

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: P953782

Luminaire Tested: **GALN-SB7B-727-U-SL2**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P953782  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-10)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB7B-727-U-SL2  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(7) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE II SPILL  
LIGHT ELIMINATOR OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 36919 lumens  
Efficiency: N/A  
Efficacy: 143.8 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 256.7  
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

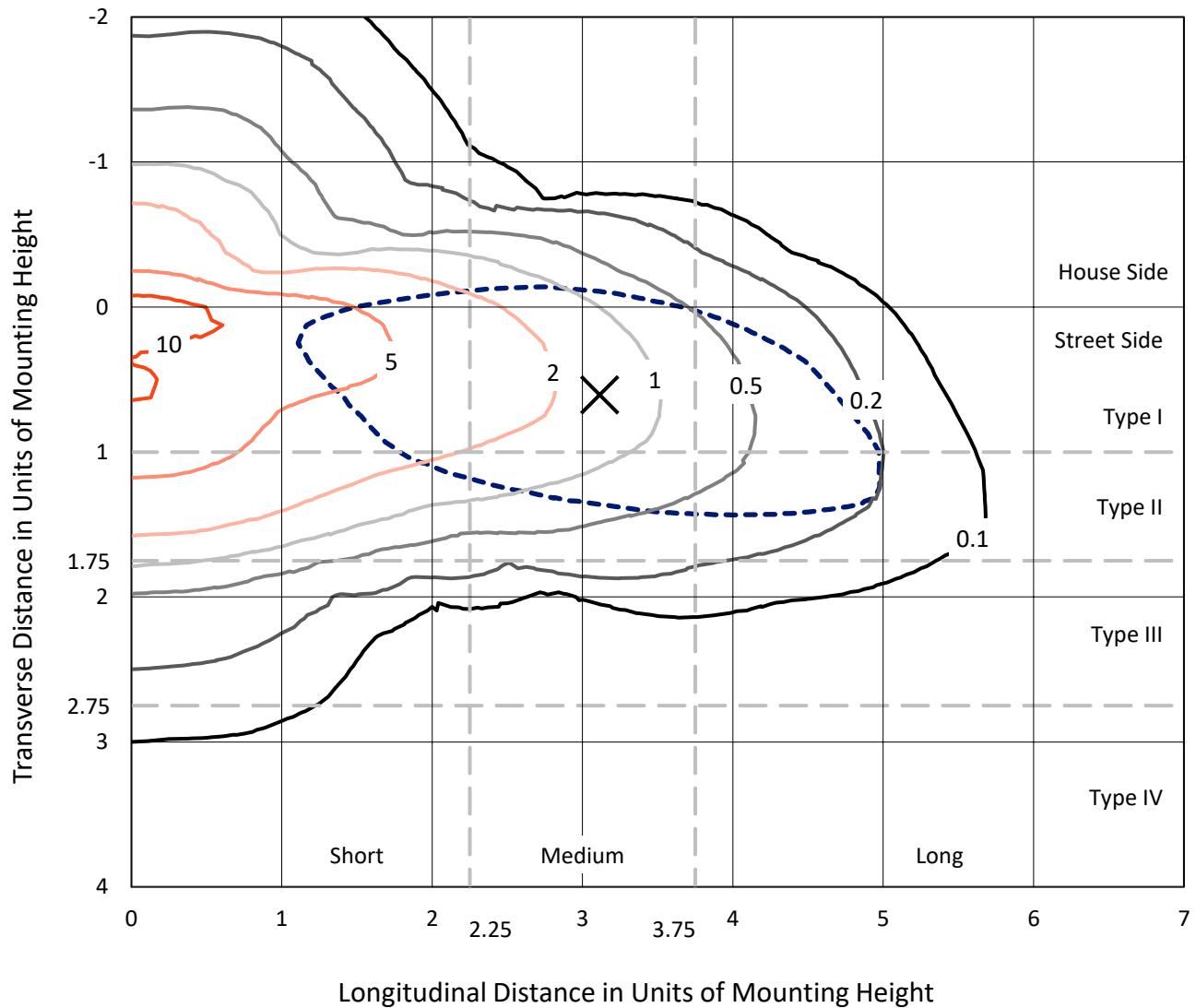


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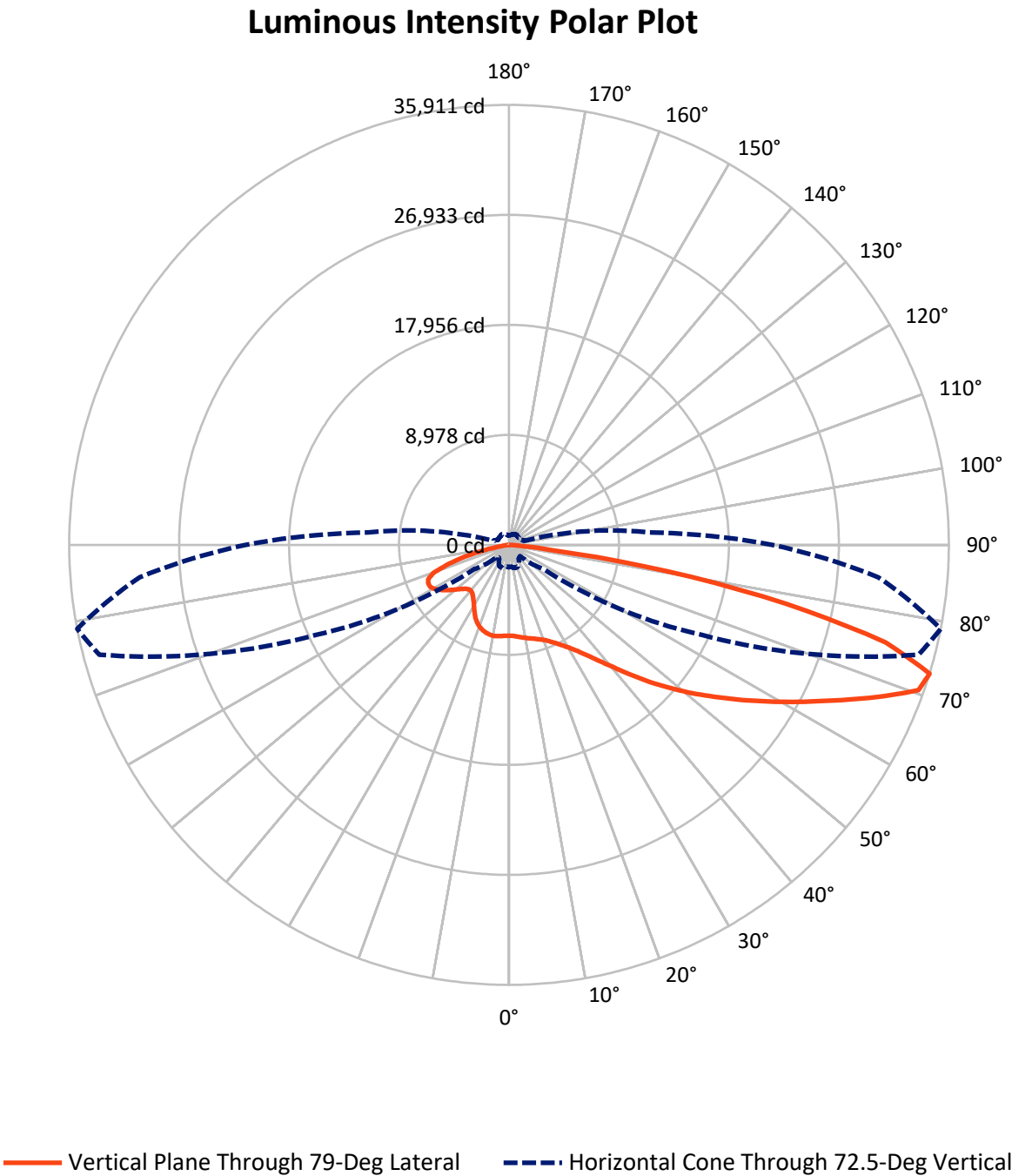
## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.9 fc  
Type II - Medium - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 8124.2   | 0.0    | 8124.2  |
|                    | % Fixture | 22.0     | 0.0    | 22.0    |
| <b>Street Side</b> | Lumens    | 28794.8  | 0.0    | 28794.8 |
|                    | % Fixture | 78.0     | 0.0    | 78.0    |
| <b>Total</b>       | Lumens    | 36919.0  | 0.0    | 36919.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 672.7   | 1.8       |
| 10°-20°   | 1758.8  | 4.8       |
| 20°-30°   | 2838.0  | 7.7       |
| 30°-40°   | 4259.5  | 11.5      |
| 40°-50°   | 6042.3  | 16.4      |
| 50°-60°   | 7630.6  | 20.7      |
| 60°-70°   | 7749.9  | 21.0      |
| 70°-80°   | 5281.9  | 14.3      |
| 80°-90°   | 685.3   | 1.9       |
