

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: P457540

Luminaire Tested: **GALN-SA8D-827-U-SLL**

Issue Date: 1/4/2021

**Test Information**

Test Method: LM-79-08  
Report Number: P457540  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/4/2021  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: GALN-SA8D-827-U-SLL  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(8) 80 CRI, 2700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND SPILL LIGHT  
ELIMINATOR LEFT OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 39583 lumens  
Efficiency: N/A  
Efficacy: 80.3 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B3 - U0 - G5

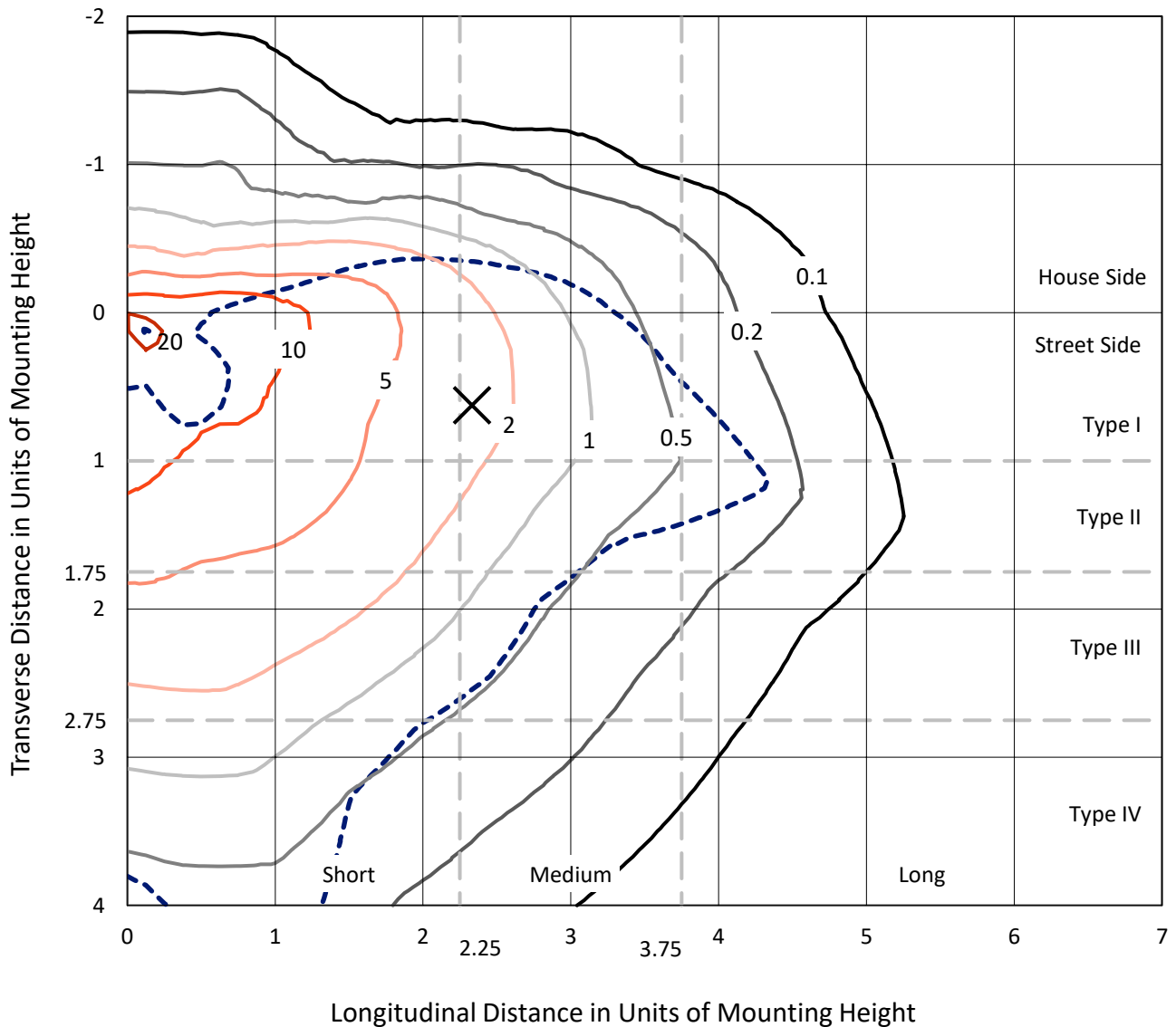
Input Watts (W): 493  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 24 FT



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### Iso-Footcandle Lines of Horizontal Illumination

