

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: P148799

Luminaire Tested: **VWM-E03-LED-E1-RW-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P148799  
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-7030  
Description: VISION WALL MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8559.7 lumens  
Efficiency: N/A  
Efficacy: 113.8 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

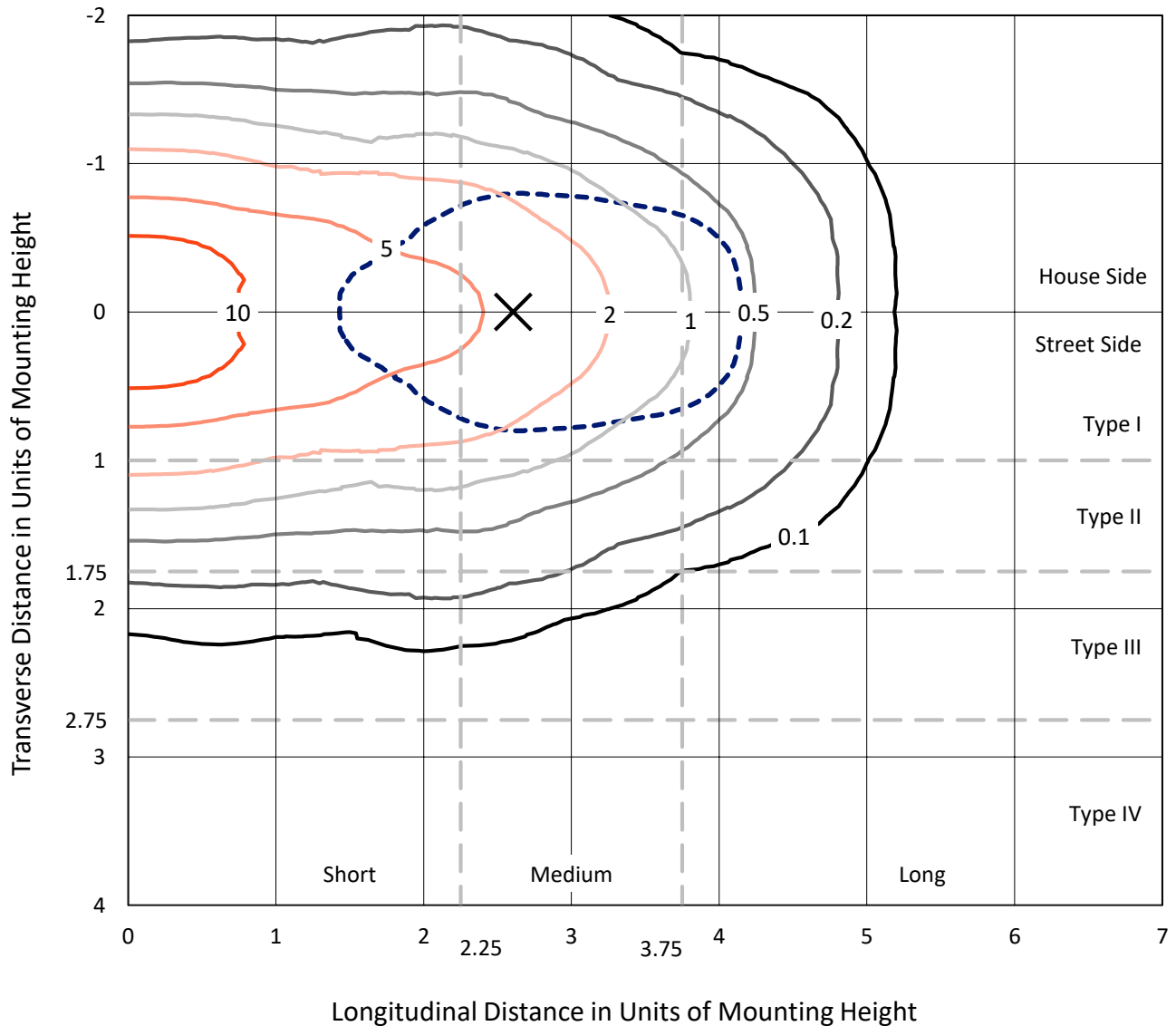
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

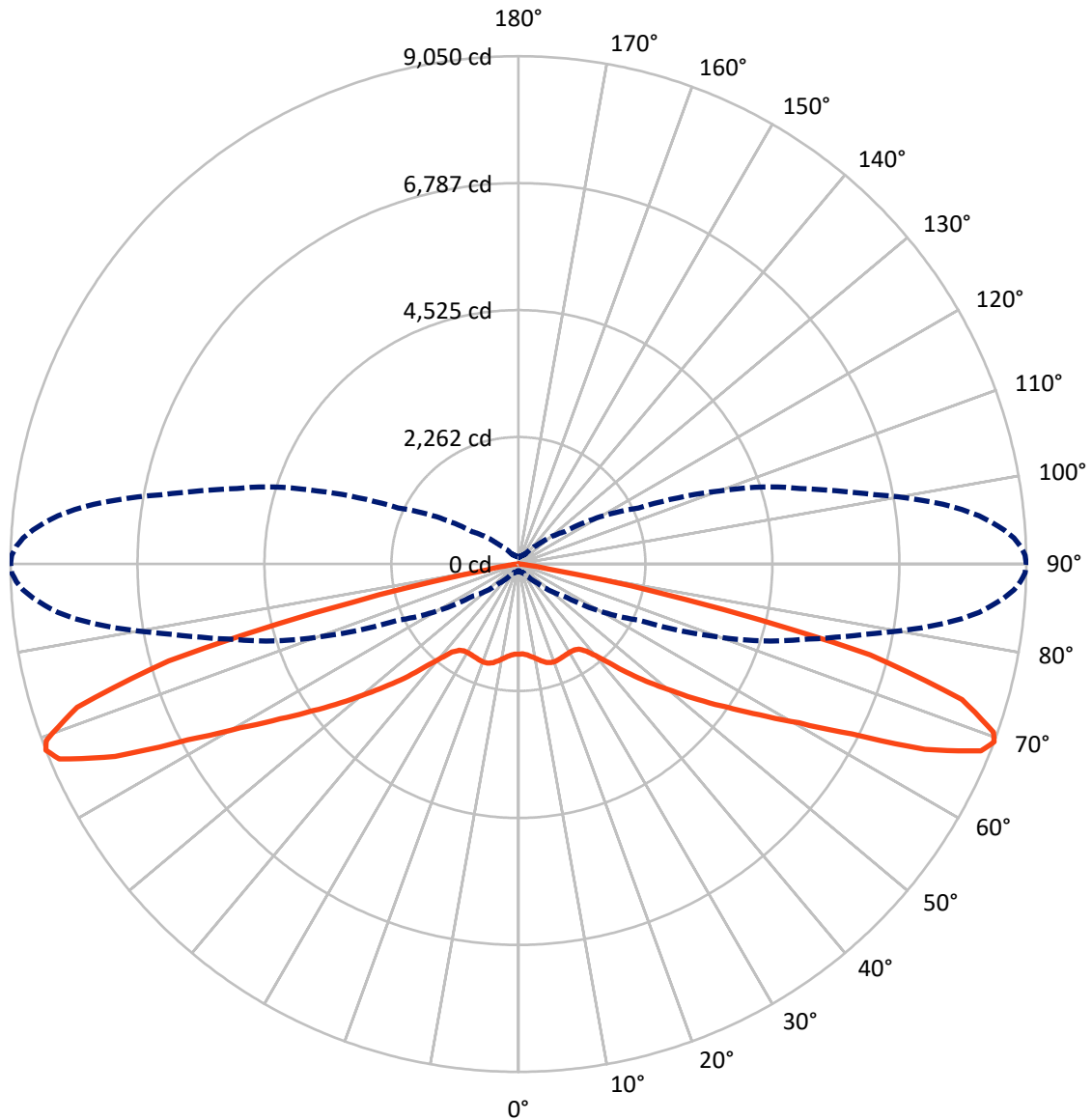
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.4 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
<b>House Side</b>	Lumens	4279.9	0.0	4279.9
	% Fixture	50.0	0.0	50.0
<b>Street Side</b>	Lumens	4279.9	0.0	4279.9
	% Fixture	50.0	0.0	50.0
<b>Total</b>	Lumens	8559.7	0.0	8559.7
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	157.3	1.8
10°-20°	496.3	5.8
20°-30°	804.0	9.4
30°-40°	1002.0	11.7
40°-50°	1252.1	14.6
50°-60°	1546.1	18.1
60°-70°	1921.1	22.4
70°-80°	1275.4	14.9
80°-90°	105.3	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°	8559.7	100.0
0°-180°	8559.7	100.0



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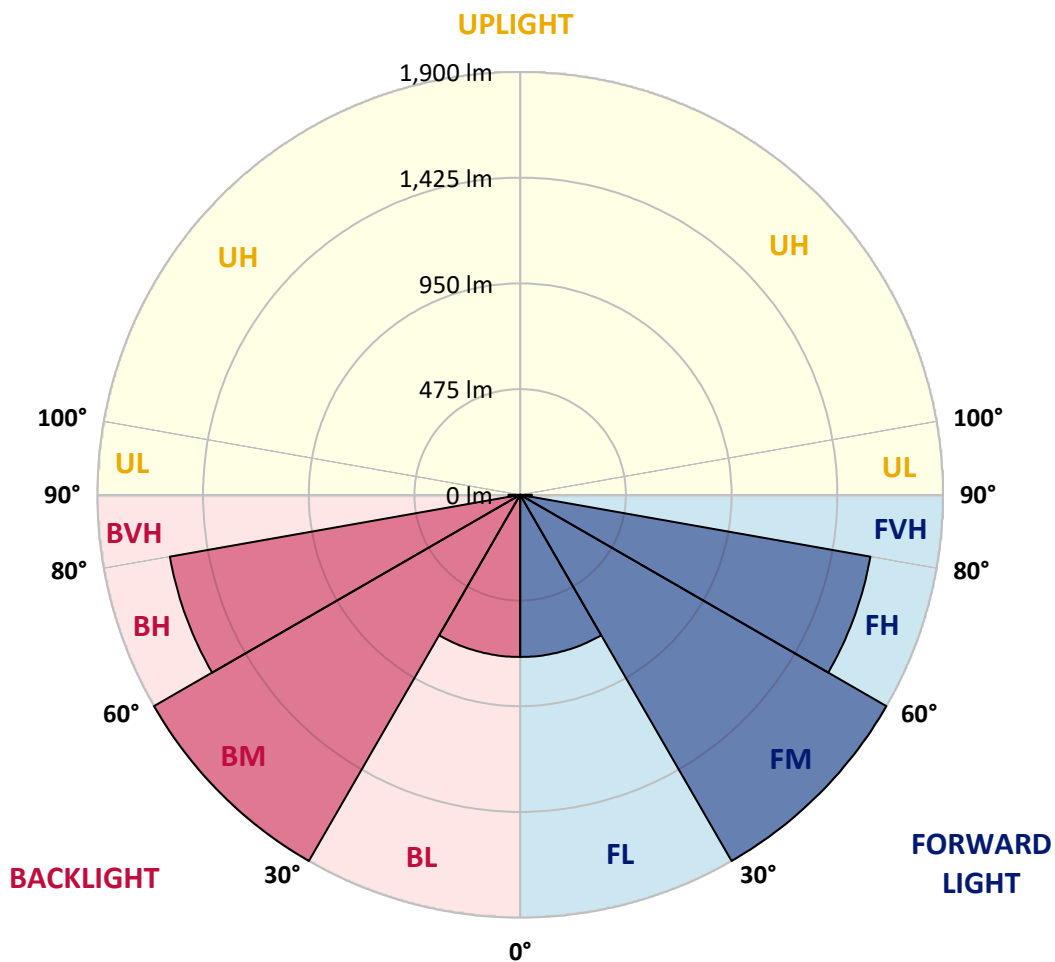
CATALOG NUMBER: VWM-E03-LED-E1-RW-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	728.8	8.5			
FM	(30°-60°)	1900.2	22.2			
FH	(60°-80°)	1598.3	18.7			G1/1800
FVH	(80°-90°)	52.7	0.6			G1/100
BL	(0°-30°)	728.8	8.5	B2/1000		
BM	(30°-60°)	1900.2	22.2	B2/2500		
