

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: P148814

Luminaire Tested: **VWM-F04-LED-E1-RW-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148814
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-F04-LED-E1-RW-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9421.7 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type I - Short - Full Cutoff
BUG Rating: B3 - U0 - G3

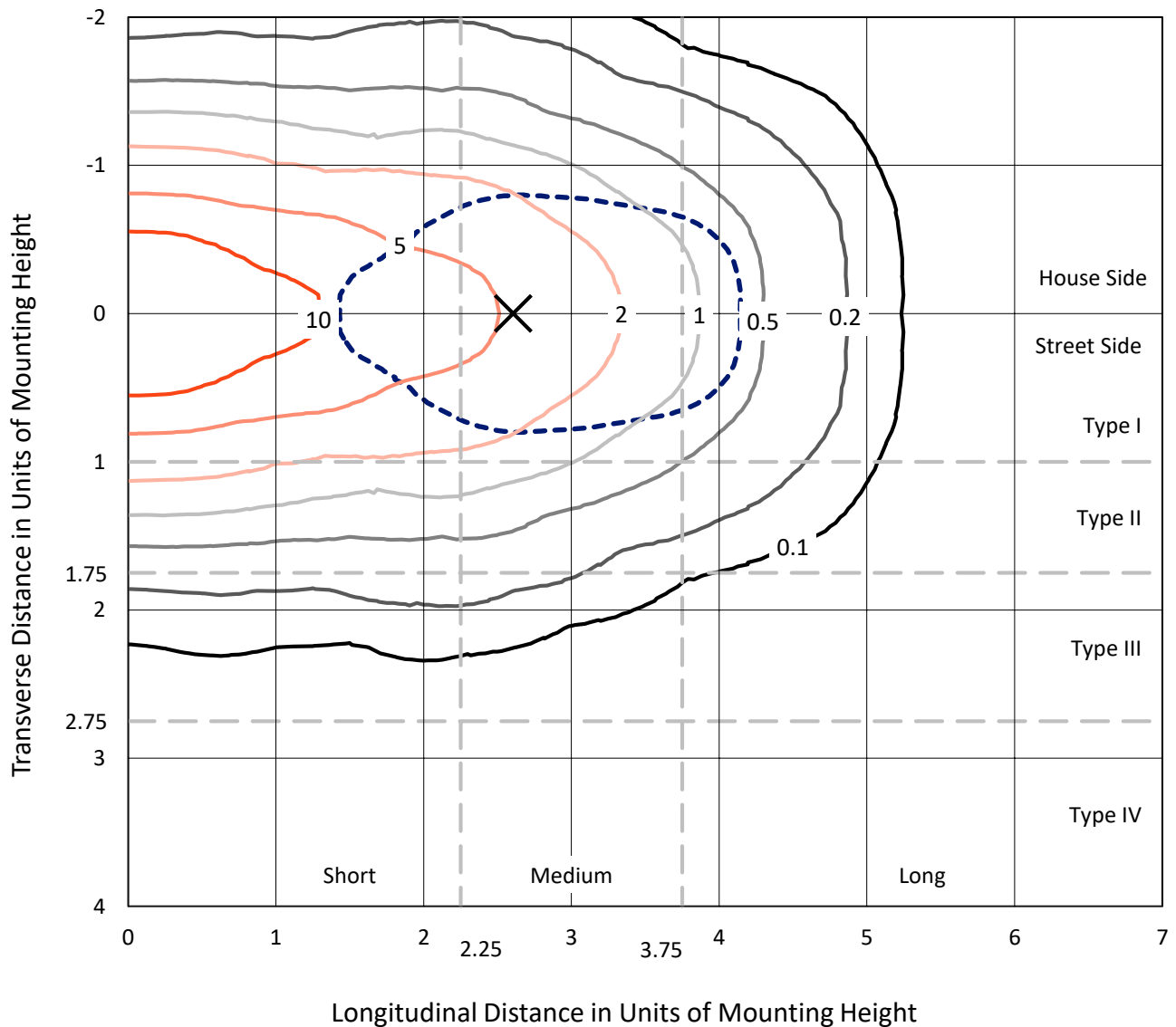
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

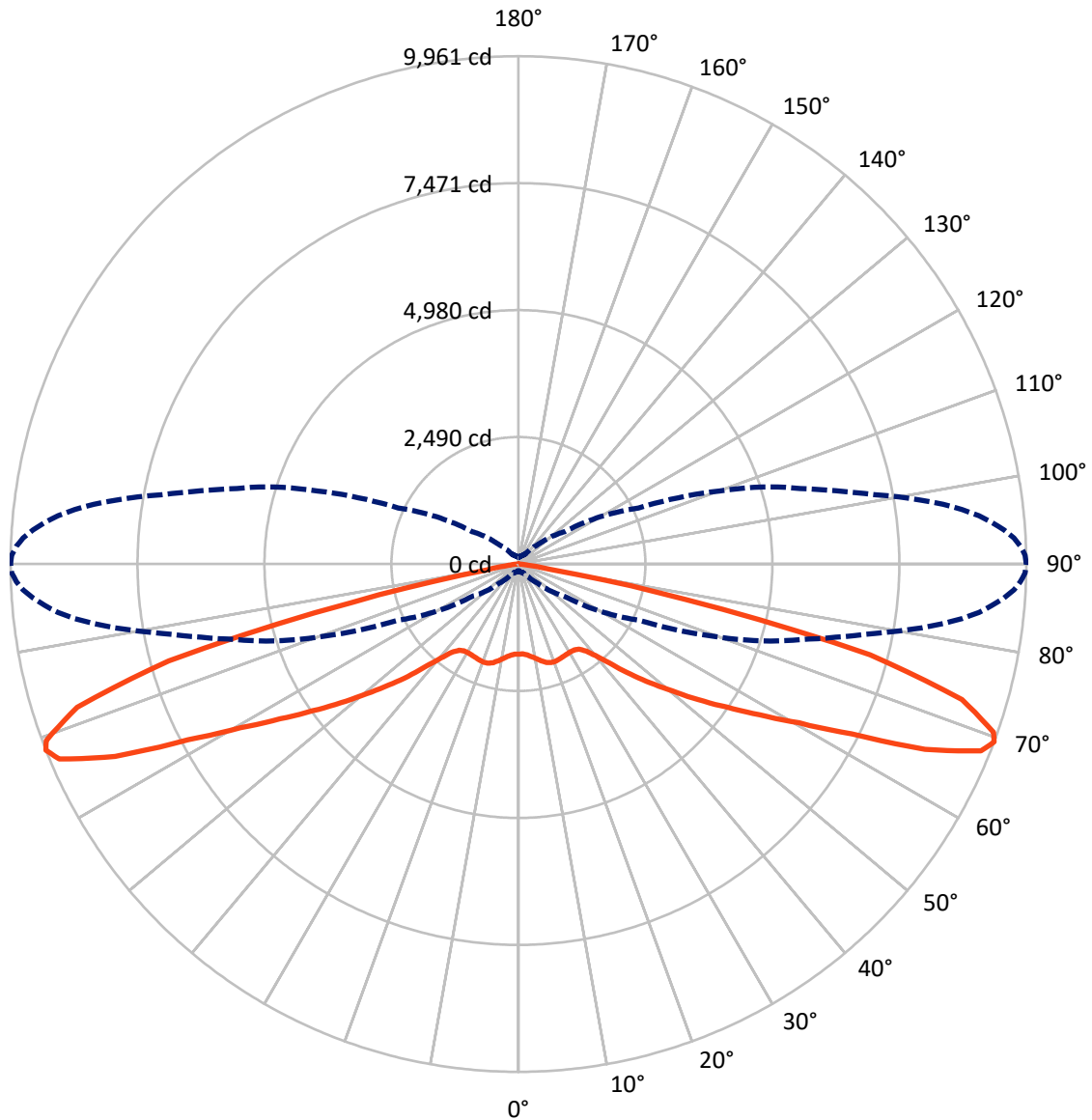
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.1 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	4710.9	0.0	4710.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4710.9	0.0	4710.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	9421.7	0.0	9421.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	173.2	1.8
10°-20°	546.3	5.8
20°-30°	885.0	9.4
30°-40°	1102.9	11.7
40°-50°	1378.2	14.6
50°-60°	1701.8	18.1
60°-70°	2114.6	22.4
70°-80°	1403.8	14.9
80°-90°	115.9	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°	9421.7	100.0
0°-180°	9421.7	100.0



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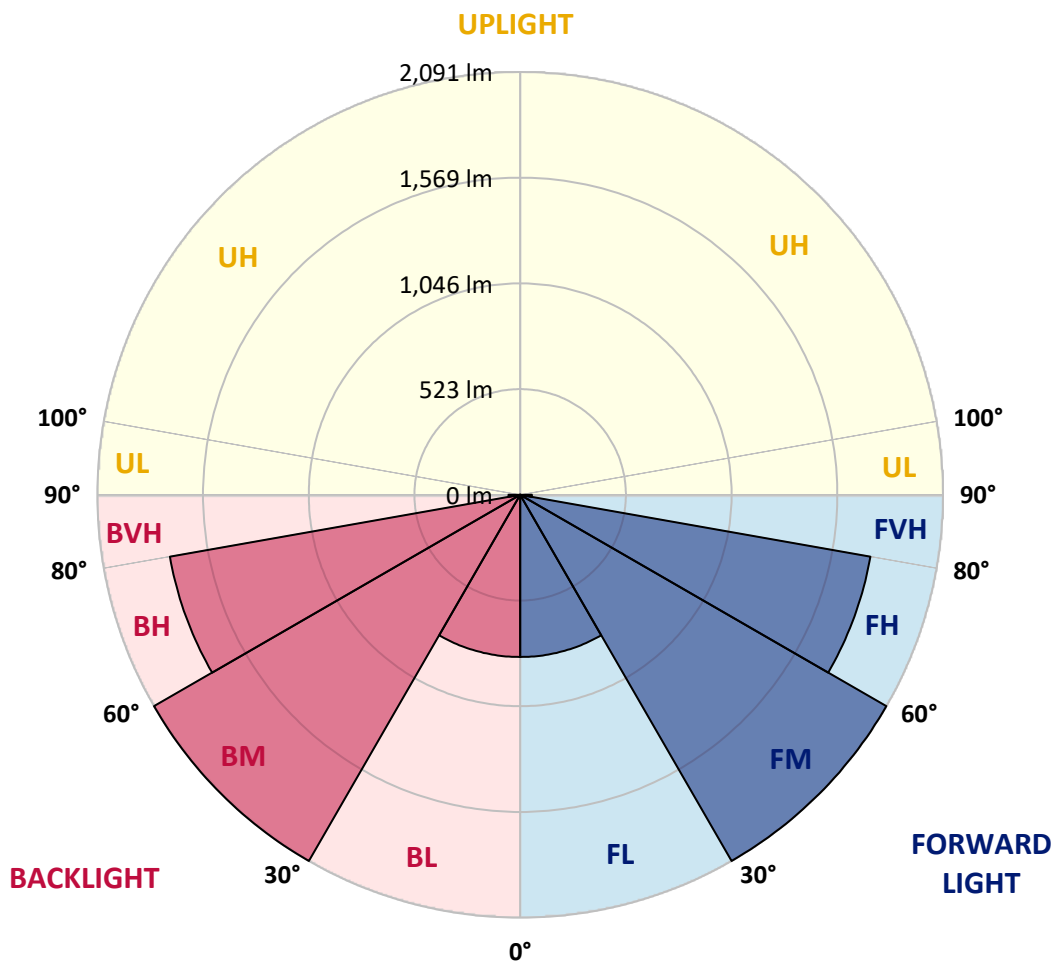
CATALOG NUMBER: VWM-F04-LED-E1-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	802.2	8.5			
FM	(30°-60°)	2091.5	22.2			
FH	(60°-80°)	1759.2	18.7			G1/1800
FVH	(80°-90°)	58.0	0.6			G1/100
BL	(0°-30°)	802.2	8.5	B2/1000		
BM	(30°-60°)	2091.5	22.2	B2/2500		
BH	(60°-80°)	1759.2	18.7	B3/2500		G3/2500
