

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: P948758

Luminaire Tested: **GALN-SB3D-722-U-5NQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P948758  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-18)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB3D-722-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2200K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 26430 lumens  
Efficiency: N/A  
Efficacy: 121.2 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B4 - U0 - G2  
  
Input Watts (W): 218.1  
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

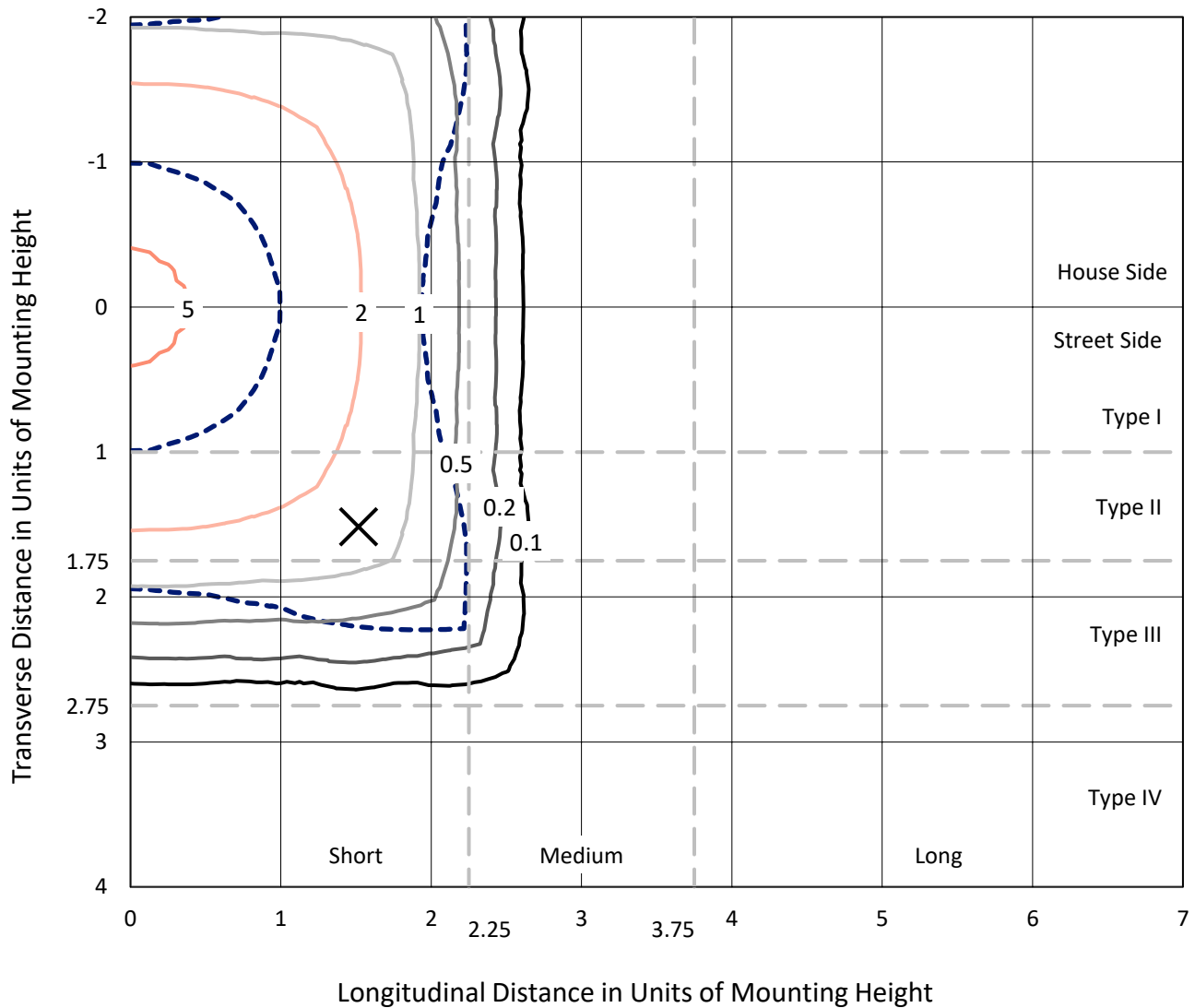


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd

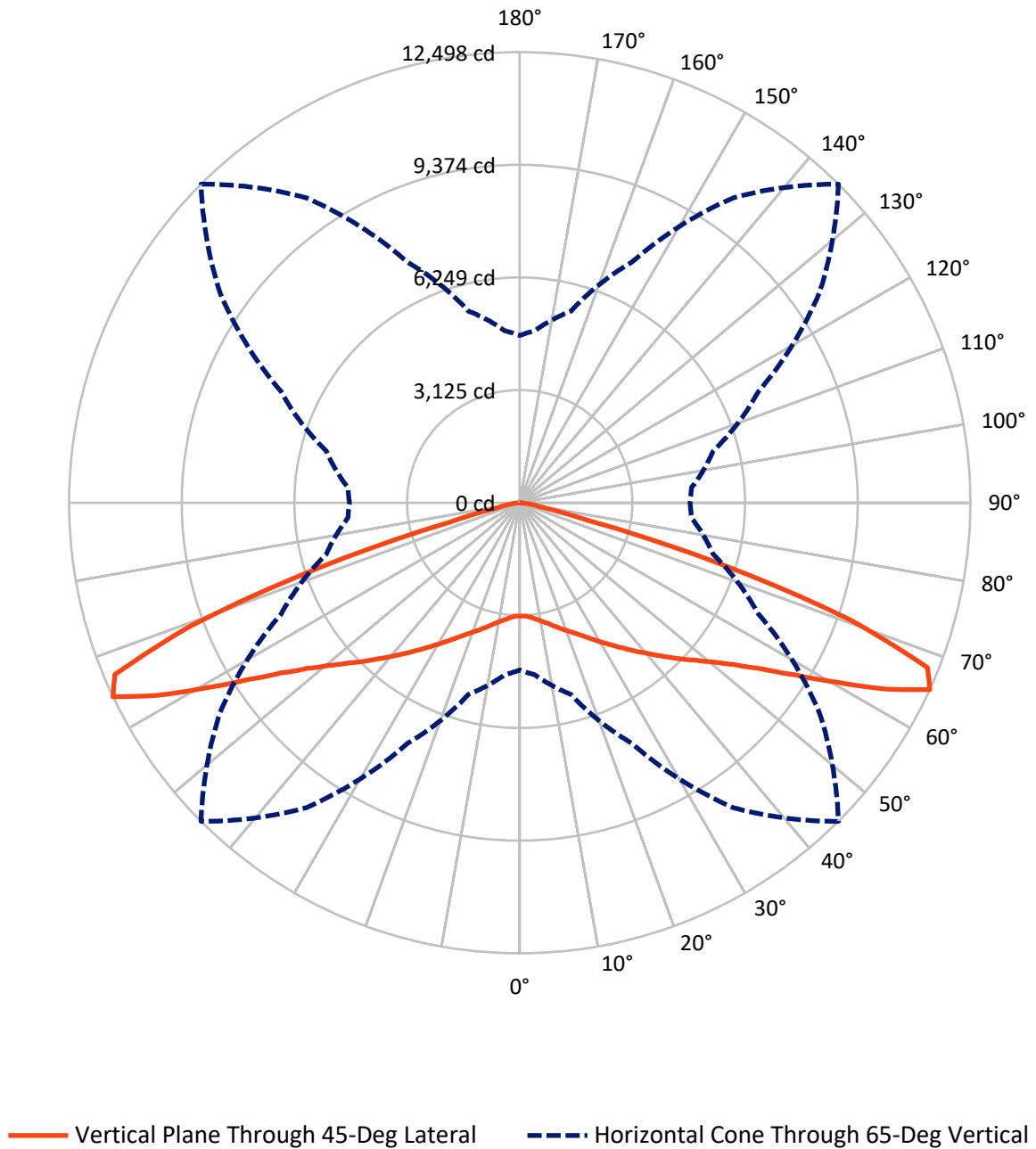


Based on 25 foot mounting height. Maximum calculated value = 5.1 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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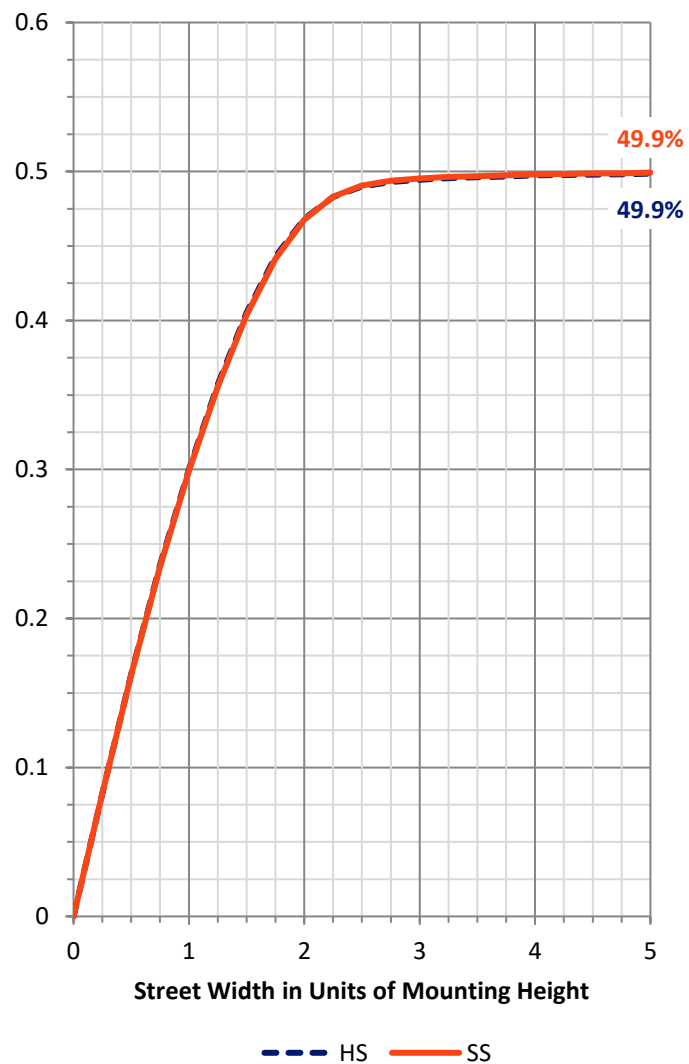
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 13215.0  | 0.0    | 13215.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 13215.0  | 0.0    | 13215.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 26430.0  | 0.0    | 26430.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 310.4   | 1.2       |
| 10°-20°   | 1012.9  | 3.8       |
| 20°-30°   | 1912.5  | 7.2       |
| 30°-40°   | 3131.7  | 11.8      |
| 40°-50°   | 4855.8  | 18.4      |
| 50°-60°   | 7173.0  | 27.1      |
| 60°-70°   | 6828.0  | 25.8      |
| 70°-80°   | 1101.8  | 4.2       |
| 80°-90°   | 103.9   | 0.4       |
| 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°    | 26430.0 | 100.0     |
| 0°-180°   | 26430.0 | 100.0     |

