

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: P956672

Luminaire Tested: **GALN-SB9B-730-U-T4W-HSS**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P956672  
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-SB9B-730-U-T4W-HSS  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(9) 70 CRI, 3000K, 450mA 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: 39508 lumens  
Efficiency: N/A  
Efficacy: 119.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type IV - Short  
BUG Rating: B2 - U0 - G5  
  
Input Watts (W): 329.5  
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



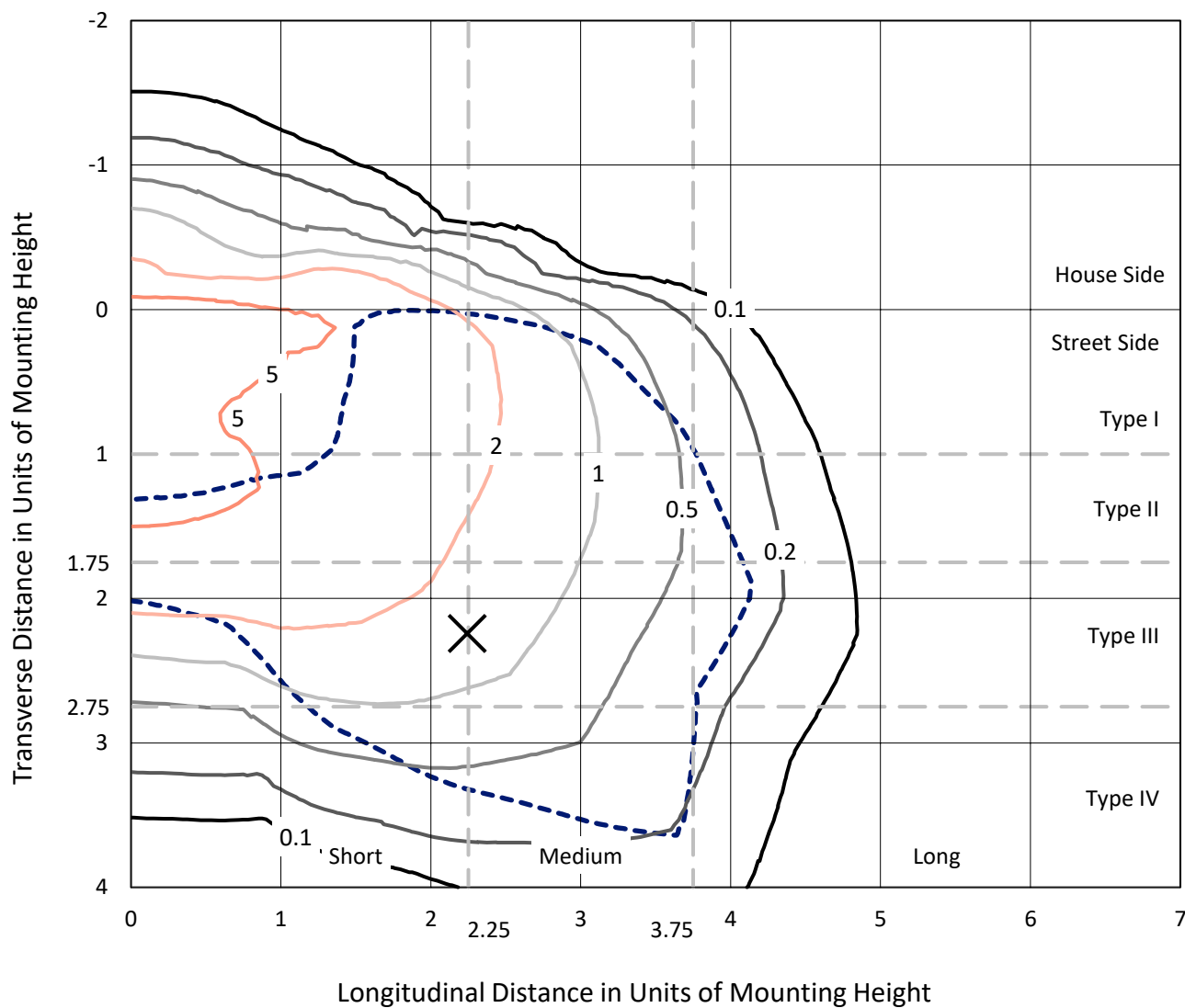
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

