

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: P941453

Luminaire Tested: **GALN-SB5A-730-U-T1**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941453  
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-SB5A-730-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 3000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 22416 lumens  
Efficiency: N/A  
Efficacy: 158.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 141.7  
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



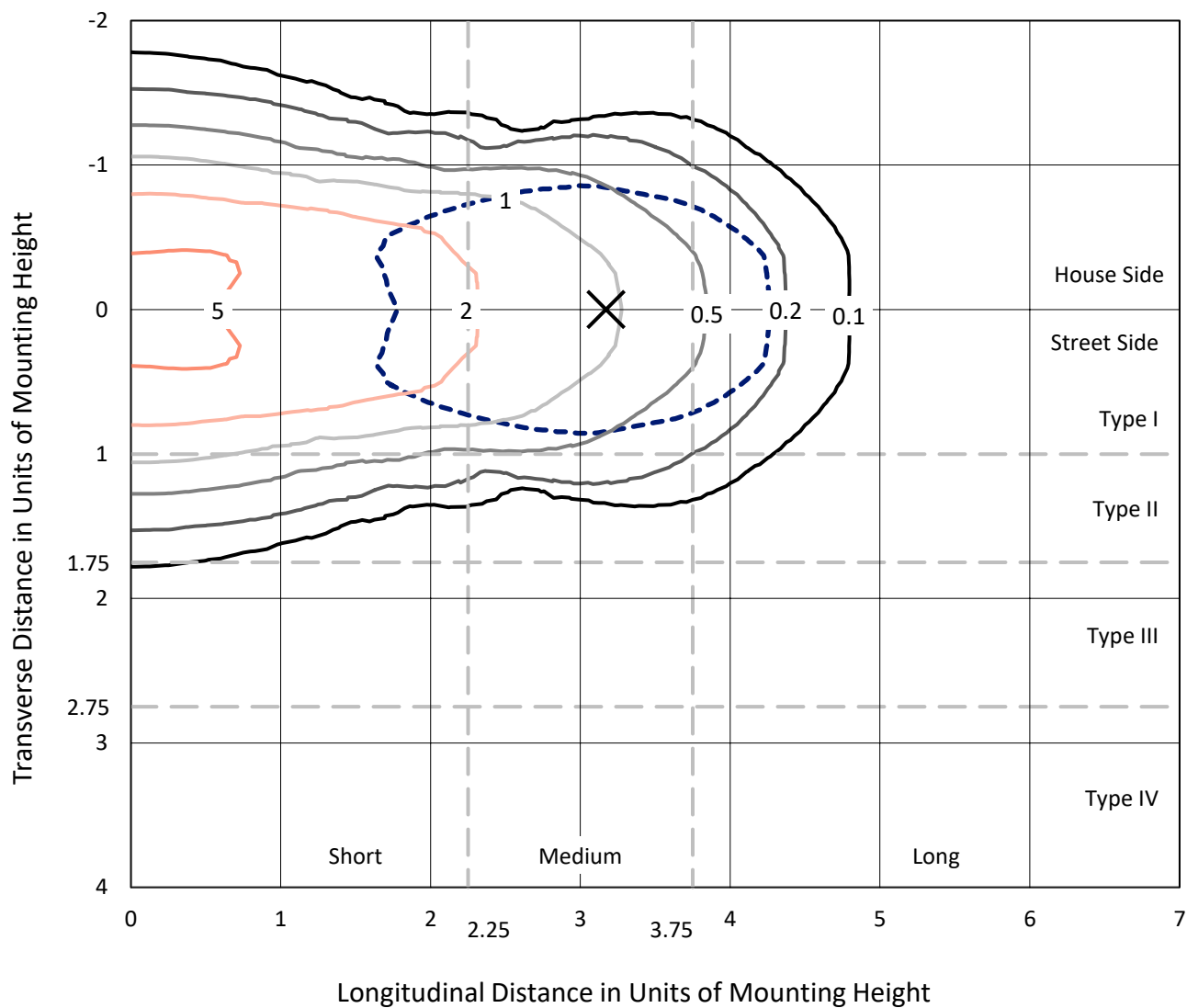
REPORT NUMBER: P941453

CATALOG NUMBER: GALN-SB5A-730-U-T1

## Iso-Footcandle Lines of Horizontal Illumination

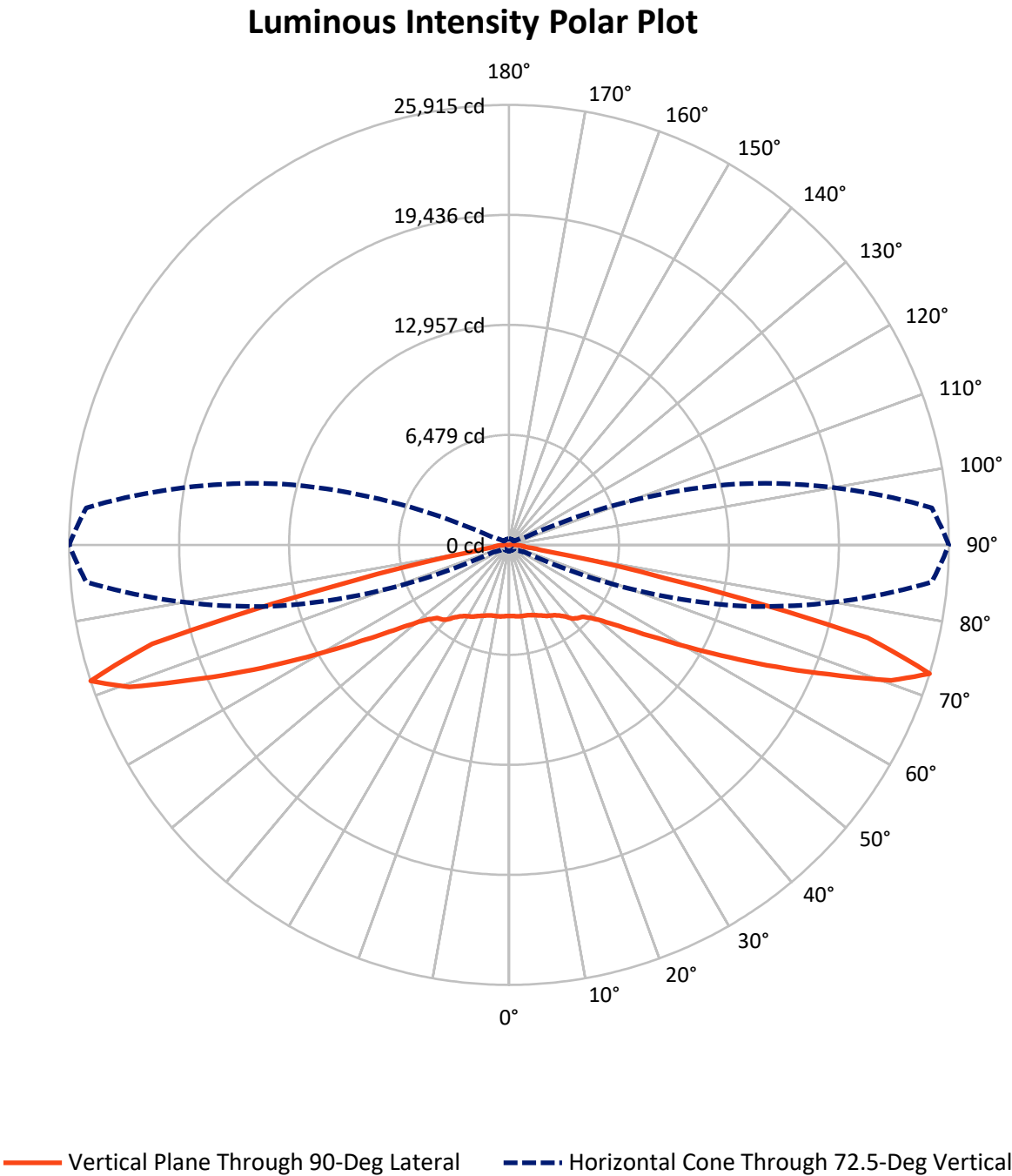
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.7 fc  
 Type I - Short - N/A

