

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: P200693

Luminaire Tested: **GWC-AF-01-LED-E1-T4W-8030-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200693  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24147)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GWC-AF-01-LED-E1-T4W-8030-800  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 800mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4162 lumens  
Efficiency: N/A  
Efficacy: 94.6 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 44  
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



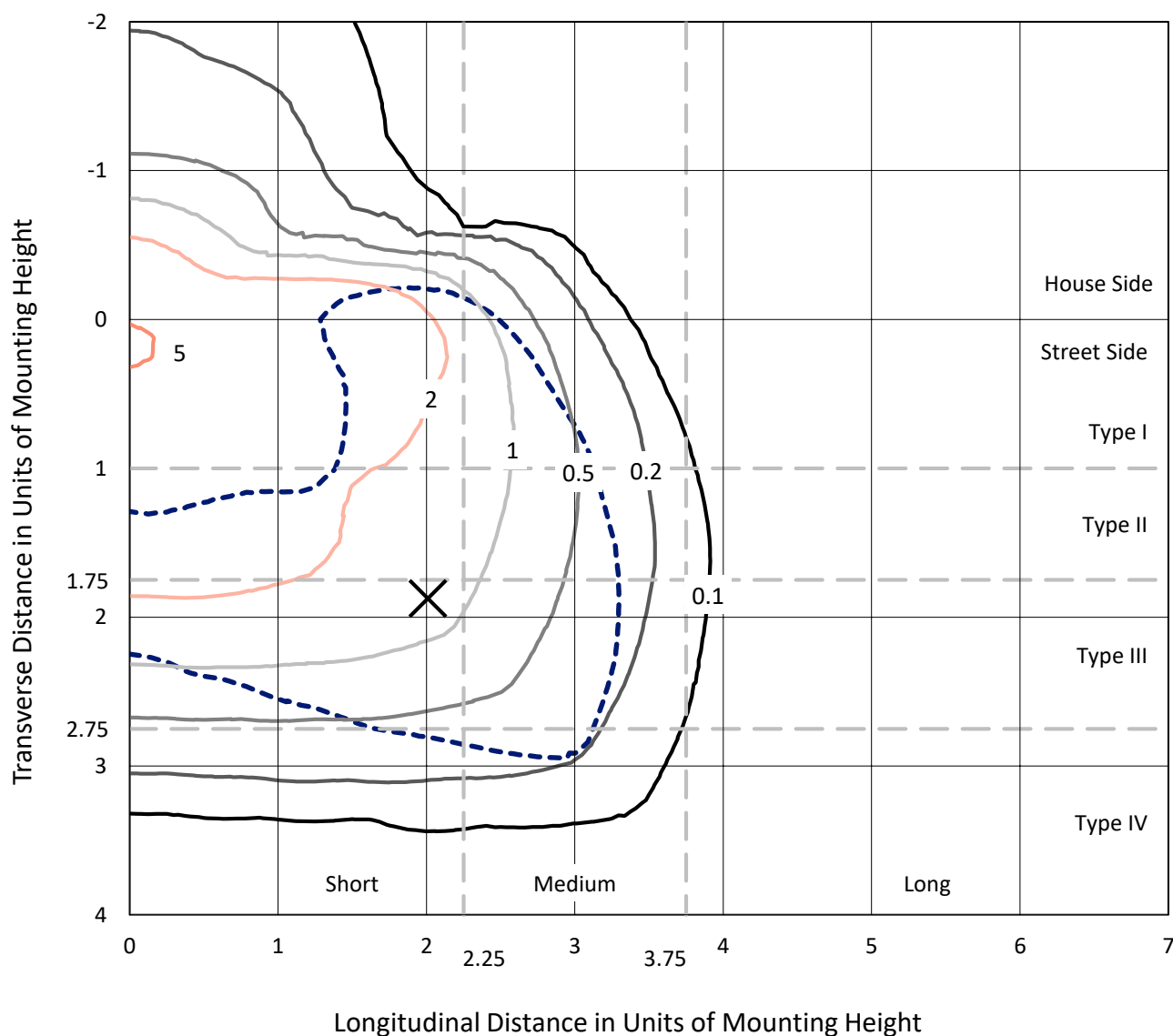
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

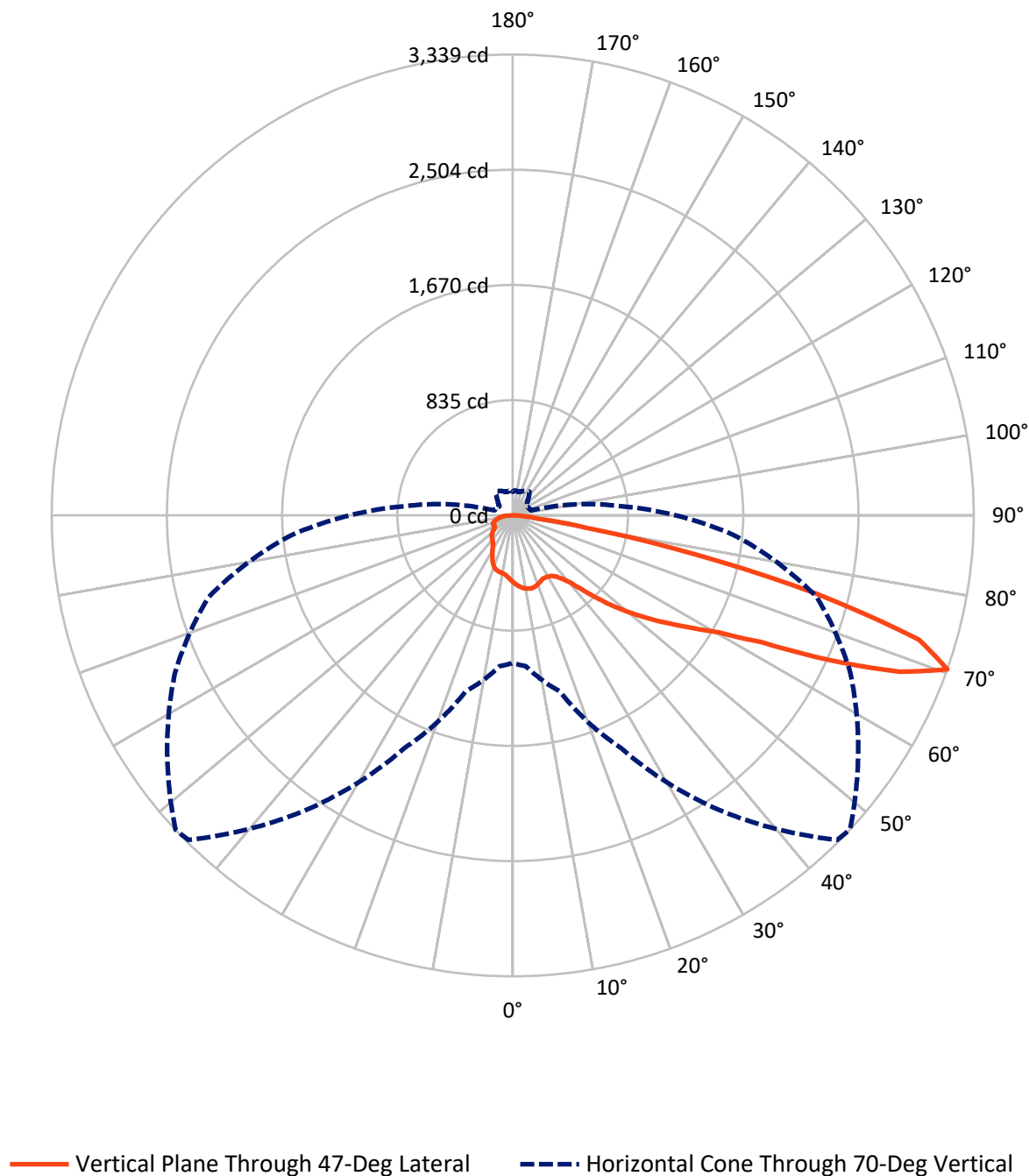


Based on 10 foot mounting height. Maximum calculated value = 5.6 fc  
Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 868.3    | 0.0    | 868.3  |
|                    | % Fixture | 20.9     | 0.0    | 20.9   |
| <b>Street Side</b> | Lumens    | 3293.7   | 0.0    | 3293.7 |
|                    | % Fixture | 79.1     | 0.0    | 79.1   |
| <b>Total</b>       | Lumens    | 4162.0   | 0.0    | 4162.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 46.3   | 1.1       |
| 10°-20°   | 135.7  | 3.3       |
| 20°-30°   | 200.5  | 4.8       |
| 30°-40°   | 291.4  | 7.0       |
| 40°-50°   | 524.4  | 12.6      |
| 50°-60°   | 908.4  | 21.8      |
| 60°-70°   | 1296.6 | 31.2      |
| 70°-80°   | 665.6  | 16.0      |
| 80°-90°   | 93.2   | 2.2       |
| 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°    | 4162.0 | 100.0     |
| 0°-180°   | 4162.0 | 100.0     |

**Coefficient of Utilization**



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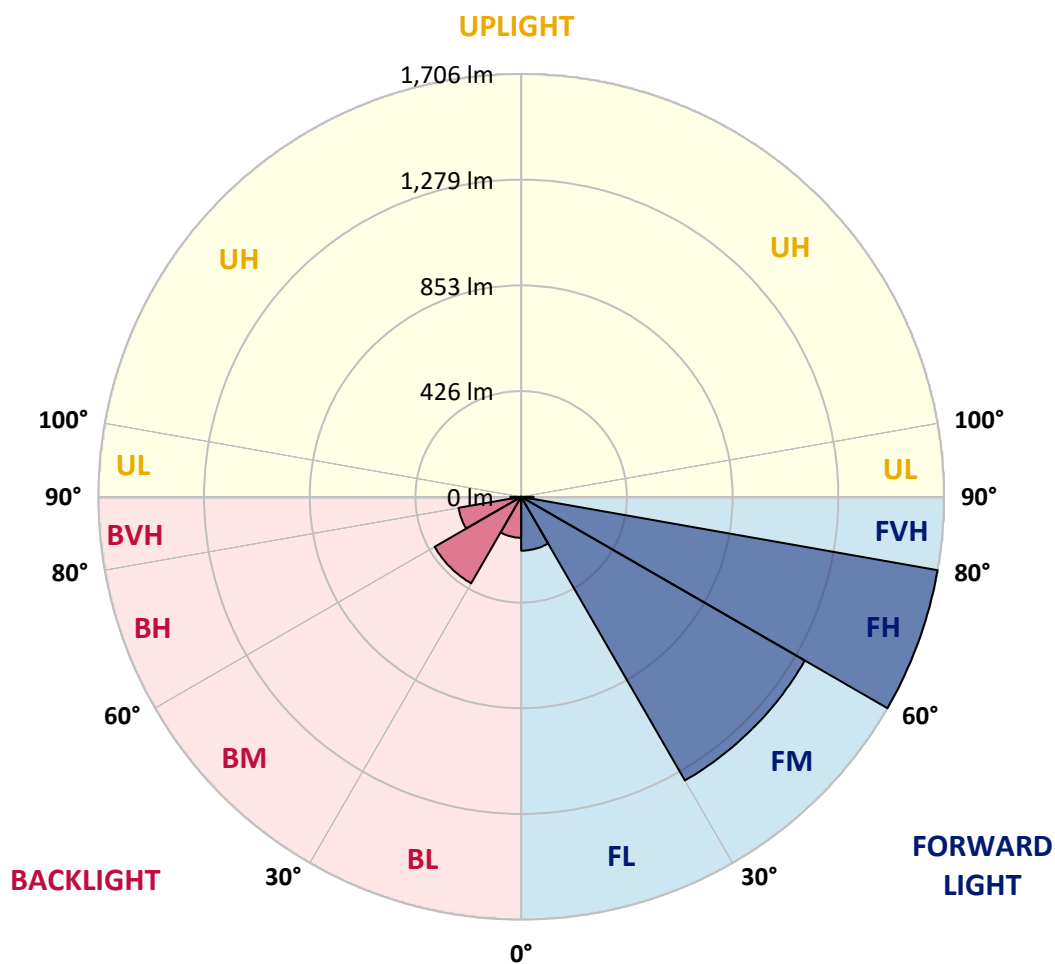