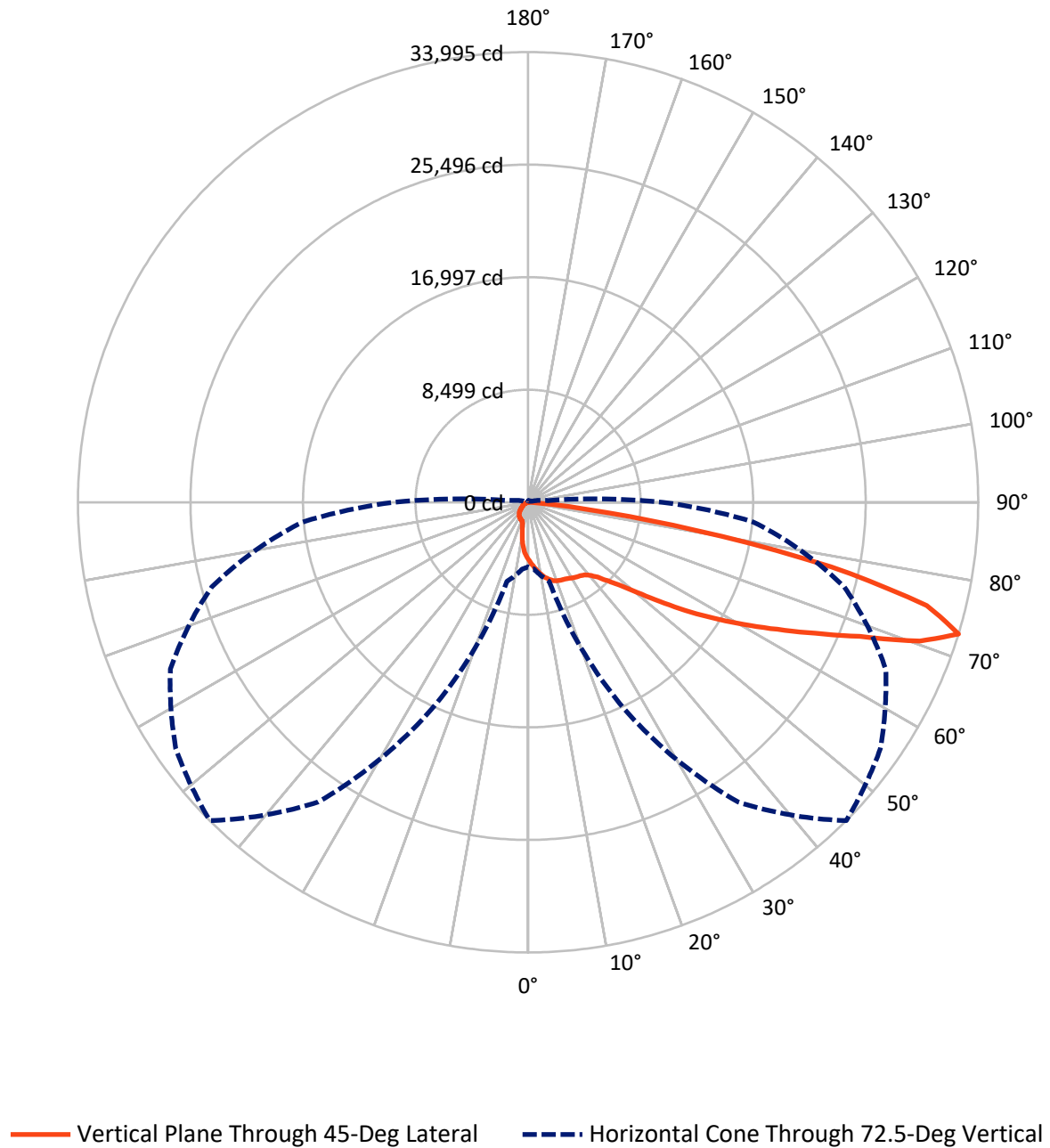


Based on 25 foot mounting height. Maximum calculated value = 9.5 fc

Type IV - Short - N/A

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## Luminous Intensity Polar Plot



