

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: P194879

Luminaire Tested: **GLEON-AF-01-LED-E1-T4FT-7060-1200**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P194879  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24295)  
Test Lab: INNOVATION CENTER P2  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GLEON-AF-01-LED-E1-T4FT-7060-1200  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5700K, 1200mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE IV  
FORWARD THROW OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6878 lumens  
Efficiency: N/A  
Efficacy: 102.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short - Non-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

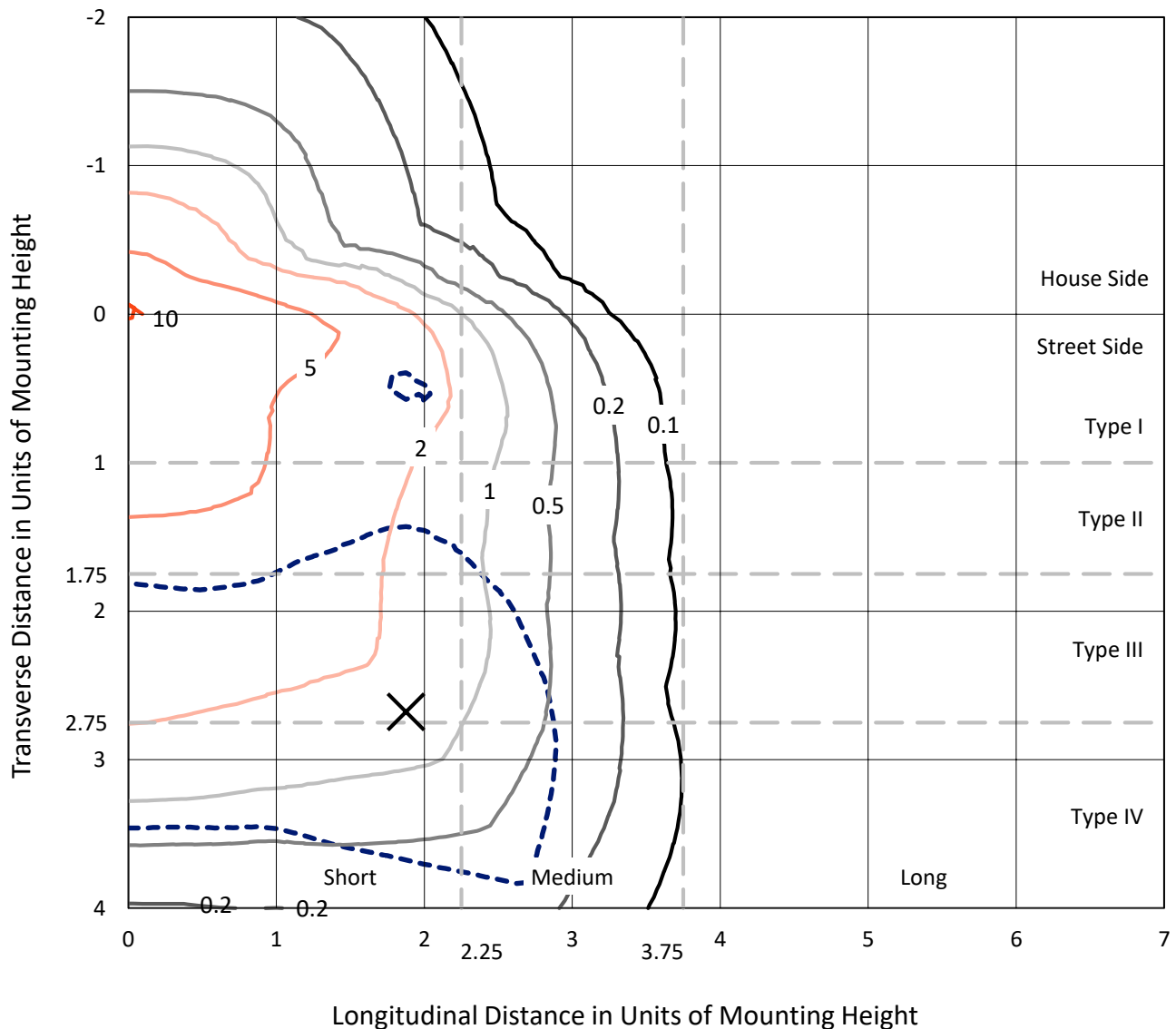


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
- - - 1/2 Max cd

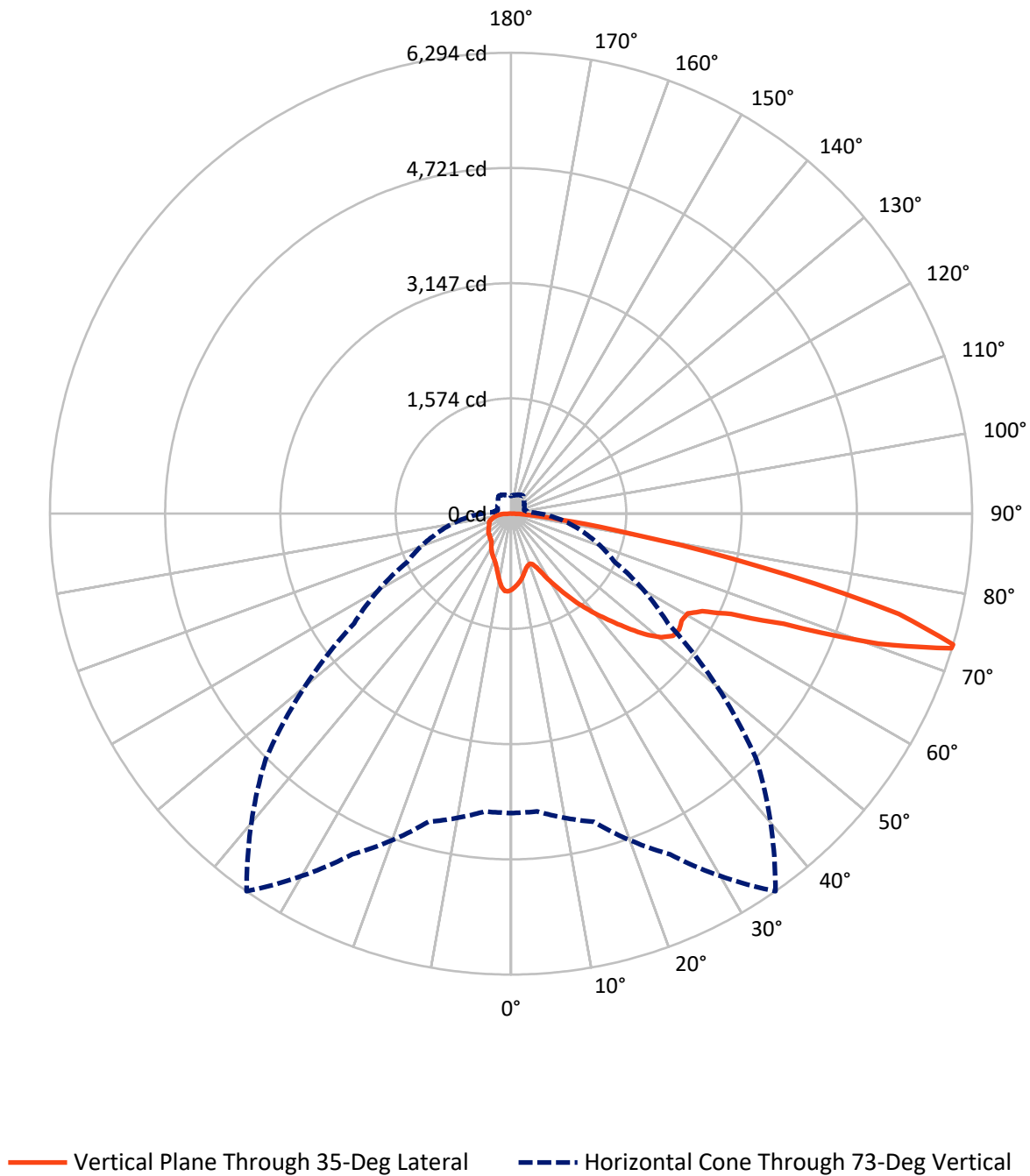


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc  
Type IV - Short - Non-Cutoff

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## Luminous Intensity Polar Plot



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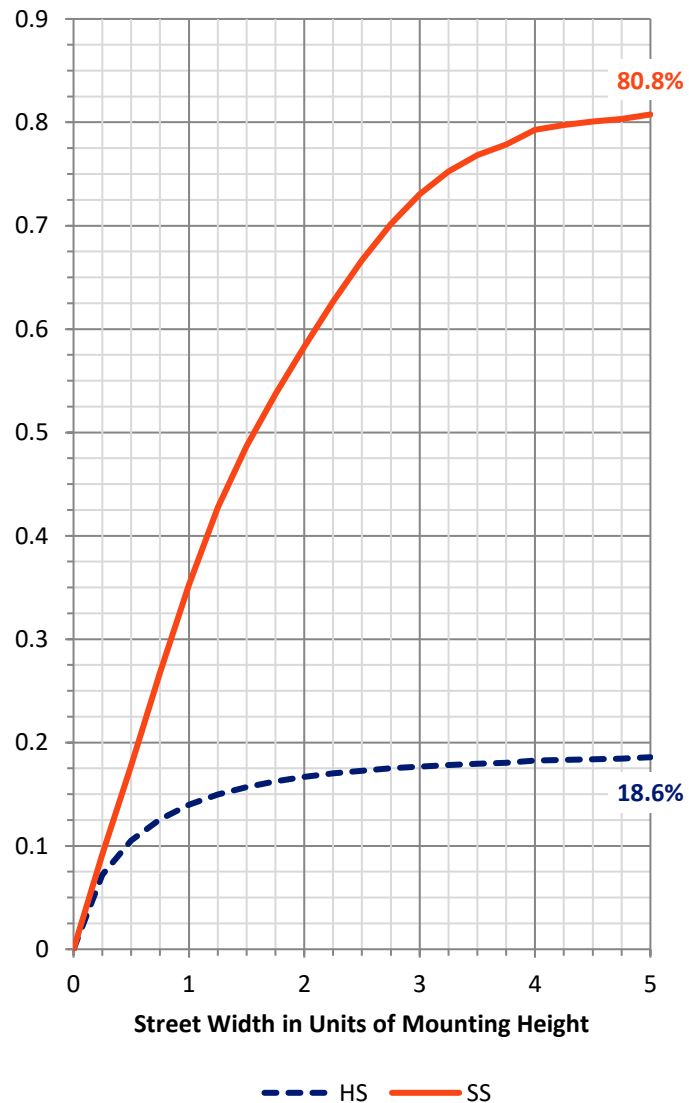
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 1311.8   | 0.0    | 1311.8 |
|                    | % Fixture | 19.1     | 0.0    | 19.1   |
| <b>Street Side</b> | Lumens    | 5566.2   | 0.0    | 5566.2 |
|                    | % Fixture | 80.9     | 0.0    | 80.9   |
| <b>Total</b>       | Lumens    | 6878.0   | 0.0    | 6878.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 94.0   | 1.4       |
