

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: P941953

Luminaire Tested: **GALN-SB5D-727-U-T1**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941953  
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-SB5D-727-U-T1  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 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: 47167 lumens  
Efficiency: N/A  
Efficacy: 129.3 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): 364.9  
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



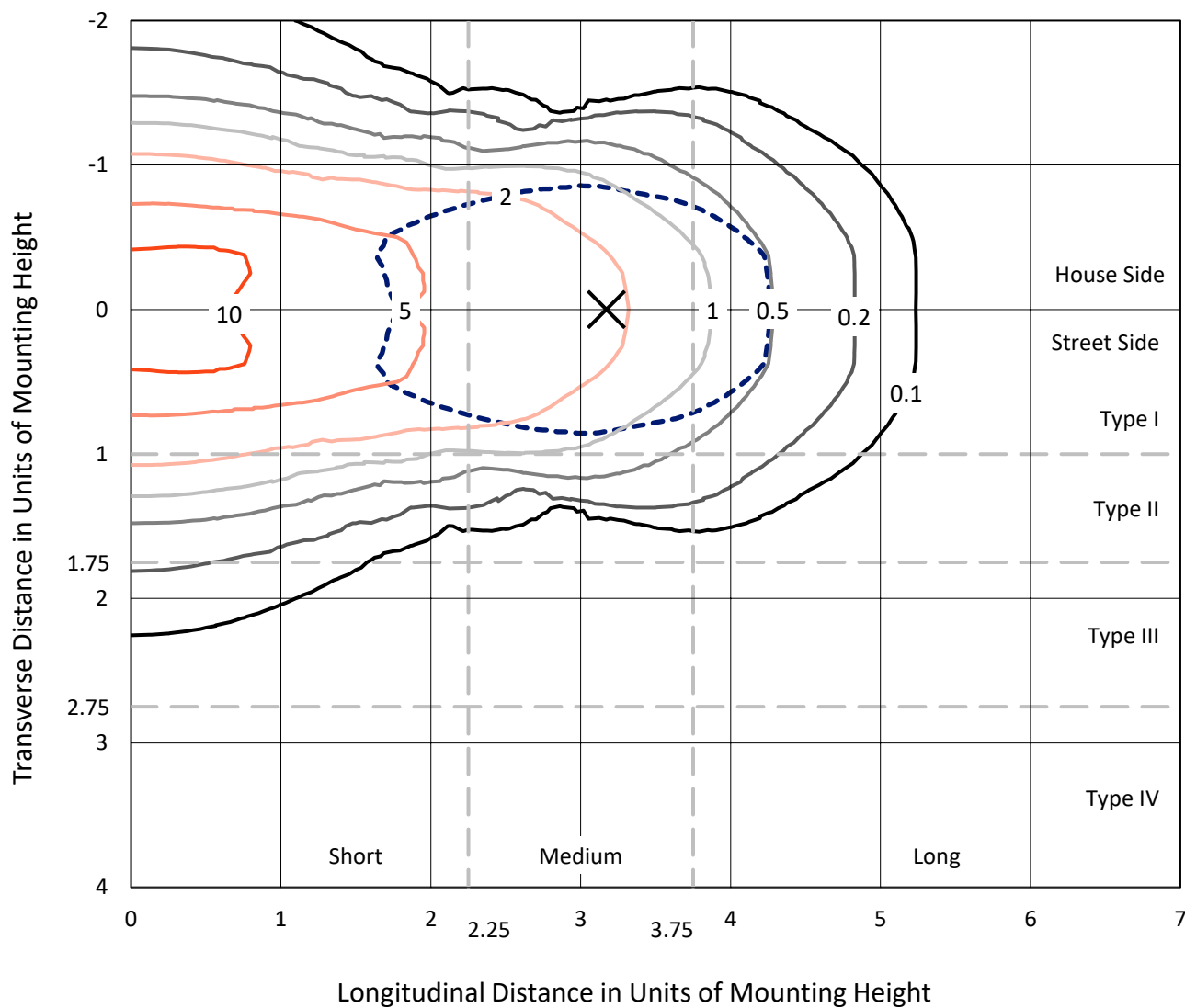
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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