BH	(60°-80°)	1598.3	18.7	B3/2500		G3/2500
BVH	(80°-90°)	52.7	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°	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8
2.5°	1611.2	1612.6	1611.6	1613.4	1613.0	1613.0	1612.0	1610.2	1610.0	1609.8	1609.6
5°	1626.7	1624.9	1627.6	1630.4	1629.4	1629.8	1629.4	1629.4	1629.2	1629.0	1628.8
7.5°	1643.1	1642.6	1644.4	1651.8	1652.8	1655.4	1658.6	1660.9	1661.0	1661.1	1661.2
10°	1657.2	1657.8	1662.3	1672.8	1678.3	1687.0	1695.6	1702.4	1703.0	1703.5	1704.0
12.5°	1668.7	1669.2	1676.0	1692.4	1705.7	1722.2	1740.8	1751.4	1752.3	1753.2	1754.1
15°	1669.6	1671.0	1682.8	1709.8	1736.2	1763.2	1785.6	1799.8	1800.5	1801.2	1802.0
17.5°	1657.8	1658.6	1678.8	1718.5	1762.8	1804.8	1828.1	1834.5	1834.8	1835.0	1835.3
20°	1626.7	1629.0	1657.3	1716.2	1783.8	1838.6	1862.8	1854.1	1853.2	1852.4	1851.5
22.5°	1576.4	1576.0	1613.0	1692.4	1787.8	1865.0	1886.5	1863.6	1861.0	1858.3	1855.6
25°	1495.2	1500.6	1544.0	1639.0	1764.6	1871.0	1903.4	1868.7	1864.8	1860.9	1857.1
27.5°	1407.0	1410.2	1456.3	1558.2	1710.2	1850.4	1911.6	1878.8	1874.4	1870.1	1865.7
30°	1304.2	1308.4	1357.7	1464.1	1623.1	1797.4	1909.4	1901.6	1896.5	1891.4	1886.4
32.5°	1203.8	1208.4	1252.7	1369.2	1531.2	1724.9	1895.6	1934.0	1928.8	1923.6	1918.4
35°	1099.6	1106.6	1160.4	1278.2	1442.6	1644.0	1874.6	1975.6	1972.7	1969.8	1966.9
37.5°	1013.4	1014.7	1066.8	1190.6	1360.4	1566.9	1846.8	2028.1	2030.2	2032.3	2034.4
40°	917.0	925.7	977.8	1108.4	1285.9	1501.6	1820.3	2099.4	2110.3	2121.2	2132.1