| 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°    | 36919.0 | 100.0     |
| 0°-180°   | 36919.0 | 100.0     |

**Coefficient of Utilization**



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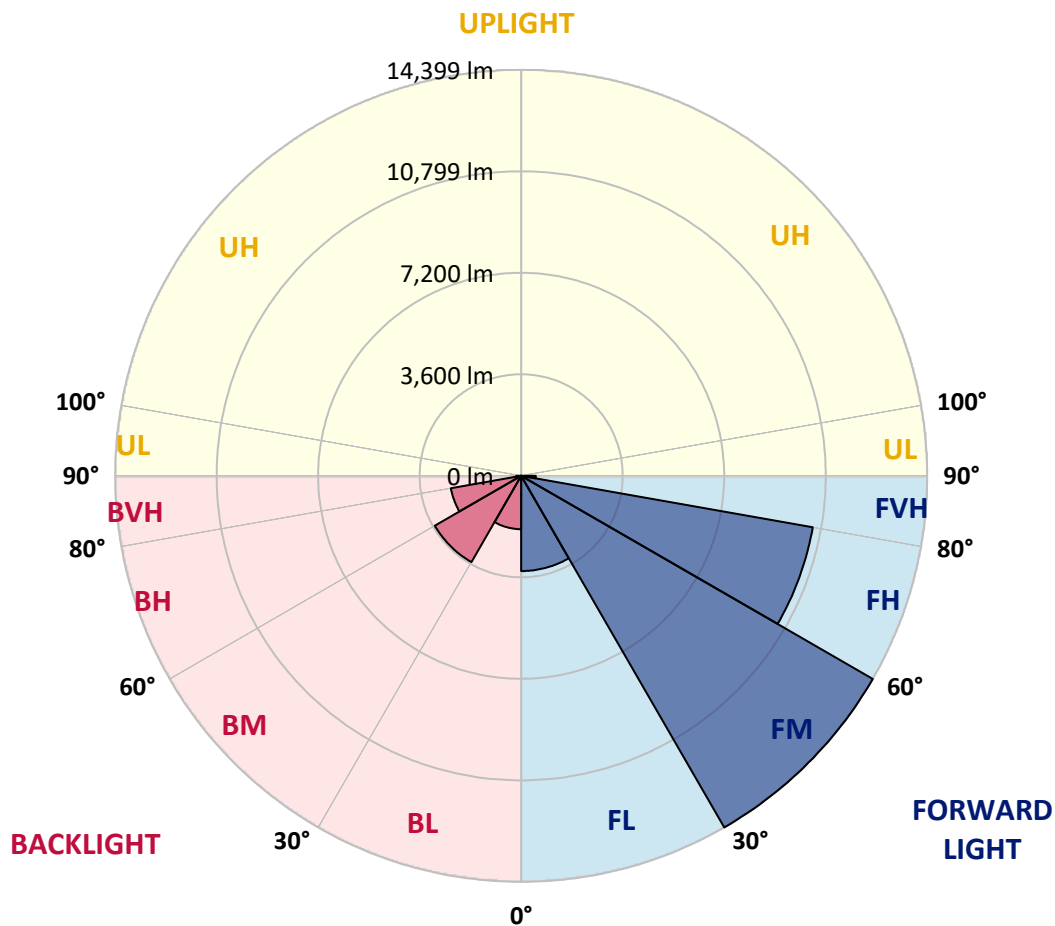
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3377.2  | 9.1       |                         |      |          |
| FM   | (30°-60°)   | 14399.2 | 39.0      |                         |      |          |
| FH   | (60°-80°)   | 10502.2 | 28.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 516.2   | 1.4       |                         |      | G4/750   |
| BL   | (0°-30°)    | 1892.4  | 5.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 3533.2  | 9.6       | B3/5000                 |      |          |
| BH   | (60°-80°)   | 2529.6  | 6.9       | B4/5000                 |      | G4/5000  |
| BVH  | (80°-90°)   | 169.1   | 0.5       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B4-U0-G4**

Type II Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 79°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 7411.1  | 7411.1  | 7411.1  | 7411.1  | 7411.1  | 7411.1  | 7411.1  | 7411.1  | 7411.1  | 7411.1  | 7411.1  |
| 2.5°  | 7415.0  | 7379.9  | 7401.4  | 7393.6  | 7403.3  | 7415.0  | 7418.9  | 7424.8  | 7444.3  | 7442.4  | 7440.4  |
| 5°    | 7399.4  | 7364.3  | 7393.6  | 7383.8  | 7409.2  | 7436.5  | 7460.0  | 7481.4  | 7512.7  | 7526.4  | 7506.8  |
| 7.5°  | 7366.2  | 7342.8  | 7372.1  | 7401.4  | 7448.2  | 7489.3  | 7522.5  | 7571.3  | 7616.2  | 7624.0  | 7637.7  |
