

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: P938731

Luminaire Tested: **GALN-SB1A-730-U-SL4-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P938731  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-730-U-SL4-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 3000K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV SPILL LIGHT  
ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3132 lumens  
Efficiency: N/A  
Efficacy: 101.4 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B1 - U0 - G1  
  
Input Watts (W): 30.9  
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: 24 FT

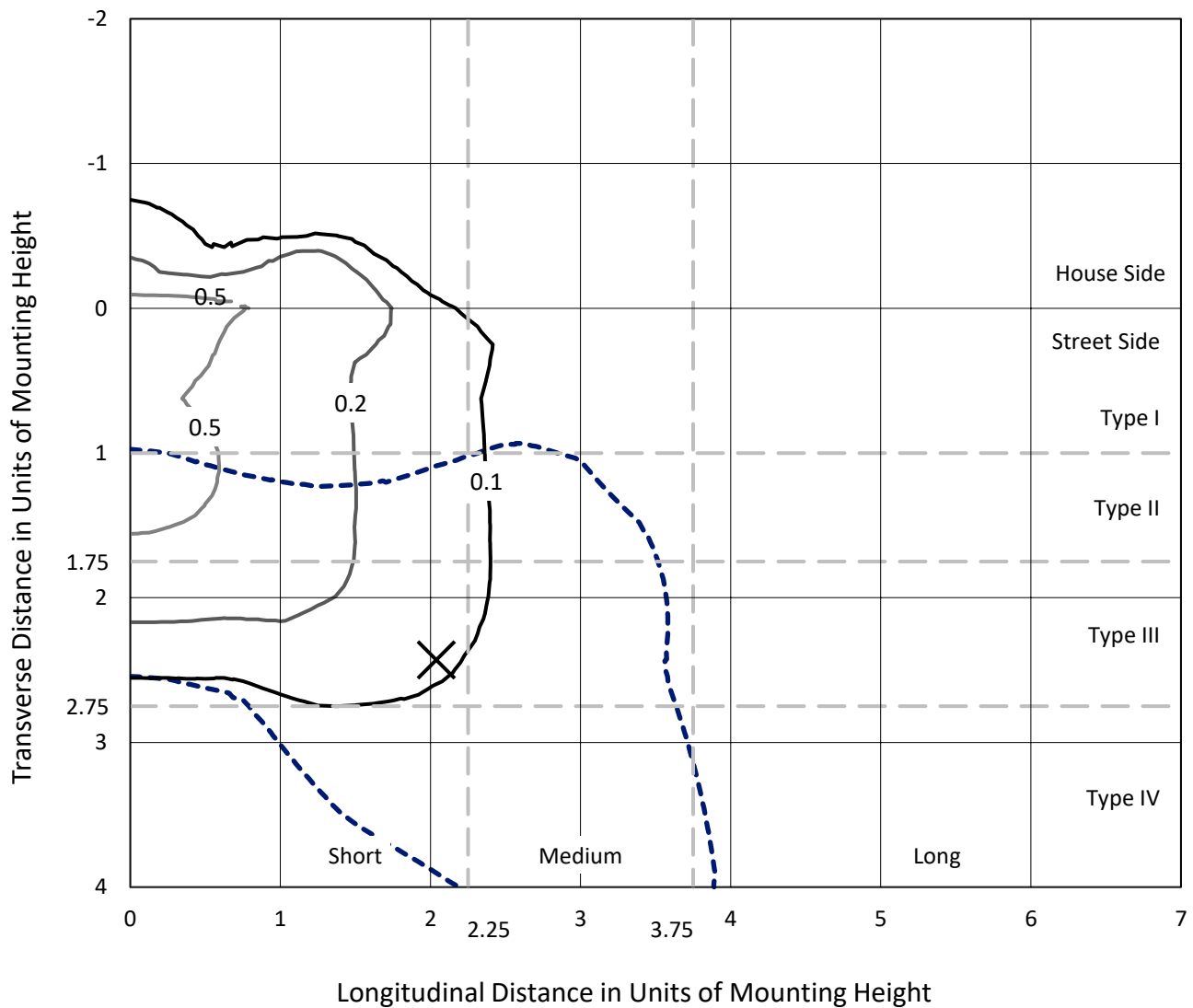


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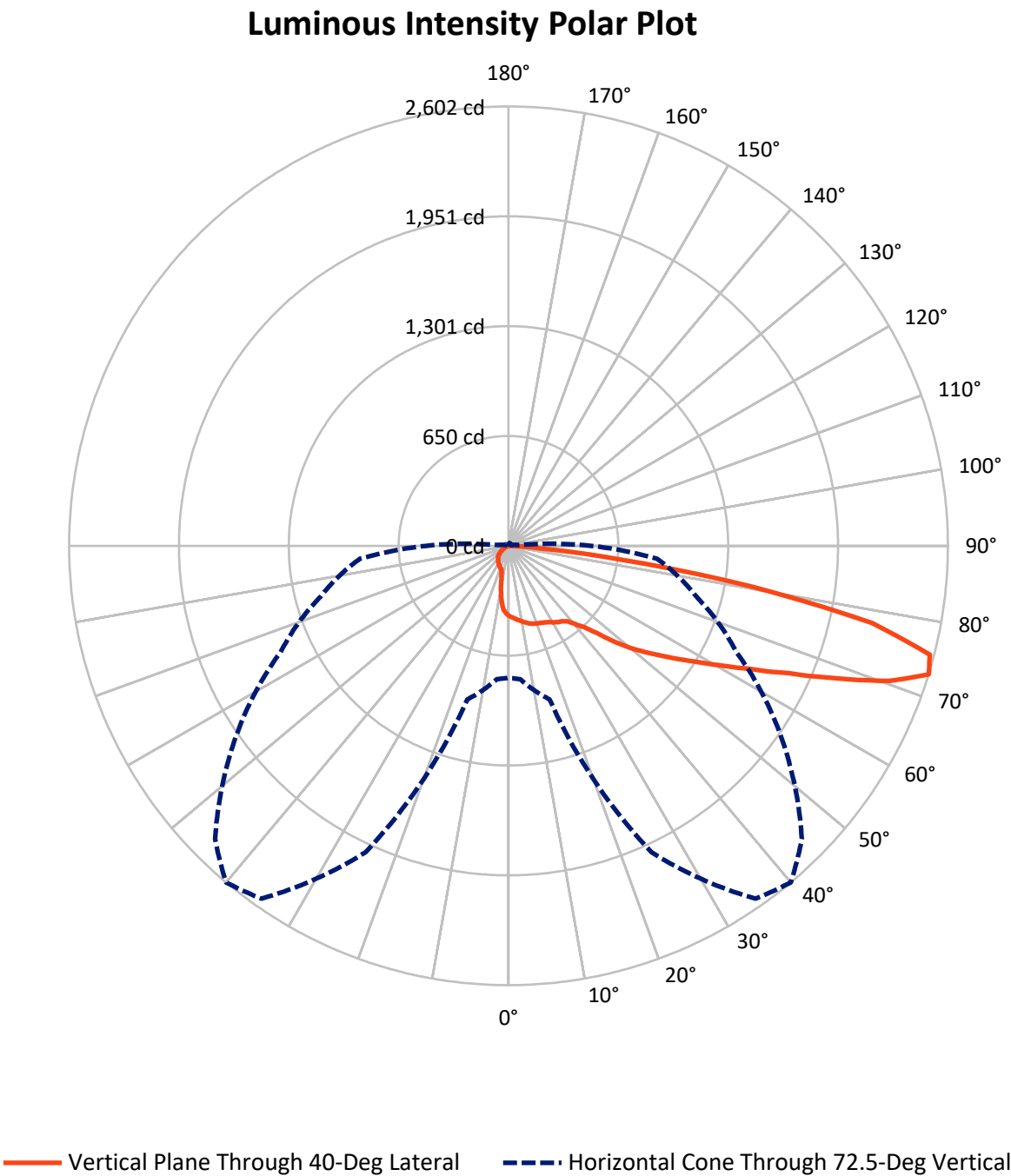
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc  
Type IV - Short - N/A

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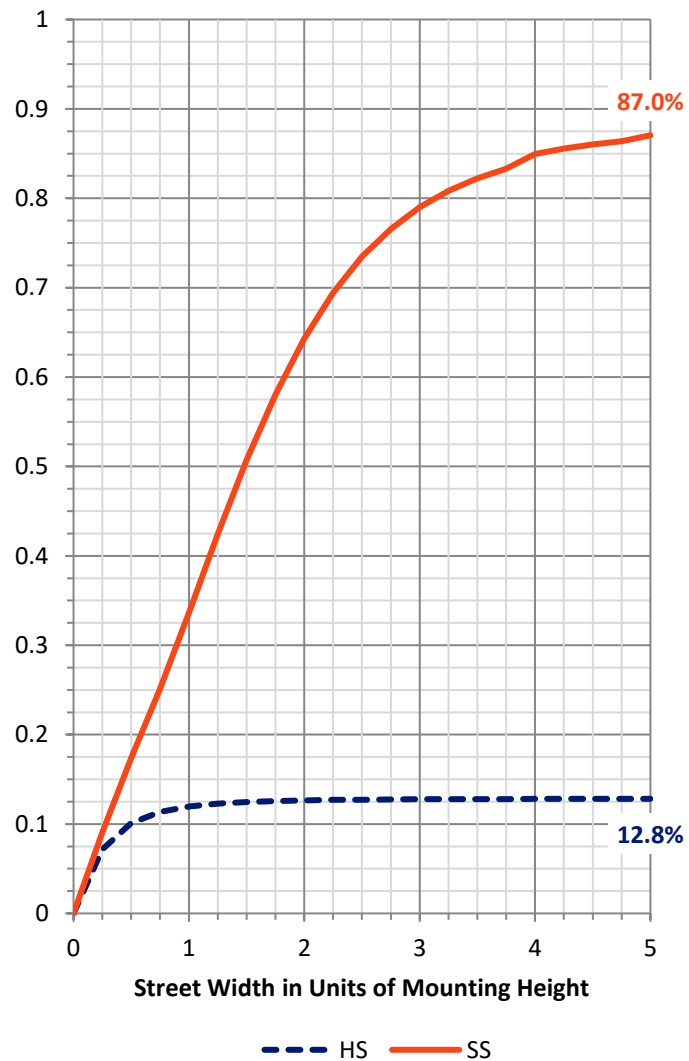
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 404.5    | 0.0    | 404.5  |
|                    | % Fixture | 12.9     | 0.0    | 12.9   |
| <b>Street Side</b> | Lumens    | 2727.5   | 0.0    | 2727.5 |
|                    | % Fixture | 87.1     | 0.0    | 87.1   |
| <b>Total</b>       | Lumens    | 3132.0   | 0.0    | 3132.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.9   | 1.2       |
| 10°-20°   | 102.9  | 3.3       |
| 20°-30°   | 166.4  | 5.3       |
| 30°-40°   | 245.7  | 7.8       |
| 40°-50°   | 413.5  | 13.2      |
