

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: McGRAW-EDISON

Report Number: P200472

Luminaire Tested: **GWC-AF-02-LED-E1-SL4-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200472  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24294)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-02-LED-E1-SL4-7060  
Description: GALLEON WALL LUMINAIRE  
(2) 70 CRI, 5700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV  
SPILL LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 11802.9 lumens  
Efficiency: N/A  
Efficacy: 104.5 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G3

Input Watts (W): 113  
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

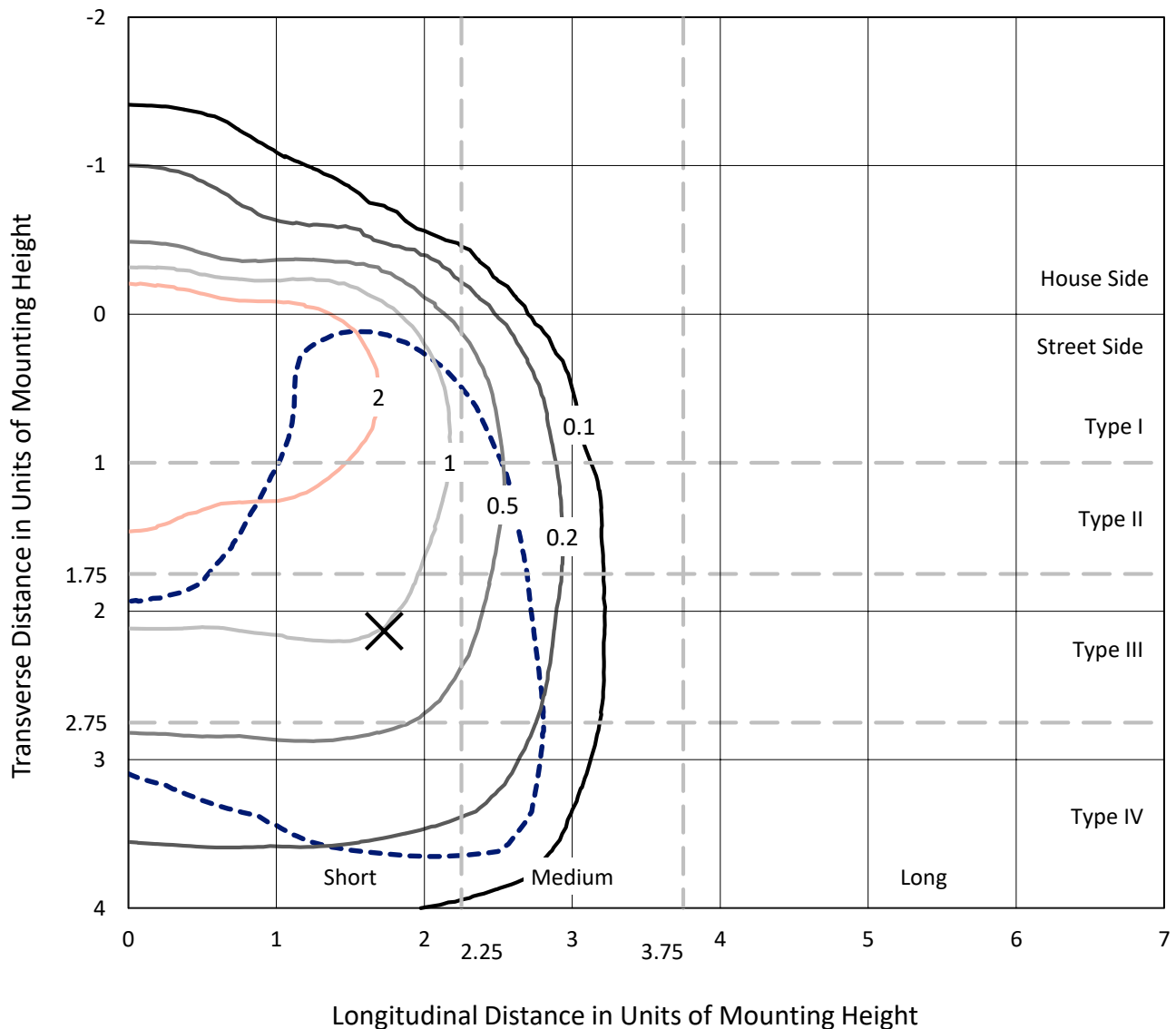


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

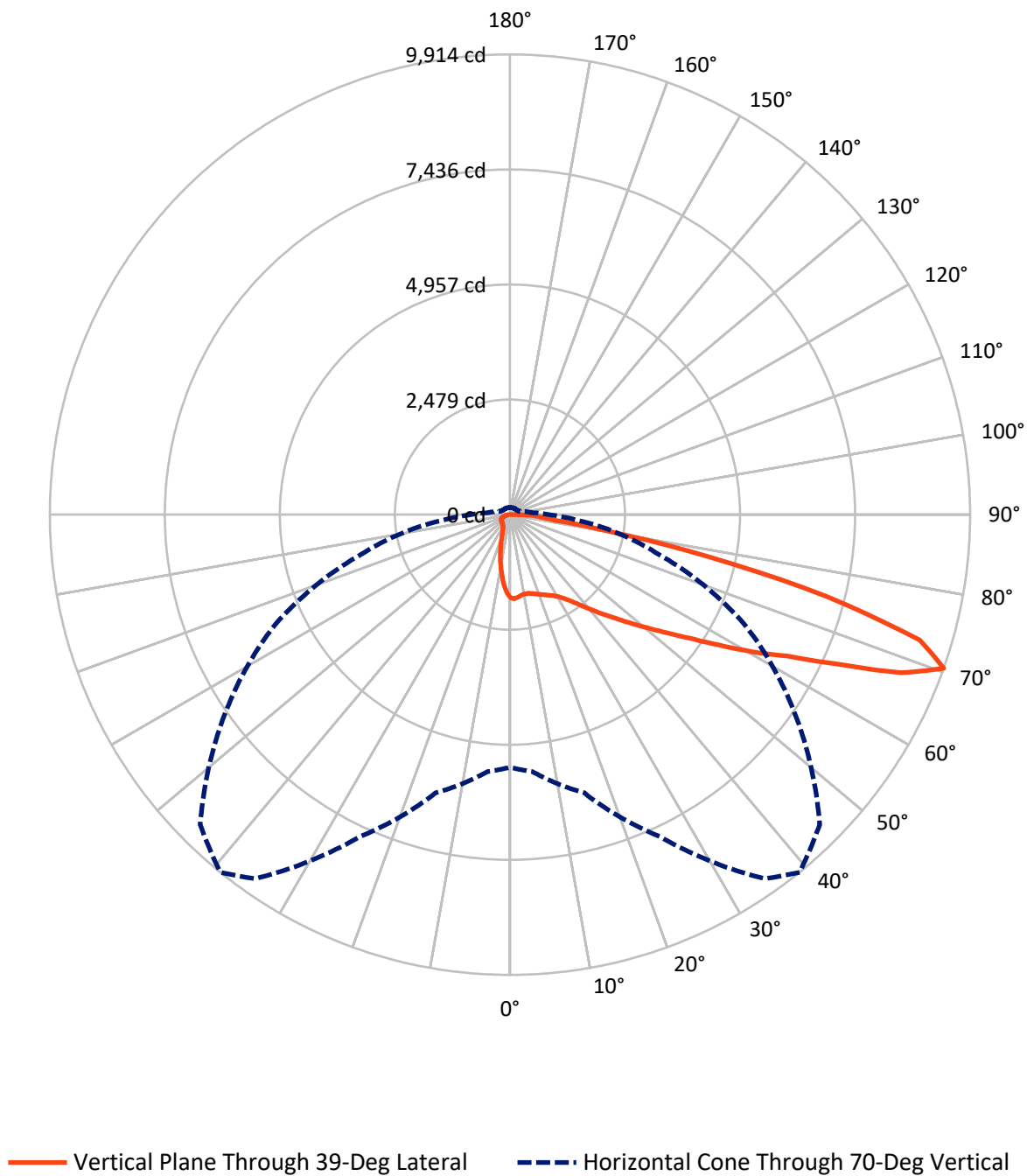


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc  
Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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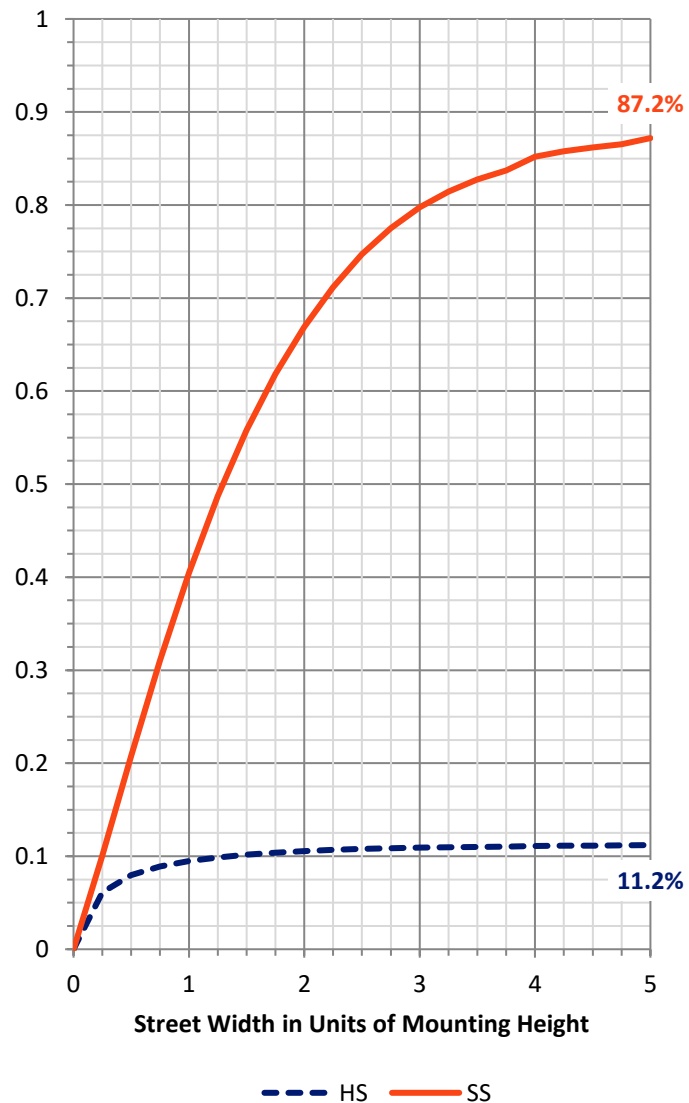
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1342.3   | 0.0    | 1342.3  |
|                    | % Fixture | 11.4     | 0.0    | 11.4    |
| <b>Street Side</b> | Lumens    | 10460.6  | 0.0    | 10460.6 |
|                    | % Fixture | 88.6     | 0.0    | 88.6    |
| <b>Total</b>       | Lumens    | 11802.9  | 0.0    | 11802.9 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 153.8   | 1.3       |
| 10°-20°   | 384.4   | 3.3       |