| 10°   | 7172.9  | 7155.3  | 7223.7  | 7299.8  | 7428.7  | 7540.0  | 7612.3  | 7668.9  | 7717.7  | 7725.6  | 7745.1  |
| 12.5° | 6971.7  | 6950.3  | 7026.4  | 7129.9  | 7338.9  | 7540.0  | 7692.4  | 7766.6  | 7809.5  | 7834.9  | 7864.2  |
| 15°   | 6938.5  | 6921.0  | 6963.9  | 7053.8  | 7227.6  | 7487.3  | 7747.0  | 7883.7  | 7920.8  | 7950.1  | 7961.8  |
| 17.5° | 7098.7  | 7065.5  | 7083.1  | 7114.3  | 7215.9  | 7438.5  | 7790.0  | 8016.5  | 8073.2  | 8104.4  | 8104.4  |
| 20°   | 7469.7  | 7422.9  | 7395.5  | 7333.0  | 7315.4  | 7446.3  | 7786.1  | 8176.7  | 8250.9  | 8289.9  | 8299.7  |
| 22.5° | 7963.8  | 7932.6  | 7874.0  | 7715.8  | 7543.9  | 7542.0  | 7860.3  | 8381.7  | 8520.4  | 8557.5  | 8534.0  |
| 25°   | 8561.4  | 8514.5  | 8440.3  | 8225.5  | 7895.4  | 7731.4  | 7985.3  | 8643.4  | 8875.8  | 8885.6  | 8817.2  |
| 27.5° | 9248.8  | 9178.5  | 9076.9  | 8793.8  | 8348.5  | 8028.2  | 8176.7  | 8944.1  | 9283.9  | 9280.0  | 9139.4  |
| 30°   | 9973.3  | 9903.0  | 9795.6  | 9451.9  | 8891.4  | 8428.6  | 8442.3  | 9268.3  | 9768.3  | 9746.8  | 9506.6  |
| 32.5° | 10502.5 | 10449.8 | 10428.3 | 10162.7 | 9516.3  | 8901.2  | 8746.9  | 9627.6  | 10365.8 | 10346.3 | 10010.4 |
| 35°   | 10908.7 | 10840.4 | 10865.8 | 10731.0 | 10197.9 | 9430.4  | 9119.9  | 10055.3 | 11092.3 | 11090.3 | 10672.4 |
| 37.5° | 11311.0 | 11250.5 | 11272.0 | 11182.1 | 10828.7 | 10102.2 | 9574.9  | 10578.7 | 11992.6 | 12035.5 | 11473.1 |
| 40°   | 11678.2 | 11613.7 | 11699.6 | 11615.7 | 11318.8 | 10816.9 | 10092.4 | 11170.4 | 13035.4 | 13117.4 | 12441.7 |