BVH	(80°-90°)	58.0	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°	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4
2.5°	1773.4	1774.9	1773.9	1775.9	1775.4	1775.4	1774.4	1772.4	1772.1	1771.9	1771.6
5°	1790.4	1788.4	1791.4	1794.5	1793.5	1794.0	1793.5	1793.5	1793.3	1793.1	1792.9
7.5°	1808.6	1808.0	1810.1	1818.2	1819.2	1822.2	1825.7	1828.2	1828.3	1828.4	1828.5
10°	1824.2	1824.7	1829.7	1841.2	1847.2	1856.8	1866.4	1874.0	1874.5	1875.1	1875.6
12.5°	1836.7	1837.2	1844.8	1862.8	1877.4	1895.5	1916.2	1927.7	1928.7	1929.7	1930.7
15°	1837.8	1839.2	1852.4	1882.0	1911.2	1940.8	1965.4	1981.0	1981.8	1982.6	1983.4
17.5°	1824.6	1825.6	1847.8	1891.5	1940.3	1986.5	2012.2	2019.2	2019.5	2019.8	2020.1
20°	1790.5	1793.0	1824.2	1889.0	1963.4	2023.7	2050.4	2040.8	2039.8	2038.9	2037.9
22.5°	1735.2	1734.7	1775.4	1862.8	1968.0	2052.9	2076.5	2051.4	2048.4	2045.4	2042.5
25°	1645.7	1651.8	1699.5	1804.0	1942.3	2059.4	2095.1	2056.9	2052.6	2048.4	2044.1
27.5°	1548.7	1552.2	1603.0	1715.0	1882.4	2036.8	2104.1	2068.0	2063.2	2058.4	2053.6
30°	1435.6	1440.1	1494.4	1611.6	1786.4	1978.5	2101.6	2093.1	2087.5	2081.9	2076.4
32.5°	1325.0	1330.0	1378.8	1506.9	1685.4	1898.6	2086.6	2128.8	2123.1	2117.3	2111.6
35°	1210.4	1218.0	1277.2	1407.0	1587.9	1809.6	2063.4	2174.5	2171.3	2168.2	2165.0
37.5°	1115.4	1117.0	1174.2	1310.4	1497.4	1724.6	2032.8	2232.4	2234.7	2237.0	2239.3
40°	1009.4	1018.9	1076.2	1220.0	1415.5	1652.8	2003.6	2310.8	2322.8	2334.8	2346.8
42.5°	914.4	915.4	973.6	1121.9	1326.6	1594.9	1987.5	2405.2	2430.9	2456.6	2482.3
