

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: P957327

Luminaire Tested: **GALN-SB9D-722-U-AFL-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P957327  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB9D-722-U-AFL-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE  
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 65283 lumens  
Efficiency: N/A  
Efficacy: 99.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type II - Short  
BUG Rating: B3 - U0 - G4  
  
Input Watts (W): 658  
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

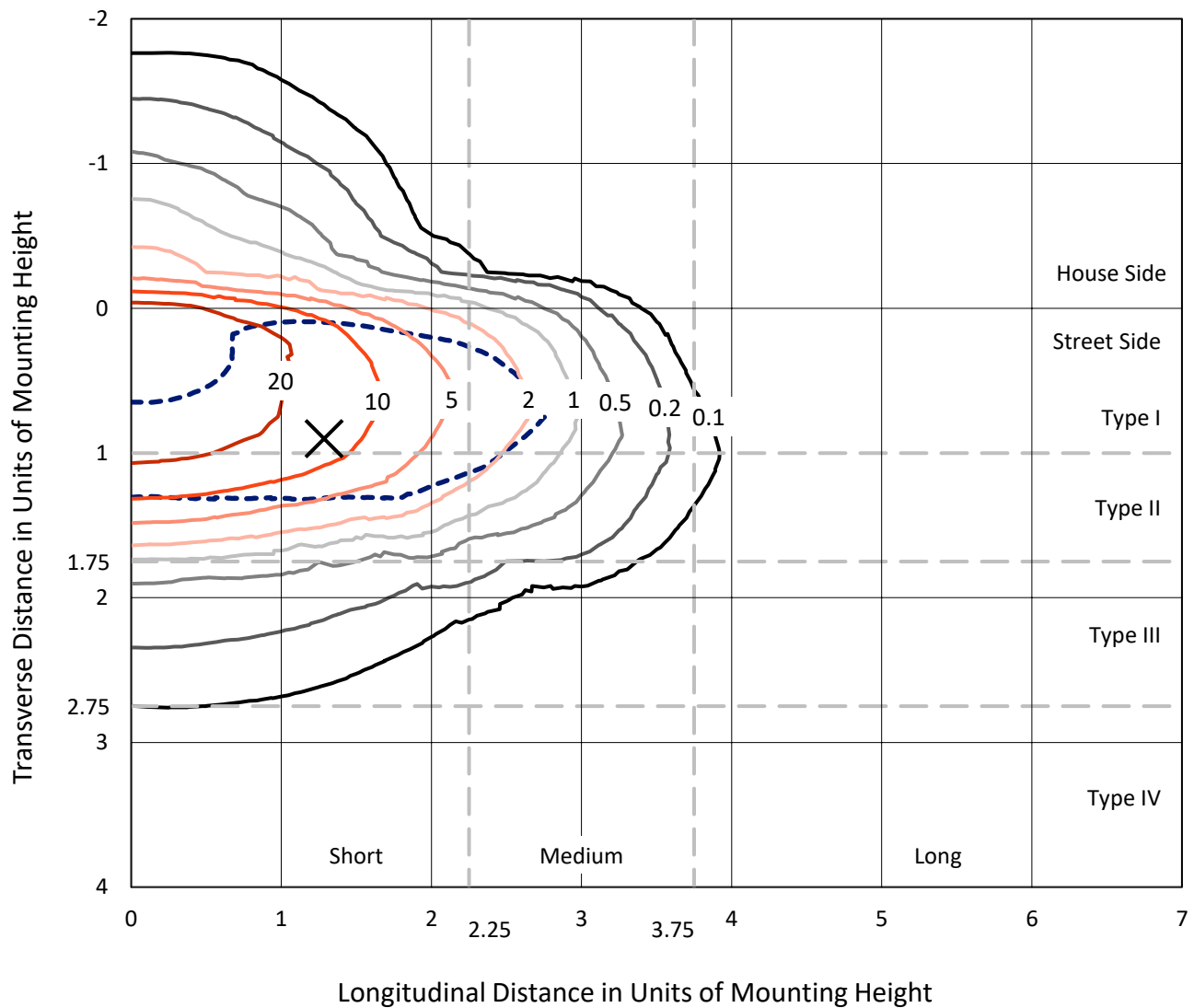


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

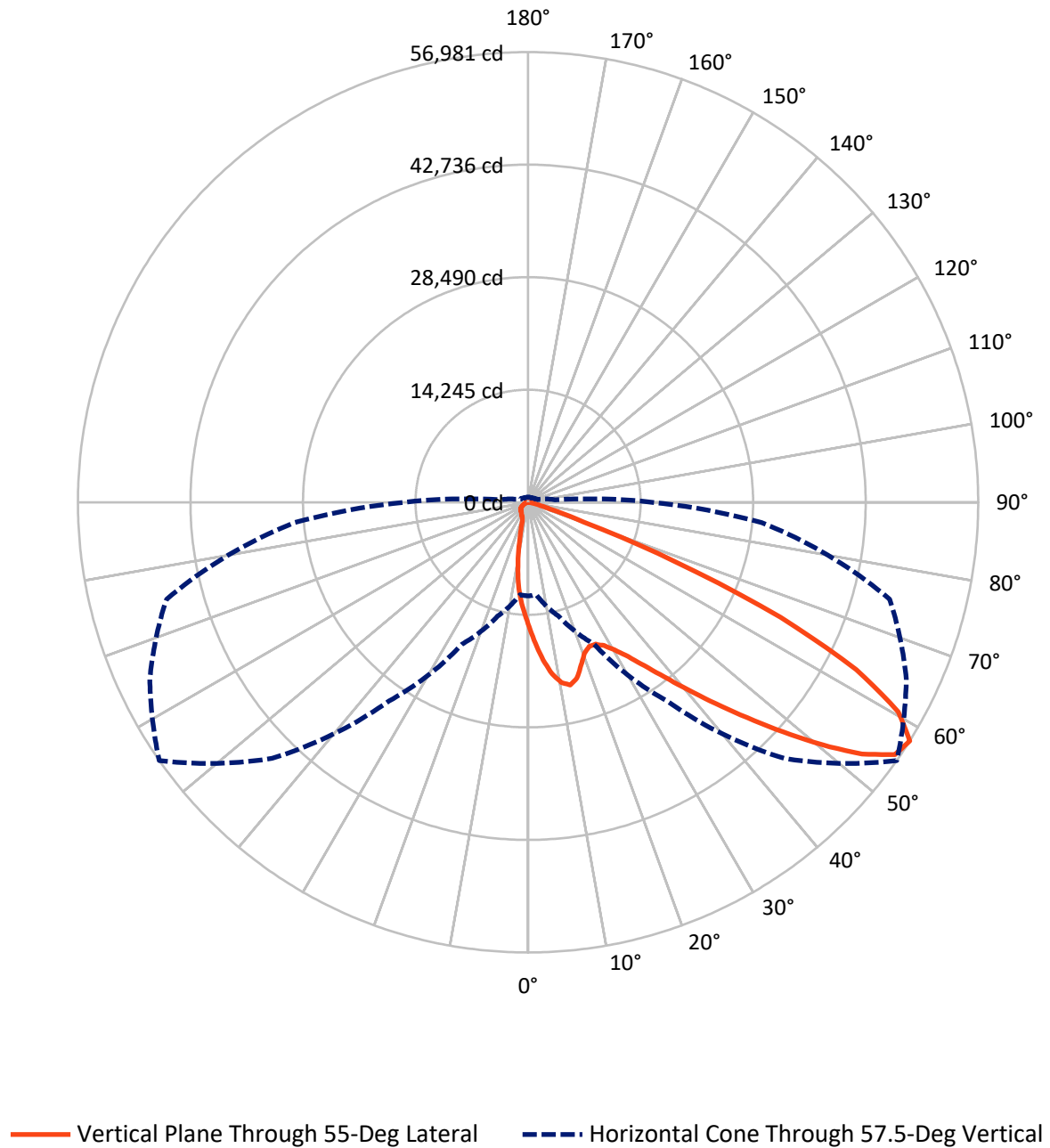


Based on 25 foot mounting height. Maximum calculated value = 36 fc  
Type II - Short - N/A

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## Luminous Intensity Polar Plot



