

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: P943980

Luminaire Tested: **GALN-SB8D-722-U-5WQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P943980  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
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-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 68757 lumens  
Efficiency: N/A  
Efficacy: 117.6 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - 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



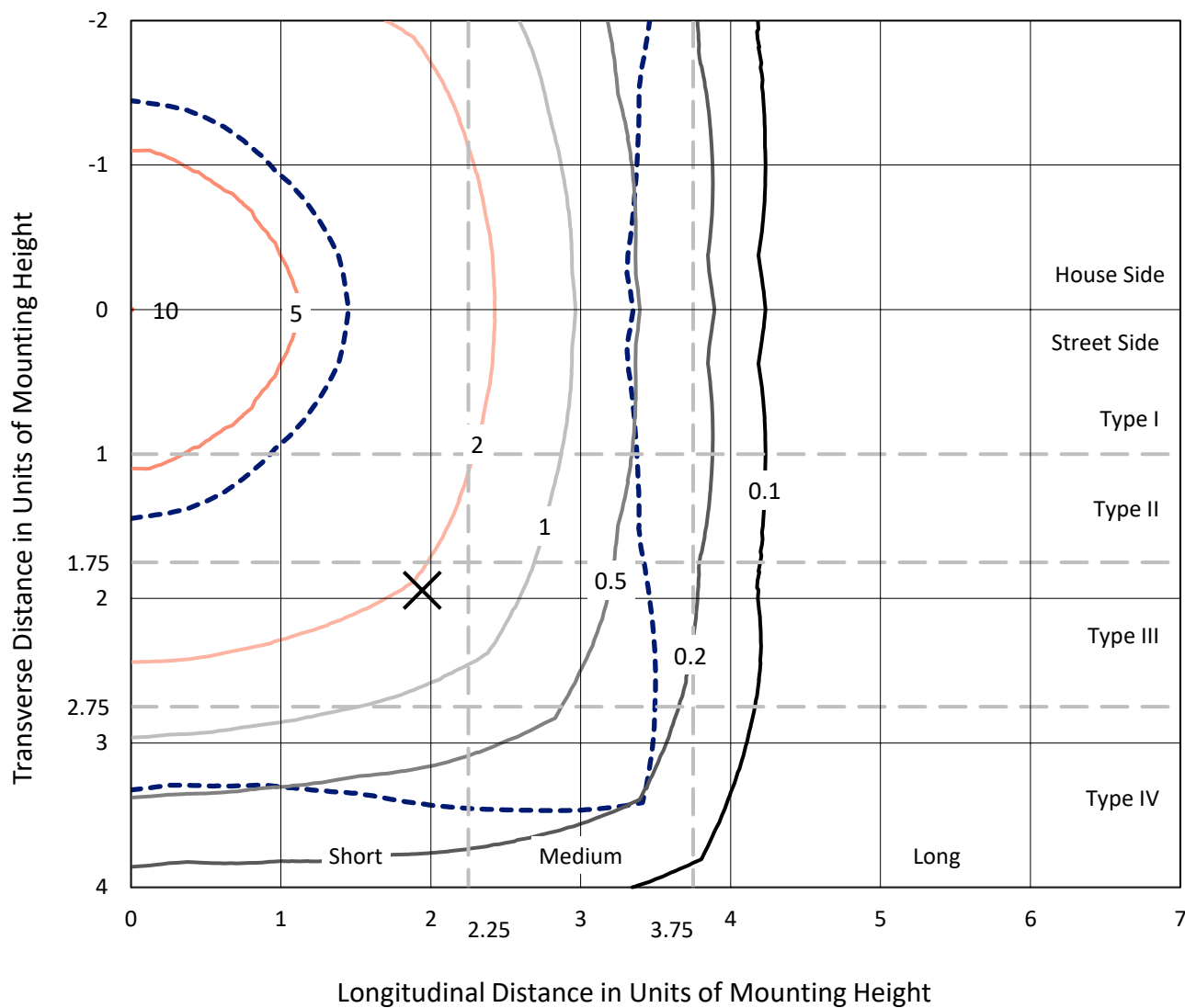
REPORT NUMBER: P943980

CATALOG NUMBER: GALN-SB8D-722-U-5WQ

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd



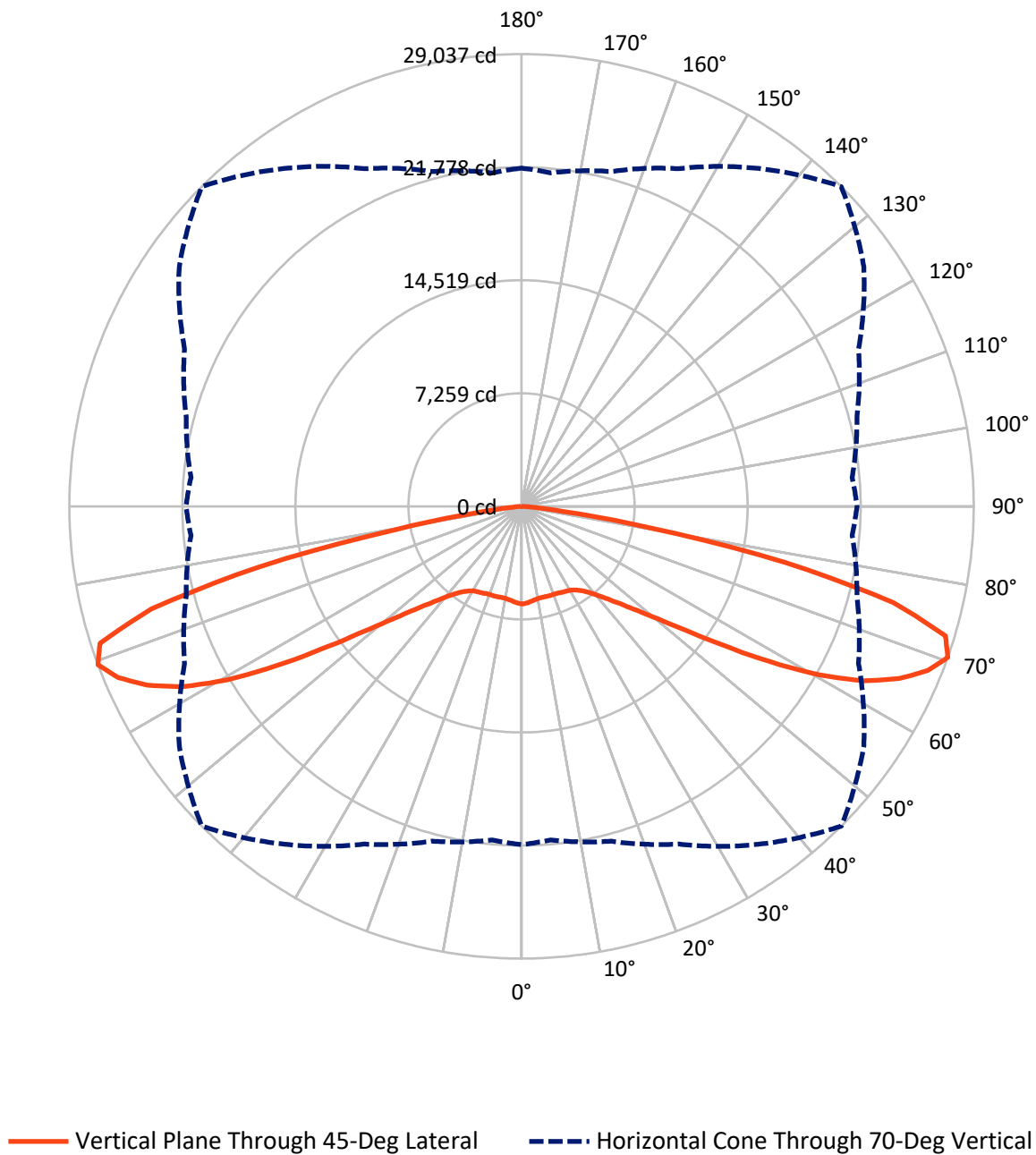
Based on 25 foot mounting height. Maximum calculated value = 10 fc

