

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: P944845

Luminaire Tested: **GALN-SB1A-722-U-T2U-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P944845  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-17)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SB1A-722-U-T2U-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(1) 70 CRI, 2200K, 350mA LIGHTSQUARE WITH 26 LEDS AND TYPE II U OPTICS  
WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 2833 lumens  
Efficiency: N/A  
Efficacy: 91.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - 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

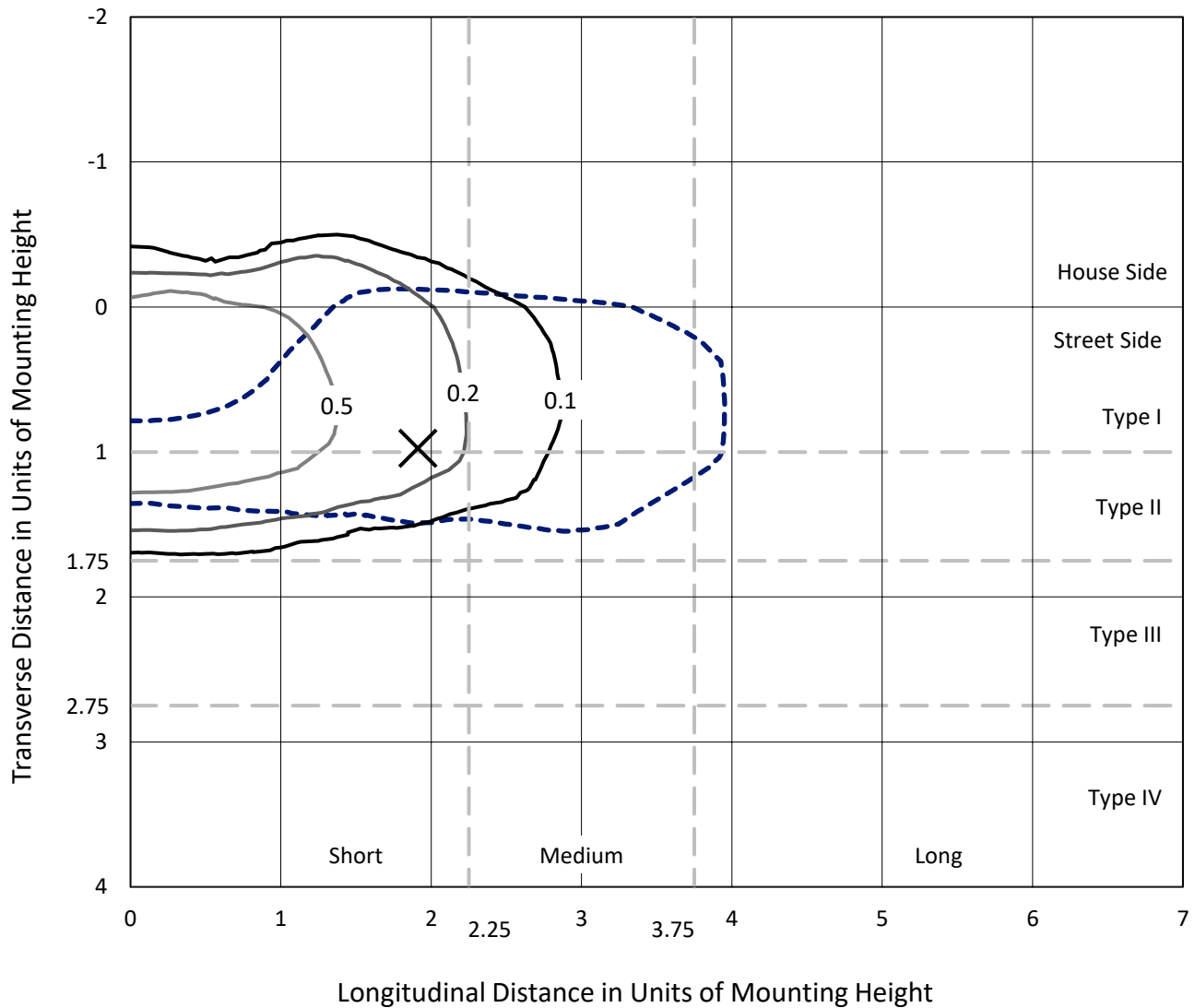


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## Iso-Footcandle Lines of Horizontal Illumination

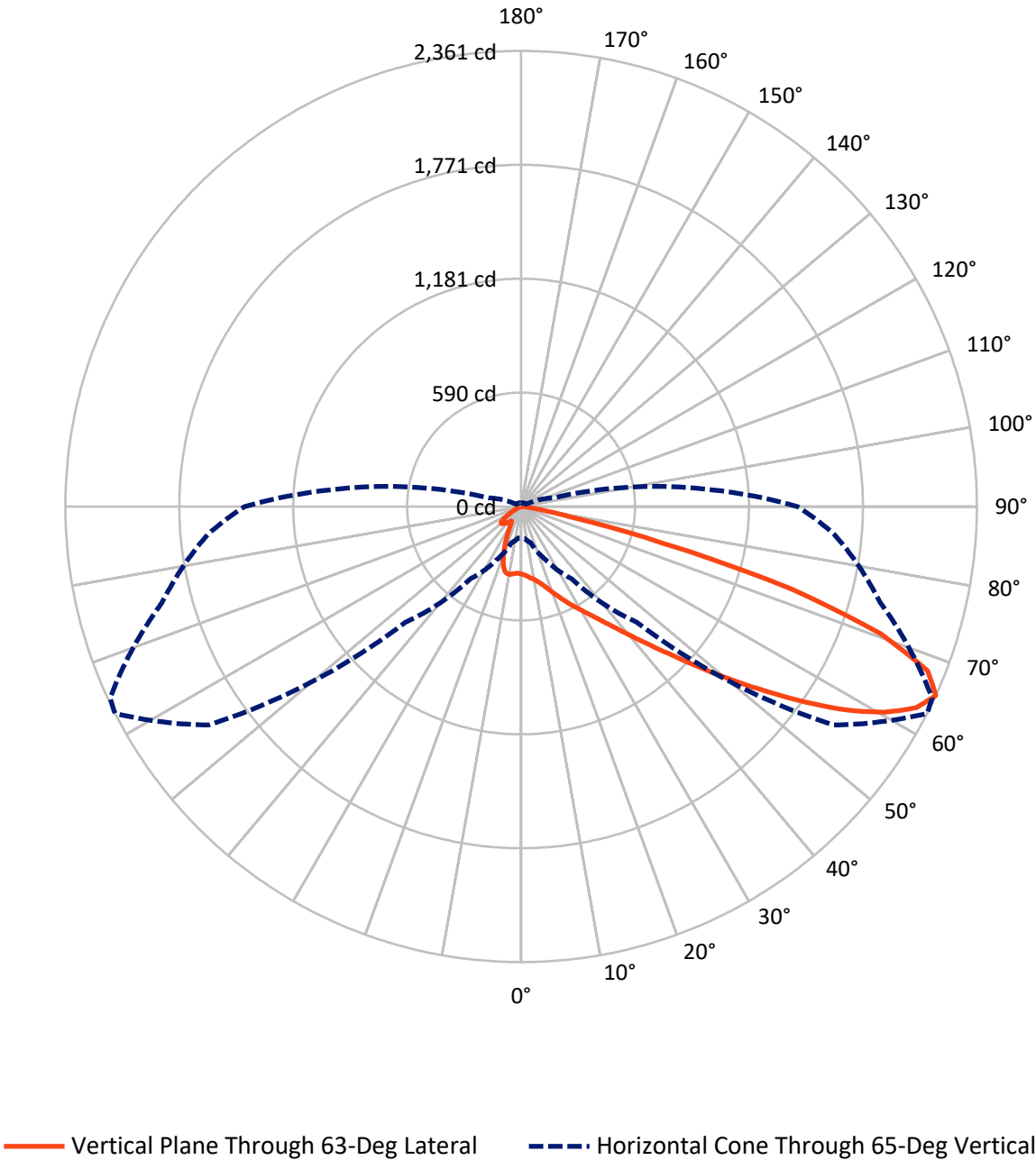
✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc  
Type II - Short - N/A

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Luminous Intensity Polar Plot



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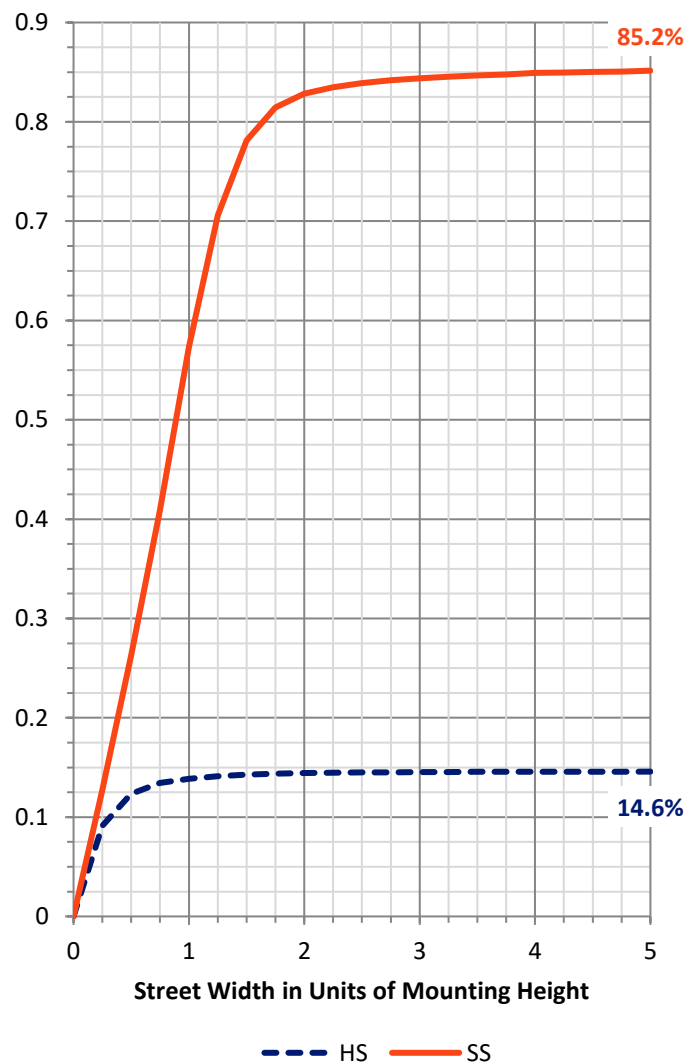
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total  |
|--------------------|-----------|----------|--------|--------|
| <b>House Side</b>  | Lumens    | 416.4    | 0.0    | 416.4  |
|                    | % Fixture | 14.7     | 0.0    | 14.7   |
| <b>Street Side</b> | Lumens    | 2416.6   | 0.0    | 2416.6 |
|                    | % Fixture | 85.3     | 0.0    | 85.3   |
| <b>Total</b>       | Lumens    | 2833.0   | 0.0    | 2833.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0  |