| 50°-60°   | 642.1  | 20.5      |
| 60°-70°   | 803.4  | 25.7      |
| 70°-80°   | 657.8  | 21.0      |
| 80°-90°   | 62.4   | 2.0       |
| 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°    | 3132.0 | 100.0     |
| 0°-180°   | 3132.0 | 100.0     |

**Coefficient of Utilization**



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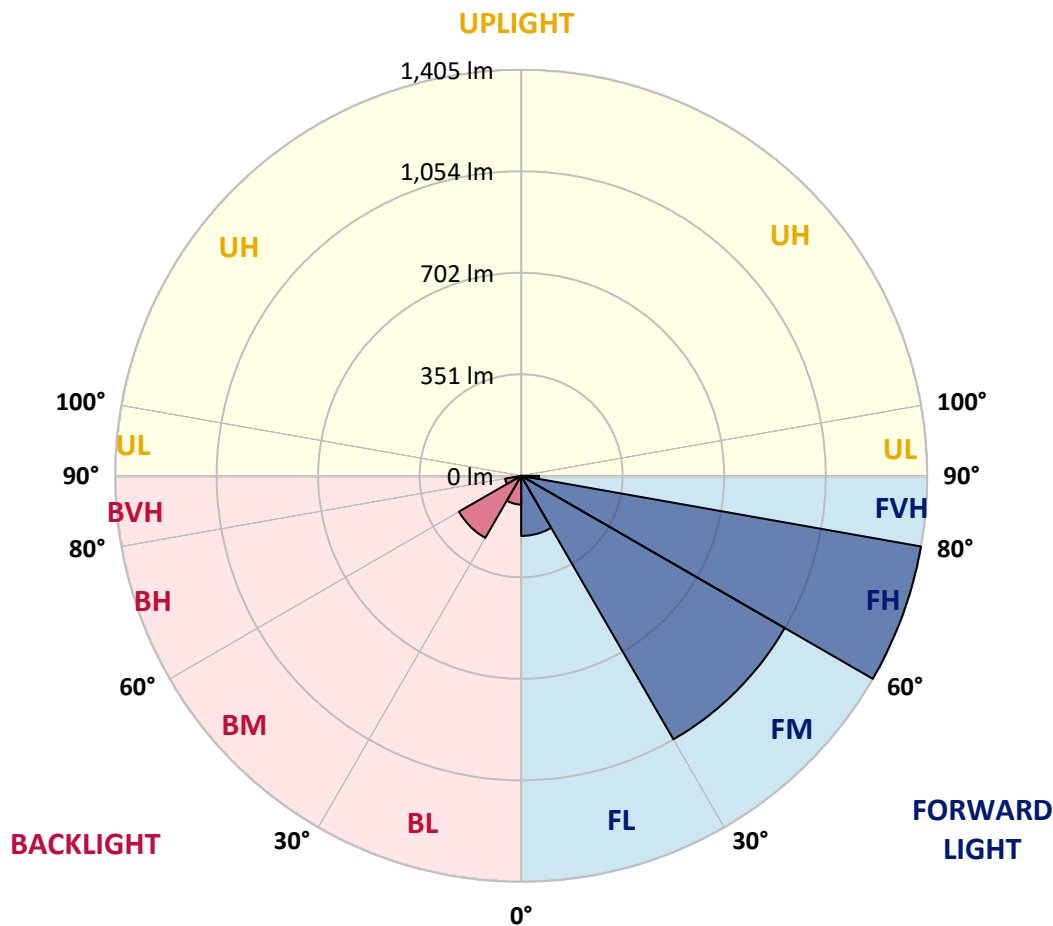
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 207.9  | 6.6       |                         |      |         |
| FM   | (30°-60°)   | 1052.9 | 33.6      |                         |      |         |
| FH   | (60°-80°)   | 1404.8 | 44.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 61.9   | 2.0       |                         |      | G1/100  |
| BL   | (0°-30°)    | 99.3   | 3.2       | B0/110                  |      |         |
| BM   | (30°-60°)   | 248.4  | 7.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 56.3   | 1.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.5    | 0.0       |                         |      | 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 IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 40°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 414.7  | 414.7  | 414.7  | 414.7  | 414.7  | 414.7  | 414.7  | 414.7  | 414.7  | 414.7  | 414.7  |
| 2.5°  | 427.2  | 428.9  | 427.9  | 426.0  | 425.6  | 424.6  | 423.4  | 423.0  | 421.3  | 419.9  | 418.2  |
