

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: P955225

Luminaire Tested: **GALN-SB8B-730-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P955225  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-20)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB8B-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(8) 70 CRI, 3000K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 47685 lumens  
Efficiency: N/A  
Efficacy: 162.9 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
Input Watts (W): 292.8  
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

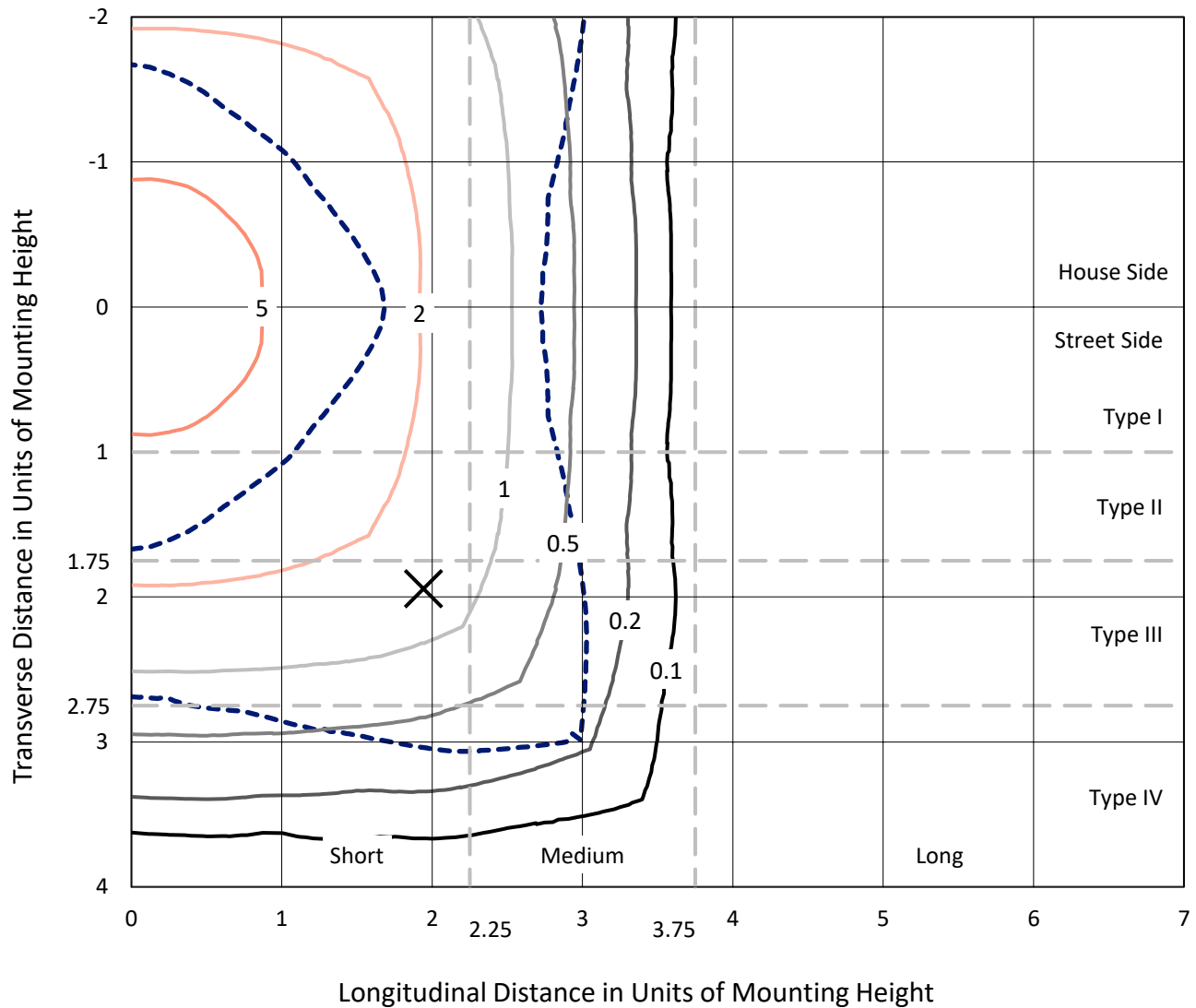


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd

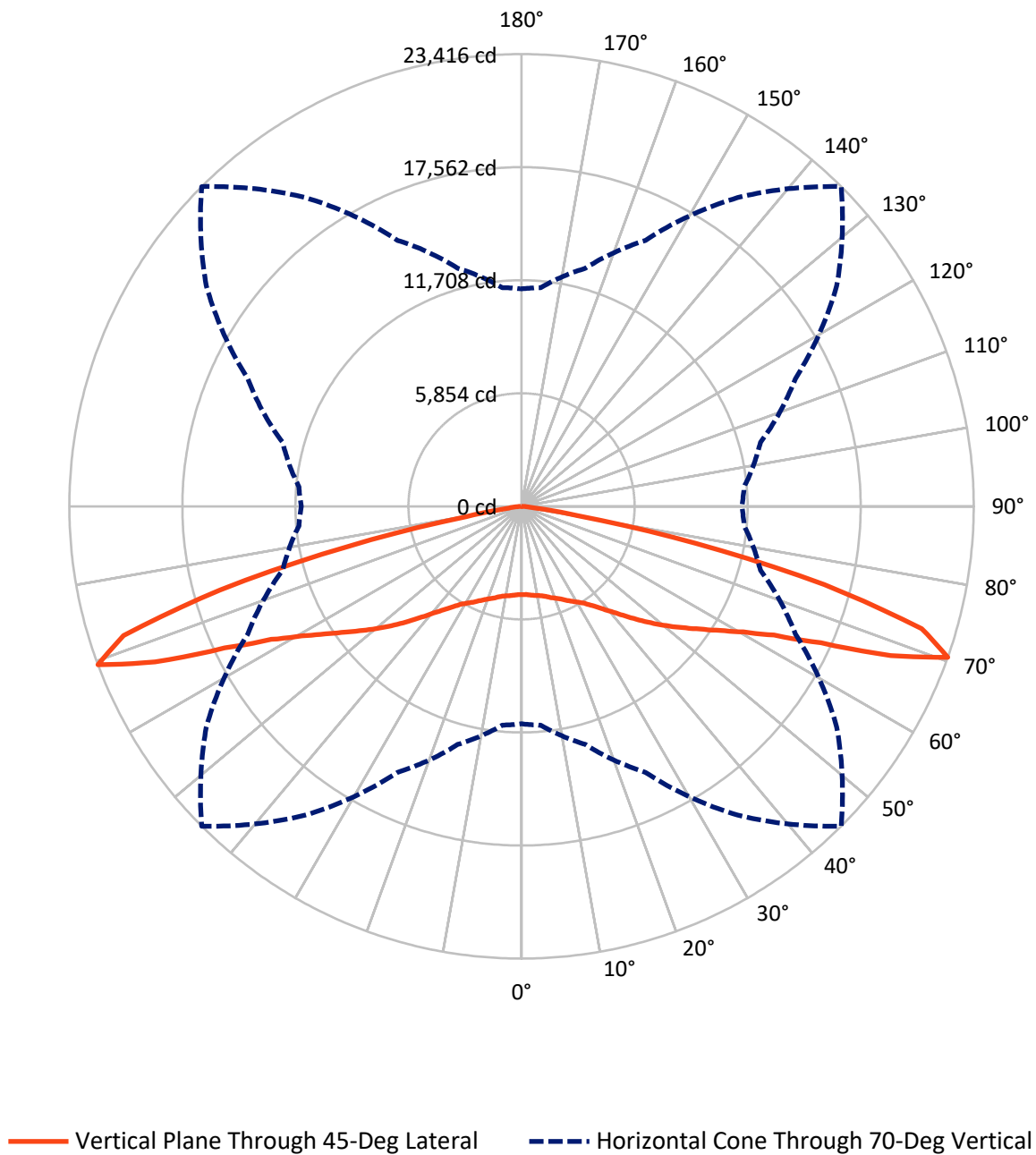


Based on 25 foot mounting height. Maximum calculated value = 7.3 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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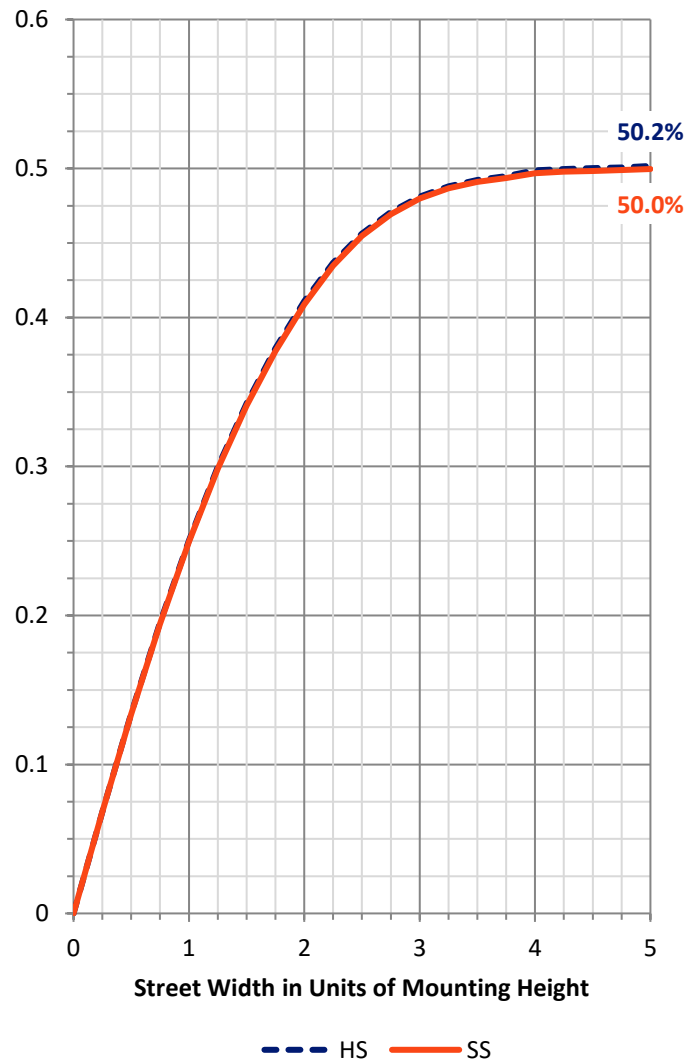