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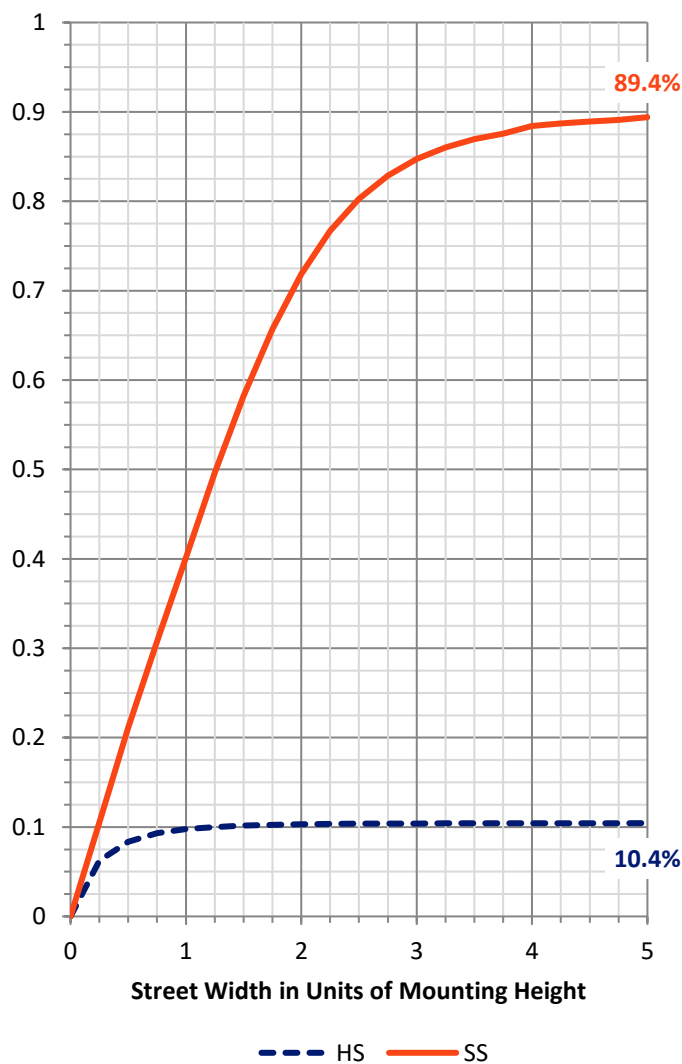
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 4151.2   | 0.0    | 4151.2  |
|                    | % Fixture | 10.5     | 0.0    | 10.5    |
| <b>Street Side</b> | Lumens    | 35356.8  | 0.0    | 35356.8 |
|                    | % Fixture | 89.5     | 0.0    | 89.5    |
| <b>Total</b>       | Lumens    | 39508.0  | 0.0    | 39508.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 407.8   | 1.0       |
| 10°-20°   | 1191.8  | 3.0       |
| 20°-30°   | 1957.2  | 5.0       |
| 30°-40°   | 2775.7  | 7.0       |
| 40°-50°   | 4588.0  | 11.6      |
| 50°-60°   | 8241.8  | 20.9      |
| 60°-70°   | 11444.2 | 29.0      |
| 70°-80°   | 8301.3  | 21.0      |
| 80°-90°   | 600.2   | 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°    | 39508.0 | 100.0     |
| 0°-180°   | 39508.0 | 100.0     |