REPORT NUMBER: P941453  
CATALOG NUMBER: GALN-SB5A-730-U-T1



REPORT NUMBER: P941453

CATALOG NUMBER: GALN-SB5A-730-U-T1

**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 11208.0  | 0.0    | 11208.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 11208.0  | 0.0    | 11208.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 22416.0  | 0.0    | 22416.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 406.1   | 1.8       |
| 10°-20°   | 1241.8  | 5.5       |
| 20°-30°   | 2070.6  | 9.2       |
| 30°-40°   | 2847.8  | 12.7      |
| 40°-50°   | 3477.9  | 15.5      |
| 50°-60°   | 4022.5  | 17.9      |
| 60°-70°   | 4796.2  | 21.4      |
| 70°-80°   | 3347.4  | 14.9      |
| 80°-90°   | 205.6   | 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°    | 22416.0 | 100.0     |
| 0°-180°   | 22416.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P941453

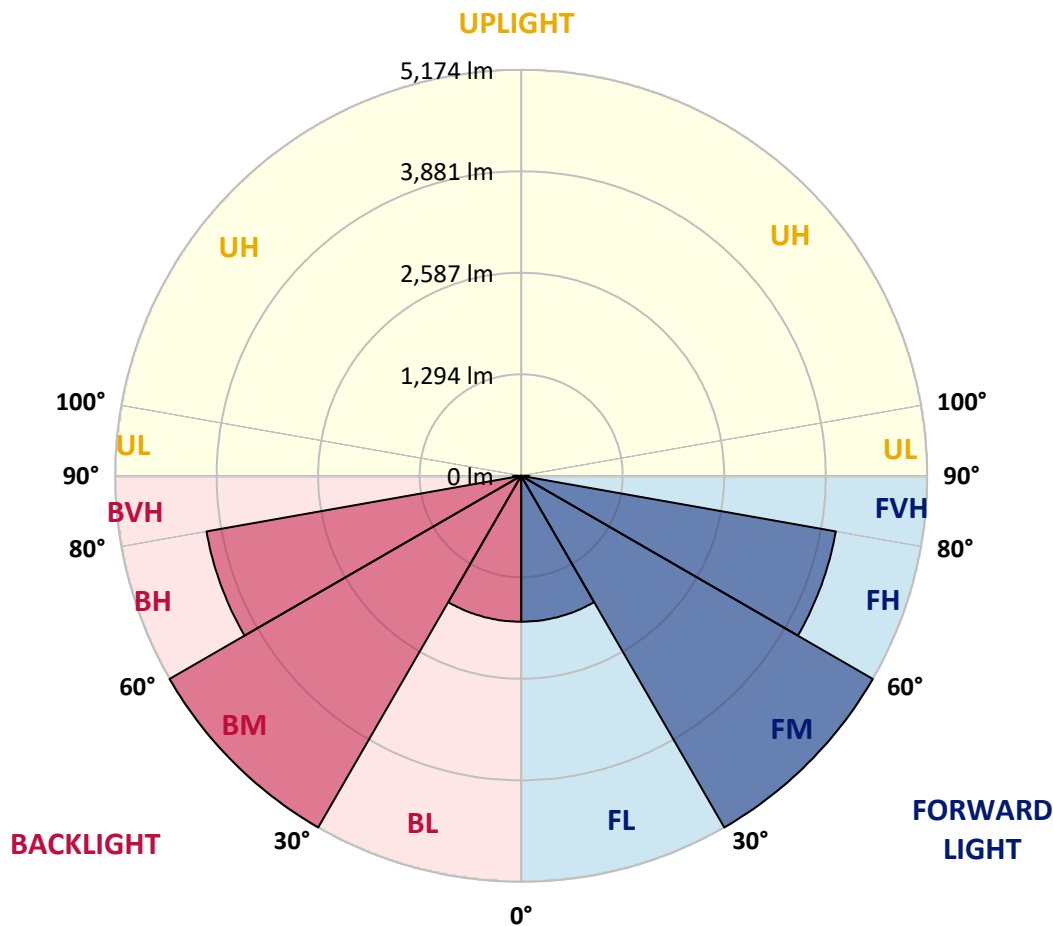
CATALOG NUMBER: GALN-SB5A-730-U-T1

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1859.3 | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 5174.1 | 23.1      |                         |      |         |
| FH   | (60°-80°)   | 4071.8 | 18.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 102.8  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1859.3 | 8.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5174.1 | 23.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4071.8 | 18.2      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 102.8  | 0.5       |                         |      | G2/225  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type I Short



