

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: P148798

Luminaire Tested: **VWM-E03-LED-E1-RW-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148798
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-E03-LED-E1-RW-8030
Description: VISION WALL MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7909.7 lumens
Efficiency: N/A
Efficacy: 105.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

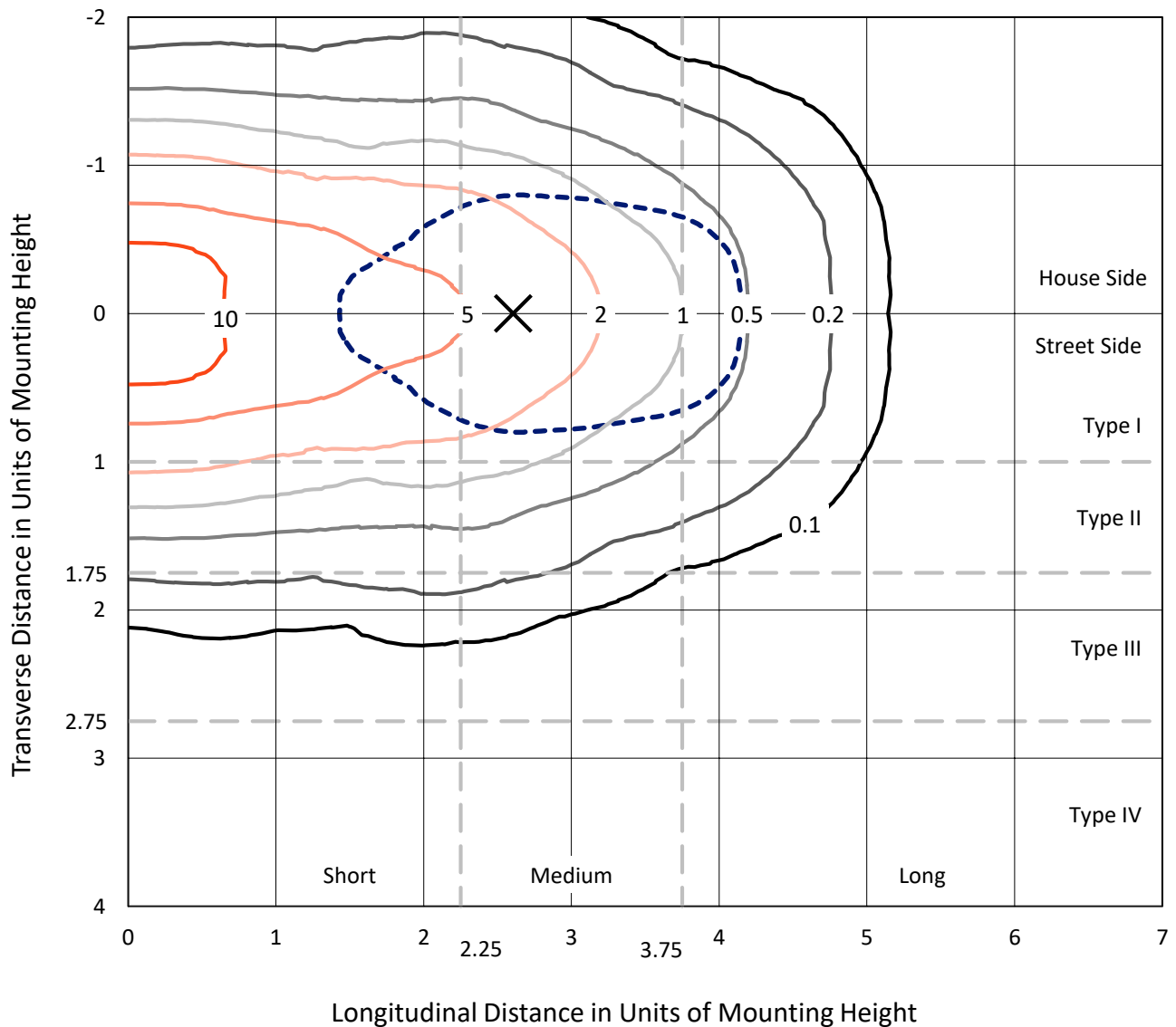
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

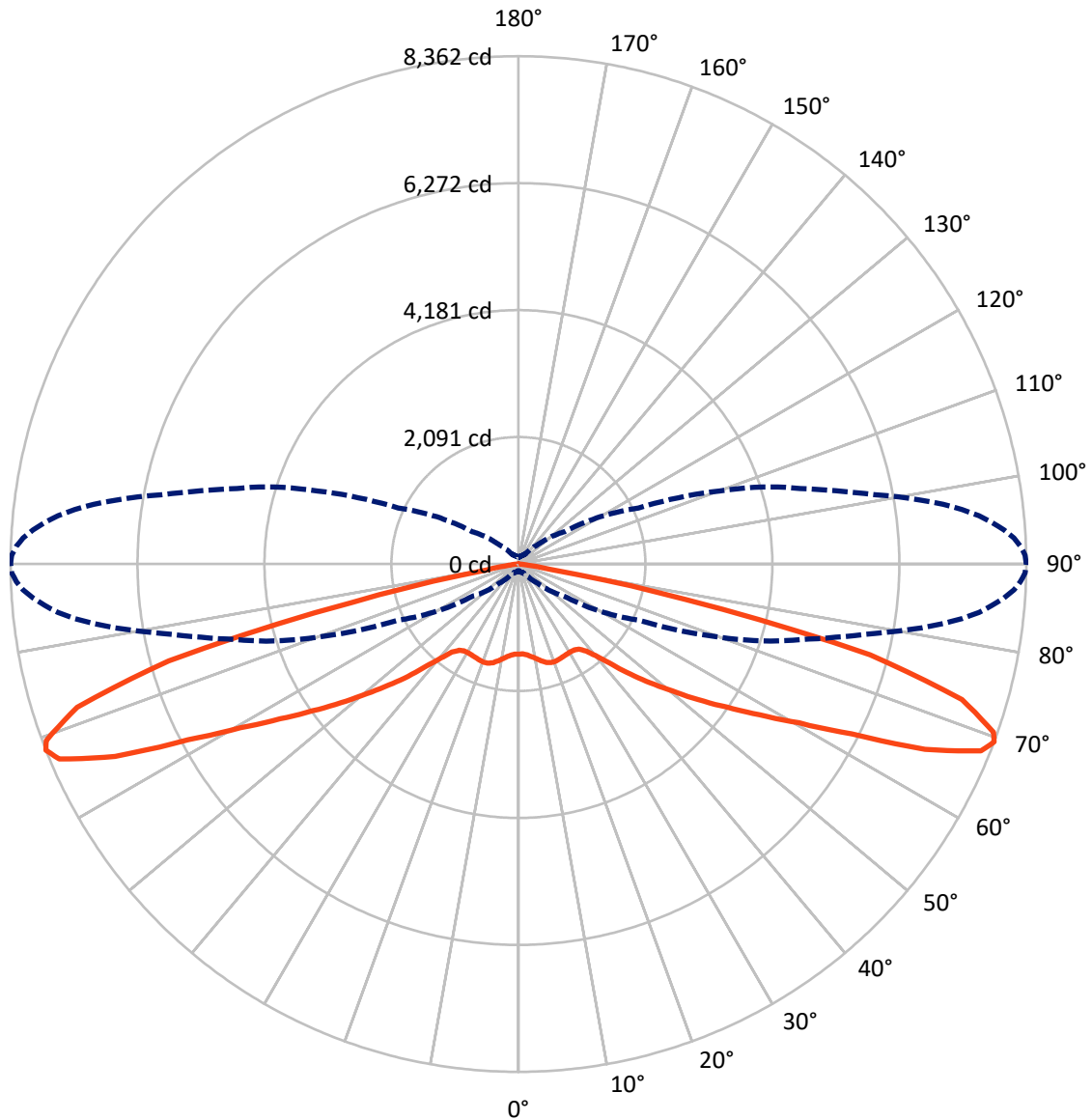
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 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	3954.9	0.0	3954.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	3954.9	0.0	3954.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	7909.7	0.0	7909.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	145.4	1.8
10°-20°	458.6	5.8
20°-30°	743.0	9.4
30°-40°	925.9	11.7
40°-50°	1157.1	14.6
50°-60°	1428.7	18.1
60°-70°	1775.3	22.4
70°-80°	1178.5	14.9
80°-90°	97.3	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°	7909.7	100.0
0°-180°	7909.7	100.0



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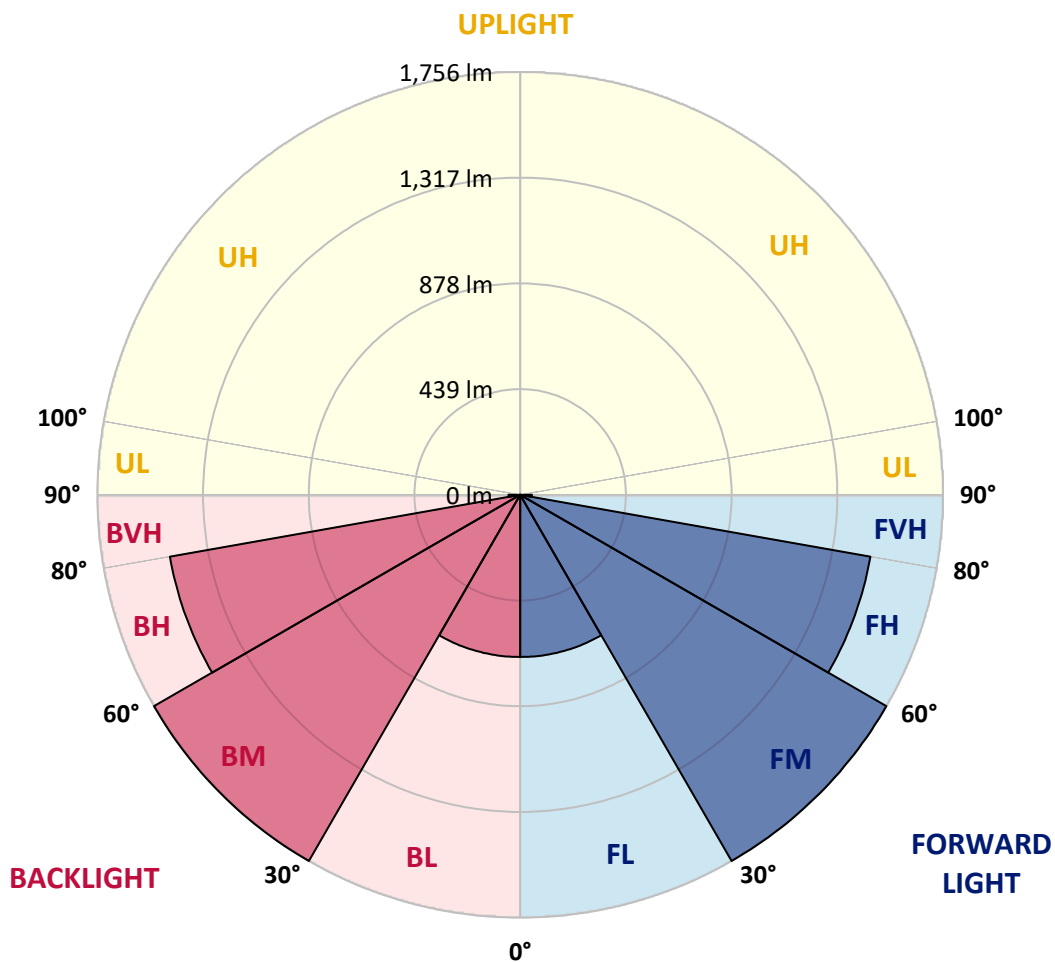
CATALOG NUMBER: VWM-E03-LED-E1-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	673.5	8.5			
FM (30°-60°)	1755.9	22.2			
FH (60°-80°)	1476.9	18.7			G1/1800
FVH (80°-90°)	48.7	0.6			G1/100
BL (0°-30°)	673.5	8.5	B2/1000		
BM (30°-60°)	1755.9	22.2	B2/2500		