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 23842.5  | 0.0    | 23842.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 23842.5  | 0.0    | 23842.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 47685.0  | 0.0    | 47685.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 443.8   | 0.9       |
| 10°-20°   | 1376.0  | 2.9       |
| 20°-30°   | 2459.1  | 5.2       |
| 30°-40°   | 3986.2  | 8.4       |
| 40°-50°   | 6492.9  | 13.6      |
| 50°-60°   | 9899.5  | 20.8      |
| 60°-70°   | 14727.3 | 30.9      |
| 70°-80°   | 8026.9  | 16.8      |
| 80°-90°   | 273.3   | 0.6       |
| 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°    | 47685.0 | 100.0     |
| 0°-180°   | 47685.0 | 100.0     |

**Coefficient of Utilization**



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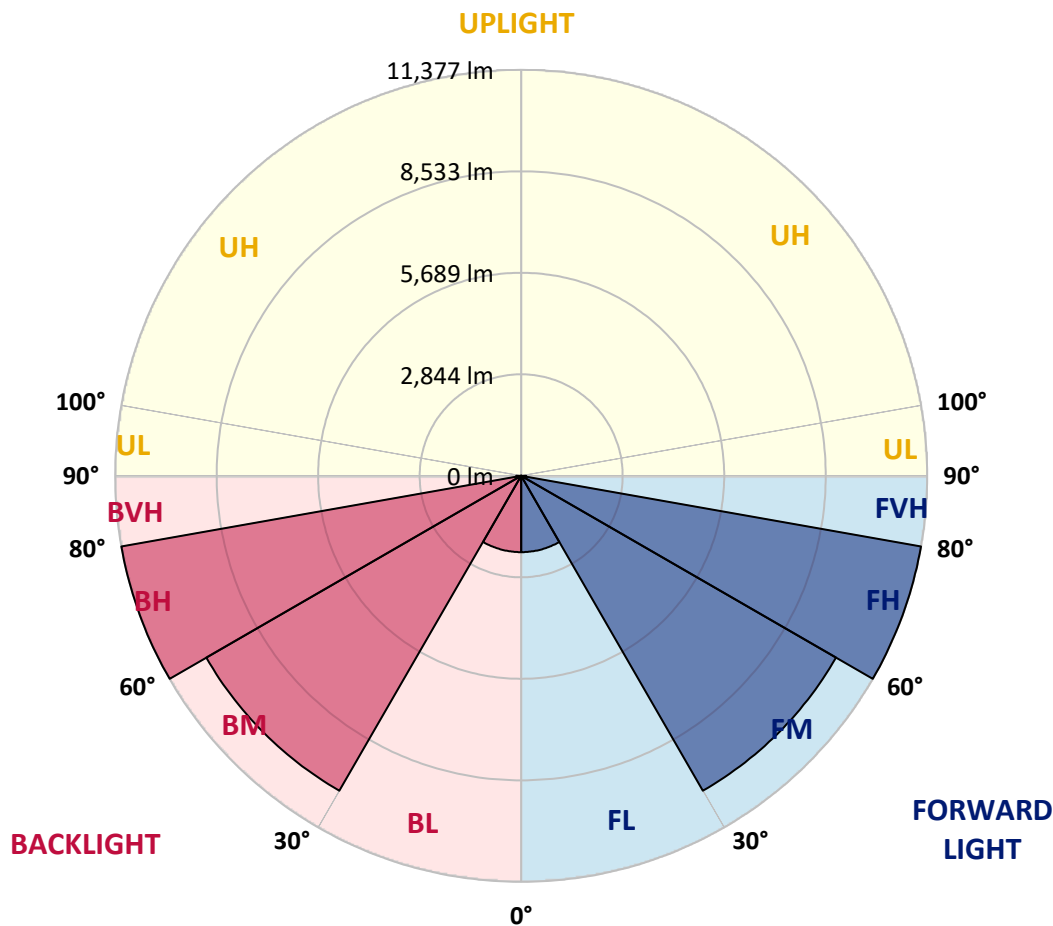
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|---------|-----------|-------------------------|------|----------|
|      |             |         |           | B                       | U    | G        |
| FL   | (0°-30°)    | 2139.5  | 4.5       |                         |      |          |
| FM   | (30°-60°)   | 10189.3 | 21.4      |                         |      |          |
| FH   | (60°-80°)   | 11377.1 | 23.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 136.7   | 0.3       |                         |      | G2/225   |
| BL   | (0°-30°)    | 2139.5  | 4.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 10189.3 | 21.4      | B5                      |      |          |
| BH   | (60°-80°)   | 11377.1 | 23.9      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 136.7   | 0.3       |                         |      | G2/225   |
| UL   | (90°-100°)  | 0.0     | 0.0       |                         | U0/0 |          |
| UH   | (100°-180°) | 0.0     | 0.0       |                         | U0/0 |          |