45°	814.3	818.4	871.2	1014.4	1224.0	1526.6	1987.0	2514.3	2555.3	2596.3	2637.3
47.5°	719.8	721.3	777.1	910.3	1106.4	1431.1	1983.5	2631.4	2687.3	2743.1	2799.0
50°	629.3	627.8	682.6	810.8	990.2	1305.9	1952.8	2764.1	2834.6	2905.1	2975.7
52.5°	525.8	532.8	589.6	712.2	884.7	1178.8	1863.4	2909.4	2993.8	3078.1	3162.5
55°	424.2	427.2	488.0	602.7	777.6	1060.2	1707.6	3043.1	3142.5	3242.0	3341.4
57.5°	312.6	321.7	375.0	488.1	669.0	960.1	1509.5	3112.5	3233.5	3354.5	3475.5
60°	220.6	227.7	275.0	370.0	550.0	855.0	1339.1	3073.8	3231.0	3388.2	3545.5
62.5°	171.9	177.4	215.2	277.0	428.8	750.0	1216.9	2948.6	3162.6	3376.5	3590.4
65°	150.8	155.8	190.0	221.6	320.2	642.9	1150.1	2816.4	3099.2	3382.0	3664.8
67.5°	136.2	142.3	171.9	194.0	260.9	561.0	1132.5	2733.0	3053.2	3373.5	3693.8
69°	129.7	135.7	162.4	181.0	242.3	531.8	1102.4	2601.8	2920.2	3238.7	3557.1
70°	125.7	130.7	155.3	174.4	236.2	511.7	1052.1	2437.9	2750.6	3063.3	3376.0
72.5°	116.6	119.1	140.8	159.4	219.2	413.7	809.3	1810.6	2081.7	2352.8	2623.9
75°	103.0	106.0	126.2	144.2	170.9	256.8	512.2	1120.0	1322.3	1524.7	1727.0
77.5°	89.0	91.5	109.1	137.8	132.7	160.4	306.1	623.3	740.7	858.0	975.4
80°	71.4	74.4	90.0	136.8	109.6	124.6	220.2	435.8	467.5	499.2	530.8
82.5°	52.3	54.8	70.4	110.6	83.9	94.0	167.9	369.5	380.5	391.5	402.5
85°	26.6	27.2	44.8	67.4	53.3	48.8	94.5	252.8	259.9	266.9	274.0
87.5°	4.5	4.5	10.0	11.6	13.0	8.0	12.0	43.2	44.6	45.9	47.3
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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4