Type V - Short - N/A

REPORT NUMBER: P943980

CATALOG NUMBER: GALN-SB8D-722-U-5WQ

## Luminous Intensity Polar Plot



REPORT NUMBER: P943980

CATALOG NUMBER: GALN-SB8D-722-U-5WQ

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 34378.5  | 0.0    | 34378.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 34378.5  | 0.0    | 34378.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 68757.0  | 0.0    | 68757.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 583.4   | 0.8       |
| 10°-20°   | 1713.1  | 2.5       |
| 20°-30°   | 2850.9  | 4.1       |
| 30°-40°   | 4311.4  | 6.3       |
| 40°-50°   | 7164.6  | 10.4      |
| 50°-60°   | 13519.3 | 19.7      |
| 60°-70°   | 22827.9 | 33.2      |
| 70°-80°   | 15000.3 | 21.8      |
| 80°-90°   | 785.9   | 1.1       |
| 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°    | 68757.0 | 100.0     |
| 0°-180°   | 68757.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P943980

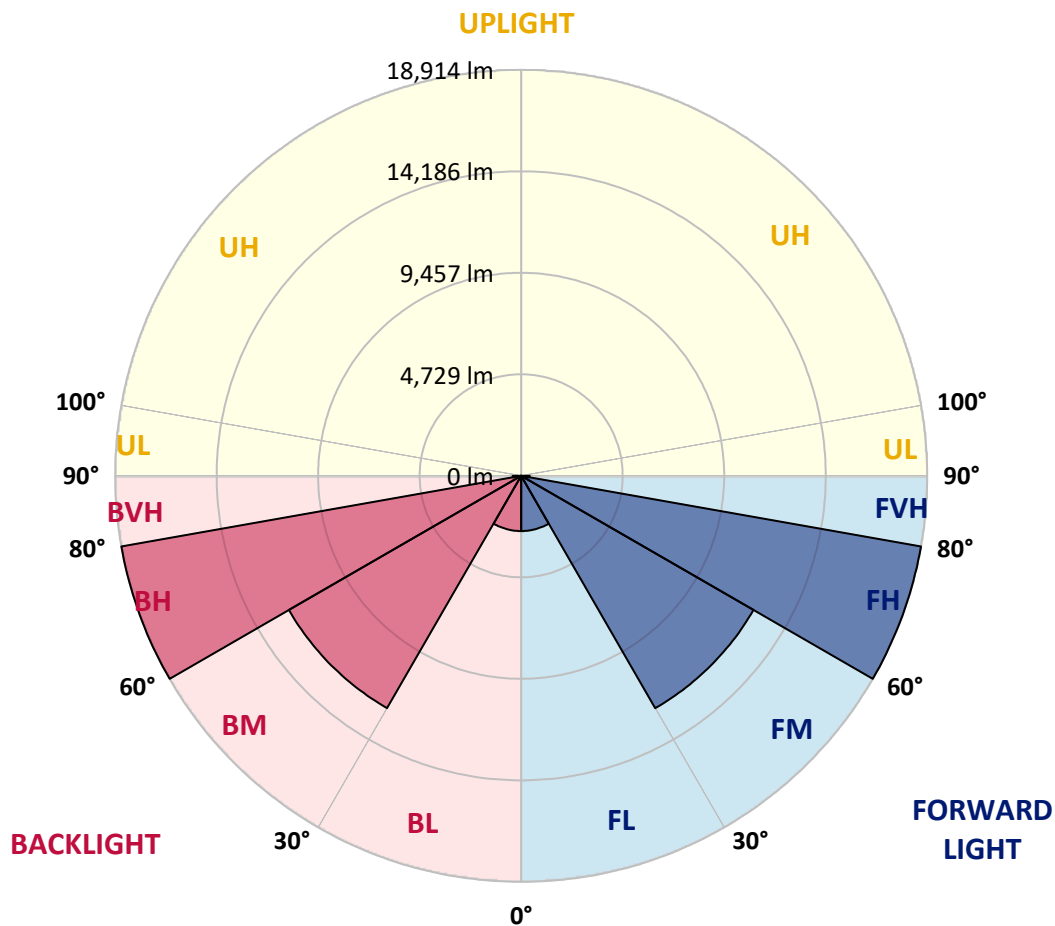
CATALOG NUMBER: GALN-SB8D-722-U-5WQ

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

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 2573.7  | 3.7       |                         |      |        |
| FM   | (30°-60°)   | 12497.7 | 18.2      |                         |      |        |
| FH   | (60°-80°)   | 18914.1 | 27.5      |                         |      | G5     |
| FVH  | (80°-90°)   | 392.9   | 0.6       |                         |      | G3/500 |
| BL   | (0°-30°)    | 2573.7  | 3.7       | B4/5000                 |      |        |
| BM   | (30°-60°)   | 12497.7 | 18.2      | B5                      |      |        |
| BH   | (60°-80°)   | 18914.1 | 27.5      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 392.9   | 0.6       |                         |      | G3/500 |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |        |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |        |