REPORT NUMBER: P941453

CATALOG NUMBER: GALN-SB5A-730-U-T1

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 4188.7 | 4188.7 | 4188.7 | 4188.7 | 4188.7 | 4188.7 | 4188.7 | 4188.7 | 4188.7  | 4188.7  | 4188.7  |
| 2.5°  | 4192.2 | 4197.0 | 4197.0 | 4193.4 | 4201.8 | 4194.6 | 4194.6 | 4191.0 | 4194.6  | 4191.0  | 4191.0  |
| 5°    | 4213.7 | 4219.6 | 4222.0 | 4220.8 | 4231.6 | 4225.6 | 4225.6 | 4220.8 | 4222.0  | 4218.4  | 4218.4  |
| 7.5°  | 4254.2 | 4262.5 | 4267.3 | 4273.2 | 4288.7 | 4281.6 | 4276.8 | 4262.5 | 4256.6  | 4247.0  | 4247.0  |
| 10°   | 4267.3 | 4276.8 | 4292.3 | 4323.3 | 4359.0 | 4360.2 | 4345.9 | 4310.2 | 4282.8  | 4261.3  | 4257.8  |
| 12.5° | 4226.8 | 4239.9 | 4272.1 | 4335.2 | 4415.0 | 4447.2 | 4424.5 | 4365.0 | 4311.4  | 4273.2  | 4267.3  |
| 15°   | 4175.6 | 4189.9 | 4238.7 | 4334.0 | 4451.9 | 4527.0 | 4524.6 | 4446.0 | 4360.2  | 4300.6  | 4291.1  |
| 17.5° | 4095.7 | 4110.0 | 4180.3 | 4313.8 | 4480.5 | 4604.4 | 4637.8 | 4556.8 | 4436.5  | 4356.6  | 4343.5  |
| 20°   | 3951.6 | 3964.7 | 4062.4 | 4249.4 | 4490.1 | 4686.6 | 4773.6 | 4702.1 | 4552.0  | 4443.6  | 4423.4  |
| 22.5° | 3764.6 | 3784.8 | 3899.2 | 4138.6 | 4467.4 | 4772.4 | 4928.5 | 4879.6 | 4686.6  | 4536.5  | 4509.1  |
| 25°   | 3564.4 | 3585.9 | 3719.3 | 4002.8 | 4409.1 | 4834.4 | 5111.9 | 5081.0 | 4839.1  | 4652.1  | 4614.0  |
| 27.5° | 3391.7 | 3414.3 | 3559.7 | 3868.2 | 4318.5 | 4858.2 | 5293.0 | 5308.5 | 5023.8  | 4779.6  | 4739.1  |
| 30°   | 3255.9 | 3277.3 | 3432.2 | 3759.8 | 4201.8 | 4834.4 | 5451.5 | 5558.7 | 5212.0  | 4890.4  | 4832.0  |
| 32.5° | 3107.0 | 3134.4 | 3297.6 | 3627.6 | 4063.6 | 4777.2 | 5589.7 | 5829.1 | 5430.0  | 5009.5  | 4935.6  |
| 35°   | 2918.7 | 2943.7 | 3115.3 | 3446.5 | 3882.5 | 4685.4 | 5705.2 | 6129.3 | 5742.1  | 5190.6  | 5108.4  |
| 37.5° | 2690.0 | 2713.8 | 2884.2 | 3220.1 | 3702.6 | 4556.8 | 5793.4 | 6467.7 | 6113.8  | 5451.5  | 5341.9  |
| 40°   | 2460.1 | 2482.7 | 2642.3 | 2967.6 | 3487.0 | 4392.4 | 5824.3 | 6798.8 | 6540.3  | 5810.0  | 5693.3  |
| 42.5° | 2249.2 | 2269.5 | 2416.0 | 2718.6 | 3245.1 | 4182.7 | 5783.8 | 7087.1 | 6922.7  | 6060.2  | 5910.1  |
