

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: P200633

Luminaire Tested: **GWC-AF-01-LED-E1-SL4-8030-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P200633  
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-01-LED-E1-SL4-8030-1200  
Description: GALLEON WALL LUMINAIRE  
(1) 80 CRI, 3000K, 1200mA LIGHTSQUARE 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: 5407 lumens  
Efficiency: N/A  
Efficacy: 80.7 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 - G2

Input Watts (W): 67  
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

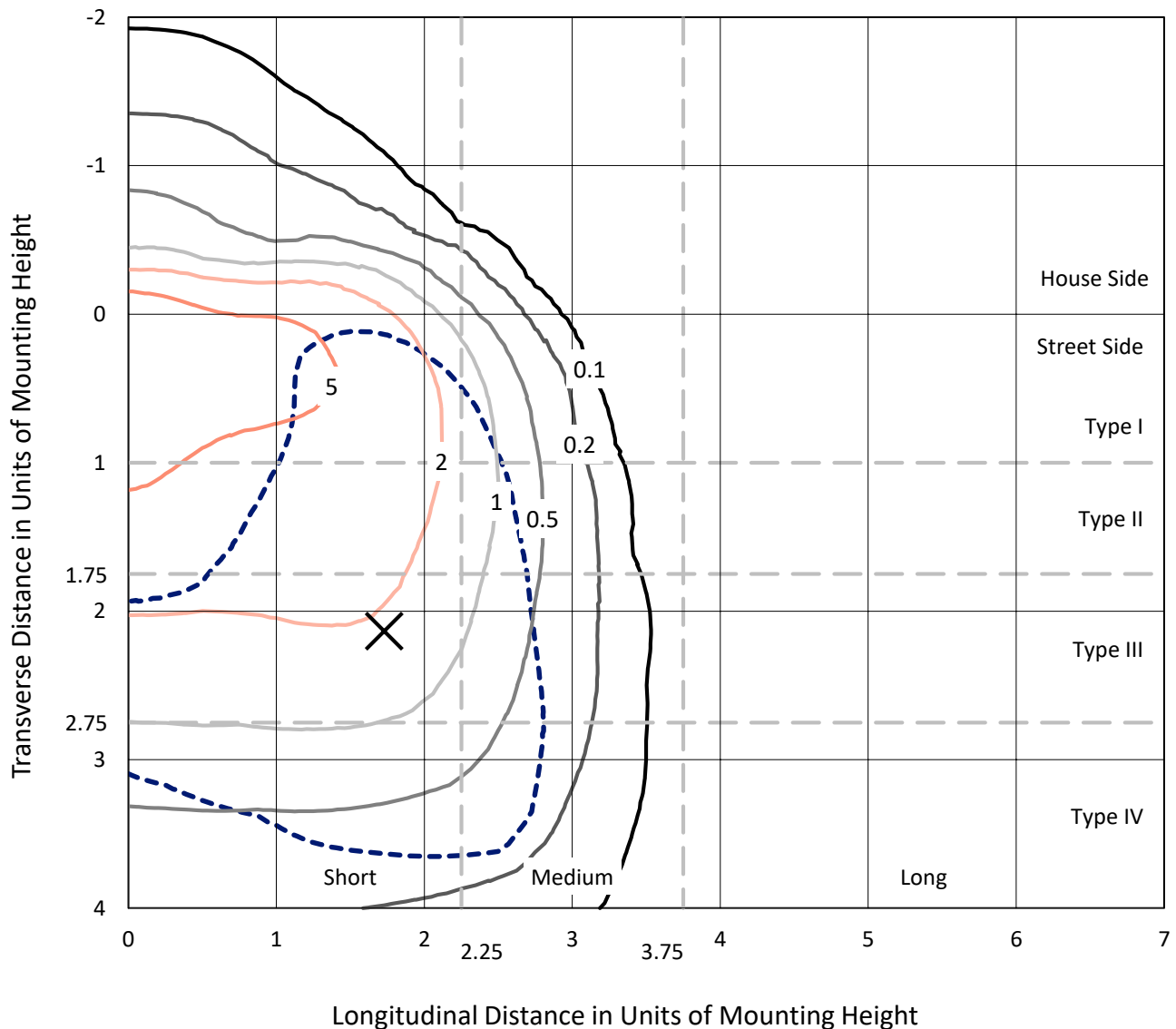


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

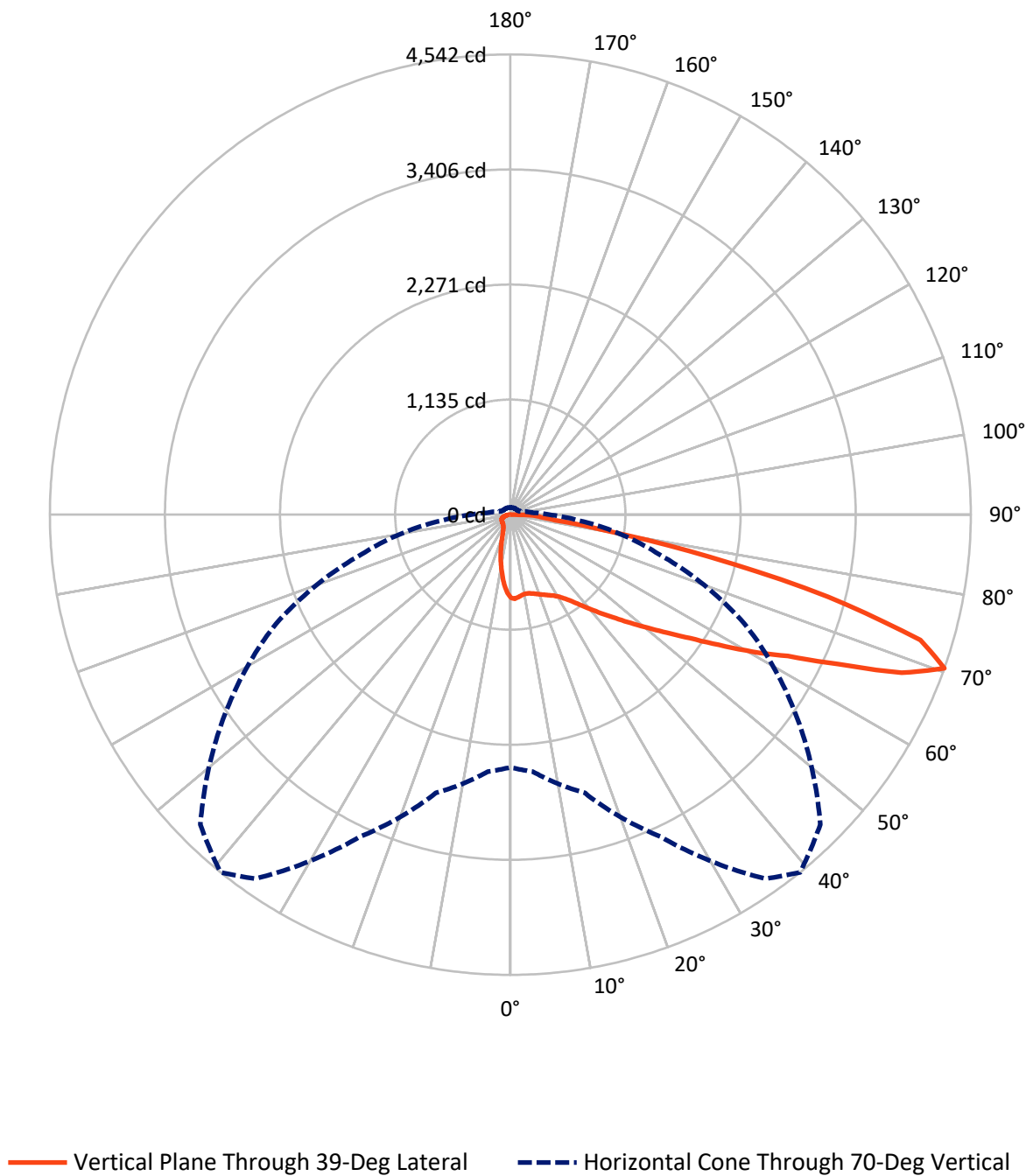


Based on 10 foot mounting height. Maximum calculated value = 8.2 fc  
Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 615.0    | 0.0    | 615.0  |
|                    | % Fixture | 11.4     | 0.0    | 11.4   |
| <b>Street Side</b> | Lumens    | 4792.0   | 0.0    | 4792.0 |
|                    | % Fixture | 88.6     | 0.0    | 88.6   |
| <b>Total</b>       | Lumens    | 5407.0   | 0.0    | 5407.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 70.4   | 1.3       |
| 10°-20°   | 176.1  | 3.3       |
| 20°-30°   | 274.2  | 5.1       |
| 30°-40°   | 427.1  | 7.9       |
| 40°-50°   | 717.0  | 13.3      |
| 50°-60°   | 1139.1 | 21.1      |
| 60°-70°   | 1519.4 | 28.1      |
| 70°-80°   | 917.5  | 17.0      |
| 80°-90°   | 166.1  | 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°    | 5407.0 | 100.0     |
| 0°-180°   | 5407.0 | 100.0     |

**Coefficient of Utilization**



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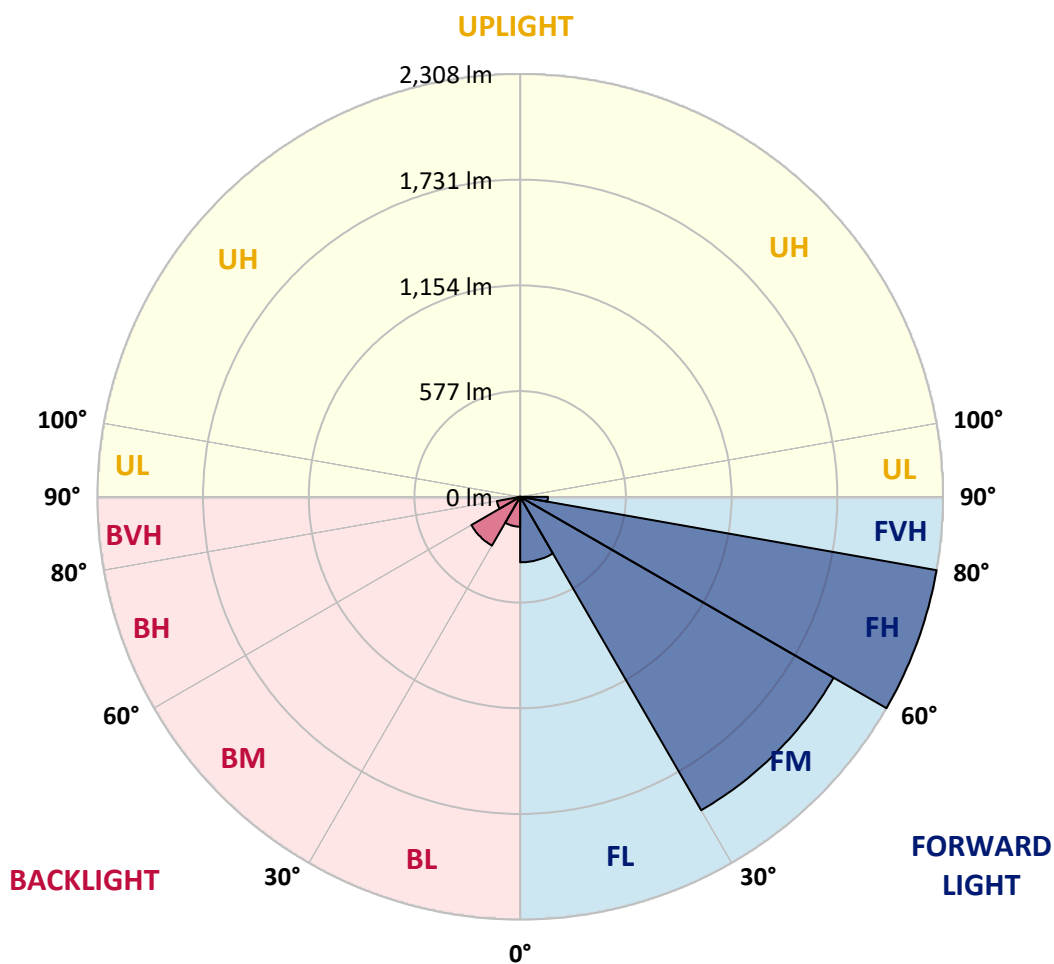