| 42.5° | 11898.8 | 11848.1 | 11990.6 | 11992.6 | 11744.6 | 11420.4 | 10660.7 | 11822.7 | 14242.3 | 14425.8 | 13633.0 |
| 45°   | 11975.0 | 11957.4 | 12172.2 | 12217.1 | 12121.5 | 11769.9 | 11172.4 | 12533.5 | 15542.9 | 15871.0 | 14990.2 |
| 47.5° | 11893.0 | 11859.8 | 12156.6 | 12322.6 | 12398.8 | 11934.0 | 11596.1 | 13302.9 | 16870.8 | 17351.2 | 16470.5 |
| 50°   | 11479.0 | 11414.5 | 11855.9 | 12205.4 | 12476.9 | 12041.4 | 12023.8 | 14191.5 | 18380.4 | 18905.7 | 17958.6 |
| 52.5° | 10734.9 | 10686.1 | 11188.0 | 11795.3 | 12305.0 | 12094.1 | 12504.2 | 15162.1 | 19813.8 | 20493.4 | 19483.8 |
| 55°   | 9783.9  | 9719.4  | 10272.1 | 11065.0 | 11877.3 | 12076.5 | 12984.6 | 16247.9 | 21505.0 | 22194.4 | 21059.7 |
| 57.5° | 8276.3  | 8147.4  | 8846.5  | 9783.9  | 11180.2 | 12055.1 | 13484.6 | 17327.8 | 23223.5 | 24049.6 | 22741.2 |
| 60°   | 6077.3  | 5885.9  | 6743.3  | 7854.4  | 9817.1  | 11846.1 | 14103.6 | 18538.6 | 25285.7 | 26029.8 | 24576.9 |
| 62.5° | 3538.6  | 3427.3  | 3987.8  | 5024.7  | 7399.4  | 10615.8 | 14451.2 | 19946.6 | 27312.8 | 28094.0 | 26381.3 |
| 65°   | 2747.7  | 2716.4  | 2765.3  | 2845.3  | 4118.6  | 7948.2  | 13379.1 | 21319.5 | 29890.6 | 30437.4 | 28261.9 |
| 67.5° | 2513.3  | 2489.9  | 2511.4  | 2361.0  | 2089.6  | 4427.2  | 10584.6 | 21667.1 | 32652.0 | 32984.0 | 29908.2 |
| 70°   | 2234.1  | 2206.7  | 2277.0  | 2148.2  | 1644.3  | 2013.4  | 6838.9  | 20405.5 | 34848.9 | 35471.9 | 31160.0 |
| 72.5° | 1820.1  | 1788.8  | 1952.9  | 1894.3  | 1384.6  | 1292.8  | 3435.1  | 17407.9 | 34618.5 | 35911.3 | 30263.6 |
| 75°   | 1398.3  | 1380.7  | 1576.0  | 1624.8  | 1128.8  | 1017.4  | 1648.2  | 12939.7 | 30464.8 | 31767.3 | 26082.5 |
