

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: P148793

Luminaire Tested: **VWM-F02-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148793
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-F02-LED-E1-RW-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4353.1 lumens
Efficiency: N/A
Efficacy: 79.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B2 - U0 - G2

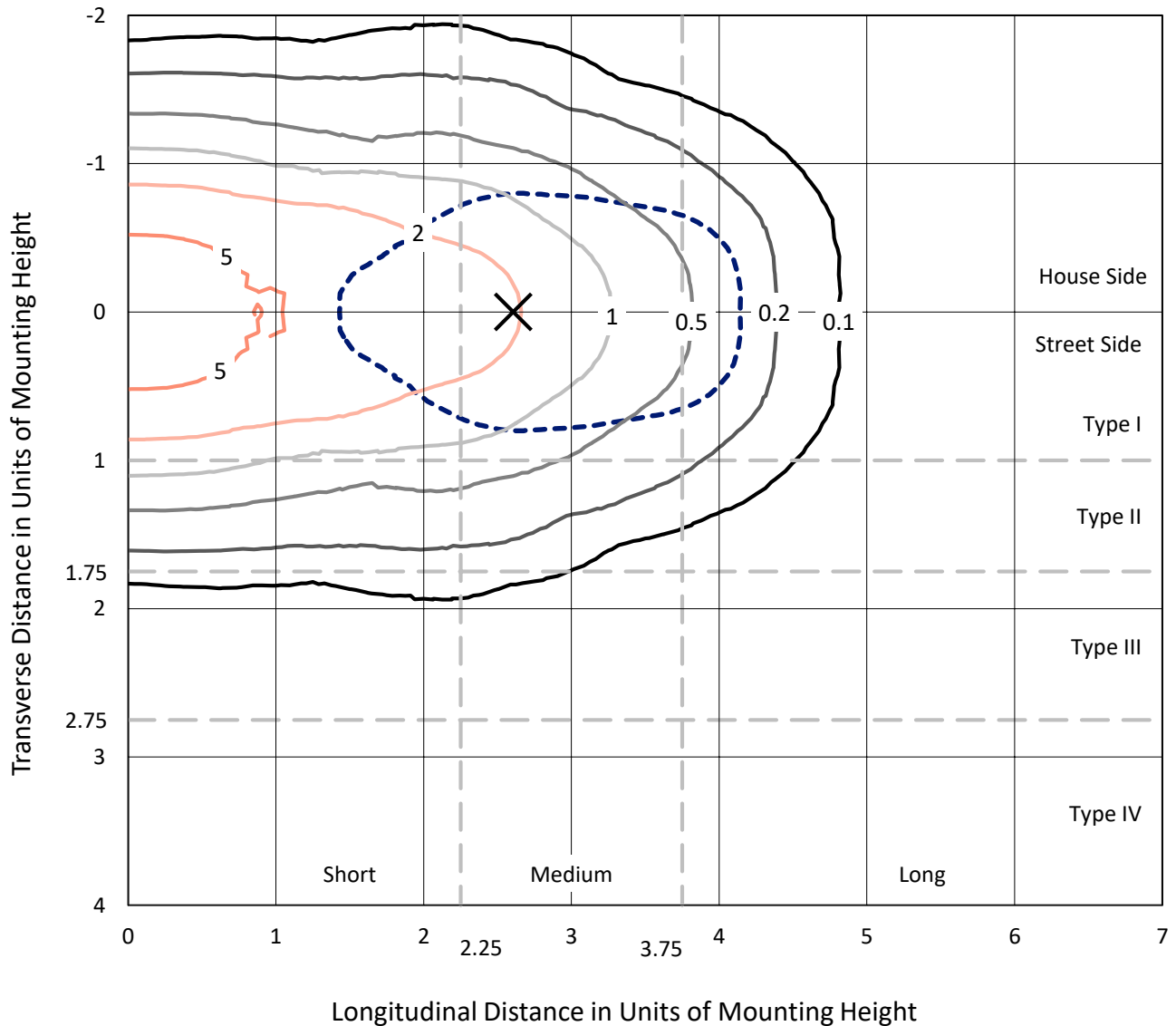
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

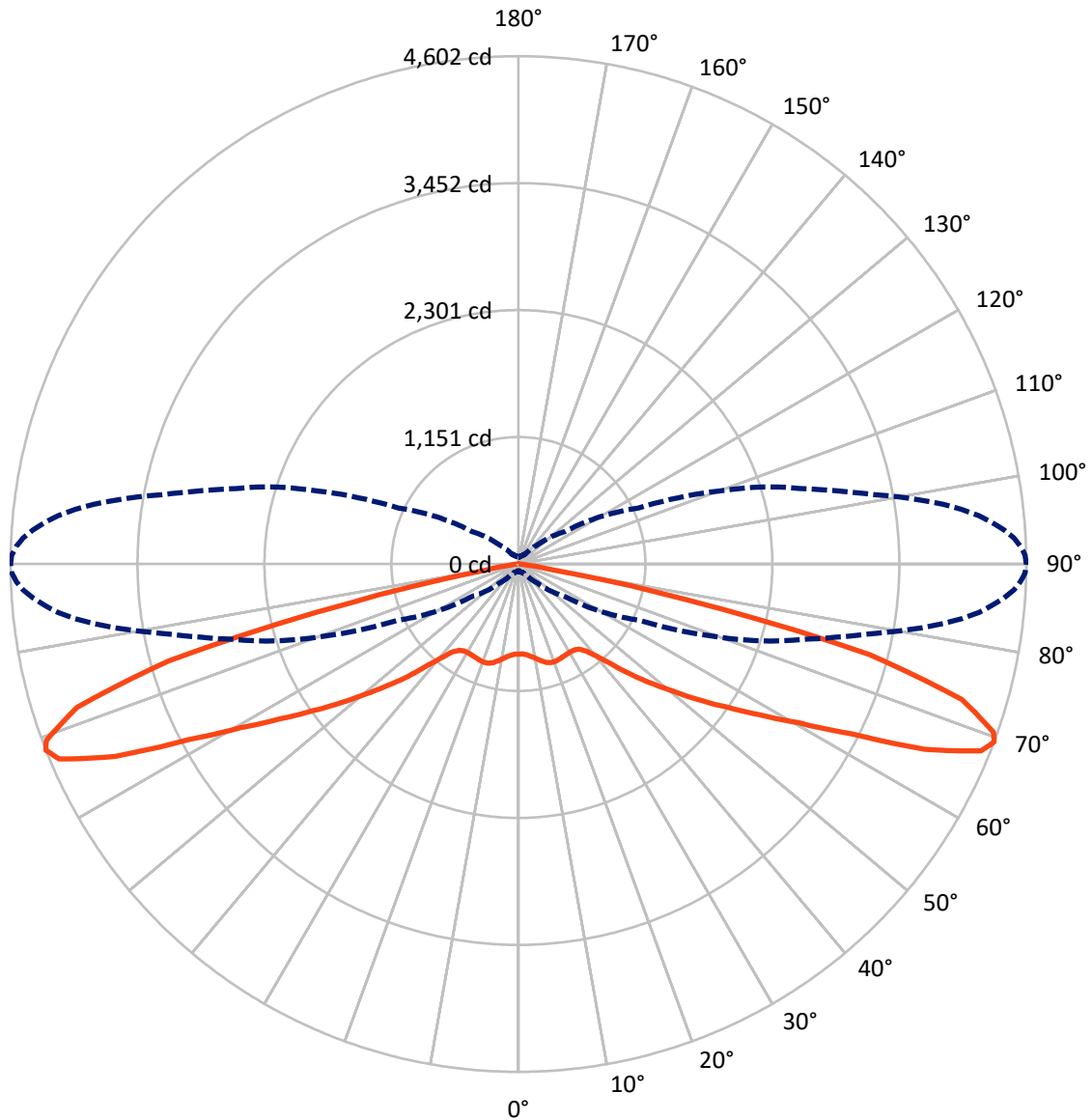
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 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	2176.6	0.0	2176.6
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	2176.6	0.0	2176.6
	% Fixture	50.0	0.0	50.0
Total	Lumens	4353.1	0.0	4353.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.0	1.8
10°-20°	252.4	5.8
20°-30°	408.9	9.4
30°-40°	509.6	11.7
40°-50°	636.8	14.6
50°-60°	786.3	18.1
60°-70°	977.0	22.4
70°-80°	648.6	14.9
80°-90°	53.6	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°	4353.1	100.0
0°-180°	4353.1	100.0



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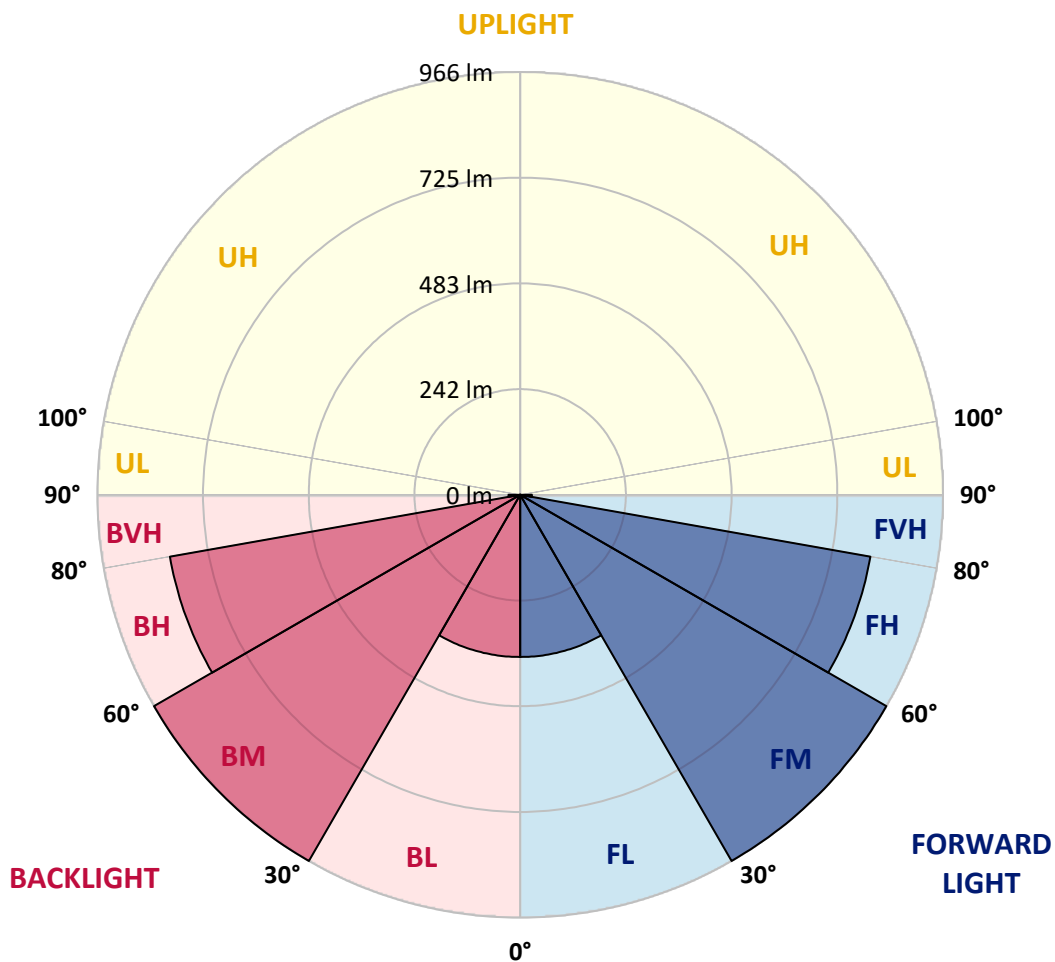
CATALOG NUMBER: VWM-F02-LED-E1-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	370.6	8.5			
FM (30°-60°)	966.3	22.2			
FH (60°-80°)	812.8	18.7			G1/1800
FVH (80°-90°)	26.8	0.6			G1/100
BL (0°-30°)	370.6	8.5	B1/500		
BM (30°-60°)	966.3	22.2	B1/1000		
BH (60°-80°)	812.8	18.7	B2/1000		G2/1000
BVH (80°-90°)	26.8	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°	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6
2.5°	819.4	820.0	819.6	820.5	820.3	820.3	819.8	818.9	818.8	818.7	818.6
