

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: P148800

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P148800
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
Description: VISION WALL MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9371.8 lumens
Efficiency: N/A
Efficacy: 124.6 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

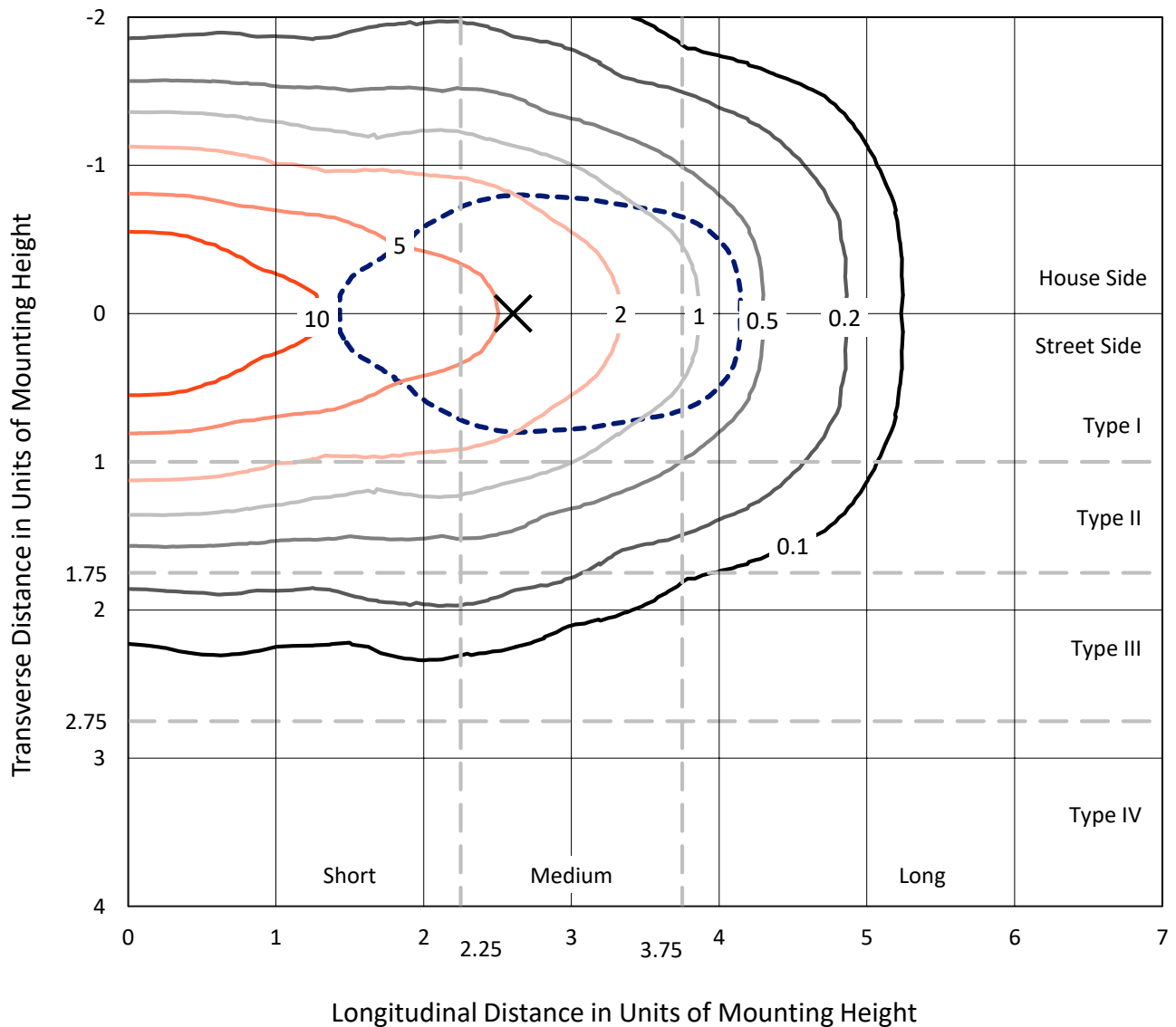


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Iso-Footcandle Lines of Horizontal Illumination

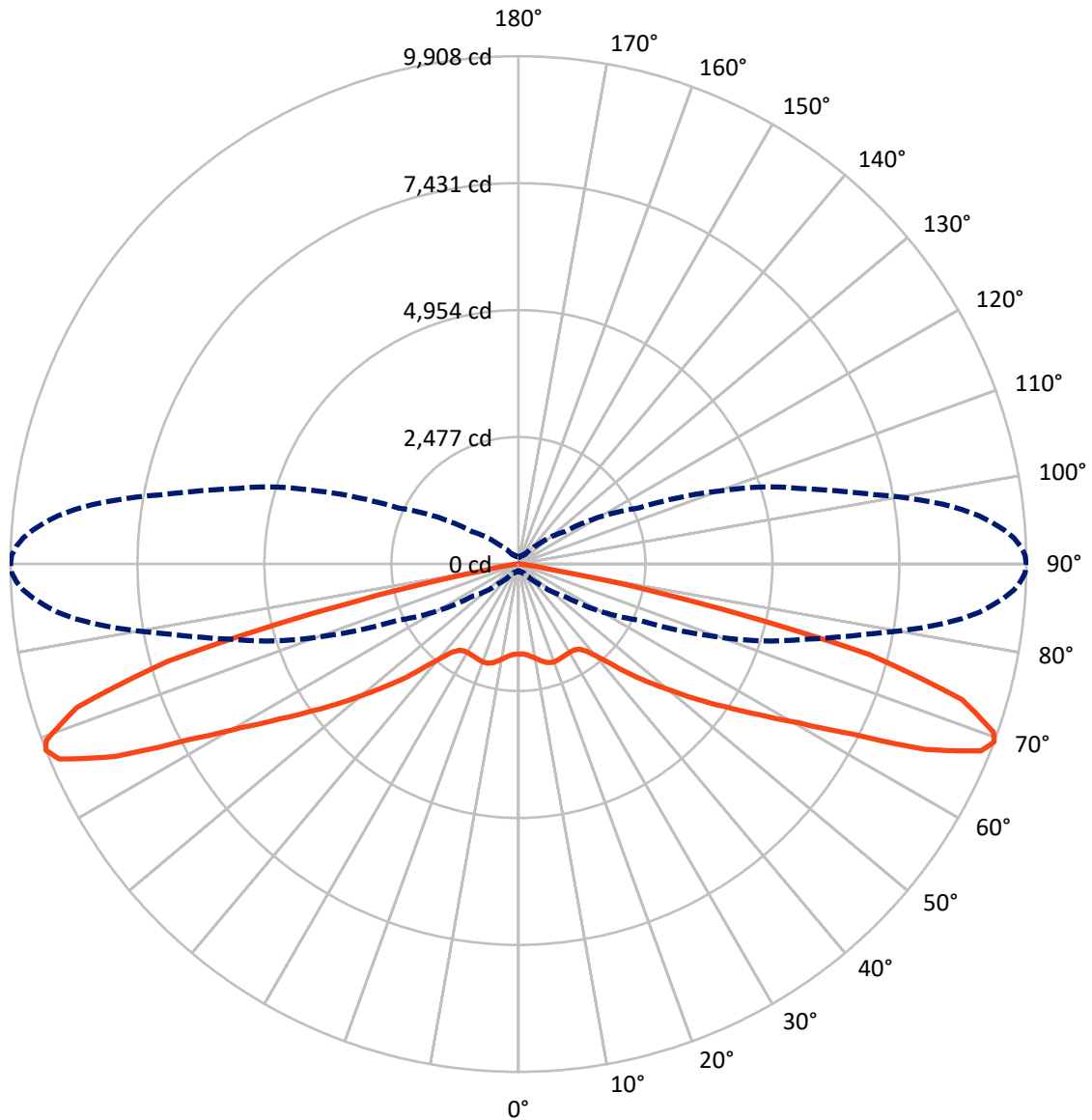
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18 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	4685.9	0.0	4685.9
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	4685.9	0.0	4685.9
	% Fixture	50.0	0.0	50.0
Total	Lumens	9371.8	0.0	9371.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	172.2	1.8
10°-20°	543.4	5.8
20°-30°	880.3	9.4
30°-40°	1097.1	11.7
40°-50°	1370.9	14.6
50°-60°	1692.8	18.1
60°-70°	2103.4	22.4
70°-80°	1396.4	14.9
80°-90°	115.3	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°	9371.8	100.0
0°-180°	9371.8	100.0



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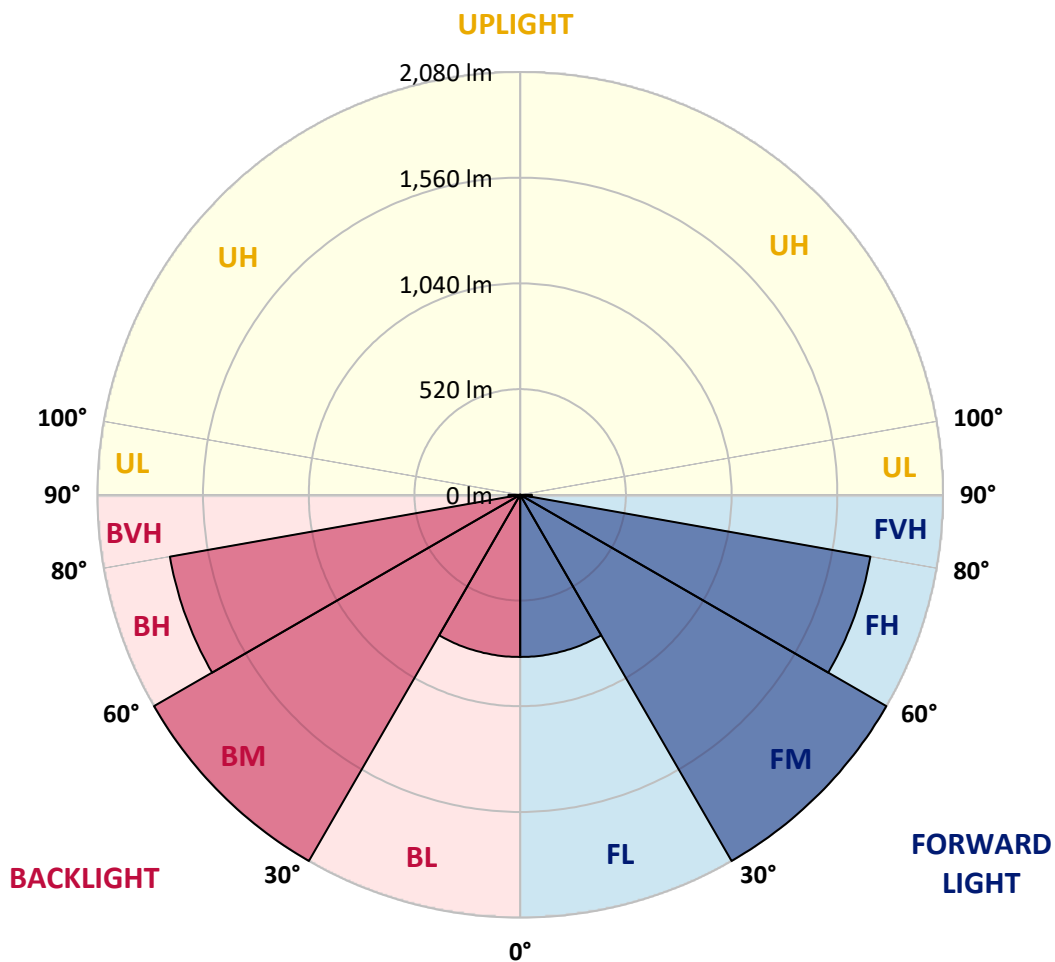
CATALOG NUMBER: VWM-E03-LED-E1-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	798.0	8.5			
FM	(30°-60°)	2080.4	22.2			
FH	(60°-80°)	1749.9	18.7			G1/1800
FVH	(80°-90°)	57.6	0.6			G1/100
BL	(0°-30°)	798.0	8.5	B2/1000		
BM	(30°-60°)	2080.4	22.2	B2/2500		
BH	(60°-80°)	1749.9	18.7	B3/2500		G3/2500