CATALOG NUMBER: GWC-AF-01-LED-E1-T4W-8030-800

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 217.2  | 5.2       |                         |      |         |
| FM   | (30°-60°)   | 1321.1 | 31.7      |                         |      |         |
| FH   | (60°-80°)   | 1705.7 | 41.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 49.7   | 1.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 165.3  | 4.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 403.0  | 9.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 256.5  | 6.2       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 43.5   | 1.0       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B1-U0-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 47°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 482.9  | 482.9  | 482.9  | 482.9  | 482.9  | 482.9  | 482.9  | 482.9  | 482.9  | 482.9  | 482.9  |
| 2.5°  | 511.3  | 510.3  | 509.9  | 509.0  | 508.0  | 503.0  | 502.0  | 498.3  | 493.2  | 488.0  | 482.5  |
| 5°    | 544.9  | 544.7  | 542.5  | 538.4  | 531.9  | 520.8  | 518.2  | 509.2  | 497.3  | 485.8  | 474.2  |
| 7.5°  | 574.4  | 572.6  | 568.4  | 560.3  | 548.9  | 533.7  | 530.1  | 517.7  | 501.3  | 485.6  | 470.0  |
| 10°   | 596.1  | 595.1  | 585.8  | 574.6  | 559.9  | 543.1  | 538.8  | 525.0  | 507.0  | 487.0  | 467.5  |
| 12.5° | 608.5  | 606.4  | 595.7  | 582.3  | 564.7  | 548.3  | 544.1  | 530.1  | 509.9  | 487.0  | 464.1  |
| 15°   | 607.7  | 606.2  | 595.5  | 580.9  | 563.1  | 548.7  | 544.9  | 530.9  | 509.2  | 484.9  | 459.6  |
| 17.5° | 591.5  | 592.1  | 582.9  | 568.6  | 554.0  | 543.1  | 539.6  | 526.7  | 505.2  | 480.9  | 454.4  |