| 5°    | 439.2  | 440.9  | 439.7  | 437.1  | 435.9  | 434.8  | 433.1  | 431.7  | 428.4  | 425.3  | 421.5  |
| 7.5°  | 452.4  | 453.9  | 452.4  | 448.7  | 446.8  | 445.4  | 443.0  | 440.9  | 437.1  | 432.6  | 427.9  |
| 10°   | 467.1  | 468.3  | 466.1  | 461.2  | 458.1  | 456.0  | 453.9  | 451.5  | 448.0  | 443.0  | 437.3  |
| 12.5° | 480.8  | 482.2  | 478.9  | 473.0  | 469.4  | 467.3  | 464.9  | 463.1  | 459.5  | 454.8  | 448.9  |
| 15°   | 493.3  | 495.4  | 489.7  | 483.3  | 479.3  | 477.7  | 475.3  | 474.1  | 471.8  | 468.5  | 463.1  |
| 17.5° | 502.7  | 504.1  | 498.2  | 490.7  | 486.2  | 485.0  | 483.3  | 484.1  | 483.6  | 481.9  | 478.4  |
| 20°   | 510.7  | 511.7  | 503.9  | 494.7  | 489.7  | 490.0  | 489.5  | 491.8  | 492.8  | 492.8  | 492.5  |
| 22.5° | 520.6  | 520.9  | 510.9  | 499.4  | 493.5  | 495.1  | 495.8  | 498.4  | 500.3  | 502.2  | 506.5  |
| 25°   | 533.6  | 533.1  | 521.3  | 505.5  | 500.3  | 502.7  | 504.3  | 505.3  | 507.4  | 510.5  | 520.1  |
| 27.5° | 552.9  | 551.5  | 536.4  | 515.4  | 509.3  | 511.4  | 514.5  | 514.0  | 513.1  | 515.4  | 531.7  |
| 30°   | 577.5  | 575.6  | 555.5  | 529.3  | 523.7  | 525.6  | 526.5  | 522.3  | 515.4  | 517.6  | 541.8  |
| 32.5° | 616.4  | 613.1  | 585.3  | 544.9  | 536.2  | 538.3  | 537.1  | 528.4  | 518.3  | 520.4  | 552.0  |
| 35°   | 684.1  | 676.1  | 636.7  | 577.5  | 550.3  | 548.0  | 545.2  | 536.7  | 524.2  | 522.0  | 560.5  |
| 37.5° | 828.0  | 813.8  | 746.6  | 640.9  | 582.4  | 567.1  | 558.4  | 549.9  | 530.5  | 522.0  | 570.2  |
