

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: P192969

Luminaire Tested: **GLEON-AF-01-LED-E1-SL4-7030-600**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P192969  
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: GLEON-AF-01-LED-E1-SL4-7030-600  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(1) 70 CRI, 3000K, 615mA 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: 3773.8 lumens  
Efficiency: N/A  
Efficacy: 111.0 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): 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



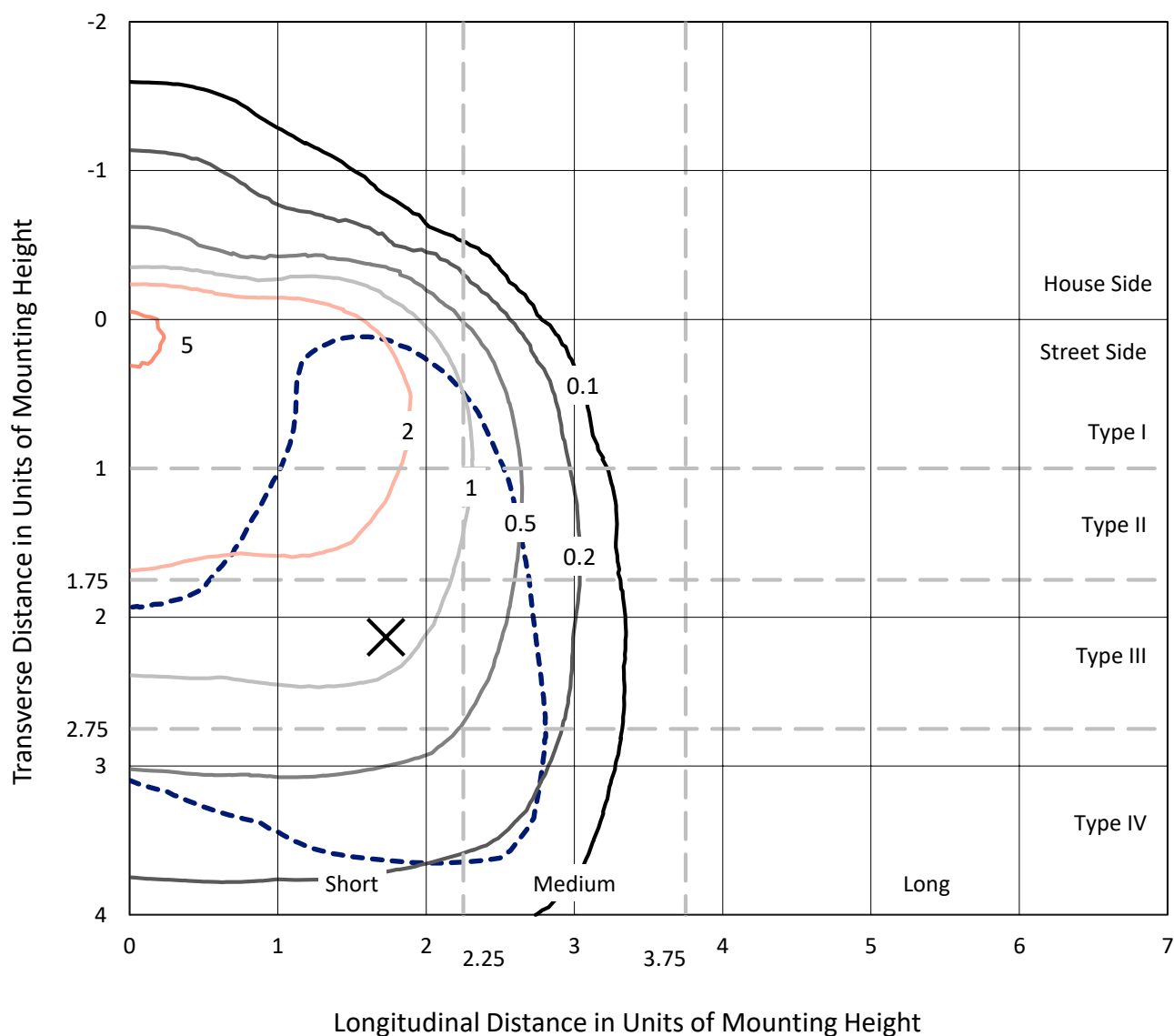
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

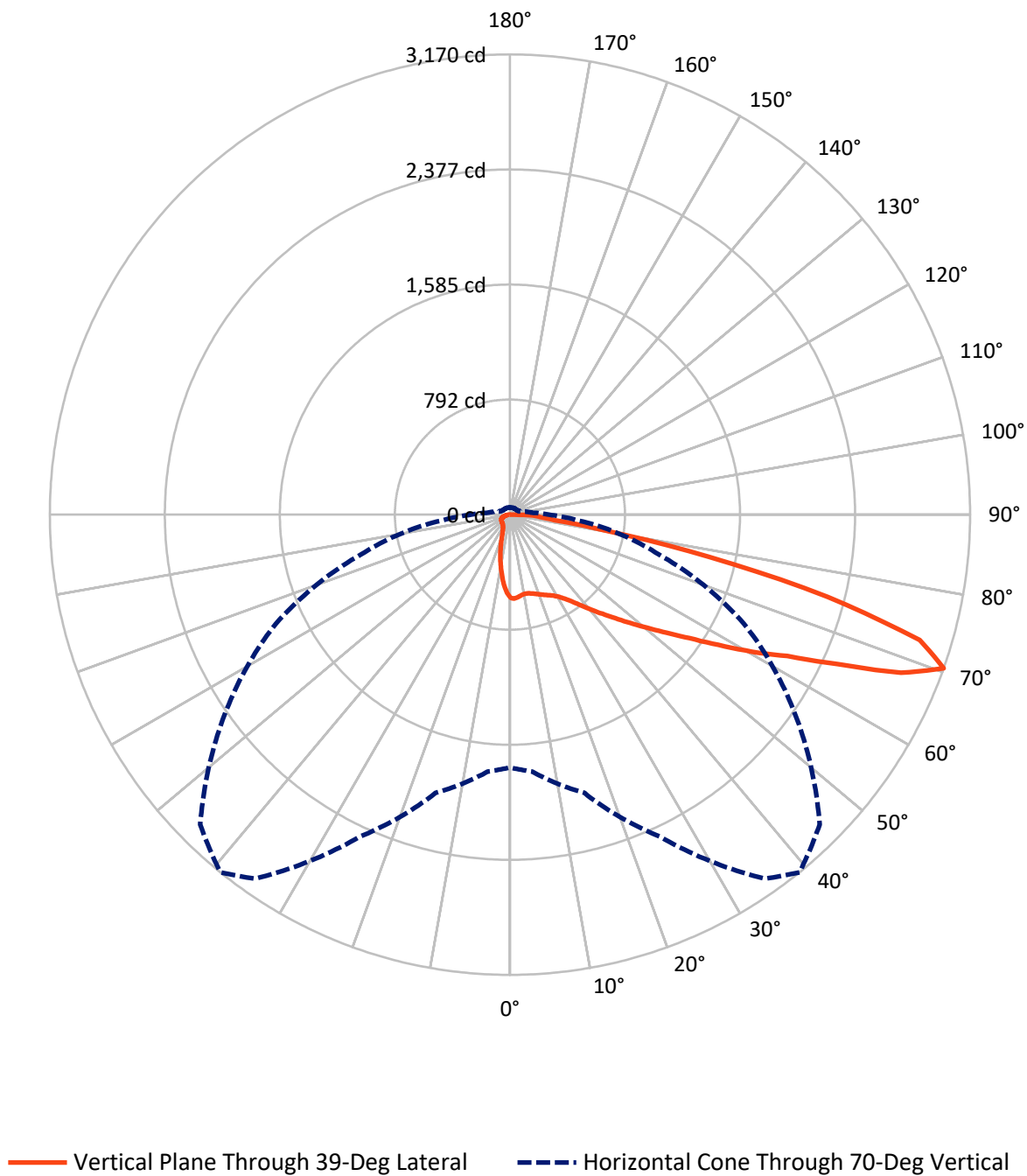


Based on 10 foot mounting height. Maximum calculated value = 5.7 fc  
 Type IV - Short - Semi-Cutoff

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## Luminous Intensity Polar Plot



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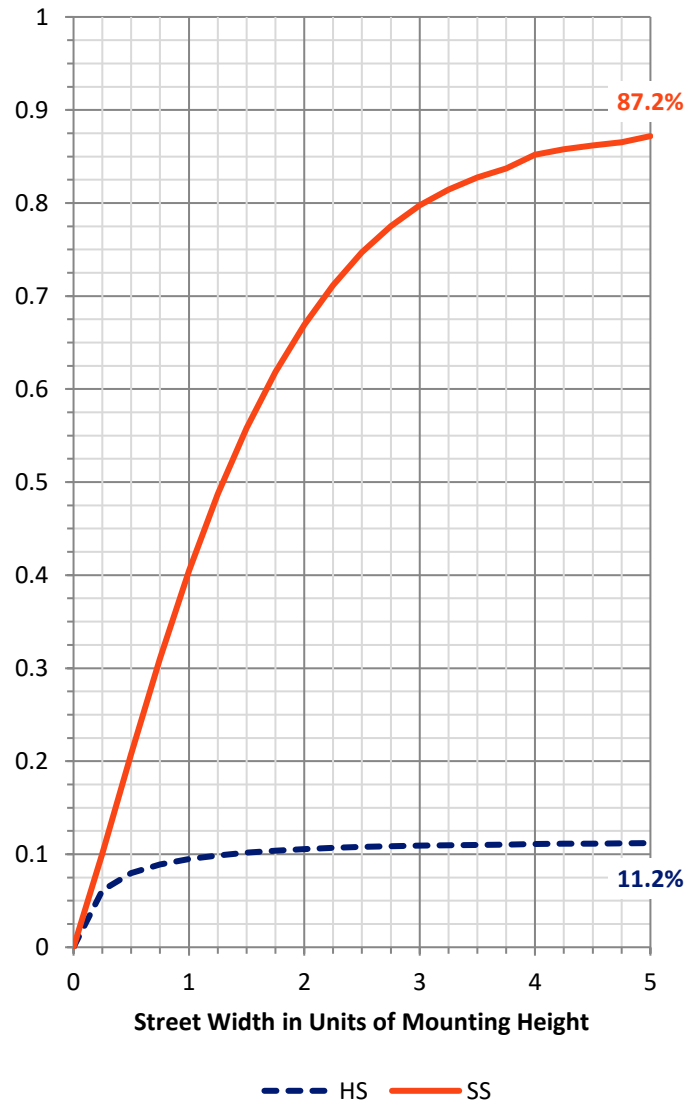
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 429.2    | 0.0    | 429.2  |
|                    | % Fixture | 11.4     | 0.0    | 11.4   |
| <b>Street Side</b> | Lumens    | 3344.6   | 0.0    | 3344.6 |
|                    | % Fixture | 88.6     | 0.0    | 88.6   |
| <b>Total</b>       | Lumens    | 3773.8   | 0.0    | 3773.8 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 49.2   | 1.3       |
| 10°-20°   | 122.9  | 3.3       |