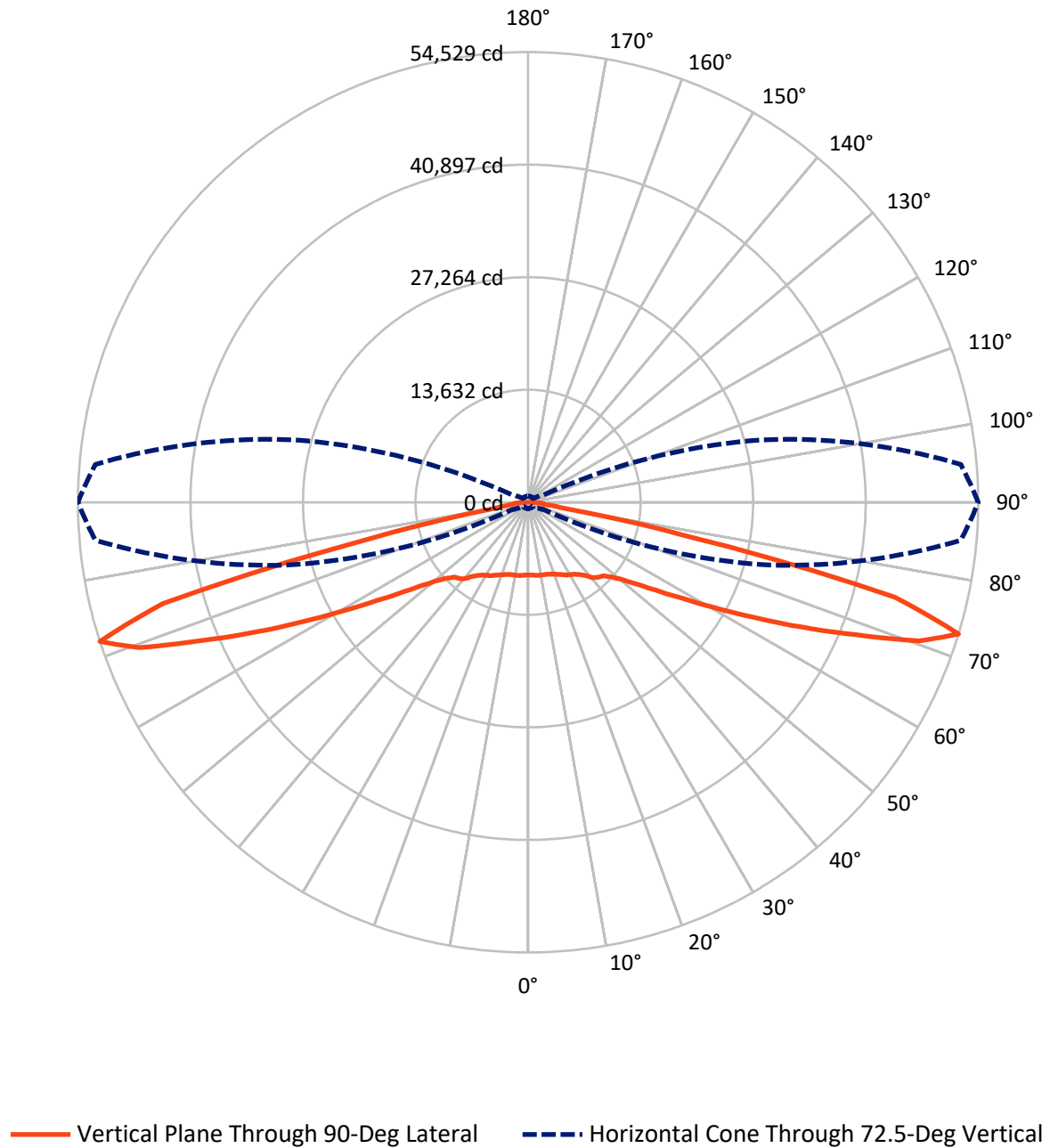


Based on 25 foot mounting height. Maximum calculated value = 14.1 fc  
 Type I - Short - N/A

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## Luminous Intensity Polar Plot