**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 32.9   | 1.2       |
| 10°-20°   | 91.4   | 3.2       |
| 20°-30°   | 159.2  | 5.6       |
| 30°-40°   | 286.9  | 10.1      |
| 40°-50°   | 569.0  | 20.1      |
| 50°-60°   | 775.0  | 27.4      |
| 60°-70°   | 618.6  | 21.8      |
| 70°-80°   | 279.9  | 9.9       |
| 80°-90°   | 20.1   | 0.7       |
| 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°    | 2833.0 | 100.0     |
| 0°-180°   | 2833.0 | 100.0     |

**Coefficient of Utilization**



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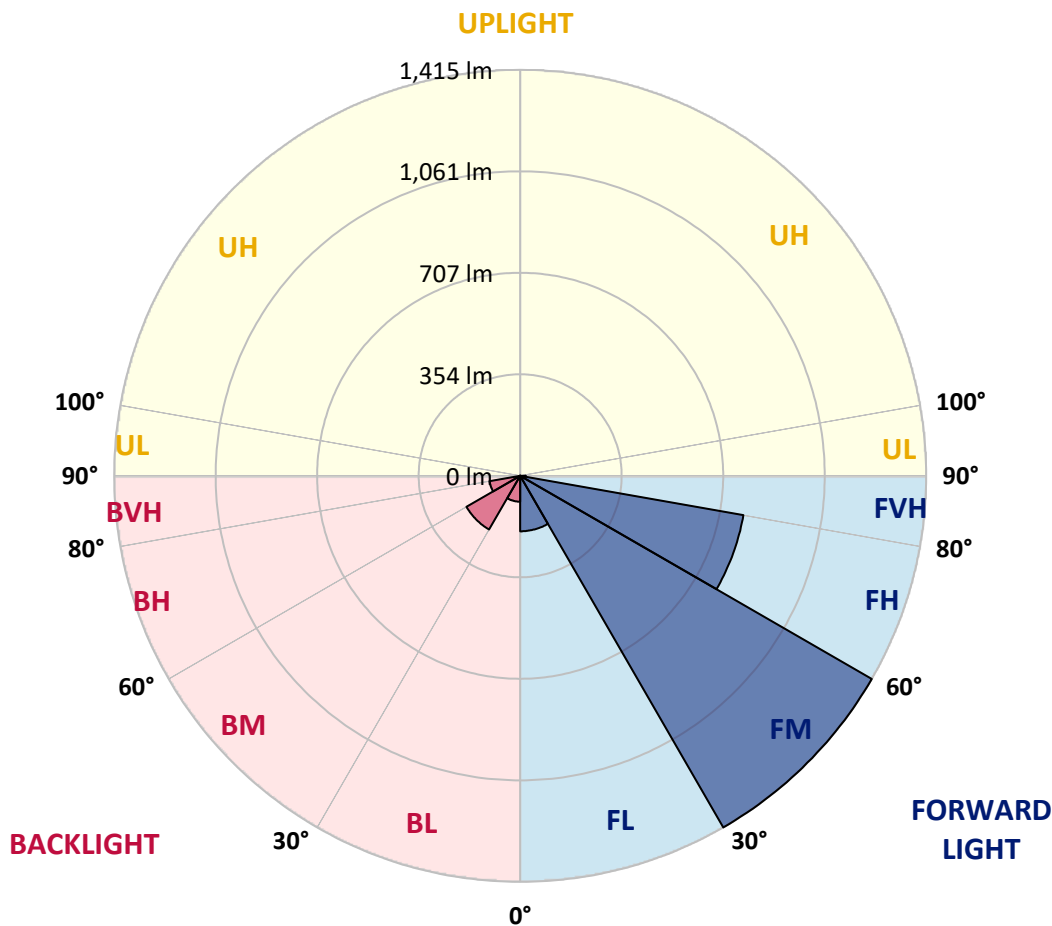
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 193.4  | 6.8       |                         |      |         |
| FM   | (30°-60°)   | 1414.7 | 49.9      |                         |      |         |
| FH   | (60°-80°)   | 789.8  | 27.9      |                         |      | G1/1800 |
| FVH  | (80°-90°)   | 18.6   | 0.7       |                         |      | G1/100  |
| BL   | (0°-30°)    | 90.1   | 3.2       | B0/110                  |      |         |
| BM   | (30°-60°)   | 216.1  | 7.6       | B0/220                  |      |         |
| BH   | (60°-80°)   | 108.7  | 3.8       | B0/110                  |      | G0/110  |
| BVH  | (80°-90°)   | 1.5    | 0.1       |                         |      | 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 II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 63°    | 65°    | 75°    | 85°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 349.6  | 349.6  | 349.6  | 349.6  | 349.6  | 349.6  | 349.6  | 349.6  | 349.6  | 349.6  | 349.6  |
