

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: P192319

Luminaire Tested: **GLEON-AF-01-LED-E1-T4FT-7050-800**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192319  
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-7050-800  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 5000K, 800mA 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: 5066 lumens  
Efficiency: N/A  
Efficacy: 115.1 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): 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

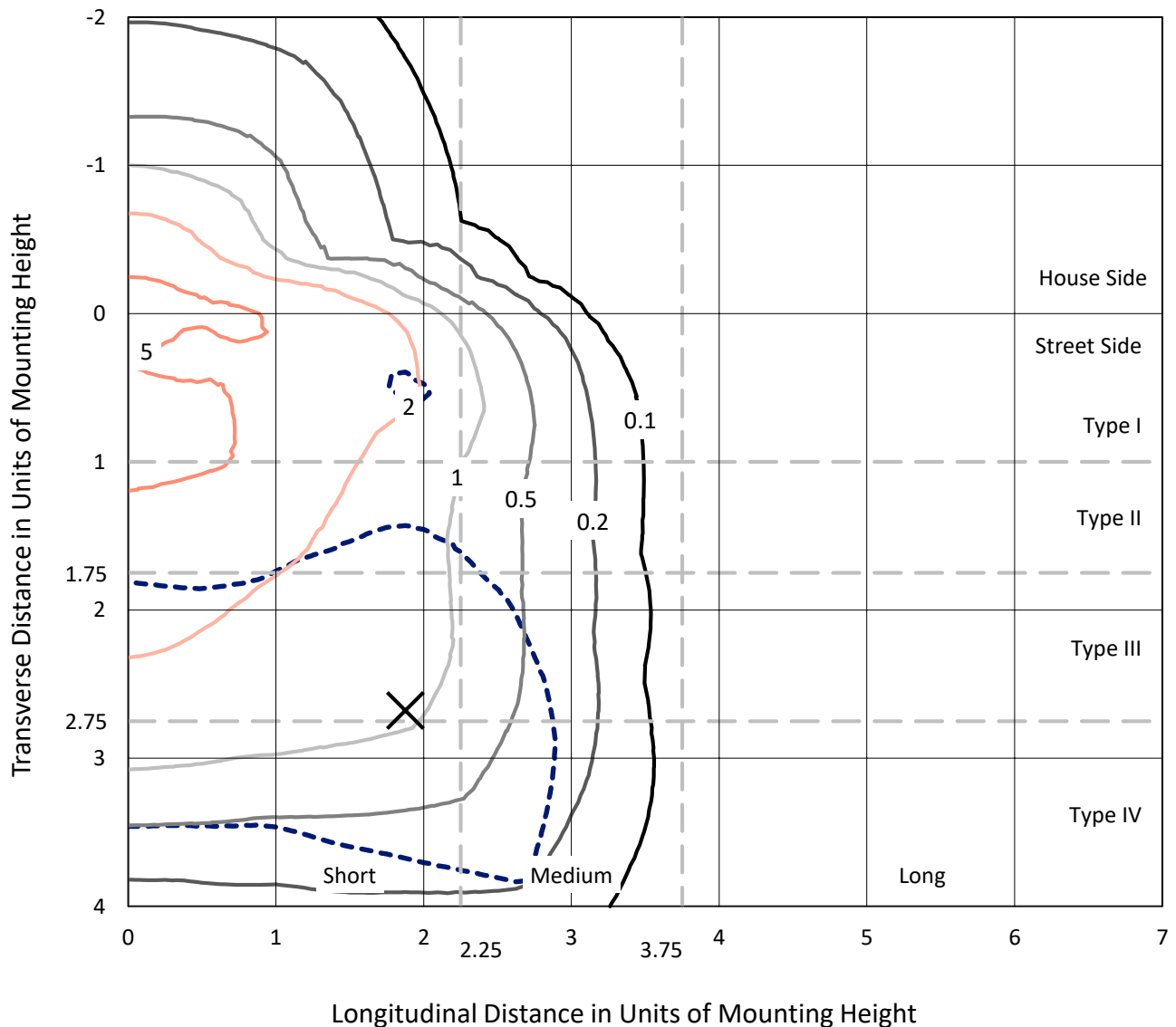


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

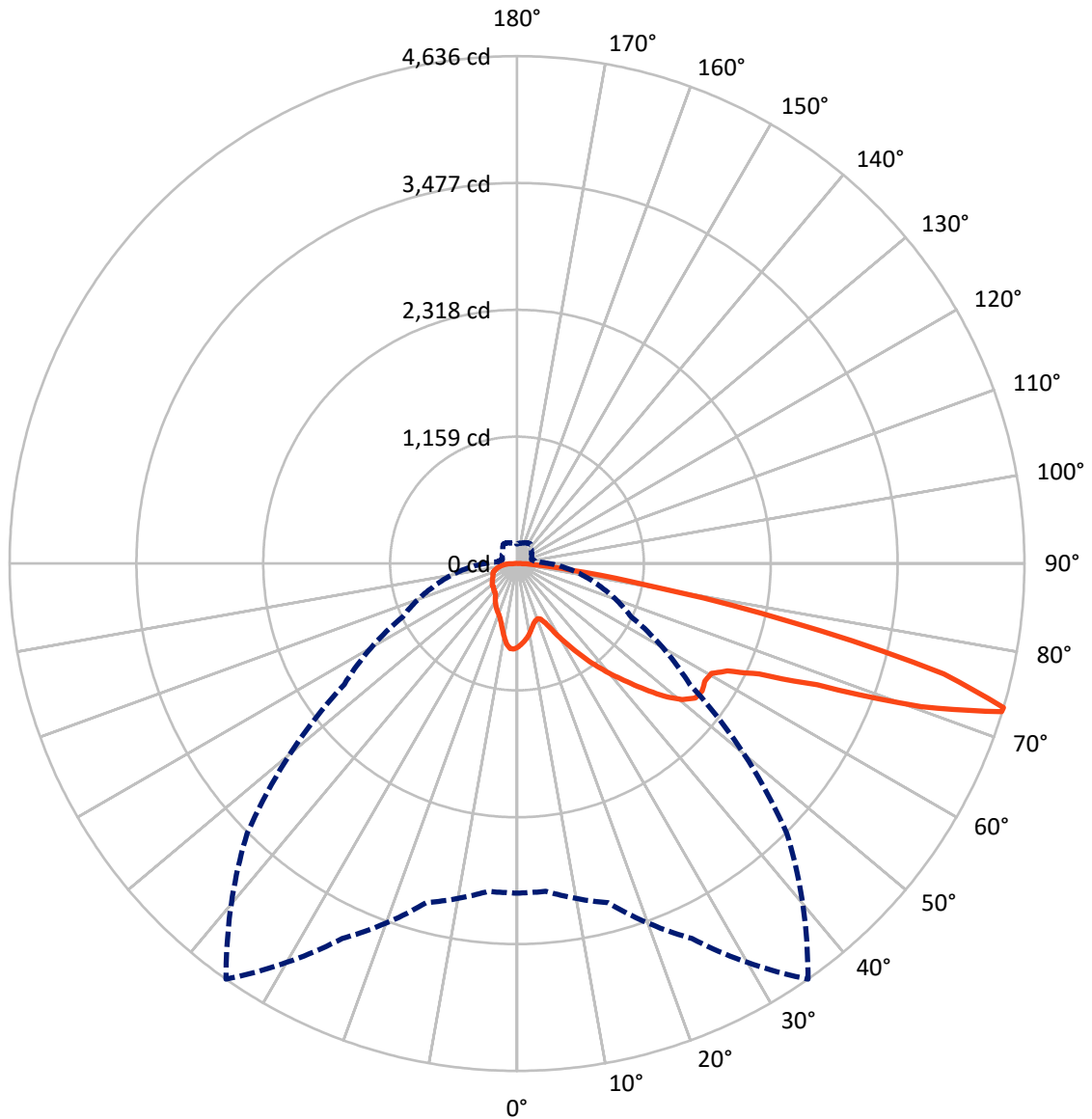


Based on 10 foot mounting height. Maximum calculated value = 7.6 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral    - - - Horizontal Cone Through 73-Deg Vertical

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 966.2    | 0.0    | 966.2  |
|                    | % Fixture | 19.1     | 0.0    | 19.1   |
| <b>Street Side</b> | Lumens    | 4099.8   | 0.0    | 4099.8 |
|                    | % Fixture | 80.9     | 0.0    | 80.9   |
| <b>Total</b>       | Lumens    | 5066.0   | 0.0    | 5066.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**Coefficient of Utilization**

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 69.2   | 1.4       |
| 10°-20°   | 172.8  | 3.4       |
| 20°-30°   | 279.3  | 5.5       |
| 30°-40°   | 468.3  | 9.2       |
| 40°-50°   | 721.9  | 14.3      |