| 20°-30°   | 598.5   | 5.1       |
| 30°-40°   | 932.3   | 7.9       |
| 40°-50°   | 1565.2  | 13.3      |
| 50°-60°   | 2486.5  | 21.1      |
| 60°-70°   | 3316.8  | 28.1      |
| 70°-80°   | 2002.9  | 17.0      |
| 80°-90°   | 362.5   | 3.1       |
| 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°    | 11802.9 | 100.0     |
| 0°-180°   | 11802.9 | 100.0     |

**Coefficient of Utilization**



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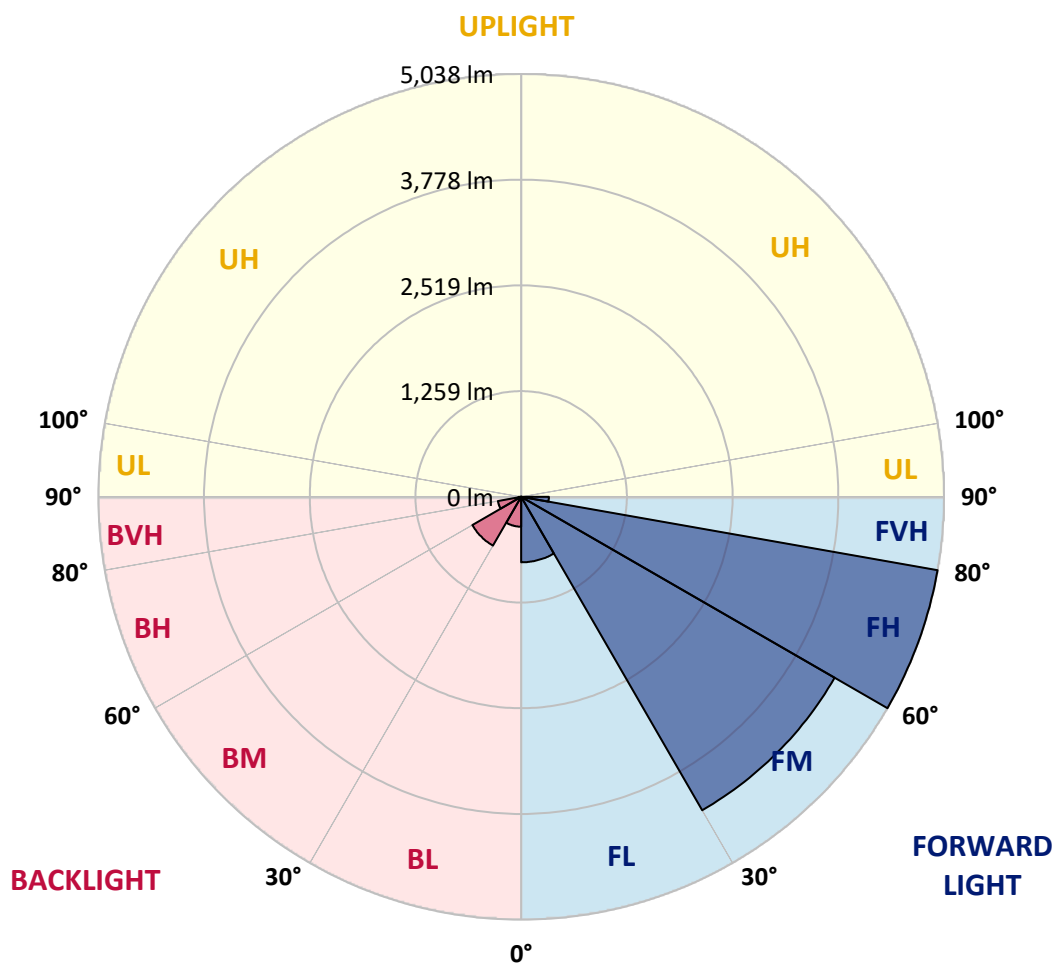
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 780.6  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 4312.4 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 5037.9 | 42.7      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 329.8  | 2.8       |                         |      | G3/500  |
| BL   | (0°-30°)    | 356.1  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 671.8  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 281.8  | 2.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 32.7   | 0.3       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G3**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 |
| 2.5°  | 1826.7 | 1826.1 | 1821.3 | 1817.7 | 1814.7 | 1813.5 | 1815.9 | 1806.9 | 1799.1 | 1789.5 | 1779.3 |
| 5°    | 1812.9 | 1812.3 | 1804.5 | 1797.3 | 1790.1 | 1787.7 | 1787.1 | 1770.9 | 1761.3 | 1746.9 | 1727.7 |
| 7.5°  | 1797.9 | 1794.9 | 1784.7 | 1772.7 | 1760.1 | 1754.1 | 1748.1 | 1727.1 | 1716.3 | 1701.9 | 1679.7 |
