

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: P950576

Luminaire Tested: **GALN-SB5A-727-U-T2R-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P950576  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-4)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5A-727-U-T2R-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II  
ROADWAY OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 17795 lumens  
Efficiency: N/A  
Efficacy: 125.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B1 - U0 - G2  
  
Input Watts (W): 141.7  
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

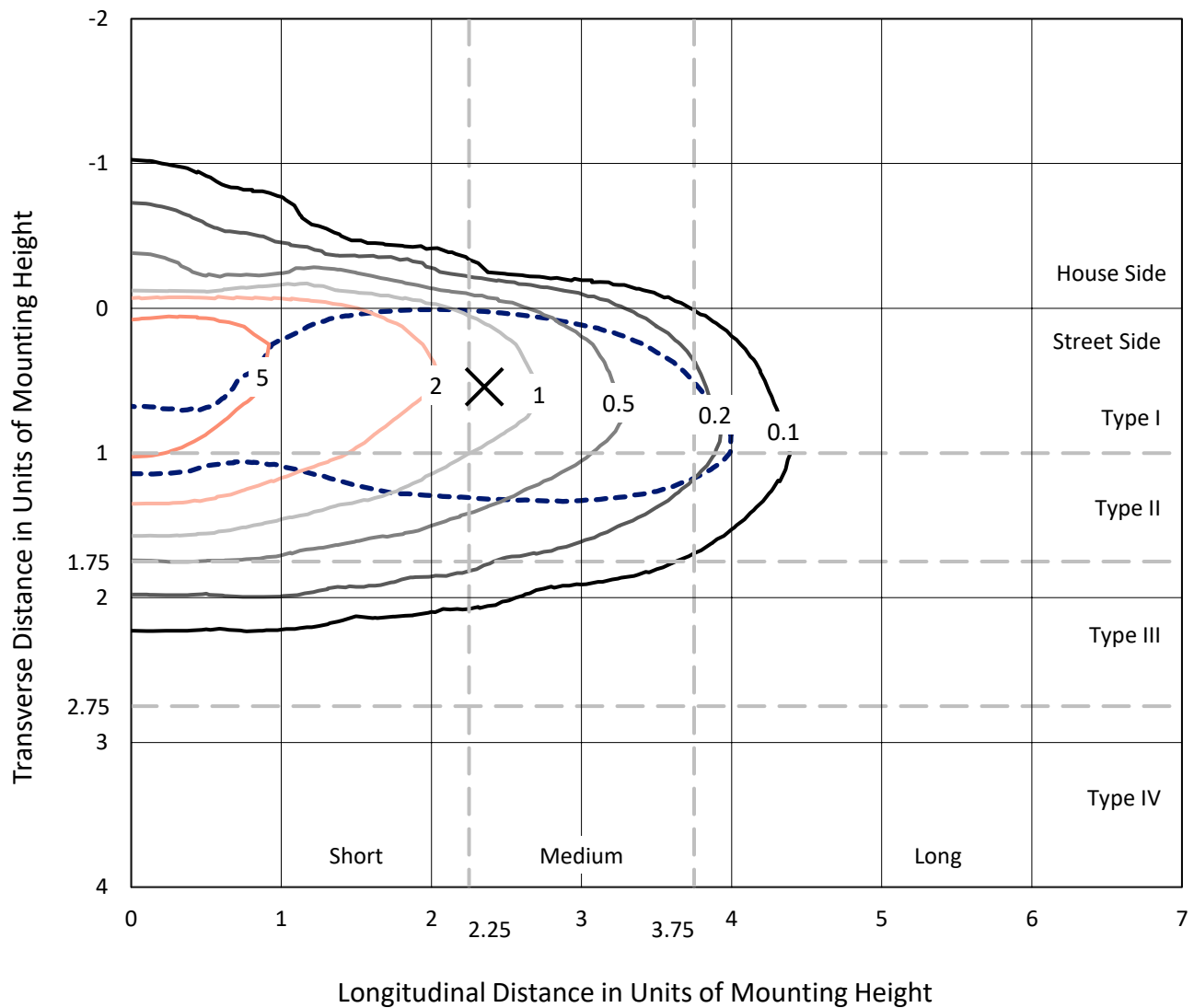


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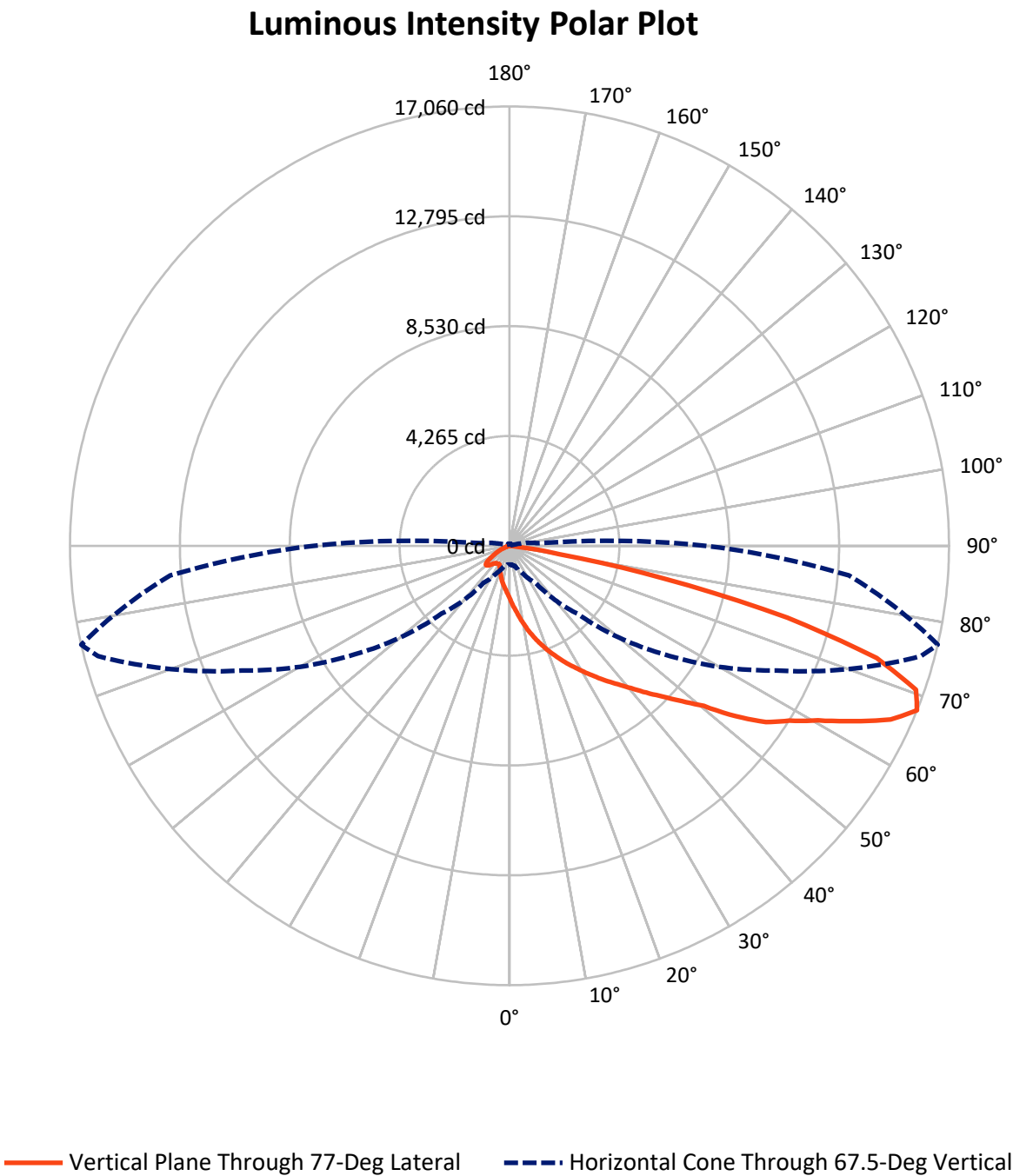
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.7 fc  
Type II - Medium - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 1309.2   | 0.0    | 1309.2  |
|                    | % Fixture | 7.4      | 0.0    | 7.4     |
| <b>Street Side</b> | Lumens    | 16485.8  | 0.0    | 16485.8 |
|                    | % Fixture | 92.6     | 0.0    | 92.6    |
| <b>Total</b>       | Lumens    | 17795.0  | 0.0    | 17795.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 209.4   | 1.2       |
| 10°-20°   | 733.4   | 4.1       |
| 20°-30°   | 1415.3  | 8.0       |
| 30°-40°   | 2457.1  | 13.8      |
| 40°-50°   | 3567.6  | 20.0      |
| 50°-60°   | 4096.9  | 23.0      |
| 60°-70°   | 3556.9  | 20.0      |
| 70°-80°   | 1675.3  | 9.4       |
| 80°-90°   | 82.9    | 0.5       |
| 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°    | 17795.0 | 100.0     |
| 0°-180°   | 17795.0 | 100.0     |

**Coefficient of Utilization**



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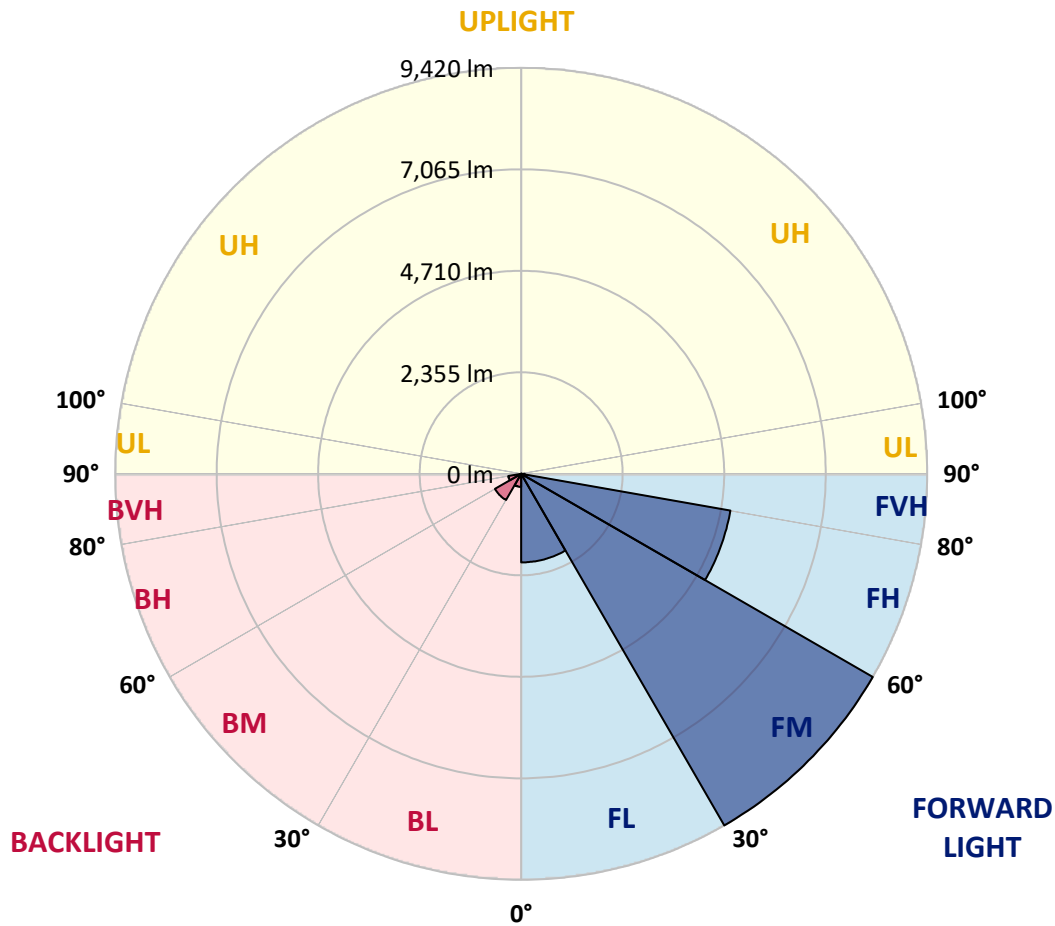