42.5°	830.7	831.6	884.6	1019.3	1205.2	1449.1	1805.7	2185.2	2208.5	2231.9	2255.2
45°	739.8	743.4	791.4	921.6	1112.0	1387.0	1805.2	2284.3	2321.6	2358.8	2396.1
47.5°	654.0	655.4	706.0	827.0	1005.2	1300.2	1802.0	2390.7	2441.4	2492.2	2542.9
50°	571.8	570.4	620.2	736.6	899.6	1186.4	1774.2	2511.2	2575.3	2639.4	2703.5
52.5°	477.7	484.1	535.7	647.1	803.8	1070.9	1692.9	2643.2	2719.8	2796.5	2873.1
55°	385.4	388.2	443.4	547.6	706.4	963.2	1551.4	2764.7	2855.0	2945.4	3035.7
57.5°	284.0	292.3	340.7	443.4	607.8	872.2	1371.4	2827.7	2937.6	3047.6	3157.5
60°	200.4	206.8	249.8	336.2	499.6	776.8	1216.6	2792.6	2935.4	3078.3	3221.1
62.5°	156.1	161.2	195.4	251.6	389.5	681.4	1105.6	2678.8	2873.2	3067.6	3261.9
65°	137.0	141.6	172.6	201.4	290.9	584.1	1044.9	2558.8	2815.7	3072.6	3329.6
67.5°	123.8	129.2	156.2	176.2	237.0	509.6	1028.9	2483.0	2773.9	3064.9	3355.9
69°	117.8	123.3	147.5	164.4	220.1	483.2	1001.5	2363.8	2653.1	2942.4	3231.7
70°	114.2	118.7	141.1	158.5	214.6	464.9	955.8	2214.9	2499.0	2783.1	3067.2
72.5°	106.0	108.2	127.8	144.8	199.1	375.8	735.2	1645.0	1891.2	2137.5	2383.8
75°	93.6	96.4	114.6	131.0	155.2	233.4	465.4	1017.5	1201.4	1385.2	1569.1
77.5°	80.8	83.1	99.1	125.1	120.6	145.6	278.1	566.3	672.9	779.6	886.2
80°	64.8	67.6	81.8	124.2	99.6	113.2	200.0	396.0	424.7	453.5	482.3
82.5°	47.4	49.8	64.0	100.4	76.3	85.4	152.5	335.7	345.7	355.7	365.7
85°	24.2	24.6	40.7	61.2	48.4	44.3	85.9	229.8	236.1	242.5	248.9
87.5°	4.1	4.1	9.2	10.6	11.8	7.3	11.0	39.2	40.5	41.7	43.0
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°	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8