| 10°   | 1782.3 | 1778.7 | 1769.1 | 1757.1 | 1745.1 | 1736.1 | 1725.9 | 1705.5 | 1694.1 | 1683.3 | 1657.5 |
| 12.5° | 1766.1 | 1763.1 | 1760.7 | 1755.3 | 1746.9 | 1739.1 | 1731.3 | 1713.9 | 1701.9 | 1689.3 | 1659.3 |
| 15°   | 1763.7 | 1762.5 | 1767.9 | 1771.5 | 1766.7 | 1761.9 | 1753.5 | 1738.5 | 1725.9 | 1713.3 | 1674.3 |
| 17.5° | 1782.9 | 1782.3 | 1796.1 | 1805.7 | 1803.3 | 1794.9 | 1783.5 | 1766.7 | 1756.5 | 1745.7 | 1697.1 |
| 20°   | 1824.9 | 1827.9 | 1844.7 | 1857.3 | 1845.3 | 1833.3 | 1814.7 | 1791.3 | 1785.9 | 1781.1 | 1720.5 |
| 22.5° | 1904.1 | 1907.1 | 1919.1 | 1923.9 | 1892.7 | 1875.3 | 1849.5 | 1819.5 | 1815.9 | 1819.5 | 1748.7 |
| 25°   | 2027.7 | 2024.7 | 2022.9 | 2004.9 | 1947.9 | 1920.9 | 1887.9 | 1856.7 | 1858.5 | 1874.7 | 1788.3 |
| 27.5° | 2191.5 | 2175.3 | 2150.1 | 2096.1 | 2005.5 | 1975.5 | 1935.3 | 1906.5 | 1917.9 | 1949.1 | 1847.7 |
| 30°   | 2361.4 | 2343.4 | 2285.2 | 2196.9 | 2081.1 | 2048.1 | 2003.1 | 1970.7 | 2000.7 | 2049.9 | 1926.9 |
| 32.5° | 2518.6 | 2516.2 | 2431.0 | 2317.6 | 2185.5 | 2156.7 | 2111.7 | 2075.1 | 2123.7 | 2198.7 | 2045.7 |
| 35°   | 2690.2 | 2695.6 | 2593.6 | 2457.4 | 2326.6 | 2296.6 | 2264.2 | 2236.5 | 2301.4 | 2404.6 | 2217.9 |
| 37.5° | 2873.8 | 2884.6 | 2764.0 | 2610.4 | 2487.4 | 2474.8 | 2455.6 | 2443.6 | 2543.8 | 2686.6 | 2458.6 |
| 40°   | 3119.3 | 3108.5 | 2941.1 | 2783.2 | 2684.8 | 2684.2 | 2678.2 | 2692.6 | 2859.4 | 3055.1 | 2767.6 |
| 42.5° | 3382.1 | 3350.3 | 3128.9 | 2968.7 | 2901.5 | 2921.9 | 2933.9 | 2992.7 | 3239.3 | 3502.7 | 3144.5 |