| 20°-30°   | 191.4  | 5.1       |
| 30°-40°   | 298.1  | 7.9       |
| 40°-50°   | 500.5  | 13.3      |
| 50°-60°   | 795.0  | 21.1      |
| 60°-70°   | 1060.5 | 28.1      |
| 70°-80°   | 640.4  | 17.0      |
| 80°-90°   | 115.9  | 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°    | 3773.8 | 100.0     |
| 0°-180°   | 3773.8 | 100.0     |

**Coefficient of Utilization**



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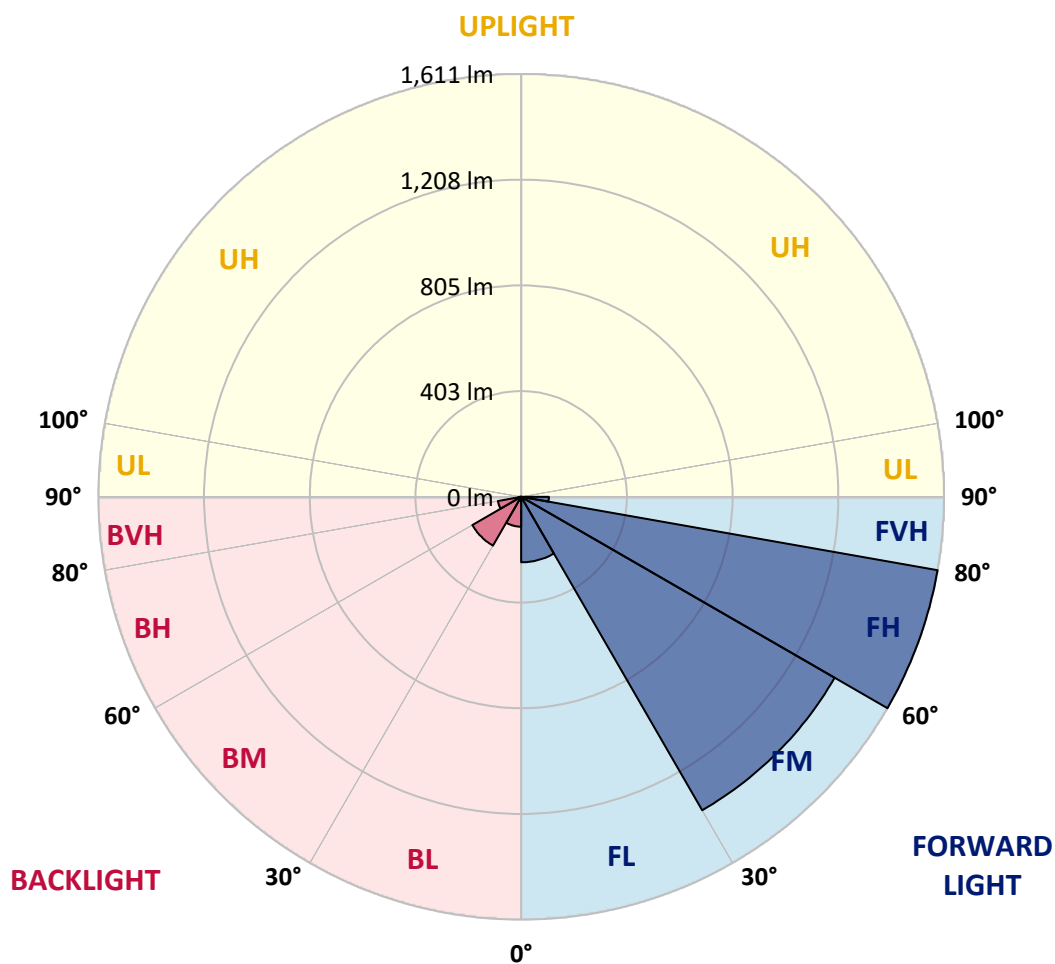
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 249.6  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 1378.8 | 36.5      |                         |      |         |
| FH   | (60°-80°)   | 1610.8 | 42.7      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 105.5  | 2.8       |                         |      | G2/225  |
| BL   | (0°-30°)    | 113.9  | 3.0       | B1/500                  |      |         |
| BM   | (30°-60°)   | 214.8  | 5.7       | B0/220                  |      |         |
| BH   | (60°-80°)   | 90.1   | 2.4       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 10.4   | 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°    | 572.9  | 572.9  | 572.9  | 572.9  | 572.9  | 572.9  | 572.9  | 572.9  | 572.9  | 572.9  | 572.9  |
| 2.5°  | 584.1  | 583.9  | 582.4  | 581.1  | 580.1  | 579.8  | 580.6  | 577.8  | 575.2  | 572.2  | 568.9  |
| 5°    | 579.6  | 579.4  | 577.0  | 574.7  | 572.3  | 571.5  | 571.4  | 566.2  | 563.1  | 558.6  | 552.5  |