| 40°   | 990.3  | 975.9  | 898.3  | 747.1  | 635.7  | 609.8  | 589.0  | 565.4  | 537.1  | 525.1  | 585.3  |
| 42.5° | 1159.7 | 1143.9 | 1064.1 | 878.7  | 711.9  | 658.6  | 619.9  | 577.9  | 548.0  | 534.5  | 605.3  |
| 45°   | 1348.8 | 1329.0 | 1224.8 | 1016.0 | 822.6  | 739.8  | 669.7  | 603.7  | 566.9  | 551.3  | 632.7  |
| 47.5° | 1548.4 | 1522.7 | 1384.9 | 1149.3 | 941.7  | 852.1  | 760.8  | 649.7  | 594.7  | 576.3  | 669.7  |
| 50°   | 1725.3 | 1699.9 | 1550.3 | 1288.7 | 1053.0 | 958.9  | 864.6  | 713.3  | 636.4  | 611.7  | 719.5  |
| 52.5° | 1852.5 | 1833.1 | 1700.8 | 1432.6 | 1168.9 | 1059.2 | 958.7  | 787.4  | 689.3  | 657.0  | 778.2  |
| 55°   | 1937.6 | 1919.9 | 1807.4 | 1568.9 | 1303.6 | 1169.6 | 1051.4 | 867.9  | 753.0  | 711.2  | 843.1  |
| 57.5° | 1989.3 | 1979.2 | 1884.6 | 1690.7 | 1437.1 | 1290.3 | 1157.5 | 956.3  | 828.0  | 775.1  | 915.5  |
| 60°   | 2007.7 | 1999.4 | 1932.4 | 1806.7 | 1598.4 | 1435.4 | 1282.3 | 1056.1 | 919.0  | 847.8  | 989.8  |
| 62.5° | 1958.6 | 1960.3 | 1966.9 | 1944.2 | 1768.5 | 1605.3 | 1431.9 | 1175.9 | 1020.0 | 930.1  | 1059.6 |
| 65°   | 1727.7 | 1741.4 | 1866.9 | 2096.6 | 1993.8 | 1818.0 | 1622.2 | 1322.2 | 1135.6 | 1023.8 | 1115.1 |
| 67.5° | 1430.5 | 1450.3 | 1606.4 | 2185.8 | 2233.9 | 2094.3 | 1887.4 | 1508.5 | 1273.4 | 1119.1 | 1136.1 |
| 70°   | 1095.0 | 1116.3 | 1305.4 | 2167.2 | 2458.7 | 2396.2 | 2215.3 | 1745.6 | 1416.1 | 1185.1 | 1082.5 |
