

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: P193689

Luminaire Tested: **GLEON-AF-01-LED-E1-SL3-8030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P193689  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P24288)  
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-SL3-8030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 80 CRI, 3000K, 615mA LIGHTSQUARE WITH 16 LEDS EACH AND TYPE III SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 3350 lumens  
Efficiency: N/A  
Efficacy: 98.5 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type III - Medium - Non-Cutoff  
BUG Rating: B1 - U0 - G1

Input Watts (W): 34  
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

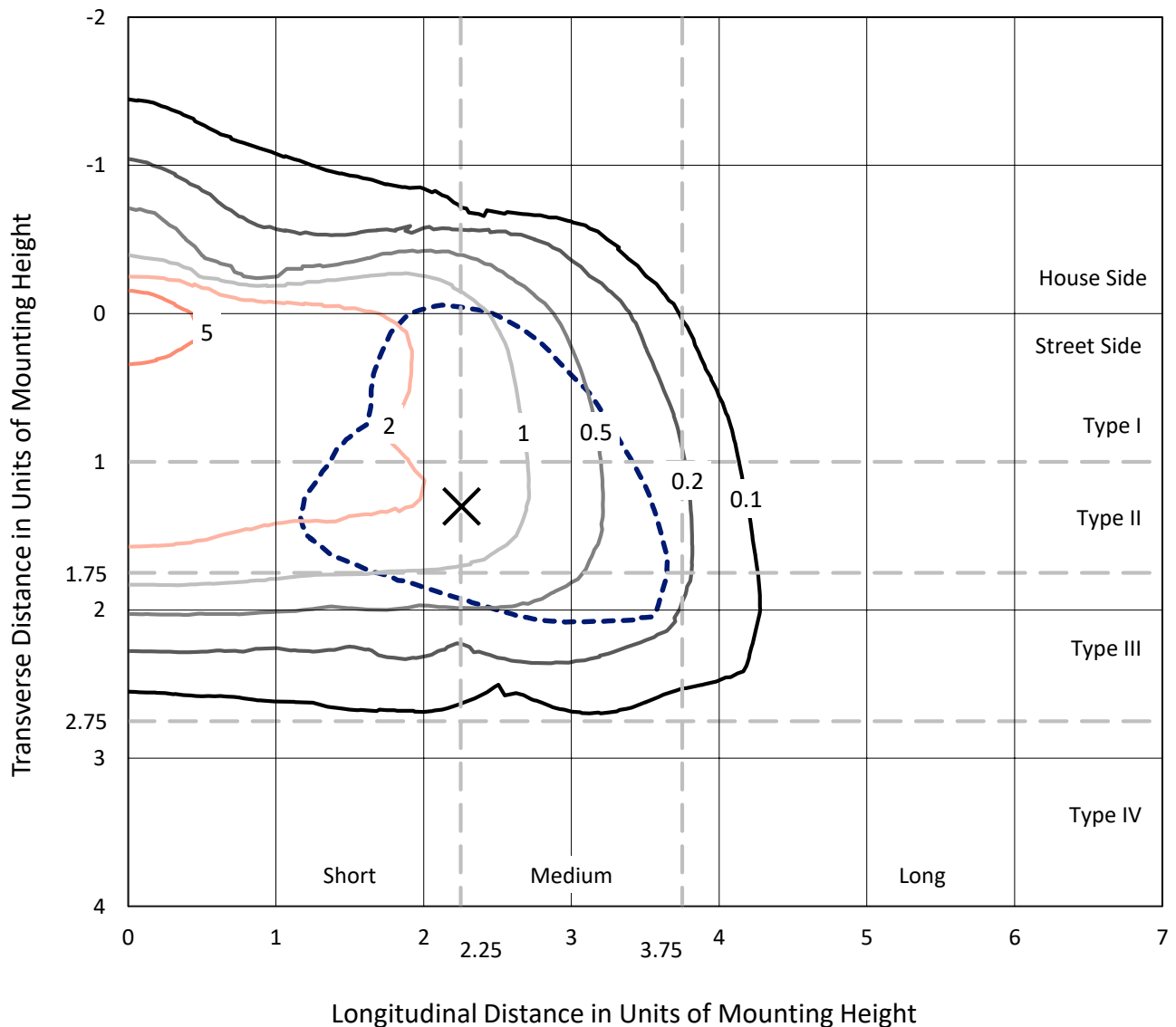


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

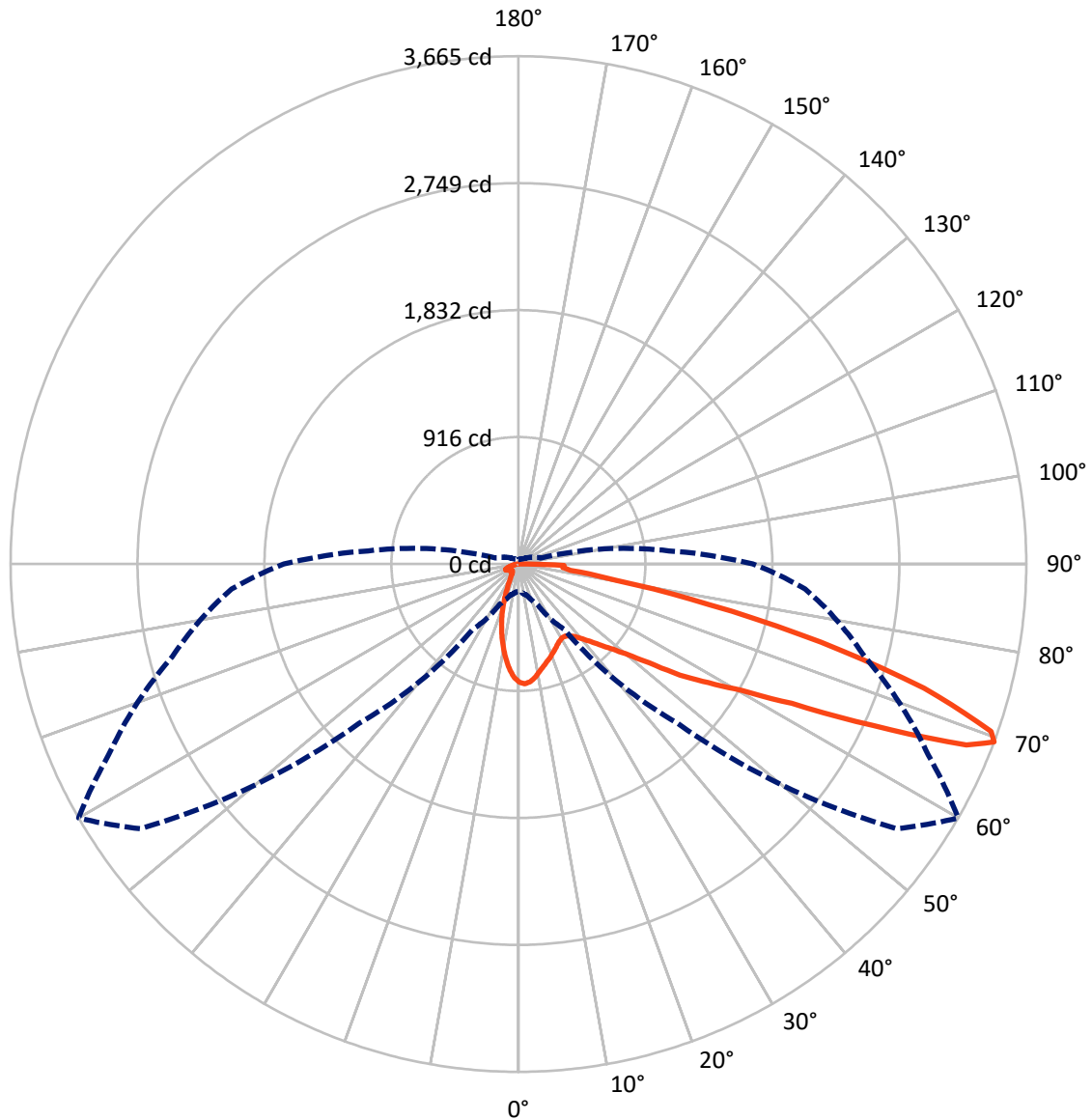


Based on 10 foot mounting height. Maximum calculated value = 8.5 fc  
 Type III - Medium - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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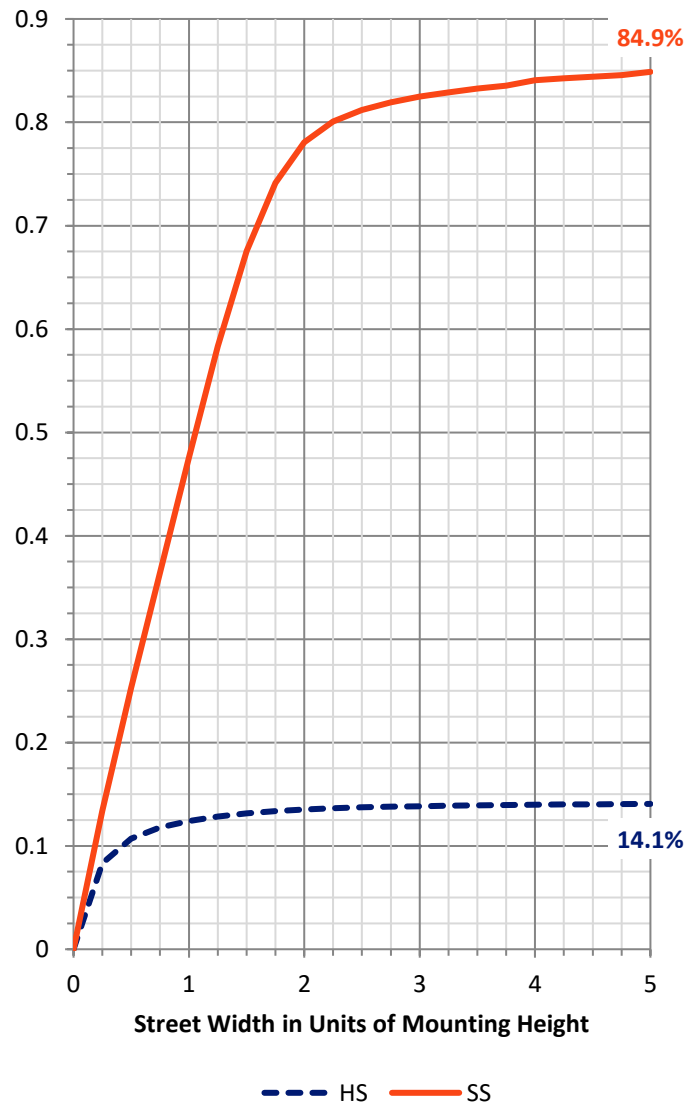
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 476.6    | 0.0    | 476.6  |
|                    | % Fixture | 14.2     | 0.0    | 14.2   |
| <b>Street Side</b> | Lumens    | 2873.4   | 0.0    | 2873.4 |
|                    | % Fixture | 85.8     | 0.0    | 85.8   |
| <b>Total</b>       | Lumens    | 3350.0   | 0.0    | 3350.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 72.2   | 2.2       |
| 10°-20°   | 153.8  | 4.6       |