| 20°   | 563.1  | 565.9  | 559.9  | 547.1  | 539.0  | 531.5  | 529.3  | 518.4  | 498.9  | 475.0  | 448.7  |
| 22.5° | 534.8  | 537.4  | 535.0  | 524.2  | 523.0  | 518.6  | 517.3  | 509.4  | 493.5  | 471.4  | 445.3  |
| 25°   | 513.9  | 516.3  | 515.9  | 506.6  | 510.3  | 510.1  | 509.0  | 505.2  | 492.2  | 471.4  | 445.9  |
| 27.5° | 508.2  | 509.0  | 508.2  | 499.7  | 504.8  | 508.8  | 508.0  | 507.4  | 495.9  | 477.3  | 453.6  |
| 30°   | 527.7  | 526.5  | 520.2  | 503.0  | 507.6  | 513.3  | 512.5  | 512.9  | 506.8  | 492.6  | 470.8  |
| 32.5° | 605.2  | 599.8  | 579.9  | 531.5  | 519.2  | 522.2  | 522.6  | 529.3  | 530.3  | 516.3  | 497.5  |
| 35°   | 721.2  | 715.2  | 689.5  | 608.1  | 555.0  | 544.5  | 544.5  | 554.6  | 560.7  | 550.3  | 539.0  |
| 37.5° | 844.2  | 837.5  | 823.7  | 714.2  | 630.3  | 583.2  | 582.1  | 589.2  | 597.9  | 600.4  | 603.2  |
| 40°   | 983.9  | 976.8  | 980.6  | 833.2  | 735.4  | 650.2  | 635.8  | 630.7  | 654.2  | 669.8  | 692.5  |
| 42.5° | 1136.7 | 1133.5 | 1134.9 | 965.8  | 855.1  | 750.4  | 730.0  | 703.8  | 732.2  | 759.9  | 807.5  |
| 45°   | 1278.3 | 1281.1 | 1279.7 | 1107.8 | 988.3  | 872.7  | 851.0  | 800.4  | 828.2  | 875.7  | 953.3  |
| 47.5° | 1402.2 | 1390.4 | 1408.7 | 1262.9 | 1137.5 | 1009.6 | 982.9  | 915.0  | 943.2  | 1001.9 | 1133.1 |
| 50°   | 1552.6 | 1551.0 | 1524.3 | 1469.8 | 1318.0 | 1147.1 | 1112.0 | 1033.5 | 1077.2 | 1158.8 | 1359.7 |
| 52.5° | 1710.8 | 1681.4 | 1656.9 | 1630.8 | 1509.3 | 1288.0 | 1245.1 | 1151.5 | 1234.7 | 1337.4 | 1635.9 |
| 55°   | 1743.2 | 1730.0 | 1760.4 | 1804.3 | 1693.8 | 1434.4 | 1384.4 | 1299.5 | 1412.1 | 1541.5 | 1954.4 |