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 357.6  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 1975.5 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 2307.9 | 42.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 151.1  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 163.1  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 307.8  | 5.7       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 129.1  | 2.4       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 15.0   | 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-G2**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 39°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  | 820.9  |
| 2.5°  | 836.8  | 836.5  | 834.3  | 832.7  | 831.3  | 830.8  | 831.9  | 827.7  | 824.2  | 819.8  | 815.1  |
| 5°    | 830.5  | 830.2  | 826.6  | 823.3  | 820.0  | 818.9  | 818.7  | 811.2  | 806.8  | 800.2  | 791.5  |
| 7.5°  | 823.6  | 822.2  | 817.6  | 812.1  | 806.3  | 803.5  | 800.8  | 791.2  | 786.2  | 779.6  | 769.5  |
| 10°   | 816.5  | 814.8  | 810.4  | 804.9  | 799.4  | 795.3  | 790.6  | 781.3  | 776.1  | 771.1  | 759.3  |
| 12.5° | 809.0  | 807.7  | 806.6  | 804.1  | 800.2  | 796.7  | 793.1  | 785.1  | 779.6  | 773.9  | 760.1  |
| 15°   | 807.9  | 807.4  | 809.9  | 811.5  | 809.3  | 807.1  | 803.3  | 796.4  | 790.6  | 784.9  | 767.0  |
| 17.5° | 816.7  | 816.5  | 822.8  | 827.2  | 826.1  | 822.2  | 817.0  | 809.3  | 804.6  | 799.7  | 777.4  |
| 20°   | 836.0  | 837.4  | 845.1  | 850.8  | 845.3  | 839.8  | 831.3  | 820.6  | 818.1  | 815.9  | 788.2  |