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2055.1 | 11.5      |                         |      |         |
| FM   | (30°-60°)   | 9420.2 | 52.9      |                         |      |         |
| FH   | (60°-80°)   | 4929.2 | 27.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 81.3   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 303.1  | 1.7       | B1/500                  |      |         |
| BM   | (30°-60°)   | 701.5  | 3.9       | B1/1000                 |      |         |
| BH   | (60°-80°)   | 303.1  | 1.7       | B1/500                  |      | G1/500  |
| BVH  | (80°-90°)   | 1.5    | 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-G2**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°     | 65°     | 75°     | 77°     | 85°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 2052.0 | 2052.0 | 2052.0 | 2052.0 | 2052.0 | 2052.0 | 2052.0  | 2052.0  | 2052.0  | 2052.0  | 2052.0  |
| 2.5°  | 2841.0 | 2858.7 | 2833.3 | 2784.7 | 2711.7 | 2664.2 | 2548.2  | 2438.8  | 2317.2  | 2278.6  | 2157.0  |
| 5°    | 3463.1 | 3478.6 | 3449.9 | 3396.8 | 3299.6 | 3206.8 | 3054.3  | 2825.5  | 2588.0  | 2511.7  | 2296.2  |
| 7.5°  | 3923.9 | 3932.8 | 3921.7 | 3873.1 | 3780.3 | 3675.3 | 3505.1  | 3234.4  | 2881.9  | 2797.9  | 2467.5  |
| 10°   | 4255.4 | 4284.2 | 4280.9 | 4262.1 | 4200.2 | 4115.1 | 3933.9  | 3625.6  | 3211.2  | 3102.9  | 2660.9  |
| 12.5° | 4475.3 | 4507.4 | 4526.2 | 4568.2 | 4564.8 | 4510.7 | 4351.6  | 4025.6  | 3539.4  | 3412.3  | 2878.6  |
| 15°   | 4539.4 | 4573.7 | 4645.5 | 4742.8 | 4828.9 | 4856.6 | 4745.0  | 4417.9  | 3900.7  | 3738.3  | 3101.8  |
| 17.5° | 4503.0 | 4556.0 | 4642.2 | 4795.8 | 4984.8 | 5109.6 | 5097.5  | 4796.9  | 4228.9  | 4043.3  | 3320.6  |