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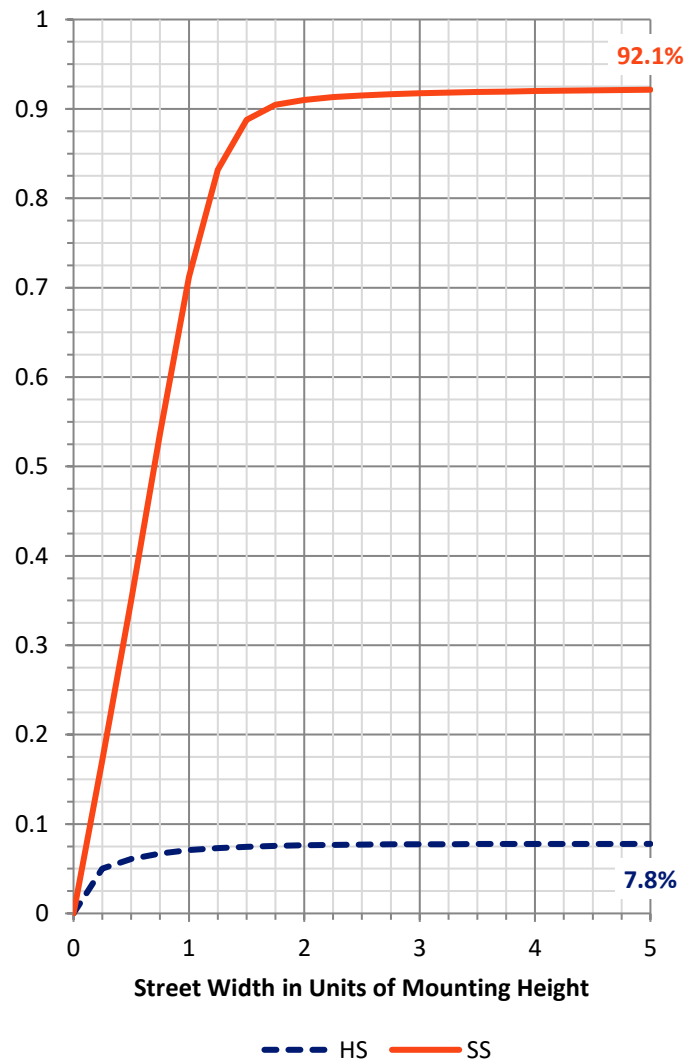
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 5098.3   | 0.0    | 5098.3  |
|                    | % Fixture | 7.8      | 0.0    | 7.8     |
| <b>Street Side</b> | Lumens    | 60184.7  | 0.0    | 60184.7 |
|                    | % Fixture | 92.2     | 0.0    | 92.2    |
| <b>Total</b>       | Lumens    | 65283.0  | 0.0    | 65283.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1463.7  | 2.2       |
| 10°-20°   | 3535.7  | 5.4       |
| 20°-30°   | 5657.0  | 8.7       |
| 30°-40°   | 9574.8  | 14.7      |
| 40°-50°   | 15719.9 | 24.1      |
| 50°-60°   | 17277.2 | 26.5      |
| 60°-70°   | 9910.2  | 15.2      |
| 70°-80°   | 2025.0  | 3.1       |
| 80°-90°   | 119.5   | 0.2       |
| 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°    | 65283.0 | 100.0     |
| 0°-180°   | 65283.0 | 100.0     |