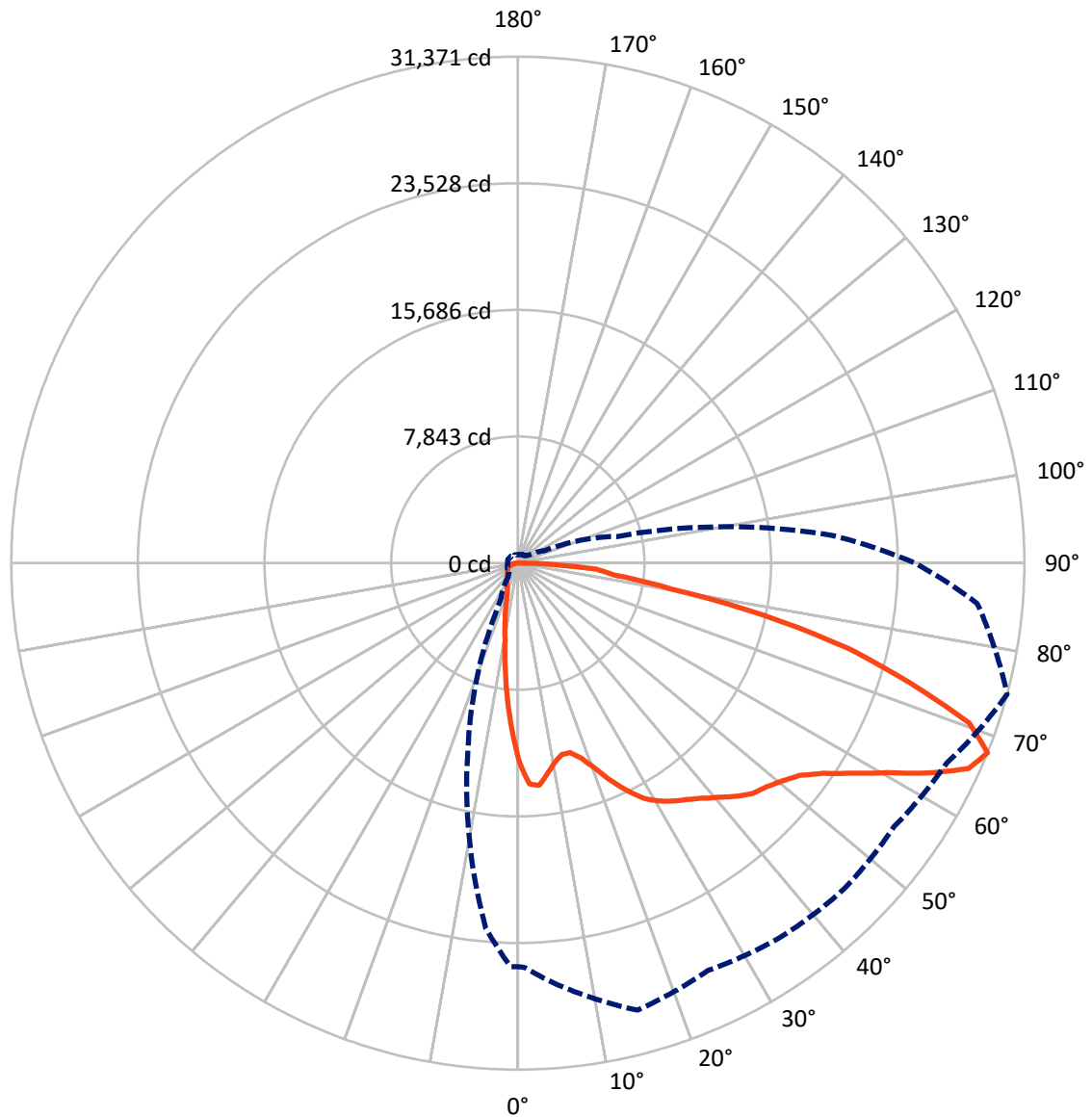
× Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 24.4 fc  
 Type III - Medium - N/A

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### Luminous Intensity Polar Plot



— Vertical Plane Through 75-Deg Lateral      - - - Horizontal Cone Through 67.5-Deg Vertical

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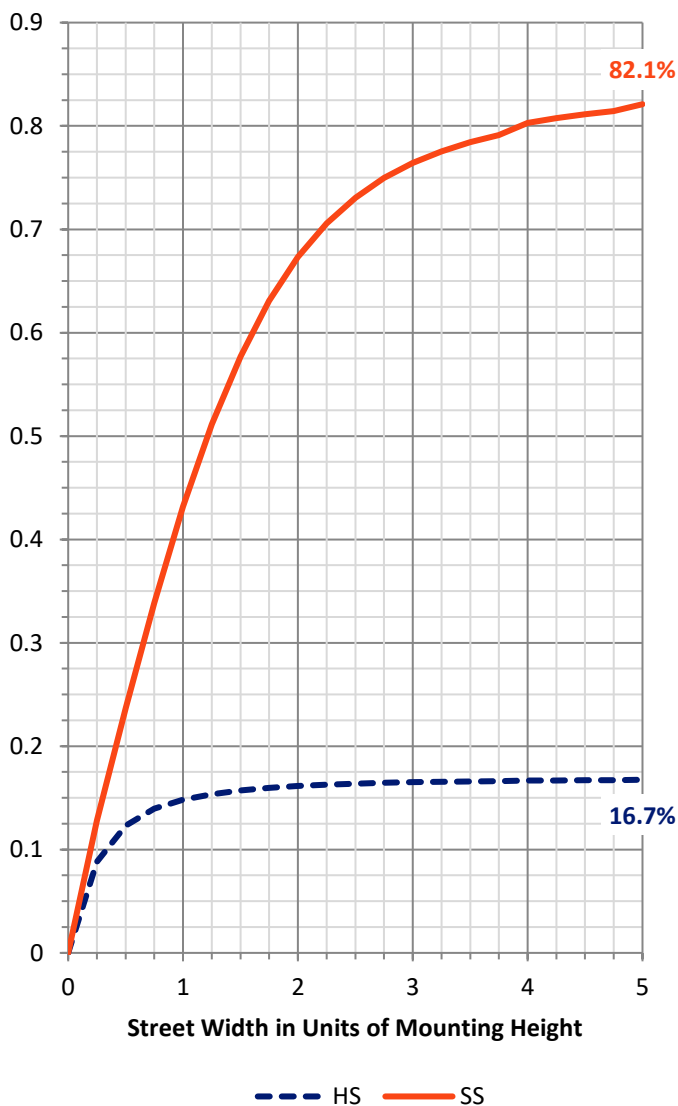
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 6690.4   | 0.0    | 6690.4  |
|                    | % Fixture | 16.9     | 0.0    | 16.9    |
| <b>Street Side</b> | Lumens    | 32892.6  | 0.0    | 32892.6 |
|                    | % Fixture | 83.1     | 0.0    | 83.1    |
| <b>Total</b>       | Lumens    | 39583.0  | 0.0    | 39583.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 938.0   | 2.4       |
| 10°-20°   | 1956.2  | 4.9       |
| 20°-30°   | 2815.0  | 7.1       |
| 30°-40°   | 4054.3  | 10.2      |
| 40°-50°   | 5695.2  | 14.4      |
| 50°-60°   | 7942.9  | 20.1      |
| 60°-70°   | 9443.6  | 23.9      |
| 70°-80°   | 5561.7  | 14.1      |
| 80°-90°   | 1176.1  | 3.0       |
| 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°    | 39583.0 | 100.0     |
| 0°-180°   | 39583.0 | 100.0     |

