

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: P941613

Luminaire Tested: **GALN-SB5B-727-U-T1**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941613  
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-SB5B-727-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 26100 lumens  
Efficiency: N/A  
Efficacy: 142.9 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): 182.7  
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



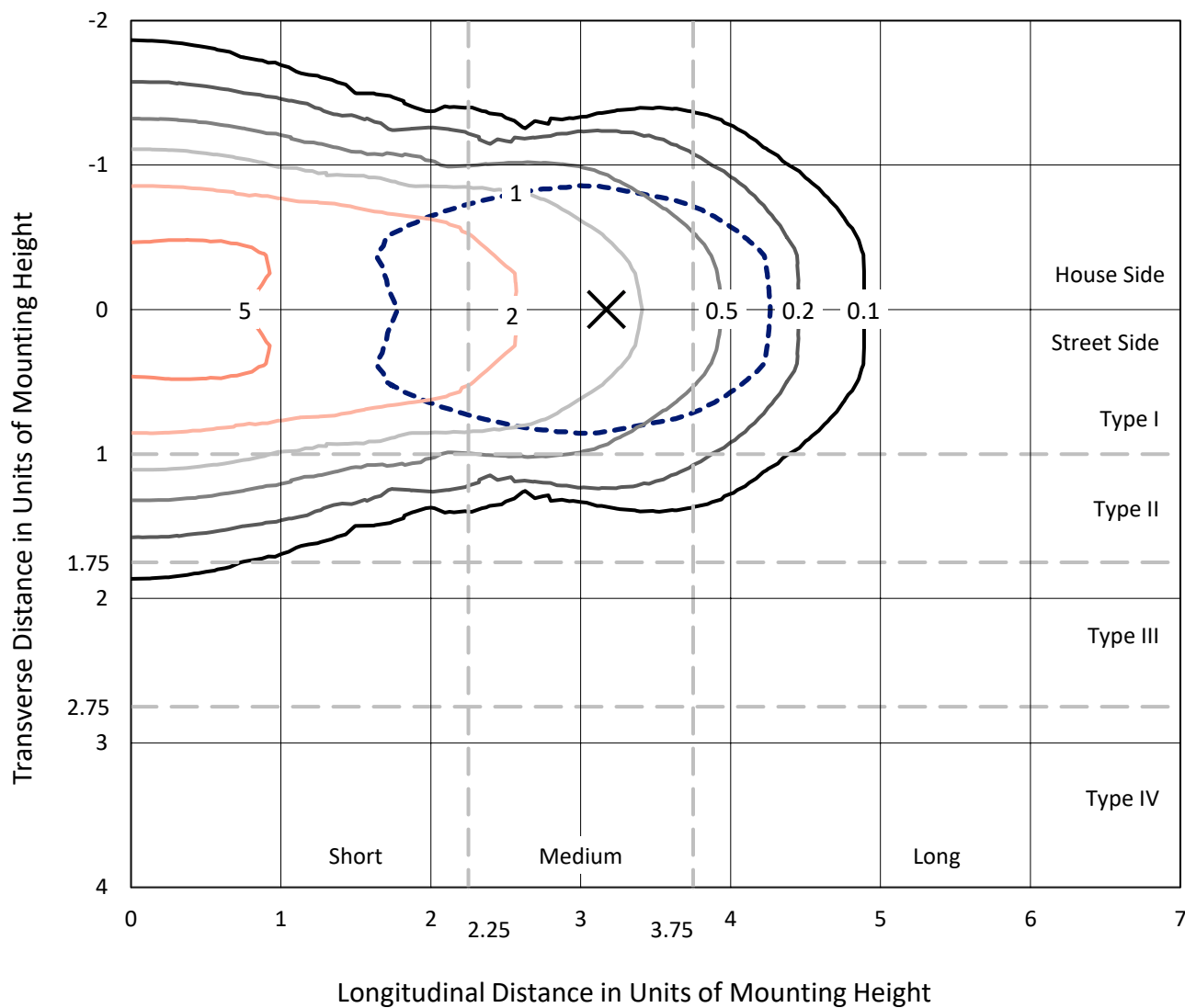
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## Iso-Footcandle Lines of Horizontal Illumination