5°	827.2	826.4	827.7	829.1	828.6	828.9	828.6	828.6	828.6	828.5	828.4
7.5°	835.6	835.4	836.3	840.0	840.5	841.9	843.5	844.6	844.7	844.8	844.8
10°	842.8	843.0	845.4	850.7	853.5	858.0	862.3	865.8	866.1	866.3	866.6
12.5°	848.6	848.8	852.4	860.7	867.4	875.8	885.3	890.6	891.1	891.6	892.1
15°	849.1	849.8	855.8	869.6	883.0	896.7	908.0	915.3	915.7	916.0	916.4
17.5°	843.0	843.5	853.8	874.0	896.4	917.8	929.7	932.9	933.0	933.2	933.3
20°	827.2	828.4	842.8	872.8	907.2	935.0	947.3	942.9	942.5	942.0	941.6
22.5°	801.8	801.5	820.3	860.7	909.2	948.5	959.4	947.8	946.4	945.1	943.7
25°	760.4	763.2	785.2	833.6	897.4	951.5	968.0	950.4	948.4	946.4	944.4
27.5°	715.6	717.2	740.6	792.4	869.8	941.0	972.2	955.4	953.2	951.0	948.8
30°	663.3	665.4	690.4	744.6	825.4	914.1	971.0	967.0	964.5	961.9	959.3
32.5°	612.2	614.5	637.0	696.2	778.7	877.2	964.0	983.6	980.9	978.3	975.6
35°	559.2	562.7	590.2	650.0	733.7	836.1	953.4	1004.7	1003.2	1001.8	1000.3
37.5°	515.4	516.0	542.6	605.4	691.8	796.8	939.2	1031.4	1032.5	1033.5	1034.6
40°	466.4	470.8	497.2	563.6	654.0	763.6	925.8	1067.6	1073.2	1078.7	1084.3
42.5°	422.4	422.9	449.8	518.4	612.9	736.9	918.3	1111.3	1123.2	1135.0	1146.9
45°	376.2	378.1	402.5	468.7	565.5	705.3	918.0	1161.7	1180.6	1199.6	1218.6
47.5°	332.6	333.2	359.0	420.6	511.2	661.2	916.4	1215.8	1241.6	1267.4	1293.2
50°	290.8	290.1	315.4	374.6	457.5	603.4	902.3	1277.1	1309.7	1342.3	1374.9
52.5°	242.9	246.2	272.4	329.1	408.8	544.6	860.9	1344.2	1383.2	1422.2	1461.2
55°	196.0	197.4	225.5	278.4	359.3	489.8	789.0	1406.1	1452.0	1497.9	1543.8
57.5°	144.4	148.6	173.2	225.6	309.1	443.6	697.4	1438.0	1494.0	1549.9	1605.8