| 57.5° | 1812.4 | 1812.2 | 1875.0 | 1953.4 | 1883.7 | 1589.7 | 1539.3 | 1478.3 | 1611.6 | 1775.4 | 2292.5 |
| 60°   | 1859.2 | 1872.4 | 1989.0 | 2141.1 | 2070.2 | 1769.1 | 1722.7 | 1684.7 | 1838.3 | 2036.8 | 2607.6 |
| 62.5° | 1883.7 | 1901.5 | 2060.7 | 2217.2 | 2333.8 | 2067.8 | 2021.4 | 1966.5 | 2138.4 | 2323.5 | 2791.8 |
| 65°   | 1781.8 | 1816.9 | 2049.5 | 2283.0 | 2564.6 | 2551.9 | 2531.0 | 2434.7 | 2513.6 | 2550.1 | 2725.2 |
| 67.5° | 1500.0 | 1535.8 | 1806.8 | 2221.6 | 2729.5 | 3018.8 | 3023.3 | 2858.7 | 2744.5 | 2569.5 | 2291.3 |
| 70°   | 1068.7 | 1096.8 | 1321.0 | 1862.6 | 2603.9 | 3324.0 | 3339.1 | 3054.0 | 2698.5 | 2278.7 | 1600.8 |
| 72.5° | 507.4  | 524.6  | 736.8  | 1212.3 | 2066.3 | 3045.5 | 3074.9 | 2804.6 | 2294.5 | 1687.1 | 873.3  |
| 75°   | 186.5  | 191.8  | 249.1  | 515.7  | 1198.5 | 2245.9 | 2280.6 | 2010.5 | 1521.1 | 839.9  | 332.7  |
| 77.5° | 111.8  | 115.2  | 139.7  | 217.7  | 471.4  | 1283.7 | 1335.0 | 1093.4 | 664.8  | 312.6  | 163.6  |
| 80°   | 78.2   | 80.6   | 100.2  | 135.5  | 222.7  | 489.2  | 534.8  | 446.3  | 264.8  | 197.8  | 119.1  |
| 82.5° | 52.8   | 54.1   | 70.5   | 91.5   | 148.0  | 174.7  | 188.5  | 198.4  | 178.6  | 147.2  | 75.5   |
| 85°   | 34.6   | 35.8   | 47.8   | 60.3   | 94.2   | 90.3   | 92.3   | 116.8  | 130.4  | 100.0  | 41.9   |
| 87.5° | 19.8   | 20.7   | 28.8   | 32.2   | 46.2   | 38.3   | 38.7   | 61.6   | 83.4   | 67.4   | 25.5   |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 482.9  | 482.9  | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 | 482.9 |
| 2.5°  | 481.1  | 478.5  | 472.6 | 469.0 | 465.5 | 464.7 | 463.3 | 463.1 | 462.9 | 462.9 | 462.3 |
| 5°    | 470.4  | 465.9  | 456.8 | 451.7 | 447.5 | 447.1 | 446.9 | 447.9 | 448.3 | 448.7 | 448.1 |