BH (60°-80°)	1476.9	18.7	B3/2500		G3/2500
BVH (80°-90°)	48.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1488.8	1490.1	1489.2	1490.9	1490.5	1490.5	1489.6	1487.9	1487.7	1487.5	1487.3
5°	1503.2	1501.4	1504.0	1506.6	1505.7	1506.1	1505.6	1505.6	1505.5	1505.3	1505.2
7.5°	1518.4	1517.9	1519.6	1526.4	1527.2	1529.8	1532.7	1534.8	1534.9	1535.0	1535.0
10°	1531.4	1531.8	1536.0	1545.8	1550.9	1558.8	1566.9	1573.2	1573.7	1574.1	1574.6
12.5°	1542.0	1542.4	1548.7	1563.9	1576.2	1591.4	1608.6	1618.4	1619.2	1620.0	1620.9
15°	1542.8	1544.1	1555.1	1580.0	1604.4	1629.4	1650.0	1663.0	1663.7	1664.4	1665.1
17.5°	1531.8	1532.7	1551.2	1588.0	1628.9	1667.7	1689.2	1695.2	1695.4	1695.7	1695.9
20°	1503.2	1505.2	1531.4	1585.8	1648.3	1699.0	1721.4	1713.3	1712.5	1711.7	1710.9
22.5°	1456.8	1456.3	1490.5	1563.9	1652.1	1723.4	1743.3	1722.2	1719.7	1717.2	1714.7
25°	1381.6	1386.6	1426.8	1514.6	1630.6	1728.9	1758.8	1726.8	1723.2	1719.6	1716.0
27.5°	1300.2	1303.1	1345.8	1439.8	1580.4	1709.9	1766.4	1736.1	1732.1	1728.1	1724.1
30°	1205.2	1209.0	1254.6	1352.9	1499.8	1661.0	1764.4	1757.2	1752.5	1747.8	1743.1
32.5°	1112.4	1116.6	1157.6	1265.2	1415.0	1593.8	1751.7	1787.2	1782.3	1777.5	1772.7
35°	1016.2	1022.4	1072.2	1181.2	1333.0	1519.2	1732.2	1825.6	1822.9	1820.2	1817.6
37.5°	936.4	937.7	985.8	1100.1	1257.1	1447.8	1706.6	1874.0	1876.0	1877.9	1879.9
40°	847.4	855.4	903.5	1024.2	1188.4	1387.5	1682.0	1939.9	1950.0	1960.1	1970.2
42.5°	767.6	768.4	817.4	941.9	1113.6	1339.0	1668.6	2019.2	2040.8	2062.4	2084.0