| 72.5° | 781.5  | 792.4  | 941.5  | 2001.3 | 2551.0 | 2601.9 | 2456.8 | 1970.2 | 1489.0 | 1148.6 | 883.0  |
| 75°   | 549.2  | 547.3  | 646.1  | 1611.6 | 2407.3 | 2576.9 | 2372.2 | 1848.7 | 1347.4 | 912.4  | 544.4  |
| 77.5° | 239.2  | 239.7  | 322.7  | 978.7  | 1921.4 | 2200.9 | 1971.8 | 1158.0 | 939.3  | 483.6  | 229.8  |
| 80°   | 62.0   | 63.9   | 118.4  | 389.7  | 1156.8 | 1452.6 | 1202.6 | 509.1  | 434.0  | 117.9  | 43.9   |
| 82.5° | 21.9   | 23.4   | 54.5   | 122.4  | 426.7  | 666.2  | 535.5  | 162.8  | 113.2  | 33.7   | 11.8   |
| 85°   | 6.4    | 7.5    | 29.3   | 37.5   | 88.2   | 188.2  | 130.0  | 31.6   | 27.8   | 17.5   | 3.1    |
| 87.5° | 0.0    | 0.9    | 5.9    | 5.2    | 5.2    | 3.5    | 6.6    | 3.5    | 4.5    | 2.1    | 0.9    |
| 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°    | 414.7  | 414.7  | 414.7 | 414.7 | 414.7 | 414.7 | 414.7 | 414.7 | 414.7 | 414.7 | 414.7 |
| 2.5°  | 416.8  | 415.2  | 411.6 | 407.9 | 404.3 | 401.0 | 400.1 | 396.5 | 394.9 | 395.1 | 394.9 |
| 5°    | 418.9  | 415.9  | 409.0 | 400.8 | 392.3 | 382.6 | 374.6 | 363.3 | 353.6 | 352.4 | 351.7 |
| 7.5°  | 424.6  | 419.7  | 408.6 | 392.5 | 371.3 | 344.6 | 319.9 | 295.3 | 281.4 | 273.9 | 273.4 |
| 10°   | 433.3  | 426.7  | 409.7 | 379.1 | 334.0 | 286.4 | 248.9 | 218.0 | 202.2 | 194.8 | 193.4 |
| 12.5° | 443.7  | 436.4  | 411.6 | 356.2 | 285.9 | 223.4 | 182.8 | 163.9 | 160.6 | 160.2 | 159.9 |
| 15°   | 458.3  | 450.3  | 413.8 | 325.3 | 233.8 | 170.1 | 151.4 | 151.7 | 154.3 | 155.7 | 155.5 |