**Coefficient of Utilization**



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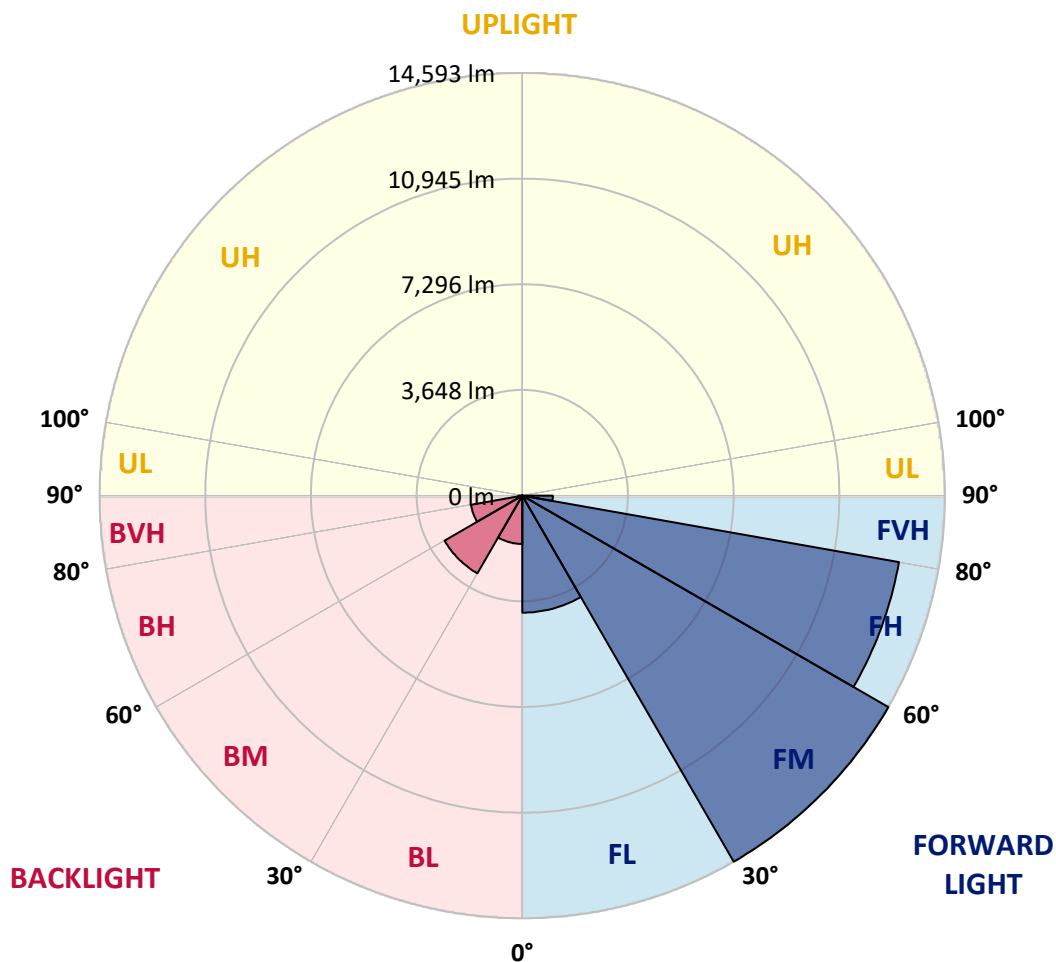
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|---------|-----------|-------------------------|------|---------|
|      |             |         |           | B                       | U    | G       |
| FL   | (0°-30°)    | 4040.3  | 10.2      |                         |      |         |
| FM   | (30°-60°)   | 14592.8 | 36.9      |                         |      |         |
| FH   | (60°-80°)   | 13205.0 | 33.4      |                         |      | G5      |
| FVH  | (80°-90°)   | 1054.4  | 2.7       |                         |      | G5      |
| BL   | (0°-30°)    | 1668.8  | 4.2       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 3099.7  | 7.8       | B3/5000                 |      |         |
| BH   | (60°-80°)   | 1800.3  | 4.5       | B3/2500                 |      | G3/2500 |
| BVH  | (80°-90°)   | 121.6   | 0.3       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |         |

