

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: P948779

Luminaire Tested: **GALN-SB3D-727-U-5NQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P948779  
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-727-U-5NQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 2700K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V NARROW OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 29676 lumens  
Efficiency: N/A  
Efficacy: 136.1 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - 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

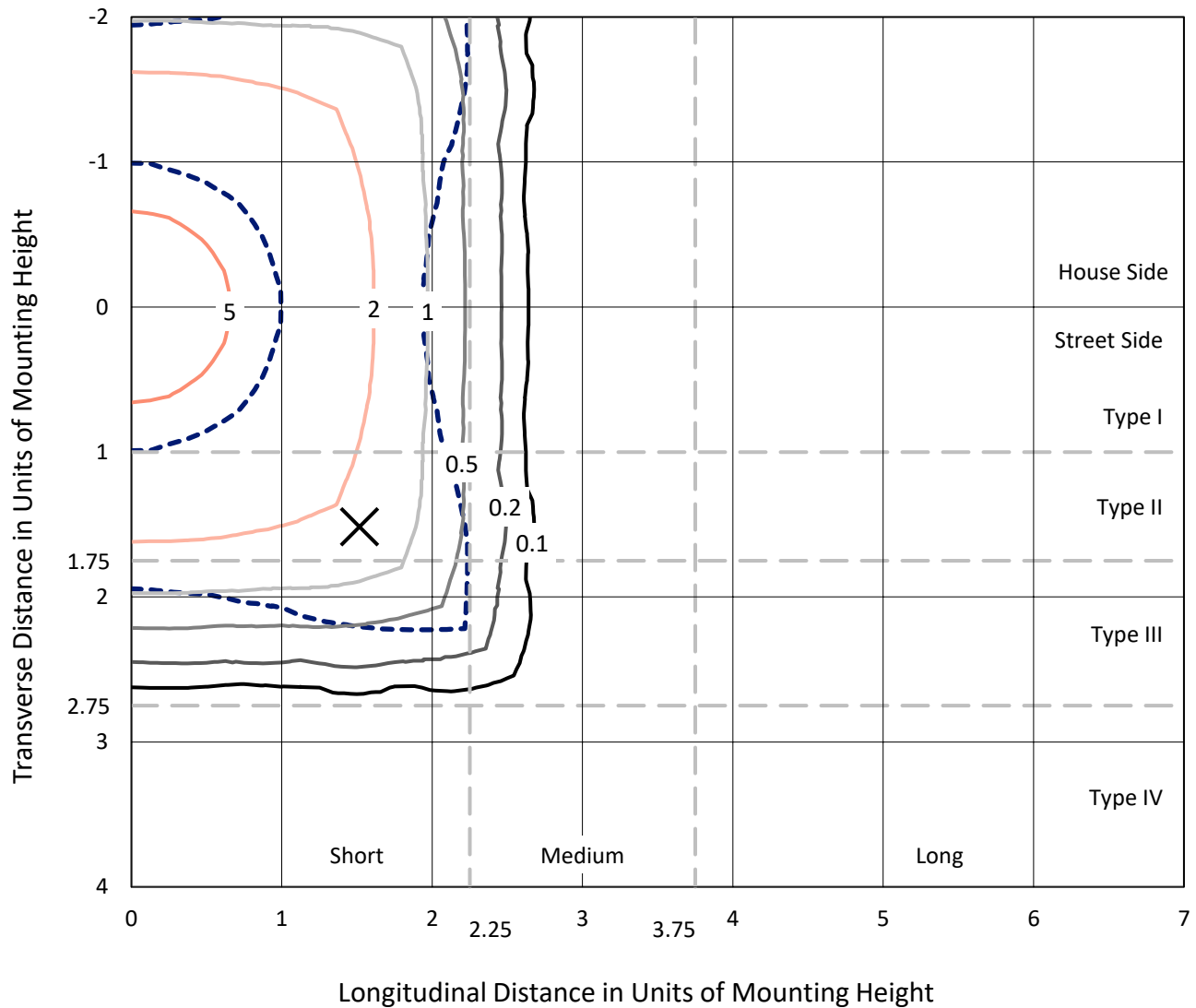


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## Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
--- 1/2 Max cd

