

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: P941950

Luminaire Tested: **GALN-SB5D-727-U-5WQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P941950  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-1)  
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-5WQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 48227 lumens  
Efficiency: N/A  
Efficacy: 132.2 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type V - 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

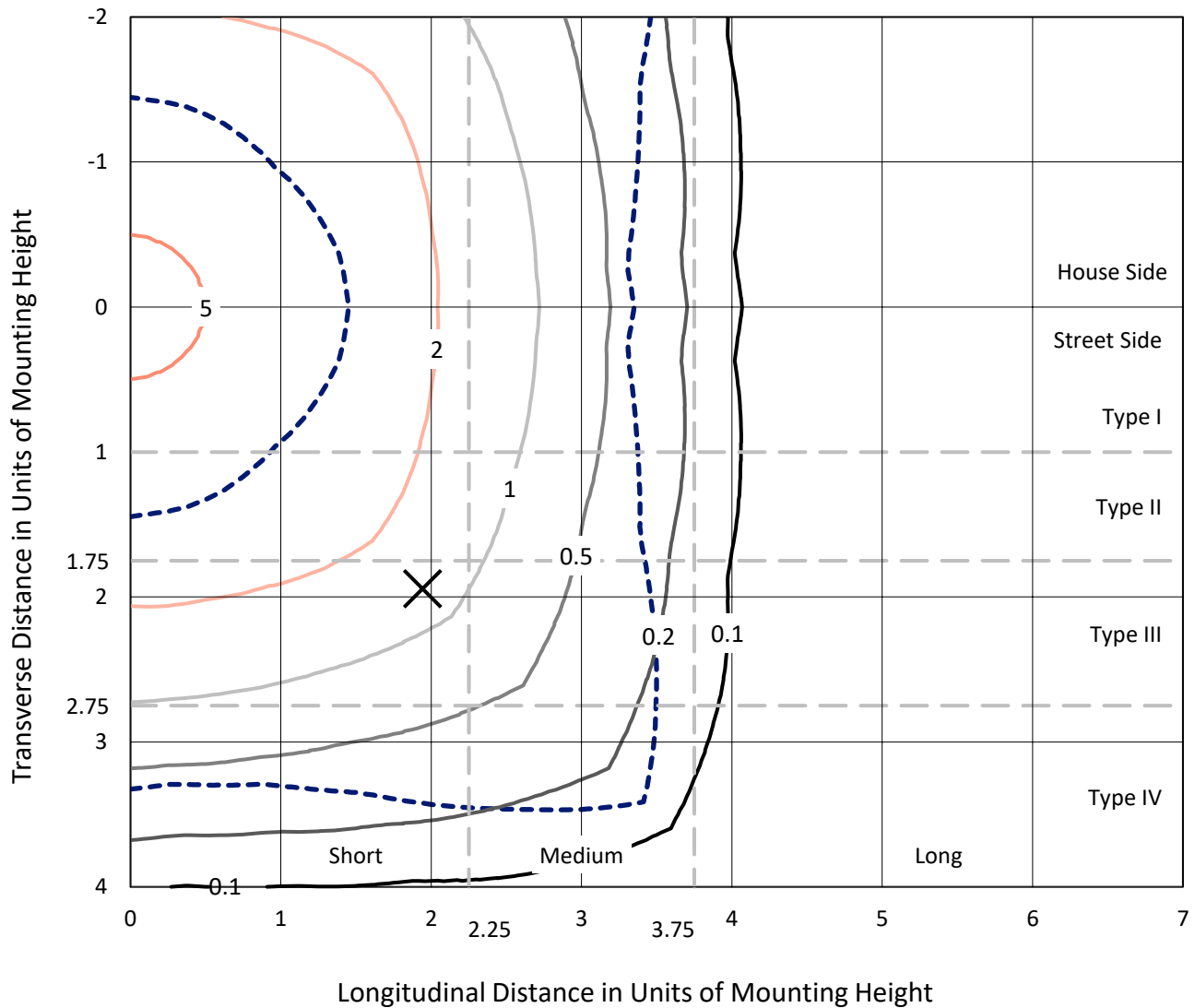


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

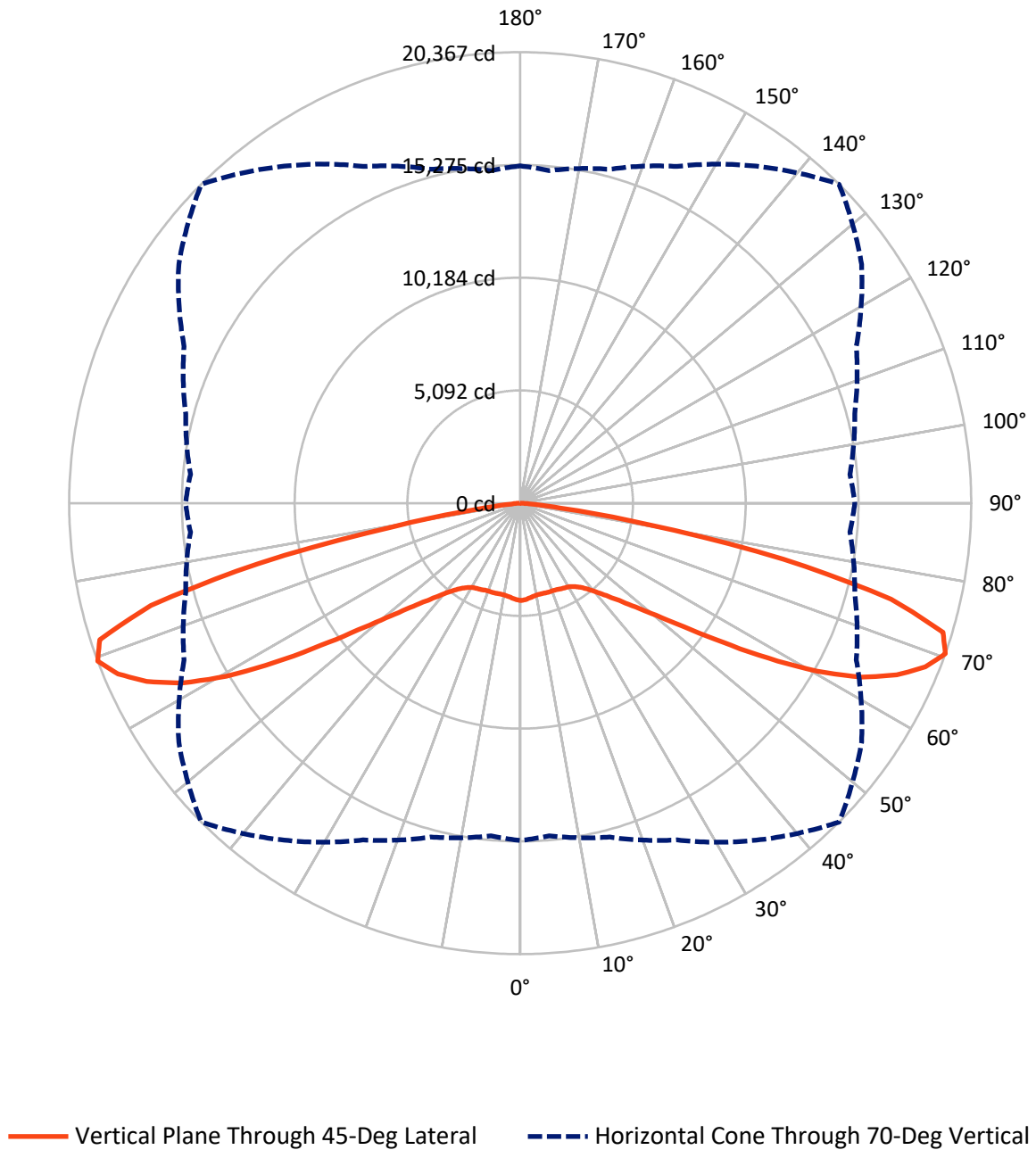


Based on 25 foot mounting height. Maximum calculated value = 7 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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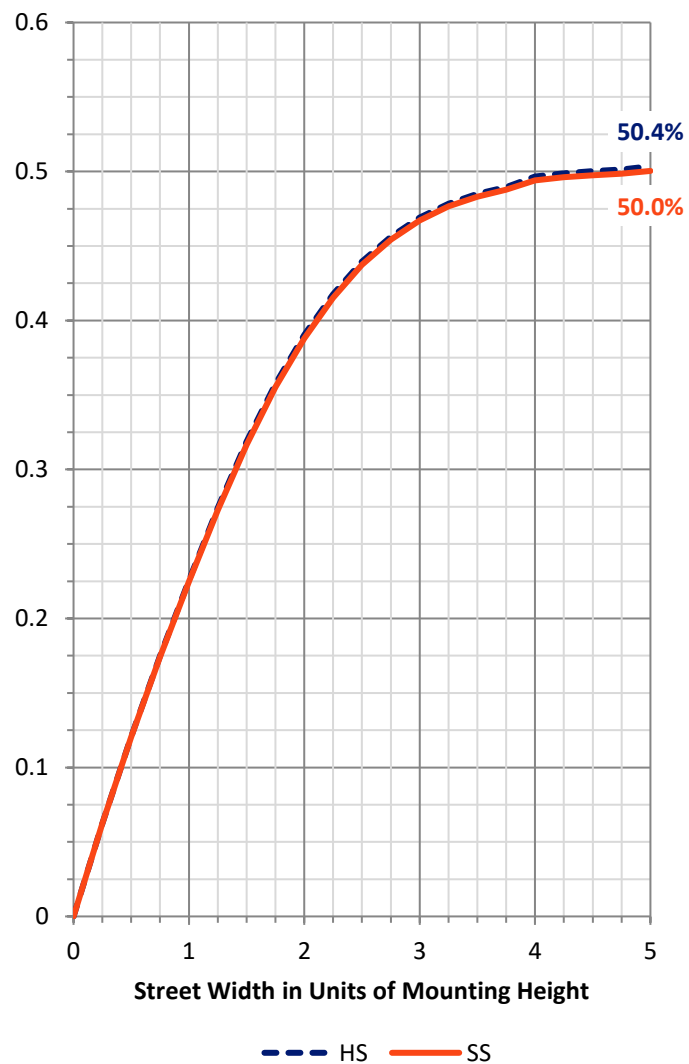
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 24113.5  | 0.0    | 24113.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 24113.5  | 0.0    | 24113.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 48227.0  | 0.0    | 48227.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 409.2   | 0.8       |
| 10°-20°   | 1201.6  | 2.5       |
| 20°-30°   | 1999.7  | 4.1       |
| 30°-40°   | 3024.1  | 6.3       |
| 40°-50°   | 5025.3  | 10.4      |
| 50°-60°   | 9482.6  | 19.7      |
| 60°-70°   | 16011.8 | 33.2      |
| 70°-80°   | 10521.4 | 21.8      |
| 80°-90°   | 551.2   | 1.1       |