| 20°-30°   | 195.9  | 5.8       |
| 30°-40°   | 269.4  | 8.0       |
| 40°-50°   | 437.1  | 13.0      |
| 50°-60°   | 701.0  | 20.9      |
| 60°-70°   | 932.9  | 27.8      |
| 70°-80°   | 503.7  | 15.0      |
| 80°-90°   | 84.1   | 2.5       |
| 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°    | 3350.0 | 100.0     |
| 0°-180°   | 3350.0 | 100.0     |

**Coefficient of Utilization**



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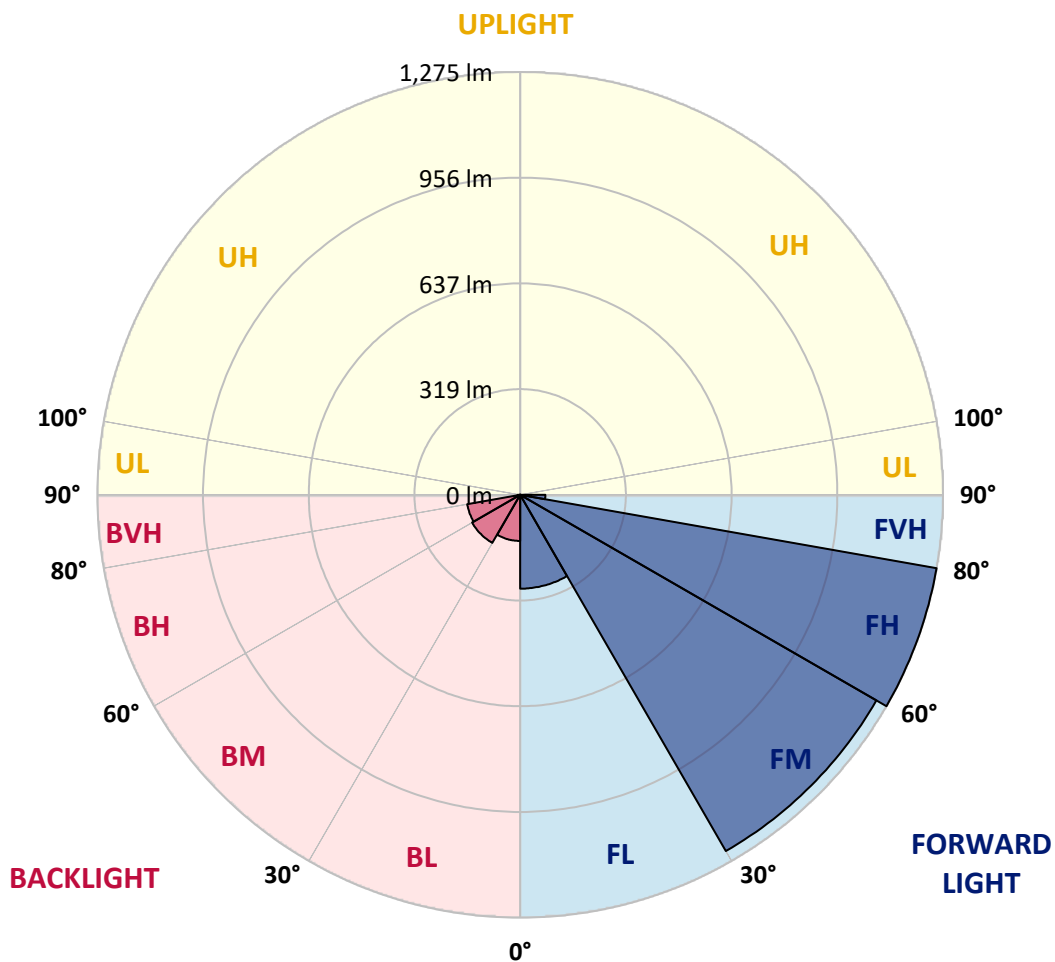
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 282.9  | 8.4       |                         |      |         |
| FM   | (30°-60°)   | 1240.0 | 37.0      |                         |      |         |
| FH   | (60°-80°)   | 1274.6 | 38.0      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 76.0   | 2.3       |                         |      | G1/100  |
| BL   | (0°-30°)    | 139.0  | 4.2       | B1/500                  |      |         |
| BM   | (30°-60°)   | 167.4  | 5.0       | B0/220                  |      |         |
| BH   | (60°-80°)   | 162.0  | 4.8       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 8.1    | 0.2       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 60°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 853.6  | 853.6  | 853.6  | 853.6  | 853.6  | 853.6  | 853.6  | 853.6  | 853.6  | 853.6  | 853.6  |
| 2.5°  | 871.1  | 873.0  | 872.2  | 871.8  | 873.2  | 870.9  | 866.3  | 864.8  | 862.5  | 857.2  | 848.1  |
| 5°    | 838.4  | 844.2  | 843.9  | 848.3  | 855.6  | 857.5  | 855.4  | 855.7  | 851.5  | 844.9  | 829.8  |