60°	102.0	105.2	127.0	171.0	254.1	395.0	618.7	1420.2	1492.8	1565.5	1638.1
62.5°	79.4	82.0	99.4	128.0	198.1	346.5	562.2	1362.4	1461.2	1560.0	1658.9
65°	69.7	72.0	87.8	102.4	148.0	297.0	531.4	1301.3	1432.0	1562.6	1693.3
67.5°	63.0	65.8	79.4	89.6	120.5	259.2	523.2	1262.8	1410.7	1558.7	1706.7
69°	60.0	62.7	75.0	83.6	111.9	245.7	509.4	1202.1	1349.2	1496.4	1643.5
70°	58.0	60.4	71.8	80.6	109.2	236.4	486.1	1126.4	1270.9	1415.4	1559.8
72.5°	53.9	55.0	65.0	73.6	101.2	191.1	373.9	836.6	961.8	1087.0	1212.3
75°	47.6	49.0	58.3	66.6	79.0	118.6	236.6	517.4	610.9	704.4	797.9
77.5°	41.1	42.2	50.4	63.6	61.3	74.1	141.4	288.0	342.2	396.4	450.7
80°	33.0	34.3	41.6	63.2	50.7	57.6	101.8	201.4	216.0	230.6	245.2
82.5°	24.2	25.3	32.6	51.1	38.8	43.4	77.6	170.7	175.8	180.9	186.0
85°	12.3	12.6	20.6	31.1	24.6	22.5	43.7	116.8	120.0	123.3	126.5
87.5°	2.1	2.1	4.6	5.4	6.0	3.7	5.6	20.0	20.6	21.2	21.8
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6
2.5°	818.5	818.3	817.9	818.0	818.3	818.1	818.4	818.5	818.8	817.9	817.7
5°	828.3	828.2	828.1	828.1	828.3	828.2	828.4	828.8	828.7	828.1	828.0
7.5°	844.9	844.9	845.2	844.9	845.4	845.2	844.7	845.4	846.0	846.0	846.5
10°	866.8	867.1	867.9	867.8	868.6	868.5	868.6	869.4	870.0	870.0	870.6
12.5°	892.5	893.0	893.4	893.8	894.7	894.2	895.3	895.8	896.5	897.9	897.1
15°	916.8	917.1	918.4	918.5	919.3	919.6	920.6	921.0	921.2	922.4	922.5
17.5°	933.5	933.6	934.1	933.9	934.6	934.3	935.0	935.4	936.0	936.6	937.6
20°	941.1	940.7	940.4	940.2	939.7	939.0	939.2	939.5	939.6	940.2	941.0
22.5°	942.3	941.0	939.5	938.6	937.1	936.0	934.8	934.9	935.0	934.8	935.4
25°	942.4	940.5	938.3	935.6	933.6	931.0	928.8	928.6	927.9	928.0	928.2