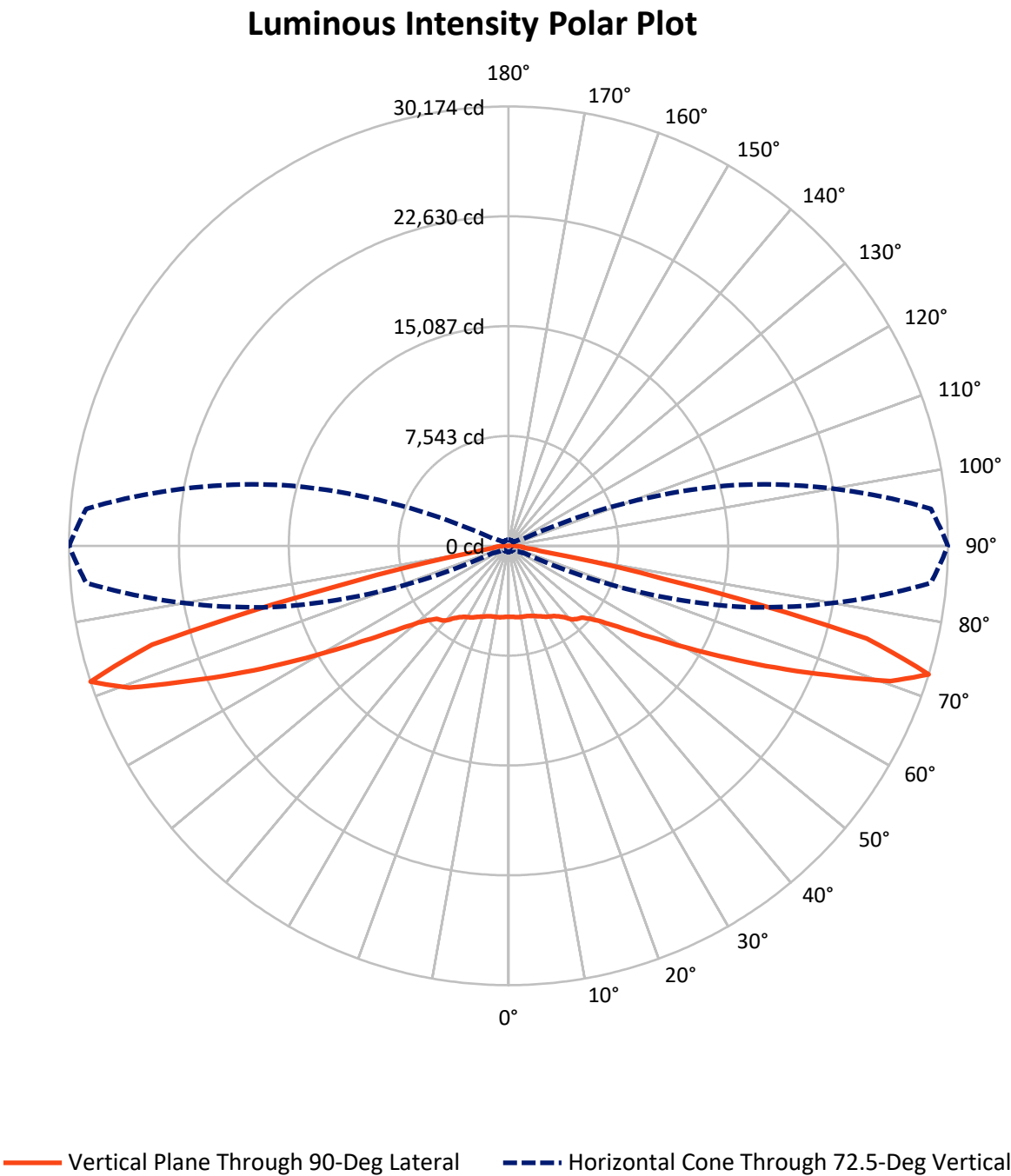
✕ Max cd

--- 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.8 fc  
 Type I - Short - N/A

