

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: P942633

Luminaire Tested: **GALN-SB6D-727-U-T1**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P942633  
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-SB6D-727-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(6) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 56622 lumens  
Efficiency: N/A  
Efficacy: 128.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type I - Short  
BUG Rating: B5 - U0 - G5  
  
Input Watts (W): 440.1  
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

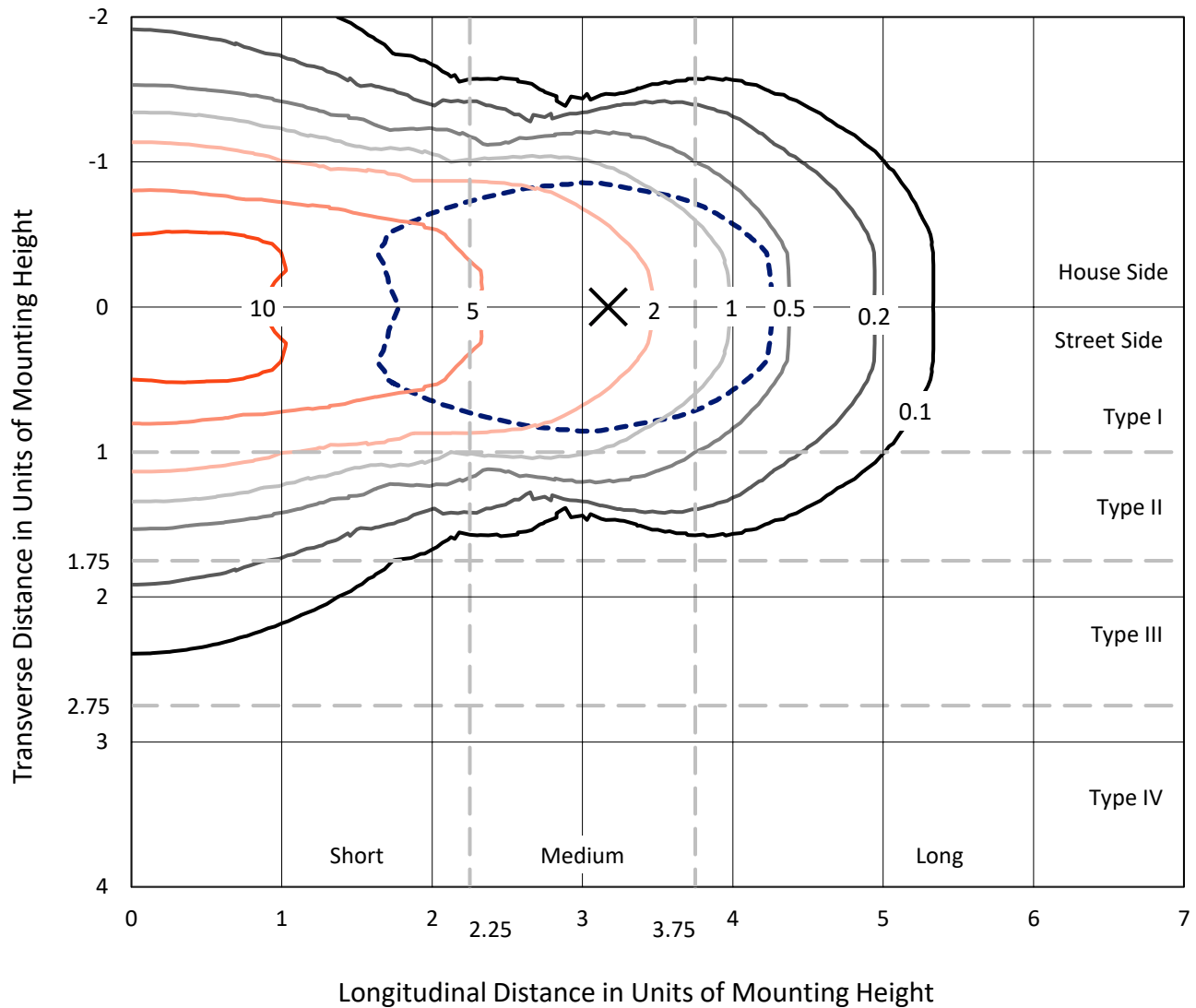


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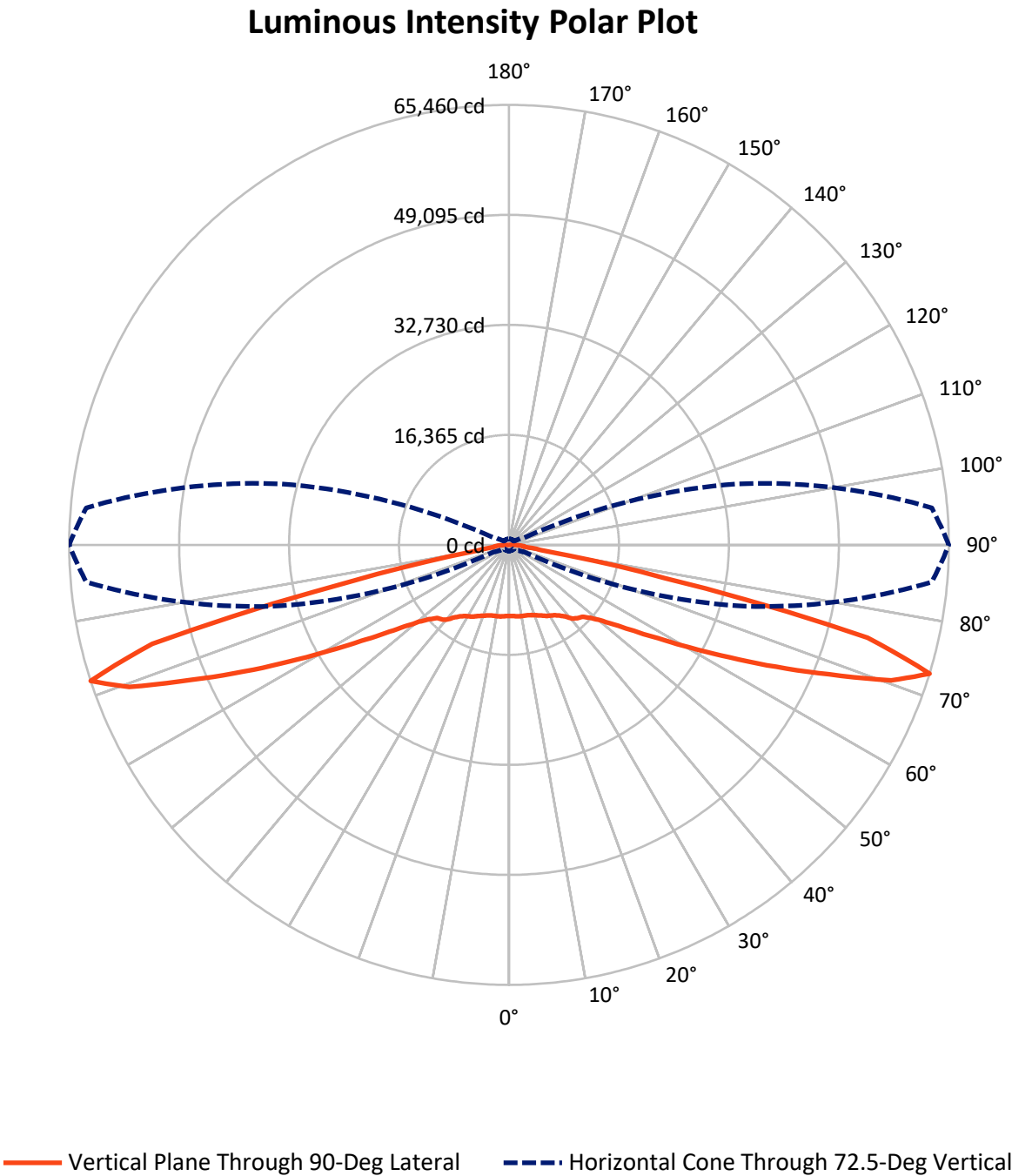
## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 16.9 fc  
 Type I - Short - N/A

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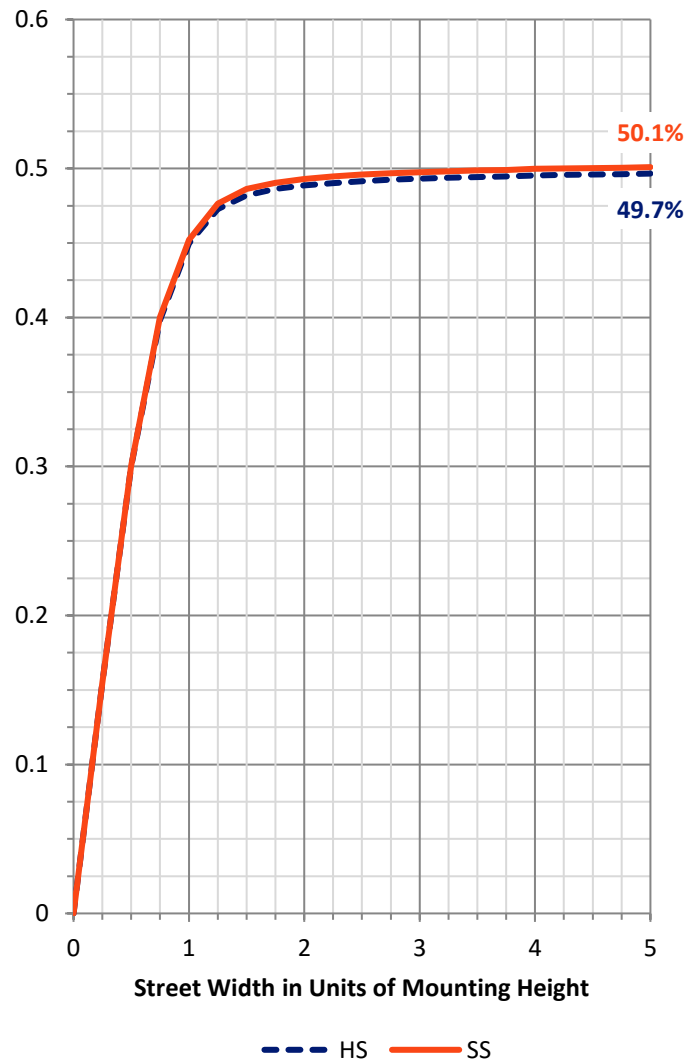
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 28311.0  | 0.0    | 28311.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 28311.0  | 0.0    | 28311.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 56622.0  | 0.0    | 56622.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1025.9  | 1.8       |
| 10°-20°   | 3136.8  | 5.5       |
| 20°-30°   | 5230.3  | 9.2       |
| 30°-40°   | 7193.3  | 12.7      |
| 40°-50°   | 8785.0  | 15.5      |
| 50°-60°   | 10160.8 | 17.9      |