**Coefficient of Utilization**



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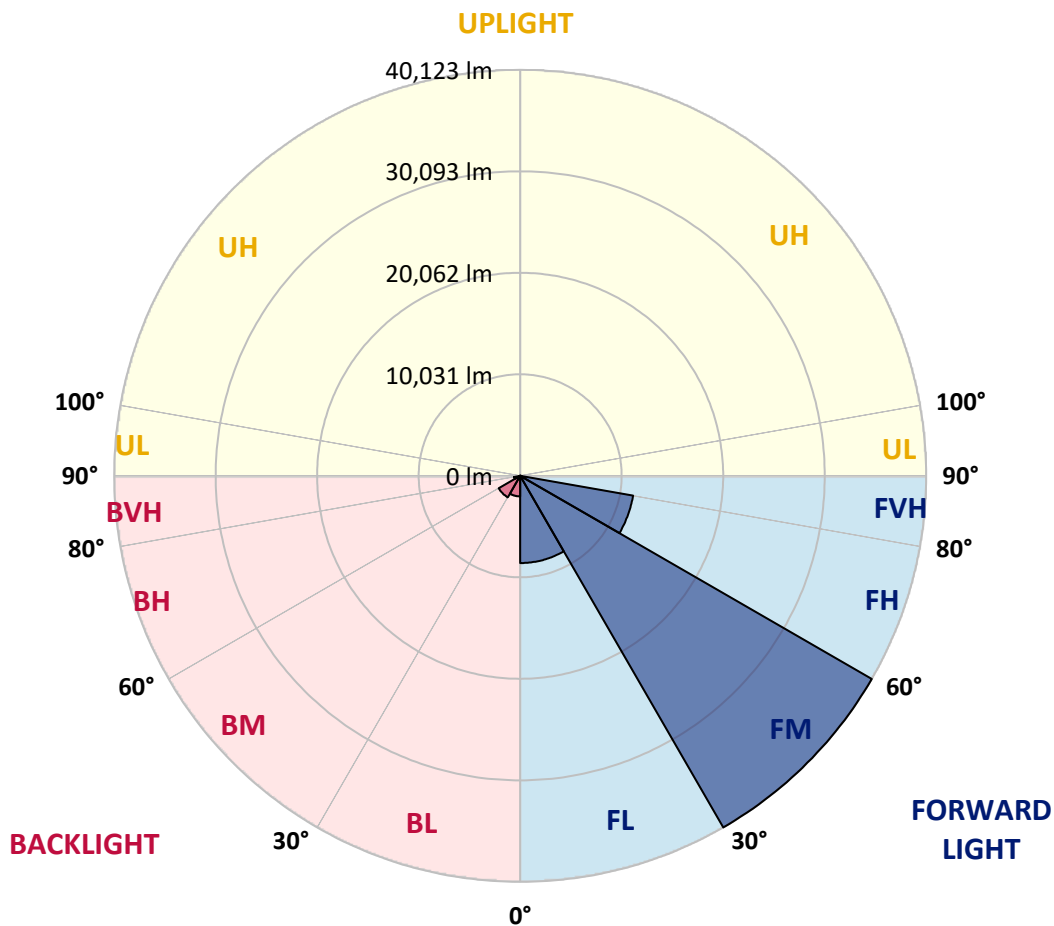
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 8621.0  | 13.2      |                         |      |          |
| FM   | (30°-60°)   | 40123.4 | 61.5      |                         |      |          |
| FH   | (60°-80°)   | 11328.9 | 17.4      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 111.4   | 0.2       |                         |      | G2/225   |
| BL   | (0°-30°)    | 2035.4  | 3.1       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 2448.6  | 3.8       | B2/2500                 |      |          |
| BH   | (60°-80°)   | 606.3   | 0.9       | B2/1000                 |      | G2/1000  |
| BVH  | (80°-90°)   | 8.1     | 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-G4**