BVH	(80°-90°)	57.6	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°	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0
2.5°	1764.0	1765.5	1764.5	1766.5	1766.0	1766.0	1765.0	1763.0	1762.8	1762.5	1762.2
5°	1781.0	1779.0	1782.0	1785.0	1784.0	1784.5	1784.0	1784.0	1783.8	1783.6	1783.4
7.5°	1799.0	1798.5	1800.5	1808.5	1809.5	1812.5	1816.0	1818.5	1818.6	1818.7	1818.8
10°	1814.5	1815.0	1820.0	1831.5	1837.5	1847.0	1856.5	1864.0	1864.6	1865.1	1865.6
12.5°	1827.0	1827.5	1835.0	1853.0	1867.5	1885.5	1906.0	1917.5	1918.5	1919.5	1920.5
15°	1828.0	1829.5	1842.5	1872.0	1901.0	1930.5	1955.0	1970.5	1971.3	1972.1	1972.9
17.5°	1815.0	1816.0	1838.0	1881.5	1930.0	1976.0	2001.5	2008.5	2008.8	2009.1	2009.4
20°	1781.0	1783.5	1814.5	1879.0	1953.0	2013.0	2039.5	2030.0	2029.0	2028.1	2027.2
22.5°	1726.0	1725.5	1766.0	1853.0	1957.5	2042.0	2065.5	2040.5	2037.6	2034.6	2031.6
25°	1637.0	1643.0	1690.5	1794.5	1932.0	2048.5	2084.0	2046.0	2041.8	2037.5	2033.2
27.5°	1540.5	1544.0	1594.5	1706.0	1872.5	2026.0	2093.0	2057.0	2052.2	2047.5	2042.8
30°	1428.0	1432.5	1486.5	1603.0	1777.0	1968.0	2090.5	2082.0	2076.4	2070.9	2065.4
32.5°	1318.0	1323.0	1371.5	1499.0	1676.5	1888.5	2075.5	2117.5	2111.8	2106.1	2100.4
35°	1204.0	1211.5	1270.5	1399.5	1579.5	1800.0	2052.5	2163.0	2159.8	2156.7	2153.6
37.5°	1109.5	1111.0	1168.0	1303.5	1489.5	1715.5	2022.0	2220.5	2222.8	2225.1	2227.4
40°	1004.0	1013.5	1070.5	1213.5	1408.0	1644.0	1993.0	2298.5	2310.4	2322.4	2334.4
42.5°	909.5	910.5	968.5	1116.0	1319.5	1586.5	1977.0	2392.5	2418.0	2443.6	2469.1