| 10°-20°   | 234.6  | 3.4       |
| 20°-30°   | 379.2  | 5.5       |
| 30°-40°   | 635.9  | 9.2       |
| 40°-50°   | 980.1  | 14.3      |
| 50°-60°   | 1315.0 | 19.1      |
| 60°-70°   | 1751.8 | 25.5      |
| 70°-80°   | 1336.1 | 19.4      |
| 80°-90°   | 151.4  | 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°    | 6878.0 | 100.0     |
| 0°-180°   | 6878.0 | 100.0     |

**Coefficient of Utilization**



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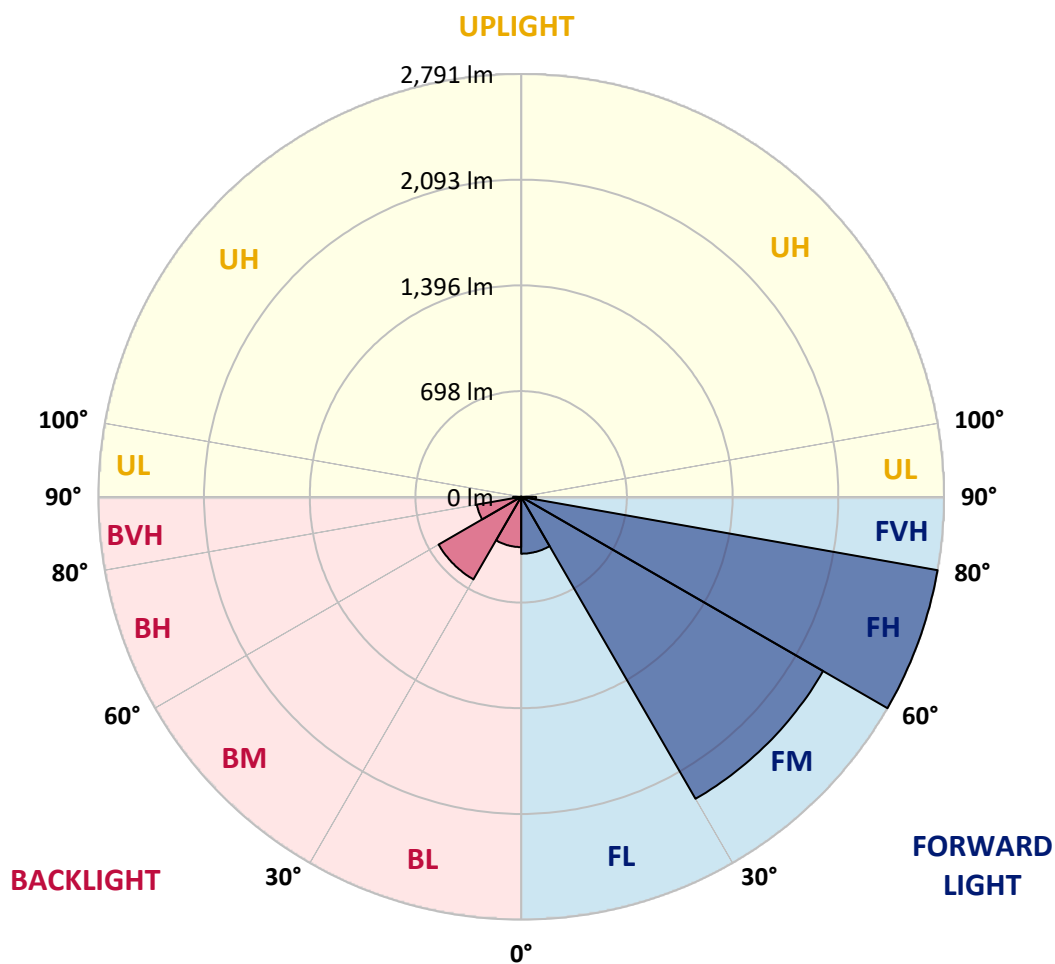
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 375.8  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 2301.4 | 33.5      |                         |      |         |
| FH   | (60°-80°)   | 2791.1 | 40.6      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 97.9   | 1.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 332.0  | 4.8       | B1/500                  |      |         |
| BM   | (30°-60°)   | 629.5  | 9.2       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 296.8  | 4.3       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 53.6   | 0.8       |                         |      | 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°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 |
| 2.5°  | 997.1  | 999.1  | 996.8  | 999.8  | 1004.7 | 1010.0 | 1013.7 | 1018.9 | 1024.9 | 1033.1 | 1035.1 |
| 5°    | 950.2  | 953.2  | 953.2  | 958.5  | 968.1  | 976.7  | 984.6  | 993.2  | 1005.7 | 1019.9 | 1025.6 |