| 77.5° | 1085.8  | 1072.1  | 1171.7  | 1349.4  | 910.0   | 789.0   | 1013.5  | 8207.9  | 22957.9 | 23186.4 | 17974.2 |
| 80°   | 814.3   | 775.3   | 867.1   | 1044.8  | 708.9   | 576.1   | 687.4   | 4786.5  | 14511.8 | 13154.5 | 7823.2  |
| 82.5° | 509.7   | 490.2   | 566.3   | 697.2   | 499.9   | 396.4   | 447.2   | 2644.2  | 5815.6  | 3425.3  | 1509.6  |
| 85°   | 291.0   | 283.2   | 308.6   | 398.4   | 271.4   | 228.5   | 255.8   | 1167.8  | 1062.4  | 730.4   | 455.0   |
| 87.5° | 117.2   | 113.3   | 140.6   | 177.7   | 99.6    | 84.0    | 89.8    | 281.2   | 234.3   | 216.8   | 150.4   |
| 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°    | 7411.1  | 7411.1  | 7411.1 | 7411.1 | 7411.1 | 7411.1 | 7411.1 | 7411.1 | 7411.1 | 7411.1 | 7411.1 |
| 2.5°  | 7432.6  | 7432.6  | 7405.3 | 7362.3 | 7313.5 | 7282.2 | 7231.5 | 7217.8 | 7165.1 | 7149.5 | 7174.8 |
| 5°    | 7522.5  | 7506.8  | 7422.9 | 7301.8 | 7135.8 | 6983.5 | 6815.5 | 6710.1 | 6561.6 | 6508.9 | 6548.0 |
| 7.5°  | 7635.7  | 7592.8  | 7448.2 | 7182.7 | 6835.0 | 6493.3 | 6137.9 | 5868.4 | 5610.6 | 5518.8 | 5530.5 |
| 10°   | 7739.2  | 7678.7  | 7432.6 | 6967.8 | 6366.4 | 5774.6 | 5208.3 | 4811.9 | 4511.1 | 4388.1 | 4415.4 |
| 12.5° | 7842.7  | 7731.4  | 7329.1 | 6610.5 | 5700.4 | 4897.8 | 4294.4 | 3985.8 | 3800.3 | 3651.9 | 3700.7 |
| 15°   | 7940.4  | 7784.1  | 7169.0 | 6132.0 | 4970.1 | 4155.7 | 3710.5 | 3464.4 | 3316.0 | 3218.3 | 3235.9 |
| 17.5° | 8053.6  | 7829.1  | 6928.8 | 5524.7 | 4274.8 | 3642.1 | 3278.9 | 3130.4 | 3101.2 | 3089.4 | 3097.3 |