| 60°-70°   | 12115.1 | 21.4      |
| 70°-80°   | 8455.5  | 14.9      |
| 80°-90°   | 519.3   | 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°    | 56622.0 | 100.0     |
| 0°-180°   | 56622.0 | 100.0     |

**Coefficient of Utilization**



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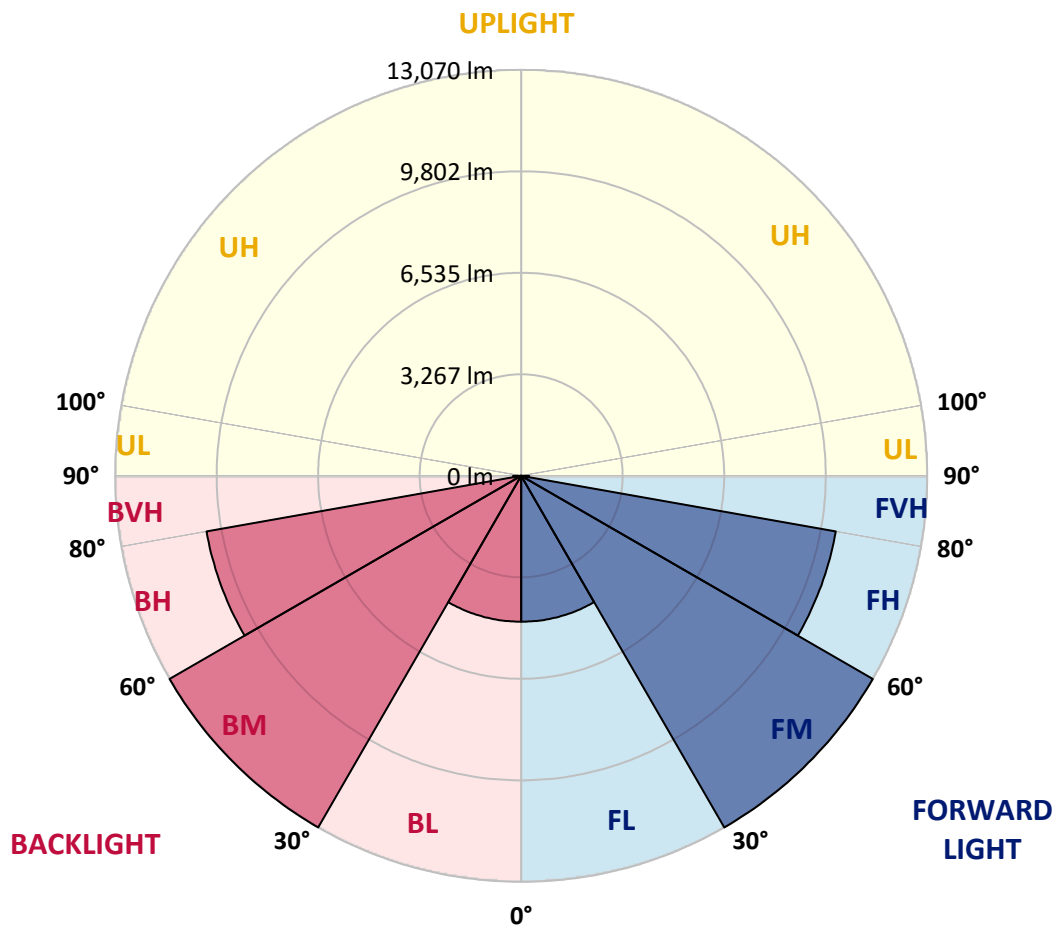
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 4696.5  | 8.3       |                         |      |          |
| FM   | (30°-60°)   | 13069.5 | 23.1      |                         |      |          |
| FH   | (60°-80°)   | 10285.3 | 18.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 259.7   | 0.5       |                         |      | G3/500   |
| BL   | (0°-30°)    | 4696.5  | 8.3       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 13069.5 | 23.1      | B5                      |      |          |
| BH   | (60°-80°)   | 10285.3 | 18.2      | B5                      |      | G5       |
| BVH  | (80°-90°)   | 259.7   | 0.5       |                         |      | 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 I Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 10580.4 | 10580.4 | 10580.4 | 10580.4 | 10580.4 | 10580.4 | 10580.4 | 10580.4 | 10580.4 | 10580.4 | 10580.4 |
| 2.5°  | 10589.4 | 10601.5 | 10601.5 | 10592.5 | 10613.5 | 10595.5 | 10595.5 | 10586.4 | 10595.5 | 10586.4 | 10586.4 |