2.5°	1771.4	1771.1	1770.2	1770.4	1771.0	1770.7	1771.4	1771.4	1772.0	1770.2	1769.8
5°	1792.7	1792.5	1792.4	1792.3	1792.7	1792.6	1793.0	1793.8	1793.6	1792.4	1792.2
7.5°	1828.6	1828.7	1829.2	1828.7	1829.7	1829.2	1828.2	1829.8	1830.9	1831.0	1832.1
10°	1876.2	1876.7	1878.5	1878.2	1880.0	1879.7	1880.0	1881.7	1882.9	1883.1	1884.3
12.5°	1931.8	1932.8	1933.7	1934.6	1936.5	1935.3	1937.8	1938.8	1940.3	1943.3	1941.8
15°	1984.2	1985.0	1987.7	1987.9	1989.6	1990.3	1992.6	1993.4	1993.8	1996.2	1996.6
17.5°	2020.4	2020.7	2021.7	2021.2	2022.7	2022.2	2023.8	2024.6	2025.8	2027.2	2029.4
20°	2037.0	2036.0	2035.5	2034.9	2033.8	2032.3	2032.8	2033.5	2033.7	2034.9	2036.6
22.5°	2039.5	2036.5	2033.5	2031.4	2028.3	2025.8	2023.2	2023.4	2023.6	2023.3	2024.5
25°	2039.8	2035.5	2030.8	2025.0	2020.7	2014.9	2010.2	2009.7	2008.3	2008.4	2009.0
27.5°	2048.9	2044.1	2037.4	2030.7	2021.5	2013.8	2006.2	2003.4	2000.7	1999.0	1998.3
30°	2070.8	2065.2	2057.2	2048.7	2038.7	2026.7	2015.7	2012.3	2008.3	2004.9	2002.0
32.5°	2105.9	2100.1	2091.3	2082.5	2069.1	2057.2	2046.4	2040.8	2035.3	2029.2	2023.7
35°	2161.9	2158.7	2150.9	2143.1	2133.3	2124.0	2114.2	2108.0	2098.7	2094.0	2087.2
37.5°	2241.6	2243.9	2243.9	2244.9	2241.9	2237.3	2230.3	2223.8	2220.8	2208.2	2200.1
40°	2358.8	2370.8	2381.8	2390.3	2397.8	2405.3	2411.8	2408.0	2409.2	2405.8	2401.0
42.5°	2508.0	2533.7	2557.2	2580.6	2597.6	2624.1	2642.5	2648.3	2663.2	2669.0	2679.9
45°	2678.4	2719.4	2758.8	2795.2	2829.1	2867.0	2903.9	2931.3	2961.3	2995.3	3029.3