| 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°    | 48227.0 | 100.0     |
| 0°-180°   | 48227.0 | 100.0     |

**Coefficient of Utilization**



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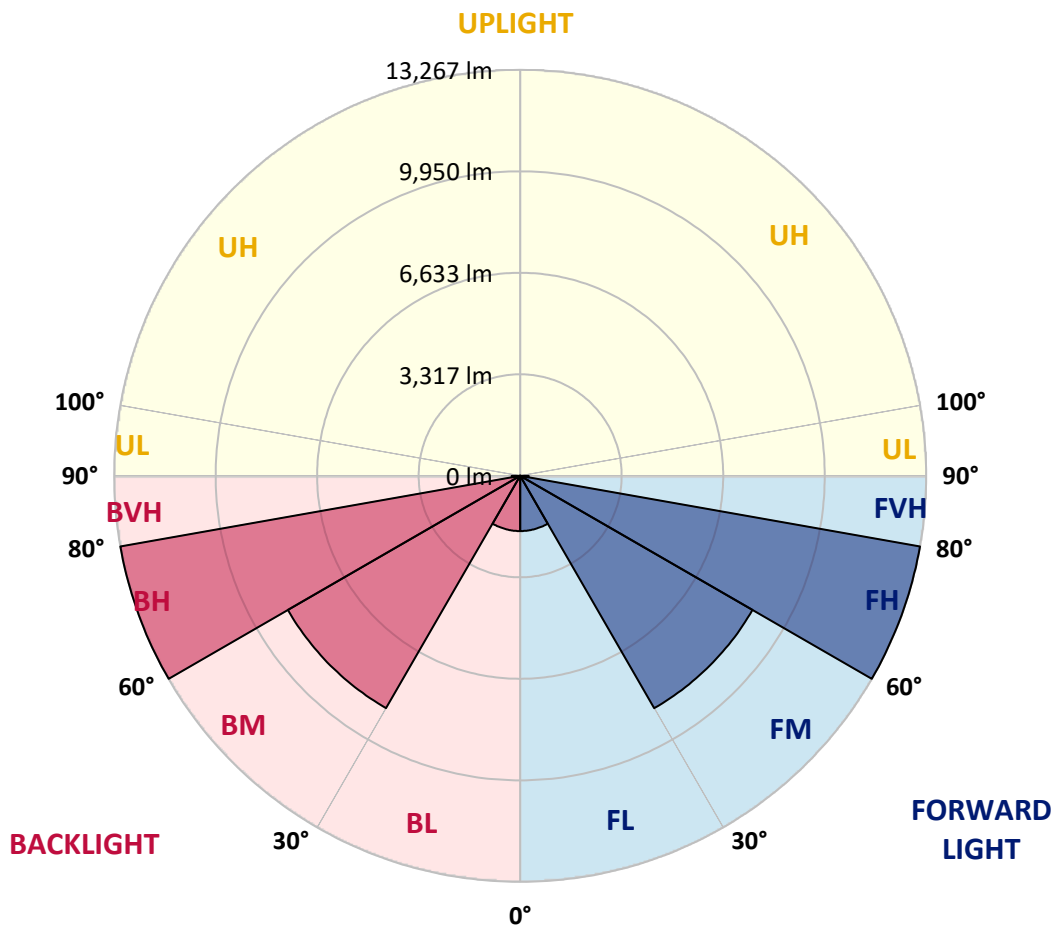
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens  | % Fixture | Zone Rating/Lumen Limit |      |        |
|------|-------------|---------|-----------|-------------------------|------|--------|
|      |             |         |           | B                       | U    | G      |
| FL   | (0°-30°)    | 1805.3  | 3.7       |                         |      |        |
| FM   | (30°-60°)   | 8766.0  | 18.2      |                         |      |        |
| FH   | (60°-80°)   | 13266.6 | 27.5      |                         |      | G5     |
| FVH  | (80°-90°)   | 275.6   | 0.6       |                         |      | G3/500 |
| BL   | (0°-30°)    | 1805.3  | 3.7       | B3/2500                 |      |        |
| BM   | (30°-60°)   | 8766.0  | 18.2      | B5                      |      |        |
| BH   | (60°-80°)   | 13266.6 | 27.5      | B5                      |      | G5     |
| BVH  | (80°-90°)   | 275.6   | 0.6       |                         |      | 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 V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 5°      | 15°     | 25°     | 35°     | 45°     | 55°     | 65°     | 75°     | 85°     | 90°     |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 4399.3  | 4399.3  | 4399.3  | 4399.3  | 4399.3  | 4399.3  | 4399.3  | 4399.3  | 4399.3  | 4399.3  | 4399.3  |