| 5°    | 10643.6 | 10658.7 | 10664.7 | 10661.7 | 10688.8 | 10673.7 | 10673.7 | 10661.7 | 10664.7 | 10655.6 | 10655.6 |
| 7.5°  | 10745.9 | 10767.0 | 10779.0 | 10794.1 | 10833.2 | 10815.1 | 10803.1 | 10767.0 | 10751.9 | 10727.9 | 10727.9 |
| 10°   | 10779.0 | 10803.1 | 10842.2 | 10920.5 | 11010.7 | 11013.7 | 10977.6 | 10887.4 | 10818.1 | 10764.0 | 10755.0 |
| 12.5° | 10676.7 | 10709.8 | 10791.1 | 10950.6 | 11152.2 | 11233.4 | 11176.2 | 11025.8 | 10890.4 | 10794.1 | 10779.0 |
| 15°   | 10547.3 | 10583.4 | 10706.8 | 10947.5 | 11245.5 | 11435.0 | 11429.0 | 11230.4 | 11013.7 | 10863.3 | 10839.2 |
| 17.5° | 10345.7 | 10381.8 | 10559.4 | 10896.4 | 11317.7 | 11630.6 | 11714.9 | 11510.3 | 11206.3 | 11004.7 | 10971.6 |
| 20°   | 9981.6  | 10014.7 | 10261.4 | 10733.9 | 11341.8 | 11838.3 | 12057.9 | 11877.4 | 11498.2 | 11224.4 | 11173.2 |
| 22.5° | 9509.1  | 9560.3  | 9849.2  | 10454.0 | 11284.6 | 12054.9 | 12449.1 | 12325.8 | 11838.3 | 11459.1 | 11389.9 |
| 25°   | 9003.6  | 9057.8  | 9394.8  | 10111.0 | 11137.1 | 12211.4 | 12912.6 | 12834.3 | 12223.5 | 11751.0 | 11654.7 |
| 27.5° | 8567.3  | 8624.4  | 8991.6  | 9770.9  | 10908.4 | 12271.6 | 13370.0 | 13409.1 | 12689.9 | 12073.0 | 11970.7 |
| 30°   | 8224.2  | 8278.4  | 8669.6  | 9497.1  | 10613.5 | 12211.4 | 13770.2 | 14041.0 | 13165.3 | 12352.8 | 12205.4 |