| 7.5°  | 898.7  | 900.4  | 903.3  | 911.3  | 925.1  | 937.4  | 948.6  | 962.5  | 979.6  | 998.5  | 1008.4 |
| 10°   | 836.6  | 838.9  | 843.6  | 854.8  | 873.6  | 890.5  | 906.6  | 925.8  | 947.6  | 971.1  | 983.6  |
| 12.5° | 792.7  | 792.0  | 794.0  | 802.3  | 818.8  | 839.3  | 862.7  | 887.2  | 913.9  | 941.3  | 956.5  |
| 15°   | 777.8  | 774.2  | 766.6  | 764.6  | 773.5  | 794.0  | 821.1  | 851.2  | 883.2  | 916.2  | 935.1  |
| 17.5° | 787.1  | 780.8  | 760.0  | 744.8  | 743.5  | 759.0  | 787.7  | 821.4  | 858.4  | 898.7  | 922.2  |
| 20°   | 845.2  | 830.4  | 779.2  | 743.8  | 731.6  | 739.2  | 764.3  | 800.0  | 843.6  | 897.1  | 927.1  |
| 22.5° | 984.3  | 962.5  | 853.8  | 788.1  | 746.8  | 737.5  | 756.4  | 794.3  | 845.2  | 917.5  | 955.9  |
| 25°   | 1186.7 | 1155.7 | 982.0  | 898.4  | 813.2  | 764.0  | 768.3  | 807.2  | 868.7  | 965.1  | 1011.4 |
| 27.5° | 1346.6 | 1326.4 | 1149.4 | 1054.0 | 934.1  | 835.3  | 806.9  | 839.6  | 916.6  | 1043.1 | 1090.3 |
| 30°   | 1441.7 | 1429.5 | 1328.4 | 1230.3 | 1088.3 | 948.9  | 880.9  | 900.4  | 991.5  | 1151.1 | 1190.0 |
| 32.5° | 1552.0 | 1544.8 | 1495.2 | 1405.1 | 1254.8 | 1098.2 | 998.1  | 991.2  | 1091.9 | 1280.9 | 1298.7 |
| 35°   | 1666.3 | 1664.0 | 1634.9 | 1570.2 | 1433.5 | 1295.1 | 1153.7 | 1106.8 | 1201.3 | 1415.6 | 1404.4 |
| 37.5° | 1772.7 | 1768.7 | 1751.9 | 1714.2 | 1620.4 | 1506.5 | 1312.2 | 1225.4 | 1319.2 | 1544.4 | 1494.6 |
| 40°   | 1968.5 | 1937.5 | 1879.7 | 1851.3 | 1809.3 | 1684.5 | 1438.1 | 1336.0 | 1441.4 | 1667.3 | 1572.5 |