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

Type III Medium





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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 1°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 |
| 2.5°  | 13333.8 | 13351.5 | 13465.8 | 13798.3 | 14026.7 | 14110.5 | 14168.9 | 14059.7 | 13953.1 | 13694.2 | 13303.3 |
| 5°    | 13293.2 | 13397.2 | 13694.2 | 14440.5 | 15029.4 | 15283.2 | 15359.3 | 15031.9 | 14491.2 | 13826.2 | 13026.6 |
| 7.5°  | 12516.4 | 12656.0 | 13112.9 | 14364.3 | 15402.5 | 15996.5 | 15917.8 | 15326.3 | 14351.6 | 13166.2 | 12049.4 |
| 10°   | 11595.0 | 11749.9 | 12300.7 | 13813.5 | 15151.2 | 15968.5 | 15968.5 | 15247.7 | 13953.1 | 12544.3 | 11257.4 |
| 12.5° | 10864.0 | 11026.4 | 11655.9 | 13247.5 | 14628.3 | 15402.5 | 15531.9 | 14912.6 | 13666.3 | 12150.9 | 10737.1 |
| 15°   | 10622.8 | 10780.2 | 11457.9 | 12904.8 | 14075.0 | 14547.1 | 14590.2 | 14387.2 | 13526.7 | 12178.8 | 10714.2 |
| 17.5° | 10922.4 | 11125.4 | 11810.8 | 13006.3 | 13567.3 | 13595.2 | 13628.2 | 13788.1 | 13541.9 | 12689.0 | 11176.2 |
| 20°   | 11787.9 | 12006.2 | 12722.0 | 13333.8 | 13123.1 | 12833.7 | 12851.5 | 13262.7 | 13722.1 | 13531.8 | 12280.4 |
| 22.5° | 13036.8 | 13227.2 | 13960.7 | 13910.0 | 12935.2 | 12338.7 | 12214.4 | 12788.0 | 13988.6 | 14582.6 | 13455.6 |
| 25°   | 14384.6 | 14608.0 | 15450.7 | 14765.4 | 12988.6 | 12044.3 | 11965.6 | 12508.8 | 14265.3 | 15564.9 | 14813.6 |
| 27.5° | 15927.9 | 16146.2 | 16811.3 | 15628.4 | 13267.8 | 12021.5 | 11927.5 | 12483.4 | 14514.1 | 16473.7 | 16110.7 |
| 30°   | 17075.2 | 17275.8 | 17727.6 | 16354.4 | 13610.4 | 12173.8 | 12057.0 | 12684.0 | 14727.3 | 17095.5 | 17374.8 |
| 32.5° | 17976.3 | 18184.5 | 18430.7 | 16806.2 | 14062.3 | 12450.4 | 12234.7 | 13049.5 | 15006.5 | 17570.2 | 18311.4 |
| 35°   | 18915.5 | 19161.7 | 19144.0 | 17207.2 | 14483.6 | 12770.3 | 12559.6 | 13577.4 | 15445.6 | 17984.0 | 19499.3 |
| 37.5° | 20106.0 | 20205.0 | 20078.1 | 17567.7 | 14988.7 | 13346.5 | 13229.7 | 14361.8 | 16070.1 | 18484.0 | 20887.8 |
| 40°   | 21314.2 | 21512.2 | 20859.9 | 18004.3 | 15603.0 | 14430.3 | 14417.6 | 15521.8 | 16811.3 | 19070.4 | 22233.1 |
| 42.5° | 22349.9 | 22517.4 | 21590.9 | 18385.0 | 16346.7 | 15752.8 | 15849.2 | 17077.8 | 17783.4 | 19750.6 | 23314.4 |
| 45°   | 23129.1 | 23278.9 | 22266.1 | 18753.1 | 17326.5 | 17280.8 | 17849.4 | 18745.4 | 19009.4 | 20362.4 | 23949.0 |
| 47.5° | 23791.6 | 23936.3 | 22735.7 | 19311.5 | 18537.3 | 19105.9 | 20095.8 | 20484.2 | 20057.8 | 20712.6 | 24659.7 |
| 50°   | 24350.0 | 24393.2 | 23058.0 | 19976.5 | 20040.0 | 21342.1 | 22301.6 | 22552.9 | 21093.4 | 21215.2 | 25276.5 |
| 52.5° | 24931.3 | 24875.5 | 23613.9 | 20814.2 | 21664.5 | 23464.2 | 24162.2 | 24423.7 | 22085.9 | 21834.6 | 26175.1 |
| 55°   | 26233.5 | 26286.8 | 24860.2 | 21870.1 | 23306.8 | 25548.1 | 26467.0 | 26215.7 | 23185.0 | 22974.3 | 27317.3 |
