

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: P955916

Luminaire Tested: **GALN-SB8D-722-U-T4W-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P955916  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8D-722-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE IV WIDE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 52360 lumens  
Efficiency: N/A  
Efficacy: 89.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B3 - U0 - G5  
  
Input Watts (W): 584.9  
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



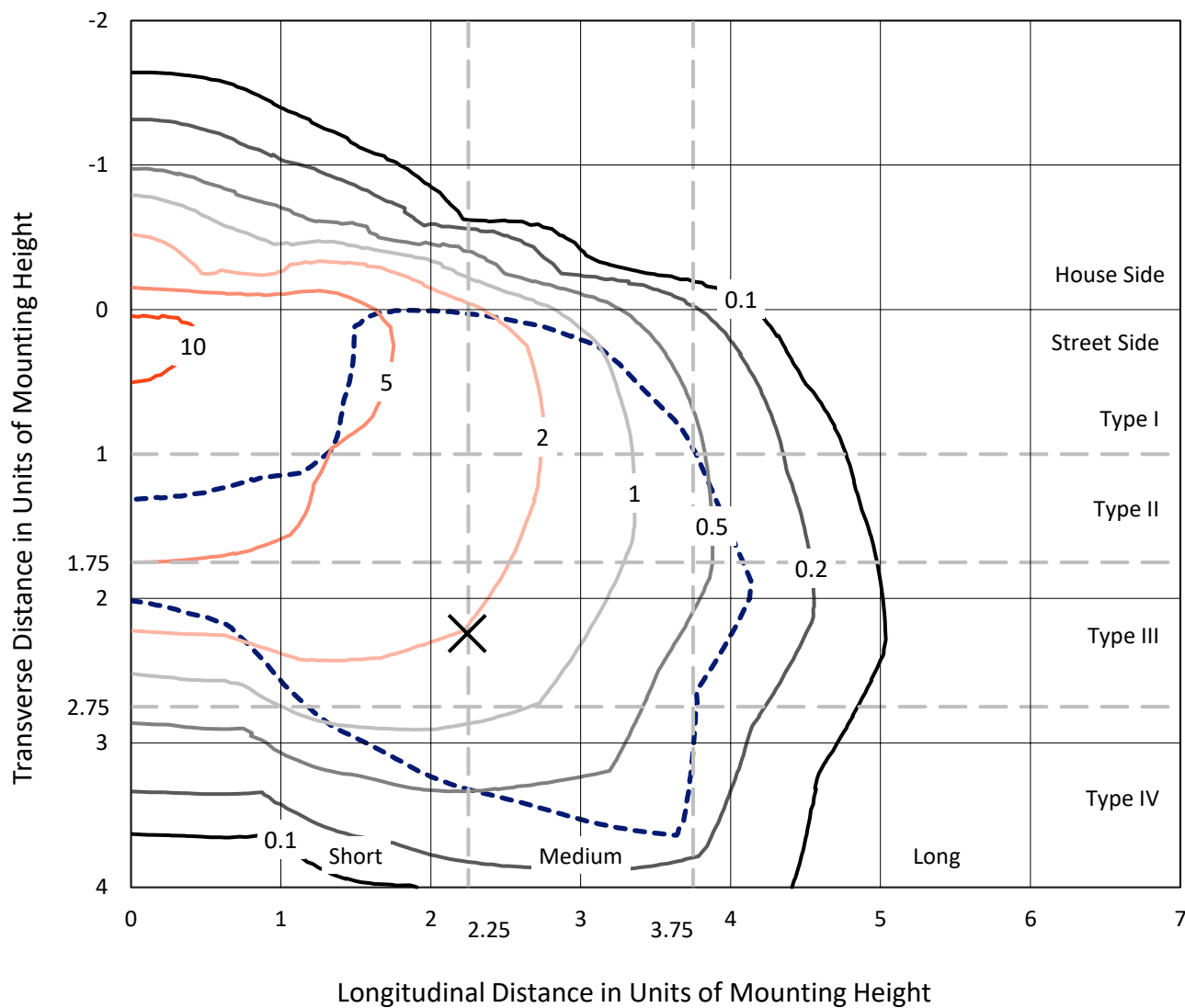
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## Iso-Footcandle Lines of Horizontal Illumination

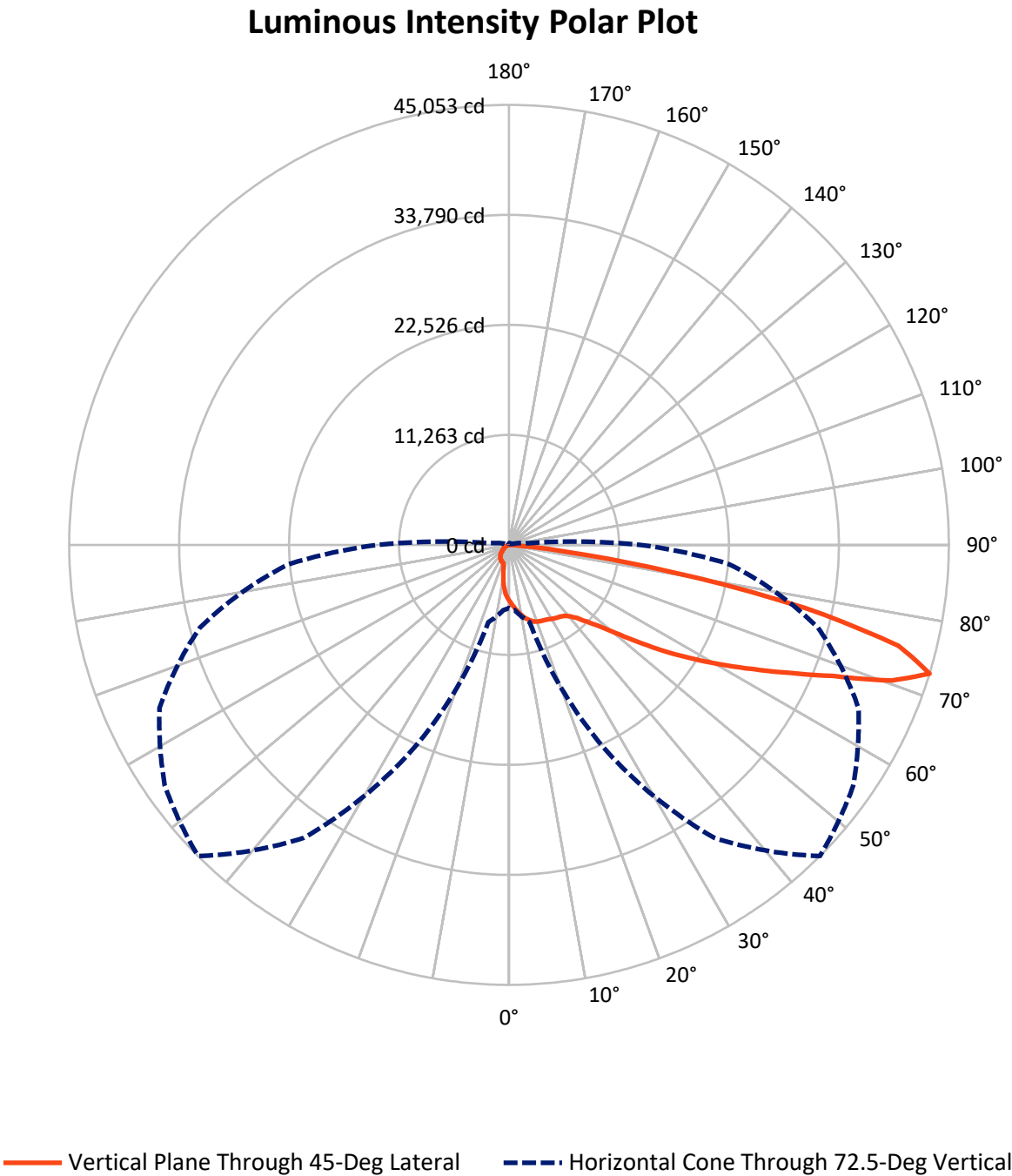
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 fc  
Type IV - Short - N/A

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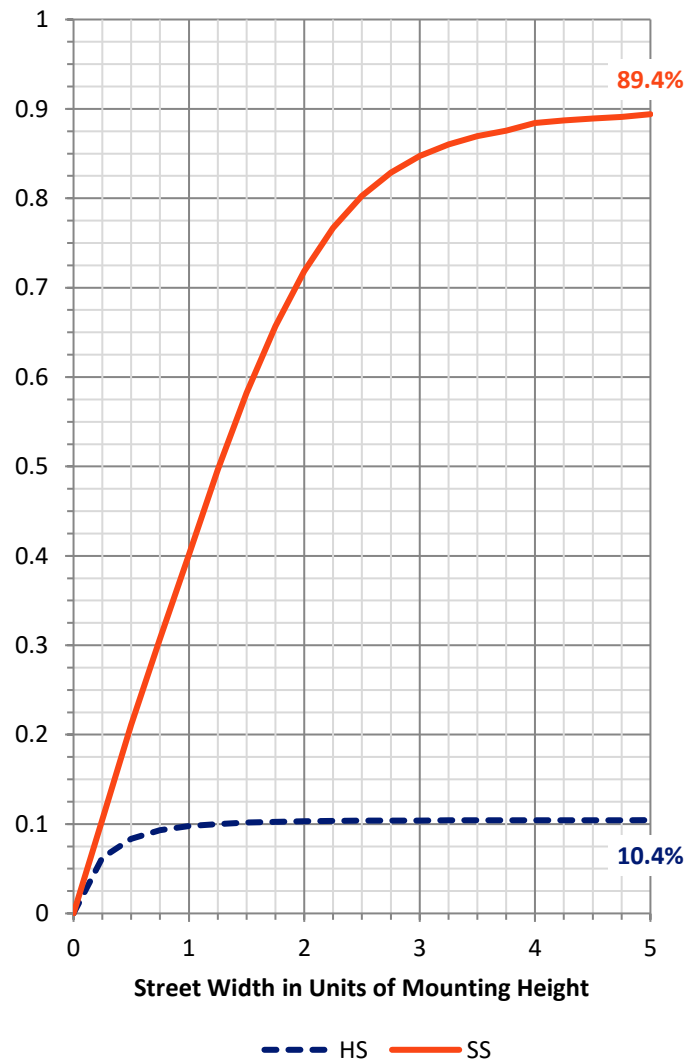
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5501.6   | 0.0    | 5501.6  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 46858.4  | 0.0    | 46858.4 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 52360.0  | 0.0    | 52360.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 540.5   | 1.0       |
| 10°-20°   | 1579.5  | 3.0       |
| 20°-30°   | 2593.9  | 5.0       |
| 30°-40°   | 3678.7  | 7.0       |
| 40°-50°   | 6080.5  | 11.6      |
| 50°-60°   | 10922.9 | 20.9      |
| 60°-70°   | 15167.0 | 29.0      |
| 70°-80°   | 11001.7 | 21.0      |
| 80°-90°   | 795.4   | 1.5       |
