

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: P938728

Luminaire Tested: **GALN-SB1A-727-U-T4FT-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P938728  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-25)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB1A-727-U-T4FT-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2700K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE IV FORWARD  
THROW OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 3151 lumens  
Efficiency: N/A  
Efficacy: 102.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B0 - 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

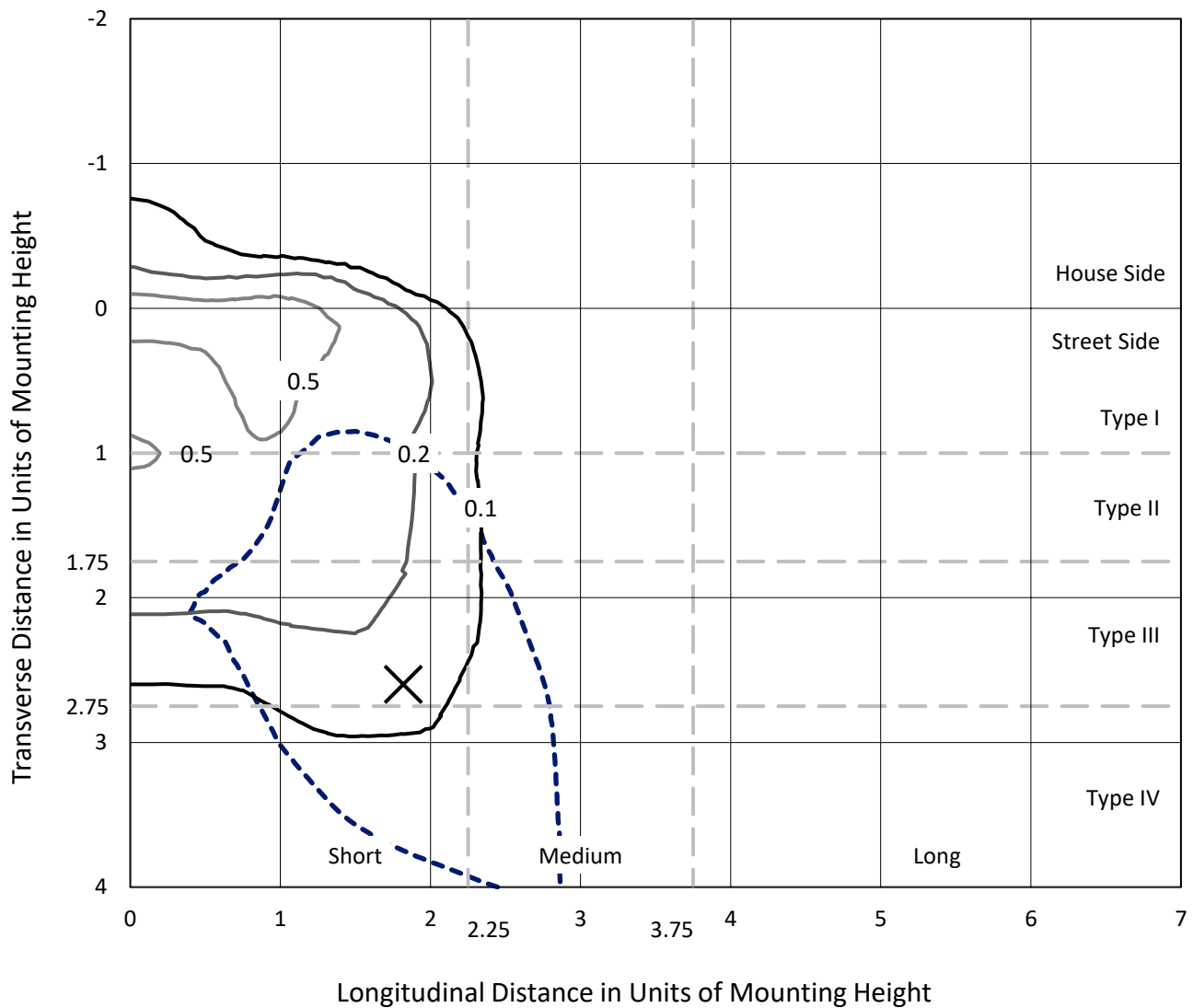


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## Iso-Footcandle Lines of Horizontal Illumination

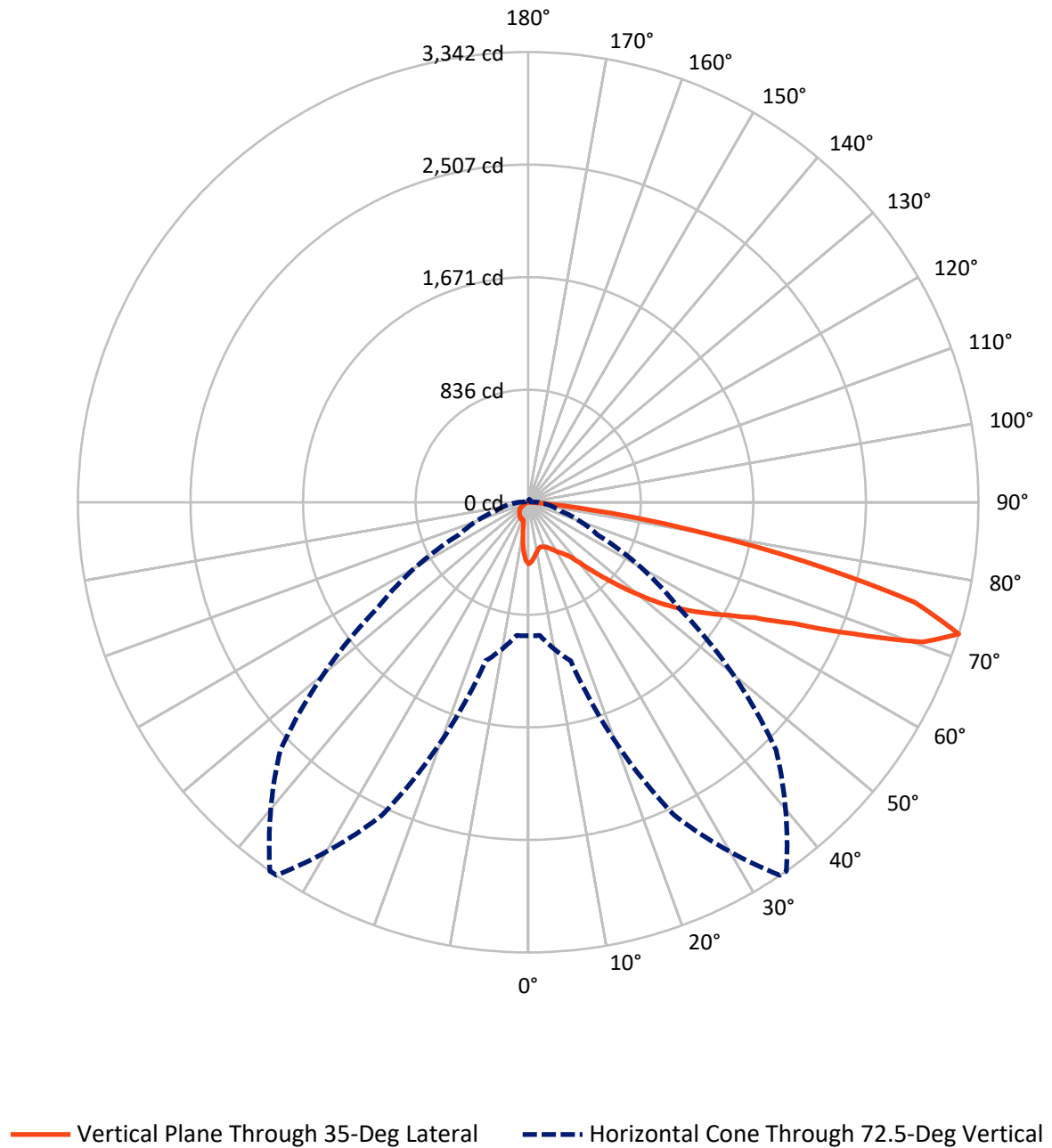
× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.7 fc  
Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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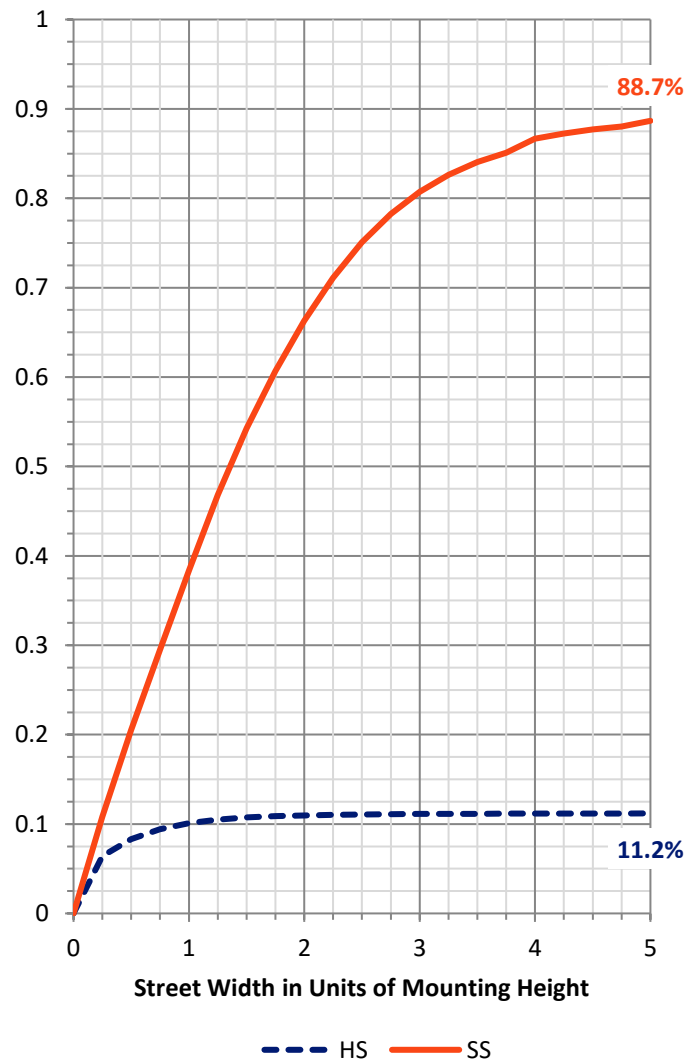
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 354.6    | 0.0    | 354.6  |
|                    | % Fixture | 11.3     | 0.0    | 11.3   |
| <b>Street Side</b> | Lumens    | 2796.4   | 0.0    | 2796.4 |
|                    | % Fixture | 88.7     | 0.0    | 88.7   |
| <b>Total</b>       | Lumens    | 3151.0   | 0.0    | 3151.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 37.5   | 1.2       |
| 10°-20°   | 87.8   | 2.8       |