| 45°   | 2055.0 | 2072.9 | 2202.7 | 2485.1 | 2993.8 | 3927.8 | 5662.3 | 7396.9 | 7377.8  | 6238.9  | 6036.4  |
| 47.5° | 1833.4 | 1851.3 | 1985.9 | 2258.7 | 2742.4 | 3628.7 | 5456.2 | 7701.9 | 8010.4  | 6644.0  | 6410.5  |
| 50°   | 1563.0 | 1578.5 | 1716.7 | 1997.8 | 2481.5 | 3310.7 | 5170.3 | 7941.3 | 8808.6  | 7257.5  | 6964.4  |
| 52.5° | 1242.5 | 1259.2 | 1393.8 | 1675.0 | 2171.8 | 2968.8 | 4793.9 | 8097.4 | 9730.7  | 8153.4  | 7792.4  |
| 55°   | 924.5  | 936.4  | 1053.1 | 1305.7 | 1788.2 | 2579.2 | 4322.1 | 8141.5 | 10776.6 | 9378.0  | 8926.5  |
| 57.5° | 670.7  | 677.9  | 752.9  | 941.1  | 1355.7 | 2092.0 | 3749.1 | 8027.1 | 12021.6 | 10948.2 | 10379.9 |
| 60°   | 543.2  | 545.6  | 568.3  | 651.6  | 942.3  | 1541.6 | 3056.9 | 7634.0 | 13372.5 | 12972.2 | 12256.3 |
| 62.5° | 493.2  | 493.2  | 499.2  | 521.8  | 637.4  | 1017.4 | 2219.4 | 6819.1 | 14821.2 | 15530.0 | 14571.0 |
| 65°   | 458.7  | 458.7  | 461.0  | 471.8  | 502.7  | 648.1  | 1401.0 | 5492.0 | 16042.3 | 18526.2 | 17313.4 |
| 67.5° | 427.7  | 428.9  | 427.7  | 431.3  | 449.1  | 478.9  | 812.5  | 3793.1 | 16699.9 | 21630.7 | 20321.5 |
| 70°   | 395.5  | 397.9  | 391.9  | 391.9  | 406.2  | 407.4  | 508.7  | 2080.0 | 16154.2 | 24232.6 | 23888.3 |
| 72.5° | 357.4  | 361.0  | 351.4  | 349.1  | 359.8  | 355.0  | 382.4  | 998.3  | 13869.3 | 25009.3 | 25914.7 |
| 75°   | 324.0  | 328.8  | 307.4  | 301.4  | 301.4  | 297.8  | 310.9  | 512.3  | 9001.6  | 20401.3 | 21821.3 |
| 77.5° | 294.3  | 303.8  | 269.2  | 250.2  | 245.4  | 234.7  | 253.8  | 313.3  | 3937.3  | 9578.2  | 9379.2  |
| 80°   | 243.0  | 256.1  | 221.6  | 198.9  | 190.6  | 178.7  | 200.1  | 219.2  | 1171.1  | 2224.2  | 2130.1  |
| 82.5° | 181.1  | 187.0  | 157.3  | 141.8  | 134.6  | 126.3  | 150.1  | 152.5  | 381.2   | 787.5   | 889.9   |
| 85°   | 115.6  | 117.9  | 96.5   | 83.4   | 79.8   | 76.2   | 95.3   | 83.4   | 145.3   | 579.0   | 841.1   |
| 87.5° | 40.5   | 46.5   | 36.9   | 33.4   | 35.7   | 29.8   | 44.1   | 25.0   | 40.5    | 408.6   | 506.3   |
| 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)