| 32.5° | 7848.0  | 7917.3  | 8329.5  | 9163.1  | 10264.5 | 12067.0 | 14119.3 | 14724.1 | 13716.0 | 12653.8 | 12467.2 |
| 35°   | 7372.6  | 7435.8  | 7869.1  | 8705.7  | 9807.0  | 11835.3 | 14411.2 | 15482.4 | 14504.4 | 13111.2 | 12903.5 |
| 37.5° | 6794.8  | 6855.0  | 7285.3  | 8133.9  | 9352.7  | 11510.3 | 14633.8 | 16337.1 | 15443.3 | 13770.2 | 13493.3 |
| 40°   | 6214.0  | 6271.2  | 6674.5  | 7496.0  | 8808.0  | 11095.0 | 14712.1 | 17173.6 | 16520.6 | 14676.0 | 14381.1 |
| 42.5° | 5681.4  | 5732.6  | 6102.7  | 6867.0  | 8197.1  | 10565.4 | 14609.8 | 17901.9 | 17486.6 | 15307.9 | 14928.7 |
| 45°   | 5190.9  | 5236.0  | 5564.0  | 6277.2  | 7562.2  | 9921.4  | 14302.8 | 18684.2 | 18636.1 | 15759.3 | 15247.7 |
| 47.5° | 4631.2  | 4676.3  | 5016.4  | 5705.5  | 6927.2  | 9166.1  | 13782.2 | 19454.6 | 20234.0 | 16782.4 | 16192.6 |
| 50°   | 3948.1  | 3987.2  | 4336.3  | 5046.5  | 6268.2  | 8362.6  | 13060.0 | 20059.5 | 22250.2 | 18332.2 | 17591.9 |
| 52.5° | 3138.6  | 3180.7  | 3520.8  | 4231.0  | 5485.8  | 7499.0  | 12109.1 | 20453.7 | 24579.3 | 20595.1 | 19683.3 |
| 55°   | 2335.2  | 2365.2  | 2660.2  | 3298.1  | 4516.8  | 6515.0  | 10917.5 | 20565.0 | 27221.4 | 23688.6 | 22548.1 |
| 57.5° | 1694.2  | 1712.2  | 1901.8  | 2377.3  | 3424.5  | 5284.2  | 9470.0  | 20276.1 | 30366.0 | 27654.7 | 26219.3 |
| 60°   | 1372.2  | 1378.2  | 1435.4  | 1646.0  | 2380.3  | 3893.9  | 7721.7  | 19283.1 | 33778.5 | 32767.4 | 30958.9 |