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

Type V Short



REPORT NUMBER: P943980

CATALOG NUMBER: GALN-SB8D-722-U-5WQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 6272.0  | 6272.0  | 6272.0  | 6272.0  | 6272.0  | 6272.0  | 6272.0  | 6272.0  | 6272.0  | 6272.0  | 6272.0  |
| 2.5°  | 6232.7  | 6250.6  | 6243.4  | 6229.1  | 6229.1  | 6218.4  | 6229.1  | 6236.3  | 6247.0  | 6254.2  | 6250.6  |
| 5°    | 6150.5  | 6164.8  | 6161.2  | 6150.5  | 6154.1  | 6143.4  | 6150.5  | 6161.2  | 6168.4  | 6172.0  | 6172.0  |
| 7.5°  | 6079.0  | 6093.3  | 6086.2  | 6068.3  | 6068.3  | 6057.6  | 6061.2  | 6071.9  | 6082.6  | 6086.2  | 6086.2  |
| 10°   | 6061.2  | 6075.5  | 6054.0  | 6025.4  | 6014.7  | 6000.4  | 6004.0  | 6014.7  | 6036.2  | 6046.9  | 6046.9  |
| 12.5° | 6068.3  | 6079.0  | 6057.6  | 6014.7  | 6004.0  | 5989.7  | 5989.7  | 6000.4  | 6029.0  | 6043.3  | 6046.9  |
| 15°   | 6089.8  | 6100.5  | 6068.3  | 6021.9  | 6011.1  | 6000.4  | 5996.8  | 6011.1  | 6043.3  | 6068.3  | 6071.9  |
| 17.5° | 6129.1  | 6139.8  | 6089.8  | 6025.4  | 6011.1  | 6014.7  | 6011.1  | 6021.9  | 6071.9  | 6118.3  | 6118.3  |
| 20°   | 6164.8  | 6172.0  | 6104.1  | 6025.4  | 6011.1  | 6014.7  | 6011.1  | 6032.6  | 6096.9  | 6161.2  | 6164.8  |
| 22.5° | 6175.5  | 6182.7  | 6118.3  | 6050.4  | 6039.7  | 6043.3  | 6039.7  | 6061.2  | 6121.9  | 6186.3  | 6186.3  |
| 25°   | 6179.1  | 6189.8  | 6139.8  | 6086.2  | 6104.1  | 6111.2  | 6104.1  | 6107.6  | 6154.1  | 6211.3  | 6207.7  |
| 27.5° | 6232.7  | 6247.0  | 6200.5  | 6154.1  | 6164.8  | 6161.2  | 6172.0  | 6182.7  | 6218.4  | 6275.6  | 6261.3  |
| 30°   | 6343.5  | 6354.2  | 6314.9  | 6268.4  | 6261.3  | 6236.3  | 6268.4  | 6304.2  | 6343.5  | 6393.5  | 6382.8  |
| 32.5° | 6525.8  | 6547.2  | 6497.2  | 6447.1  | 6415.0  | 6400.7  | 6425.7  | 6486.5  | 6540.1  | 6593.7  | 6572.2  |
| 35°   | 6829.5  | 6843.8  | 6797.4  | 6704.5  | 6647.3  | 6647.3  | 6668.7  | 6747.3  | 6833.1  | 6901.0  | 6876.0  |
| 37.5° | 7258.4  | 7276.3  | 7194.1  | 7083.3  | 6997.5  | 6997.5  | 7026.1  | 7108.3  | 7236.9  | 7333.4  | 7297.7  |
| 40°   | 7780.2  | 7805.2  | 7701.5  | 7587.2  | 7505.0  | 7490.7  | 7526.4  | 7619.3  | 7740.9  | 7862.4  | 7823.1  |
| 42.5° | 8409.2  | 8437.7  | 8301.9  | 8201.9  | 8137.5  | 8137.5  | 8155.4  | 8241.2  | 8352.0  | 8502.1  | 8491.4  |