| 42.5° | 2207.3 | 2156.8 | 2049.1 | 2010.1 | 2004.2 | 1824.9 | 1524.0 | 1443.4 | 1564.6 | 1789.2 | 1649.1 |
| 45°   | 2395.3 | 2347.7 | 2254.9 | 2205.7 | 2227.5 | 1952.0 | 1610.2 | 1558.0 | 1691.4 | 1917.0 | 1728.1 |
| 47.5° | 2595.8 | 2521.1 | 2398.2 | 2413.1 | 2460.7 | 2072.2 | 1698.0 | 1681.2 | 1830.5 | 2060.0 | 1826.2 |
| 50°   | 2603.0 | 2545.9 | 2492.0 | 2580.9 | 2654.9 | 2182.9 | 1808.0 | 1810.3 | 2000.6 | 2240.0 | 1956.6 |
| 52.5° | 2452.1 | 2439.9 | 2525.4 | 2665.1 | 2771.8 | 2270.4 | 1933.2 | 1943.8 | 2218.2 | 2446.8 | 2100.0 |
| 55°   | 2399.2 | 2385.4 | 2484.1 | 2635.7 | 2787.7 | 2342.8 | 2068.9 | 2088.1 | 2481.5 | 2664.8 | 2239.7 |
| 57.5° | 2528.0 | 2497.3 | 2503.9 | 2621.8 | 2749.0 | 2422.0 | 2216.9 | 2255.6 | 2767.5 | 2855.4 | 2329.5 |
| 60°   | 2888.1 | 2822.3 | 2697.5 | 2694.5 | 2769.8 | 2540.9 | 2388.0 | 2435.2 | 3064.8 | 2946.5 | 2294.5 |
| 62.5° | 3393.1 | 3327.3 | 3093.5 | 2941.2 | 2930.0 | 2737.1 | 2598.1 | 2610.6 | 3236.5 | 2823.0 | 2080.8 |
| 65°   | 3939.7 | 3880.9 | 3619.7 | 3404.6 | 3300.9 | 3062.1 | 2842.2 | 2688.9 | 3180.4 | 2483.1 | 1706.9 |
| 67.5° | 4603.3 | 4540.2 | 4315.6 | 4117.1 | 4017.3 | 3586.6 | 3013.6 | 2613.9 | 2824.0 | 1923.6 | 1227.0 |
| 70°   | 5067.3 | 5002.9 | 4914.4 | 5075.2 | 5319.3 | 4343.3 | 3035.7 | 2309.1 | 2109.2 | 1278.6 | 738.5  |
| 72.5° | 4461.9 | 4431.8 | 4593.4 | 5270.8 | 6287.4 | 4802.4 | 2744.1 | 1681.2 | 1225.0 | 678.7  | 427.4  |
| 73°   | 4088.0 | 4081.4 | 4356.9 | 5133.7 | 6294.4 | 4731.7 | 2616.2 | 1562.6 | 1050.7 | 600.5  | 390.7  |