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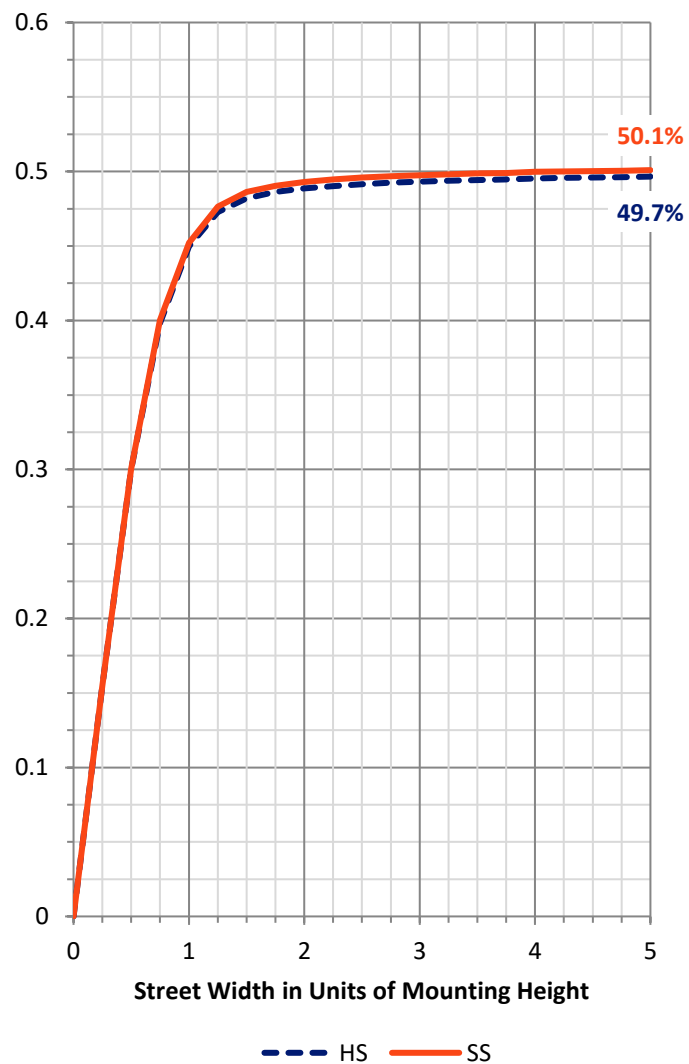
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 23583.5  | 0.0    | 23583.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 23583.5  | 0.0    | 23583.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 47167.0  | 0.0    | 47167.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 854.6   | 1.8       |
| 10°-20°   | 2613.0  | 5.5       |
| 20°-30°   | 4356.9  | 9.2       |
| 30°-40°   | 5992.1  | 12.7      |
| 40°-50°   | 7318.0  | 15.5      |
| 50°-60°   | 8464.1  | 17.9      |
| 60°-70°   | 10092.0 | 21.4      |
| 70°-80°   | 7043.6  | 14.9      |
| 80°-90°   | 432.6   | 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°    | 47167.0 | 100.0     |
| 0°-180°   | 47167.0 | 100.0     |