| 7.5°  | 574.8  | 573.8  | 570.7  | 566.8  | 562.8  | 560.8  | 559.0  | 552.2  | 548.7  | 544.1  | 537.0  |
| 10°   | 569.9  | 568.7  | 565.6  | 561.8  | 558.0  | 555.0  | 551.9  | 545.3  | 541.6  | 538.2  | 529.9  |
| 12.5° | 564.7  | 563.7  | 562.9  | 561.3  | 558.6  | 556.0  | 553.5  | 547.9  | 544.1  | 540.1  | 530.6  |
| 15°   | 563.9  | 563.6  | 565.2  | 566.4  | 564.9  | 563.3  | 560.6  | 555.8  | 551.9  | 547.8  | 535.4  |
| 17.5° | 570.0  | 569.9  | 574.2  | 577.3  | 576.6  | 573.8  | 570.3  | 564.9  | 561.6  | 558.1  | 542.6  |
| 20°   | 583.5  | 584.4  | 589.8  | 593.9  | 590.0  | 586.1  | 580.1  | 572.7  | 571.0  | 569.5  | 550.1  |
| 22.5° | 608.8  | 609.7  | 613.6  | 615.1  | 605.2  | 599.7  | 591.3  | 581.7  | 580.6  | 581.7  | 559.1  |
| 25°   | 648.4  | 647.4  | 646.9  | 641.1  | 622.8  | 614.1  | 603.6  | 593.6  | 594.3  | 599.4  | 571.8  |
| 27.5° | 700.7  | 695.6  | 687.5  | 670.2  | 641.3  | 631.6  | 618.7  | 609.5  | 613.2  | 623.3  | 590.8  |
| 30°   | 755.0  | 749.3  | 730.6  | 702.4  | 665.4  | 654.9  | 640.5  | 630.1  | 639.7  | 655.4  | 616.1  |
| 32.5° | 805.2  | 804.4  | 777.3  | 741.0  | 698.8  | 689.5  | 675.2  | 663.5  | 679.0  | 703.0  | 654.1  |
| 35°   | 860.2  | 861.8  | 829.3  | 785.7  | 743.8  | 734.3  | 724.0  | 715.1  | 735.9  | 768.8  | 709.2  |
| 37.5° | 918.9  | 922.3  | 883.8  | 834.6  | 795.3  | 791.2  | 785.1  | 781.3  | 813.3  | 859.0  | 786.1  |