45°	810.0	814.0	866.5	1009.0	1217.5	1518.5	1976.5	2501.0	2541.8	2582.6	2623.4
47.5°	716.0	717.5	773.0	905.5	1100.5	1423.5	1973.0	2617.5	2673.0	2728.6	2784.1
50°	626.0	624.5	679.0	806.5	985.0	1299.0	1942.5	2749.5	2819.6	2889.8	2960.0
52.5°	523.0	530.0	586.5	708.5	880.0	1172.5	1853.5	2894.0	2977.9	3061.8	3145.7
55°	422.0	425.0	485.5	599.5	773.5	1054.5	1698.5	3027.0	3125.9	3224.8	3323.7
57.5°	311.0	320.0	373.0	485.5	665.5	955.0	1501.5	3096.0	3216.4	3336.7	3457.0
60°	219.5	226.5	273.5	368.0	547.0	850.5	1332.0	3057.5	3213.9	3370.3	3526.7
62.5°	171.0	176.5	214.0	275.5	426.5	746.0	1210.5	2933.0	3145.8	3358.6	3571.4
65°	150.0	155.0	189.0	220.5	318.5	639.5	1144.0	2801.5	3082.8	3364.1	3645.4
67.5°	135.5	141.5	171.0	193.0	259.5	558.0	1126.5	2718.5	3037.1	3355.7	3674.3
69°	129.0	135.0	161.5	180.0	241.0	529.0	1096.5	2588.0	2904.8	3221.5	3538.2
70°	125.0	130.0	154.5	173.5	235.0	509.0	1046.5	2425.0	2736.0	3047.1	3358.2
72.5°	116.0	118.5	140.0	158.5	218.0	411.5	805.0	1801.0	2070.6	2340.3	2610.0
75°	102.5	105.5	125.5	143.5	170.0	255.5	509.5	1114.0	1315.3	1516.6	1717.9
77.5°	88.5	91.0	108.5	137.0	132.0	159.5	304.5	620.0	736.8	853.5	970.3
80°	71.0	74.0	89.5	136.0	109.0	124.0	219.0	433.5	465.0	496.5	528.0
82.5°	52.0	54.5	70.0	110.0	83.5	93.5	167.0	367.5	378.4	389.4	400.4
85°	26.5	27.0	44.5	67.0	53.0	48.5	94.0	251.5	258.5	265.5	272.5
87.5°	4.5	4.5	10.0	11.5	13.0	8.0	12.0	43.0	44.4	45.7	47.0
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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CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0