| 2.5°  | 357.8  | 356.9  | 358.2  | 357.6  | 357.2  | 356.5  | 356.1  | 355.7  | 354.9  | 354.3  | 352.0  |
| 5°    | 358.8  | 358.2  | 359.6  | 360.8  | 361.9  | 363.1  | 363.7  | 364.5  | 363.7  | 362.1  | 359.8  |
| 7.5°  | 350.6  | 350.2  | 353.2  | 356.7  | 361.9  | 366.4  | 371.3  | 374.0  | 374.2  | 373.6  | 371.1  |
| 10°   | 350.0  | 349.1  | 352.0  | 356.3  | 363.1  | 371.1  | 379.7  | 385.5  | 386.3  | 388.8  | 386.1  |
| 12.5° | 359.2  | 358.2  | 362.3  | 367.0  | 374.0  | 382.4  | 392.9  | 401.1  | 402.3  | 405.8  | 403.8  |
| 15°   | 374.6  | 373.2  | 377.9  | 383.9  | 392.9  | 402.5  | 413.6  | 421.0  | 422.0  | 426.2  | 422.7  |
| 17.5° | 392.5  | 391.2  | 396.6  | 403.0  | 412.8  | 425.9  | 438.7  | 446.9  | 448.1  | 450.8  | 444.4  |
| 20°   | 415.5  | 413.8  | 418.1  | 423.9  | 434.2  | 449.8  | 465.2  | 476.9  | 476.7  | 476.7  | 466.2  |
| 22.5° | 442.2  | 439.5  | 443.2  | 447.9  | 457.6  | 476.5  | 497.0  | 510.8  | 510.8  | 505.4  | 488.0  |
| 25°   | 470.9  | 468.1  | 472.2  | 476.5  | 485.1  | 506.5  | 530.5  | 547.7  | 548.4  | 539.1  | 511.4  |
| 27.5° | 506.7  | 503.2  | 506.3  | 511.4  | 516.5  | 538.3  | 566.8  | 586.6  | 587.0  | 572.6  | 533.6  |
| 30°   | 575.7  | 565.8  | 556.0  | 550.6  | 552.9  | 574.6  | 605.0  | 627.0  | 628.9  | 609.1  | 557.8  |
| 32.5° | 702.0  | 700.1  | 665.8  | 620.9  | 597.6  | 613.5  | 647.6  | 674.1  | 675.3  | 649.8  | 589.2  |