45°	683.6	687.0	731.3	851.6	1027.6	1281.6	1668.2	2110.8	2145.2	2179.7	2214.1
47.5°	604.3	605.6	652.4	764.2	928.8	1201.4	1665.2	2209.2	2256.0	2302.9	2349.8
50°	528.4	527.1	573.1	680.7	831.4	1096.3	1639.4	2320.6	2379.8	2439.0	2498.2
52.5°	441.4	447.4	495.0	598.0	742.8	989.6	1564.3	2442.5	2513.3	2584.1	2654.9
55°	356.2	358.7	409.8	506.0	652.8	890.0	1433.5	2554.8	2638.2	2721.7	2805.2
57.5°	262.5	270.1	314.8	409.8	561.7	806.1	1267.2	2613.0	2714.6	2816.1	2917.7
60°	185.2	191.1	230.8	310.5	461.7	717.8	1124.2	2580.5	2712.5	2844.5	2976.5
62.5°	144.3	149.0	180.6	232.6	360.0	629.6	1021.6	2475.4	2655.0	2834.6	3014.2
65°	126.6	130.8	159.6	186.1	268.8	539.8	965.5	2364.4	2601.9	2839.3	3076.7
67.5°	114.4	119.4	144.3	162.9	219.0	471.0	950.8	2294.4	2563.3	2832.2	3101.1
69°	108.8	114.0	136.3	152.0	203.4	446.5	925.4	2184.2	2451.5	2718.9	2986.2
70°	105.5	109.8	130.4	146.4	198.4	429.6	883.2	2046.6	2309.2	2571.7	2834.2
72.5°	97.9	100.0	118.2	133.8	184.0	347.3	679.4	1520.0	1747.6	1975.2	2202.8
75°	86.5	89.1	105.9	121.2	143.5	215.6	430.0	940.2	1110.1	1280.0	1449.9
77.5°	74.7	76.8	91.6	115.6	111.4	134.6	257.0	523.3	621.8	720.4	818.9
80°	60.0	62.4	75.5	114.8	92.0	104.7	184.8	365.9	392.5	419.0	445.6
82.5°	43.9	46.0	59.1	92.8	70.5	78.9	141.0	310.2	319.4	328.7	337.9
85°	22.4	22.8	37.6	56.6	44.8	40.9	79.4	212.3	218.2	224.1	230.0
87.5°	3.8	3.8	8.4	9.7	11.0	6.8	10.2	36.3	37.4	38.6	39.7
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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CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1487.1	1486.9	1486.2	1486.3	1486.8	1486.6	1487.1	1487.2	1487.7	1486.1	1485.8
