

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: P943473

Luminaire Tested: **GALN-SB8A-722-U-T1**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P943473  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8A-722-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2200K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 29643 lumens  
Efficiency: N/A  
Efficacy: 130.5 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5

Input Watts (W): 227.1  
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



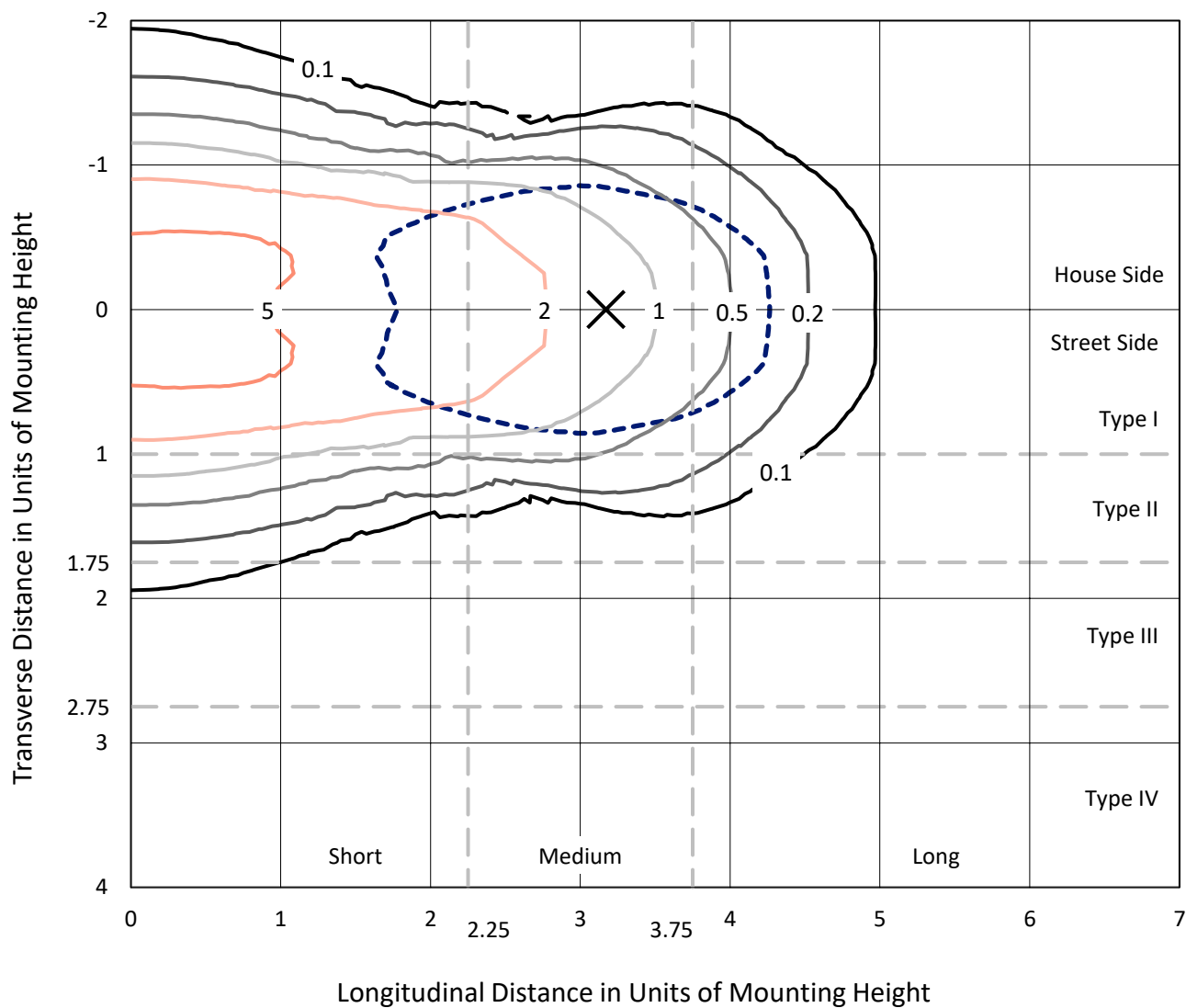
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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd

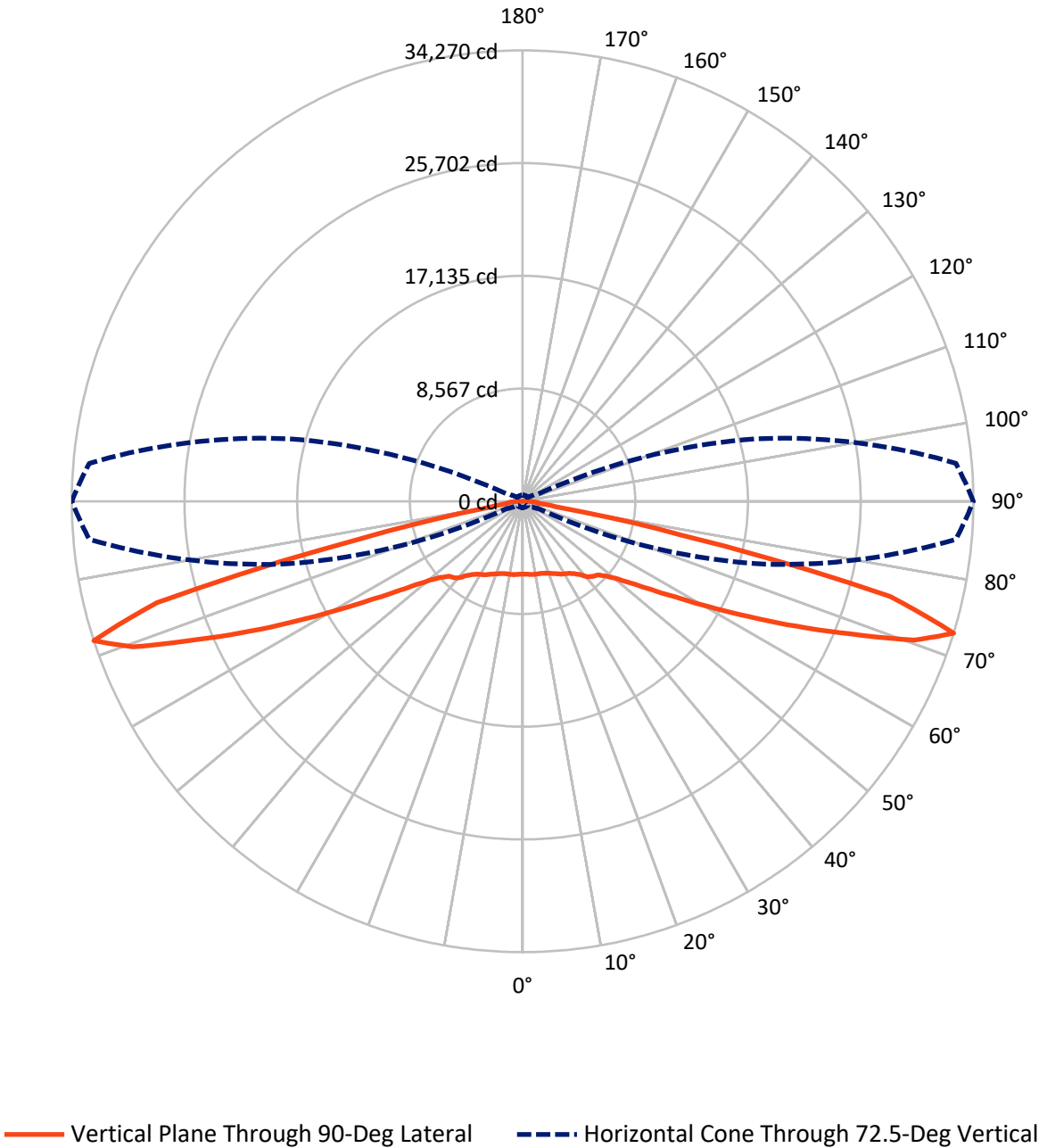
--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.9 fc  
Type I - 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    | 14821.5  | 0.0    | 14821.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14821.5  | 0.0    | 14821.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 29643.0  | 0.0    | 29643.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 537.1   | 1.8       |
| 10°-20°   | 1642.2  | 5.5       |
| 20°-30°   | 2738.2  | 9.2       |
| 30°-40°   | 3765.9  | 12.7      |
| 40°-50°   | 4599.2  | 15.5      |
| 50°-60°   | 5319.4  | 17.9      |