| 35°   | 898.3  | 895.9  | 840.8  | 755.4  | 679.2  | 665.8  | 699.5  | 730.9  | 730.1  | 701.2  | 629.9  |
| 37.5° | 1132.5 | 1130.4 | 1057.7 | 943.5  | 820.1  | 744.7  | 766.3  | 799.3  | 804.1  | 766.3  | 682.5  |
| 40°   | 1332.7 | 1324.7 | 1278.7 | 1168.6 | 1007.2 | 875.7  | 861.4  | 883.3  | 888.3  | 843.5  | 749.4  |
| 42.5° | 1484.3 | 1477.5 | 1454.1 | 1385.3 | 1233.7 | 1069.4 | 973.5  | 981.9  | 987.5  | 933.8  | 826.2  |
| 45°   | 1562.9 | 1561.3 | 1570.7 | 1564.2 | 1464.5 | 1307.2 | 1133.7 | 1098.8 | 1101.0 | 1033.7 | 913.3  |
| 47.5° | 1574.0 | 1573.2 | 1615.9 | 1676.3 | 1662.9 | 1575.4 | 1339.3 | 1244.6 | 1237.0 | 1146.6 | 1008.0 |
| 50°   | 1508.5 | 1506.9 | 1588.8 | 1702.0 | 1795.4 | 1800.7 | 1572.8 | 1408.9 | 1392.2 | 1263.3 | 1106.8 |
| 52.5° | 1299.4 | 1299.0 | 1433.5 | 1621.9 | 1842.0 | 1997.9 | 1803.6 | 1589.4 | 1561.3 | 1386.9 | 1211.3 |
| 55°   | 999.8  | 1007.0 | 1161.2 | 1384.0 | 1757.0 | 2092.8 | 2010.8 | 1789.7 | 1746.7 | 1511.2 | 1307.6 |
| 57.5° | 708.3  | 718.8  | 871.2  | 1069.6 | 1493.5 | 2036.7 | 2150.9 | 1990.5 | 1944.1 | 1635.2 | 1405.2 |
| 60°   | 380.4  | 389.8  | 542.4  | 779.2  | 1111.1 | 1827.4 | 2224.8 | 2164.7 | 2120.9 | 1752.9 | 1493.3 |
| 62.5° | 226.7  | 229.8  | 292.9  | 503.0  | 751.5  | 1396.0 | 2193.4 | 2297.4 | 2261.4 | 1851.7 | 1569.9 |
| 65°   | 162.7  | 163.3  | 195.1  | 307.2  | 456.3  | 848.2  | 1973.3 | 2361.0 | 2349.9 | 1926.2 | 1626.6 |
| 67.5° | 137.0  | 136.6  | 149.9  | 204.1  | 310.9  | 424.9  | 1512.4 | 2271.1 | 2318.3 | 1973.3 | 1658.8 |