| 45°   | 3665.4 | 3594.0 | 3323.9 | 3164.9 | 3142.1 | 3185.3 | 3226.1 | 3353.9 | 3686.4 | 4012.2 | 3557.4 |
| 47.5° | 3891.6 | 3822.6 | 3525.5 | 3370.7 | 3420.5 | 3485.9 | 3564.6 | 3766.8 | 4186.9 | 4538.5 | 3964.8 |
| 50°   | 4069.8 | 4024.8 | 3729.0 | 3610.8 | 3727.2 | 3828.0 | 3956.4 | 4234.3 | 4707.7 | 5051.0 | 4342.3 |
| 52.5° | 4242.7 | 4209.1 | 3934.2 | 3856.8 | 4087.2 | 4226.5 | 4401.1 | 4735.9 | 5241.8 | 5555.1 | 4659.7 |
| 55°   | 4398.7 | 4374.7 | 4155.0 | 4163.4 | 4510.9 | 4692.1 | 4911.8 | 5307.2 | 5823.9 | 6004.5 | 4928.6 |
| 57.5° | 4574.5 | 4543.9 | 4407.1 | 4548.1 | 5055.2 | 5290.4 | 5576.1 | 5949.3 | 6370.0 | 6404.2 | 5133.2 |
| 60°   | 4751.5 | 4725.1 | 4686.7 | 4992.2 | 5746.5 | 5993.7 | 6264.4 | 6571.6 | 6923.9 | 6714.4 | 5121.2 |
| 62.5° | 4905.2 | 4908.2 | 4976.0 | 5458.4 | 6423.4 | 6709.6 | 7039.7 | 7343.3 | 7425.0 | 6768.5 | 4742.5 |
| 65°   | 5165.6 | 5213.0 | 5415.2 | 6118.6 | 7376.3 | 7759.2 | 8164.3 | 8115.7 | 7563.6 | 6263.8 | 3930.6 |
| 67.5° | 5475.3 | 5558.7 | 5968.5 | 6998.3 | 8580.7 | 9089.0 | 9245.6 | 8290.3 | 7008.5 | 5091.8 | 2801.8 |
| 70°   | 5444.0 | 5558.7 | 6207.4 | 7654.2 | 9573.3 | 9914.1 | 9438.9 | 7503.0 | 5565.3 | 3326.3 | 1488.2 |
| 72.5° | 4834.4 | 4998.2 | 5720.7 | 7353.5 | 9260.6 | 9230.6 | 8194.3 | 5593.5 | 3306.5 | 1335.8 | 581.5  |
| 75°   | 3684.6 | 3850.2 | 4471.9 | 5809.5 | 7319.3 | 7067.3 | 5814.3 | 3089.9 | 1254.8 | 530.5  | 366.7  |
| 77.5° | 2119.5 | 2247.9 | 2728.0 | 3562.8 | 4643.5 | 4384.9 | 3236.3 | 1374.2 | 610.9  | 369.7  | 286.2  |