| 20°-30°   | 142.6  | 4.5       |
| 30°-40°   | 237.9  | 7.6       |
| 40°-50°   | 450.2  | 14.3      |
| 50°-60°   | 715.4  | 22.7      |
| 60°-70°   | 885.0  | 28.1      |
| 70°-80°   | 550.1  | 17.5      |
| 80°-90°   | 44.5   | 1.4       |
| 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°    | 3151.0 | 100.0     |
| 0°-180°   | 3151.0 | 100.0     |

**Coefficient of Utilization**



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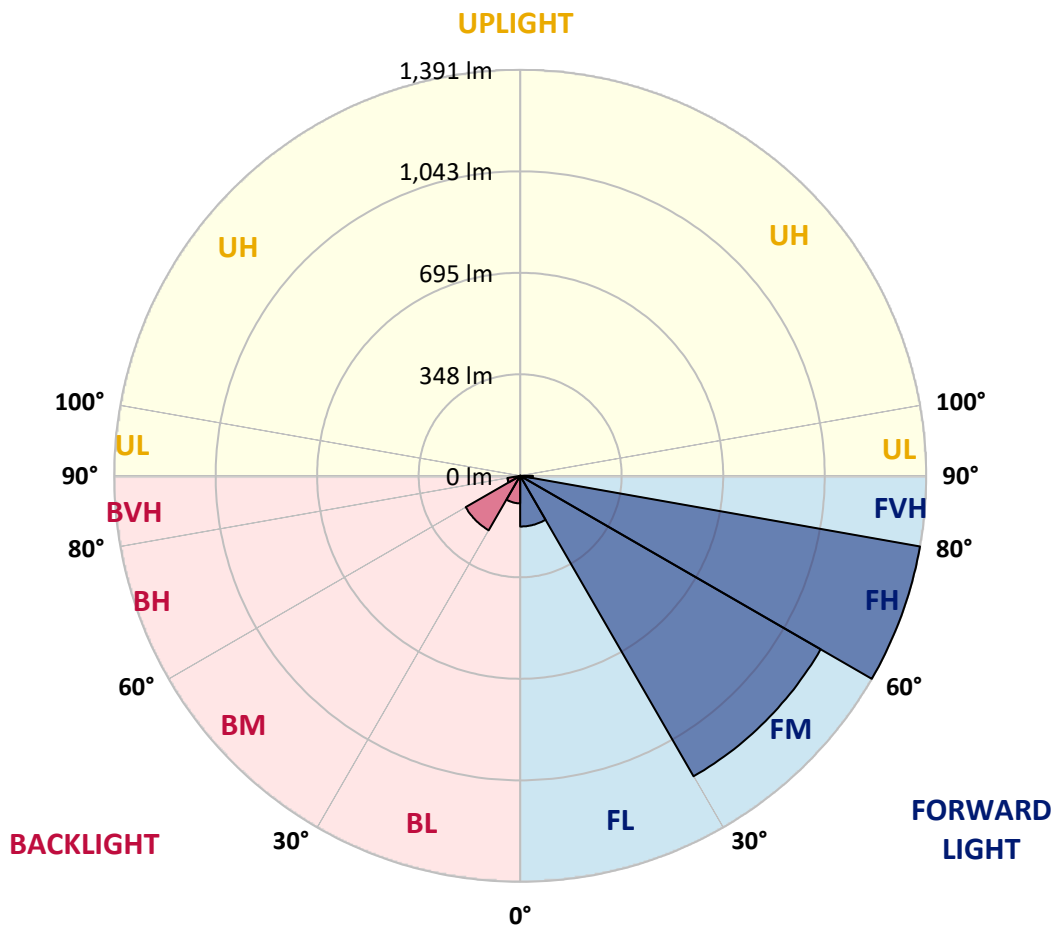
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 173.7  | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 1188.2 | 37.7      |                         |      |         |
| FH   | (60°-80°)   | 1390.6 | 44.1      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 43.9   | 1.4       |                         |      | G1/100  |
| BL   | (0°-30°)    | 94.2   | 3.0       | B0/110                  |      |         |
| BM   | (30°-60°)   | 215.3  | 6.8       | B0/220                  |      |         |
| BH   | (60°-80°)   | 44.5   | 1.4       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 0.6    | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B0-U0-G1**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 34°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 456.7  | 456.7  | 456.7  | 456.7  | 456.7  | 456.7  | 456.7  | 456.7  | 456.7  | 456.7  | 456.7  |
| 2.5°  | 436.4  | 440.1  | 440.8  | 441.9  | 441.9  | 443.3  | 445.6  | 448.8  | 454.1  | 456.9  | 458.8  |