| 50°-60°   | 968.5  | 19.1      |
| 60°-70°   | 1290.3 | 25.5      |
| 70°-80°   | 984.1  | 19.4      |
| 80°-90°   | 111.5  | 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°    | 5066.0 | 100.0     |
| 0°-180°   | 5066.0 | 100.0     |



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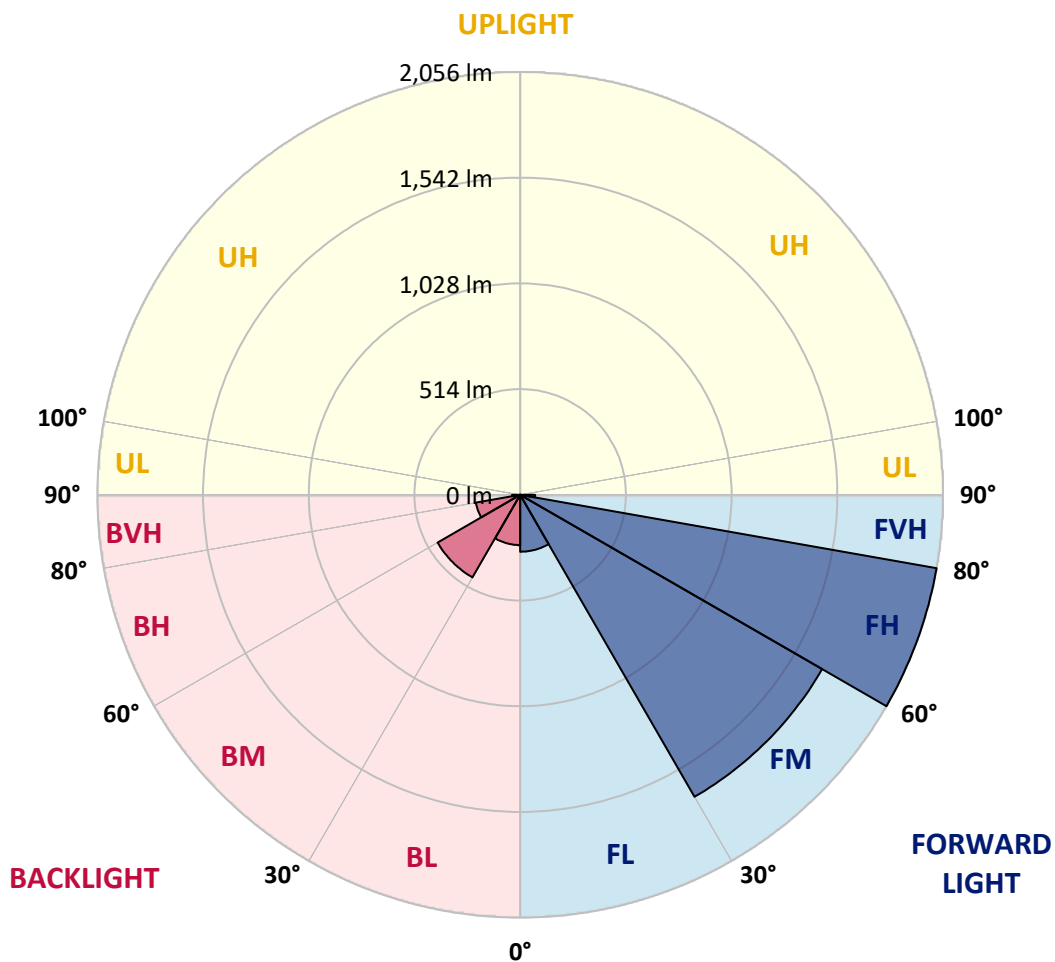
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone           | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|----------------|--------|-----------|-------------------------|------|---------|
|                |        |           | B                       | U    | G       |
| FL (0°-30°)    | 276.8  | 5.5       |                         |      |         |
| FM (30°-60°)   | 1695.1 | 33.5      |                         |      |         |
| FH (60°-80°)   | 2055.8 | 40.6      |                         |      | G2/5000 |
| FVH (80°-90°)  | 72.1   | 1.4       |                         |      | G1/100  |
| BL (0°-30°)    | 244.5  | 4.8       | B1/500                  |      |         |
| BM (30°-60°)   | 463.7  | 9.2       | B1/1000                 |      |         |
| BH (60°-80°)   | 218.6  | 4.3       | B1/500                  |      | G1/500  |
| BVH (80°-90°)  | 39.4   | 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°    | 764.6  | 764.6  | 764.6  | 764.6  | 764.6  | 764.6  | 764.6  | 764.6  | 764.6  | 764.6  | 764.6  |
| 2.5°  | 734.5  | 735.9  | 734.2  | 736.4  | 740.0  | 743.9  | 746.6  | 750.5  | 754.9  | 761.0  | 762.4  |