| 22.5° | 872.3  | 873.6  | 879.1  | 881.3  | 867.1  | 859.1  | 847.3  | 833.5  | 831.9  | 833.5  | 801.1  |
| 25°   | 928.9  | 927.5  | 926.7  | 918.5  | 892.3  | 880.0  | 864.9  | 850.6  | 851.4  | 858.8  | 819.2  |
| 27.5° | 1004.0 | 996.5  | 985.0  | 960.2  | 918.7  | 905.0  | 886.6  | 873.4  | 878.6  | 892.9  | 846.4  |
| 30°   | 1081.8 | 1073.5 | 1046.8 | 1006.4 | 953.4  | 938.3  | 917.6  | 902.8  | 916.5  | 939.1  | 882.7  |
| 32.5° | 1153.8 | 1152.7 | 1113.6 | 1061.7 | 1001.2 | 988.0  | 967.4  | 950.6  | 972.9  | 1007.3 | 937.2  |
| 35°   | 1232.4 | 1234.9 | 1188.1 | 1125.7 | 1065.8 | 1052.1 | 1037.2 | 1024.6 | 1054.3 | 1101.5 | 1016.0 |
| 37.5° | 1316.5 | 1321.5 | 1266.2 | 1195.8 | 1139.5 | 1133.7 | 1124.9 | 1119.4 | 1165.3 | 1230.7 | 1126.3 |
| 40°   | 1429.0 | 1424.0 | 1347.3 | 1275.0 | 1229.9 | 1229.7 | 1226.9 | 1233.5 | 1309.9 | 1399.5 | 1267.9 |
| 42.5° | 1549.4 | 1534.8 | 1433.4 | 1360.0 | 1329.2 | 1338.5 | 1344.0 | 1371.0 | 1483.9 | 1604.6 | 1440.5 |
| 45°   | 1679.1 | 1646.4 | 1522.7 | 1449.8 | 1439.4 | 1459.2 | 1477.9 | 1536.4 | 1688.7 | 1838.0 | 1629.6 |
| 47.5° | 1782.8 | 1751.1 | 1615.1 | 1544.1 | 1567.0 | 1596.9 | 1632.9 | 1725.6 | 1918.0 | 2079.1 | 1816.3 |
| 50°   | 1864.4 | 1843.8 | 1708.3 | 1654.1 | 1707.4 | 1753.6 | 1812.4 | 1939.7 | 2156.6 | 2313.9 | 1989.2 |
| 52.5° | 1943.6 | 1928.2 | 1802.3 | 1766.8 | 1872.4 | 1936.2 | 2016.2 | 2169.6 | 2401.3 | 2544.8 | 2134.6 |
| 55°   | 2015.1 | 2004.1 | 1903.4 | 1907.3 | 2066.5 | 2149.5 | 2250.1 | 2431.3 | 2668.0 | 2750.7 | 2257.8 |
| 57.5° | 2095.6 | 2081.6 | 2018.9 | 2083.5 | 2315.8 | 2423.6 | 2554.4 | 2725.4 | 2918.1 | 2933.8 | 2351.5 |