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**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13050.0  | 0.0    | 13050.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13050.0  | 0.0    | 13050.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 26100.0  | 0.0    | 26100.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 472.9   | 1.8       |
| 10°-20°   | 1445.9  | 5.5       |
| 20°-30°   | 2410.9  | 9.2       |
| 30°-40°   | 3315.8  | 12.7      |
| 40°-50°   | 4049.5  | 15.5      |
| 50°-60°   | 4683.6  | 17.9      |
| 60°-70°   | 5584.5  | 21.4      |
| 70°-80°   | 3897.6  | 14.9      |
| 80°-90°   | 239.4   | 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°    | 26100.0 | 100.0     |
| 0°-180°   | 26100.0 | 100.0     |

**Coefficient of Utilization**



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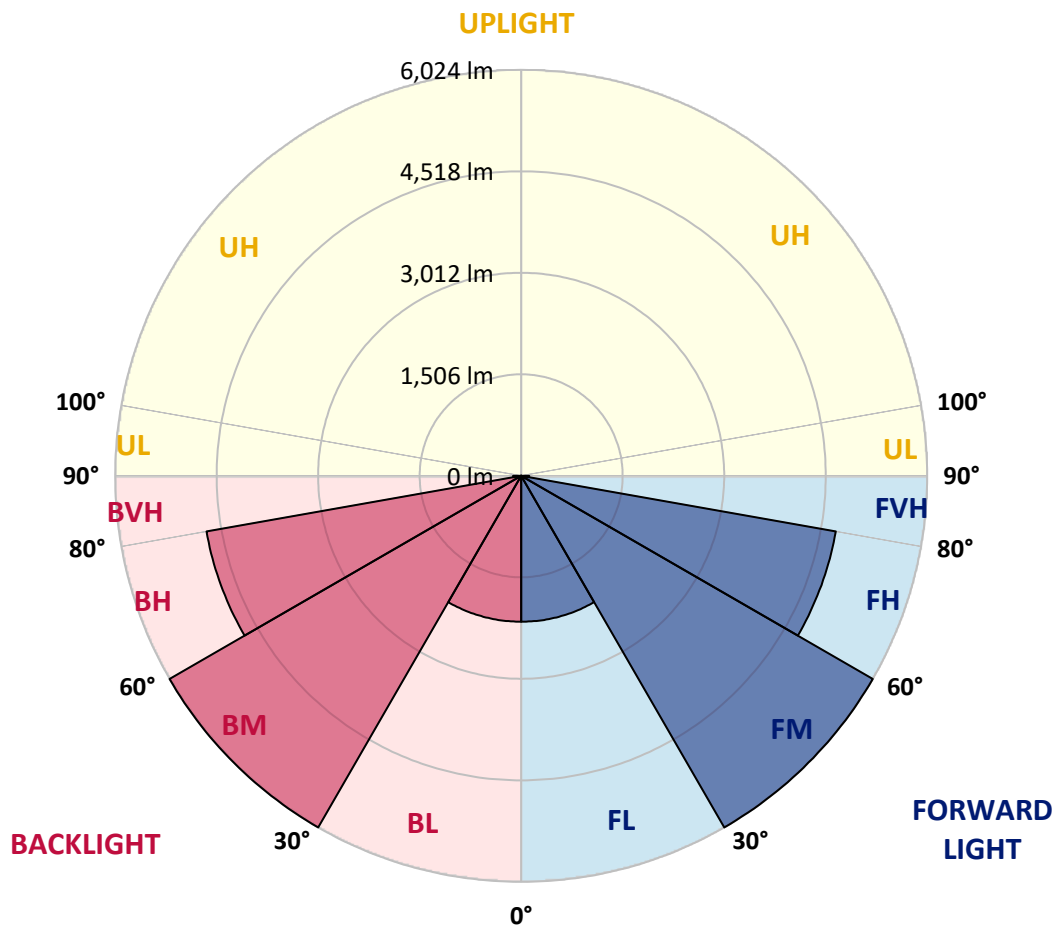
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 2164.9 | 8.3       |                         |      |         |
| FM   | (30°-60°)   | 6024.4 | 23.1      |                         |      |         |
| FH   | (60°-80°)   | 4741.0 | 18.2      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 119.7  | 0.5       |                         |      | G2/225  |
| BL   | (0°-30°)    | 2164.9 | 8.3       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6024.4 | 23.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4741.0 | 18.2      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 119.7  | 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