| 62.5° | 1245.8  | 1245.8  | 1260.9  | 1318.0  | 1609.9  | 2569.9  | 5606.2  | 17224.8 | 37437.7 | 39228.2 | 36805.8 |
| 65°   | 1158.5  | 1158.5  | 1164.6  | 1191.7  | 1269.9  | 1637.0  | 3538.8  | 13872.5 | 40522.2 | 46796.4 | 43733.0 |
| 67.5° | 1080.3  | 1083.3  | 1080.3  | 1089.3  | 1134.5  | 1209.7  | 2052.3  | 9581.4  | 42183.2 | 54638.4 | 51331.3 |
| 70°   | 999.1   | 1005.1  | 990.0   | 990.0   | 1026.1  | 1029.2  | 1284.9  | 5254.1  | 40805.0 | 61210.5 | 60340.9 |
| 72.5° | 902.8   | 911.8   | 887.7   | 881.7   | 908.8   | 896.7   | 966.0   | 2521.7  | 35033.3 | 63172.6 | 65459.6 |
| 75°   | 818.5   | 830.5   | 776.4   | 761.3   | 761.3   | 752.3   | 785.4   | 1294.0  | 22737.7 | 51532.9 | 55119.9 |
| 77.5° | 743.3   | 767.4   | 680.1   | 631.9   | 619.9   | 592.8   | 641.0   | 791.4   | 9945.5  | 24194.1 | 23691.6 |
| 80°   | 613.9   | 647.0   | 559.7   | 502.5   | 481.5   | 451.4   | 505.5   | 553.7   | 2958.1  | 5618.2  | 5380.5  |
| 82.5° | 457.4   | 472.4   | 397.2   | 358.1   | 340.0   | 319.0   | 379.2   | 385.2   | 963.0   | 1989.1  | 2247.9  |
| 85°   | 291.9   | 297.9   | 243.7   | 210.6   | 201.6   | 192.6   | 240.7   | 210.6   | 367.1   | 1462.5  | 2124.5  |
| 87.5° | 102.3   | 117.4   | 93.3    | 84.3    | 90.3    | 75.2    | 111.3   | 63.2    | 102.3   | 1032.2  | 1278.9  |
| 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)