

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: P148780

Luminaire Tested: **VWM-E01-LED-E1-RW**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148780
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-E01-LED-E1-RW
Description: VISION WALL MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3123.9 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 24.7
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

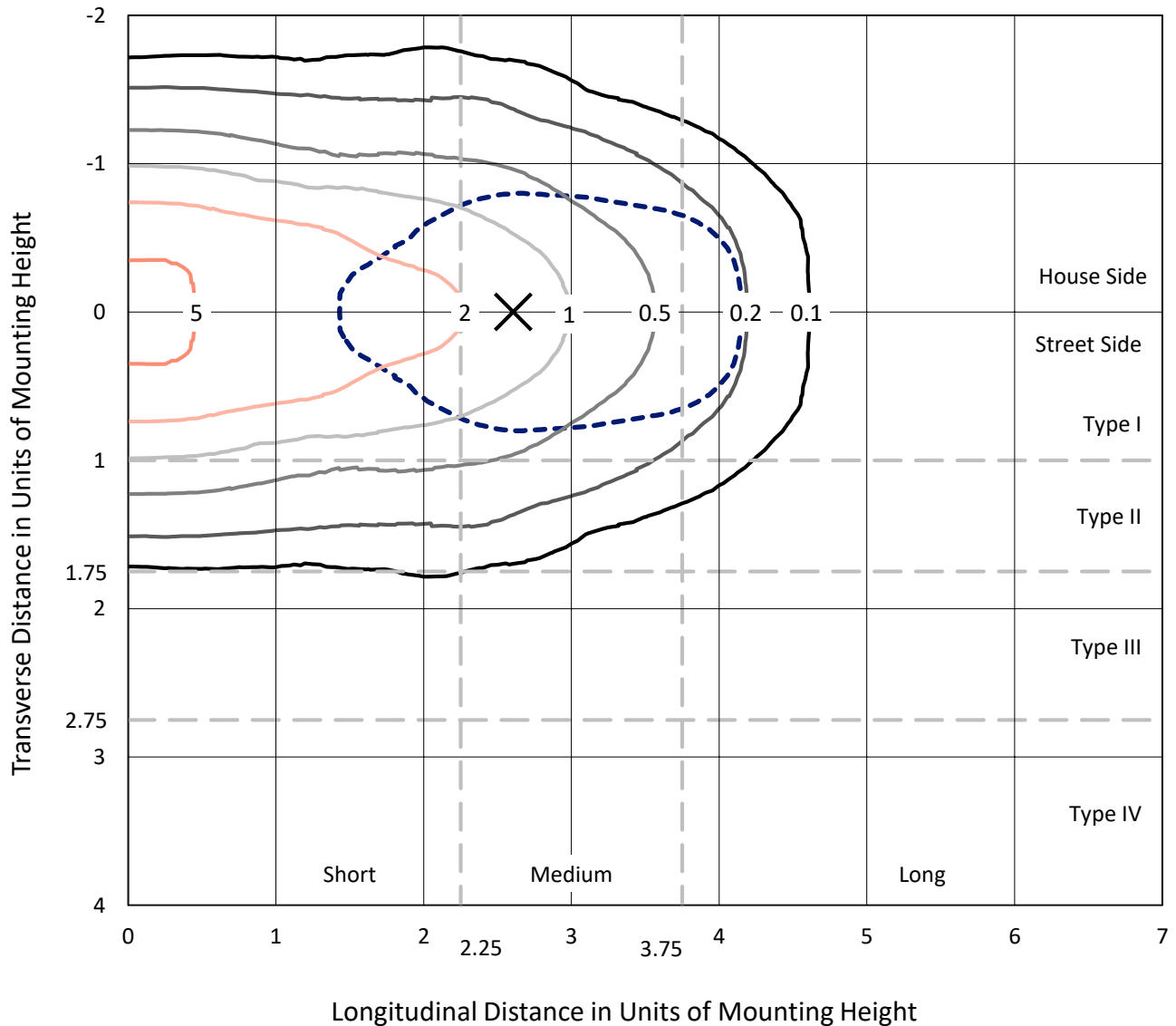


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

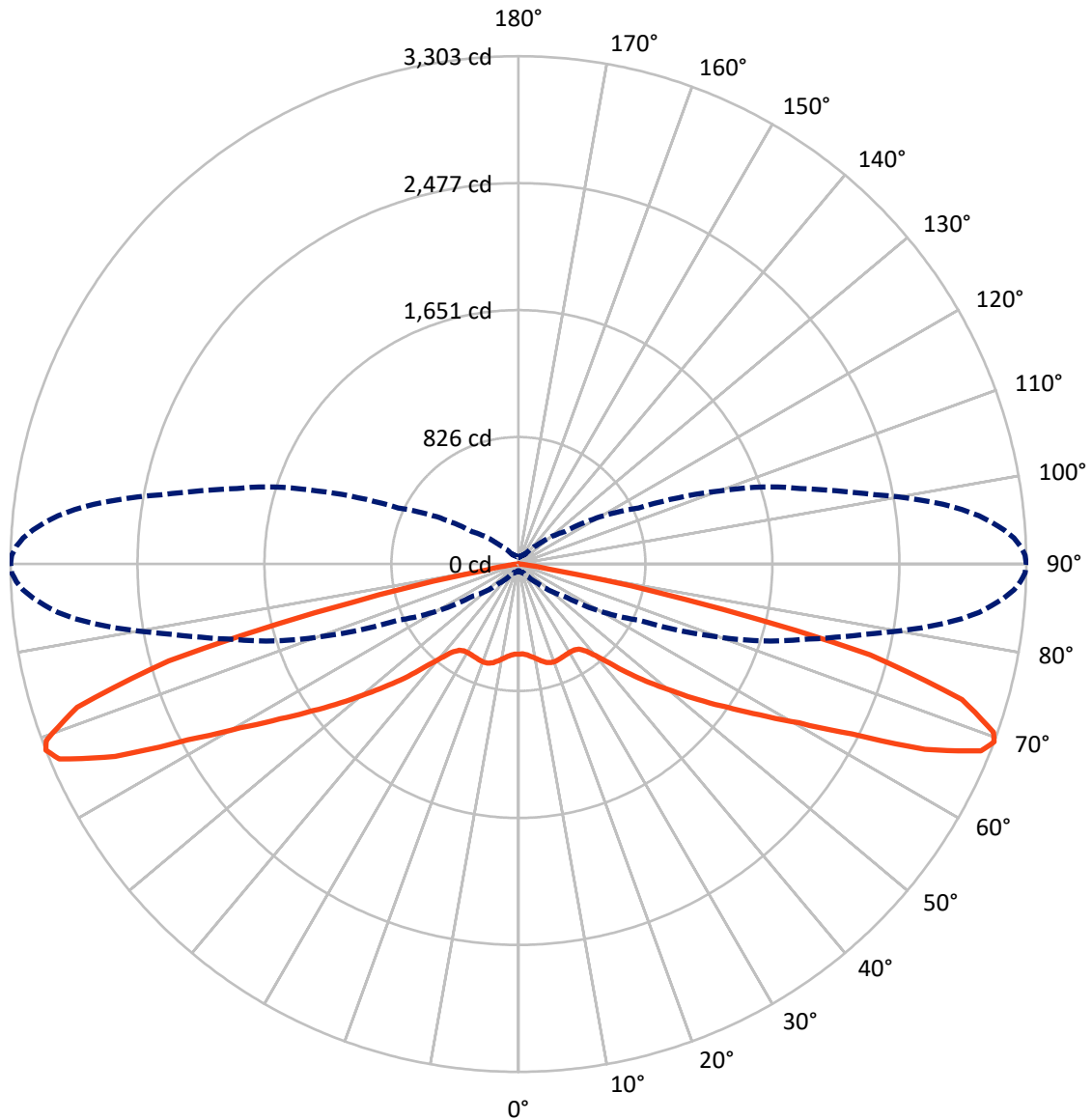


Based on 10 foot mounting height. Maximum calculated value = 6 fc
 Type I - Short - Full Cutoff

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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	1562.0	0.0	1562.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	1562.0	0.0	1562.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	3123.9	0.0	3123.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.4	1.8
10°-20°	181.1	5.8
20°-30°	293.4	9.4
30°-40°	365.7	11.7
40°-50°	457.0	14.6
50°-60°	564.3	18.1
60°-70°	701.1	22.4
70°-80°	465.5	14.9
80°-90°	38.4	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°	3123.9	100.0
0°-180°	3123.9	100.0



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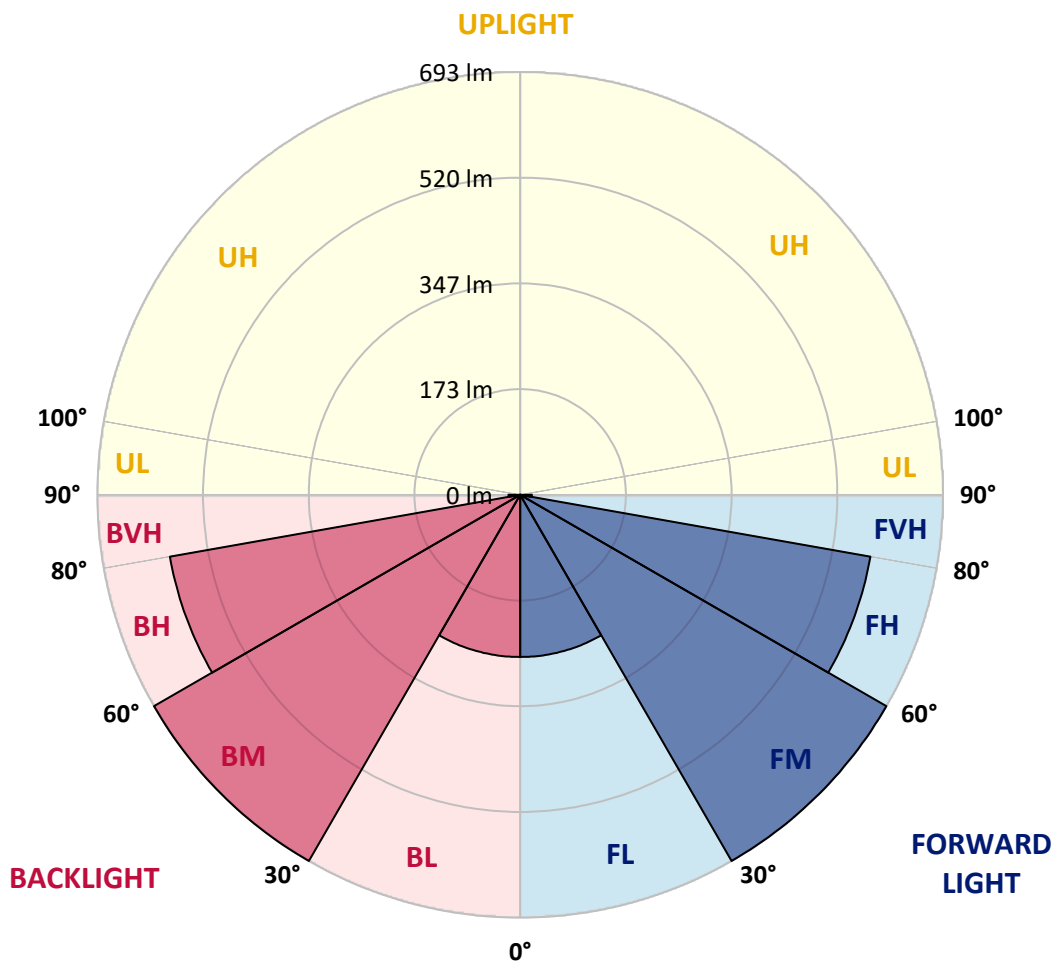
CATALOG NUMBER: VWM-E01-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	266.0	8.5			
FM (30°-60°)	693.5	22.2			
FH (60°-80°)	583.3	18.7			G0/660
FVH (80°-90°)	19.2	0.6			G1/100
BL (0°-30°)	266.0	8.5	B1/500		
BM (30°-60°)	693.5	22.2	B1/1000		
BH (60°-80°)	583.3	18.7	B2/1000		G2/1000