| 60°   | 2176.7 | 2164.6 | 2147.0 | 2286.9 | 2632.5 | 2745.8 | 2869.7 | 3010.5 | 3171.9 | 3075.9 | 2346.0 |
| 62.5° | 2247.1 | 2248.4 | 2279.5 | 2500.5 | 2942.6 | 3073.7 | 3224.9 | 3364.0 | 3401.4 | 3100.7 | 2172.6 |
| 65°   | 2366.4 | 2388.1 | 2480.7 | 2802.9 | 3379.1 | 3554.5 | 3740.1 | 3717.8 | 3464.9 | 2869.5 | 1800.6 |
| 67.5° | 2508.2 | 2546.4 | 2734.2 | 3205.9 | 3930.9 | 4163.7 | 4235.5 | 3797.8 | 3210.6 | 2332.6 | 1283.5 |
| 70°   | 2493.9 | 2546.4 | 2843.6 | 3506.4 | 4385.6 | 4541.7 | 4324.0 | 3437.1 | 2549.5 | 1523.8 | 681.8  |
| 72.5° | 2214.6 | 2289.7 | 2620.7 | 3368.7 | 4242.3 | 4228.6 | 3753.8 | 2562.4 | 1514.7 | 611.9  | 266.4  |
| 75°   | 1687.9 | 1763.8 | 2048.6 | 2661.4 | 3353.0 | 3237.6 | 2663.6 | 1415.5 | 574.8  | 243.0  | 168.0  |
| 77.5° | 971.0  | 1029.8 | 1249.7 | 1632.1 | 2127.2 | 2008.7 | 1482.6 | 629.5  | 279.9  | 169.3  | 131.1  |
| 80°   | 542.1  | 574.8  | 708.4  | 828.0  | 1042.4 | 955.6  | 663.3  | 391.2  | 208.9  | 122.9  | 101.2  |
| 82.5° | 428.6  | 457.7  | 572.9  | 522.3  | 476.1  | 439.3  | 381.0  | 348.3  | 166.9  | 77.5   | 60.5   |
| 85°   | 374.4  | 402.2  | 484.9  | 411.3  | 325.2  | 298.3  | 309.5  | 342.8  | 129.8  | 46.7   | 51.7   |
| 87.5° | 346.9  | 384.0  | 432.2  | 317.0  | 253.2  | 224.3  | 285.6  | 375.8  | 41.8   | 29.1   | 20.9   |
| 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°    | 820.9  | 820.9  | 820.9 | 820.9 | 820.9 | 820.9 | 820.9 | 820.9 | 820.9 | 820.9 | 820.9 |
| 2.5°  | 811.0  | 806.6  | 799.4 | 793.1 | 783.2 | 778.0 | 772.2 | 768.1 | 764.8 | 762.0 | 766.4 |
| 5°    | 786.0  | 777.7  | 762.6 | 746.4 | 727.1 | 712.0 | 699.4 | 687.5 | 679.3 | 673.8 | 677.6 |