| 5°    | 699.9  | 702.1  | 702.1  | 706.0  | 713.0  | 719.4  | 725.2  | 731.5  | 740.8  | 751.2  | 755.4  |
| 7.5°  | 662.0  | 663.2  | 665.4  | 671.2  | 681.4  | 690.4  | 698.7  | 708.9  | 721.6  | 735.4  | 742.7  |
| 10°   | 616.2  | 617.9  | 621.3  | 629.6  | 643.5  | 655.9  | 667.8  | 681.9  | 698.0  | 715.2  | 724.5  |
| 12.5° | 583.9  | 583.4  | 584.8  | 590.9  | 603.1  | 618.2  | 635.4  | 653.4  | 673.1  | 693.3  | 704.5  |
| 15°   | 572.9  | 570.2  | 564.6  | 563.2  | 569.8  | 584.8  | 604.8  | 626.9  | 650.5  | 674.8  | 688.7  |
| 17.5° | 579.7  | 575.1  | 559.8  | 548.6  | 547.6  | 559.0  | 580.2  | 605.0  | 632.3  | 662.0  | 679.2  |
| 20°   | 622.5  | 611.6  | 573.9  | 547.9  | 538.9  | 544.5  | 562.9  | 589.2  | 621.3  | 660.7  | 682.9  |
| 22.5° | 725.0  | 708.9  | 628.9  | 580.5  | 550.0  | 543.2  | 557.1  | 585.1  | 622.5  | 675.8  | 704.0  |
| 25°   | 874.1  | 851.2  | 723.3  | 661.7  | 598.9  | 562.7  | 565.9  | 594.6  | 639.8  | 710.9  | 744.9  |
| 27.5° | 991.8  | 977.0  | 846.6  | 776.3  | 688.0  | 615.2  | 594.3  | 618.4  | 675.1  | 768.3  | 803.1  |
| 30°   | 1061.9 | 1052.9 | 978.5  | 906.2  | 801.6  | 698.9  | 648.8  | 663.2  | 730.3  | 847.8  | 876.5  |
| 32.5° | 1143.2 | 1137.8 | 1101.3 | 1034.9 | 924.2  | 808.9  | 735.2  | 730.1  | 804.3  | 943.4  | 956.6  |
| 35°   | 1227.3 | 1225.6 | 1204.2 | 1156.5 | 1055.8 | 953.9  | 849.8  | 815.2  | 884.8  | 1042.7 | 1034.4 |