BVH (80°-90°)	19.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	588.0	588.5	588.2	588.8	588.6	588.6	588.3	587.6	587.6	587.5	587.4
5°	593.6	593.0	594.0	595.0	594.6	594.8	594.6	594.6	594.6	594.5	594.5
7.5°	599.7	599.5	600.2	602.8	603.2	604.2	605.4	606.2	606.2	606.2	606.3
10°	604.8	605.0	606.6	610.5	612.5	615.6	618.8	621.4	621.5	621.7	621.9
12.5°	609.0	609.2	611.7	617.6	622.5	628.5	635.3	639.2	639.5	639.9	640.2
15°	609.4	609.8	614.2	624.0	633.7	643.5	651.6	656.8	657.1	657.4	657.6
17.5°	605.0	605.4	612.6	627.2	643.4	658.6	667.2	669.5	669.6	669.7	669.8
20°	593.6	594.5	604.8	626.4	651.0	671.0	679.8	676.7	676.4	676.0	675.7
22.5°	575.3	575.2	588.6	617.6	652.5	680.7	688.5	680.2	679.2	678.2	677.2
25°	545.7	547.6	563.5	598.2	644.0	682.8	694.6	682.0	680.6	679.2	677.8
27.5°	513.5	514.6	531.5	568.6	624.2	675.3	697.6	685.7	684.1	682.5	680.9
30°	476.0	477.5	495.5	534.4	592.4	656.0	696.8	694.0	692.1	690.3	688.4
32.5°	439.4	441.0	457.2	499.7	558.8	629.5	691.8	705.8	704.0	702.0	700.2
35°	401.4	403.8	423.5	466.5	526.5	600.0	684.2	721.0	720.0	718.9	717.9
37.5°	369.8	370.3	389.4	434.5	496.5	571.8	674.0	740.2	741.0	741.7	742.5
40°	334.6	337.8	356.8	404.5	469.4	548.0	664.4	766.2	770.1	774.1	778.1
42.5°	303.2	303.5	322.8	372.0	439.8	528.8	659.0	797.5	806.0	814.5	823.0
45°	270.0	271.4	288.8	336.4	405.8	506.2	658.8	833.6	847.2	860.8	874.4
47.5°	238.6	239.2	257.6	301.8	366.8	474.5	657.6	872.5	891.0	909.5	928.1
50°	208.6	208.2	226.4	268.8	328.4	433.0	647.5	916.5	939.9	963.3	986.7
52.5°	174.3	176.6	195.5	236.2	293.4	390.8	617.8	964.7	992.7	1020.6	1048.6
55°	140.6	141.6	161.8	199.9	257.8	351.5	566.2	1009.0	1042.0	1074.9	1107.9