| 60°-70°   | 6342.5  | 21.4      |
| 70°-80°   | 4426.7  | 14.9      |
| 80°-90°   | 271.9   | 0.9       |
| 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°    | 29643.0 | 100.0     |
| 0°-180°   | 29643.0 | 100.0     |

**Coefficient of Utilization**



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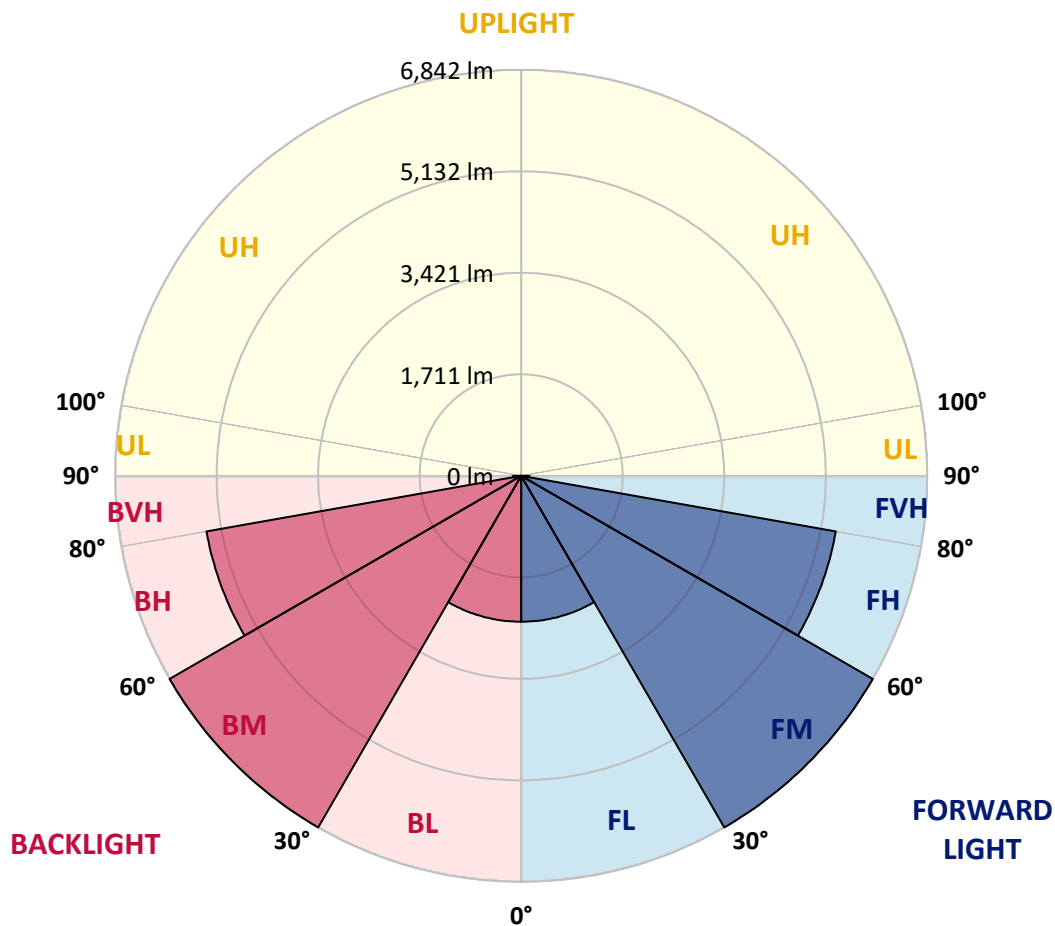
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2458.7 | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 6842.2 | 23.1      |                         |      |         |
| FH   | (60°-80°)   | 5384.6 | 18.2      |                         |      | G3/7500 |
| FVH  | (80°-90°)   | 135.9  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2458.7 | 8.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6842.2 | 23.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 5384.6 | 18.2      | B5                      |      | G5      |
| BVH  | (80°-90°)   | 135.9  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G5**

Type I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°     | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0°    | 5539.1 | 5539.1 | 5539.1 | 5539.1 | 5539.1 | 5539.1 | 5539.1 | 5539.1  | 5539.1  | 5539.1  | 5539.1  |
| 2.5°  | 5543.8 | 5550.1 | 5550.1 | 5545.4 | 5556.4 | 5547.0 | 5547.0 | 5542.3  | 5547.0  | 5542.3  | 5542.3  |