| 2.5°  | 4371.7  | 4384.2  | 4379.2  | 4369.2  | 4369.2  | 4361.7  | 4369.2  | 4374.2  | 4381.7  | 4386.7  | 4384.2  |
| 5°    | 4314.0  | 4324.1  | 4321.6  | 4314.0  | 4316.6  | 4309.0  | 4314.0  | 4321.6  | 4326.6  | 4329.1  | 4329.1  |
| 7.5°  | 4263.9  | 4273.9  | 4268.9  | 4256.4  | 4256.4  | 4248.9  | 4251.4  | 4258.9  | 4266.4  | 4268.9  | 4268.9  |
| 10°   | 4251.4  | 4261.4  | 4246.4  | 4226.3  | 4218.8  | 4208.8  | 4211.3  | 4218.8  | 4233.8  | 4241.4  | 4241.4  |
| 12.5° | 4256.4  | 4263.9  | 4248.9  | 4218.8  | 4211.3  | 4201.2  | 4201.2  | 4208.8  | 4228.8  | 4238.8  | 4241.4  |
| 15°   | 4271.4  | 4279.0  | 4256.4  | 4223.8  | 4216.3  | 4208.8  | 4206.3  | 4216.3  | 4238.8  | 4256.4  | 4258.9  |
| 17.5° | 4299.0  | 4306.5  | 4271.4  | 4226.3  | 4216.3  | 4218.8  | 4216.3  | 4223.8  | 4258.9  | 4291.5  | 4291.5  |
| 20°   | 4324.1  | 4329.1  | 4281.5  | 4226.3  | 4216.3  | 4218.8  | 4216.3  | 4231.3  | 4276.4  | 4321.6  | 4324.1  |
| 22.5° | 4331.6  | 4336.6  | 4291.5  | 4243.9  | 4236.3  | 4238.8  | 4236.3  | 4251.4  | 4294.0  | 4339.1  | 4339.1  |
| 25°   | 4334.1  | 4341.6  | 4306.5  | 4268.9  | 4281.5  | 4286.5  | 4281.5  | 4284.0  | 4316.6  | 4356.7  | 4354.2  |
| 27.5° | 4371.7  | 4381.7  | 4349.1  | 4316.6  | 4324.1  | 4321.6  | 4329.1  | 4336.6  | 4361.7  | 4401.8  | 4391.8  |