2.5°	1609.4	1609.1	1608.3	1608.4	1609.0	1608.7	1609.3	1609.4	1610.0	1608.2	1607.9
5°	1628.7	1628.5	1628.4	1628.3	1628.7	1628.6	1629.0	1629.7	1629.5	1628.4	1628.2
7.5°	1661.3	1661.4	1661.9	1661.4	1662.3	1661.8	1661.0	1662.4	1663.4	1663.5	1664.5
10°	1704.5	1705.0	1706.6	1706.3	1707.9	1707.7	1708.0	1709.5	1710.6	1710.8	1711.9
12.5°	1755.0	1756.0	1756.8	1757.6	1759.3	1758.3	1760.5	1761.4	1762.8	1765.5	1764.1
15°	1802.7	1803.4	1805.9	1806.1	1807.6	1808.3	1810.2	1811.1	1811.4	1813.7	1814.0
17.5°	1835.6	1835.8	1836.8	1836.3	1837.6	1837.2	1838.6	1839.3	1840.5	1841.7	1843.8
20°	1850.6	1849.8	1849.2	1848.8	1847.8	1846.4	1846.8	1847.4	1847.6	1848.7	1850.2
22.5°	1852.9	1850.2	1847.4	1845.6	1842.8	1840.4	1838.2	1838.3	1838.5	1838.2	1839.3
25°	1853.2	1849.3	1845.0	1839.7	1835.8	1830.6	1826.2	1825.9	1824.6	1824.7	1825.2
27.5°	1861.4	1857.1	1851.0	1844.9	1836.6	1829.6	1822.6	1820.2	1817.7	1816.1	1815.5
30°	1881.3	1876.2	1869.0	1861.3	1852.2	1841.3	1831.2	1828.2	1824.6	1821.5	1818.9
32.5°	1913.2	1908.0	1900.0	1891.9	1879.8	1869.0	1859.2	1854.1	1849.1	1843.6	1838.6
35°	1964.1	1961.2	1954.1	1947.1	1938.1	1929.7	1920.8	1915.1	1906.7	1902.5	1896.3
37.5°	2036.5	2038.6	2038.6	2039.5	2036.7	2032.7	2026.2	2020.3	2017.6	2006.2	1998.8
40°	2143.0	2153.9	2163.9	2171.6	2178.4	2185.2	2191.1	2187.6	2188.7	2185.7	2181.3
42.5°	2278.5	2301.9	2323.2	2344.5	2359.9	2384.0	2400.8	2406.0	2419.6	2424.8	2434.7
45°	2433.4	2470.6	2506.4	2539.5	2570.3	2604.7	2638.2	2663.1	2690.4	2721.2	2752.1