| 40°   | 997.3  | 993.9  | 940.4  | 889.9  | 858.4  | 858.2  | 856.3  | 861.0  | 914.3  | 976.8  | 884.9  |
| 42.5° | 1081.3 | 1071.2 | 1000.4 | 949.1  | 927.7  | 934.1  | 938.1  | 956.9  | 1035.7 | 1119.9 | 1005.4 |
| 45°   | 1172.0 | 1149.1 | 1062.8 | 1012.0 | 1004.6 | 1018.4 | 1031.5 | 1072.4 | 1178.7 | 1282.8 | 1137.4 |
| 47.5° | 1244.3 | 1222.2 | 1127.2 | 1077.8 | 1093.6 | 1114.6 | 1139.7 | 1204.4 | 1338.7 | 1451.1 | 1267.7 |
| 50°   | 1301.3 | 1286.8 | 1192.2 | 1154.5 | 1191.7 | 1223.9 | 1265.0 | 1353.8 | 1505.3 | 1615.0 | 1388.3 |
| 52.5° | 1356.6 | 1345.7 | 1257.9 | 1233.1 | 1306.8 | 1351.3 | 1407.1 | 1514.3 | 1676.0 | 1776.1 | 1489.9 |
| 55°   | 1406.3 | 1398.7 | 1328.5 | 1331.3 | 1442.3 | 1500.2 | 1570.5 | 1696.9 | 1862.1 | 1919.9 | 1575.8 |
| 57.5° | 1462.7 | 1452.8 | 1409.1 | 1454.1 | 1616.3 | 1691.6 | 1782.9 | 1902.2 | 2036.7 | 2047.6 | 1641.3 |
| 60°   | 1519.2 | 1510.8 | 1498.5 | 1596.2 | 1837.3 | 1916.4 | 2002.9 | 2101.2 | 2213.8 | 2146.8 | 1637.5 |
| 62.5° | 1568.3 | 1569.3 | 1591.1 | 1745.2 | 2053.7 | 2145.3 | 2250.8 | 2347.9 | 2373.9 | 2164.1 | 1516.3 |
| 65°   | 1651.6 | 1666.7 | 1731.4 | 1956.3 | 2358.5 | 2480.8 | 2610.4 | 2594.8 | 2418.4 | 2002.7 | 1256.7 |
| 67.5° | 1750.7 | 1777.3 | 1908.3 | 2237.6 | 2743.5 | 2906.1 | 2956.1 | 2650.6 | 2240.8 | 1628.0 | 895.8  |
| 70°   | 1740.6 | 1777.3 | 1984.7 | 2447.3 | 3060.9 | 3169.8 | 3018.0 | 2398.9 | 1779.4 | 1063.5 | 475.9  |
| 72.5° | 1545.7 | 1598.1 | 1829.1 | 2351.2 | 2960.9 | 2951.3 | 2620.0 | 1788.5 | 1057.2 | 427.1  | 186.0  |