| 37.5° | 1305.7 | 1302.7 | 1290.3 | 1262.6 | 1193.5 | 1109.6 | 966.5  | 902.6  | 971.6  | 1137.6 | 1100.8 |
| 40°   | 1449.9 | 1427.1 | 1384.5 | 1363.6 | 1332.7 | 1240.7 | 1059.2 | 984.1  | 1061.7 | 1228.1 | 1158.2 |
| 42.5° | 1625.8 | 1588.6 | 1509.3 | 1480.6 | 1476.2 | 1344.1 | 1122.5 | 1063.1 | 1152.4 | 1317.8 | 1214.7 |
| 45°   | 1764.2 | 1729.2 | 1660.8 | 1624.6 | 1640.7 | 1437.8 | 1186.0 | 1147.5 | 1245.8 | 1412.0 | 1272.8 |
| 47.5° | 1911.9 | 1856.9 | 1766.4 | 1777.4 | 1812.4 | 1526.3 | 1250.7 | 1238.3 | 1348.2 | 1517.3 | 1345.1 |
| 50°   | 1917.3 | 1875.2 | 1835.5 | 1901.0 | 1955.5 | 1607.8 | 1331.7 | 1333.4 | 1473.5 | 1649.9 | 1441.2 |
| 52.5° | 1806.1 | 1797.1 | 1860.1 | 1963.0 | 2041.6 | 1672.3 | 1423.9 | 1431.7 | 1633.8 | 1802.2 | 1546.7 |
| 55°   | 1767.2 | 1756.9 | 1829.7 | 1941.3 | 2053.3 | 1725.6 | 1523.9 | 1538.0 | 1827.7 | 1962.8 | 1649.7 |
| 57.5° | 1862.0 | 1839.4 | 1844.3 | 1931.1 | 2024.8 | 1783.9 | 1632.9 | 1661.3 | 2038.4 | 2103.1 | 1715.8 |
| 60°   | 2127.2 | 2078.8 | 1986.8 | 1984.6 | 2040.1 | 1871.5 | 1758.9 | 1793.7 | 2257.4 | 2170.3 | 1690.0 |
| 62.5° | 2499.2 | 2450.8 | 2278.5 | 2166.4 | 2158.1 | 2016.0 | 1913.6 | 1922.9 | 2383.9 | 2079.3 | 1532.6 |
| 65°   | 2901.8 | 2858.5 | 2666.1 | 2507.7 | 2431.3 | 2255.4 | 2093.4 | 1980.5 | 2342.5 | 1828.9 | 1257.3 |
| 67.5° | 3390.5 | 3344.1 | 3178.6 | 3032.4 | 2959.0 | 2641.7 | 2219.7 | 1925.3 | 2080.0 | 1416.8 | 903.8  |
| 70°   | 3732.3 | 3684.9 | 3619.7 | 3738.2 | 3918.0 | 3199.1 | 2236.0 | 1700.7 | 1553.6 | 941.7  | 544.0  |