| 5°    | 5572.2 | 5580.1 | 5583.2 | 5581.6 | 5595.8 | 5587.9 | 5587.9 | 5581.6  | 5583.2  | 5578.5  | 5578.5  |
| 7.5°  | 5625.8 | 5636.8 | 5643.1 | 5651.0 | 5671.4 | 5662.0 | 5655.7 | 5636.8  | 5628.9  | 5616.3  | 5616.3  |
| 10°   | 5643.1 | 5655.7 | 5676.2 | 5717.1 | 5764.4 | 5766.0 | 5747.1 | 5699.8  | 5663.6  | 5635.2  | 5630.5  |
| 12.5° | 5589.5 | 5606.8 | 5649.4 | 5732.9 | 5838.4 | 5881.0 | 5851.0 | 5772.3  | 5701.4  | 5651.0  | 5643.1  |
| 15°   | 5521.8 | 5540.7 | 5605.3 | 5731.3 | 5887.3 | 5986.5 | 5983.4 | 5879.4  | 5766.0  | 5687.2  | 5674.6  |
| 17.5° | 5416.2 | 5435.1 | 5528.1 | 5704.5 | 5925.1 | 6088.9 | 6133.0 | 6025.9  | 5866.8  | 5761.2  | 5743.9  |
| 20°   | 5225.6 | 5242.9 | 5372.1 | 5619.5 | 5937.7 | 6197.6 | 6312.6 | 6218.1  | 6019.6  | 5876.2  | 5849.5  |
| 22.5° | 4978.3 | 5005.0 | 5156.3 | 5472.9 | 5907.8 | 6311.1 | 6517.4 | 6452.8  | 6197.6  | 5999.1  | 5962.9  |
| 25°   | 4713.6 | 4742.0 | 4918.4 | 5293.3 | 5830.6 | 6393.0 | 6760.0 | 6719.1  | 6399.3  | 6151.9  | 6101.5  |
| 27.5° | 4485.2 | 4515.1 | 4707.3 | 5115.3 | 5710.8 | 6424.5 | 6999.5 | 7020.0  | 6643.5  | 6320.5  | 6266.9  |
| 30°   | 4305.6 | 4333.9 | 4538.7 | 4972.0 | 5556.4 | 6393.0 | 7209.0 | 7350.8  | 6892.4  | 6467.0  | 6389.8  |