**Coefficient of Utilization**



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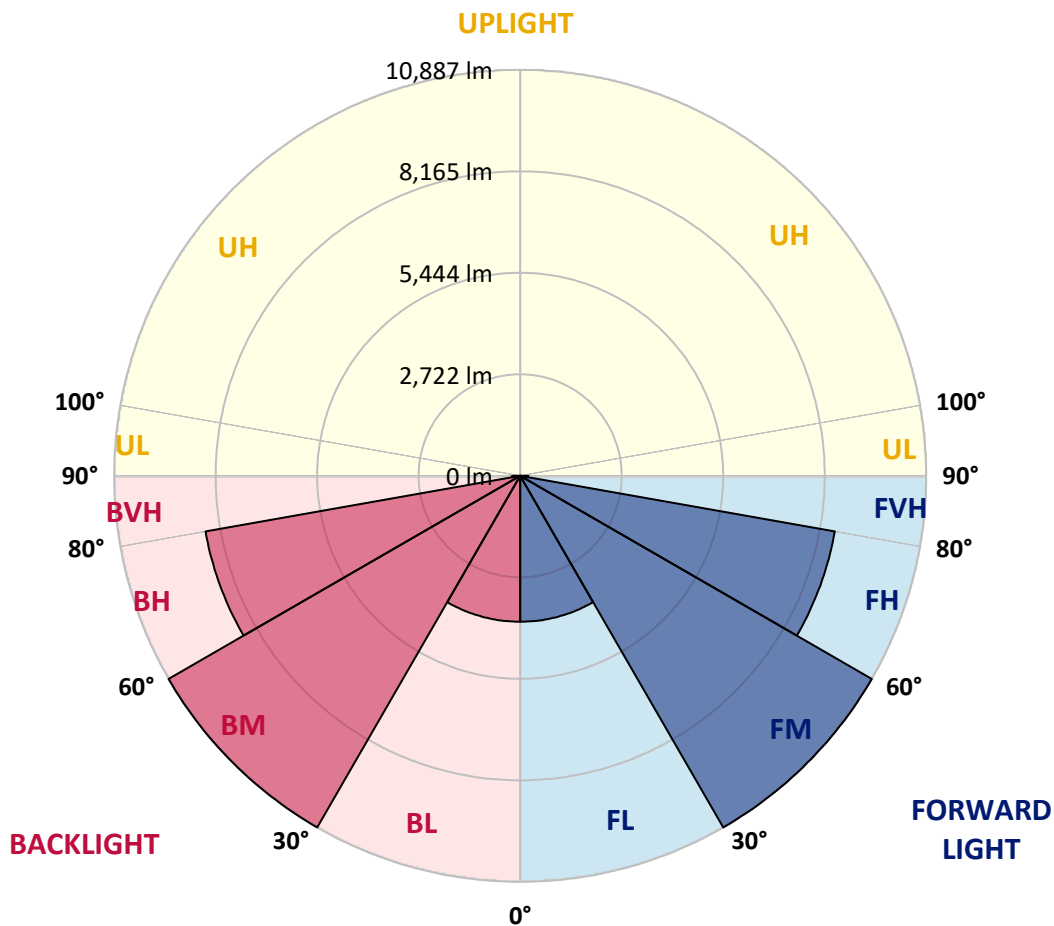
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 3912.3  | 8.3       |                         |      |          |
| FM   | (30°-60°)   | 10887.1 | 23.1      |                         |      |          |
| FH   | (60°-80°)   | 8567.8  | 18.2      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 216.3   | 0.5       |                         |      | G2/225   |
| BL   | (0°-30°)    | 3912.3  | 8.3       | B4/5000                 |      |          |
| BM   | (30°-60°)   | 10887.1 | 23.1      | B5                      |      |          |
| BH   | (60°-80°)   | 8567.8  | 18.2      | B5                      |      | G5       |
| BVH  | (80°-90°)   | 216.3   | 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°    | 8813.7 | 8813.7 | 8813.7 | 8813.7 | 8813.7 | 8813.7  | 8813.7  | 8813.7  | 8813.7  | 8813.7  | 8813.7  |
| 2.5°  | 8821.2 | 8831.2 | 8831.2 | 8823.7 | 8841.2 | 8826.2  | 8826.2  | 8818.7  | 8826.2  | 8818.7  | 8818.7  |
| 5°    | 8866.3 | 8878.8 | 8883.8 | 8881.3 | 8903.9 | 8891.4  | 8891.4  | 8881.3  | 8883.8  | 8876.3  | 8876.3  |
| 7.5°  | 8951.5 | 8969.1 | 8979.1 | 8991.6 | 9024.2 | 9009.2  | 8999.1  | 8969.1  | 8956.5  | 8936.5  | 8936.5  |
| 10°   | 8979.1 | 8999.1 | 9031.7 | 9096.9 | 9172.1 | 9174.6  | 9144.5  | 9069.3  | 9011.7  | 8966.6  | 8959.0  |
| 12.5° | 8893.9 | 8921.4 | 8989.1 | 9122.0 | 9289.9 | 9357.6  | 9310.0  | 9184.6  | 9071.8  | 8991.6  | 8979.1  |
| 15°   | 8786.1 | 8816.2 | 8918.9 | 9119.5 | 9367.6 | 9525.6  | 9520.5  | 9355.1  | 9174.6  | 9049.3  | 9029.2  |
| 17.5° | 8618.1 | 8648.2 | 8796.1 | 9076.9 | 9427.8 | 9688.5  | 9758.7  | 9588.2  | 9335.1  | 9167.1  | 9139.5  |
| 20°   | 8314.8 | 8342.4 | 8547.9 | 8941.5 | 9447.9 | 9861.5  | 10044.5 | 9894.1  | 9578.2  | 9350.1  | 9307.5  |
| 22.5° | 7921.3 | 7963.9 | 8204.5 | 8708.4 | 9400.2 | 10041.9 | 10370.3 | 10267.6 | 9861.5  | 9545.6  | 9488.0  |
| 25°   | 7500.1 | 7545.2 | 7826.0 | 8422.6 | 9277.4 | 10172.3 | 10756.4 | 10691.2 | 10182.3 | 9788.8  | 9708.6  |
| 27.5° | 7136.7 | 7184.3 | 7490.1 | 8139.3 | 9086.9 | 10222.4 | 11137.4 | 11170.0 | 10570.9 | 10057.0 | 9971.8  |
| 30°   | 6850.9 | 6896.0 | 7221.9 | 7911.2 | 8841.2 | 10172.3 | 11470.8 | 11696.4 | 10966.9 | 10290.1 | 10167.3 |
| 32.5° | 6537.5 | 6595.2 | 6938.6 | 7633.0 | 8550.4 | 10052.0 | 11761.6 | 12265.4 | 11425.7 | 10540.8 | 10385.4 |
| 35°   | 6141.5 | 6194.1 | 6555.1 | 7252.0 | 8169.4 | 9859.0  | 12004.7 | 12897.1 | 12082.4 | 10921.8 | 10748.8 |