| 20°   | 4583.6 | 4634.5 | 4701.9 | 4831.2 | 5051.1 | 5277.6 | 5368.2  | 5159.3  | 4554.9  | 4360.4  | 3550.4  |
| 22.5° | 5030.1 | 5021.2 | 5027.8 | 5048.8 | 5180.3 | 5404.7 | 5591.4  | 5488.6  | 4877.6  | 4678.7  | 3793.5  |
| 25°   | 5737.3 | 5697.5 | 5630.1 | 5516.3 | 5483.1 | 5591.4 | 5785.9  | 5780.4  | 5217.9  | 5004.6  | 4042.2  |
| 27.5° | 6548.4 | 6541.7 | 6383.7 | 6109.7 | 5955.0 | 5913.0 | 6005.8  | 6064.4  | 5554.9  | 5327.3  | 4291.9  |
| 30°   | 7325.2 | 7342.9 | 7129.6 | 6824.6 | 6540.6 | 6376.0 | 6292.0  | 6334.0  | 5897.5  | 5675.4  | 4549.4  |
| 32.5° | 8001.5 | 8020.2 | 7788.2 | 7431.3 | 7079.9 | 6881.0 | 6704.2  | 6600.3  | 6271.0  | 6029.0  | 4832.3  |
| 35°   | 8572.8 | 8591.5 | 8325.2 | 7930.7 | 7556.1 | 7376.0 | 7176.0  | 6892.0  | 6646.7  | 6421.3  | 5147.2  |
| 37.5° | 9083.3 | 9077.8 | 8720.8 | 8323.0 | 7955.1 | 7812.5 | 7707.5  | 7251.2  | 7033.5  | 6815.8  | 5496.4  |
| 40°   | 9384.9 | 9408.2 | 9103.2 | 8664.5 | 8307.6 | 8203.7 | 8197.1  | 7696.5  | 7479.9  | 7268.8  | 5878.7  |
| 42.5° | 9473.4 | 9514.2 | 9293.2 | 8933.0 | 8609.2 | 8496.5 | 8670.0  | 8178.3  | 7999.3  | 7793.7  | 6310.8  |
| 45°   | 9314.2 | 9354.0 | 9253.5 | 9003.7 | 8814.8 | 8741.8 | 9076.6  | 8677.7  | 8554.0  | 8350.6  | 6798.1  |
| 47.5° | 8850.1 | 8899.8 | 8924.2 | 8871.1 | 8868.9 | 8942.9 | 9441.3  | 9203.7  | 9212.6  | 9004.8  | 7362.8  |
| 50°   | 7951.7 | 8035.7 | 8258.9 | 8446.8 | 8737.4 | 9102.1 | 9796.0  | 9773.9  | 9955.1  | 9776.1  | 8098.7  |
| 52.5° | 6318.5 | 6437.9 | 7207.0 | 7720.8 | 8373.9 | 9072.2 | 10186.1 | 10688.9 | 11258.0 | 10996.1 | 9136.3  |
| 55°   | 5077.6 | 5077.6 | 5703.0 | 6664.4 | 7664.4 | 8875.5 | 10356.3 | 11283.4 | 12145.3 | 12083.4 | 9866.7  |
| 57.5° | 4139.4 | 4189.1 | 4588.0 | 5437.8 | 6637.9 | 8407.0 | 10461.2 | 11656.9 | 12860.2 | 12814.9 | 10580.6 |