Type II Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 |
| 2.5°  | 19519.6 | 19274.0 | 19237.8 | 19189.5 | 18722.5 | 18372.3 | 17865.1 | 17309.6 | 16685.6 | 16049.6 | 15767.8 |
| 5°    | 22550.8 | 22357.5 | 22321.3 | 22095.9 | 21564.5 | 20968.7 | 20067.0 | 18927.8 | 17764.5 | 16395.8 | 15808.1 |
| 7.5°  | 23138.5 | 23102.3 | 23267.3 | 23259.3 | 23186.8 | 22715.8 | 21955.0 | 20598.4 | 18851.3 | 16822.5 | 15912.7 |
| 10°   | 20517.9 | 20610.5 | 21101.6 | 21532.3 | 22695.7 | 23372.0 | 23206.9 | 22087.8 | 19970.4 | 17309.6 | 16029.5 |
| 12.5° | 18130.8 | 18022.1 | 18372.3 | 18859.4 | 20212.0 | 22224.7 | 23726.2 | 23331.7 | 21250.5 | 17861.1 | 16202.6 |
| 15°   | 16633.3 | 16589.0 | 16786.3 | 17011.7 | 18042.2 | 20071.1 | 23122.4 | 24342.1 | 22482.3 | 18513.2 | 16464.2 |
| 17.5° | 16154.3 | 16118.0 | 16178.4 | 16234.8 | 16903.0 | 18472.9 | 21685.3 | 24962.0 | 23661.8 | 19257.9 | 16754.1 |
| 20°   | 16544.7 | 16496.4 | 16488.4 | 16444.1 | 16721.9 | 17792.6 | 20385.1 | 25006.3 | 24720.5 | 19934.2 | 17003.6 |
| 22.5° | 17684.0 | 17627.6 | 17430.3 | 17253.2 | 17277.4 | 17885.2 | 19805.4 | 24563.5 | 25517.5 | 20566.2 | 17160.6 |
| 25°   | 19749.0 | 19656.4 | 19245.8 | 18650.1 | 18271.7 | 18529.3 | 19893.9 | 23979.8 | 26278.4 | 21061.3 | 17084.2 |
| 27.5° | 22333.4 | 22212.6 | 21685.3 | 20799.7 | 19934.2 | 19620.2 | 20534.0 | 23577.3 | 26910.4 | 21439.7 | 16919.1 |
| 30°   | 24865.4 | 24708.4 | 24189.1 | 23500.8 | 22236.8 | 21246.5 | 21689.3 | 23754.4 | 27663.1 | 21834.2 | 16701.7 |
| 32.5° | 27598.7 | 27449.8 | 26761.4 | 25908.0 | 24861.4 | 23529.0 | 23271.3 | 24619.9 | 28585.0 | 22385.7 | 16548.8 |
| 35°   | 31056.6 | 30823.1 | 29844.9 | 28681.6 | 27570.5 | 26222.0 | 25412.9 | 26113.3 | 29812.7 | 23227.0 | 16633.3 |
| 37.5° | 34993.5 | 34679.6 | 33624.9 | 32018.7 | 30569.5 | 29060.0 | 28021.4 | 28166.3 | 31612.1 | 24354.2 | 16895.0 |
| 40°   | 38705.0 | 38419.2 | 37445.1 | 35931.5 | 34112.0 | 32280.4 | 31173.4 | 30851.3 | 34095.9 | 25726.9 | 17353.9 |
| 42.5° | 40931.1 | 40673.5 | 40262.9 | 39622.8 | 38089.1 | 36221.3 | 34824.5 | 34128.1 | 37034.5 | 27369.3 | 17913.4 |