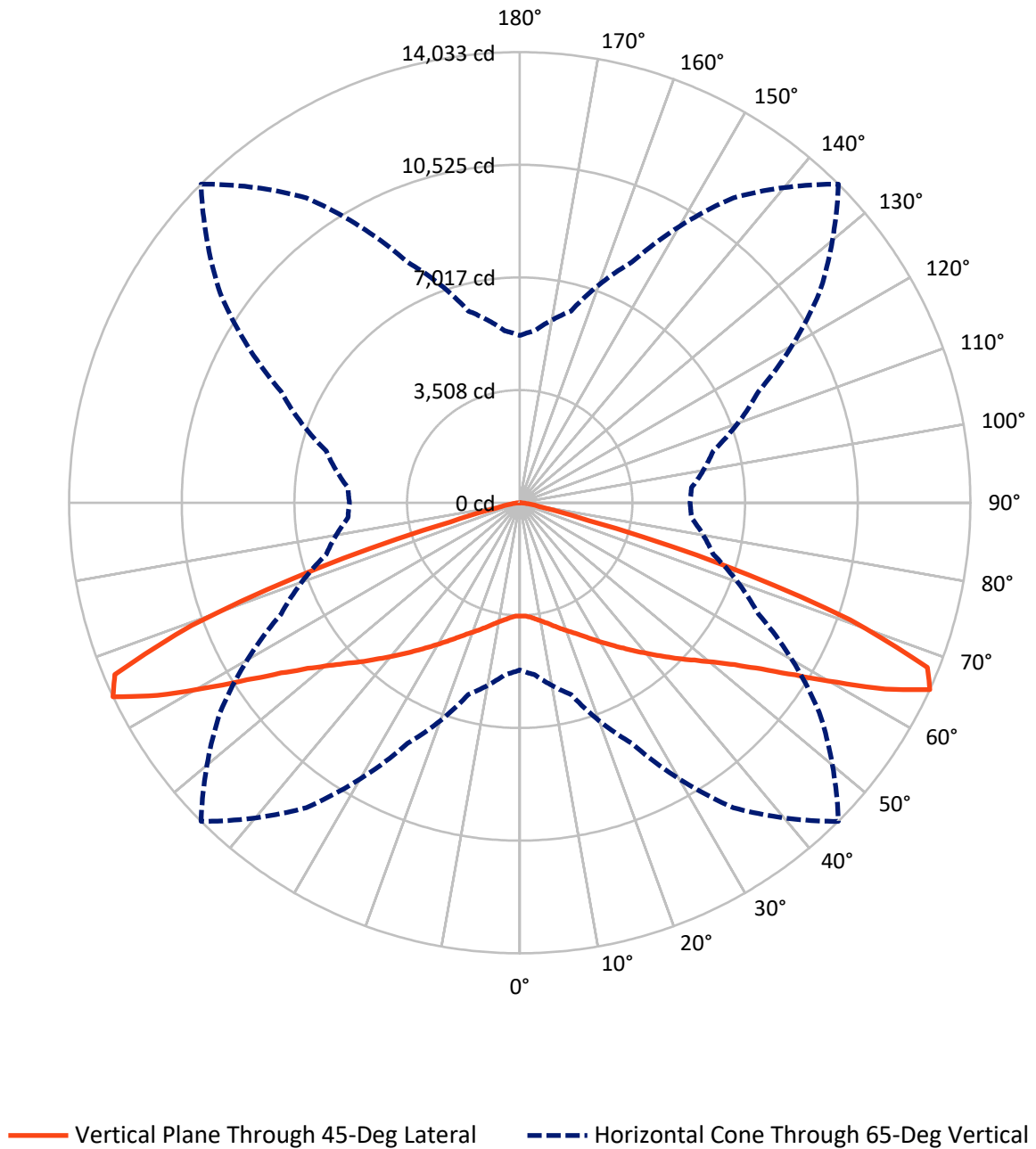


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc  
Type V - Short - N/A

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## Luminous Intensity Polar Plot