| 20°   | 8211.8  | 7870.1  | 6612.4 | 4845.1 | 3763.2 | 3232.0 | 3044.5 | 3030.9 | 3028.9 | 3023.0 | 3042.6 |
| 22.5° | 8381.7  | 7918.9  | 6194.5 | 4228.0 | 3327.7 | 2976.2 | 2943.0 | 2915.6 | 2898.1 | 2896.1 | 2917.6 |
| 25°   | 8582.9  | 7934.5  | 5671.1 | 3722.2 | 2956.6 | 2855.1 | 2816.0 | 2775.0 | 2763.3 | 2763.3 | 2775.0 |
| 27.5° | 8778.1  | 7881.8  | 5061.8 | 3282.8 | 2747.7 | 2743.8 | 2693.0 | 2679.3 | 2677.4 | 2683.2 | 2698.9 |
| 30°   | 8973.4  | 7782.2  | 4456.4 | 2876.6 | 2626.6 | 2626.6 | 2609.0 | 2618.8 | 2626.6 | 2646.1 | 2659.8 |
| 32.5° | 9237.1  | 7676.7  | 3950.7 | 2575.8 | 2521.2 | 2501.6 | 2519.2 | 2538.7 | 2546.5 | 2571.9 | 2593.4 |
| 35°   | 9623.7  | 7602.5  | 3548.4 | 2411.8 | 2411.8 | 2386.4 | 2396.2 | 2392.3 | 2374.7 | 2363.0 | 2390.3 |
| 37.5° | 10135.4 | 7598.6  | 3216.4 | 2335.6 | 2320.0 | 2316.1 | 2318.1 | 2292.7 | 2224.3 | 2142.3 | 2144.3 |
| 40°   | 10750.5 | 7704.1  | 2960.5 | 2282.9 | 2271.2 | 2294.6 | 2282.9 | 2214.6 | 2027.1 | 1884.5 | 1880.6 |
| 42.5° | 11576.6 | 8004.8  | 2796.5 | 2218.5 | 2253.6 | 2282.9 | 2236.0 | 1999.7 | 1872.8 | 1777.1 | 1773.2 |
| 45°   | 12549.1 | 8493.0  | 2712.5 | 2150.1 | 2220.4 | 2255.6 | 2029.0 | 1925.5 | 1824.0 | 1708.8 | 1700.9 |
| 47.5° | 13650.6 | 9108.2  | 2693.0 | 2085.7 | 2146.2 | 2167.7 | 1941.2 | 1894.3 | 1779.1 | 1654.1 | 1644.3 |
| 50°   | 14849.6 | 9836.6  | 2745.7 | 2009.5 | 2038.8 | 1964.6 | 1911.9 | 1868.9 | 1749.8 | 1626.7 | 1613.1 |
| 52.5° | 16089.7 | 10639.2 | 2851.2 | 1906.0 | 1931.4 | 1849.4 | 1900.1 | 1863.0 | 1732.2 | 1566.2 | 1554.5 |