**BUG Rating: B5-U0-G4**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4567.7  | 4567.7  | 4567.7  | 4567.7  | 4567.7  | 4567.7  | 4567.7  | 4567.7  | 4567.7  | 4567.7  | 4567.7  |
| 2.5°  | 4589.3  | 4594.1  | 4584.5  | 4579.7  | 4574.9  | 4567.7  | 4570.1  | 4582.1  | 4591.7  | 4589.3  | 4591.7  |
| 5°    | 4627.6  | 4632.4  | 4625.2  | 4622.8  | 4613.2  | 4610.8  | 4610.8  | 4622.8  | 4630.0  | 4625.2  | 4627.6  |
| 7.5°  | 4670.7  | 4677.9  | 4665.9  | 4663.5  | 4658.7  | 4653.9  | 4651.5  | 4663.5  | 4670.7  | 4670.7  | 4670.7  |
| 10°   | 4711.4  | 4718.6  | 4709.0  | 4701.8  | 4697.0  | 4697.0  | 4692.2  | 4701.8  | 4713.8  | 4711.4  | 4711.4  |
| 12.5° | 4754.5  | 4759.2  | 4749.7  | 4744.9  | 4744.9  | 4752.1  | 4744.9  | 4749.7  | 4759.2  | 4754.5  | 4752.1  |
| 15°   | 4807.1  | 4809.5  | 4807.1  | 4814.3  | 4826.3  | 4850.2  | 4828.7  | 4823.9  | 4828.7  | 4816.7  | 4816.7  |
| 17.5° | 4878.9  | 4883.7  | 4893.3  | 4910.1  | 4926.8  | 4969.9  | 4931.6  | 4919.6  | 4919.6  | 4895.7  | 4895.7  |
| 20°   | 4967.5  | 4974.7  | 4989.1  | 5017.8  | 5039.3  | 5080.0  | 5041.7  | 5025.0  | 5017.8  | 4986.7  | 4986.7  |
| 22.5° | 5060.9  | 5072.9  | 5094.4  | 5132.7  | 5171.0  | 5209.3  | 5171.0  | 5142.3  | 5120.7  | 5080.0  | 5077.6  |
| 25°   | 5168.6  | 5183.0  | 5216.5  | 5278.7  | 5331.4  | 5386.5  | 5341.0  | 5283.5  | 5240.4  | 5183.0  | 5180.6  |
| 27.5° | 5321.8  | 5338.6  | 5379.3  | 5455.9  | 5522.9  | 5570.8  | 5527.7  | 5453.5  | 5393.7  | 5324.2  | 5321.8  |
| 30°   | 5537.3  | 5554.1  | 5601.9  | 5683.3  | 5728.8  | 5759.9  | 5731.2  | 5673.8  | 5601.9  | 5522.9  | 5522.9  |
| 32.5° | 5815.0  | 5836.5  | 5889.2  | 5965.8  | 5975.4  | 5980.2  | 5970.6  | 5941.9  | 5889.2  | 5793.5  | 5795.8  |
| 35°   | 6166.9  | 6190.9  | 6250.7  | 6312.9  | 6303.4  | 6312.9  | 6298.6  | 6289.0  | 6250.7  | 6140.6  | 6140.6  |
| 37.5° | 6597.8  | 6626.6  | 6688.8  | 6736.7  | 6712.7  | 6700.8  | 6703.2  | 6705.6  | 6684.0  | 6561.9  | 6561.9  |
| 40°   | 7098.2  | 7136.5  | 7182.0  | 7232.2  | 7191.5  | 7155.6  | 7179.6  | 7198.7  | 7179.6  | 7055.1  | 7055.1  |
| 42.5° | 7612.9  | 7667.9  | 7715.8  | 7787.6  | 7754.1  | 7708.6  | 7742.2  | 7763.7  | 7723.0  | 7588.9  | 7598.5  |