2.5°	1762.0	1761.8	1760.9	1761.0	1761.7	1761.4	1762.0	1762.1	1762.7	1760.8	1760.4
5°	1783.2	1783.0	1782.9	1782.8	1783.2	1783.1	1783.5	1784.3	1784.1	1782.9	1782.7
7.5°	1818.9	1819.0	1819.5	1819.0	1820.0	1819.5	1818.5	1820.1	1821.2	1821.3	1822.4
10°	1866.2	1866.8	1868.5	1868.2	1870.0	1869.8	1870.0	1871.7	1872.9	1873.1	1874.3
12.5°	1921.5	1922.5	1923.4	1924.3	1926.2	1925.1	1927.5	1928.5	1930.0	1933.0	1931.5
15°	1973.7	1974.5	1977.2	1977.4	1979.1	1979.8	1982.0	1982.9	1983.3	1985.7	1986.1
17.5°	2009.7	2010.0	2011.0	2010.5	2012.0	2011.5	2013.0	2013.8	2015.1	2016.4	2018.7
20°	2026.2	2025.2	2024.7	2024.2	2023.1	2021.6	2022.0	2022.7	2022.9	2024.1	2025.8
22.5°	2028.7	2025.8	2022.7	2020.6	2017.6	2015.0	2012.5	2012.7	2012.9	2012.6	2013.8
25°	2029.0	2024.8	2020.0	2014.2	2010.0	2004.2	1999.5	1999.1	1997.7	1997.8	1998.4
27.5°	2038.0	2033.2	2026.6	2020.0	2010.8	2003.2	1995.5	1992.8	1990.1	1988.4	1987.7
30°	2059.8	2054.2	2046.3	2037.8	2027.9	2016.0	2005.0	2001.6	1997.7	1994.3	1991.4
32.5°	2094.7	2089.0	2080.2	2071.4	2058.1	2046.3	2035.5	2030.0	2024.5	2018.5	2013.0
35°	2150.4	2147.2	2139.5	2131.8	2122.0	2112.8	2103.0	2096.8	2087.6	2082.9	2076.2
37.5°	2229.7	2232.0	2232.0	2233.0	2230.0	2225.5	2218.5	2212.0	2209.0	2196.5	2188.5
40°	2346.3	2358.2	2369.2	2377.6	2385.1	2392.6	2399.0	2395.2	2396.4	2393.1	2388.3
42.5°	2494.7	2520.2	2543.6	2567.0	2583.8	2610.2	2628.5	2634.3	2649.1	2654.9	2665.7