| 7.5°  | 781.9  | 784.4  | 785.7  | 795.2  | 808.5  | 819.2  | 828.2  | 831.1  | 829.2  | 823.5  | 804.1  |
| 10°   | 723.7  | 725.6  | 728.7  | 739.9  | 756.7  | 771.4  | 788.6  | 798.4  | 802.7  | 801.7  | 780.0  |
| 12.5° | 673.7  | 675.6  | 679.7  | 692.3  | 712.4  | 730.5  | 755.4  | 767.7  | 777.7  | 783.7  | 760.4  |
| 15°   | 628.9  | 633.1  | 636.9  | 651.5  | 674.0  | 697.8  | 726.0  | 741.5  | 757.0  | 770.5  | 743.1  |
| 17.5° | 593.9  | 598.1  | 600.4  | 613.6  | 637.6  | 666.7  | 699.7  | 718.0  | 737.4  | 759.4  | 726.0  |
| 20°   | 573.7  | 575.6  | 574.6  | 582.1  | 603.6  | 634.5  | 673.7  | 694.9  | 718.3  | 749.1  | 708.8  |
| 22.5° | 568.0  | 568.2  | 564.6  | 563.8  | 577.7  | 603.8  | 645.8  | 671.6  | 700.4  | 742.3  | 694.1  |
| 25°   | 581.8  | 581.3  | 571.6  | 563.6  | 565.1  | 580.3  | 619.0  | 648.9  | 685.3  | 740.8  | 682.7  |
| 27.5° | 612.3  | 613.8  | 599.4  | 584.5  | 569.8  | 569.3  | 598.6  | 630.1  | 673.0  | 747.5  | 677.9  |
| 30°   | 655.2  | 657.7  | 642.3  | 623.4  | 595.7  | 572.9  | 590.7  | 619.0  | 665.4  | 761.2  | 677.1  |
| 32.5° | 702.2  | 704.8  | 693.1  | 673.2  | 636.9  | 594.9  | 596.2  | 620.0  | 665.1  | 780.5  | 682.6  |
| 35°   | 752.2  | 755.1  | 749.1  | 732.3  | 692.0  | 635.5  | 617.2  | 635.7  | 675.6  | 809.9  | 697.3  |
| 37.5° | 808.0  | 812.5  | 814.1  | 798.1  | 755.1  | 689.1  | 651.7  | 665.4  | 699.4  | 850.9  | 724.3  |
| 40°   | 888.4  | 894.7  | 894.2  | 871.3  | 827.4  | 761.4  | 704.9  | 708.5  | 736.5  | 905.6  | 767.5  |
