5
52.5°	143.9	145.8	161.4	195.0	242.2	322.6	510.1	796.4	819.4	842.5	865.6
55°	116.2	117.0	133.6	165.0	212.8	290.2	467.4	833.0	860.2	887.4	914.6
57.5°	85.6	88.0	102.6	133.6	183.2	262.8	413.2	852.0	885.1	918.2	951.3
60°	60.4	62.4	75.2	101.2	150.5	234.0	366.5	841.4	884.4	927.4	970.5
62.5°	47.0	48.6	58.9	75.8	117.4	205.3	333.1	807.1	865.7	924.2	982.8
65°	41.3	42.6	52.0	60.6	87.6	176.0	314.8	770.9	848.3	925.7	1003.1
67.5°	37.2	39.0	47.1	53.1	71.4	153.6	310.0	748.0	835.7	923.4	1011.1
69°	35.5	37.2	44.4	49.6	66.4	145.6	301.7	712.2	799.3	886.5	973.6
70°	34.4	35.8	42.5	47.8	64.7	140.0	288.0	667.3	752.9	838.5	924.1
72.5°	32.0	32.6	38.6	43.6	60.0	113.2	221.5	495.6	569.8	644.0	718.2
75°	28.2	29.0	34.6	39.5	46.8	70.3	140.2	306.6	361.9	417.3	472.7
77.5°	24.4	25.0	29.8	37.7	36.4	43.9	83.8	170.6	202.7	234.9	267.0
80°	19.5	20.4	24.6	37.4	30.0	34.1	60.2	119.3	128.0	136.6	145.3
82.5°	14.3	15.0	19.3	30.2	23.0	25.7	45.9	101.2	104.2	107.2	110.2
85°	7.3	7.4	12.2	18.4	14.6	13.4	25.8	69.2	71.2	73.1	75.0
87.5°	1.2	1.2	2.8	3.2	3.6	2.2	3.3	11.8	12.2	12.6	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: VWM-F01-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2
2.5°	484.9	484.8	484.6	484.6	484.8	484.7	484.8	484.9	485.1	484.5	484.4
5°	490.7	490.6	490.6	490.6	490.7	490.7	490.8	491.0	491.0	490.6	490.6
7.5°	500.5	500.5	500.7	500.5	500.8	500.7	500.4	500.8	501.1	501.2	501.5
10°	513.5	513.7	514.2	514.1	514.6	514.5	514.6	515.0	515.4	515.4	515.8
12.5°	528.7	529.0	529.2	529.5	530.0	529.8	530.4	530.7	531.1	531.9	531.5
15°	543.1	543.3	544.0	544.1	544.6	544.8	545.4	545.6	545.8	546.4	546.5
17.5°	553.0	553.1	553.4	553.2	553.6	553.5	554.0	554.2	554.5	554.9	555.5
20°	557.6	557.3	557.1	557.0	556.7	556.3	556.4	556.6	556.7	557.0	557.5
22.5°	558.2	557.4	556.6	556.0	555.2	554.5	553.8	553.8	553.9	553.8	554.1
25°	558.3	557.2	555.8	554.3	553.1	551.5	550.2	550.1	549.7	549.7	549.9
27.5°	560.8	559.5	557.7	555.8	553.3	551.2	549.1	548.4	547.6	547.1	546.9
30°	566.8	565.2	563.1	560.8	558.0	554.7	551.7	550.8	549.7	548.8	548.0
32.5°	576.4	574.8	572.4	570.0	566.4	563.1	560.2	558.6	557.1	555.4	553.9
35°	591.7	590.8	588.7	586.6	583.9	581.3	578.7	577.0	574.4	573.2	571.3
37.5°	613.6	614.2	614.2	614.5	613.7	612.4	610.5	608.7	607.9	604.4	602.2
40°	645.6	648.9	652.0	654.3	656.3	658.4	660.2	659.1	659.4	658.5	657.2
42.5°	686.5	693.5	700.0	706.4	711.0	718.2	723.3	724.9	729.0	730.5	733.5
45°	733.1	744.3	755.1	765.1	774.4	784.7	794.8	802.3	810.6	819.8	829.2
47.5°	781.4	796.7	812.6	825.6	839.0	854.3	867.8	879.1	893.8	907.5	922.5
50°	833.8	853.1	871.2	887.2	904.5	922.2	940.6	957.2	977.1	998.9	1022.5
52.5°	888.7	911.8	932.7	952.8	973.1	993.3	1012.9	1036.4	1061.0	1089.8	1119.3
55°	941.8	969.0	992.8	1015.2	1038.4	1061.0	1081.2	1112.6	1142.7	1177.1	1215.7
57.5°	984.4	1017.5	1044.9	1071.5	1097.6	1121.7	1146.5	1181.9	1220.4	1260.6	1309.5
60°	1013.5	1056.6	1091.5	1123.4	1155.6	1185.8	1214.4	1260.6	1306.4	1356.4	1417.2
62.5°	1041.3	1099.9	1145.5	1189.1	1232.4	1271.2	1306.7	1364.9	1424.6	1486.4	1558.8
65°	1080.5	1158.0	1225.1	1285.9	1345.8	1402.9	1456.0	1529.7	1605.2	1686.5	1772.9
67.5°	1098.8	1186.4	1273.9	1355.8	1431.9	1504.2	1572.4	1661.5	1750.3	1844.6	1949.0
69°	1060.8	1148.0	1241.5	1330.9	1415.0	1491.7	1565.4	1656.5	1748.8	1845.1	1950.4
70°	1009.7	1095.3	1189.7	1283.1	1363.5	1443.5	1519.9	1610.3	1703.8	1800.3	1910.6