47.5°	2854.8	2910.6	2968.7	3016.2	3065.2	3121.3	3170.3	3211.6	3265.5	3315.4	3370.3
50°	3046.2	3116.7	3182.8	3241.4	3304.5	3369.1	3436.2	3496.9	3569.7	3649.5	3735.9
52.5°	3246.8	3331.1	3407.6	3481.1	3555.1	3629.1	3700.6	3786.3	3876.1	3981.5	4089.3
55°	3440.8	3540.2	3627.0	3708.7	3793.5	3876.2	3949.9	4064.6	4174.8	4300.6	4441.4
57.5°	3596.5	3717.4	3817.5	3914.6	4010.1	4098.1	4188.6	4318.0	4458.5	4605.5	4784.2
60°	3702.7	3860.0	3987.7	4104.5	4221.7	4332.4	4436.5	4605.6	4772.7	4955.3	5177.7
62.5°	3804.4	4018.3	4185.0	4344.1	4502.3	4644.3	4773.8	4986.5	5204.8	5430.5	5695.1
65°	3947.6	4230.4	4475.9	4697.8	4916.6	5125.4	5319.2	5588.7	5864.2	6161.4	6477.2
67.5°	4014.1	4334.4	4654.1	4953.2	5231.2	5495.6	5744.4	6070.2	6394.5	6739.0	7120.6
69°	3875.5	4194.0	4535.7	4862.4	5169.5	5449.9	5719.2	6051.9	6389.1	6740.9	7125.8
70°	3688.7	4001.4	4346.4	4687.9	4981.6	5273.8	5552.9	5883.0	6224.6	6577.3	6980.2
72.5°	2895.0	3166.0	3502.4	3833.9	4128.6	4421.8	4692.8	5030.7	5374.5	5745.0	6126.5
75°	1929.4	2131.8	2382.4	2689.8	2960.1	3219.2	3481.9	3767.6	4103.1	4408.4	4757.5
77.5°	1092.8	1210.2	1355.8	1555.7	1749.6	1904.8	2092.1	2226.5	2421.2	2589.3	2767.0
80°	562.5	594.2	637.6	685.6	712.9	708.6	736.4	708.9	715.0	692.4	668.4
82.5°	413.5	424.5	444.2	453.8	452.8	421.2	387.6	340.9	299.8	256.7	217.1
85°	281.0	288.0	293.0	300.4	298.3	284.6	254.4	213.8	174.3	139.8	111.9
87.5°	48.6	50.0	49.6	53.8	54.0	50.1	41.2	35.2	29.7	22.1	15.6