| 57.5° | 27807.2 | 27761.5 | 26614.2 | 23522.6 | 24979.5 | 27487.4 | 28172.7 | 27769.2 | 24652.1 | 24540.4 | 28474.8 |
| 60°   | 28419.0 | 28479.9 | 28081.4 | 25299.4 | 26629.5 | 29185.5 | 29886.1 | 29259.1 | 26411.2 | 26360.4 | 29348.0 |
| 62.5° | 27804.7 | 28147.4 | 28416.4 | 26880.7 | 28035.7 | 30434.4 | 31129.9 | 30414.1 | 28246.4 | 28614.4 | 29959.7 |
| 65°   | 26581.2 | 26654.8 | 27571.2 | 28221.0 | 28713.4 | 30640.0 | 31003.0 | 30622.2 | 29779.5 | 30667.9 | 29931.8 |
| 67.5° | 24992.2 | 25055.7 | 26129.4 | 28660.1 | 27840.2 | 28304.7 | 28558.6 | 28446.9 | 29304.8 | 31371.0 | 28553.5 |
| 70°   | 23479.4 | 23428.6 | 24563.3 | 27540.7 | 24235.8 | 23530.2 | 23740.9 | 23390.6 | 25286.7 | 29652.6 | 25850.2 |
| 72.5° | 20535.0 | 20717.7 | 21936.1 | 24428.7 | 19189.7 | 18042.3 | 18501.8 | 17595.6 | 19448.6 | 25395.8 | 20981.7 |
| 75°   | 16085.3 | 16128.4 | 18161.6 | 20502.0 | 14476.0 | 12666.2 | 13288.1 | 12909.9 | 14897.4 | 21184.8 | 14488.7 |
| 77.5° | 11138.1 | 11041.7 | 13227.2 | 15658.9 | 10323.3 | 9272.5  | 9282.6  | 9102.4  | 10402.0 | 15597.9 | 9843.6  |
| 80°   | 7074.3  | 6927.1  | 8280.0  | 9673.5  | 7094.6  | 7589.6  | 7340.8  | 7333.2  | 6772.2  | 9622.7  | 5952.3  |
| 82.5° | 3822.7  | 3985.2  | 5231.5  | 6064.0  | 5089.3  | 5866.0  | 5376.1  | 5218.8  | 4647.7  | 6023.4  | 3807.5  |
| 85°   | 1741.3  | 1893.6  | 2789.6  | 4124.8  | 3865.9  | 3909.0  | 2611.9  | 3081.5  | 3845.5  | 4891.3  | 2033.2  |
| 87.5° | 170.1   | 218.3   | 576.2   | 1946.9  | 1319.9  | 1040.7  | 388.4   | 748.8   | 967.1   | 1738.7  | 162.5   |
| 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°    | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 |
| 2.5°  | 13143.4 | 13011.4 | 12562.1 | 12191.5 | 11798.1 | 11498.6 | 11107.7 | 10846.2 | 10666.0 | 10394.4 | 10361.4 |
| 5°    | 12539.3 | 12216.9 | 11435.1 | 10638.1 | 9950.2  | 9432.4  | 8906.9  | 8424.7  | 8140.4  | 8051.5  | 7937.3  |
| 7.5°  | 11521.4 | 10978.2 | 9973.0  | 9059.2  | 8269.8  | 7498.2  | 6904.2  | 6482.9  | 6201.1  | 6036.1  | 5838.1  |
| 10°   | 10683.8 | 10054.3 | 8830.8  | 7711.4  | 7061.6  | 6581.8  | 6059.0  | 5607.1  | 5259.4  | 4962.4  | 4800.0  |
| 12.5° | 10120.3 | 9409.5  | 8033.8  | 7125.0  | 6622.5  | 6112.3  | 5500.5  | 4992.9  | 4480.1  | 4142.5  | 3997.8  |
| 15°   | 9950.2  | 9198.9  | 7787.5  | 6833.1  | 6112.3  | 5444.7  | 4759.3  | 4096.8  | 3589.2  | 3269.3  | 3162.7  |
| 17.5° | 10366.5 | 9457.8  | 7785.0  | 6444.8  | 5513.2  | 4716.2  | 3837.9  | 3216.0  | 2695.7  | 2457.1  | 2380.9  |
| 20°   | 11143.2 | 9955.3  | 7807.9  | 6061.5  | 4863.4  | 3741.5  | 2792.1  | 2281.9  | 2033.2  | 1931.7  | 1893.6  |
| 22.5° | 12227.1 | 10714.2 | 7876.4  | 5683.3  | 4152.7  | 2873.4  | 2091.6  | 1832.7  | 1743.8  | 1726.1  | 1718.4  |
| 25°   | 13562.2 | 11653.4 | 8107.4  | 5343.2  | 3553.6  | 2193.1  | 1748.9  | 1632.1  | 1581.4  | 1563.6  | 1561.1  |
| 27.5° | 14790.8 | 12866.7 | 8386.6  | 5051.2  | 2974.9  | 1891.0  | 1581.4  | 1482.4  | 1431.6  | 1429.1  | 1434.1  |