| 17.5° | 474.6  | 466.6  | 410.7 | 287.6 | 182.3 | 145.3 | 144.8 | 147.0 | 150.7 | 152.2 | 151.9 |
| 20°   | 491.1  | 483.6  | 399.8 | 243.2 | 147.4 | 138.5 | 140.4 | 142.7 | 146.5 | 148.4 | 148.4 |
| 22.5° | 508.1  | 501.5  | 382.6 | 196.0 | 133.0 | 133.5 | 135.9 | 138.2 | 142.5 | 144.6 | 144.6 |
| 25°   | 526.3  | 520.6  | 359.7 | 157.1 | 126.9 | 128.3 | 131.4 | 134.2 | 138.7 | 141.3 | 141.3 |
| 27.5° | 544.7  | 540.4  | 333.8 | 131.2 | 121.2 | 122.9 | 126.4 | 130.2 | 134.7 | 137.8 | 138.0 |
| 30°   | 564.7  | 562.4  | 313.0 | 121.5 | 115.8 | 117.2 | 121.2 | 125.5 | 130.4 | 134.2 | 134.7 |
| 32.5° | 585.3  | 584.8  | 302.9 | 128.6 | 110.9 | 111.8 | 115.4 | 119.6 | 125.7 | 130.4 | 130.9 |
| 35°   | 605.5  | 606.5  | 297.0 | 148.6 | 109.2 | 106.6 | 109.0 | 112.8 | 120.1 | 126.0 | 126.9 |
| 37.5° | 631.5  | 633.8  | 296.8 | 170.3 | 113.2 | 101.4 | 103.1 | 105.7 | 112.0 | 118.9 | 120.1 |
| 40°   | 670.2  | 682.7  | 311.9 | 189.0 | 120.3 | 96.7  | 97.2  | 97.7  | 101.0 | 106.6 | 108.5 |
| 42.5° | 721.6  | 758.2  | 366.3 | 201.7 | 123.1 | 92.5  | 90.8  | 88.2  | 87.8  | 90.8  | 92.5  |
| 45°   | 785.5  | 849.5  | 462.1 | 208.8 | 120.3 | 87.8  | 83.3  | 76.4  | 73.8  | 76.0  | 76.0  |
| 47.5° | 860.8  | 949.5  | 575.6 | 210.4 | 115.6 | 81.9  | 73.8  | 64.9  | 62.7  | 63.5  | 63.2  |
| 50°   | 934.1  | 1024.5 | 675.4 | 196.7 | 107.8 | 74.3  | 63.5  | 55.9  | 54.5  | 54.7  | 54.7  |
| 52.5° | 999.0  | 1050.2 | 703.7 | 164.4 | 97.4  | 65.1  | 54.5  | 49.3  | 48.4  | 48.4  | 48.1  |