45°	2664.2	2705.0	2744.2	2780.4	2814.1	2851.8	2888.5	2915.8	2945.6	2979.4	3013.2
47.5°	2839.7	2895.2	2953.0	3000.2	3049.0	3104.8	3153.5	3194.6	3248.2	3297.8	3352.4
50°	3030.1	3100.2	3166.0	3224.2	3287.0	3351.2	3418.0	3478.4	3550.8	3630.2	3716.1
52.5°	3229.6	3313.5	3389.6	3462.7	3536.3	3609.9	3681.0	3766.3	3855.6	3960.4	4067.7
55°	3422.6	3521.5	3607.8	3689.1	3773.4	3855.7	3929.0	4043.1	4152.7	4277.8	4417.9
57.5°	3577.4	3697.8	3797.3	3893.8	3988.9	4076.4	4166.5	4295.2	4434.9	4581.1	4758.8
60°	3683.1	3839.5	3966.6	4082.7	4199.3	4309.4	4413.0	4581.2	4747.4	4929.1	5150.3
62.5°	3784.2	3997.0	4162.8	4321.1	4478.4	4619.7	4748.5	4960.1	5177.2	5401.8	5664.9
65°	3926.7	4208.0	4452.2	4672.9	4890.6	5098.3	5291.0	5559.1	5833.2	6128.8	6442.9
67.5°	3992.9	4311.5	4629.5	4927.0	5203.5	5466.5	5714.0	6038.1	6360.7	6703.3	7082.9
69°	3855.0	4171.8	4511.7	4836.6	5142.1	5421.0	5689.0	6019.9	6355.3	6705.2	7088.1
70°	3669.2	3980.2	4323.4	4663.0	4955.2	5245.8	5523.5	5851.8	6191.6	6542.4	6943.2
72.5°	2879.6	3149.2	3483.9	3813.6	4106.7	4398.4	4668.0	5004.0	5346.0	5714.5	6094.0
75°	1919.2	2120.5	2369.8	2675.6	2944.4	3202.2	3463.5	3747.7	4081.4	4385.1	4732.3
77.5°	1087.0	1203.8	1348.6	1547.4	1740.3	1894.6	2081.0	2214.7	2408.4	2575.6	2752.3
80°	559.5	591.0	634.2	681.9	709.1	704.8	732.5	705.1	711.2	688.8	664.9
82.5°	411.3	422.2	441.8	451.4	450.4	419.0	385.5	339.1	298.2	255.3	215.9
85°	279.5	286.5	291.4	298.8	296.7	283.1	253.0	212.7	173.4	139.1	111.3
87.5°	48.4	49.8	49.4	53.6	53.7	49.8	41.0	35.0	29.5	22.0	15.5