57.5°	103.7	106.7	124.4	161.8	221.8	318.4	500.5	1032.0	1072.1	1112.2	1152.4
60°	73.2	75.5	91.2	122.6	182.4	283.5	444.0	1019.2	1071.3	1123.4	1175.6
62.5°	57.0	58.8	71.3	91.8	142.2	248.7	403.5	977.7	1048.6	1119.6	1190.5
65°	50.0	51.6	63.0	73.5	106.2	213.2	381.3	933.8	1027.6	1121.3	1215.1
67.5°	45.2	47.2	57.0	64.4	86.5	186.0	375.5	906.2	1012.4	1118.6	1224.8
69°	43.0	45.0	53.8	60.0	80.4	176.3	365.5	862.6	968.2	1073.8	1179.4
70°	41.6	43.4	51.5	57.8	78.3	169.6	348.8	808.4	912.0	1015.7	1119.4
72.5°	38.6	39.5	46.7	52.8	72.6	137.2	268.4	600.3	690.2	780.1	870.0
75°	34.2	35.2	41.8	47.8	56.6	85.2	169.8	371.4	438.4	505.5	572.6
77.5°	29.5	30.4	36.2	45.7	44.0	53.2	101.5	206.7	245.6	284.5	323.4
80°	23.7	24.6	29.8	45.3	36.4	41.3	73.0	144.5	155.0	165.5	176.0
82.5°	17.4	18.2	23.4	36.6	27.8	31.2	55.6	122.5	126.1	129.8	133.4
85°	8.8	9.0	14.8	22.4	17.7	16.2	31.4	83.8	86.1	88.5	90.8
87.5°	1.5	1.5	3.3	3.8	4.4	2.7	4.0	14.3	14.8	15.2	15.7
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-E01-LED-E1-RW

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	587.3	587.2	587.0	587.0	587.2	587.1	587.3	587.3	587.6	586.9	586.8
5°	594.4	594.3	594.3	594.2	594.4	594.4	594.5	594.8	594.7	594.3	594.2
7.5°	606.3	606.3	606.5	606.4	606.7	606.5	606.2	606.7	607.0	607.1	607.4
10°	622.1	622.2	622.8	622.8	623.4	623.2	623.4	623.9	624.3	624.4	624.8
12.5°	640.5	640.8	641.2	641.4	642.1	641.7	642.5	642.8	643.4	644.3	643.8
15°	657.9	658.2	659.0	659.2	659.7	660.0	660.6	661.0	661.1	661.9	662.0
17.5°	669.9	670.0	670.3	670.2	670.6	670.5	671.0	671.2	671.7	672.1	672.9
20°	675.4	675.1	674.9	674.7	674.4	673.8	674.0	674.2	674.3	674.7	675.2
22.5°	676.2	675.2	674.2	673.6	672.5	671.6	670.8	670.9	670.9	670.9	671.3