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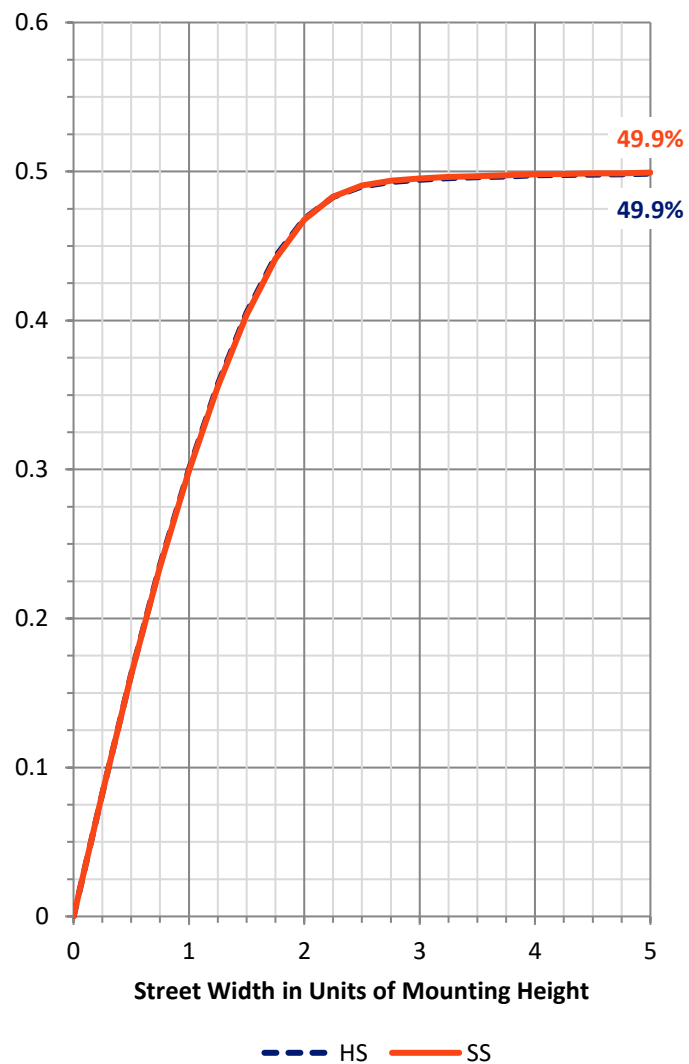
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 14838.0  | 0.0    | 14838.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 14838.0  | 0.0    | 14838.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 29676.0  | 0.0    | 29676.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 348.5   | 1.2       |
| 10°-20°   | 1137.3  | 3.8       |
| 20°-30°   | 2147.4  | 7.2       |
| 30°-40°   | 3516.3  | 11.8      |
| 40°-50°   | 5452.1  | 18.4      |
| 50°-60°   | 8053.9  | 27.1      |
| 60°-70°   | 7666.6  | 25.8      |
| 70°-80°   | 1237.1  | 4.2       |
| 80°-90°   | 116.6   | 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°    | 29676.0 | 100.0     |
| 0°-180°   | 29676.0 | 100.0     |

**Coefficient of Utilization**



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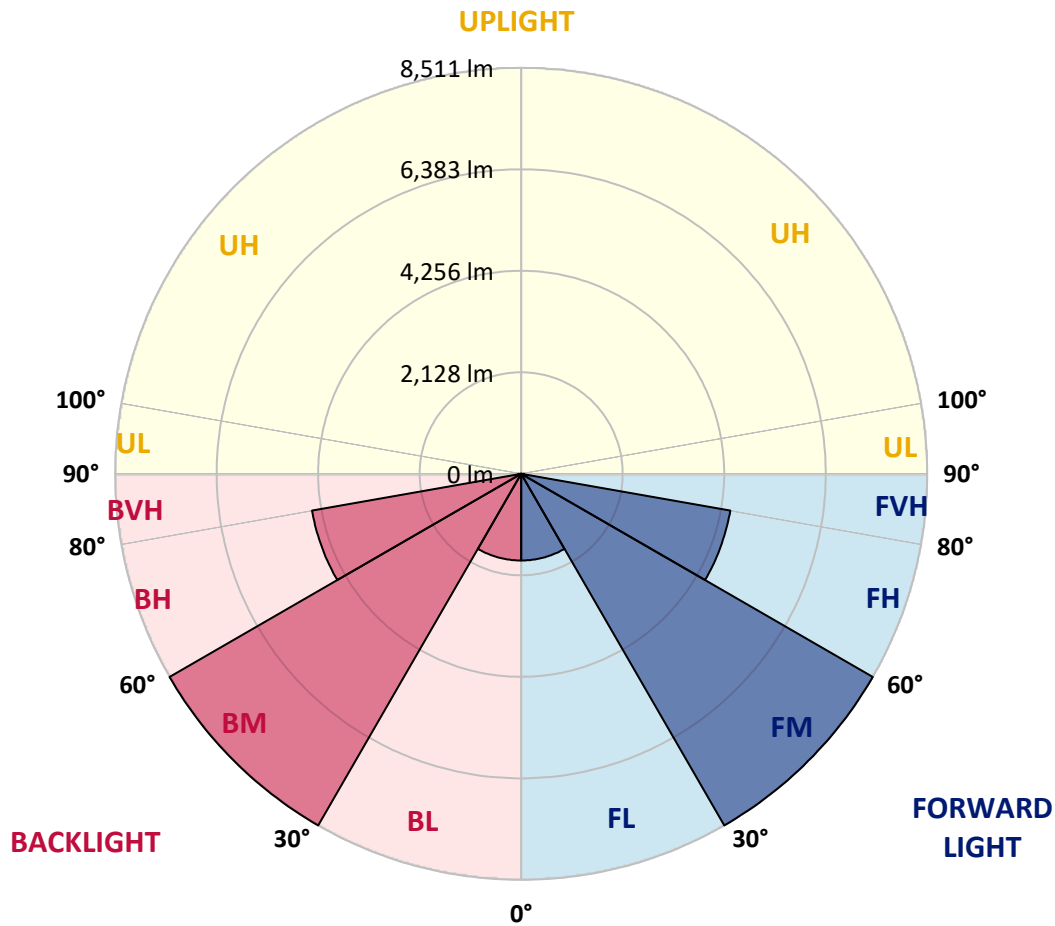
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1816.7 | 6.1       |                         |      |         |
| FM   | (30°-60°)   | 8511.2 | 28.7      |                         |      |         |
| FH   | (60°-80°)   | 4451.8 | 15.0      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 58.3   | 0.2       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1816.7 | 6.1       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 8511.2 | 28.7      | B5                      |      |         |
| BH   | (60°-80°)   | 4451.8 | 15.0      | B4/5000                 |      | G2/5000 |
| BVH  | (80°-90°)   | 58.3   | 0.2       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B5-U0-G2**