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°	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0	1756.0
2.5°	1760.0	1760.0	1761.0	1760.0	1760.0	1760.0	1759.5	1760.5	1760.0	1758.5	1757.0
5°	1783.0	1781.5	1781.0	1782.0	1783.0	1781.0	1782.5	1784.0	1781.5	1782.0	1781.0
7.5°	1821.5	1821.0	1820.5	1821.5	1821.5	1821.0	1821.5	1820.0	1819.0	1820.5	1822.0
10°	1873.0	1872.5	1873.5	1873.5	1875.5	1874.5	1874.0	1875.5	1874.5	1873.5	1874.0
12.5°	1933.5	1932.0	1934.5	1934.5	1936.0	1936.0	1935.5	1936.0	1935.5	1934.0	1933.0
15°	1987.5	1985.5	1986.0	1990.0	1989.5	1990.5	1990.5	1989.5	1989.0	1988.5	1989.0
17.5°	2020.0	2019.0	2019.0	2021.0	2022.5	2022.0	2022.0	2022.0	2021.5	2022.0	2023.0
20°	2026.0	2026.0	2026.5	2028.5	2031.0	2029.5	2029.5	2030.5	2029.5	2030.5	2031.0
22.5°	2014.5	2015.5	2016.5	2019.0	2019.5	2019.5	2019.5	2020.0	2021.0	2021.0	2022.0
25°	1998.5	1999.5	2001.0	2003.0	2005.0	2005.0	2005.0	2006.0	2006.0	2006.5	2007.0
27.5°	1986.5	1987.5	1989.0	1991.0	1993.5	1993.5	1993.5	1994.5	1994.5	1995.0	1996.0
30°	1988.0	1986.0	1987.5	1988.5	1990.0	1990.0	1989.5	1990.0	1990.5	1990.5	1991.0
32.5°	2009.5	2005.0	2003.5	2003.0	2003.5	2002.0	2001.5	2000.5	1999.5	1999.5	1999.0
35°	2066.5	2059.5	2059.0	2055.0	2051.0	2047.0	2047.5	2044.5	2045.5	2043.0	2041.0
37.5°	2183.5	2175.5	2180.5	2172.0	2166.5	2162.5	2158.0	2152.0	2148.5	2153.0	2153.0
40°	2393.0	2387.5	2386.0	2387.5	2382.5	2385.0	2374.0	2371.0	2364.5	2369.0	2375.0
42.5°	2682.5	2679.0	2698.0	2701.5	2703.5	2706.5	2708.5	2692.0	2691.5	2688.0	2678.0