| 72.5° | 3286.4 | 3264.3 | 3383.2 | 3882.2 | 4631.0 | 3537.2 | 2021.1 | 1238.3 | 902.3  | 499.9  | 314.8  |
| 73°   | 3011.0 | 3006.2 | 3209.1 | 3781.2 | 4636.1 | 3485.2 | 1927.0 | 1150.9 | 773.9  | 442.3  | 287.8  |
| 75°   | 1359.7 | 1398.8 | 1843.5 | 2888.2 | 4027.9 | 2871.9 | 1356.3 | 660.3  | 437.2  | 305.6  | 217.2  |
| 77.5° | 326.7  | 340.3  | 576.8  | 1371.6 | 2543.7 | 1711.4 | 614.5  | 326.5  | 279.5  | 215.8  | 158.6  |
| 80°   | 139.2  | 143.8  | 222.1  | 506.7  | 1197.6 | 689.2  | 283.2  | 218.7  | 193.4  | 150.6  | 111.2  |
| 82.5° | 77.4   | 82.2   | 126.0  | 229.9  | 483.4  | 235.0  | 172.7  | 152.3  | 127.2  | 90.7   | 72.3   |
| 85°   | 43.8   | 46.5   | 73.7   | 128.4  | 204.8  | 94.4   | 103.4  | 101.2  | 71.8   | 46.7   | 35.5   |
| 87.5° | 20.7   | 22.4   | 35.5   | 59.6   | 80.3   | 37.0   | 52.5   | 57.9   | 45.0   | 28.5   | 18.5   |
| 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):**

|       | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 764.6  | 764.6 | 764.6 | 764.6 | 764.6 | 764.6 | 764.6 | 764.6 | 764.6 | 764.6 |
| 2.5°  | 764.1  | 768.5 | 773.6 | 776.3 | 778.7 | 781.6 | 784.6 | 784.6 | 785.1 | 785.3 |
| 5°    | 758.8  | 767.8 | 775.8 | 779.2 | 779.9 | 779.9 | 779.2 | 775.3 | 771.9 | 773.4 |
| 7.5°  | 747.6  | 760.7 | 767.5 | 766.3 | 757.1 | 746.4 | 737.4 | 726.4 | 720.8 | 719.9 |
| 10°   | 731.5  | 746.6 | 747.8 | 735.7 | 712.8 | 689.9 | 671.0 | 652.5 | 643.7 | 641.5 |