| 7.5°  | 463.5  | 457.4  | 446.1 | 438.8 | 433.7 | 432.5 | 434.5 | 439.2 | 442.2 | 443.4 | 442.8 |
| 10°   | 459.2  | 451.7  | 438.6 | 430.7 | 426.4 | 425.8 | 428.5 | 433.9 | 440.2 | 442.6 | 442.4 |
| 12.5° | 454.4  | 445.9  | 431.9 | 423.6 | 421.2 | 422.4 | 425.8 | 430.9 | 437.4 | 441.2 | 441.4 |
| 15°   | 449.5  | 439.6  | 425.2 | 417.9 | 416.9 | 418.5 | 421.8 | 425.6 | 430.7 | 434.5 | 434.9 |
| 17.5° | 443.6  | 433.3  | 418.9 | 411.4 | 410.6 | 411.4 | 411.6 | 413.7 | 416.9 | 420.6 | 421.6 |
| 20°   | 437.4  | 426.8  | 411.9 | 404.4 | 400.7 | 397.5 | 393.8 | 394.2 | 395.2 | 398.9 | 399.7 |
| 22.5° | 432.9  | 422.4  | 406.4 | 396.1 | 386.3 | 376.6 | 369.3 | 368.3 | 368.7 | 371.8 | 372.8 |
| 25°   | 433.3  | 422.2  | 405.0 | 387.1 | 365.9 | 350.3 | 340.6 | 339.0 | 338.8 | 341.0 | 342.4 |
| 27.5° | 441.2  | 430.1  | 410.2 | 378.0 | 343.6 | 320.5 | 310.2 | 309.0 | 307.4 | 308.0 | 309.6 |
| 30°   | 458.8  | 448.5  | 423.0 | 368.7 | 319.5 | 291.4 | 280.6 | 279.4 | 277.2 | 276.2 | 277.4 |
| 32.5° | 487.6  | 479.1  | 441.6 | 359.8 | 295.4 | 266.5 | 255.5 | 252.9 | 251.5 | 250.3 | 251.3 |
| 35°   | 535.4  | 531.7  | 466.5 | 350.1 | 274.2 | 247.2 | 237.3 | 233.3 | 231.2 | 233.5 | 235.1 |
| 37.5° | 610.3  | 612.3  | 499.1 | 334.9 | 257.8 | 234.5 | 226.2 | 221.5 | 218.5 | 220.3 | 222.1 |
| 40°   | 716.4  | 717.8  | 535.2 | 313.4 | 243.6 | 227.0 | 218.1 | 213.8 | 209.6 | 206.3 | 206.1 |
| 42.5° | 855.7  | 841.3  | 570.6 | 290.2 | 227.2 | 222.3 | 212.4 | 207.1 | 200.7 | 191.8 | 189.9 |
| 45°   | 1020.9 | 970.5  | 597.5 | 263.4 | 208.8 | 216.7 | 206.1 | 198.8 | 188.7 | 179.0 | 178.0 |
| 47.5° | 1211.3 | 1109.2 | 610.7 | 235.7 | 191.5 | 208.4 | 198.4 | 186.9 | 174.1 | 169.3 | 168.7 |