| 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°    | 52360.0 | 100.0     |
| 0°-180°   | 52360.0 | 100.0     |

**Coefficient of Utilization**



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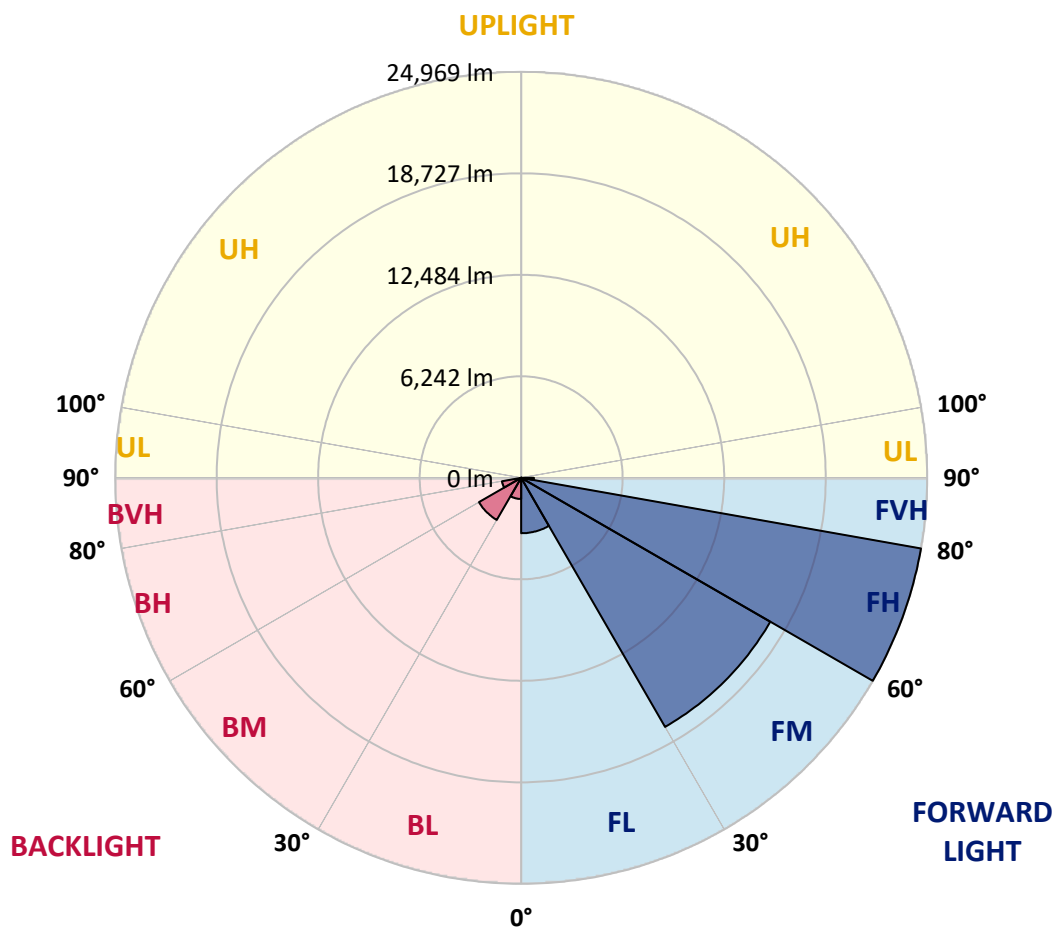
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 3410.7  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 17690.0 | 33.8      |                         |      |         |
| FH   | (60°-80°)   | 24969.0 | 47.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 788.7   | 1.5       |                         |      | G5      |
| BL   | (0°-30°)    | 1303.1  | 2.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 2992.1  | 5.7       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1199.7  | 2.3       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 6.7     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B3-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 5736.1  | 5736.1  | 5736.1  | 5736.1  | 5736.1  | 5736.1  | 5736.1  | 5736.1  | 5736.1  | 5736.1  | 5736.1  |
| 2.5°  | 6265.1  | 6275.8  | 6268.7  | 6225.8  | 6154.3  | 6115.0  | 6093.5  | 6022.1  | 5975.6  | 5893.4  | 5807.6  |
| 5°    | 6840.5  | 6883.4  | 6858.4  | 6772.6  | 6636.8  | 6540.3  | 6511.7  | 6365.2  | 6232.9  | 6079.2  | 5900.5  |
| 7.5°  | 7451.6  | 7473.1  | 7426.6  | 7315.8  | 7133.6  | 6969.2  | 6944.1  | 6740.4  | 6529.6  | 6293.7  | 6050.7  |
| 10°   | 7980.6  | 8005.6  | 7934.1  | 7773.3  | 7566.0  | 7362.3  | 7326.5  | 7101.4  | 6851.2  | 6561.7  | 6250.8  |