| 55°   | 17308.3 | 11447.7 | 2952.7 | 1784.9 | 1822.0 | 1745.9 | 1866.9 | 1839.6 | 1652.1 | 1464.7 | 1454.9 |
| 57.5° | 18546.4 | 12252.3 | 3052.3 | 1677.5 | 1716.6 | 1646.3 | 1814.2 | 1777.1 | 1562.3 | 1370.9 | 1367.0 |
| 60°   | 19833.3 | 13033.4 | 3099.2 | 1574.0 | 1601.4 | 1554.5 | 1734.1 | 1669.7 | 1460.7 | 1275.2 | 1269.4 |
| 62.5° | 21038.3 | 13683.8 | 3023.0 | 1470.5 | 1488.1 | 1468.6 | 1628.7 | 1542.8 | 1359.2 | 1167.8 | 1165.9 |
| 65°   | 22247.1 | 14070.4 | 2788.7 | 1369.0 | 1372.9 | 1363.1 | 1480.3 | 1406.1 | 1240.1 | 1074.1 | 1062.4 |
| 67.5° | 23342.6 | 14287.2 | 2415.7 | 1259.6 | 1249.8 | 1245.9 | 1341.6 | 1257.6 | 1124.9 | 980.3  | 968.6  |
| 70°   | 23575.0 | 13736.5 | 1845.5 | 1130.7 | 1130.7 | 1120.9 | 1189.3 | 1103.4 | 997.9  | 880.7  | 876.8  |
| 72.5° | 21532.3 | 11555.1 | 1310.4 | 984.2  | 999.9  | 980.3  | 1037.0 | 964.7  | 869.0  | 790.9  | 767.5  |
| 75°   | 17363.0 | 8473.5  | 953.0  | 833.9  | 861.2  | 828.0  | 880.7  | 830.0  | 747.9  | 746.0  | 671.8  |
| 77.5° | 11930.1 | 5239.5  | 691.3  | 687.4  | 706.9  | 664.0  | 724.5  | 697.2  | 623.0  | 589.8  | 552.7  |
| 80°   | 5091.1  | 2089.6  | 503.8  | 531.2  | 531.2  | 492.1  | 562.4  | 570.2  | 505.8  | 490.2  | 490.2  |
| 82.5° | 1013.5  | 593.7   | 353.5  | 365.2  | 343.7  | 332.0  | 398.4  | 441.3  | 609.3  | 677.6  | 679.6  |
| 85°   | 304.6   | 218.7   | 212.9  | 199.2  | 175.8  | 177.7  | 234.3  | 443.3  | 546.8  | 312.5  | 269.5  |
| 87.5° | 84.0    | 54.7    | 56.6   | 44.9   | 37.1   | 48.8   | 80.1   | 335.9  | 183.6  | 78.1   | 66.4   |
| 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)