5°	1505.0	1504.8	1504.7	1504.7	1505.0	1505.0	1505.3	1506.0	1505.8	1504.8	1504.6
7.5°	1535.1	1535.2	1535.6	1535.2	1536.1	1535.6	1534.8	1536.2	1537.1	1537.2	1538.1
10°	1575.1	1575.6	1577.0	1576.8	1578.2	1578.1	1578.2	1579.7	1580.7	1580.9	1581.9
12.5°	1621.7	1622.6	1623.3	1624.1	1625.7	1624.7	1626.8	1627.6	1628.9	1631.4	1630.2
15°	1665.8	1666.5	1668.7	1668.9	1670.4	1670.9	1672.8	1673.6	1673.9	1675.9	1676.2
17.5°	1696.2	1696.4	1697.3	1696.9	1698.1	1697.7	1699.0	1699.6	1700.7	1701.8	1703.8
20°	1710.1	1709.3	1708.8	1708.4	1707.5	1706.2	1706.6	1707.2	1707.3	1708.3	1709.7
22.5°	1712.2	1709.7	1707.1	1705.4	1702.8	1700.7	1698.6	1698.7	1698.9	1698.6	1699.6
25°	1712.4	1708.8	1704.8	1700.0	1696.4	1691.6	1687.6	1687.2	1686.0	1686.1	1686.6
27.5°	1720.1	1716.0	1710.5	1704.8	1697.1	1690.6	1684.2	1681.9	1679.6	1678.2	1677.6
30°	1738.5	1733.8	1727.1	1720.0	1711.5	1701.4	1692.2	1689.3	1686.0	1683.2	1680.7
32.5°	1767.9	1763.1	1755.7	1748.2	1737.0	1727.0	1717.9	1713.3	1708.6	1703.6	1698.9
35°	1814.9	1812.2	1805.7	1799.2	1790.9	1783.1	1774.9	1769.7	1761.9	1757.9	1752.3
37.5°	1881.8	1883.8	1883.8	1884.6	1882.1	1878.3	1872.4	1866.9	1864.4	1853.8	1847.1
40°	1980.3	1990.4	1999.6	2006.7	2013.0	2019.3	2024.8	2021.5	2022.6	2019.8	2015.7
42.5°	2105.5	2127.1	2146.8	2166.5	2180.7	2203.0	2218.4	2223.4	2235.8	2240.7	2249.8
45°	2248.6	2283.0	2316.0	2346.6	2375.1	2406.9	2437.9	2460.9	2486.1	2514.6	2543.1