**Coefficient of Utilization**



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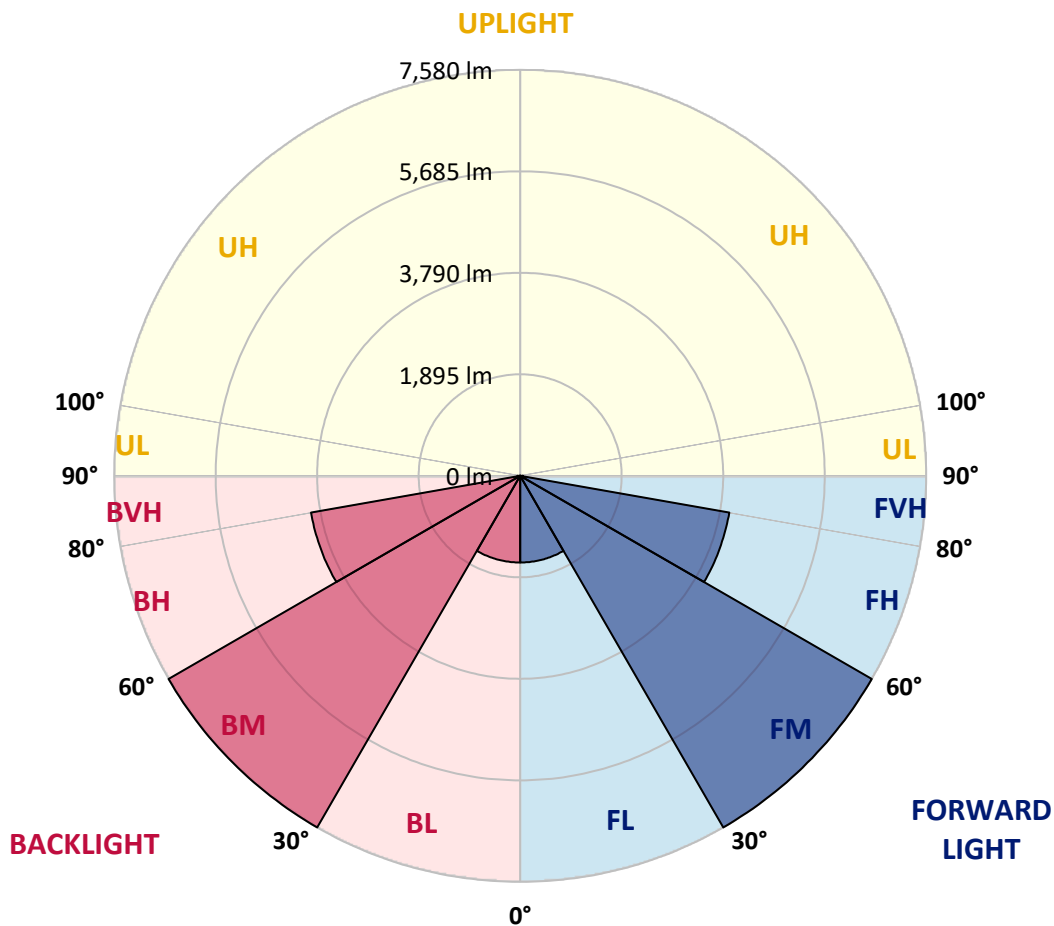
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1618.0 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 7580.2 | 28.7      |                         |      |         |
| FH   | (60°-80°)   | 3964.9 | 15.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 51.9   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1618.0 | 6.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 7580.2 | 28.7      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3964.9 | 15.0      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 51.9   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 3145.4 | 3145.4 | 3145.4 | 3145.4 | 3145.4  | 3145.4  | 3145.4  | 3145.4 | 3145.4 | 3145.4 | 3145.4 |
| 2.5°  | 3166.7 | 3156.0 | 3164.0 | 3157.4 | 3152.1  | 3146.8  | 3149.4  | 3158.7 | 3162.7 | 3164.0 | 3164.0 |
| 5°    | 3209.1 | 3199.8 | 3203.8 | 3203.8 | 3194.5  | 3191.8  | 3193.2  | 3199.8 | 3207.8 | 3207.8 | 3207.8 |
| 7.5°  | 3278.0 | 3268.8 | 3278.0 | 3272.7 | 3264.8  | 3262.1  | 3260.8  | 3266.1 | 3278.0 | 3278.0 | 3274.1 |
| 10°   | 3361.6 | 3351.0 | 3356.3 | 3353.6 | 3344.3  | 3340.4  | 3339.0  | 3347.0 | 3357.6 | 3356.3 | 3353.6 |
| 12.5° | 3453.1 | 3441.1 | 3447.8 | 3439.8 | 3437.2  | 3433.2  | 3433.2  | 3431.9 | 3438.5 | 3433.2 | 3435.8 |
| 15°   | 3555.2 | 3547.2 | 3549.9 | 3544.6 | 3548.6  | 3545.9  | 3535.3  | 3530.0 | 3532.6 | 3524.7 | 3526.0 |
| 17.5° | 3675.9 | 3657.3 | 3666.6 | 3663.9 | 3663.9  | 3669.2  | 3652.0  | 3645.4 | 3650.7 | 3642.7 | 3649.3 |
| 20°   | 3815.1 | 3796.5 | 3800.5 | 3795.2 | 3788.6  | 3793.9  | 3772.7  | 3778.0 | 3781.9 | 3776.6 | 3788.6 |
| 22.5° | 3967.6 | 3943.7 | 3942.4 | 3945.1 | 3930.5  | 3931.8  | 3917.2  | 3930.5 | 3938.4 | 3923.8 | 3938.4 |
| 25°   | 4124.1 | 4098.9 | 4116.1 | 4109.5 | 4090.9  | 4094.9  | 4084.3  | 4097.6 | 4104.2 | 4085.6 | 4106.8 |
| 27.5° | 4289.8 | 4272.6 | 4288.5 | 4292.5 | 4269.9  | 4285.9  | 4269.9  | 4281.9 | 4288.5 | 4260.7 | 4281.9 |
| 30°   | 4483.4 | 4466.2 | 4480.8 | 4491.4 | 4464.9  | 4490.1  | 4476.8  | 4484.8 | 4486.1 | 4452.9 | 4472.8 |
| 32.5° | 4694.3 | 4667.8 | 4704.9 | 4710.2 | 4681.0  | 4711.5  | 4694.3  | 4704.9 | 4711.5 | 4666.4 | 4696.9 |
| 35°   | 4951.5 | 4918.4 | 4960.8 | 4954.2 | 4929.0  | 4954.2  | 4938.3  | 4954.2 | 4970.1 | 4915.7 | 4948.9 |