| 60°   | 2554.8 | 2662.0 | 3415.6 | 4254.3 | 5469.9 | 7572.7 | 10394.9 | 12034.8 | 13727.7 | 13764.1 | 11440.3 |
| 62.5° | 1438.7 | 1478.5 | 1814.4 | 3060.9 | 4253.2 | 6451.1 | 9887.7  | 12245.8 | 14837.1 | 14991.8 | 12326.5 |
| 65°   | 993.4  | 1013.3 | 1142.6 | 1905.1 | 2948.2 | 5136.1 | 8896.5  | 12114.4 | 15948.8 | 16261.5 | 13077.9 |
| 67.5° | 721.6  | 731.5  | 812.2  | 1163.6 | 1749.2 | 3723.9 | 7342.9  | 11451.3 | 16537.8 | 17060.4 | 13221.6 |
| 70°   | 554.7  | 561.4  | 619.9  | 764.7  | 1033.2 | 2298.4 | 5332.8  | 10133.0 | 16111.2 | 16735.6 | 12485.6 |
| 72.5° | 450.8  | 457.5  | 502.8  | 565.8  | 685.1  | 1359.2 | 3232.2  | 8229.1  | 14228.3 | 14902.3 | 10629.2 |
| 75°   | 380.1  | 389.0  | 429.9  | 470.7  | 537.0  | 873.0  | 1516.1  | 5730.6  | 10699.9 | 11141.9 | 7391.5  |
| 77.5° | 211.1  | 194.5  | 349.2  | 390.1  | 453.1  | 552.5  | 709.4   | 3372.5  | 5992.5  | 6115.2  | 3279.7  |
| 80°   | 131.5  | 135.9  | 277.4  | 313.8  | 348.1  | 278.5  | 324.9   | 1298.4  | 2077.4  | 1973.6  | 635.4   |
| 82.5° | 7.7    | 17.7   | 213.3  | 226.5  | 238.7  | 119.3  | 122.7   | 440.9   | 500.6   | 459.7   | 112.7   |
| 85°   | 0.0    | 0.0    | 97.2   | 78.5   | 82.9   | 34.3   | 35.4    | 102.8   | 67.4    | 72.9    | 22.1    |
| 87.5° | 0.0    | 0.0    | 0.0    | 2.2    | 0.0    | 3.3    | 6.6     | 8.8     | 3.3     | 4.4     | 7.7     |
| 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°    | 2052.0 | 2052.0 | 2052.0 | 2052.0 | 2052.0 | 2052.0 | 2052.0 | 2052.0 | 2052.0 | 2052.0 | 2052.0 |
| 2.5°  | 2079.7 | 2002.3 | 1845.4 | 1691.8 | 1566.9 | 1450.9 | 1368.0 | 1289.6 | 1249.8 | 1247.6 | 1245.4 |
| 5°    | 2142.6 | 1980.2 | 1666.4 | 1389.0 | 1165.8 | 986.8  | 870.8  | 787.9  | 745.9  | 731.5  | 729.3  |