| 5°    | 402.2  | 405.0  | 408.4  | 411.2  | 416.5  | 417.2  | 426.2  | 435.0  | 447.2  | 456.5  | 462.9  |
| 7.5°  | 367.8  | 371.0  | 375.6  | 382.3  | 389.3  | 391.3  | 405.0  | 419.7  | 439.1  | 456.5  | 467.3  |
| 10°   | 343.6  | 343.8  | 347.9  | 354.6  | 365.7  | 368.3  | 384.9  | 405.9  | 430.1  | 453.7  | 471.5  |
| 12.5° | 329.9  | 331.5  | 333.4  | 338.5  | 349.1  | 350.7  | 368.5  | 393.2  | 421.1  | 452.1  | 476.3  |
| 15°   | 329.9  | 331.1  | 332.2  | 334.8  | 343.3  | 344.7  | 360.4  | 385.1  | 416.5  | 452.8  | 484.2  |
| 17.5° | 333.4  | 335.2  | 334.3  | 337.3  | 346.3  | 347.2  | 361.1  | 382.8  | 416.3  | 457.1  | 496.2  |
| 20°   | 341.7  | 343.1  | 341.2  | 343.1  | 352.1  | 353.9  | 368.3  | 387.2  | 420.2  | 464.8  | 511.2  |
| 22.5° | 354.9  | 355.6  | 351.2  | 352.6  | 361.8  | 364.1  | 380.7  | 399.7  | 429.7  | 477.0  | 531.3  |
| 25°   | 371.5  | 372.9  | 366.2  | 367.8  | 376.6  | 379.3  | 398.5  | 418.4  | 444.7  | 493.9  | 556.9  |
| 27.5° | 390.7  | 391.3  | 385.6  | 385.3  | 396.7  | 400.6  | 420.0  | 441.4  | 464.8  | 515.1  | 589.2  |
| 30°   | 412.6  | 414.7  | 409.1  | 408.2  | 422.5  | 425.7  | 444.9  | 469.8  | 494.3  | 547.0  | 635.2  |
| 32.5° | 429.9  | 431.5  | 428.3  | 430.6  | 445.1  | 447.7  | 475.2  | 510.0  | 540.7  | 592.2  | 697.7  |
| 35°   | 454.8  | 455.8  | 448.4  | 452.5  | 469.2  | 475.6  | 516.5  | 566.4  | 599.1  | 649.0  | 779.5  |