25°	676.3	674.9	673.3	671.4	670.0	668.1	666.5	666.4	665.9	666.0	666.1
27.5°	679.3	677.8	675.6	673.4	670.3	667.8	665.2	664.3	663.4	662.8	662.6
30°	686.6	684.7	682.1	679.3	676.0	672.0	668.4	667.2	665.9	664.8	663.8
32.5°	698.2	696.4	693.4	690.5	686.0	682.1	678.5	676.7	674.9	672.8	671.0
35°	716.8	715.8	713.2	710.6	707.3	704.3	701.0	698.9	695.9	694.3	692.1
37.5°	743.2	744.0	744.0	744.3	743.3	741.8	739.5	737.3	736.3	732.2	729.5
40°	782.1	786.1	789.8	792.5	795.0	797.5	799.7	798.4	798.8	797.7	796.1
42.5°	831.6	840.1	847.9	855.6	861.3	870.1	876.2	878.1	883.1	885.0	888.6
45°	888.0	901.6	914.8	926.8	938.0	950.6	962.8	972.0	981.8	993.2	1004.4
47.5°	946.6	965.1	984.3	1000.1	1016.4	1034.9	1051.2	1064.9	1082.7	1099.3	1117.4
50°	1010.0	1033.4	1055.4	1074.7	1095.7	1117.1	1139.4	1159.5	1183.6	1210.1	1238.7
52.5°	1076.5	1104.5	1129.9	1154.2	1178.8	1203.3	1227.0	1255.5	1285.2	1320.1	1355.9
55°	1140.9	1173.8	1202.6	1229.7	1257.8	1285.2	1309.6	1347.7	1384.2	1425.9	1472.7
57.5°	1192.5	1232.6	1265.8	1298.0	1329.6	1358.8	1388.8	1431.7	1478.3	1527.0	1586.3
60°	1227.7	1279.8	1322.2	1360.9	1399.8	1436.5	1471.0	1527.1	1582.5	1643.0	1716.8
62.5°	1261.4	1332.4	1387.6	1440.4	1492.8	1539.9	1582.8	1653.4	1725.7	1800.6	1888.3
65°	1308.9	1402.6	1484.1	1557.6	1630.2	1699.4	1763.7	1853.0	1944.4	2042.9	2147.6
67.5°	1330.9	1437.2	1543.2	1642.3	1734.5	1822.2	1904.6	2012.7	2120.2	2234.4	2361.0
69°	1285.0	1390.6	1503.9	1612.2	1714.0	1807.0	1896.4	2006.6	2118.4	2235.1	2362.7
70°	1223.1	1326.8	1441.2	1554.4	1651.8	1748.6	1841.2	1950.6	2063.9	2180.8	2314.4
72.5°	959.8	1049.7	1161.3	1271.2	1368.9	1466.1	1556.0	1668.0	1782.0	1904.8	2031.4