| 75°   | 1178.1 | 1231.1 | 1429.7 | 1857.5 | 2340.3 | 2259.7 | 1859.0 | 987.9  | 401.2  | 169.6  | 117.2  |
| 77.5° | 677.7  | 718.7  | 872.2  | 1139.1 | 1484.8 | 1402.1 | 1034.8 | 439.3  | 195.3  | 118.2  | 91.6   |
| 80°   | 378.4  | 401.2  | 494.4  | 577.9  | 727.5  | 666.9  | 462.9  | 273.0  | 145.9  | 85.8   | 70.6   |
| 82.5° | 299.2  | 319.5  | 399.9  | 364.6  | 332.3  | 306.6  | 265.9  | 243.1  | 116.5  | 54.1   | 42.2   |
| 85°   | 261.3  | 280.7  | 338.4  | 287.1  | 226.9  | 208.1  | 216.0  | 239.3  | 90.5   | 32.7   | 36.0   |
| 87.5° | 242.1  | 268.0  | 301.7  | 221.2  | 176.7  | 156.6  | 199.4  | 262.3  | 29.2   | 20.3   | 14.5   |
| 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°    | 572.9  | 572.9 | 572.9 | 572.9 | 572.9 | 572.9 | 572.9 | 572.9 | 572.9 | 572.9 | 572.9 |
| 2.5°  | 566.0  | 562.9 | 558.0 | 553.5 | 546.7 | 543.0 | 538.9 | 536.1 | 533.7 | 531.9 | 535.0 |
| 5°    | 548.6  | 542.8 | 532.2 | 520.9 | 507.5 | 496.9 | 488.2 | 479.8 | 474.0 | 470.3 | 473.0 |
| 7.5°  | 532.1  | 522.7 | 506.2 | 485.6 | 462.6 | 443.0 | 426.8 | 412.7 | 402.9 | 396.6 | 399.2 |
| 10°   | 522.7  | 510.9 | 485.4 | 453.2 | 419.2 | 388.8 | 363.4 | 341.6 | 326.3 | 317.7 | 319.0 |
| 12.5° | 520.4  | 505.3 | 470.0 | 425.6 | 379.1 | 336.7 | 301.0 | 270.8 | 249.4 | 238.3 | 238.7 |
| 15°   | 522.0  | 502.7 | 455.3 | 399.2 | 340.4 | 286.8 | 242.3 | 205.5 | 180.8 | 168.0 | 167.9 |