| 37.5° | 545.1  | 545.1  | 513.7  | 493.2  | 509.1  | 514.9  | 573.1  | 637.2  | 671.2  | 725.2  | 882.4  |
| 40°   | 670.0  | 667.9  | 622.0  | 580.0  | 577.9  | 589.2  | 653.6  | 726.6  | 764.2  | 816.6  | 998.3  |
| 42.5° | 803.2  | 800.0  | 737.4  | 695.9  | 689.0  | 692.9  | 746.7  | 836.7  | 875.0  | 928.1  | 1123.0 |
| 45°   | 921.5  | 920.5  | 863.3  | 807.4  | 794.9  | 807.4  | 862.8  | 965.6  | 993.0  | 1048.9 | 1247.5 |
| 47.5° | 1020.5 | 1020.5 | 978.7  | 942.2  | 935.8  | 943.2  | 1020.0 | 1108.5 | 1105.9 | 1177.5 | 1368.7 |
| 50°   | 1134.6 | 1133.6 | 1093.9 | 1078.2 | 1084.9 | 1095.3 | 1201.1 | 1259.0 | 1222.8 | 1303.8 | 1477.0 |
| 52.5° | 1214.4 | 1220.0 | 1206.4 | 1203.8 | 1238.0 | 1256.0 | 1384.8 | 1406.3 | 1327.3 | 1423.6 | 1558.0 |
| 55°   | 1277.7 | 1284.2 | 1299.9 | 1317.6 | 1383.4 | 1407.0 | 1562.8 | 1546.0 | 1414.8 | 1527.5 | 1604.6 |
| 57.5° | 1367.3 | 1358.1 | 1382.3 | 1417.4 | 1523.8 | 1552.2 | 1735.3 | 1677.8 | 1485.3 | 1611.8 | 1609.7 |
| 60°   | 1476.0 | 1477.4 | 1481.6 | 1525.9 | 1664.0 | 1700.4 | 1905.2 | 1802.5 | 1530.5 | 1663.5 | 1553.4 |
| 62.5° | 1606.7 | 1608.8 | 1617.3 | 1685.4 | 1852.1 | 1886.5 | 2086.3 | 1904.5 | 1551.3 | 1649.0 | 1407.9 |
| 65°   | 1597.7 | 1606.5 | 1701.8 | 1934.8 | 2138.2 | 2172.1 | 2297.5 | 1976.1 | 1519.9 | 1516.0 | 1146.3 |
| 67.5° | 1455.5 | 1469.8 | 1629.3 | 2232.6 | 2569.5 | 2607.4 | 2552.9 | 1990.2 | 1384.4 | 1178.9 | 747.8  |
| 70°   | 1268.9 | 1274.0 | 1465.9 | 2500.5 | 3068.9 | 3107.2 | 2781.4 | 1835.3 | 1050.5 | 657.6  | 335.0  |