| 55°   | 1041.9 | 1022.4 | 627.5 | 125.7 | 84.5  | 55.7  | 46.7  | 44.1  | 43.6  | 43.4  | 42.9  |
| 57.5° | 1050.9 | 931.8  | 473.9 | 90.8  | 66.1  | 46.9  | 41.5  | 40.1  | 39.2  | 38.2  | 37.7  |
| 60°   | 1018.8 | 780.8  | 301.7 | 63.5  | 49.5  | 40.1  | 36.8  | 35.9  | 34.0  | 32.1  | 31.4  |
| 62.5° | 949.5  | 589.7  | 167.0 | 44.1  | 39.9  | 34.2  | 32.6  | 31.4  | 27.8  | 24.8  | 23.8  |
| 65°   | 856.3  | 392.1  | 73.8  | 34.4  | 32.6  | 28.8  | 27.8  | 26.2  | 21.9  | 18.4  | 17.7  |
| 67.5° | 762.6  | 225.8  | 33.3  | 27.6  | 26.2  | 23.6  | 22.9  | 21.7  | 18.6  | 15.3  | 14.9  |
| 70°   | 655.8  | 114.4  | 22.9  | 21.9  | 20.3  | 17.9  | 18.6  | 18.4  | 15.3  | 12.5  | 12.0  |
| 72.5° | 488.3  | 56.9   | 17.2  | 16.5  | 14.6  | 12.7  | 15.3  | 15.1  | 12.0  | 9.4   | 9.0   |
| 75°   | 276.5  | 28.1   | 12.5  | 11.6  | 8.7   | 9.4   | 12.3  | 11.6  | 8.3   | 6.1   | 5.7   |
| 77.5° | 109.7  | 14.4   | 8.3   | 7.1   | 5.2   | 6.4   | 9.0   | 7.8   | 4.2   | 2.6   | 2.4   |
| 80°   | 25.2   | 7.1    | 4.2   | 3.1   | 2.4   | 3.8   | 4.7   | 2.8   | 1.2   | 0.2   | 0.0   |
| 82.5° | 7.1    | 3.1    | 1.4   | 1.2   | 1.2   | 1.4   | 1.2   | 0.5   | 0.0   | 0.0   | 0.0   |
| 85°   | 2.4    | 1.4    | 0.5   | 0.2   | 0.2   | 0.2   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 0.9    | 0.5    | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 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)