| 17.5° | 525.0  | 500.7 | 440.0 | 370.5 | 301.0 | 238.8 | 189.2 | 153.1 | 131.2 | 121.1 | 120.3 |
| 20°   | 528.0  | 497.6 | 422.8 | 339.6 | 260.1 | 194.4 | 148.1 | 119.9 | 106.1 | 100.5 | 100.2 |
| 22.5° | 532.4  | 495.1 | 404.8 | 307.0 | 220.0 | 158.3 | 121.9 | 102.8 | 95.6  | 92.7  | 92.4  |
| 25°   | 539.5  | 493.7 | 385.9 | 273.0 | 184.0 | 132.4 | 106.1 | 94.4  | 90.1  | 88.3  | 88.1  |
| 27.5° | 551.4  | 495.6 | 367.9 | 240.1 | 154.6 | 114.9 | 97.2  | 90.1  | 87.1  | 85.3  | 85.2  |
| 30°   | 566.8  | 501.5 | 349.2 | 208.8 | 131.7 | 103.0 | 91.9  | 87.3  | 84.7  | 83.0  | 83.0  |
| 32.5° | 592.3  | 511.6 | 329.4 | 181.7 | 115.5 | 94.8  | 87.9  | 84.7  | 82.7  | 81.4  | 81.2  |
| 35°   | 629.9  | 530.4 | 311.1 | 159.3 | 103.8 | 88.8  | 84.4  | 82.2  | 80.7  | 79.9  | 79.9  |
| 37.5° | 684.6  | 560.1 | 294.7 | 143.1 | 96.7  | 84.7  | 81.2  | 79.4  | 78.4  | 78.4  | 78.4  |
| 40°   | 758.0  | 601.2 | 281.5 | 132.4 | 92.7  | 82.0  | 78.6  | 77.3  | 76.7  | 76.9  | 76.9  |
| 42.5° | 848.8  | 654.5 | 272.6 | 124.9 | 90.8  | 80.2  | 76.9  | 75.8  | 75.2  | 75.1  | 75.2  |
| 45°   | 952.3  | 715.1 | 271.7 | 119.3 | 88.8  | 79.1  | 75.8  | 74.7  | 73.5  | 72.7  | 72.7  |
| 47.5° | 1052.8 | 776.8 | 279.6 | 117.5 | 86.8  | 77.7  | 74.9  | 73.6  | 72.0  | 70.3  | 70.3  |
| 50°   | 1141.6 | 829.1 | 290.1 | 118.2 | 86.0  | 75.8  | 73.3  | 72.7  | 70.0  | 68.1  | 68.0  |
| 52.5° | 1212.2 | 869.3 | 298.8 | 120.5 | 86.8  | 74.4  | 71.3  | 71.6  | 68.8  | 66.5  | 66.4  |