| 72.5° | 990.9  | 992.1  | 1217.2 | 2562.6 | 3339.9 | 3342.0 | 2602.0 | 1362.4 | 565.0  | 252.6  | 116.4  |
| 75°   | 707.9  | 701.0  | 815.2  | 2078.2 | 2938.4 | 2962.0 | 1950.7 | 639.1  | 215.9  | 119.4  | 58.0   |
| 77.5° | 379.6  | 387.2  | 461.3  | 1232.5 | 2029.9 | 2070.1 | 1064.4 | 184.2  | 109.9  | 81.3   | 38.3   |
| 80°   | 117.3  | 123.8  | 189.1  | 564.3  | 1149.8 | 1174.0 | 394.6  | 82.0   | 76.7   | 58.0   | 25.2   |
| 82.5° | 36.9   | 38.3   | 88.2   | 237.1  | 477.2  | 488.3  | 114.3  | 46.4   | 52.4   | 38.3   | 14.8   |
| 85°   | 10.6   | 10.9   | 39.3   | 88.4   | 118.0  | 120.3  | 32.1   | 18.0   | 30.0   | 23.8   | 7.6    |
| 87.5° | 1.2    | 3.7    | 14.8   | 14.8   | 10.4   | 10.2   | 3.5    | 3.9    | 8.5    | 3.0    | 1.4    |
| 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°    | 456.7  | 456.7 | 456.7 | 456.7 | 456.7 | 456.7 | 456.7 | 456.7 | 456.7 | 456.7 | 456.7 |
| 2.5°  | 457.6  | 457.8 | 454.8 | 449.8 | 444.2 | 439.6 | 433.8 | 429.2 | 426.0 | 425.1 | 426.7 |
| 5°    | 460.8  | 459.2 | 450.7 | 435.2 | 416.7 | 400.8 | 383.0 | 369.0 | 359.7 | 355.8 | 357.2 |
| 7.5°  | 465.7  | 461.1 | 442.4 | 411.9 | 376.6 | 345.2 | 313.3 | 288.6 | 272.9 | 265.1 | 266.2 |
| 10°   | 469.8  | 460.6 | 428.5 | 378.2 | 324.2 | 276.6 | 233.7 | 203.9 | 187.2 | 179.4 | 179.6 |
| 12.5° | 473.8  | 460.4 | 410.5 | 338.2 | 265.1 | 206.9 | 166.9 | 152.2 | 147.5 | 145.9 | 145.5 |