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°     | 85°     | 90°     |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0°    | 4877.1 | 4877.1 | 4877.1 | 4877.1 | 4877.1 | 4877.1 | 4877.1 | 4877.1 | 4877.1  | 4877.1  | 4877.1  |
| 2.5°  | 4881.2 | 4886.8 | 4886.8 | 4882.6 | 4892.3 | 4884.0 | 4884.0 | 4879.8 | 4884.0  | 4879.8  | 4879.8  |
| 5°    | 4906.2 | 4913.1 | 4915.9 | 4914.5 | 4927.0 | 4920.1 | 4920.1 | 4914.5 | 4915.9  | 4911.7  | 4911.7  |
| 7.5°  | 4953.4 | 4963.1 | 4968.6 | 4975.5 | 4993.6 | 4985.3 | 4979.7 | 4963.1 | 4956.1  | 4945.0  | 4945.0  |
| 10°   | 4968.6 | 4979.7 | 4997.7 | 5033.8 | 5075.4 | 5076.8 | 5060.2 | 5018.5 | 4986.6  | 4961.7  | 4957.5  |
| 12.5° | 4921.4 | 4936.7 | 4974.2 | 5047.7 | 5140.6 | 5178.1 | 5151.7 | 5082.4 | 5019.9  | 4975.5  | 4968.6  |
| 15°   | 4861.8 | 4878.4 | 4935.3 | 5046.3 | 5183.6 | 5271.0 | 5268.2 | 5176.7 | 5076.8  | 5007.4  | 4996.4  |
| 17.5° | 4768.9 | 4785.5 | 4867.4 | 5022.7 | 5216.9 | 5361.2 | 5400.0 | 5305.7 | 5165.6  | 5072.6  | 5057.4  |
| 20°   | 4601.0 | 4616.3 | 4730.0 | 4947.8 | 5228.0 | 5456.9 | 5558.1 | 5474.9 | 5300.1  | 5173.9  | 5150.3  |
| 22.5° | 4383.3 | 4406.8 | 4540.0 | 4818.8 | 5201.6 | 5556.7 | 5738.5 | 5681.6 | 5456.9  | 5282.1  | 5250.2  |
| 25°   | 4150.2 | 4175.2 | 4330.5 | 4660.7 | 5133.7 | 5628.9 | 5952.1 | 5916.0 | 5634.4  | 5416.6  | 5372.3  |
| 27.5° | 3949.1 | 3975.4 | 4144.7 | 4503.9 | 5028.3 | 5656.6 | 6162.9 | 6180.9 | 5849.4  | 5565.1  | 5517.9  |
| 30°   | 3791.0 | 3815.9 | 3996.2 | 4377.7 | 4892.3 | 5628.9 | 6347.4 | 6472.2 | 6068.6  | 5694.1  | 5626.1  |
| 32.5° | 3617.6 | 3649.5 | 3839.5 | 4223.7 | 4731.4 | 5562.3 | 6508.3 | 6787.1 | 6322.4  | 5832.8  | 5746.8  |
| 35°   | 3398.4 | 3427.5 | 3627.3 | 4012.9 | 4520.6 | 5455.5 | 6642.8 | 7136.7 | 6685.8  | 6043.6  | 5947.9  |
| 37.5° | 3132.1 | 3159.8 | 3358.2 | 3749.3 | 4311.1 | 5305.7 | 6745.5 | 7530.6 | 7118.6  | 6347.4  | 6219.8  |
| 40°   | 2864.4 | 2890.7 | 3076.6 | 3455.3 | 4060.1 | 5114.3 | 6781.6 | 7916.2 | 7615.2  | 6764.9  | 6629.0  |
| 42.5° | 2618.9 | 2642.4 | 2813.0 | 3165.4 | 3778.5 | 4870.1 | 6734.4 | 8251.9 | 8060.5  | 7056.2  | 6881.4  |