| 12.5° | 8423.7  | 8448.8  | 8355.8  | 8162.8  | 7934.1  | 7723.3  | 7687.5  | 7451.6  | 7176.4  | 6854.8  | 6468.8  |
| 15°   | 8759.7  | 8806.2  | 8681.1  | 8473.8  | 8227.2  | 8016.3  | 7998.4  | 7766.1  | 7498.1  | 7140.7  | 6729.7  |
| 17.5° | 8956.3  | 9002.7  | 8884.8  | 8634.6  | 8423.7  | 8245.0  | 8223.6  | 8030.6  | 7780.4  | 7437.3  | 6983.4  |
| 20°   | 8988.4  | 9031.3  | 8906.2  | 8688.2  | 8513.1  | 8370.1  | 8359.4  | 8220.0  | 8037.8  | 7709.0  | 7258.6  |
| 22.5° | 8891.9  | 8945.5  | 8831.2  | 8656.0  | 8534.5  | 8459.5  | 8445.2  | 8366.6  | 8262.9  | 7984.1  | 7516.0  |
| 25°   | 8791.9  | 8834.7  | 8749.0  | 8595.3  | 8531.0  | 8523.8  | 8534.5  | 8520.2  | 8498.8  | 8262.9  | 7816.2  |
| 27.5° | 8784.7  | 8831.2  | 8734.7  | 8588.1  | 8552.4  | 8627.5  | 8638.2  | 8706.1  | 8724.0  | 8516.7  | 8105.7  |
| 30°   | 8845.5  | 8877.6  | 8784.7  | 8631.0  | 8613.2  | 8784.7  | 8788.3  | 8909.8  | 8938.4  | 8731.1  | 8391.6  |
| 32.5° | 8977.7  | 9013.4  | 8920.5  | 8695.4  | 8670.3  | 8909.8  | 8920.5  | 9081.3  | 9127.8  | 8959.8  | 8691.8  |
| 35°   | 9288.6  | 9331.5  | 9224.3  | 8874.1  | 8784.7  | 9027.7  | 9059.9  | 9249.3  | 9342.2  | 9202.9  | 9002.7  |
| 37.5° | 10064.2 | 9939.1  | 9792.6  | 9235.0  | 9045.6  | 9213.6  | 9267.2  | 9488.8  | 9653.2  | 9492.3  | 9374.4  |
| 40°   | 11990.5 | 11597.4 | 11139.9 | 9849.7  | 9503.1  | 9610.3  | 9653.2  | 9874.8  | 10099.9 | 9942.7  | 9885.5  |
| 42.5° | 14881.8 | 14417.2 | 13681.0 | 11265.0 | 10192.8 | 10246.4 | 10278.6 | 10471.6 | 10789.7 | 10664.6 | 10678.9 |