| 45°   | 41055.9 | 40830.5 | 41382.0 | 42126.7 | 41824.8 | 40580.9 | 38878.1 | 37602.1 | 39985.1 | 28911.0 | 18493.1 |
| 47.5° | 39059.3 | 38906.3 | 40580.9 | 43181.4 | 44477.6 | 45000.9 | 43431.0 | 40786.2 | 42420.6 | 30018.0 | 18730.6 |
| 50°   | 33616.8 | 33560.5 | 37006.3 | 41780.5 | 45488.0 | 48873.4 | 48233.4 | 43749.0 | 44308.5 | 30589.7 | 18505.2 |
| 52.5° | 29148.5 | 28943.2 | 30952.0 | 37296.1 | 44018.7 | 50910.3 | 52927.1 | 46655.4 | 45628.9 | 30698.3 | 17977.8 |
| 55°   | 22108.0 | 21926.8 | 24446.8 | 29792.6 | 39280.7 | 50185.7 | 56360.8 | 49654.4 | 46574.9 | 30420.6 | 17031.8 |
| 57.5° | 11859.1 | 11746.4 | 14930.5 | 19829.5 | 30706.4 | 45838.2 | 56980.7 | 52826.4 | 47371.9 | 29683.9 | 15707.4 |
| 60°   | 4617.2  | 4597.1  | 5788.6  | 9620.9  | 18662.1 | 37292.1 | 53852.9 | 54730.5 | 47871.1 | 28778.2 | 14600.4 |
| 62.5° | 2793.7  | 2854.1  | 3047.3  | 4319.3  | 8244.2  | 23166.7 | 46643.3 | 52564.8 | 48205.2 | 27948.9 | 13686.6 |
| 65°   | 2310.6  | 2314.7  | 2338.8  | 2966.8  | 3949.0  | 9693.4  | 35114.3 | 45439.7 | 47380.0 | 26471.6 | 12390.4 |
| 67.5° | 1980.5  | 2016.8  | 2109.4  | 2354.9  | 2785.6  | 4250.9  | 20216.0 | 35198.8 | 42360.2 | 23033.8 | 10369.6 |
| 70°   | 1561.9  | 1610.2  | 1726.9  | 1936.3  | 2149.6  | 2660.8  | 7471.3  | 23420.3 | 32360.9 | 17361.9 | 7841.6  |
| 72.5° | 1316.3  | 1312.3  | 1372.7  | 1574.0  | 1706.8  | 1871.9  | 2874.2  | 13123.1 | 18807.1 | 8288.5  | 3880.6  |
| 75°   | 1018.4  | 1058.7  | 1135.2  | 1316.3  | 1396.8  | 1356.6  | 1557.9  | 4794.4  | 6738.7  | 2511.9  | 1320.4  |
| 77.5° | 797.0   | 829.2   | 897.7   | 1074.8  | 1155.3  | 962.1   | 897.7   | 1714.9  | 2165.7  | 901.7   | 595.8   |
| 80°   | 358.3   | 386.4   | 611.9   | 793.0   | 942.0   | 664.2   | 487.1   | 877.6   | 962.1   | 410.6   | 301.9   |
| 82.5° | 64.4    | 108.7   | 358.3   | 418.7   | 483.1   | 430.7   | 253.6   | 454.9   | 471.0   | 165.0   | 104.7   |
| 85°   | 4.0     | 8.1     | 124.8   | 153.0   | 193.2   | 140.9   | 76.5    | 181.1   | 157.0   | 56.4    | 40.3    |
| 87.5° | 0.0     | 0.0     | 0.0     | 4.0     | 4.0     | 20.1    | 24.2    | 32.2    | 24.2    | 20.1    | 16.1    |
| 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):**