| 32.5° | 4108.6 | 4144.9 | 4360.7 | 4797.1 | 5373.7 | 6317.4 | 7391.8 | 7708.4  | 7180.7  | 6624.6  | 6526.9  |
| 35°   | 3859.7 | 3892.8 | 4119.7 | 4557.6 | 5134.2 | 6196.0 | 7544.6 | 8105.4  | 7593.4  | 6864.0  | 6755.3  |
| 37.5° | 3557.3 | 3588.8 | 3814.0 | 4258.3 | 4896.3 | 6025.9 | 7661.2 | 8552.8  | 8085.0  | 7209.0  | 7064.1  |
| 40°   | 3253.2 | 3283.1 | 3494.2 | 3924.3 | 4611.2 | 5808.5 | 7702.1 | 8990.8  | 8648.9  | 7683.2  | 7528.8  |
| 42.5° | 2974.4 | 3001.1 | 3194.9 | 3595.1 | 4291.4 | 5531.2 | 7648.6 | 9372.1  | 9154.7  | 8014.1  | 7815.6  |
| 45°   | 2717.6 | 2741.2 | 2912.9 | 3286.3 | 3959.0 | 5194.1 | 7487.9 | 9781.7  | 9756.5  | 8250.4  | 7982.6  |
| 47.5° | 2424.5 | 2448.2 | 2626.2 | 2987.0 | 3626.6 | 4798.7 | 7215.3 | 10185.0 | 10593.0 | 8786.0  | 8477.2  |
| 50°   | 2066.9 | 2087.4 | 2270.2 | 2641.9 | 3281.6 | 4378.0 | 6837.2 | 10501.6 | 11648.5 | 9597.3  | 9209.8  |
| 52.5° | 1643.1 | 1665.2 | 1843.2 | 2215.0 | 2872.0 | 3925.9 | 6339.4 | 10708.0 | 12867.9 | 10782.0 | 10304.7 |
| 55°   | 1222.5 | 1238.3 | 1392.7 | 1726.6 | 2364.7 | 3410.7 | 5715.6 | 10766.3 | 14251.1 | 12401.6 | 11804.5 |
| 57.5° | 887.0  | 896.4  | 995.7  | 1244.6 | 1792.8 | 2766.4 | 4957.8 | 10615.0 | 15897.4 | 14477.9 | 13726.5 |
| 60°   | 718.4  | 721.5  | 751.5  | 861.7  | 1246.1 | 2038.6 | 4042.5 | 10095.2 | 17683.9 | 17154.5 | 16207.7 |