Type V Short



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0°    | 3531.7 | 3531.7 | 3531.7 | 3531.7  | 3531.7  | 3531.7  | 3531.7  | 3531.7 | 3531.7 | 3531.7 | 3531.7 |
| 2.5°  | 3555.6 | 3543.7 | 3552.6 | 3545.1  | 3539.2  | 3533.2  | 3536.2  | 3546.6 | 3551.1 | 3552.6 | 3552.6 |
| 5°    | 3603.2 | 3592.8 | 3597.3 | 3597.3  | 3586.8  | 3583.9  | 3585.3  | 3592.8 | 3601.7 | 3601.7 | 3601.7 |
| 7.5°  | 3680.6 | 3670.2 | 3680.6 | 3674.7  | 3665.7  | 3662.8  | 3661.3  | 3667.2 | 3680.6 | 3680.6 | 3676.2 |
| 10°   | 3774.4 | 3762.5 | 3768.5 | 3765.5  | 3755.1  | 3750.6  | 3749.1  | 3758.1 | 3770.0 | 3768.5 | 3765.5 |
| 12.5° | 3877.2 | 3863.8 | 3871.2 | 3862.3  | 3859.3  | 3854.8  | 3854.8  | 3853.3 | 3860.8 | 3854.8 | 3857.8 |
| 15°   | 3991.8 | 3982.9 | 3985.9 | 3979.9  | 3984.4  | 3981.4  | 3969.5  | 3963.5 | 3966.5 | 3957.6 | 3959.1 |
| 17.5° | 4127.3 | 4106.5 | 4116.9 | 4113.9  | 4113.9  | 4119.9  | 4100.5  | 4093.1 | 4099.0 | 4090.1 | 4097.5 |
| 20°   | 4283.7 | 4262.8 | 4267.3 | 4261.3  | 4253.9  | 4259.8  | 4236.0  | 4242.0 | 4246.4 | 4240.5 | 4253.9 |
| 22.5° | 4454.9 | 4428.1 | 4426.6 | 4429.6  | 4413.2  | 4414.7  | 4398.3  | 4413.2 | 4422.1 | 4405.7 | 4422.1 |
| 25°   | 4630.6 | 4602.3 | 4621.6 | 4614.2  | 4593.3  | 4597.8  | 4585.9  | 4600.8 | 4608.2 | 4587.4 | 4611.2 |
| 27.5° | 4816.7 | 4797.3 | 4815.2 | 4819.7  | 4794.4  | 4812.2  | 4794.4  | 4807.8 | 4815.2 | 4783.9 | 4807.8 |
| 30°   | 5034.1 | 5014.7 | 5031.1 | 5043.0  | 5013.2  | 5041.5  | 5026.6  | 5035.6 | 5037.0 | 4999.8 | 5022.2 |
| 32.5° | 5270.8 | 5241.0 | 5282.7 | 5288.7  | 5255.9  | 5290.2  | 5270.8  | 5282.7 | 5290.2 | 5239.5 | 5273.8 |
| 35°   | 5559.7 | 5522.4 | 5570.1 | 5562.6  | 5534.4  | 5562.6  | 5544.8  | 5562.6 | 5580.5 | 5519.5 | 5556.7 |
| 37.5° | 5870.8 | 5832.1 | 5882.8 | 5869.4  | 5842.6  | 5861.9  | 5851.5  | 5863.4 | 5891.7 | 5826.2 | 5866.4 |
| 40°   | 6213.3 | 6165.7 | 6234.1 | 6210.3  | 6185.0  | 6182.0  | 6188.0  | 6195.4 | 6232.7 | 6159.7 | 6183.5 |
| 42.5° | 6579.6 | 6529.0 | 6631.7 | 6594.5  | 6558.7  | 6534.9  | 6554.3  | 6569.2 | 6604.9 | 6523.0 | 6566.2 |