|       | 95°     | 105°    | 115°    | 125°    | 135°    | 145°    | 155°    | 165°    | 175°    | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 | 15731.6 |
| 2.5°  | 15478.0 | 14906.4 | 14350.9 | 13896.0 | 13630.3 | 13179.4 | 12881.6 | 12833.2 | 12708.5 | 12817.1 |
| 5°    | 15180.1 | 14157.6 | 13123.1 | 12197.2 | 11436.4 | 10454.2 | 9721.5  | 9411.6  | 9141.9  | 9234.5  |
| 7.5°  | 15039.2 | 13425.0 | 11814.8 | 10232.8 | 8606.5  | 7036.5  | 5869.2  | 5382.1  | 5011.7  | 5064.1  |
| 10°   | 14850.0 | 12664.2 | 10140.2 | 7724.9  | 5547.1  | 3997.3  | 3192.2  | 2894.3  | 2729.3  | 2733.3  |
| 12.5° | 14705.1 | 11754.4 | 8195.9  | 5237.2  | 3377.4  | 2552.2  | 2302.6  | 2230.1  | 2181.8  | 2185.8  |
| 15°   | 14632.6 | 10683.6 | 6275.7  | 3490.1  | 2415.3  | 2161.7  | 2101.3  | 2069.1  | 2036.9  | 2032.9  |
| 17.5° | 14511.9 | 9492.1  | 4593.1  | 2548.1  | 2113.4  | 2024.8  | 1972.5  | 1936.3  | 1896.0  | 1888.0  |
| 20°   | 14330.7 | 8139.5  | 3357.3  | 2153.6  | 1980.5  | 1912.1  | 1839.6  | 1791.3  | 1743.0  | 1735.0  |
| 22.5° | 13996.6 | 6710.5  | 2580.3  | 1992.6  | 1883.9  | 1807.4  | 1718.9  | 1662.5  | 1614.2  | 1606.2  |
| 25°   | 13376.7 | 5370.0  | 2173.8  | 1892.0  | 1799.4  | 1706.8  | 1610.2  | 1533.7  | 1489.4  | 1481.4  |
| 27.5° | 12591.7 | 4218.7  | 1972.5  | 1799.4  | 1690.7  | 1606.2  | 1497.5  | 1425.0  | 1384.8  | 1376.7  |
| 30°   | 11665.9 | 3248.6  | 1855.7  | 1694.7  | 1561.9  | 1489.4  | 1392.8  | 1332.4  | 1308.3  | 1308.3  |
| 32.5° | 10667.5 | 2596.4  | 1807.4  | 1590.1  | 1449.2  | 1368.7  | 1292.2  | 1268.0  | 1260.0  | 1256.0  |
| 35°   | 9729.6  | 2254.3  | 1783.3  | 1505.5  | 1348.5  | 1272.1  | 1239.8  | 1243.9  | 1260.0  | 1260.0  |
| 37.5° | 8896.3  | 2145.6  | 1771.2  | 1445.1  | 1260.0  | 1191.5  | 1211.7  | 1247.9  | 1231.8  | 1231.8  |
| 40°   | 8143.6  | 2157.7  | 1763.2  | 1400.9  | 1187.5  | 1147.3  | 1187.5  | 1159.3  | 1119.1  | 1115.1  |
| 42.5° | 7567.9  | 2258.3  | 1747.1  | 1364.6  | 1143.2  | 1115.1  | 1099.0  | 1054.7  | 1050.7  | 1058.7  |
| 45°   | 7149.3  | 2346.9  | 1743.0  | 1348.5  | 1094.9  | 1042.6  | 1022.5  | 978.2   | 1058.7  | 1078.8  |
| 47.5° | 6654.1  | 2346.9  | 1743.0  | 1292.2  | 1014.4  | 994.3   | 962.1   | 913.8   | 994.3   | 1014.4  |
| 50°   | 6014.1  | 2197.9  | 1674.6  | 1227.8  | 950.0   | 937.9   | 881.6   | 821.2   | 805.1   | 817.2   |
| 52.5° | 5205.0  | 1928.2  | 1501.5  | 1139.2  | 885.6   | 861.5   | 793.0   | 748.7   | 736.7   | 736.7   |
| 55°   | 4283.1  | 1614.2  | 1268.0  | 1010.4  | 817.2   | 772.9   | 724.6   | 704.5   | 692.4   | 684.3   |
| 57.5° | 3482.0  | 1324.4  | 1018.4  | 897.7   | 752.8   | 696.4   | 680.3   | 656.2   | 636.0   | 624.0   |
| 60°   | 2858.1  | 1042.6  | 841.3   | 797.0   | 688.4   | 636.0   | 632.0   | 599.8   | 547.5   | 539.4   |
| 62.5° | 2206.0  | 764.8   | 708.5   | 692.4   | 624.0   | 579.7   | 571.6   | 507.2   | 426.7   | 410.6   |
| 65°   | 1557.9  | 595.8   | 571.6   | 607.8   | 555.5   | 515.3   | 495.1   | 398.5   | 314.0   | 301.9   |
| 67.5° | 1094.9  | 499.2   | 450.9   | 531.4   | 483.1   | 430.7   | 418.7   | 338.1   | 261.7   | 253.6   |
| 70°   | 780.9   | 406.6   | 370.3   | 454.9   | 386.4   | 378.4   | 354.2   | 281.8   | 213.4   | 205.3   |
| 72.5° | 551.5   | 310.0   | 285.8   | 394.5   | 265.7   | 326.1   | 289.8   | 217.4   | 161.0   | 153.0   |
| 75°   | 406.6   | 221.4   | 201.3   | 229.5   | 193.2   | 245.6   | 205.3   | 144.9   | 100.6   | 96.6    |
| 77.5° | 297.9   | 140.9   | 120.8   | 112.7   | 112.7   | 153.0   | 112.7   | 60.4    | 44.3    | 40.3    |
| 80°   | 209.3   | 64.4    | 56.4    | 48.3    | 44.3    | 36.2    | 16.1    | 8.1     | 4.0     | 4.0     |
| 82.5° | 124.8   | 28.2    | 28.2    | 20.1    | 12.1    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 85°   | 28.2    | 12.1    | 12.1    | 4.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |
| 87.5° | 4.0     | 4.0     | 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     |

(END OF REPORT)