| 80°   | 1183.4 | 1254.8 | 1546.4 | 1807.5 | 2275.6 | 2085.9 | 1448.0 | 853.9  | 456.1  | 268.2  | 220.8  |
| 82.5° | 935.5  | 999.2  | 1250.6 | 1140.2 | 1039.4 | 958.9  | 831.7  | 760.3  | 364.3  | 169.2  | 132.0  |
| 85°   | 817.3  | 877.9  | 1058.6 | 897.7  | 709.9  | 651.1  | 675.7  | 748.3  | 283.2  | 102.0  | 112.8  |
| 87.5° | 757.3  | 838.3  | 943.3  | 691.9  | 552.7  | 489.7  | 623.5  | 820.3  | 91.2   | 63.6   | 45.6   |
| 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):**

|       | 90°    | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 | 1791.9 |
| 2.5°  | 1770.3 | 1760.7 | 1745.1 | 1731.3 | 1709.7 | 1698.3 | 1685.7 | 1676.7 | 1669.5 | 1663.5 | 1673.1 |
| 5°    | 1715.7 | 1697.7 | 1664.7 | 1629.3 | 1587.2 | 1554.2 | 1526.6 | 1500.8 | 1482.8 | 1470.8 | 1479.2 |
| 7.5°  | 1664.1 | 1634.7 | 1583.0 | 1518.8 | 1446.8 | 1385.6 | 1335.2 | 1290.8 | 1260.2 | 1240.4 | 1248.2 |
| 10°   | 1634.7 | 1598.0 | 1518.2 | 1417.4 | 1311.2 | 1215.8 | 1136.6 | 1068.2 | 1020.8 | 993.8  | 998.0  |
| 12.5° | 1627.5 | 1580.0 | 1469.6 | 1331.0 | 1185.8 | 1053.2 | 941.5  | 846.7  | 780.1  | 745.3  | 746.5  |
| 15°   | 1632.9 | 1572.2 | 1424.0 | 1248.2 | 1064.6 | 897.1  | 757.9  | 642.7  | 565.3  | 525.7  | 525.1  |
| 17.5° | 1641.9 | 1566.2 | 1376.0 | 1158.8 | 941.5  | 747.1  | 591.7  | 478.9  | 410.5  | 378.7  | 376.3  |
| 20°   | 1651.5 | 1556.6 | 1322.0 | 1062.2 | 813.7  | 607.9  | 463.3  | 375.1  | 331.9  | 314.4  | 313.2  |