| 70°   | 117.5  | 118.1  | 133.7  | 149.5  | 233.7  | 240.5  | 751.9  | 1977.4 | 2078.0 | 1985.8 | 1656.8 |
| 72.5° | 87.5   | 89.5   | 103.9  | 136.2  | 176.4  | 165.5  | 259.6  | 1466.2 | 1648.1 | 1871.0 | 1570.9 |
| 75°   | 61.8   | 62.8   | 73.1   | 114.6  | 131.6  | 120.4  | 132.5  | 758.0  | 991.1  | 1434.4 | 1285.7 |
| 77.5° | 47.6   | 49.3   | 55.4   | 80.1   | 129.6  | 84.6   | 81.1   | 262.3  | 403.0  | 866.5  | 881.5  |
| 80°   | 25.7   | 28.8   | 40.0   | 57.9   | 91.0   | 59.8   | 40.1   | 104.5  | 136.6  | 405.2  | 339.9  |
| 82.5° | 13.3   | 14.8   | 27.9   | 41.7   | 51.8   | 52.2   | 19.9   | 43.5   | 56.3   | 125.1  | 46.6   |
| 85°   | 5.3    | 6.4    | 18.7   | 23.0   | 26.7   | 25.7   | 9.0    | 17.5   | 20.3   | 34.7   | 14.2   |
| 87.5° | 1.2    | 1.9    | 6.8    | 5.3    | 5.1    | 5.5    | 2.1    | 4.1    | 3.9    | 4.1    | 2.5    |
| 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°    | 349.6  | 349.6  | 349.6 | 349.6 | 349.6 | 349.6 | 349.6 | 349.6 | 349.6 | 349.6 | 349.6 |
| 2.5°  | 351.8  | 351.0  | 348.9 | 346.5 | 343.8 | 342.2 | 341.3 | 341.1 | 339.7 | 338.7 | 339.7 |
| 5°    | 357.6  | 356.9  | 352.8 | 347.9 | 342.6 | 338.5 | 334.6 | 331.1 | 326.1 | 325.1 | 324.7 |
| 7.5°  | 369.3  | 367.2  | 360.6 | 353.9 | 344.0 | 332.1 | 317.7 | 301.1 | 286.3 | 281.8 | 279.7 |
| 10°   | 383.8  | 380.8  | 372.4 | 360.8 | 338.7 | 306.4 | 271.5 | 239.1 | 213.4 | 206.2 | 203.5 |
| 12.5° | 400.1  | 397.6  | 386.5 | 364.8 | 316.7 | 258.0 | 204.6 | 164.5 | 139.5 | 133.3 | 131.6 |