47.5°	2396.7	2443.6	2492.3	2532.2	2573.3	2620.4	2661.5	2696.2	2741.4	2783.3	2829.4
50°	2557.4	2616.6	2672.1	2721.3	2774.2	2828.4	2884.8	2935.7	2996.8	3063.8	3136.4
52.5°	2725.7	2796.6	2860.8	2922.5	2984.6	3046.7	3106.8	3178.7	3254.1	3342.6	3433.1
55°	2888.7	2972.1	3044.9	3113.5	3184.7	3254.1	3316.0	3412.4	3504.8	3610.4	3728.7
57.5°	3019.3	3120.8	3204.9	3286.4	3366.6	3440.5	3516.5	3625.1	3743.0	3866.4	4016.4
60°	3108.5	3240.5	3347.7	3445.7	3544.2	3637.1	3724.5	3866.5	4006.8	4160.1	4346.8
62.5°	3193.8	3373.4	3513.4	3647.0	3779.7	3899.0	4007.7	4186.3	4369.5	4559.1	4781.1
65°	3314.1	3551.5	3757.6	3943.9	4127.6	4302.9	4465.5	4691.8	4923.2	5172.6	5437.7
67.5°	3370.0	3638.9	3907.3	4158.3	4391.7	4613.7	4822.6	5096.1	5368.4	5657.5	5977.9
69°	3253.6	3520.9	3807.8	4082.1	4339.9	4575.3	4801.5	5080.8	5363.8	5659.1	5982.3
70°	3096.8	3359.3	3648.9	3935.6	4182.2	4427.5	4661.8	4938.9	5225.7	5521.7	5860.0
72.5°	2430.4	2658.0	2940.4	3218.6	3466.0	3712.2	3939.8	4223.3	4512.0	4823.0	5143.3
75°	1619.8	1789.7	2000.1	2258.2	2485.0	2702.6	2923.1	3163.0	3444.7	3701.0	3994.0
77.5°	917.4	1016.0	1138.2	1306.0	1468.8	1599.1	1756.3	1869.2	2032.6	2173.8	2322.9
80°	472.2	498.8	535.2	575.5	598.5	594.8	618.2	595.1	600.3	581.3	561.2
82.5°	347.2	356.4	372.9	380.9	380.1	353.6	325.4	286.2	251.7	215.4	182.2
85°	235.9	241.8	245.9	252.2	250.4	238.9	213.5	179.5	146.3	117.4	93.9
87.5°	40.8	42.0	41.7	45.2	45.3	42.1	34.6	29.6	24.9	18.6	13.1
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°	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0	1482.0