| 75°   | 1846.0 | 1899.2 | 2502.9 | 3921.2 | 5468.6 | 3899.1 | 1841.4 | 896.4  | 593.5  | 414.8  | 294.9  |
| 77.5° | 443.6  | 462.1  | 783.1  | 1862.2 | 3453.5 | 2323.6 | 834.3  | 443.3  | 379.5  | 293.0  | 215.3  |
| 80°   | 188.9  | 195.2  | 301.6  | 688.0  | 1626.0 | 935.7  | 384.5  | 296.9  | 262.6  | 204.4  | 150.9  |
| 82.5° | 105.0  | 111.6  | 171.1  | 312.1  | 656.3  | 319.1  | 234.5  | 206.8  | 172.7  | 123.2  | 98.1   |
| 85°   | 59.5   | 63.1   | 100.1  | 174.4  | 278.1  | 128.2  | 140.4  | 137.4  | 97.4   | 63.4   | 48.2   |
| 87.5° | 28.1   | 30.4   | 48.2   | 80.9   | 109.0  | 50.2   | 71.3   | 78.6   | 61.1   | 38.6   | 25.1   |
| 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):**

|       | 95°    | 105°   | 115°   | 125°   | 135°   | 145°   | 155°   | 165°   | 175°   | 180°   |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 | 1038.1 |
| 2.5°  | 1037.4 | 1043.4 | 1050.3 | 1054.0 | 1057.3 | 1061.2 | 1065.2 | 1065.2 | 1065.8 | 1066.2 |
| 5°    | 1030.2 | 1042.4 | 1053.3 | 1057.9 | 1058.9 | 1058.9 | 1057.9 | 1052.6 | 1048.0 | 1050.0 |
| 7.5°  | 1015.0 | 1032.8 | 1042.1 | 1040.4 | 1027.9 | 1013.3 | 1001.1 | 986.2  | 978.7  | 977.3  |
| 10°   | 993.2  | 1013.7 | 1015.3 | 998.8  | 967.8  | 936.7  | 910.9  | 885.8  | 873.9  | 871.0  |
| 12.5° | 969.1  | 987.9  | 977.3  | 943.3  | 893.4  | 848.2  | 815.5  | 790.1  | 778.8  | 775.9  |
| 15°   | 949.6  | 962.5  | 935.7  | 882.2  | 819.5  | 771.6  | 744.5  | 725.6  | 717.7  | 715.4  |