| 15°   | 481.2  | 461.1 | 387.9 | 292.5 | 206.2 | 156.3 | 141.8 | 141.5 | 142.5 | 142.0 | 141.8 |
| 17.5° | 491.3  | 461.8 | 362.3 | 244.0 | 159.1 | 137.8 | 137.1 | 139.2 | 140.6 | 139.9 | 139.7 |
| 20°   | 504.5  | 464.5 | 335.0 | 196.0 | 136.7 | 133.2 | 134.8 | 136.7 | 137.8 | 136.7 | 136.5 |
| 22.5° | 522.9  | 469.4 | 305.2 | 157.5 | 129.5 | 130.4 | 131.8 | 133.9 | 135.1 | 133.5 | 133.2 |
| 25°   | 545.6  | 477.0 | 275.9 | 136.9 | 126.1 | 127.2 | 129.3 | 131.6 | 133.0 | 131.4 | 131.1 |
| 27.5° | 574.9  | 489.2 | 248.9 | 132.3 | 122.6 | 123.3 | 126.3 | 129.8 | 131.6 | 129.5 | 129.5 |
| 30°   | 617.4  | 509.3 | 225.6 | 134.4 | 120.5 | 118.9 | 123.1 | 127.9 | 130.0 | 128.1 | 127.9 |
| 32.5° | 673.7  | 537.7 | 211.3 | 137.6 | 119.6 | 113.8 | 117.8 | 124.0 | 127.4 | 126.3 | 126.3 |
| 35°   | 747.6  | 580.9 | 205.7 | 141.3 | 118.9 | 108.5 | 111.3 | 118.0 | 124.0 | 125.1 | 125.1 |
| 37.5° | 837.2  | 640.9 | 207.3 | 142.9 | 116.8 | 104.1 | 105.5 | 111.3 | 119.1 | 122.8 | 123.8 |
| 40°   | 939.0  | 710.9 | 216.6 | 141.3 | 114.5 | 100.4 | 100.7 | 105.1 | 112.0 | 117.5 | 119.4 |
| 42.5° | 1044.1 | 792.6 | 233.7 | 135.3 | 112.4 | 97.2  | 96.5  | 99.5  | 104.1 | 108.1 | 109.7 |
| 45°   | 1144.0 | 876.7 | 250.5 | 127.0 | 109.9 | 94.0  | 92.4  | 93.5  | 94.4  | 96.0  | 97.0  |
| 47.5° | 1231.3 | 935.8 | 245.7 | 119.4 | 106.4 | 90.3  | 87.5  | 87.0  | 84.3  | 84.0  | 83.8  |
| 50°   | 1291.6 | 948.7 | 218.2 | 111.7 | 101.4 | 86.1  | 81.7  | 79.0  | 74.1  | 71.8  | 72.0  |