| 15°   | 419.6  | 415.9  | 400.5 | 358.6 | 277.3 | 196.1 | 140.5 | 116.7 | 107.8 | 106.6 | 105.4 |
| 17.5° | 440.3  | 434.2  | 413.0 | 336.2 | 224.3 | 139.4 | 108.6 | 101.7 | 97.8  | 96.7  | 96.1  |
| 20°   | 459.2  | 451.4  | 420.4 | 302.3 | 167.6 | 108.6 | 97.3  | 92.8  | 89.3  | 87.9  | 87.1  |
| 22.5° | 478.1  | 467.0  | 420.4 | 256.1 | 125.7 | 96.3  | 89.3  | 85.2  | 81.1  | 79.3  | 78.3  |
| 25°   | 497.8  | 483.0  | 413.0 | 204.6 | 101.2 | 88.3  | 81.7  | 77.2  | 73.7  | 71.5  | 70.7  |
| 27.5° | 516.9  | 496.4  | 396.0 | 155.9 | 90.0  | 81.3  | 74.6  | 70.4  | 67.0  | 65.5  | 65.5  |
| 30°   | 535.0  | 509.7  | 372.3 | 118.3 | 82.8  | 74.5  | 68.2  | 64.5  | 61.2  | 59.6  | 59.8  |
| 32.5° | 559.6  | 526.4  | 346.9 | 97.1  | 76.6  | 68.0  | 62.4  | 58.9  | 55.9  | 54.8  | 54.8  |
| 35°   | 593.7  | 551.2  | 325.1 | 95.3  | 71.3  | 62.8  | 57.1  | 53.8  | 50.9  | 49.9  | 49.9  |
| 37.5° | 642.0  | 591.1  | 313.6 | 107.0 | 67.0  | 58.1  | 52.8  | 49.3  | 46.6  | 45.8  | 45.6  |
| 40°   | 701.6  | 645.3  | 319.8 | 118.7 | 64.1  | 54.0  | 48.9  | 45.4  | 43.1  | 42.1  | 41.9  |
| 42.5° | 772.4  | 712.2  | 354.3 | 127.7 | 62.2  | 50.5  | 45.2  | 41.3  | 39.8  | 39.4  | 39.4  |
| 45°   | 853.7  | 785.6  | 407.1 | 137.2 | 59.1  | 47.2  | 41.5  | 38.6  | 37.4  | 37.2  | 37.0  |
| 47.5° | 946.0  | 866.3  | 468.3 | 149.1 | 55.9  | 44.0  | 38.6  | 36.6  | 35.7  | 35.3  | 35.3  |
| 50°   | 1037.6 | 947.6  | 531.3 | 155.7 | 53.4  | 41.1  | 36.3  | 34.7  | 33.9  | 33.7  | 33.7  |