| 17.5° | 939.3  | 942.0  | 893.1  | 820.8  | 754.1  | 714.1  | 697.2  | 688.3  | 685.4  | 683.7  |
| 20°   | 944.3  | 925.8  | 852.5  | 763.6  | 700.5  | 672.5  | 668.5  | 666.2  | 665.5  | 664.5  |
| 22.5° | 969.1  | 920.9  | 815.2  | 709.5  | 653.6  | 641.4  | 644.7  | 644.4  | 643.7  | 643.1  |
| 25°   | 1013.3 | 925.1  | 778.8  | 657.9  | 614.3  | 611.7  | 617.6  | 617.6  | 615.0  | 615.0  |
| 27.5° | 1071.8 | 934.1  | 738.2  | 609.1  | 578.7  | 579.0  | 583.6  | 582.3  | 579.3  | 577.3  |
| 30°   | 1143.1 | 939.7  | 690.6  | 565.1  | 545.3  | 544.0  | 545.3  | 539.7  | 530.8  | 530.1  |
| 32.5° | 1216.1 | 932.7  | 635.5  | 526.2  | 510.0  | 507.0  | 506.0  | 498.1  | 487.8  | 484.9  |
| 35°   | 1282.2 | 907.3  | 579.3  | 495.1  | 476.3  | 469.7  | 474.3  | 471.7  | 462.4  | 460.1  |
| 37.5° | 1330.4 | 860.1  | 528.8  | 467.7  | 452.2  | 450.5  | 453.5  | 454.5  | 443.6  | 441.3  |
| 40°   | 1362.8 | 796.0  | 485.5  | 444.6  | 447.5  | 441.3  | 431.4  | 424.4  | 421.1  | 420.1  |
| 42.5° | 1388.9 | 729.3  | 449.2  | 433.7  | 448.5  | 430.4  | 408.9  | 397.7  | 403.6  | 406.3  |
| 45°   | 1418.9 | 664.2  | 418.8  | 420.1  | 443.6  | 417.8  | 393.4  | 382.5  | 384.8  | 385.4  |
| 47.5° | 1460.2 | 584.9  | 386.1  | 398.3  | 427.1  | 409.2  | 383.8  | 368.3  | 357.4  | 352.4  |
| 50°   | 1517.4 | 491.1  | 352.1  | 373.9  | 410.9  | 403.0  | 368.9  | 352.4  | 332.3  | 327.6  |
| 52.5° | 1557.0 | 403.6  | 324.0  | 353.4  | 396.3  | 390.4  | 357.0  | 335.6  | 314.4  | 310.5  |
| 55°   | 1535.5 | 335.2  | 299.6  | 330.6  | 377.2  | 374.9  | 347.1  | 318.4  | 301.9  | 298.6  |