75°	639.7	706.8	789.9	891.9	981.5	1067.4	1154.5	1249.2	1360.5	1461.7	1577.4
77.5°	362.3	401.2	449.6	515.8	580.1	631.6	693.7	738.2	802.8	858.5	917.4
80°	186.5	197.0	211.4	227.3	236.4	234.9	244.2	235.0	237.0	229.6	221.6
82.5°	137.1	140.7	147.3	150.4	150.1	139.7	128.5	113.0	99.4	85.1	71.9
85°	93.2	95.5	97.1	99.6	98.9	94.4	84.3	70.9	57.8	46.4	37.1
87.5°	16.1	16.6	16.5	17.8	17.9	16.6	13.6	11.7	9.8	7.4	5.2
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°	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3	585.3
2.5°	586.7	586.6	587.0	586.6	586.6	586.7	586.5	586.8	586.7	586.2	585.7
5°	594.4	593.8	593.6	594.0	594.3	593.6	594.2	594.6	593.8	594.0	593.7
7.5°	607.2	607.0	606.8	607.2	607.2	607.0	607.2	606.7	606.4	606.8	607.3
10°	624.4	624.2	624.5	624.5	625.2	624.8	624.6	625.2	624.8	624.5	624.7
12.5°	644.5	644.0	644.8	644.8	645.4	645.4	645.2	645.3	645.2	644.7	644.3
15°	662.5	661.8	662.0	663.3	663.2	663.5	663.5	663.2	663.0	662.8	663.0
17.5°	673.4	673.0	673.0	673.6	674.2	674.0	674.0	674.0	673.8	674.0	674.3
20°	675.4	675.4	675.5	676.2	677.0	676.5	676.5	676.8	676.5	676.8	677.0
22.5°	671.5	671.8	672.2	673.0	673.2	673.2	673.2	673.3	673.6	673.7	674.0
25°	666.2	666.5	667.0	667.6	668.4	668.3	668.3	668.6	668.7	668.8	669.0
27.5°	662.2	662.5	663.0	663.6	664.5	664.5	664.5	664.8	664.8	665.0	665.3
30°	662.6	662.0	662.5	662.8	663.3	663.4	663.2	663.4	663.5	663.5	663.7
32.5°	669.8	668.3	667.8	667.6	667.8	667.4	667.2	666.8	666.5	666.5	666.3
35°	688.8	686.5	686.4	685.0	683.6	682.4	682.5	681.5	681.8	681.0	680.3
37.5°	727.8	725.2	726.8	724.0	722.2	720.8	719.3	717.4	716.2	717.7	717.7