| 45°   | 8185.0  | 8237.7  | 8300.0  | 8407.7  | 8383.7  | 8335.9  | 8383.7  | 8388.5  | 8319.1  | 8161.1  | 8177.9  |
| 47.5° | 8776.4  | 8831.4  | 8924.8  | 9068.4  | 9058.9  | 9006.2  | 9068.4  | 9034.9  | 8946.3  | 8757.2  | 8745.2  |
| 50°   | 9336.6  | 9413.2  | 9556.8  | 9757.9  | 9777.0  | 9712.4  | 9796.2  | 9731.6  | 9583.1  | 9346.1  | 9341.3  |
| 52.5° | 9863.2  | 9944.6  | 10172.1 | 10445.0 | 10514.4 | 10430.6 | 10543.1 | 10430.6 | 10208.0 | 9903.9  | 9875.2  |
| 55°   | 10416.2 | 10507.2 | 10777.7 | 11134.4 | 11273.3 | 11211.0 | 11316.4 | 11146.4 | 10830.4 | 10461.7 | 10411.5 |
| 57.5° | 11067.4 | 11122.5 | 11445.7 | 11869.4 | 12104.0 | 12118.4 | 12166.2 | 11879.0 | 11495.9 | 11077.0 | 11019.5 |
| 60°   | 11773.6 | 11850.2 | 12202.2 | 12709.7 | 13080.8 | 13200.5 | 13150.2 | 12724.0 | 12278.8 | 11797.6 | 11721.0 |
| 62.5° | 12678.6 | 12762.4 | 13183.7 | 13791.8 | 14378.3 | 14675.1 | 14478.8 | 13861.2 | 13310.6 | 12733.6 | 12633.1 |
| 65°   | 13427.9 | 13521.2 | 14282.5 | 15367.0 | 16434.7 | 17030.8 | 16537.7 | 15400.5 | 14409.4 | 13595.5 | 13461.4 |
| 67.5° | 12884.4 | 12999.4 | 14194.0 | 16185.8 | 18840.7 | 20619.4 | 18931.7 | 16429.9 | 14488.4 | 13384.8 | 13219.6 |
| 70°   | 11261.3 | 11369.0 | 12762.4 | 15197.0 | 19518.2 | 23415.6 | 19925.2 | 15644.7 | 12807.8 | 11572.5 | 11407.4 |
| 72.5° | 7476.4  | 7823.6  | 9233.6  | 12154.3 | 17428.2 | 21668.0 | 17600.6 | 11907.7 | 8565.7  | 7459.7  | 7217.9  |
| 75°   | 2480.2  | 2757.9  | 3720.3  | 6301.0  | 11673.1 | 16204.9 | 11112.9 | 5575.6  | 2947.0  | 2121.1  | 2006.2  |
| 77.5° | 624.8   | 720.6   | 993.5   | 1802.7  | 4656.3  | 9226.4  | 4191.9  | 1472.3  | 802.0   | 560.2   | 500.3   |
| 80°   | 304.0   | 335.2   | 478.8   | 600.9   | 1165.9  | 2932.6  | 1094.1  | 565.0   | 378.3   | 292.1   | 268.1   |
| 82.5° | 167.6   | 170.0   | 270.5   | 339.9   | 433.3   | 758.9   | 450.1   | 330.4   | 217.9   | 177.2   | 177.2   |
| 85°   | 102.9   | 100.5   | 143.6   | 181.9   | 181.9   | 270.5   | 215.5   | 181.9   | 124.5   | 110.1   | 114.9   |
| 87.5° | 40.7    | 40.7    | 52.7    | 57.5    | 50.3    | 69.4    | 55.1    | 59.8    | 47.9    | 45.5    | 47.9    |
| 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)