| 7.5°  | 762.3  | 748.8  | 725.2 | 695.8 | 662.8 | 634.8 | 611.7 | 591.3 | 577.3 | 568.2 | 571.8 |
| 10°   | 748.8  | 732.1  | 695.5 | 649.3 | 600.7 | 557.0 | 520.7 | 489.3 | 467.6 | 455.2 | 457.2 |
| 12.5° | 745.5  | 723.8  | 673.2 | 609.7 | 543.2 | 482.5 | 431.3 | 387.9 | 357.4 | 341.4 | 342.0 |
| 15°   | 748.0  | 720.3  | 652.3 | 571.8 | 487.7 | 411.0 | 347.2 | 294.4 | 259.0 | 240.8 | 240.5 |
| 17.5° | 752.1  | 717.5  | 630.4 | 530.8 | 431.3 | 342.3 | 271.1 | 219.4 | 188.0 | 173.5 | 172.4 |
| 20°   | 756.5  | 713.1  | 605.6 | 486.6 | 372.8 | 278.5 | 212.2 | 171.8 | 152.0 | 144.1 | 143.5 |
| 22.5° | 762.9  | 709.3  | 580.0 | 439.8 | 315.3 | 226.8 | 174.6 | 147.3 | 136.9 | 132.8 | 132.2 |
| 25°   | 773.0  | 707.3  | 552.8 | 391.2 | 263.6 | 189.7 | 152.0 | 135.3 | 129.2 | 126.5 | 126.2 |
| 27.5° | 790.1  | 710.1  | 527.3 | 343.9 | 221.6 | 164.7 | 139.4 | 129.2 | 124.8 | 122.3 | 122.1 |
| 30°   | 812.1  | 718.6  | 500.3 | 299.1 | 188.9 | 147.6 | 131.7 | 125.1 | 121.5 | 119.0 | 119.0 |
| 32.5° | 848.6  | 732.9  | 472.0 | 260.3 | 165.5 | 135.8 | 125.9 | 121.5 | 118.5 | 116.6 | 116.3 |
| 35°   | 902.5  | 759.8  | 445.6 | 228.2 | 148.7 | 127.3 | 121.0 | 117.7 | 115.5 | 114.4 | 114.4 |
| 37.5° | 980.9  | 802.4  | 422.3 | 205.1 | 138.6 | 121.5 | 116.3 | 113.8 | 112.4 | 112.4 | 112.4 |
| 40°   | 1086.1 | 861.3  | 403.3 | 189.7 | 132.8 | 117.4 | 112.7 | 110.8 | 110.0 | 110.2 | 110.2 |
| 42.5° | 1216.2 | 937.7  | 390.6 | 179.0 | 130.0 | 114.9 | 110.2 | 108.6 | 107.8 | 107.5 | 107.8 |
| 45°   | 1364.4 | 1024.6 | 389.3 | 171.0 | 127.3 | 113.3 | 108.6 | 106.9 | 105.3 | 104.2 | 104.2 |
| 47.5° | 1508.4 | 1112.8 | 400.5 | 168.2 | 124.3 | 111.3 | 107.2 | 105.6 | 103.1 | 100.6 | 100.6 |