| 42.5° | 1042.5 | 1043.8 | 1003.5 | 953.5  | 907.0  | 837.4  | 767.7  | 764.8  | 787.6  | 974.8  | 831.1  |
| 45°   | 1238.5 | 1233.1 | 1143.5 | 1046.9 | 990.2  | 924.8  | 849.4  | 835.2  | 852.5  | 1059.3 | 910.8  |
| 47.5° | 1401.1 | 1388.8 | 1275.5 | 1142.2 | 1078.2 | 1019.8 | 945.4  | 920.5  | 930.0  | 1155.1 | 1013.7 |
| 50°   | 1457.6 | 1448.3 | 1354.5 | 1221.5 | 1161.6 | 1135.7 | 1063.5 | 1028.2 | 1030.8 | 1269.4 | 1134.2 |
| 52.5° | 1445.4 | 1444.1 | 1381.5 | 1273.7 | 1239.6 | 1257.4 | 1230.8 | 1183.1 | 1157.9 | 1396.2 | 1264.3 |
| 55°   | 1416.8 | 1419.5 | 1396.9 | 1334.6 | 1328.8 | 1374.9 | 1449.5 | 1414.2 | 1335.7 | 1524.2 | 1398.8 |
| 57.5° | 1317.3 | 1324.4 | 1374.2 | 1411.1 | 1472.3 | 1540.9 | 1625.5 | 1615.5 | 1527.1 | 1662.6 | 1558.7 |
| 60°   | 1061.3 | 1077.8 | 1211.4 | 1396.2 | 1620.0 | 1834.6 | 1872.5 | 1849.2 | 1724.6 | 1834.3 | 1769.9 |
| 62.5° | 743.6  | 760.7  | 919.7  | 1208.8 | 1595.8 | 2166.4 | 2313.9 | 2213.5 | 2008.1 | 2087.2 | 2043.2 |
| 65°   | 398.1  | 406.3  | 527.7  | 838.7  | 1347.2 | 2234.8 | 2959.1 | 2806.2 | 2457.0 | 2399.1 | 2277.1 |
| 67.5° | 219.6  | 224.1  | 270.6  | 423.5  | 862.9  | 1968.0 | 3370.2 | 3485.7 | 3018.1 | 2606.7 | 2234.5 |
| 69°   | 198.6  | 202.8  | 233.2  | 320.7  | 577.4  | 1627.2 | 3330.1 | 3664.9 | 3264.0 | 2586.1 | 2077.2 |
| 70°   | 194.2  | 198.1  | 225.4  | 295.7  | 467.4  | 1341.2 | 3195.6 | 3619.1 | 3322.6 | 2512.5 | 1940.0 |
| 72.5° | 174.8  | 179.0  | 205.5  | 265.6  | 399.4  | 668.7  | 2531.3 | 3060.0 | 3016.6 | 2178.5 | 1471.5 |