**Coefficient of Utilization**



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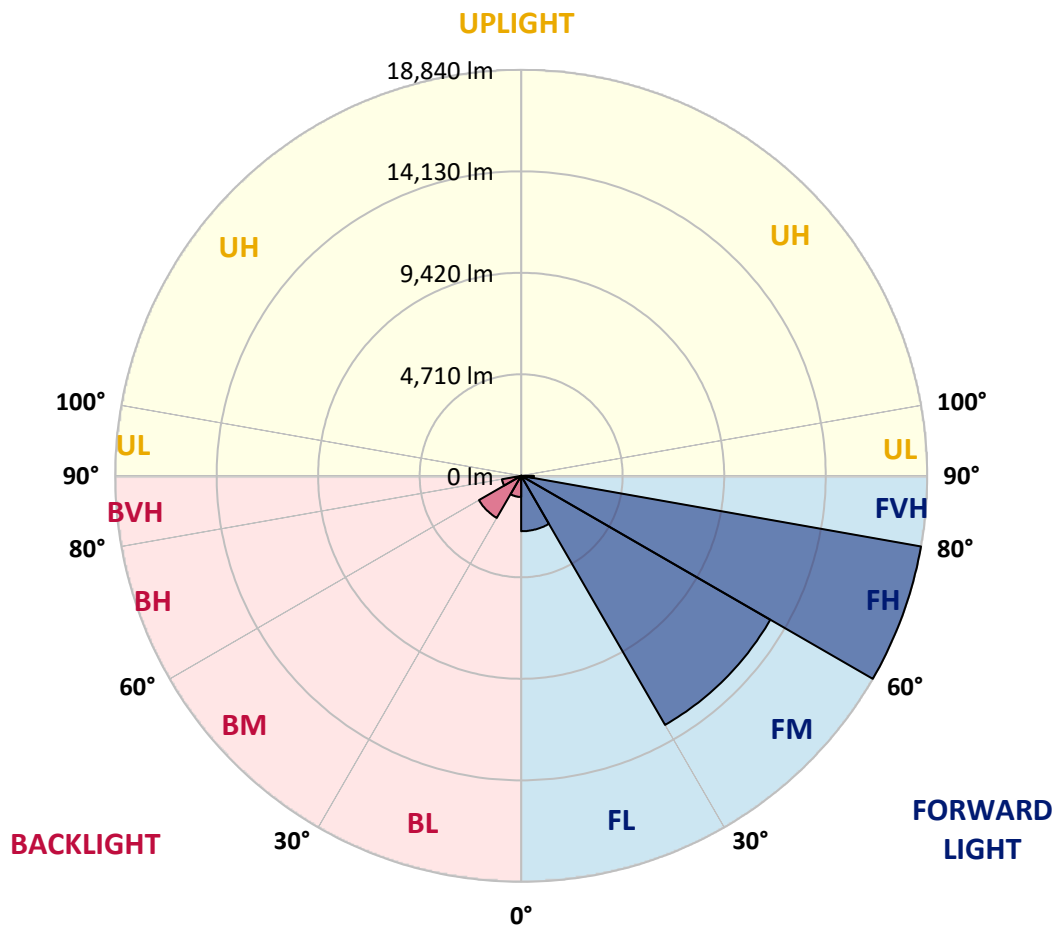
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2573.6  | 6.5       |                         |      |         |
| FM   | (30°-60°)   | 13347.9 | 33.8      |                         |      |         |
| FH   | (60°-80°)   | 18840.2 | 47.7      |                         |      | G5      |
| FVH  | (80°-90°)   | 595.1   | 1.5       |                         |      | G4/750  |
| BL   | (0°-30°)    | 983.3   | 2.5       | B2/1000                 |      |         |
| BM   | (30°-60°)   | 2257.7  | 5.7       | B2/2500                 |      |         |
| BH   | (60°-80°)   | 905.2   | 2.3       | B2/1000                 |      | G2/1000 |
| BVH  | (80°-90°)   | 5.0     | 0.0       |                         |      | G0/10   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