| 30°   | 4449.4  | 4456.9  | 4429.4  | 4396.8  | 4391.8  | 4374.2  | 4396.8  | 4421.8  | 4449.4  | 4484.5  | 4477.0  |
| 32.5° | 4577.2  | 4592.3  | 4557.2  | 4522.1  | 4499.5  | 4489.5  | 4507.1  | 4549.7  | 4587.3  | 4624.9  | 4609.8  |
| 35°   | 4790.3  | 4800.3  | 4767.8  | 4702.6  | 4662.5  | 4662.5  | 4677.5  | 4732.7  | 4792.8  | 4840.5  | 4822.9  |
| 37.5° | 5091.1  | 5103.7  | 5046.0  | 4968.3  | 4908.1  | 4908.1  | 4928.2  | 4985.8  | 5076.1  | 5143.8  | 5118.7  |
| 40°   | 5457.1  | 5474.7  | 5402.0  | 5321.7  | 5264.1  | 5254.1  | 5279.1  | 5344.3  | 5429.5  | 5514.8  | 5487.2  |
| 42.5° | 5898.3  | 5918.3  | 5823.1  | 5752.9  | 5707.8  | 5707.8  | 5720.3  | 5780.5  | 5858.2  | 5963.5  | 5955.9  |
| 45°   | 6462.3  | 6497.4  | 6367.0  | 6296.9  | 6254.2  | 6264.3  | 6271.8  | 6324.4  | 6394.6  | 6514.9  | 6509.9  |
| 47.5° | 7134.1  | 7169.2  | 7031.3  | 6958.6  | 6951.1  | 6998.7  | 6968.6  | 7006.3  | 7043.9  | 7181.7  | 7141.6  |
| 50°   | 7896.1  | 7956.3  | 7861.0  | 7856.0  | 7871.1  | 7958.8  | 7888.6  | 7908.7  | 7866.1  | 7953.8  | 7901.1  |
| 52.5° | 8828.6  | 8916.4  | 8898.8  | 8928.9  | 9096.8  | 9277.3  | 9116.9  | 9046.7  | 8886.3  | 8913.9  | 8821.1  |
| 55°   | 9959.2  | 10092.0 | 10117.1 | 10297.6 | 10678.6 | 11047.1 | 10706.2 | 10422.9 | 10082.0 | 10019.3 | 9921.6  |
| 57.5° | 11245.1 | 11350.4 | 11470.7 | 11839.2 | 12551.1 | 13205.3 | 12551.1 | 11924.4 | 11388.0 | 11260.1 | 11169.9 |