| 75°   | 163.0  | 166.8  | 211.8  | 260.1  | 382.4  | 423.2  | 1668.7 | 2255.2 | 2217.5 | 1523.9 | 793.4  |
| 77.5° | 69.7   | 69.4   | 98.2   | 220.1  | 388.1  | 409.7  | 896.7  | 1408.9 | 1285.4 | 651.3  | 227.9  |
| 80°   | 46.6   | 45.8   | 46.6   | 64.7   | 355.9  | 412.0  | 469.8  | 715.1  | 540.2  | 166.0  | 112.3  |
| 82.5° | 40.1   | 39.5   | 40.9   | 39.5   | 125.1  | 470.3  | 399.4  | 380.3  | 256.8  | 94.3   | 55.7   |
| 85°   | 27.0   | 25.9   | 35.3   | 35.4   | 59.1   | 417.8  | 449.9  | 321.2  | 207.8  | 56.0   | 27.5   |
| 87.5° | 12.9   | 12.6   | 20.6   | 25.1   | 34.6   | 169.8  | 504.7  | 329.2  | 209.6  | 28.6   | 13.1   |
| 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):**

|       | 90°    | 95°    | 105°  | 115°  | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 853.6  | 853.6  | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 | 853.6 |
| 2.5°  | 845.4  | 838.7  | 832.3 | 824.5 | 816.4 | 807.3 | 802.8 | 798.3 | 797.2 | 795.9 | 791.3 |
| 5°    | 822.1  | 812.7  | 796.5 | 778.7 | 759.9 | 741.6 | 727.7 | 719.0 | 712.4 | 709.0 | 703.0 |
| 7.5°  | 792.0  | 778.2  | 749.9 | 719.2 | 687.6 | 658.8 | 633.9 | 618.2 | 603.3 | 596.3 | 588.4 |
| 10°   | 763.3  | 742.8  | 698.8 | 653.5 | 608.1 | 564.6 | 523.7 | 494.7 | 469.0 | 454.6 | 444.4 |
| 12.5° | 738.7  | 710.6  | 649.6 | 588.2 | 526.1 | 464.1 | 402.8 | 354.6 | 314.3 | 293.1 | 282.2 |
| 15°   | 714.8  | 680.8  | 602.8 | 525.0 | 445.2 | 360.9 | 280.3 | 225.6 | 192.2 | 179.0 | 174.4 |