40°	797.7	795.8	795.3	795.8	794.2	795.0	791.4	790.3	788.2	789.7	791.7
42.5°	894.2	893.0	899.3	900.5	901.2	902.2	902.8	897.4	897.2	896.0	892.7
45°	1013.4	1020.4	1020.0	1027.6	1028.0	1025.6	1026.6	1024.2	1023.2	1019.5	1024.0
47.5°	1135.8	1149.2	1154.2	1155.8	1162.2	1163.6	1157.6	1155.6	1159.2	1153.2	1154.0
50°	1267.4	1281.7	1293.4	1301.2	1305.6	1306.0	1301.5	1300.5	1303.6	1292.4	1297.7
52.5°	1396.6	1418.4	1440.3	1452.0	1460.3	1461.0	1464.5	1460.3	1462.0	1459.4	1464.7
55°	1524.2	1561.7	1587.5	1610.4	1624.8	1637.4	1638.5	1643.0	1643.4	1648.8	1643.3
57.5°	1648.8	1689.6	1734.6	1775.2	1797.6	1811.8	1825.2	1843.4	1847.4	1845.2	1848.7
60°	1796.0	1859.2	1920.3	1967.0	2005.8	2043.0	2063.0	2091.5	2096.0	2108.3	2097.7
62.5°	1982.0	2073.6	2156.6	2219.5	2278.5	2336.4	2380.0	2402.0	2415.4	2441.2	2432.7
65°	2267.4	2377.4	2487.2	2577.2	2659.8	2728.6	2795.0	2826.6	2861.6	2898.3	2905.0
67.5°	2502.4	2638.5	2762.3	2872.0	2972.2	3048.7	3117.7	3172.5	3215.2	3242.1	3244.3
69°	2513.0	2654.5	2789.0	2906.7	3011.2	3092.5	3165.2	3226.1	3267.6	3295.4	3302.7
70°	2462.0	2606.8	2750.2	2869.0	2976.0	3059.2	3136.2	3194.4	3240.6	3268.8	3278.7
72.5°	2175.2	2329.8	2483.0	2587.2	2696.5	2795.5	2857.2	2916.5	2981.8	2990.4	3017.3
75°	1714.6	1844.7	1963.5	2043.2	2134.5	2223.4	2283.8	2299.5	2333.6	2376.6	2361.3
77.5°	993.6	1033.6	1110.4	1130.0	1113.4	1152.0	1164.8	1137.5	1136.2	1161.3	1111.3
80°	220.2	207.6	223.3	211.6	212.0	212.4	208.8	207.5	210.0	207.5	204.0
82.5°	61.0	59.0	59.4	58.6	59.8	59.0	58.5	59.8	59.6	59.5	60.7
85°	29.4	29.0	28.5	28.4	27.6	26.8	25.5	25.5	26.2	25.2	25.7
87.5°	3.8	3.7	3.6	4.3	3.8	3.2	3.2	3.2	3.0	3.0	3.0
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)