| 45°   | 6998.0 | 6939.9 | 7073.9 | 7029.2  | 6972.7  | 6923.5  | 6954.8  | 6977.1 | 7029.2 | 6931.0 | 6981.6 |
| 47.5° | 7459.5 | 7394.0 | 7537.0 | 7523.6  | 7431.2  | 7324.0  | 7395.5  | 7459.5 | 7498.2 | 7379.1 | 7419.3 |
| 50°   | 7910.7 | 7860.1 | 8047.7 | 8064.0  | 7950.9  | 7800.5  | 7900.3  | 7997.0 | 8007.5 | 7851.1 | 7870.5 |
| 52.5° | 8333.5 | 8282.9 | 8555.4 | 8658.1  | 8556.9  | 8378.2  | 8483.9  | 8582.2 | 8503.3 | 8300.8 | 8306.7 |
| 55°   | 8671.5 | 8629.8 | 8976.8 | 9241.8  | 9276.0  | 9128.6  | 9191.2  | 9188.2 | 8929.1 | 8617.9 | 8628.3 |
| 57.5° | 8753.4 | 8747.5 | 9185.2 | 9746.5  | 10103.9 | 10121.7 | 9998.2  | 9682.5 | 9124.2 | 8705.8 | 8679.0 |
| 60°   | 8381.2 | 8418.4 | 9019.9 | 10010.1 | 10963.0 | 11359.0 | 10824.5 | 9923.7 | 8902.3 | 8321.6 | 8253.1 |
| 62.5° | 7267.5 | 7365.7 | 8090.8 | 9688.5  | 11656.8 | 12782.5 | 11487.1 | 9557.4 | 7991.1 | 7233.2 | 7188.6 |
| 65°   | 5208.3 | 5379.5 | 6180.5 | 8268.0  | 11594.3 | 14033.2 | 11391.8 | 8201.0 | 6240.1 | 5366.1 | 5302.1 |
| 67.5° | 2362.9 | 2537.1 | 3217.6 | 5660.9  | 10078.6 | 13693.7 | 10054.7 | 5720.5 | 3378.4 | 2546.1 | 2508.8 |
| 70°   | 856.1  | 885.9  | 1104.8 | 2266.2  | 6441.1  | 10910.9 | 6716.6  | 2282.5 | 1174.8 | 944.0  | 932.1  |
| 72.5° | 518.1  | 522.6  | 568.8  | 811.5   | 2237.9  | 6624.2  | 2333.2  | 838.3  | 580.7  | 515.2  | 524.1  |
| 75°   | 329.1  | 326.1  | 405.0  | 495.8   | 793.6   | 2234.9  | 832.3   | 495.8  | 403.5  | 367.8  | 370.7  |
| 77.5° | 236.7  | 244.2  | 290.3  | 370.7   | 500.3   | 757.9   | 491.3   | 354.4  | 290.3  | 238.2  | 242.7  |
| 80°   | 177.2  | 181.6  | 211.4  | 288.9   | 351.4   | 472.0   | 312.7   | 262.1  | 218.9  | 148.9  | 153.4  |
| 82.5° | 128.0  | 128.0  | 138.5  | 209.9   | 214.4   | 254.6   | 169.7   | 184.6  | 144.4  | 105.7  | 105.7  |
| 85°   | 75.9   | 74.4   | 86.4   | 125.1   | 111.7   | 93.8    | 77.4    | 113.2  | 90.8   | 65.5   | 64.0   |
| 87.5° | 26.8   | 28.3   | 26.8   | 35.7    | 29.8    | 25.3    | 23.8    | 31.3   | 25.3   | 22.3   | 20.8   |
| 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)