| 30°   | 15900.0 | 13882.0 | 8620.1  | 4723.8  | 2535.8  | 1680.4  | 1472.2  | 1373.2  | 1325.0  | 1322.5  | 1337.7  |
| 32.5° | 16859.5 | 14717.1 | 8792.7  | 4401.4  | 2292.1  | 1550.9  | 1373.2  | 1266.6  | 1226.0  | 1218.4  | 1226.0  |
| 35°   | 17885.0 | 15549.7 | 8714.0  | 4150.1  | 2152.5  | 1444.3  | 1299.6  | 1195.5  | 1147.3  | 1124.5  | 1124.5  |
| 37.5° | 19055.1 | 16407.7 | 8579.5  | 3942.0  | 2089.0  | 1355.5  | 1236.2  | 1134.6  | 1086.4  | 1063.6  | 1061.0  |
| 40°   | 20331.9 | 17265.6 | 8394.2  | 3756.7  | 2025.6  | 1302.2  | 1193.0  | 1086.4  | 1028.0  | 1005.2  | 1000.1  |
| 42.5° | 21458.9 | 17999.2 | 8241.9  | 3634.9  | 1921.5  | 1312.3  | 1154.9  | 1050.9  | 977.3   | 946.8   | 944.3   |
| 45°   | 22438.7 | 18737.8 | 8214.0  | 3563.8  | 1835.2  | 1297.1  | 1144.8  | 1022.9  | 936.6   | 903.6   | 898.6   |
| 47.5° | 23205.3 | 19506.9 | 8373.9  | 3523.2  | 1741.3  | 1215.9  | 1210.8  | 1005.2  | 901.1   | 865.6   | 860.5   |
| 50°   | 24139.4 | 20598.4 | 8739.4  | 3439.4  | 1655.0  | 1139.7  | 1279.3  | 1002.6  | 873.2   | 827.5   | 814.8   |
| 52.5° | 25383.1 | 22019.9 | 9234.4  | 3289.7  | 1530.6  | 1068.6  | 1220.9  | 1002.6  | 840.2   | 794.5   | 779.3   |
| 55°   | 27264.0 | 23832.2 | 9719.2  | 3079.0  | 1355.5  | 974.7   | 1101.6  | 972.2   | 792.0   | 751.3   | 741.2   |
| 57.5° | 28510.3 | 25157.2 | 10028.9 | 2787.1  | 1137.2  | 906.2   | 949.3   | 923.9   | 743.7   | 700.6   | 700.6   |
| 60°   | 28573.8 | 25512.6 | 9881.7  | 2419.0  | 1000.1  | 842.7   | 825.0   | 931.6   | 700.6   | 654.9   | 649.8   |
| 62.5° | 27842.8 | 24642.0 | 9115.1  | 2089.0  | 926.5   | 774.2   | 746.3   | 817.3   | 657.4   | 611.7   | 604.1   |
| 65°   | 26700.5 | 22420.9 | 7785.0  | 1931.7  | 885.9   | 713.3   | 672.7   | 670.1   | 611.7   | 568.6   | 558.4   |
| 67.5° | 24601.3 | 19593.2 | 6396.6  | 1840.3  | 865.6   | 644.7   | 606.7   | 594.0   | 558.4   | 522.9   | 517.8   |
| 70°   | 21507.1 | 16410.2 | 5129.9  | 1802.2  | 855.4   | 573.7   | 543.2   | 528.0   | 497.5   | 469.6   | 467.0   |
| 72.5° | 16732.6 | 13310.9 | 4233.9  | 1776.8  | 850.3   | 507.7   | 474.7   | 454.4   | 436.6   | 411.2   | 411.2   |
| 75°   | 12018.9 | 9792.8  | 3231.3  | 1601.7  | 786.9   | 436.6   | 401.1   | 388.4   | 363.0   | 342.7   | 347.7   |
| 77.5° | 7576.9  | 6594.5  | 2127.1  | 1177.8  | 609.2   | 350.3   | 319.8   | 312.2   | 291.9   | 264.0   | 281.8   |
| 80°   | 5117.2  | 4637.5  | 1241.2  | 741.2   | 383.3   | 256.4   | 246.2   | 243.7   | 220.8   | 190.4   | 192.9   |
| 82.5° | 3482.6  | 3416.6  | 644.7   | 421.4   | 220.8   | 149.8   | 144.7   | 149.8   | 124.4   | 101.5   | 101.5   |
| 85°   | 1360.5  | 1858.0  | 304.6   | 165.0   | 71.1    | 22.8    | 33.0    | 35.5    | 20.3    | 10.2    | 12.7    |
| 87.5° | 25.4    | 190.4   | 7.6     | 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     |