47.5°	2593.7	2644.4	2697.1	2740.3	2784.8	2835.7	2880.2	2917.8	2966.7	3012.0	3061.9
50°	2767.5	2831.6	2891.6	2944.9	3002.2	3060.9	3121.9	3177.0	3243.1	3315.6	3394.1
52.5°	2949.7	3026.4	3095.9	3162.6	3229.9	3297.1	3362.0	3439.9	3521.5	3617.2	3715.2
55°	3126.0	3216.4	3295.2	3369.4	3446.4	3521.6	3588.6	3692.7	3792.8	3907.1	4035.1
57.5°	3267.4	3377.3	3468.3	3556.4	3643.3	3723.2	3805.5	3923.0	4050.6	4184.1	4346.4
60°	3364.0	3506.8	3622.9	3728.9	3835.4	3936.0	4030.6	4184.2	4336.0	4502.0	4704.0
62.5°	3456.3	3650.6	3802.1	3946.7	4090.3	4219.4	4337.0	4530.3	4728.6	4933.8	5174.1
65°	3586.5	3843.4	4066.4	4268.0	4466.8	4656.5	4832.5	5077.4	5327.8	5597.8	5884.6
67.5°	3646.9	3937.9	4228.4	4500.1	4752.6	4992.8	5218.9	5514.9	5809.6	6122.5	6469.1
69°	3521.0	3810.3	4120.8	4417.6	4696.6	4951.3	5196.0	5498.3	5804.6	6124.2	6473.9
70°	3351.3	3635.4	3948.8	4259.0	4525.8	4791.3	5044.9	5344.8	5655.1	5975.5	6341.6
72.5°	2630.1	2876.4	3182.0	3483.1	3750.9	4017.2	4263.5	4570.4	4882.8	5219.3	5565.9
75°	1752.9	1936.8	2164.5	2443.8	2689.3	2924.7	3163.4	3423.0	3727.7	4005.1	4322.2
77.5°	992.8	1099.4	1231.7	1413.4	1589.5	1730.5	1900.7	2022.8	2199.7	2352.4	2513.8
80°	511.0	539.8	579.3	622.8	647.7	643.7	669.0	644.0	649.6	629.1	607.3
82.5°	375.7	385.6	403.5	412.2	411.4	382.6	352.1	309.7	272.4	233.2	197.2
85°	255.3	261.7	266.2	272.9	271.0	258.6	231.1	194.3	158.4	127.1	101.6
87.5°	44.2	45.4	45.1	48.9	49.0	45.5	37.4	32.0	27.0	20.1	14.2