| 22.5° | 1665.3 | 1548.2 | 1266.2 | 960.1  | 688.3  | 495.1  | 381.1  | 321.6  | 298.8  | 289.8  | 288.6  |
| 25°   | 1687.5 | 1544.0 | 1206.8 | 853.9  | 575.5  | 414.1  | 331.9  | 295.2  | 282.0  | 276.0  | 275.4  |
| 27.5° | 1724.7 | 1550.0 | 1151.0 | 750.7  | 483.7  | 359.5  | 304.2  | 282.0  | 272.4  | 267.0  | 266.4  |
| 30°   | 1772.7 | 1568.6 | 1092.2 | 652.9  | 412.3  | 322.3  | 287.4  | 273.0  | 265.2  | 259.8  | 259.8  |
| 32.5° | 1852.5 | 1599.8 | 1030.4 | 568.3  | 361.3  | 296.4  | 274.8  | 265.2  | 258.6  | 254.4  | 253.8  |
| 35°   | 1970.1 | 1658.7 | 972.8  | 498.1  | 324.7  | 277.8  | 264.0  | 256.8  | 252.0  | 249.6  | 249.6  |
| 37.5° | 2141.1 | 1751.7 | 921.7  | 447.7  | 302.4  | 265.2  | 253.8  | 248.4  | 245.4  | 245.4  | 245.4  |
| 40°   | 2371.0 | 1880.1 | 880.3  | 414.1  | 289.8  | 256.2  | 246.0  | 241.8  | 240.0  | 240.6  | 240.6  |
| 42.5° | 2654.8 | 2046.9 | 852.7  | 390.7  | 283.8  | 250.8  | 240.6  | 237.0  | 235.2  | 234.6  | 235.2  |
| 45°   | 2978.3 | 2236.5 | 849.7  | 373.3  | 277.8  | 247.2  | 237.0  | 233.4  | 229.8  | 227.4  | 227.4  |
| 47.5° | 3292.7 | 2429.2 | 874.3  | 367.3  | 271.2  | 243.0  | 234.0  | 230.4  | 225.0  | 219.6  | 219.6  |
| 50°   | 3570.6 | 2593.0 | 907.3  | 369.7  | 268.8  | 237.0  | 229.2  | 227.4  | 219.0  | 213.0  | 212.4  |
| 52.5° | 3791.4 | 2719.0 | 934.3  | 376.9  | 271.2  | 232.8  | 223.2  | 223.8  | 214.8  | 208.2  | 207.6  |
| 55°   | 3968.4 | 2801.8 | 927.1  | 384.1  | 276.6  | 230.4  | 217.8  | 219.0  | 211.8  | 205.2  | 205.2  |