72.5°	792.4	866.6	958.7	1049.4	1130.1	1210.3	1284.5	1377.0	1471.1	1572.5	1676.9
75°	528.1	583.5	652.1	736.3	810.2	881.1	953.0	1031.3	1123.1	1206.6	1302.2
77.5°	299.1	331.2	371.1	425.8	478.9	521.4	572.7	609.4	662.8	708.8	757.4
80°	154.0	162.6	174.5	187.7	195.1	193.9	201.6	194.0	195.7	189.6	183.0
82.5°	113.2	116.2	121.6	124.2	124.0	115.3	106.1	93.3	82.1	70.2	59.4
85°	77.0	78.9	80.2	82.2	81.7	77.9	69.6	58.5	47.7	38.3	30.6
87.5°	13.3	13.7	13.6	14.7	14.8	13.7	11.3	9.6	8.2	6.1	4.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	86°	87°	88°	89°	90°
0°	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2	483.2
2.5°	484.4	484.3	484.6	484.3	484.3	484.3	484.2	484.4	484.3	483.9	483.5
5°	490.6	490.2	490.1	490.4	490.6	490.1	490.5	491.0	490.2	490.4	490.1
7.5°	501.2	501.1	501.0	501.2	501.2	501.1	501.2	500.8	500.5	501.0	501.4
10°	515.4	515.2	515.6	515.6	516.1	515.8	515.7	516.1	515.8	515.6	515.7
12.5°	532.0	531.7	532.4	532.3	532.8	532.8	532.6	532.8	532.6	532.2	531.9
15°	546.9	546.3	546.5	547.6	547.4	547.7	547.8	547.4	547.3	547.2	547.3
17.5°	555.8	555.6	555.6	556.2	556.6	556.4	556.4	556.4	556.3	556.4	556.7
20°	557.6	557.5	557.6	558.2	558.8	558.5	558.4	558.8	558.5	558.8	558.9
22.5°	554.3	554.6	554.9	555.6	555.7	555.7	555.8	555.8	556.2	556.2	556.4
25°	550.0	550.2	550.7	551.2	551.7	551.7	551.8	552.0	552.0	552.2	552.3
27.5°	546.6	546.9	547.4	547.9	548.6	548.6	548.6	548.8	548.8	549.0	549.2
30°	547.0	546.5	546.9	547.2	547.6	547.6	547.5	547.6	547.7	547.8	547.9
32.5°	553.0	551.7	551.4	551.2	551.3	550.9	550.8	550.5	550.2	550.2	550.1
35°	568.7	566.7	566.6	565.4	564.4	563.2	563.4	562.6	562.8	562.2	561.6
37.5°	600.8	598.6	600.0	597.7	596.2	595.1	593.8	592.2	591.2	592.4	592.5
40°	658.4	657.0	656.6	657.0	655.6	656.3	653.3	652.4	650.7	651.8	653.5
42.5°	738.2	737.2	742.4	743.4	744.0	744.8	745.3	740.8	740.6	739.6	736.9
45°	836.6	842.3	842.0	848.4	848.6	846.8	847.5	845.5	844.6	841.6	845.3
47.5°	937.6	948.6	952.8	954.2	959.4	960.6	955.6	954.0	957.0	952.0	952.7
50°	1046.2	1058.1	1067.6	1074.2	1077.8	1078.2	1074.4	1073.6	1076.2	1066.8	1071.3
52.5°	1153.0	1170.9	1189.0	1198.6	1205.6	1206.0	1209.0	1205.6	1206.9	1204.7	1209.1
55°	1258.2	1289.2	1310.5	1329.4	1341.4	1351.7	1352.6	1356.4	1356.6	1361.2	1356.6
57.5°	1361.2	1394.8	1432.1	1465.4	1484.0	1495.7	1506.8	1521.7	1525.0	1523.2	1526.1
60°	1482.6	1534.8	1585.3	1623.8	1655.8	1686.6	1703.0	1726.6	1730.3	1740.5	1731.7
62.5°	1636.2	1711.8	1780.4	1832.2	1881.0	1928.7	1964.8	1982.9	1993.9	2015.2	2008.2
65°	1871.8	1962.5	2053.2	2127.5	2195.8	2252.6	2307.4	2333.5	2362.4	2392.6	2398.1
67.5°	2065.7	2178.2	2280.4	2370.9	2453.6	2516.8	2573.8	2619.0	2654.2	2676.5	2678.3
69°	2074.5	2191.4	2302.4	2399.6	2485.8	2553.0	2612.9	2663.2	2697.6	2720.4	2726.4
70°	2032.5	2152.0	2270.4	2368.4	2456.8	2525.4	2589.0	2637.0	2675.2	2698.5	2706.6
72.5°	1795.7	1923.4	2049.8	2135.8	2226.0	2307.8	2358.7	2407.6	2461.6	2468.6	2490.9
75°	1415.5	1522.8	1621.0	1686.7	1762.1	1835.4	1885.4	1898.2	1926.5	1962.0	1949.3
77.5°	820.3	853.4	916.6	932.8	919.1	951.0	961.6	939.0	938.0	958.7	917.4
80°	181.8	171.4	184.4	174.8	175.0	175.3	172.4	171.3	173.4	171.3	168.4
82.5°	50.4	48.8	49.0	48.4	49.4	48.7	48.3	49.4	49.2	49.2	50.1
85°	24.2	24.0	23.5	23.4	22.8	22.2	21.0	21.0	21.6	20.8	21.2
87.5°	3.2	3.0	3.0	3.6	3.2	2.6	2.6	2.6	2.5	2.5	2.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)