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°	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4	1765.4
2.5°	1769.4	1769.4	1770.4	1769.4	1769.4	1769.4	1768.9	1769.9	1769.4	1767.9	1766.4
5°	1792.4	1791.0	1790.4	1791.5	1792.5	1790.5	1792.0	1793.5	1791.0	1791.5	1790.5
7.5°	1831.2	1830.7	1830.2	1831.2	1831.2	1830.7	1831.2	1829.7	1828.7	1830.2	1831.7
10°	1883.0	1882.4	1883.4	1883.4	1885.4	1884.5	1884.0	1885.5	1884.5	1883.5	1884.0
12.5°	1943.8	1942.2	1944.8	1944.8	1946.3	1946.3	1945.8	1946.3	1945.8	1944.3	1943.3
15°	1998.0	1996.0	1996.6	2000.6	2000.1	2001.1	2001.1	2000.1	1999.6	1999.1	1999.6
17.5°	2030.8	2029.8	2029.8	2031.8	2033.3	2032.8	2032.8	2032.8	2032.3	2032.8	2033.8
20°	2036.8	2036.8	2037.3	2039.3	2041.8	2040.3	2040.3	2041.3	2040.3	2041.3	2041.8
22.5°	2025.2	2026.2	2027.2	2029.8	2030.2	2030.2	2030.2	2030.8	2031.8	2031.8	2032.8
25°	2009.2	2010.2	2011.7	2013.7	2015.7	2015.7	2015.7	2016.7	2016.6	2017.2	2017.7
27.5°	1997.1	1998.0	1999.6	2001.6	2004.1	2004.1	2004.1	2005.1	2005.2	2005.6	2006.6
30°	1998.6	1996.6	1998.1	1999.1	2000.6	2000.6	2000.1	2000.6	2001.1	2001.1	2001.6
32.5°	2020.2	2015.7	2014.2	2013.6	2014.2	2012.6	2012.2	2011.2	2010.2	2010.2	2009.6
35°	2077.5	2070.5	2070.0	2066.0	2062.0	2057.9	2058.4	2055.4	2056.4	2053.9	2051.9
37.5°	2195.1	2187.1	2192.1	2183.6	2178.0	2174.0	2169.5	2163.4	2160.0	2164.5	2164.5
40°	2405.8	2400.2	2398.7	2400.2	2395.1	2397.7	2386.6	2383.6	2377.1	2381.6	2387.6
42.5°	2696.8	2693.2	2712.4	2715.9	2717.9	2720.9	2723.0	2706.3	2705.8	2702.3	2692.3
45°	3056.2	3077.3	3076.2	3099.4	3100.4	3093.4	3096.4	3088.8	3085.8	3074.8	3088.4