| 45°   | 17458.6 | 17290.6 | 16540.1 | 13681.0 | 11483.0 | 11218.6 | 11257.9 | 11357.9 | 11826.1 | 11779.7 | 11872.6 |
| 47.5° | 19438.6 | 19342.1 | 18763.1 | 16454.4 | 13663.1 | 12408.7 | 12519.5 | 12565.9 | 13241.4 | 13405.8 | 13656.0 |
| 50°   | 20961.1 | 20925.3 | 20407.1 | 18920.4 | 16511.5 | 14163.5 | 14202.8 | 14102.7 | 15114.1 | 15521.6 | 15996.9 |
| 52.5° | 22397.8 | 22519.3 | 22136.9 | 21211.2 | 19552.9 | 16461.5 | 16454.4 | 15982.6 | 17347.8 | 17962.5 | 18773.8 |
| 55°   | 23695.1 | 23738.0 | 23777.3 | 23548.6 | 22612.2 | 19077.6 | 19009.7 | 18237.7 | 19938.9 | 20575.1 | 21454.3 |
| 57.5° | 24913.8 | 24931.7 | 25281.9 | 25750.1 | 25796.6 | 21886.7 | 21761.6 | 20836.0 | 22769.5 | 23223.4 | 23763.0 |
| 60°   | 25732.3 | 25814.5 | 26554.3 | 27855.2 | 28423.4 | 24785.2 | 24717.3 | 23773.7 | 25650.1 | 25860.9 | 25760.9 |
| 62.5° | 24552.9 | 25053.2 | 26918.8 | 29499.2 | 30903.7 | 27998.1 | 27966.0 | 27079.6 | 28680.7 | 28509.2 | 27651.5 |
| 65°   | 19874.6 | 20721.6 | 24002.5 | 30610.7 | 33337.6 | 31586.3 | 31632.8 | 30689.3 | 31793.6 | 31236.1 | 29188.2 |
| 67.5° | 13902.6 | 14796.0 | 18677.3 | 30700.0 | 36057.3 | 35800.0 | 36068.0 | 34588.4 | 35099.5 | 33848.6 | 29552.8 |
| 70°   | 9613.9  | 10074.9 | 12601.7 | 28777.2 | 38176.7 | 41604.1 | 41596.9 | 39377.5 | 38387.5 | 35038.8 | 27694.3 |
| 72.5° | 6465.2  | 6704.7  | 8184.3  | 22830.2 | 36618.4 | 45052.9 | 44845.6 | 43037.2 | 39495.4 | 32769.3 | 22626.5 |
| 75°   | 2726.9  | 2902.0  | 3788.4  | 12830.4 | 28970.2 | 41218.1 | 40657.0 | 38033.7 | 35092.4 | 25803.7 | 14117.0 |