| 60°   | 12628.8 | 12759.1 | 12874.5 | 13418.4 | 14476.2 | 15396.2 | 14456.2 | 13461.0 | 12751.6 | 12578.7 | 12428.3 |
| 62.5° | 14115.3 | 14283.2 | 14363.4 | 14967.6 | 16200.9 | 17298.8 | 16218.4 | 15012.7 | 14225.6 | 14040.1 | 13889.7 |
| 65°   | 15541.6 | 15679.5 | 15769.7 | 16413.9 | 17592.1 | 18692.5 | 17672.3 | 16484.1 | 15674.4 | 15431.3 | 15311.0 |
| 67.5° | 16205.9 | 16281.1 | 16501.7 | 17231.1 | 18474.4 | 19730.3 | 18685.0 | 17308.8 | 16403.9 | 15977.8 | 15982.8 |
| 70°   | 15233.3 | 15080.4 | 15611.8 | 16779.9 | 18579.7 | 20367.0 | 18820.4 | 16744.8 | 15636.8 | 14945.0 | 15110.4 |
| 72.5° | 11771.5 | 11508.3 | 12430.8 | 14428.6 | 17376.5 | 19960.9 | 17496.8 | 14541.4 | 13004.8 | 11601.0 | 11949.5 |
| 75°   | 6404.6  | 6106.3  | 7379.7  | 9906.5  | 13857.1 | 17301.3 | 14175.4 | 10189.8 | 8217.0  | 6357.0  | 6770.6  |
| 77.5° | 1807.3  | 1694.5  | 2722.3  | 4792.8  | 8334.8  | 12147.5 | 8655.7  | 4898.1  | 3228.6  | 1915.1  | 2128.2  |
| 80°   | 554.0   | 536.4   | 726.9   | 1443.9  | 3539.5  | 5818.1  | 3401.6  | 1461.4  | 925.0   | 584.1   | 616.7   |
| 82.5° | 328.4   | 300.8   | 361.0   | 526.4   | 902.4   | 1827.4  | 877.3   | 549.0   | 441.2   | 295.8   | 320.9   |
| 85°   | 188.0   | 175.5   | 213.1   | 255.7   | 303.3   | 388.5   | 253.2   | 260.7   | 235.6   | 157.9   | 165.4   |
| 87.5° | 77.7    | 70.2    | 82.7    | 80.2    | 70.2    | 90.2    | 67.7    | 80.2    | 95.3    | 62.7    | 57.7    |
| 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)