| 37.5° | 5660.2 | 5710.3 | 6068.8 | 6775.7 | 7790.9 | 9588.2  | 12190.2 | 13609.0 | 12864.5 | 11470.8 | 11240.2 |
| 40°   | 5176.4 | 5224.0 | 5559.9 | 6244.3 | 7337.2 | 9242.3  | 12255.4 | 14305.9 | 13761.9 | 12225.3 | 11979.6 |
| 42.5° | 4732.7 | 4775.3 | 5083.6 | 5720.4 | 6828.3 | 8801.1  | 12170.2 | 14912.5 | 14566.6 | 12751.7 | 12435.9 |
| 45°   | 4324.1 | 4361.7 | 4634.9 | 5229.0 | 6299.4 | 8264.7  | 11914.5 | 15564.3 | 15524.2 | 13127.7 | 12701.6 |
| 47.5° | 3857.9 | 3895.5 | 4178.7 | 4752.8 | 5770.5 | 7635.5  | 11480.8 | 16206.0 | 16855.2 | 13980.0 | 13488.7 |
| 50°   | 3288.8 | 3321.4 | 3612.2 | 4203.8 | 5221.5 | 6966.2  | 10879.2 | 16709.8 | 18534.7 | 15271.0 | 14654.3 |
| 52.5° | 2614.5 | 2649.6 | 2932.9 | 3524.5 | 4569.8 | 6246.8  | 10087.1 | 17038.2 | 20474.9 | 17156.0 | 16396.5 |
| 55°   | 1945.2 | 1970.3 | 2215.9 | 2747.4 | 3762.6 | 5427.1  | 9094.4  | 17131.0 | 22675.9 | 19733.0 | 18782.9 |
| 57.5° | 1411.3 | 1426.3 | 1584.3 | 1980.3 | 2852.7 | 4401.8  | 7888.7  | 16890.3 | 25295.4 | 23036.8 | 21841.1 |
| 60°   | 1143.1 | 1148.1 | 1195.7 | 1371.2 | 1982.8 | 3243.7  | 6432.3  | 16063.1 | 28138.0 | 27295.7 | 25789.2 |
| 62.5° | 1037.8 | 1037.8 | 1050.3 | 1097.9 | 1341.1 | 2140.7  | 4670.0  | 14348.5 | 31186.2 | 32677.7 | 30659.8 |
| 65°   | 965.1  | 965.1  | 970.1  | 992.7  | 1057.8 | 1363.7  | 2947.9  | 11556.0 | 33755.6 | 38982.1 | 36430.3 |
| 67.5° | 899.9  | 902.4  | 899.9  | 907.4  | 945.0  | 1007.7  | 1709.6  | 7981.4  | 35139.3 | 45514.6 | 42759.7 |
| 70°   | 832.2  | 837.2  | 824.7  | 824.7  | 854.8  | 857.3   | 1070.4  | 4376.7  | 33991.2 | 50989.3 | 50264.9 |
| 72.5° | 752.0  | 759.5  | 739.5  | 734.5  | 757.0  | 747.0   | 804.7   | 2100.6  | 29183.3 | 52623.7 | 54528.8 |
| 75°   | 681.8  | 691.9  | 646.7  | 634.2  | 634.2  | 626.7   | 654.3   | 1077.9  | 18940.8 | 42927.7 | 45915.7 |
| 77.5° | 619.2  | 639.2  | 566.5  | 526.4  | 516.4  | 493.8   | 533.9   | 659.3   | 8284.7  | 20154.1 | 19735.5 |
| 80°   | 511.4  | 538.9  | 466.3  | 418.6  | 401.1  | 376.0   | 421.1   | 461.2   | 2464.1  | 4680.1  | 4482.0  |
| 82.5° | 381.0  | 393.6  | 330.9  | 298.3  | 283.3  | 265.7   | 315.8   | 320.9   | 802.2   | 1656.9  | 1872.5  |
| 85°   | 243.2  | 248.2  | 203.0  | 175.5  | 168.0  | 160.4   | 200.5   | 175.5   | 305.8   | 1218.3  | 1769.7  |
| 87.5° | 85.2   | 97.8   | 77.7   | 70.2   | 75.2   | 62.7    | 92.7    | 52.6    | 85.2    | 859.8   | 1065.4  |
| 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)