| 57.5° | 1428.2 | 292.0  | 280.7  | 309.2  | 353.7  | 361.7  | 333.9  | 303.9  | 292.0  | 289.7  |
| 60°   | 1223.4 | 264.9  | 268.9  | 294.6  | 334.6  | 348.5  | 320.7  | 295.9  | 288.0  | 286.4  |
| 62.5° | 949.3  | 246.7  | 259.9  | 284.1  | 319.7  | 339.2  | 313.4  | 294.9  | 292.0  | 290.0  |
| 65°   | 680.1  | 232.2  | 250.4  | 273.5  | 306.2  | 330.6  | 310.8  | 293.6  | 294.3  | 292.6  |
| 67.5° | 462.1  | 219.3  | 238.8  | 261.6  | 293.0  | 323.0  | 307.2  | 289.0  | 297.3  | 295.3  |
| 70°   | 323.4  | 206.8  | 225.3  | 246.4  | 276.5  | 312.5  | 300.6  | 282.1  | 281.4  | 273.5  |
| 72.5° | 252.3  | 190.2  | 206.8  | 225.3  | 255.3  | 297.6  | 287.4  | 266.5  | 255.6  | 247.4  |
| 73°   | 240.8  | 186.3  | 202.1  | 220.6  | 250.7  | 294.0  | 283.7  | 262.3  | 250.0  | 242.4  |
| 75°   | 199.2  | 169.1  | 183.6  | 200.2  | 230.9  | 276.8  | 265.9  | 242.8  | 227.2  | 222.6  |
| 77.5° | 156.6  | 144.7  | 158.5  | 173.4  | 203.5  | 251.7  | 239.5  | 217.3  | 208.7  | 204.8  |
| 80°   | 115.9  | 119.9  | 132.1  | 145.3  | 176.4  | 224.9  | 214.0  | 191.9  | 230.2  | 220.6  |
| 82.5° | 81.6   | 90.8   | 102.1  | 114.0  | 148.0  | 198.8  | 185.6  | 162.8  | 168.4  | 140.0  |
| 85°   | 48.2   | 59.5   | 70.0   | 80.3   | 106.7  | 164.8  | 153.3  | 129.8  | 106.4  | 101.4  |
| 87.5° | 28.1   | 33.0   | 36.0   | 46.6   | 73.3   | 124.2  | 108.0  | 96.1   | 55.2   | 37.3   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |

(END OF REPORT)