2.5°	1485.4	1485.4	1486.2	1485.4	1485.4	1485.4	1485.0	1485.8	1485.4	1484.1	1482.9
5°	1504.9	1503.6	1503.2	1504.0	1504.8	1503.2	1504.4	1505.7	1503.6	1504.0	1503.1
7.5°	1537.4	1536.9	1536.4	1537.4	1537.4	1536.9	1537.3	1536.1	1535.2	1536.5	1537.8
10°	1580.8	1580.4	1581.2	1581.2	1582.9	1582.0	1581.6	1582.9	1582.1	1581.2	1581.6
12.5°	1631.9	1630.6	1632.7	1632.7	1634.0	1634.0	1633.6	1634.0	1633.6	1632.2	1631.4
15°	1677.4	1675.8	1676.2	1679.6	1679.1	1680.0	1680.0	1679.2	1678.7	1678.3	1678.7
17.5°	1704.8	1704.0	1704.0	1705.7	1707.0	1706.6	1706.6	1706.6	1706.2	1706.6	1707.4
20°	1709.9	1709.9	1710.4	1712.0	1714.2	1712.9	1712.9	1713.7	1712.8	1713.8	1714.1
22.5°	1700.2	1701.1	1702.0	1704.0	1704.4	1704.4	1704.4	1704.9	1705.7	1705.7	1706.5
25°	1686.7	1687.6	1688.8	1690.5	1692.2	1692.2	1692.2	1693.0	1693.0	1693.5	1693.9
27.5°	1676.6	1677.4	1678.7	1680.4	1682.5	1682.5	1682.5	1683.4	1683.4	1683.8	1684.6
30°	1677.8	1676.2	1677.4	1678.2	1679.6	1679.6	1679.1	1679.6	1680.0	1680.0	1680.4
32.5°	1696.0	1692.2	1690.9	1690.5	1690.9	1689.7	1689.2	1688.4	1687.6	1687.6	1687.1
35°	1744.1	1738.2	1737.8	1734.4	1731.0	1727.6	1728.0	1725.5	1726.4	1724.3	1722.6
37.5°	1842.8	1836.1	1840.4	1833.2	1828.5	1825.1	1821.4	1816.2	1813.3	1817.1	1817.1
40°	2019.7	2015.0	2013.8	2015.0	2010.8	2013.0	2003.6	2001.1	1995.6	1999.4	2004.5
42.5°	2264.0	2261.0	2277.0	2280.0	2281.8	2284.2	2286.0	2272.0	2271.6	2268.6	2260.2
45°	2565.8	2583.5	2582.6	2602.0	2602.8	2597.0	2599.4	2593.2	2590.6	2581.4	2592.7