| 77.5° | 864.9   | 939.9   | 1493.9  | 4592.5  | 15957.6 | 30982.4 | 30389.1 | 23752.3 | 23520.0 | 12944.8 | 5160.7  |
| 80°   | 411.0   | 478.9   | 839.9   | 1844.1  | 6279.4  | 16851.1 | 16768.9 | 10775.4 | 10117.8 | 3495.3  | 1036.4  |
| 82.5° | 178.7   | 210.9   | 464.6   | 986.4   | 2809.1  | 6011.3  | 6132.9  | 3666.8  | 3034.3  | 1325.9  | 318.1   |
| 85°   | 57.2    | 75.1    | 214.4   | 453.9   | 1186.5  | 1493.9  | 1476.0  | 872.0   | 1222.3  | 721.9   | 110.8   |
| 87.5° | 0.0     | 0.0     | 71.5    | 103.6   | 121.5   | 85.8    | 96.5    | 75.1    | 339.5   | 200.1   | 39.3    |
| 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°    | 5736.1  | 5736.1  | 5736.1 | 5736.1 | 5736.1 | 5736.1 | 5736.1 | 5736.1 | 5736.1 | 5736.1 | 5736.1 |
| 2.5°  | 5764.7  | 5707.6  | 5607.5 | 5514.6 | 5432.4 | 5350.2 | 5300.1 | 5228.7 | 5221.5 | 5221.5 | 5239.4 |
| 5°    | 5804.1  | 5711.1  | 5532.4 | 5343.0 | 5125.0 | 4917.7 | 4710.4 | 4510.3 | 4446.0 | 4399.5 | 4420.9 |
| 7.5°  | 5918.4  | 5771.9  | 5489.5 | 5128.6 | 4714.0 | 4260.1 | 3942.0 | 3598.9 | 3466.7 | 3395.2 | 3406.0 |
| 10°   | 6082.8  | 5882.7  | 5453.8 | 4821.2 | 4149.3 | 3531.0 | 3077.1 | 2705.5 | 2562.5 | 2501.7 | 2501.7 |
| 12.5° | 6265.1  | 6018.5  | 5389.5 | 4438.8 | 3531.0 | 2791.2 | 2348.1 | 2176.5 | 2155.1 | 2155.1 | 2155.1 |
| 15°   | 6483.1  | 6182.9  | 5278.7 | 3988.5 | 2884.2 | 2208.7 | 2051.4 | 2058.6 | 2080.0 | 2094.3 | 2094.3 |
| 17.5° | 6708.3  | 6358.0  | 5103.6 | 3484.6 | 2312.3 | 1987.1 | 1990.7 | 2001.4 | 2019.3 | 2033.6 | 2033.6 |