| 45°   | 9213.3  | 9263.3  | 9077.5  | 8977.4  | 8916.6  | 8930.9  | 8941.7  | 9016.7  | 9116.8  | 9288.3  | 9281.2  |
| 47.5° | 10171.0 | 10221.1 | 10024.5 | 9920.9  | 9910.2  | 9978.1  | 9935.2  | 9988.8  | 10042.4 | 10238.9 | 10181.8 |
| 50°   | 11257.5 | 11343.2 | 11207.4 | 11200.3 | 11221.7 | 11346.8 | 11246.8 | 11275.3 | 11214.6 | 11339.7 | 11264.6 |
| 52.5° | 12586.9 | 12712.0 | 12687.0 | 12729.9 | 12969.3 | 13226.6 | 12997.9 | 12897.9 | 12669.1 | 12708.4 | 12576.2 |
| 55°   | 14198.7 | 14388.1 | 14423.9 | 14681.2 | 15224.4 | 15749.7 | 15263.7 | 14859.9 | 14373.8 | 14284.5 | 14145.1 |
| 57.5° | 16032.1 | 16182.2 | 16353.7 | 16879.1 | 17894.0 | 18826.8 | 17894.0 | 17000.6 | 16235.8 | 16053.5 | 15924.9 |
| 60°   | 18004.8 | 18190.7 | 18355.0 | 19130.6 | 20638.7 | 21950.3 | 20610.1 | 19191.3 | 18179.9 | 17933.3 | 17718.9 |
| 62.5° | 20124.1 | 20363.5 | 20477.9 | 21339.2 | 23097.5 | 24662.8 | 23122.5 | 21403.5 | 20281.3 | 20016.9 | 19802.4 |
| 65°   | 22157.6 | 22354.1 | 22482.8 | 23401.3 | 25080.9 | 26649.8 | 25195.3 | 23501.3 | 22347.0 | 22000.3 | 21828.8 |
| 67.5° | 23104.6 | 23211.8 | 23526.3 | 24566.3 | 26338.9 | 28129.4 | 26639.1 | 24677.1 | 23387.0 | 22779.4 | 22786.6 |
| 70°   | 21718.0 | 21500.0 | 22257.6 | 23923.0 | 26489.0 | 29037.1 | 26832.1 | 23873.0 | 22293.4 | 21307.0 | 21542.9 |
| 72.5° | 16782.6 | 16407.3 | 17722.5 | 20570.8 | 24773.6 | 28458.2 | 24945.1 | 20731.6 | 18540.9 | 16539.6 | 17036.3 |
| 75°   | 9131.1  | 8705.8  | 10521.3 | 14123.7 | 19756.0 | 24666.4 | 20209.9 | 14527.5 | 11714.9 | 9063.2  | 9652.8  |
| 77.5° | 2576.7  | 2415.9  | 3881.1  | 6833.1  | 11882.9 | 17318.6 | 12340.3 | 6983.2  | 4603.1  | 2730.4  | 3034.2  |
| 80°   | 789.8   | 764.8   | 1036.4  | 2058.5  | 5046.2  | 8294.8  | 4849.6  | 2083.5  | 1318.7  | 832.7   | 879.2   |
| 82.5° | 468.2   | 428.9   | 514.6   | 750.5   | 1286.6  | 2605.3  | 1250.8  | 782.7   | 629.0   | 421.7   | 457.4   |
| 85°   | 268.0   | 250.2   | 303.8   | 364.5   | 432.4   | 553.9   | 361.0   | 371.7   | 335.9   | 225.1   | 235.9   |
| 87.5° | 110.8   | 100.1   | 117.9   | 114.4   | 100.1   | 128.7   | 96.5    | 114.4   | 135.8   | 89.3    | 82.2    |
| 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)