**BUG Rating: B2-U0-G5**

Type IV Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 46°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4328.2  | 4328.2  | 4328.2  | 4328.2  | 4328.2  | 4328.2  | 4328.2  | 4328.2  | 4328.2  | 4328.2  | 4328.2  |
| 2.5°  | 4727.3  | 4735.4  | 4730.0  | 4697.6  | 4643.7  | 4614.0  | 4597.9  | 4543.9  | 4508.9  | 4446.8  | 4382.1  |
| 5°    | 5161.5  | 5193.8  | 5174.9  | 5110.2  | 5007.8  | 4934.9  | 4913.4  | 4802.8  | 4703.0  | 4587.1  | 4452.2  |
| 7.5°  | 5622.6  | 5638.8  | 5603.7  | 5520.1  | 5382.6  | 5258.5  | 5239.7  | 5086.0  | 4926.9  | 4748.9  | 4565.5  |
| 10°   | 6021.7  | 6040.6  | 5986.6  | 5865.3  | 5708.9  | 5555.2  | 5528.2  | 5358.3  | 5169.6  | 4951.1  | 4716.5  |
| 12.5° | 6356.1  | 6375.0  | 6304.9  | 6159.2  | 5986.6  | 5827.5  | 5800.6  | 5622.6  | 5415.0  | 5172.2  | 4881.0  |
| 15°   | 6609.6  | 6644.6  | 6550.3  | 6393.8  | 6207.8  | 6048.7  | 6035.2  | 5859.9  | 5657.7  | 5388.0  | 5077.9  |
| 17.5° | 6757.9  | 6793.0  | 6704.0  | 6515.2  | 6356.1  | 6221.3  | 6205.1  | 6059.5  | 5870.7  | 5611.8  | 5269.3  |
| 20°   | 6782.2  | 6814.5  | 6720.1  | 6555.7  | 6423.5  | 6315.6  | 6307.6  | 6202.4  | 6064.9  | 5816.8  | 5477.0  |
| 22.5° | 6709.4  | 6749.8  | 6663.5  | 6531.4  | 6439.7  | 6383.1  | 6372.3  | 6312.9  | 6234.7  | 6024.4  | 5671.1  |
| 25°   | 6633.9  | 6666.2  | 6601.5  | 6485.5  | 6437.0  | 6431.6  | 6439.7  | 6428.9  | 6412.7  | 6234.7  | 5897.7  |
| 27.5° | 6628.5  | 6663.5  | 6590.7  | 6480.1  | 6453.2  | 6509.8  | 6517.9  | 6569.1  | 6582.6  | 6426.2  | 6116.1  |
| 30°   | 6674.3  | 6698.6  | 6628.5  | 6512.5  | 6499.0  | 6628.5  | 6631.2  | 6722.8  | 6744.4  | 6588.0  | 6331.8  |
| 32.5° | 6774.1  | 6801.0  | 6730.9  | 6561.0  | 6542.2  | 6722.8  | 6730.9  | 6852.3  | 6887.3  | 6760.6  | 6558.3  |
| 35°   | 7008.7  | 7041.1  | 6960.2  | 6695.9  | 6628.5  | 6811.8  | 6836.1  | 6979.0  | 7049.1  | 6944.0  | 6793.0  |
| 37.5° | 7593.9  | 7499.5  | 7388.9  | 6968.2  | 6825.3  | 6952.1  | 6992.5  | 7159.7  | 7283.8  | 7162.4  | 7073.4  |
| 40°   | 9047.4  | 8750.8  | 8405.6  | 7432.1  | 7170.5  | 7251.4  | 7283.8  | 7451.0  | 7620.8  | 7502.2  | 7459.0  |
| 42.5° | 11229.0 | 10878.4 | 10322.9 | 8500.0  | 7691.0  | 7731.4  | 7755.7  | 7901.3  | 8141.3  | 8046.9  | 8057.7  |
| 45°   | 13173.3 | 13046.6 | 12480.3 | 10322.9 | 8664.5  | 8464.9  | 8494.6  | 8570.1  | 8923.3  | 8888.3  | 8958.4  |
| 47.5° | 14667.3 | 14594.5 | 14157.6 | 12415.6 | 10309.4 | 9362.9  | 9446.5  | 9481.6  | 9991.2  | 10115.3 | 10304.0 |
| 50°   | 15816.1 | 15789.1 | 15398.1 | 14276.3 | 12458.7 | 10687.0 | 10716.6 | 10641.1 | 11404.3 | 11711.7 | 12070.4 |
| 52.5° | 16900.1 | 16991.8 | 16703.3 | 16004.8 | 14753.6 | 12420.9 | 12415.6 | 12059.6 | 13089.7 | 13553.6 | 14165.7 |