| 37.5° | 5228.7 | 5194.2 | 5239.3 | 5227.4 | 5203.5  | 5220.7  | 5211.4  | 5222.1 | 5247.3 | 5188.9 | 5224.7 |
| 40°   | 5533.7 | 5491.2 | 5552.2 | 5531.0 | 5508.5  | 5505.8  | 5511.1  | 5517.8 | 5550.9 | 5485.9 | 5507.2 |
| 42.5° | 5859.9 | 5814.8 | 5906.3 | 5873.2 | 5841.3  | 5820.1  | 5837.4  | 5850.6 | 5882.4 | 5809.5 | 5848.0 |
| 45°   | 6232.5 | 6180.8 | 6300.2 | 6260.4 | 6210.0  | 6166.2  | 6194.1  | 6214.0 | 6260.4 | 6172.8 | 6217.9 |
| 47.5° | 6643.6 | 6585.3 | 6712.6 | 6700.6 | 6618.4  | 6522.9  | 6586.6  | 6643.6 | 6678.1 | 6572.0 | 6607.8 |
| 50°   | 7045.4 | 7000.3 | 7167.4 | 7182.0 | 7081.2  | 6947.3  | 7036.1  | 7122.3 | 7131.6 | 6992.4 | 7009.6 |
| 52.5° | 7422.0 | 7376.9 | 7619.6 | 7711.1 | 7620.9  | 7461.8  | 7555.9  | 7643.5 | 7573.2 | 7392.8 | 7398.1 |
| 55°   | 7723.0 | 7685.9 | 7994.9 | 8230.9 | 8261.4  | 8130.1  | 8185.8  | 8183.2 | 7952.4 | 7675.3 | 7684.6 |
| 57.5° | 7796.0 | 7790.7 | 8180.5 | 8680.4 | 8998.7  | 9014.6  | 8904.5  | 8623.4 | 8126.1 | 7753.5 | 7729.7 |
| 60°   | 7464.4 | 7497.6 | 8033.3 | 8915.2 | 9763.8  | 10116.6 | 9640.5  | 8838.2 | 7928.6 | 7411.4 | 7350.4 |
| 62.5° | 6472.5 | 6560.1 | 7205.9 | 8628.7 | 10381.8 | 11384.3 | 10230.6 | 8512.0 | 7117.0 | 6442.0 | 6402.3 |
| 65°   | 4638.6 | 4791.1 | 5504.5 | 7363.7 | 10326.1 | 12498.2 | 10145.7 | 7304.0 | 5557.6 | 4779.2 | 4722.1 |
| 67.5° | 2104.5 | 2259.6 | 2865.6 | 5041.7 | 8976.2  | 12195.9 | 8954.9  | 5094.8 | 3008.8 | 2267.6 | 2234.4 |
| 70°   | 762.5  | 789.0  | 983.9  | 2018.3 | 5736.6  | 9717.4  | 5981.9  | 2032.9 | 1046.3 | 840.7  | 830.1  |
| 72.5° | 461.5  | 465.5  | 506.6  | 722.7  | 1993.1  | 5899.7  | 2077.9  | 746.6  | 517.2  | 458.8  | 466.8  |
| 75°   | 293.1  | 290.4  | 360.7  | 441.6  | 706.8   | 1990.4  | 741.3   | 441.6  | 359.4  | 327.5  | 330.2  |
| 77.5° | 210.8  | 217.5  | 258.6  | 330.2  | 445.6   | 675.0   | 437.6   | 315.6  | 258.6  | 212.2  | 216.1  |
| 80°   | 157.8  | 161.8  | 188.3  | 257.3  | 313.0   | 420.4   | 278.5   | 233.4  | 194.9  | 132.6  | 136.6  |
| 82.5° | 114.0  | 114.0  | 123.3  | 187.0  | 191.0   | 226.8   | 151.2   | 164.4  | 128.6  | 94.2   | 94.2   |
| 85°   | 67.6   | 66.3   | 76.9   | 111.4  | 99.5    | 83.5    | 69.0    | 100.8  | 80.9   | 58.3   | 57.0   |
| 87.5° | 23.9   | 25.2   | 23.9   | 31.8   | 26.5    | 22.5    | 21.2    | 27.8   | 22.5   | 19.9   | 18.6   |
| 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)