27.5°	946.6	944.4	941.4	938.2	934.0	930.5	926.9	925.6	924.4	923.6	923.3
30°	956.8	954.2	950.5	946.6	941.9	936.4	931.3	929.7	927.9	926.3	925.0
32.5°	973.0	970.3	966.2	962.1	956.0	950.5	945.4	942.9	940.3	937.5	935.0
35°	998.8	997.4	993.8	990.2	985.6	981.3	976.8	973.9	969.7	967.5	964.4
37.5°	1035.7	1036.7	1036.8	1037.2	1035.8	1033.7	1030.4	1027.4	1026.0	1020.2	1016.5
40°	1089.8	1095.4	1100.5	1104.4	1107.9	1111.3	1114.4	1112.6	1113.1	1111.6	1109.4
42.5°	1158.8	1170.6	1181.4	1192.3	1200.2	1212.4	1220.9	1223.6	1230.5	1233.1	1238.2
45°	1237.5	1256.4	1274.7	1291.5	1307.1	1324.6	1341.7	1354.4	1368.2	1383.9	1399.6
47.5°	1319.0	1344.8	1371.6	1393.6	1416.2	1442.1	1464.8	1483.8	1508.8	1531.8	1557.2
50°	1407.4	1440.0	1470.6	1497.6	1526.8	1556.7	1587.6	1615.7	1649.4	1686.2	1726.1
52.5°	1500.1	1539.1	1574.4	1608.4	1642.6	1676.8	1709.8	1749.4	1790.9	1839.6	1889.4
55°	1589.8	1635.7	1675.8	1713.5	1752.7	1790.9	1825.0	1878.0	1928.8	1987.0	2052.0
57.5°	1661.7	1717.6	1763.8	1808.7	1852.8	1893.5	1935.3	1995.1	2060.0	2127.9	2210.4
60°	1710.8	1783.4	1842.5	1896.4	1950.5	2001.7	2049.8	2127.9	2205.1	2289.5	2392.2
62.5°	1757.7	1856.6	1933.6	2007.1	2080.1	2145.8	2205.6	2303.9	2404.7	2509.1	2631.3
65°	1823.9	1954.6	2068.0	2170.5	2271.6	2368.1	2457.6	2582.1	2709.4	2846.8	2992.7
67.5°	1854.7	2002.7	2150.4	2288.5	2417.0	2539.1	2654.1	2804.6	2954.5	3113.6	3290.0
69°	1790.6	1937.8	2095.6	2246.6	2388.5	2518.0	2642.4	2796.2	2951.9	3114.5	3292.3
70°	1704.3	1848.8	2008.2	2165.9	2301.6	2436.6	2565.6	2718.1	2875.9	3038.9	3225.0
72.5°	1337.5	1462.8	1618.2	1771.4	1907.5	2043.0	2168.2	2324.3	2483.2	2654.3	2830.6