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**CANDELA DISTRIBUTION (continued):**

|       | 185°    | 195°    | 205°    | 215°    | 225°    | 235°    | 245°    | 255°    | 265°    | 270°    | 275°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 |
| 2.5°  | 10310.6 | 10287.8 | 10325.9 | 10163.4 | 10196.4 | 10257.3 | 10287.8 | 10305.6 | 10556.8 | 10498.5 | 10658.4 |
| 5°    | 8043.9  | 8021.1  | 8168.3  | 8188.6  | 8264.8  | 8249.5  | 8323.1  | 8340.9  | 8432.3  | 8465.3  | 8688.6  |
| 7.5°  | 5850.8  | 5949.8  | 6117.3  | 6203.6  | 6333.1  | 6373.7  | 6335.6  | 6429.5  | 6239.2  | 6376.2  | 6416.9  |
| 10°   | 4701.0  | 4581.7  | 4510.6  | 4708.6  | 4734.0  | 4921.8  | 4845.6  | 4784.7  | 4896.4  | 4901.5  | 5008.1  |
| 12.5° | 3914.1  | 3657.7  | 3487.6  | 3543.5  | 3604.4  | 3685.6  | 3698.3  | 3820.2  | 3901.4  | 3977.5  | 4041.0  |
| 15°   | 3068.8  | 2980.0  | 2825.1  | 2749.0  | 2835.3  | 2868.3  | 2947.0  | 3048.5  | 3134.8  | 3157.7  | 3244.0  |
| 17.5° | 2355.6  | 2370.8  | 2345.4  | 2299.7  | 2353.0  | 2378.4  | 2383.5  | 2386.0  | 2408.9  | 2393.6  | 2520.5  |
| 20°   | 1896.1  | 1949.4  | 2012.9  | 2023.0  | 2040.8  | 2053.5  | 2030.7  | 1944.3  | 1946.9  | 2000.2  | 2040.8  |
| 22.5° | 1715.9  | 1726.1  | 1797.1  | 1820.0  | 1875.8  | 1853.0  | 1787.0  | 1746.4  | 1741.3  | 1754.0  | 1774.3  |
| 25°   | 1573.8  | 1589.0  | 1639.8  | 1675.3  | 1718.4  | 1677.8  | 1629.6  | 1591.5  | 1586.4  | 1599.1  | 1619.4  |
| 27.5° | 1446.8  | 1469.7  | 1515.4  | 1550.9  | 1591.5  | 1553.4  | 1507.8  | 1474.8  | 1472.2  | 1469.7  | 1482.4  |
| 30°   | 1345.3  | 1370.7  | 1403.7  | 1444.3  | 1472.2  | 1439.2  | 1396.1  | 1378.3  | 1375.8  | 1370.7  | 1375.8  |
| 32.5° | 1243.8  | 1284.4  | 1317.4  | 1337.7  | 1365.6  | 1340.2  | 1307.2  | 1297.1  | 1279.3  | 1264.1  | 1256.5  |
| 35°   | 1129.5  | 1172.7  | 1223.5  | 1248.9  | 1276.8  | 1251.4  | 1228.5  | 1185.4  | 1154.9  | 1152.4  | 1157.5  |
| 37.5° | 1063.6  | 1081.3  | 1121.9  | 1165.1  | 1193.0  | 1180.3  | 1137.2  | 1094.0  | 1086.4  | 1086.4  | 1091.5  |
| 40°   | 1005.2  | 1012.8  | 1030.6  | 1086.4  | 1137.2  | 1099.1  | 1045.8  | 1033.1  | 1033.1  | 1030.6  | 1033.1  |
| 42.5° | 946.8   | 954.4   | 954.4   | 997.6   | 1078.8  | 1017.9  | 977.3   | 977.3   | 977.3   | 979.8   | 987.4   |
| 45°   | 893.5   | 896.0   | 893.5   | 923.9   | 1000.1  | 949.3   | 921.4   | 929.0   | 934.1   | 939.2   | 944.3   |
| 47.5° | 847.8   | 850.3   | 847.8   | 873.2   | 911.3   | 890.9   | 875.7   | 885.9   | 896.0   | 903.6   | 908.7   |
| 50°   | 807.2   | 804.6   | 809.7   | 825.0   | 842.7   | 847.8   | 837.6   | 852.9   | 858.0   | 868.1   | 880.8   |
| 52.5° | 771.6   | 769.1   | 774.2   | 781.8   | 807.2   | 807.2   | 807.2   | 819.9   | 830.0   | 840.2   | 858.0   |
| 55°   | 731.0   | 733.6   | 741.2   | 751.3   | 784.3   | 779.3   | 781.8   | 792.0   | 802.1   | 817.3   | 827.5   |
| 57.5° | 693.0   | 698.0   | 708.2   | 723.4   | 756.4   | 753.9   | 756.4   | 761.5   | 774.2   | 781.8   | 792.0   |
| 60°   | 649.8   | 660.0   | 672.7   | 682.8   | 715.8   | 713.3   | 726.0   | 736.1   | 743.7   | 743.7   | 748.8   |
| 62.5° | 606.7   | 621.9   | 634.6   | 642.2   | 677.7   | 680.3   | 698.0   | 705.7   | 710.7   | 705.7   | 713.3   |
| 65°   | 563.5   | 586.4   | 591.4   | 601.6   | 637.1   | 639.7   | 660.0   | 677.7   | 672.7   | 667.6   | 680.3   |
| 67.5° | 520.4   | 548.3   | 545.7   | 558.4   | 594.0   | 599.0   | 616.8   | 647.3   | 637.1   | 632.0   | 642.2   |
| 70°   | 472.1   | 492.4   | 495.0   | 502.6   | 550.8   | 543.2   | 571.1   | 599.0   | 591.4   | 594.0   | 594.0   |
| 72.5° | 418.8   | 436.6   | 436.6   | 451.8   | 502.6   | 489.9   | 512.7   | 543.2   | 543.2   | 540.7   | 540.7   |
| 75°   | 355.4   | 365.5   | 375.7   | 398.5   | 451.8   | 436.6   | 451.8   | 479.7   | 484.8   | 479.7   | 479.7   |
| 77.5° | 286.8   | 302.1   | 307.1   | 337.6   | 375.7   | 373.1   | 388.4   | 401.1   | 411.2   | 406.1   | 406.1   |
| 80°   | 203.1   | 218.3   | 238.6   | 271.6   | 294.4   | 302.1   | 309.7   | 319.8   | 324.9   | 324.9   | 330.0   |
| 82.5° | 114.2   | 137.1   | 154.8   | 187.8   | 198.0   | 236.1   | 233.5   | 241.1   | 233.5   | 205.6   | 228.4   |