| 50°   | 1635.7 | 1187.9 | 415.7 | 169.3 | 123.2 | 108.6 | 105.0 | 104.2 | 100.3 | 97.6  | 97.3  |
| 52.5° | 1736.8 | 1245.6 | 428.0 | 172.6 | 124.3 | 106.7 | 102.3 | 102.5 | 98.4  | 95.4  | 95.1  |
| 55°   | 1817.9 | 1283.5 | 424.7 | 175.9 | 126.7 | 105.6 | 99.8  | 100.3 | 97.0  | 94.0  | 94.0  |
| 57.5° | 1853.4 | 1269.5 | 388.2 | 173.2 | 128.7 | 105.8 | 97.9  | 100.1 | 97.3  | 94.6  | 94.6  |
| 60°   | 1777.3 | 1145.0 | 319.7 | 161.1 | 126.2 | 105.0 | 97.0  | 101.2 | 100.9 | 98.1  | 97.9  |
| 62.5° | 1546.9 | 922.0  | 248.0 | 143.2 | 117.7 | 100.9 | 94.8  | 100.9 | 103.9 | 103.1 | 102.8 |
| 65°   | 1192.3 | 656.7  | 189.4 | 124.0 | 106.1 | 94.0  | 89.1  | 94.6  | 98.7  | 99.8  | 99.5  |
| 67.5° | 773.9  | 402.5  | 146.0 | 105.8 | 93.2  | 86.0  | 81.6  | 84.1  | 84.9  | 84.9  | 84.4  |
| 70°   | 380.5  | 216.6  | 116.3 | 89.1  | 80.0  | 77.5  | 75.0  | 73.7  | 72.3  | 71.2  | 71.2  |
| 72.5° | 187.8  | 141.6  | 95.7  | 75.3  | 69.0  | 67.9  | 67.4  | 65.7  | 64.6  | 63.2  | 62.7  |
| 75°   | 138.8  | 115.2  | 81.4  | 63.5  | 59.4  | 58.3  | 59.4  | 58.0  | 57.7  | 56.6  | 56.1  |
| 77.5° | 114.1  | 98.1   | 70.1  | 54.4  | 50.9  | 48.9  | 50.6  | 50.9  | 51.1  | 49.5  | 48.9  |
| 80°   | 92.6   | 83.0   | 58.6  | 45.1  | 41.8  | 40.4  | 41.5  | 43.7  | 44.3  | 41.8  | 40.7  |
| 82.5° | 66.8   | 67.9   | 47.3  | 35.2  | 32.4  | 31.3  | 33.5  | 36.3  | 36.8  | 33.3  | 32.4  |
| 85°   | 56.1   | 56.6   | 36.3  | 25.0  | 22.3  | 20.6  | 24.2  | 26.9  | 28.9  | 25.3  | 24.5  |
| 87.5° | 23.4   | 33.3   | 20.9  | 14.0  | 12.4  | 10.7  | 12.9  | 14.3  | 17.3  | 15.9  | 15.7  |
| 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)