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°	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8	1603.8
2.5°	1607.5	1607.5	1608.4	1607.5	1607.5	1607.5	1607.1	1608.0	1607.5	1606.1	1604.8
5°	1628.5	1627.2	1626.7	1627.6	1628.5	1626.6	1628.0	1629.4	1627.1	1627.6	1626.7
7.5°	1663.7	1663.2	1662.8	1663.7	1663.6	1663.2	1663.6	1662.3	1661.4	1662.8	1664.1
10°	1710.7	1710.2	1711.2	1711.2	1713.0	1712.1	1711.6	1713.0	1712.1	1711.2	1711.6
12.5°	1766.0	1764.6	1766.8	1766.8	1768.2	1768.2	1767.8	1768.2	1767.8	1766.4	1765.5
15°	1815.3	1813.4	1813.9	1817.6	1817.1	1818.0	1818.0	1817.1	1816.6	1816.2	1816.7
17.5°	1845.0	1844.0	1844.0	1845.9	1847.2	1846.8	1846.8	1846.8	1846.4	1846.8	1847.7
20°	1850.4	1850.4	1850.9	1852.8	1855.0	1853.6	1853.6	1854.6	1853.6	1854.6	1855.0
22.5°	1840.0	1840.9	1841.8	1844.0	1844.6	1844.6	1844.5	1845.0	1845.8	1845.8	1846.8
25°	1825.4	1826.2	1827.6	1829.4	1831.2	1831.2	1831.2	1832.2	1832.2	1832.6	1833.1
27.5°	1814.4	1815.2	1816.7	1818.4	1820.8	1820.8	1820.8	1821.7	1821.7	1822.1	1823.0
30°	1815.8	1813.9	1815.3	1816.2	1817.6	1817.6	1817.2	1817.6	1818.0	1818.0	1818.5
32.5°	1835.4	1831.2	1829.9	1829.4	1829.9	1828.6	1828.0	1827.2	1826.2	1826.2	1825.8
35°	1887.4	1881.0	1880.6	1877.0	1873.2	1869.6	1870.1	1867.4	1868.3	1866.0	1864.1
37.5°	1994.3	1987.0	1991.6	1983.8	1978.8	1975.2	1971.0	1965.6	1962.4	1966.4	1966.4
40°	2185.6	2180.6	2179.3	2180.6	2176.0	2178.4	2168.3	2165.6	2159.6	2163.8	2169.2
42.5°	2450.0	2446.9	2464.2	2467.4	2469.2	2472.0	2473.8	2458.8	2458.3	2455.1	2446.0