| 52.5° | 1133.5 | 1031.2 | 582.2 | 149.5 | 51.3  | 38.8  | 34.3  | 33.1  | 32.4  | 32.2  | 32.2  |
| 55°   | 1224.9 | 1098.8 | 590.9 | 126.9 | 47.0  | 36.4  | 32.2  | 31.6  | 30.6  | 30.6  | 30.4  |
| 57.5° | 1303.7 | 1132.7 | 529.0 | 93.2  | 42.7  | 32.9  | 30.0  | 29.4  | 28.6  | 28.5  | 28.3  |
| 60°   | 1376.0 | 1123.0 | 408.3 | 62.8  | 38.0  | 29.4  | 27.3  | 26.9  | 26.1  | 25.1  | 24.9  |
| 62.5° | 1416.7 | 1080.1 | 279.3 | 40.9  | 33.3  | 25.7  | 24.2  | 24.0  | 22.2  | 20.3  | 19.9  |
| 65°   | 1432.1 | 992.0  | 174.2 | 29.8  | 27.9  | 22.0  | 20.9  | 20.5  | 17.9  | 15.8  | 15.6  |
| 67.5° | 1418.7 | 847.0  | 87.9  | 23.6  | 22.0  | 18.3  | 17.2  | 17.2  | 15.4  | 13.4  | 13.3  |
| 70°   | 1364.9 | 635.0  | 37.0  | 18.9  | 17.0  | 14.0  | 14.0  | 14.8  | 13.1  | 10.9  | 10.7  |
| 72.5° | 1248.1 | 427.2  | 19.7  | 14.4  | 12.7  | 9.9   | 11.5  | 12.1  | 10.3  | 8.2   | 8.2   |
| 75°   | 992.2  | 260.6  | 13.6  | 10.7  | 8.0   | 7.0   | 8.8   | 9.2   | 7.0   | 5.5   | 5.3   |
| 77.5° | 678.6  | 149.7  | 9.2   | 6.8   | 5.1   | 4.1   | 6.0   | 5.7   | 3.7   | 2.5   | 2.7   |
| 80°   | 298.0  | 62.4   | 5.3   | 3.1   | 1.9   | 1.6   | 2.1   | 1.6   | 1.2   | 0.8   | 0.8   |
| 82.5° | 34.9   | 14.6   | 1.9   | 1.2   | 0.8   | 0.4   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   |
| 85°   | 7.2    | 1.8    | 1.0   | 0.4   | 0.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 87.5° | 1.4    | 0.4    | 0.2   | 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)