| 12.5° | 713.8  | 727.6 | 719.9 | 694.8 | 658.1 | 624.7 | 600.6 | 581.9 | 573.6 | 571.5 |
| 15°   | 699.4  | 708.9 | 689.2 | 649.8 | 603.6 | 568.3 | 548.3 | 534.5 | 528.6 | 526.9 |
| 17.5° | 691.9  | 693.8 | 657.8 | 604.5 | 555.4 | 526.0 | 513.6 | 507.0 | 504.8 | 503.6 |
| 20°   | 695.5  | 681.9 | 627.9 | 562.5 | 516.0 | 495.3 | 492.4 | 490.7 | 490.2 | 489.5 |
| 22.5° | 713.8  | 678.3 | 600.4 | 522.6 | 481.4 | 472.4 | 474.9 | 474.6 | 474.1 | 473.7 |
| 25°   | 746.4  | 681.4 | 573.6 | 484.6 | 452.5 | 450.5 | 454.9 | 454.9 | 453.0 | 453.0 |
| 27.5° | 789.4  | 688.0 | 543.7 | 448.6 | 426.2 | 426.5 | 429.9 | 428.9 | 426.7 | 425.2 |
| 30°   | 842.0  | 692.1 | 508.7 | 416.2 | 401.6 | 400.7 | 401.6 | 397.5 | 390.9 | 390.5 |
| 32.5° | 895.7  | 687.0 | 468.1 | 387.5 | 375.6 | 373.4 | 372.7 | 366.9 | 359.3 | 357.1 |
| 35°   | 944.4  | 668.3 | 426.7 | 364.7 | 350.8 | 345.9 | 349.3 | 347.4 | 340.6 | 338.9 |
| 37.5° | 979.9  | 633.5 | 389.5 | 344.5 | 333.0 | 331.8 | 334.0 | 334.7 | 326.7 | 325.0 |
| 40°   | 1003.8 | 586.3 | 357.6 | 327.4 | 329.6 | 325.0 | 317.7 | 312.6 | 310.2 | 309.4 |
| 42.5° | 1023.0 | 537.2 | 330.9 | 319.4 | 330.4 | 317.0 | 301.2 | 292.9 | 297.3 | 299.2 |
| 45°   | 1045.1 | 489.2 | 308.5 | 309.4 | 326.7 | 307.7 | 289.7 | 281.7 | 283.4 | 283.9 |
| 47.5° | 1075.5 | 430.8 | 284.4 | 293.4 | 314.6 | 301.4 | 282.7 | 271.3 | 263.2 | 259.6 |
| 50°   | 1117.6 | 361.8 | 259.3 | 275.4 | 302.6 | 296.8 | 271.7 | 259.6 | 244.7 | 241.3 |
| 52.5° | 1146.8 | 297.3 | 238.7 | 260.3 | 291.9 | 287.6 | 263.0 | 247.2 | 231.6 | 228.7 |