| 57.5° | 4045.8 | 2771.2 | 847.3  | 378.1  | 280.8  | 231.0  | 213.6  | 218.4  | 212.4  | 206.4  | 206.4  |
| 60°   | 3879.6 | 2499.4 | 697.9  | 351.7  | 275.4  | 229.2  | 211.8  | 220.8  | 220.2  | 214.2  | 213.6  |
| 62.5° | 3376.7 | 2012.7 | 541.3  | 312.6  | 256.8  | 220.2  | 207.0  | 220.2  | 226.8  | 225.0  | 224.4  |
| 65°   | 2602.6 | 1433.6 | 413.5  | 270.6  | 231.6  | 205.2  | 194.4  | 206.4  | 215.4  | 217.8  | 217.2  |
| 67.5° | 1689.3 | 878.5  | 318.6  | 231.0  | 203.4  | 187.8  | 178.2  | 183.6  | 185.4  | 185.4  | 184.2  |
| 70°   | 830.5  | 472.9  | 253.8  | 194.4  | 174.6  | 169.2  | 163.8  | 160.8  | 157.8  | 155.4  | 155.4  |
| 72.5° | 409.9  | 309.0  | 208.8  | 164.4  | 150.6  | 148.2  | 147.0  | 143.4  | 141.0  | 138.0  | 136.8  |
| 75°   | 303.0  | 251.4  | 177.6  | 138.6  | 129.6  | 127.2  | 129.6  | 126.6  | 126.0  | 123.6  | 122.4  |
| 77.5° | 249.0  | 214.2  | 153.0  | 118.8  | 111.0  | 106.8  | 110.4  | 111.0  | 111.6  | 108.0  | 106.8  |
| 80°   | 202.2  | 181.2  | 127.8  | 98.4   | 91.2   | 88.2   | 90.6   | 95.4   | 96.6   | 91.2   | 88.8   |
| 82.5° | 145.8  | 148.2  | 103.2  | 76.8   | 70.8   | 68.4   | 73.2   | 79.2   | 80.4   | 72.6   | 70.8   |
| 85°   | 122.4  | 123.6  | 79.2   | 54.6   | 48.6   | 45.0   | 52.8   | 58.8   | 63.0   | 55.2   | 53.4   |
| 87.5° | 51.0   | 72.6   | 45.6   | 30.6   | 27.0   | 23.4   | 28.2   | 31.2   | 37.8   | 34.8   | 34.2   |
| 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)