45°	3040.0	3061.0	3060.0	3083.0	3084.0	3077.0	3080.0	3072.5	3069.5	3058.5	3072.0
47.5°	3407.5	3447.5	3462.5	3467.5	3486.5	3491.0	3473.0	3467.0	3477.5	3459.5	3462.0
50°	3802.0	3845.0	3880.0	3903.5	3917.0	3918.0	3904.5	3901.5	3911.0	3877.0	3893.0
52.5°	4190.0	4255.0	4321.0	4356.0	4381.0	4383.0	4393.5	4381.0	4386.0	4378.0	4394.0
55°	4572.5	4685.0	4762.5	4831.0	4874.5	4912.0	4915.5	4929.0	4930.0	4946.5	4930.0
57.5°	4946.5	5069.0	5204.0	5325.5	5393.0	5435.5	5475.5	5530.0	5542.0	5535.5	5546.0
60°	5388.0	5577.5	5761.0	5901.0	6017.5	6129.0	6189.0	6274.5	6288.0	6325.0	6293.0
62.5°	5946.0	6221.0	6470.0	6658.5	6835.5	7009.0	7140.0	7206.0	7246.0	7323.5	7298.0
65°	6802.0	7132.0	7461.5	7731.5	7979.5	8186.0	8385.0	8480.0	8585.0	8695.0	8715.0
67.5°	7507.0	7915.5	8287.0	8616.0	8916.5	9146.0	9353.0	9517.5	9645.5	9726.5	9733.0
69°	7539.0	7963.5	8367.0	8720.0	9033.5	9277.5	9495.5	9678.5	9803.0	9886.0	9908.0
70°	7386.0	7820.5	8250.5	8607.0	8928.0	9177.5	9408.5	9583.0	9722.0	9806.5	9836.0
72.5°	6525.5	6989.5	7449.0	7761.5	8089.5	8386.5	8571.5	8749.5	8945.5	8971.0	9052.0
75°	5144.0	5534.0	5890.5	6129.5	6403.5	6670.0	6851.5	6898.5	7001.0	7130.0	7084.0
77.5°	2981.0	3101.0	3331.0	3390.0	3340.0	3456.0	3494.5	3412.5	3408.5	3484.0	3334.0
80°	660.5	623.0	670.0	635.0	636.0	637.0	626.5	622.5	630.0	622.5	612.0
82.5°	183.0	177.0	178.0	176.0	179.5	177.0	175.5	179.5	179.0	178.5	182.0
85°	88.0	87.0	85.5	85.0	83.0	80.5	76.5	76.5	78.5	75.5	77.0
87.5°	11.5	11.0	11.0	13.0	11.5	9.5	9.5	9.5	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)