| 7.5°  | 2231.0 | 1986.8 | 1509.5 | 1123.8 | 860.8  | 707.2  | 640.9  | 614.4  | 605.6  | 595.6  | 593.4  |
| 10°   | 2342.6 | 2002.3 | 1369.1 | 905.0  | 678.5  | 601.1  | 574.6  | 563.6  | 556.9  | 550.3  | 548.1  |
| 12.5° | 2467.5 | 2016.7 | 1229.9 | 751.4  | 596.7  | 556.9  | 538.1  | 524.9  | 516.0  | 508.3  | 506.1  |
| 15°   | 2589.1 | 2025.5 | 1085.1 | 644.2  | 554.7  | 522.7  | 502.8  | 488.4  | 476.3  | 467.4  | 466.3  |
| 17.5° | 2709.5 | 2037.7 | 949.2  | 580.1  | 520.5  | 488.4  | 468.5  | 450.8  | 440.9  | 431.0  | 429.9  |
| 20°   | 2843.2 | 2035.4 | 821.0  | 534.8  | 486.2  | 454.2  | 433.2  | 416.6  | 406.6  | 395.6  | 394.5  |
| 22.5° | 2967.0 | 2024.4 | 708.3  | 496.2  | 450.8  | 419.9  | 396.7  | 380.1  | 370.2  | 361.3  | 360.2  |
| 25°   | 3109.5 | 2015.6 | 614.4  | 460.8  | 417.7  | 386.8  | 361.3  | 345.9  | 334.8  | 327.1  | 326.0  |
| 27.5° | 3246.6 | 2002.3 | 545.9  | 428.7  | 385.7  | 355.8  | 331.5  | 313.8  | 303.9  | 298.4  | 298.4  |
| 30°   | 3381.4 | 1999.0 | 520.5  | 397.8  | 356.9  | 327.1  | 302.8  | 286.2  | 278.5  | 276.3  | 275.2  |
| 32.5° | 3543.8 | 2007.8 | 531.5  | 386.8  | 330.4  | 300.6  | 277.4  | 265.2  | 257.5  | 257.5  | 257.5  |
| 35°   | 3717.3 | 2005.6 | 548.1  | 396.7  | 312.7  | 274.0  | 256.4  | 248.6  | 240.9  | 240.9  | 240.9  |
| 37.5° | 3935.0 | 2008.9 | 561.4  | 413.3  | 306.1  | 251.9  | 242.0  | 232.1  | 227.6  | 227.6  | 227.6  |
| 40°   | 4259.9 | 2118.3 | 554.7  | 427.6  | 303.9  | 236.5  | 216.6  | 213.3  | 210.0  | 210.0  | 210.0  |
| 42.5° | 4657.7 | 2355.9 | 563.6  | 428.7  | 302.8  | 225.4  | 198.9  | 205.5  | 197.8  | 196.7  | 195.6  |
| 45°   | 5093.0 | 2615.6 | 619.9  | 405.5  | 301.7  | 219.9  | 190.1  | 197.8  | 185.6  | 185.6  | 185.6  |