| 17.5° | 693.1  | 649.6  | 555.9 | 461.2 | 361.7 | 259.7 | 188.4 | 158.3 | 145.5 | 141.1 | 139.7 |
| 20°   | 669.6  | 618.0  | 507.2 | 394.5 | 274.6 | 181.6 | 147.1 | 133.8 | 128.7 | 127.4 | 126.7 |
| 22.5° | 647.0  | 586.9  | 460.6 | 323.2 | 197.3 | 140.1 | 126.4 | 120.9 | 120.1 | 121.2 | 121.2 |
| 25°   | 627.7  | 559.1  | 410.2 | 248.6 | 144.8 | 118.0 | 113.1 | 111.8 | 114.9 | 119.1 | 119.9 |
| 27.5° | 613.3  | 536.3  | 356.7 | 183.5 | 115.4 | 102.6 | 102.4 | 104.5 | 112.1 | 120.2 | 121.9 |
| 30°   | 603.4  | 514.6  | 299.4 | 132.4 | 96.8  | 90.3  | 92.9  | 97.4  | 108.6 | 120.1 | 123.1 |
| 32.5° | 598.4  | 498.6  | 239.7 | 102.4 | 82.9  | 79.3  | 83.7  | 89.2  | 100.2 | 110.9 | 114.9 |
| 35°   | 602.3  | 486.8  | 183.3 | 85.4  | 73.1  | 70.4  | 74.9  | 80.3  | 86.7  | 91.3  | 94.3  |
| 37.5° | 616.9  | 482.1  | 138.4 | 76.5  | 66.5  | 63.9  | 67.5  | 70.6  | 73.1  | 74.4  | 75.9  |
| 40°   | 648.3  | 487.1  | 110.9 | 72.0  | 62.8  | 59.6  | 61.0  | 62.1  | 63.8  | 65.1  | 65.7  |
| 42.5° | 694.6  | 502.1  | 99.4  | 70.2  | 60.8  | 56.2  | 55.8  | 56.3  | 58.4  | 60.8  | 61.3  |
| 45°   | 759.3  | 528.7  | 98.6  | 71.4  | 59.9  | 53.4  | 51.9  | 52.6  | 55.8  | 59.6  | 60.2  |
| 47.5° | 842.0  | 569.1  | 105.0 | 74.8  | 60.7  | 51.9  | 49.5  | 50.3  | 54.4  | 59.4  | 60.2  |
| 50°   | 942.1  | 625.6  | 115.9 | 79.8  | 64.2  | 52.3  | 48.7  | 49.2  | 53.4  | 58.9  | 59.7  |
| 52.5° | 1060.4 | 705.7  | 127.7 | 84.6  | 68.0  | 54.4  | 49.4  | 48.2  | 52.1  | 57.0  | 57.9  |