| 50°   | 1443.7 | 1273.8 | 617.0 | 208.8 | 176.6 | 197.4 | 187.3 | 173.7 | 163.0 | 162.0 | 161.4 |
| 52.5° | 1708.3 | 1471.8 | 619.0 | 186.7 | 164.2 | 183.2 | 178.2 | 165.0 | 156.5 | 157.3 | 157.3 |
| 55°   | 1985.3 | 1676.4 | 591.5 | 170.7 | 152.9 | 168.7 | 172.1 | 161.6 | 154.5 | 157.7 | 158.9 |
| 57.5° | 2239.7 | 1857.6 | 504.8 | 158.3 | 142.1 | 157.5 | 169.9 | 164.8 | 160.0 | 173.1 | 173.9 |
| 60°   | 2434.9 | 1964.7 | 377.0 | 147.2 | 134.2 | 153.7 | 175.8 | 177.2 | 178.4 | 209.8 | 214.0 |
| 62.5° | 2475.8 | 1929.1 | 259.2 | 138.5 | 130.6 | 156.9 | 186.5 | 186.7 | 185.3 | 207.1 | 209.8 |
| 65°   | 2288.1 | 1703.7 | 188.5 | 133.6 | 127.6 | 162.8 | 195.6 | 191.3 | 182.0 | 198.6 | 193.8 |
| 67.5° | 1817.1 | 1283.5 | 156.9 | 130.0 | 123.1 | 162.4 | 205.3 | 195.6 | 180.2 | 194.6 | 186.7 |
| 70°   | 1179.5 | 776.1  | 139.7 | 127.0 | 117.8 | 154.7 | 211.0 | 195.2 | 174.9 | 181.0 | 171.7 |
| 72.5° | 575.5  | 347.1  | 128.2 | 122.5 | 112.4 | 144.0 | 210.8 | 191.5 | 169.5 | 169.1 | 164.0 |
| 75°   | 225.2  | 158.9  | 117.6 | 115.8 | 103.1 | 131.8 | 205.1 | 186.3 | 163.0 | 156.5 | 154.7 |
| 77.5° | 131.8  | 113.4  | 104.3 | 105.9 | 91.9  | 119.7 | 196.8 | 177.2 | 154.1 | 146.4 | 144.4 |
| 80°   | 96.0   | 84.8   | 88.9  | 91.5  | 78.6  | 107.5 | 185.7 | 166.0 | 144.2 | 148.0 | 145.2 |
| 82.5° | 61.6   | 54.7   | 72.1  | 74.7  | 65.4  | 95.2  | 173.5 | 154.3 | 130.2 | 118.2 | 115.4 |
| 85°   | 31.4   | 34.6   | 53.7  | 56.9  | 50.4  | 78.2  | 158.7 | 138.7 | 114.4 | 98.4  | 100.0 |
| 87.5° | 17.6   | 23.7   | 34.2  | 38.3  | 35.6  | 60.1  | 128.8 | 114.4 | 93.3  | 75.9  | 66.8  |
| 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)