| 85°   | 25.4    | 48.2    | 68.5    | 86.3    | 99.0    | 137.1   | 144.7   | 162.5   | 134.5   | 124.4   | 124.4   |
| 87.5° | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 20.3    | 40.6    | 55.8    | 48.2    | 40.6    | 40.6    |
| 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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| 0°    | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 | 12366.7 |
| 2.5°  | 10792.9 | 11013.7 | 11280.3 | 11739.7 | 12062.1 | 12409.8 | 12760.1 | 13133.2 | 13232.2 | 13333.8 |
| 5°    | 8749.6  | 9183.6  | 9419.7  | 10036.5 | 10683.8 | 11506.2 | 12178.8 | 12914.9 | 13222.1 | 13293.2 |
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| 10°   | 5254.3  | 5655.4  | 6198.6  | 6868.7  | 7571.8  | 8500.8  | 9663.4  | 11003.6 | 11511.3 | 11595.0 |
| 12.5° | 4472.5  | 4919.3  | 5510.7  | 6218.9  | 6883.9  | 7584.5  | 8757.2  | 10140.6 | 10683.8 | 10864.0 |
| 15°   | 3576.5  | 4117.1  | 4800.0  | 5546.2  | 6269.6  | 7036.2  | 8224.1  | 9785.2  | 10412.2 | 10622.8 |
| 17.5° | 2809.9  | 3246.5  | 3985.2  | 4794.9  | 5652.8  | 6622.5  | 8112.5  | 9955.3  | 10726.9 | 10922.4 |
| 20°   | 2150.0  | 2462.2  | 3084.1  | 3939.5  | 4944.6  | 6213.8  | 8140.4  | 10597.5 | 11521.4 | 11787.9 |
| 22.5° | 1858.0  | 2018.0  | 2396.2  | 3211.0  | 4335.4  | 5858.4  | 8254.6  | 11478.3 | 12592.6 | 13036.8 |
| 25°   | 1682.9  | 1766.7  | 1979.9  | 2512.9  | 3754.2  | 5513.2  | 8516.0  | 12663.6 | 14090.2 | 14384.6 |
| 27.5° | 1533.1  | 1594.1  | 1726.1  | 2109.3  | 3226.2  | 5193.4  | 8820.6  | 13978.5 | 15488.8 | 15927.9 |
| 30°   | 1391.0  | 1472.2  | 1596.6  | 1873.3  | 2888.6  | 4901.5  | 9203.9  | 15044.6 | 16666.6 | 17075.2 |
| 32.5° | 1281.8  | 1363.1  | 1477.3  | 1708.3  | 2601.8  | 4594.3  | 9432.4  | 15981.2 | 17628.6 | 17976.3 |
| 35°   | 1193.0  | 1261.5  | 1380.8  | 1576.3  | 2383.5  | 4360.8  | 9386.7  | 16725.0 | 18560.2 | 18915.5 |
| 37.5° | 1129.5  | 1187.9  | 1307.2  | 1451.9  | 2218.5  | 4117.1  | 9363.8  | 17707.3 | 19694.8 | 20106.0 |
| 40°   | 1071.2  | 1132.1  | 1241.2  | 1370.7  | 2053.5  | 3830.3  | 9376.5  | 18682.0 | 20903.0 | 21314.2 |
| 42.5° | 1025.5  | 1094.0  | 1182.9  | 1347.8  | 1883.4  | 3599.3  | 9376.5  | 19529.8 | 21953.9 | 22349.9 |
| 45°   | 987.4   | 1061.0  | 1147.3  | 1345.3  | 1748.9  | 3424.2  | 9313.1  | 20258.3 | 22791.5 | 23129.1 |
| 47.5° | 954.4   | 1035.6  | 1160.0  | 1299.6  | 1715.9  | 3297.3  | 9257.2  | 20842.1 | 23474.3 | 23791.6 |
| 50°   | 931.6   | 1028.0  | 1233.6  | 1246.3  | 1726.1  | 3259.2  | 9526.3  | 21578.2 | 24075.9 | 24350.0 |
| 52.5° | 913.8   | 1030.6  | 1231.1  | 1167.6  | 1708.3  | 3284.6  | 10087.3 | 22728.1 | 24911.0 | 24931.3 |
| 55°   | 878.3   | 1028.0  | 1167.6  | 1078.8  | 1634.7  | 3327.7  | 10808.1 | 24398.3 | 26218.2 | 26233.5 |
| 57.5° | 842.7   | 1000.1  | 1083.9  | 1002.6  | 1484.9  | 3327.7  | 11676.2 | 25979.6 | 27794.5 | 27807.2 |
| 60°   | 807.2   | 1040.7  | 951.9   | 936.6   | 1289.5  | 3266.8  | 12592.6 | 26675.1 | 28289.5 | 28419.0 |
| 62.5° | 771.6   | 1048.3  | 850.3   | 878.3   | 1147.3  | 3119.6  | 13275.4 | 25906.0 | 27619.4 | 27804.7 |
| 65°   | 731.0   | 845.3   | 784.3   | 817.3   | 1073.7  | 2873.4  | 13059.6 | 24497.3 | 26360.4 | 26581.2 |
| 67.5° | 682.8   | 715.8   | 713.3   | 753.9   | 1048.3  | 2510.4  | 11922.5 | 22715.4 | 25004.9 | 24992.2 |
| 70°   | 624.4   | 642.2   | 649.8   | 693.0   | 1000.1  | 2228.6  | 9935.0  | 20403.0 | 23195.1 | 23479.4 |
| 72.5° | 563.5   | 578.7   | 586.4   | 624.4   | 951.9   | 2068.7  | 7711.4  | 17217.4 | 20090.8 | 20535.0 |
| 75°   | 497.5   | 507.7   | 517.8   | 550.8   | 901.1   | 1832.7  | 5492.9  | 13143.4 | 15387.3 | 16085.3 |
| 77.5° | 429.0   | 429.0   | 441.7   | 474.7   | 759.0   | 1512.8  | 3685.6  | 9219.2  | 10424.9 | 11138.1 |
| 80°   | 347.7   | 350.3   | 345.2   | 380.7   | 558.4   | 1035.6  | 2094.1  | 6157.9  | 6937.2  | 7074.3  |
| 82.5° | 266.5   | 258.9   | 261.4   | 279.2   | 416.3   | 705.7   | 1116.9  | 3825.2  | 3898.9  | 3822.7  |
| 85°   | 167.5   | 167.5   | 162.5   | 182.8   | 266.5   | 368.1   | 609.2   | 2342.9  | 1830.1  | 1741.3  |
| 87.5° | 68.5    | 55.8    | 63.5    | 73.6    | 126.9   | 149.8   | 238.6   | 482.3   | 185.3   | 170.1   |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |

(END OF REPORT)