75°	891.4	984.9	1100.7	1242.8	1367.6	1487.4	1608.8	1740.8	1895.8	2036.8	2198.1
77.5°	504.9	559.1	626.4	718.8	808.4	880.0	966.6	1028.7	1118.7	1196.4	1278.4
80°	259.9	274.5	294.6	316.7	329.4	327.4	340.2	327.5	330.4	320.0	308.8
82.5°	191.1	196.1	205.2	209.7	209.2	194.6	179.1	157.5	138.5	118.6	100.3
85°	129.8	133.0	135.3	138.8	137.8	131.5	117.5	98.8	80.5	64.6	51.7
87.5°	22.5	23.1	22.9	24.9	25.0	23.2	19.0	16.2	13.7	10.2	7.2
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°	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6	815.6
2.5°	817.5	817.5	818.0	817.5	817.5	817.5	817.3	817.8	817.5	816.8	816.1
5°	828.2	827.4	827.2	827.8	828.2	827.2	828.0	828.6	827.5	827.7	827.3
7.5°	846.1	845.8	845.6	846.0	846.1	845.8	846.1	845.4	845.0	845.6	846.3
10°	870.0	869.8	870.2	870.2	871.2	870.6	870.4	871.2	870.7	870.2	870.5
12.5°	898.1	897.4	898.6	898.6	899.2	899.2	899.0	899.2	899.0	898.3	897.9
15°	923.2	922.2	922.5	924.3	924.1	924.6	924.6	924.1	923.8	923.6	923.9
17.5°	938.2	937.8	937.8	938.8	939.4	939.2	939.2	939.2	939.0	939.2	939.7
20°	941.0	941.0	941.3	942.2	943.4	942.7	942.7	943.2	942.7	943.2	943.4
22.5°	935.7	936.2	936.6	937.8	938.0	938.0	938.0	938.3	938.8	938.7	939.2
25°	928.3	928.8	929.4	930.4	931.3	931.3	931.3	931.8	931.8	932.0	932.2
27.5°	922.7	923.2	923.8	924.8	926.0	926.0	926.0	926.4	926.4	926.6	927.1
30°	923.4	922.4	923.2	923.6	924.4	924.4	924.2	924.4	924.6	924.6	924.8
32.5°	933.4	931.3	930.6	930.4	930.6	929.9	929.6	929.2	928.8	928.8	928.5
35°	959.8	956.6	956.4	954.5	952.7	950.8	951.0	949.6	950.1	949.0	948.0
37.5°	1014.2	1010.5	1012.8	1008.9	1006.4	1004.4	1002.4	999.6	998.0	1000.0	1000.0
40°	1111.5	1108.9	1108.3	1109.0	1106.6	1107.8	1102.7	1101.3	1098.3	1100.4	1103.2