47.5°	3425.6	3465.8	3480.9	3486.0	3505.0	3509.6	3491.5	3485.4	3496.0	3478.0	3480.4
50°	3822.2	3865.5	3900.7	3924.2	3937.9	3938.8	3925.3	3922.2	3931.8	3897.6	3913.7
52.5°	4212.3	4277.6	4344.0	4379.2	4404.4	4406.3	4416.9	4404.4	4409.4	4401.3	4417.4
55°	4596.8	4709.9	4787.8	4856.7	4900.4	4938.2	4941.7	4955.2	4956.2	4972.8	4956.3
57.5°	4972.8	5096.0	5231.7	5353.8	5421.8	5464.4	5504.6	5559.5	5571.6	5565.0	5575.5
60°	5416.7	5607.2	5791.7	5932.4	6049.5	6161.7	6222.0	6308.0	6321.5	6358.6	6326.5
62.5°	5977.6	6254.1	6504.4	6694.0	6871.9	7046.3	7178.0	7244.4	7284.6	7362.4	7336.9
65°	6838.2	7170.0	7501.2	7772.6	8022.0	8229.6	8429.7	8525.2	8630.7	8741.3	8761.4
67.5°	7546.9	7957.6	8331.2	8661.9	8964.0	9194.7	9402.8	9568.2	9696.9	9778.3	9784.8
69°	7579.2	8005.9	8411.6	8766.4	9081.6	9326.9	9546.0	9730.0	9855.2	9938.6	9960.8
70°	7425.4	7862.2	8294.4	8652.8	8975.6	9226.4	9458.6	9634.0	9773.8	9858.7	9888.4
72.5°	6560.2	7026.7	7488.6	7802.8	8132.6	8431.2	8617.2	8796.1	8993.1	9018.8	9100.2
75°	5171.4	5563.4	5921.8	6162.2	6437.6	6705.5	6888.0	6935.2	7038.3	7168.0	7121.7
77.5°	2996.9	3117.6	3348.7	3408.0	3357.8	3474.4	3513.2	3430.7	3426.6	3502.6	3351.8
80°	664.0	626.4	673.6	638.4	639.4	640.4	629.8	625.8	633.3	625.8	615.3
82.5°	184.0	178.0	179.0	177.0	180.4	178.0	176.4	180.5	180.0	179.4	183.0
85°	88.4	87.4	85.9	85.4	83.4	81.0	76.9	76.9	78.9	75.9	77.4
87.5°	11.6	11.0	11.1	13.1	11.6	9.6	9.6	9.6	9.0	9.0	9.0
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)