| 52.5° | 1310.7 | 897.7 | 178.2 | 104.1 | 93.0  | 80.6  | 74.3  | 70.0  | 64.0  | 61.9  | 61.6  |
| 55°   | 1285.3 | 797.7 | 142.5 | 94.9  | 81.5  | 73.2  | 66.3  | 60.5  | 55.6  | 53.1  | 53.1  |
| 57.5° | 1223.2 | 670.5 | 112.7 | 84.0  | 69.3  | 64.9  | 58.0  | 52.2  | 48.0  | 45.5  | 45.0  |
| 60°   | 1120.2 | 532.4 | 89.1  | 71.1  | 59.1  | 55.9  | 48.7  | 45.0  | 41.3  | 38.3  | 37.6  |
| 62.5° | 963.9  | 380.0 | 70.0  | 56.3  | 49.4  | 45.7  | 41.6  | 38.8  | 34.4  | 30.2  | 29.6  |
| 65°   | 752.2  | 232.5 | 54.0  | 41.3  | 39.7  | 37.9  | 35.3  | 32.8  | 27.5  | 23.3  | 22.6  |
| 67.5° | 474.5  | 110.1 | 38.6  | 31.2  | 31.4  | 30.5  | 29.3  | 27.2  | 23.3  | 19.6  | 19.2  |
| 70°   | 208.9  | 53.3  | 25.4  | 23.8  | 23.3  | 23.3  | 24.2  | 23.6  | 19.9  | 16.4  | 15.7  |
| 72.5° | 71.1   | 28.6  | 18.9  | 18.0  | 16.9  | 16.6  | 20.3  | 19.6  | 15.9  | 12.7  | 12.0  |
| 75°   | 37.2   | 19.2  | 13.9  | 12.9  | 10.2  | 12.2  | 16.2  | 15.2  | 11.3  | 8.3   | 7.6   |
| 77.5° | 24.2   | 13.6  | 9.5   | 8.3   | 5.8   | 8.1   | 12.0  | 10.6  | 6.7   | 4.2   | 3.7   |
| 80°   | 15.2   | 9.0   | 5.5   | 3.9   | 2.8   | 4.4   | 6.5   | 4.6   | 2.5   | 0.9   | 0.7   |
| 82.5° | 8.1    | 4.6   | 2.1   | 1.4   | 1.2   | 1.4   | 1.6   | 1.2   | 0.5   | 0.0   | 0.0   |
| 85°   | 3.2    | 1.6   | 0.7   | 0.5   | 0.2   | 0.0   | 0.5   | 0.2   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.2    | 0.2   | 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)