47.5°	2875.9	2909.6	2922.4	2926.6	2942.6	2946.4	2931.2	2926.1	2935.0	2919.8	2921.9
50°	3208.8	3245.1	3274.7	3294.6	3305.9	3306.8	3295.4	3292.8	3300.8	3272.2	3285.7
52.5°	3536.4	3591.2	3646.9	3676.4	3697.6	3699.2	3708.0	3697.6	3701.8	3695.0	3708.5
55°	3859.2	3954.1	4019.5	4077.3	4114.0	4145.7	4148.6	4160.0	4160.8	4174.8	4160.9
57.5°	4174.8	4278.2	4392.2	4494.6	4551.6	4587.5	4621.2	4667.2	4677.4	4671.9	4680.8
60°	4547.4	4707.4	4862.2	4980.4	5078.7	5172.8	5223.4	5295.6	5307.0	5338.2	5311.2
62.5°	5018.4	5250.5	5460.6	5619.8	5769.1	5915.6	6026.1	6081.8	6115.6	6181.0	6159.4
65°	5740.8	6019.4	6297.4	6525.3	6734.6	6908.9	7076.8	7157.0	7245.6	7338.5	7355.4
67.5°	6335.8	6680.6	6994.2	7271.8	7525.4	7719.1	7893.8	8032.6	8140.7	8209.0	8214.6
69°	6362.8	6721.2	7061.7	7359.6	7624.2	7830.1	8014.1	8168.6	8273.6	8343.6	8362.3
70°	6233.8	6600.4	6963.3	7264.2	7535.2	7745.7	7940.7	8087.9	8205.2	8276.6	8301.5
72.5°	5507.4	5899.1	6286.9	6550.6	6827.4	7078.1	7234.3	7384.5	7550.0	7571.4	7639.8
75°	4341.5	4670.6	4971.6	5173.2	5404.5	5629.4	5782.6	5822.3	5908.8	6017.6	5978.8
77.5°	2516.0	2617.2	2811.3	2861.1	2819.0	2916.8	2949.4	2880.2	2876.8	2940.4	2813.9
80°	557.4	525.8	565.5	536.0	536.8	537.6	528.8	525.4	531.8	525.3	516.5
82.5°	154.4	149.4	150.2	148.6	151.5	149.4	148.2	151.5	151.0	150.6	153.6
85°	74.3	73.4	72.2	71.8	70.1	67.9	64.6	64.6	66.3	63.8	65.0
87.5°	9.7	9.3	9.2	11.0	9.7	8.0	8.0	8.0	7.6	7.6	7.6
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)