| 62.5° | 652.2  | 652.2  | 660.1  | 690.0  | 842.8  | 1345.4 | 2935.0 | 9017.6  | 19599.6 | 20536.9 | 19268.7 |
| 65°   | 606.5  | 606.5  | 609.7  | 623.9  | 664.8  | 857.0  | 1852.7 | 7262.6  | 21214.3 | 24499.1 | 22895.3 |
| 67.5° | 565.6  | 567.1  | 565.6  | 570.3  | 593.9  | 633.3  | 1074.4 | 5016.1  | 22084.0 | 28604.5 | 26873.2 |
| 70°   | 523.0  | 526.2  | 518.3  | 518.3  | 537.2  | 538.8  | 672.7  | 2750.6  | 21362.4 | 32045.2 | 31589.9 |
| 72.5° | 472.6  | 477.3  | 464.7  | 461.6  | 475.8  | 469.5  | 505.7  | 1320.2  | 18340.8 | 33072.4 | 34269.7 |
| 75°   | 428.5  | 434.8  | 406.5  | 398.6  | 398.6  | 393.9  | 411.2  | 677.4   | 11903.7 | 26978.7 | 28856.6 |
| 77.5° | 389.1  | 401.7  | 356.0  | 330.8  | 324.5  | 310.4  | 335.6  | 414.3   | 5206.7  | 12666.2 | 12403.1 |
| 80°   | 321.4  | 338.7  | 293.0  | 263.1  | 252.1  | 236.3  | 264.7  | 289.9   | 1548.6  | 2941.3  | 2816.8  |
| 82.5° | 239.5  | 247.3  | 208.0  | 187.5  | 178.0  | 167.0  | 198.5  | 201.7   | 504.1   | 1041.3  | 1176.8  |
| 85°   | 152.8  | 156.0  | 127.6  | 110.3  | 105.6  | 100.8  | 126.0  | 110.3   | 192.2   | 765.6   | 1112.2  |
| 87.5° | 53.6   | 61.4   | 48.8   | 44.1   | 47.3   | 39.4   | 58.3   | 33.1    | 53.6    | 540.4   | 669.5   |
| 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)