42.5°	1245.9	1244.4	1253.2	1254.8	1255.8	1257.2	1258.1	1250.4	1250.2	1248.6	1243.9
45°	1412.1	1421.8	1421.4	1432.0	1432.5	1429.2	1430.6	1427.2	1425.8	1420.6	1426.9
47.5°	1582.8	1601.3	1608.3	1610.6	1619.4	1621.6	1613.1	1610.4	1615.2	1606.9	1608.1
50°	1766.0	1786.0	1802.2	1813.2	1819.4	1819.9	1813.6	1812.2	1816.6	1800.8	1808.3
52.5°	1946.2	1976.4	2007.0	2023.3	2035.0	2035.8	2040.8	2034.9	2037.2	2033.6	2041.0
55°	2123.8	2176.2	2212.2	2244.0	2264.1	2281.6	2283.2	2289.4	2290.0	2297.6	2289.9
57.5°	2297.6	2354.5	2417.2	2473.6	2505.0	2524.7	2543.3	2568.6	2574.2	2571.1	2576.1
60°	2502.6	2590.7	2676.0	2741.0	2795.0	2846.9	2874.7	2914.4	2920.7	2937.9	2923.0
62.5°	2761.9	2889.6	3005.2	3092.8	3175.0	3255.6	3316.4	3347.1	3365.7	3401.7	3389.9
65°	3159.5	3312.8	3465.8	3591.2	3706.4	3802.3	3894.8	3938.8	3987.6	4038.8	4048.0
67.5°	3487.0	3676.7	3849.2	4002.0	4141.6	4248.2	4344.4	4420.8	4480.2	4517.8	4520.9
69°	3501.8	3699.0	3886.4	4050.4	4196.0	4309.3	4410.6	4495.6	4553.4	4592.0	4602.2
70°	3430.8	3632.6	3832.3	3997.8	4147.0	4262.9	4370.2	4451.2	4515.8	4555.0	4568.7
72.5°	3031.0	3246.5	3460.0	3605.1	3757.5	3895.4	3981.4	4064.0	4155.1	4167.0	4204.6
75°	2389.4	2570.5	2736.1	2847.1	2974.4	3098.2	3182.5	3204.3	3251.9	3311.8	3290.4
77.5°	1384.6	1440.4	1547.2	1574.6	1551.4	1605.3	1623.2	1585.0	1583.2	1618.3	1548.6
80°	306.8	289.4	311.2	295.0	295.4	295.9	291.0	289.2	292.6	289.2	284.3
82.5°	85.0	82.2	82.6	81.8	83.4	82.2	81.6	83.4	83.2	82.9	84.5
85°	40.9	40.4	39.7	39.4	38.6	37.3	35.6	35.5	36.5	35.1	35.8
87.5°	5.4	5.1	5.1	6.0	5.3	4.4	4.4	4.4	4.2	4.2	4.2
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)