| 55°   | 17879.0 | 17911.4 | 17941.1 | 17768.5 | 17061.9 | 14394.9 | 14343.7 | 13761.2 | 15044.8 | 15524.8 | 16188.2 |
| 57.5° | 18798.6 | 18812.1 | 19076.4 | 19429.6 | 19464.7 | 16514.5 | 16420.1 | 15721.7 | 17180.6 | 17523.1 | 17930.3 |
| 60°   | 19416.2 | 19478.2 | 20036.4 | 21018.0 | 21446.8 | 18701.5 | 18650.3 | 17938.4 | 19354.1 | 19513.2 | 19437.7 |
| 62.5° | 18526.3 | 18903.8 | 20311.5 | 22258.5 | 23318.3 | 21125.9 | 21101.6 | 20432.8 | 21640.9 | 21511.5 | 20864.3 |
| 65°   | 14996.3 | 15635.4 | 18111.0 | 23097.1 | 25154.7 | 23833.3 | 23868.4 | 23156.5 | 23989.7 | 23569.1 | 22023.9 |
| 67.5° | 10490.1 | 11164.3 | 14092.9 | 23164.6 | 27206.9 | 27012.7 | 27215.0 | 26098.6 | 26484.2 | 25540.3 | 22298.9 |
| 70°   | 7254.1  | 7602.0  | 9508.5  | 21713.7 | 28806.0 | 31392.2 | 31386.8 | 29712.1 | 28965.1 | 26438.3 | 20896.6 |
| 72.5° | 4878.3  | 5059.0  | 6175.4  | 17226.4 | 27630.3 | 33994.5 | 33838.1 | 32473.5 | 29801.1 | 24725.9 | 17072.7 |
| 75°   | 2057.6  | 2189.7  | 2858.5  | 9681.1  | 21859.4 | 31100.9 | 30677.5 | 28698.2 | 26478.8 | 19470.1 | 10651.9 |
| 77.5° | 652.6   | 709.2   | 1127.2  | 3465.2  | 12040.7 | 23377.6 | 22929.9 | 17922.2 | 17746.9 | 9767.4  | 3894.0  |
| 80°   | 310.1   | 361.4   | 633.7   | 1391.5  | 4738.1  | 12714.9 | 12652.9 | 8130.5  | 7634.3  | 2637.4  | 782.0   |
| 82.5° | 134.8   | 159.1   | 350.6   | 744.3   | 2119.6  | 4535.8  | 4627.5  | 2766.8  | 2289.5  | 1000.5  | 240.0   |
| 85°   | 43.1    | 56.6    | 161.8   | 342.5   | 895.3   | 1127.2  | 1113.7  | 658.0   | 922.3   | 544.7   | 83.6    |
| 87.5° | 0.0     | 0.0     | 53.9    | 78.2    | 91.7    | 64.7    | 72.8    | 56.6    | 256.2   | 151.0   | 29.7    |
| 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°    | 4328.2  | 4328.2  | 4328.2 | 4328.2 | 4328.2 | 4328.2 | 4328.2 | 4328.2 | 4328.2 | 4328.2 | 4328.2 |
| 2.5°  | 4349.8  | 4306.6  | 4231.1 | 4161.0 | 4099.0 | 4036.9 | 3999.2 | 3945.3 | 3939.9 | 3939.9 | 3953.3 |
| 5°    | 4379.4  | 4309.3  | 4174.5 | 4031.5 | 3867.1 | 3710.6 | 3554.2 | 3403.2 | 3354.7 | 3319.6 | 3335.8 |
| 7.5°  | 4465.7  | 4355.2  | 4142.1 | 3869.7 | 3556.9 | 3214.5 | 2974.4 | 2715.6 | 2615.8 | 2561.9 | 2569.9 |
| 10°   | 4589.8  | 4438.7  | 4115.1 | 3637.8 | 3130.9 | 2664.3 | 2321.8 | 2041.4 | 1933.5 | 1887.7 | 1887.7 |
| 12.5° | 4727.3  | 4541.2  | 4066.6 | 3349.3 | 2664.3 | 2106.1 | 1771.7 | 1642.3 | 1626.1 | 1626.1 | 1626.1 |
| 15°   | 4891.8  | 4665.3  | 3983.0 | 3009.5 | 2176.2 | 1666.6 | 1547.9 | 1553.3 | 1569.5 | 1580.3 | 1580.3 |
| 17.5° | 5061.7  | 4797.4  | 3850.9 | 2629.3 | 1744.8 | 1499.4 | 1502.1 | 1510.1 | 1523.6 | 1534.4 | 1534.4 |
| 20°   | 5245.1  | 4929.5  | 3675.6 | 2224.8 | 1496.7 | 1450.8 | 1458.9 | 1467.0 | 1477.8 | 1483.2 | 1485.9 |
| 22.5° | 5441.9  | 5053.6  | 3467.9 | 1828.4 | 1413.1 | 1410.4 | 1413.1 | 1421.2 | 1434.6 | 1434.6 | 1440.0 |