| 55°   | 1192.0 | 808.5  | 139.8 | 89.0  | 69.9  | 57.0  | 50.7  | 46.9  | 49.7  | 53.7  | 54.5  |
| 57.5° | 1353.5 | 952.2  | 160.9 | 93.2  | 71.2  | 58.7  | 51.9  | 45.6  | 46.6  | 49.5  | 50.2  |
| 60°   | 1572.1 | 1155.4 | 197.9 | 100.2 | 74.1  | 59.4  | 51.8  | 44.5  | 43.5  | 45.1  | 45.5  |
| 62.5° | 1834.1 | 1376.2 | 228.8 | 108.9 | 79.0  | 59.9  | 50.8  | 43.7  | 40.9  | 40.9  | 41.3  |
| 65°   | 1989.6 | 1435.2 | 211.7 | 116.2 | 83.0  | 59.4  | 49.7  | 42.9  | 39.0  | 37.2  | 37.4  |
| 67.5° | 1857.8 | 1262.2 | 181.4 | 117.6 | 82.9  | 57.1  | 47.9  | 41.4  | 37.1  | 34.3  | 34.1  |
| 69°   | 1692.5 | 1089.1 | 167.8 | 113.8 | 79.0  | 54.2  | 45.6  | 39.8  | 35.6  | 32.7  | 32.5  |
| 70°   | 1559.4 | 983.4  | 158.9 | 109.6 | 74.8  | 52.1  | 43.9  | 38.4  | 34.5  | 31.7  | 31.4  |
| 72.5° | 1133.8 | 644.4  | 135.8 | 94.2  | 61.7  | 43.7  | 37.9  | 33.7  | 30.7  | 29.1  | 28.8  |
| 75°   | 566.6  | 307.3  | 110.2 | 76.4  | 47.3  | 35.0  | 31.1  | 28.2  | 26.7  | 26.4  | 26.2  |
| 77.5° | 186.1  | 140.8  | 78.8  | 57.0  | 35.1  | 27.3  | 25.1  | 23.0  | 22.7  | 23.6  | 23.3  |
| 80°   | 102.3  | 81.9   | 50.0  | 37.7  | 24.0  | 20.1  | 19.7  | 18.6  | 19.1  | 20.7  | 20.4  |
| 82.5° | 52.1   | 42.6   | 30.9  | 22.7  | 16.2  | 14.4  | 15.7  | 15.0  | 15.7  | 17.2  | 17.0  |
| 85°   | 25.7   | 23.3   | 19.6  | 13.8  | 10.7  | 9.2   | 11.2  | 11.7  | 12.0  | 13.1  | 13.1  |
| 87.5° | 14.9   | 13.8   | 10.4  | 6.5   | 5.3   | 4.9   | 6.5   | 6.3   | 7.4   | 8.1   | 7.9   |
| 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)