| 45°   | 2392.8 | 2413.6 | 2564.8 | 2893.5 | 3485.8 | 4573.3 | 6592.9 | 8612.5 | 8590.3  | 7264.3  | 7028.5  |
| 47.5° | 2134.8 | 2155.6 | 2312.3 | 2630.0 | 3193.1 | 4225.1 | 6352.9 | 8967.6 | 9326.9  | 7735.9  | 7464.0  |
| 50°   | 1819.9 | 1837.9 | 1998.8 | 2326.2 | 2889.3 | 3854.8 | 6020.0 | 9246.4 | 10256.3 | 8450.2  | 8109.0  |
| 52.5° | 1446.8 | 1466.2 | 1622.9 | 1950.3 | 2528.7 | 3456.7 | 5581.7 | 9428.2 | 11329.9 | 9493.3  | 9073.1  |
| 55°   | 1076.4 | 1090.3 | 1226.2 | 1520.3 | 2082.0 | 3003.1 | 5032.4 | 9479.5 | 12547.8 | 10919.3 | 10393.6 |
| 57.5° | 780.9  | 789.3  | 876.7  | 1095.8 | 1578.5 | 2435.8 | 4365.2 | 9346.3 | 13997.3 | 12747.5 | 12085.8 |
| 60°   | 632.5  | 635.3  | 661.6  | 758.7  | 1097.2 | 1794.9 | 3559.3 | 8888.6 | 15570.3 | 15104.2 | 14270.5 |
| 62.5° | 574.3  | 574.3  | 581.2  | 607.6  | 742.1  | 1184.6 | 2584.2 | 7939.8 | 17257.0 | 18082.3 | 16965.7 |
| 65°   | 534.0  | 534.0  | 536.8  | 549.3  | 585.4  | 754.6  | 1631.2 | 6394.6 | 18678.8 | 21570.9 | 20158.8 |
| 67.5° | 498.0  | 499.4  | 498.0  | 502.1  | 522.9  | 557.6  | 946.0  | 4416.5 | 19444.4 | 25185.7 | 23661.2 |
| 70°   | 460.5  | 463.3  | 456.4  | 456.4  | 473.0  | 474.4  | 592.3  | 2421.9 | 18809.1 | 28215.1 | 27814.2 |
| 72.5° | 416.1  | 420.3  | 409.2  | 406.4  | 418.9  | 413.4  | 445.3  | 1162.4 | 16148.7 | 29119.5 | 30173.7 |
| 75°   | 377.3  | 382.8  | 357.9  | 350.9  | 350.9  | 346.8  | 362.0  | 596.5  | 10481.0 | 23754.2 | 25407.6 |
| 77.5° | 342.6  | 353.7  | 313.5  | 291.3  | 285.7  | 273.3  | 295.5  | 364.8  | 4584.4  | 11152.3 | 10920.7 |
| 80°   | 283.0  | 298.2  | 258.0  | 231.6  | 221.9  | 208.1  | 233.0  | 255.2  | 1363.5  | 2589.7  | 2480.1  |
| 82.5° | 210.8  | 217.8  | 183.1  | 165.1  | 156.7  | 147.0  | 174.8  | 177.5  | 443.9   | 916.9   | 1036.2  |
| 85°   | 134.5  | 137.3  | 112.4  | 97.1   | 92.9   | 88.8   | 111.0  | 97.1   | 169.2   | 674.1   | 979.3   |
| 87.5° | 47.2   | 54.1   | 43.0   | 38.8   | 41.6   | 34.7   | 51.3   | 29.1   | 47.2    | 475.8   | 589.5   |
| 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)