| 25°   | 5652.3  | 5191.1  | 3230.6 | 1539.8 | 1369.9 | 1369.9 | 1375.3 | 1380.7 | 1391.5 | 1391.5 | 1394.2 |
| 27.5° | 5868.0  | 5317.9  | 2979.8 | 1388.8 | 1332.2 | 1329.5 | 1329.5 | 1337.6 | 1343.0 | 1345.6 | 1348.3 |
| 30°   | 6105.3  | 5466.2  | 2729.0 | 1356.4 | 1302.5 | 1289.0 | 1280.9 | 1286.3 | 1291.7 | 1294.4 | 1299.8 |
| 32.5° | 6348.0  | 5609.1  | 2505.2 | 1369.9 | 1272.8 | 1248.6 | 1221.6 | 1216.2 | 1216.2 | 1227.0 | 1235.1 |
| 35°   | 6617.7  | 5765.5  | 2332.6 | 1415.8 | 1256.7 | 1189.2 | 1146.1 | 1121.8 | 1124.5 | 1140.7 | 1148.8 |
| 37.5° | 6941.3  | 5954.3  | 2205.9 | 1456.2 | 1245.9 | 1121.8 | 1051.7 | 1022.0 | 1003.2 | 1022.0 | 1016.7 |
| 40°   | 7364.7  | 6232.0  | 2114.2 | 1488.6 | 1232.4 | 1043.6 | 949.2  | 900.7  | 865.6  | 876.4  | 871.0  |
| 42.5° | 7987.6  | 6668.9  | 2079.1 | 1491.3 | 1202.7 | 951.9  | 844.1  | 779.3  | 728.1  | 730.8  | 720.0  |
| 45°   | 8861.3  | 7359.3  | 2259.8 | 1456.2 | 1138.0 | 852.2  | 733.5  | 647.2  | 614.8  | 606.8  | 596.0  |
| 47.5° | 10058.6 | 8365.1  | 2677.8 | 1383.4 | 1043.6 | 755.1  | 625.6  | 552.8  | 528.6  | 515.1  | 507.0  |
| 50°   | 11663.2 | 9656.8  | 3141.6 | 1302.5 | 949.2  | 663.4  | 536.6  | 490.8  | 474.6  | 461.1  | 458.4  |
| 52.5° | 13523.9 | 10967.4 | 3521.9 | 1221.6 | 854.9  | 582.5  | 480.0  | 453.0  | 439.6  | 428.8  | 426.1  |
| 55°   | 15230.9 | 11870.8 | 3500.3 | 1135.3 | 763.2  | 517.8  | 439.6  | 423.4  | 407.2  | 396.4  | 391.0  |
| 57.5° | 16293.4 | 11997.6 | 2885.5 | 1040.9 | 658.0  | 466.5  | 401.8  | 391.0  | 372.1  | 358.7  | 356.0  |
| 60°   | 16781.5 | 11274.9 | 2022.5 | 916.9  | 552.8  | 418.0  | 361.4  | 356.0  | 331.7  | 312.8  | 307.4  |
| 62.5° | 16870.5 | 9931.9  | 1348.3 | 763.2  | 461.1  | 372.1  | 320.9  | 312.8  | 280.5  | 248.1  | 231.9  |
| 65°   | 16509.1 | 8011.9  | 933.1  | 596.0  | 393.7  | 323.6  | 275.1  | 258.9  | 223.8  | 191.5  | 180.7  |
| 67.5° | 15365.7 | 5625.3  | 649.9  | 428.8  | 334.4  | 256.2  | 218.4  | 213.0  | 186.1  | 159.1  | 151.0  |
| 70°   | 13270.4 | 3206.4  | 434.2  | 320.9  | 264.3  | 175.3  | 172.6  | 178.0  | 151.0  | 129.4  | 118.7  |
| 72.5° | 10174.6 | 1467.0  | 269.7  | 234.6  | 180.7  | 118.7  | 137.5  | 140.2  | 116.0  | 97.1   | 86.3   |
| 75°   | 5989.3  | 628.3   | 169.9  | 151.0  | 91.7   | 78.2   | 99.8   | 102.5  | 78.2   | 62.0   | 53.9   |
| 77.5° | 2038.7  | 237.3   | 107.9  | 89.0   | 45.8   | 43.1   | 64.7   | 64.7   | 43.1   | 24.3   | 18.9   |
| 80°   | 463.8   | 89.0    | 53.9   | 35.1   | 21.6   | 18.9   | 21.6   | 18.9   | 10.8   | 2.7    | 0.0    |
| 82.5° | 132.1   | 35.1    | 21.6   | 13.5   | 8.1    | 8.1    | 2.7    | 0.0    | 0.0    | 0.0    | 0.0    |
| 85°   | 37.8    | 16.2    | 5.4    | 5.4    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |
| 87.5° | 16.2    | 2.7     | 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)