| 55°   | 1131.0 | 246.9 | 220.7 | 243.5 | 277.8 | 276.1 | 255.7 | 234.5 | 222.4 | 219.9 |
| 57.5° | 1051.9 | 215.1 | 206.8 | 227.7 | 260.5 | 266.4 | 246.0 | 223.8 | 215.1 | 213.4 |
| 60°   | 901.1  | 195.1 | 198.0 | 217.0 | 246.4 | 256.7 | 236.2 | 218.0 | 212.1 | 210.9 |
| 62.5° | 699.2  | 181.7 | 191.5 | 209.2 | 235.5 | 249.8 | 230.9 | 217.2 | 215.1 | 213.6 |
| 65°   | 500.9  | 171.0 | 184.4 | 201.4 | 225.5 | 243.5 | 228.9 | 216.3 | 216.8 | 215.5 |
| 67.5° | 340.3  | 161.5 | 175.9 | 192.7 | 215.8 | 237.9 | 226.2 | 212.9 | 218.9 | 217.5 |
| 70°   | 238.2  | 152.3 | 165.9 | 181.5 | 203.6 | 230.1 | 221.4 | 207.8 | 207.3 | 201.4 |
| 72.5° | 185.9  | 140.1 | 152.3 | 165.9 | 188.1 | 219.2 | 211.7 | 196.3 | 188.3 | 182.2 |
| 73°   | 177.3  | 137.2 | 148.9 | 162.5 | 184.6 | 216.5 | 209.0 | 193.2 | 184.2 | 178.6 |
| 75°   | 146.7  | 124.6 | 135.3 | 147.4 | 170.0 | 203.9 | 195.8 | 178.8 | 167.4 | 164.0 |
| 77.5° | 115.3  | 106.6 | 116.8 | 127.7 | 149.9 | 185.4 | 176.4 | 160.1 | 153.8 | 150.8 |
| 80°   | 85.4   | 88.3  | 97.3  | 107.0 | 129.9 | 165.7 | 157.6 | 141.3 | 169.6 | 162.5 |
| 82.5° | 60.1   | 66.9  | 75.2  | 83.9  | 109.0 | 146.5 | 136.7 | 119.9 | 124.1 | 103.1 |
| 85°   | 35.5   | 43.8  | 51.6  | 59.1  | 78.6  | 121.4 | 112.9 | 95.6  | 78.3  | 74.7  |
| 87.5° | 20.7   | 24.3  | 26.5  | 34.3  | 54.0  | 91.5  | 79.6  | 70.8  | 40.6  | 27.5  |
| 90°   | 0.0    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |

(END OF REPORT)