| 20°   | 6951.3  | 6533.1  | 4871.3 | 2948.5 | 1983.5 | 1922.8 | 1933.5 | 1944.2 | 1958.5 | 1965.7 | 1969.2 |
| 22.5° | 7212.2  | 6697.5  | 4596.1 | 2423.1 | 1872.7 | 1869.2 | 1872.7 | 1883.5 | 1901.3 | 1901.3 | 1908.5 |
| 25°   | 7490.9  | 6879.8  | 4281.6 | 2040.7 | 1815.6 | 1815.6 | 1822.7 | 1829.8 | 1844.1 | 1844.1 | 1847.7 |
| 27.5° | 7776.9  | 7047.8  | 3949.2 | 1840.6 | 1765.5 | 1761.9 | 1761.9 | 1772.7 | 1779.8 | 1783.4 | 1787.0 |
| 30°   | 8091.4  | 7244.3  | 3616.8 | 1797.7 | 1726.2 | 1708.3 | 1697.6 | 1704.8 | 1711.9 | 1715.5 | 1722.6 |
| 32.5° | 8413.0  | 7433.8  | 3320.2 | 1815.6 | 1686.9 | 1654.7 | 1619.0 | 1611.8 | 1611.8 | 1626.1 | 1636.9 |
| 35°   | 8770.4  | 7641.1  | 3091.4 | 1876.3 | 1665.4 | 1576.1 | 1518.9 | 1486.8 | 1490.3 | 1511.8 | 1522.5 |
| 37.5° | 9199.3  | 7891.2  | 2923.5 | 1929.9 | 1651.2 | 1486.8 | 1393.8 | 1354.5 | 1329.5 | 1354.5 | 1347.4 |
| 40°   | 9760.4  | 8259.3  | 2802.0 | 1972.8 | 1633.3 | 1383.1 | 1258.0 | 1193.7 | 1147.2 | 1161.5 | 1154.4 |
| 42.5° | 10586.0 | 8838.3  | 2755.5 | 1976.4 | 1594.0 | 1261.6 | 1118.6 | 1032.9 | 965.0  | 968.5  | 954.2  |
| 45°   | 11743.9 | 9753.2  | 2994.9 | 1929.9 | 1508.2 | 1129.4 | 972.1  | 857.7  | 814.9  | 804.1  | 789.8  |
| 47.5° | 13330.7 | 11086.3 | 3548.9 | 1833.4 | 1383.1 | 1000.7 | 829.2  | 732.7  | 700.5  | 682.6  | 671.9  |
| 50°   | 15457.2 | 12798.2 | 4163.6 | 1726.2 | 1258.0 | 879.2  | 711.2  | 650.5  | 629.0  | 611.1  | 607.6  |
| 52.5° | 17923.2 | 14535.2 | 4667.5 | 1619.0 | 1132.9 | 772.0  | 636.2  | 600.4  | 582.5  | 568.3  | 564.7  |