| 55°   | 1268.8 | 895.8 | 296.4 | 122.8 | 88.5  | 73.6  | 69.6  | 70.0  | 67.7  | 65.7  | 65.7  |
| 57.5° | 1293.6 | 886.1 | 271.0 | 120.8 | 89.8  | 73.9  | 68.3  | 69.8  | 68.0  | 66.0  | 66.0  |
| 60°   | 1240.4 | 799.1 | 223.1 | 112.4 | 88.1  | 73.3  | 67.7  | 70.6  | 70.4  | 68.5  | 68.3  |
| 62.5° | 1079.7 | 643.5 | 173.0 | 100.0 | 82.2  | 70.4  | 66.2  | 70.4  | 72.5  | 72.0  | 71.8  |
| 65°   | 832.1  | 458.4 | 132.2 | 86.6  | 74.1  | 65.7  | 62.2  | 66.0  | 68.9  | 69.6  | 69.5  |
| 67.5° | 540.1  | 280.9 | 101.8 | 73.9  | 65.0  | 60.1  | 57.1  | 58.7  | 59.3  | 59.3  | 58.9  |
| 70°   | 265.5  | 151.3 | 81.2  | 62.2  | 55.8  | 54.1  | 52.3  | 51.5  | 50.5  | 49.7  | 49.7  |
| 72.5° | 131.0  | 98.8  | 66.7  | 52.6  | 48.2  | 47.4  | 47.0  | 45.9  | 45.2  | 44.1  | 43.7  |
| 75°   | 96.9   | 80.5  | 56.9  | 44.4  | 41.4  | 40.7  | 41.4  | 40.5  | 40.3  | 39.6  | 39.2  |
| 77.5° | 79.6   | 68.5  | 48.9  | 38.0  | 35.5  | 34.2  | 35.3  | 35.5  | 35.7  | 34.5  | 34.2  |
| 80°   | 64.7   | 57.9  | 40.9  | 31.4  | 29.2  | 28.2  | 29.0  | 30.5  | 30.9  | 29.2  | 28.4  |
| 82.5° | 46.7   | 47.4  | 33.0  | 24.6  | 22.6  | 21.9  | 23.4  | 25.3  | 25.6  | 23.2  | 22.6  |
| 85°   | 39.2   | 39.6  | 25.3  | 17.5  | 15.6  | 14.4  | 16.9  | 18.8  | 20.1  | 17.7  | 17.1  |
| 87.5° | 16.3   | 23.2  | 14.5  | 9.9   | 8.6   | 7.4   | 9.1   | 10.0  | 12.1  | 11.2  | 10.9  |
| 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)