| 47.5° | 5525.1 | 2873.1 | 677.4  | 372.4  | 298.4  | 218.8  | 182.3  | 177.9  | 174.6  | 175.7  | 175.7  |
| 50°   | 6120.7 | 3083.0 | 699.5  | 327.1  | 290.6  | 216.6  | 168.0  | 169.1  | 166.9  | 169.1  | 169.1  |
| 52.5° | 6769.4 | 3127.2 | 673.0  | 276.3  | 268.5  | 210.0  | 158.0  | 162.4  | 161.3  | 163.5  | 163.5  |
| 55°   | 7173.8 | 3079.7 | 555.8  | 229.8  | 234.3  | 183.4  | 148.1  | 156.9  | 156.9  | 156.9  | 156.9  |
| 57.5° | 7591.5 | 2877.5 | 394.5  | 186.7  | 194.5  | 150.3  | 139.2  | 151.4  | 150.3  | 149.2  | 149.2  |
| 60°   | 7892.1 | 2550.4 | 259.7  | 153.6  | 154.7  | 123.8  | 129.3  | 142.5  | 141.4  | 135.9  | 135.9  |
| 62.5° | 8116.4 | 2189.0 | 166.9  | 130.4  | 118.2  | 111.6  | 118.2  | 129.3  | 124.9  | 112.7  | 110.5  |
| 65°   | 8091.0 | 1688.5 | 128.2  | 111.6  | 97.2   | 97.2   | 102.8  | 112.7  | 99.5   | 79.6   | 77.4   |
| 67.5° | 7619.1 | 1142.6 | 106.1  | 93.9   | 81.8   | 80.7   | 85.1   | 93.9   | 85.1   | 67.4   | 65.2   |
| 70°   | 6776.0 | 747.0  | 85.1   | 72.9   | 65.2   | 59.7   | 68.5   | 80.7   | 71.8   | 54.1   | 51.9   |
| 72.5° | 5499.7 | 455.3  | 64.1   | 53.0   | 47.5   | 38.7   | 54.1   | 66.3   | 57.5   | 39.8   | 37.6   |
| 75°   | 3558.2 | 232.1  | 44.2   | 34.3   | 25.4   | 23.2   | 39.8   | 49.7   | 39.8   | 24.3   | 21.0   |
| 77.5° | 1361.4 | 97.2   | 24.3   | 15.5   | 13.3   | 11.1   | 22.1   | 29.8   | 16.6   | 5.5    | 4.4    |
| 80°   | 261.9  | 40.9   | 12.2   | 7.7    | 6.6    | 4.4    | 3.3    | 2.2    | 0.0    | 0.0    | 0.0    |
| 82.5° | 45.3   | 13.3   | 4.4    | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 15.5   | 2.2    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 5.5    | 0.0    | 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)