| 55°   | 20185.5 | 15732.4 | 4639.0 | 1504.6 | 1011.4 | 686.2  | 582.5  | 561.1  | 539.7  | 525.4  | 518.2  |
| 57.5° | 21593.7 | 15900.4 | 3824.1 | 1379.5 | 872.0  | 618.3  | 532.5  | 518.2  | 493.2  | 475.3  | 471.8  |
| 60°   | 22240.5 | 14942.6 | 2680.4 | 1215.1 | 732.7  | 554.0  | 478.9  | 471.8  | 439.6  | 414.6  | 407.4  |
| 62.5° | 22358.5 | 13162.8 | 1787.0 | 1011.4 | 611.1  | 493.2  | 425.3  | 414.6  | 371.7  | 328.8  | 307.4  |
| 65°   | 21879.6 | 10618.1 | 1236.6 | 789.8  | 521.8  | 428.9  | 364.5  | 343.1  | 296.6  | 253.7  | 239.5  |
| 67.5° | 20364.2 | 7455.2  | 861.3  | 568.3  | 443.2  | 339.5  | 289.5  | 282.3  | 246.6  | 210.9  | 200.1  |
| 70°   | 17587.3 | 4249.4  | 575.4  | 425.3  | 350.2  | 232.3  | 228.7  | 235.9  | 200.1  | 171.5  | 157.3  |
| 72.5° | 13484.4 | 1944.2  | 357.4  | 310.9  | 239.5  | 157.3  | 182.3  | 185.8  | 153.7  | 128.7  | 114.4  |
| 75°   | 7937.7  | 832.7   | 225.2  | 200.1  | 121.5  | 103.6  | 132.2  | 135.8  | 103.6  | 82.2   | 71.5   |
| 77.5° | 2701.9  | 314.5   | 143.0  | 117.9  | 60.8   | 57.2   | 85.8   | 85.8   | 57.2   | 32.2   | 25.0   |
| 80°   | 614.7   | 117.9   | 71.5   | 46.5   | 28.6   | 25.0   | 28.6   | 25.0   | 14.3   | 3.6    | 0.0    |
| 82.5° | 175.1   | 46.5    | 28.6   | 17.9   | 10.7   | 10.7   | 3.6    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 50.0    | 21.4    | 7.1    | 7.1    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 21.4    | 3.6     | 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)