45°	2776.6	2795.8	2794.9	2815.8	2816.8	2810.4	2813.1	2806.2	2803.6	2793.5	2805.8
47.5°	3112.2	3148.8	3162.5	3167.0	3184.4	3188.5	3172.0	3166.6	3176.1	3159.8	3162.0
50°	3472.6	3511.8	3543.8	3565.3	3577.6	3578.5	3566.2	3563.4	3572.1	3541.0	3555.7
52.5°	3826.9	3886.3	3946.6	3978.6	4001.4	4003.2	4012.8	4001.4	4006.0	3998.6	4013.3
55°	4176.2	4279.0	4349.8	4412.4	4452.1	4486.4	4489.6	4501.9	4502.8	4517.9	4502.8
57.5°	4517.8	4629.8	4753.1	4864.0	4925.7	4964.5	5001.0	5050.8	5061.8	5055.8	5065.4
60°	4921.2	5094.2	5261.8	5389.7	5496.1	5597.9	5652.8	5730.8	5743.1	5776.9	5747.7
62.5°	5430.8	5682.0	5909.4	6081.6	6243.2	6401.7	6521.3	6581.6	6618.1	6688.9	6665.6
65°	6212.6	6514.0	6815.0	7061.6	7288.0	7476.7	7658.4	7745.2	7841.1	7941.6	7959.8
67.5°	6856.5	7229.6	7569.0	7869.4	8143.9	8353.5	8542.6	8692.8	8809.8	8883.7	8889.6
69°	6885.8	7273.4	7642.0	7964.4	8250.8	8473.6	8672.7	8839.8	8953.6	9029.4	9049.5
70°	6746.0	7142.9	7535.6	7861.2	8154.4	8382.2	8593.2	8752.6	8879.6	8956.8	8983.7
72.5°	5960.0	6383.9	6803.6	7089.0	7388.6	7659.8	7828.8	7991.4	8170.4	8193.7	8267.6
75°	4698.2	5054.5	5380.1	5598.4	5848.6	6092.0	6257.8	6300.8	6394.4	6512.2	6470.2
77.5°	2722.7	2832.3	3042.4	3096.3	3050.6	3156.5	3191.7	3116.8	3113.1	3182.1	3045.1
80°	603.3	569.0	611.9	580.0	580.8	581.8	572.2	568.6	575.4	568.6	559.0
82.5°	167.1	161.6	162.6	160.8	164.0	161.7	160.3	164.0	163.5	163.0	166.2
85°	80.4	79.4	78.1	77.6	75.8	73.5	69.9	69.8	71.7	68.9	70.3
87.5°	10.5	10.0	10.0	11.9	10.5	8.6	8.6	8.6	8.2	8.2	8.2
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)