

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: P948799

Luminaire Tested: **GALN-SB3D-730-U-5MQ**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P948799  
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-SB3D-730-U-5MQ  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(3) 70 CRI, 3000K, 900mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE V MEDIUM OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 31975 lumens  
Efficiency: N/A  
Efficacy: 146.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type V - Short  
BUG Rating: B5 - U0 - G4  
  
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



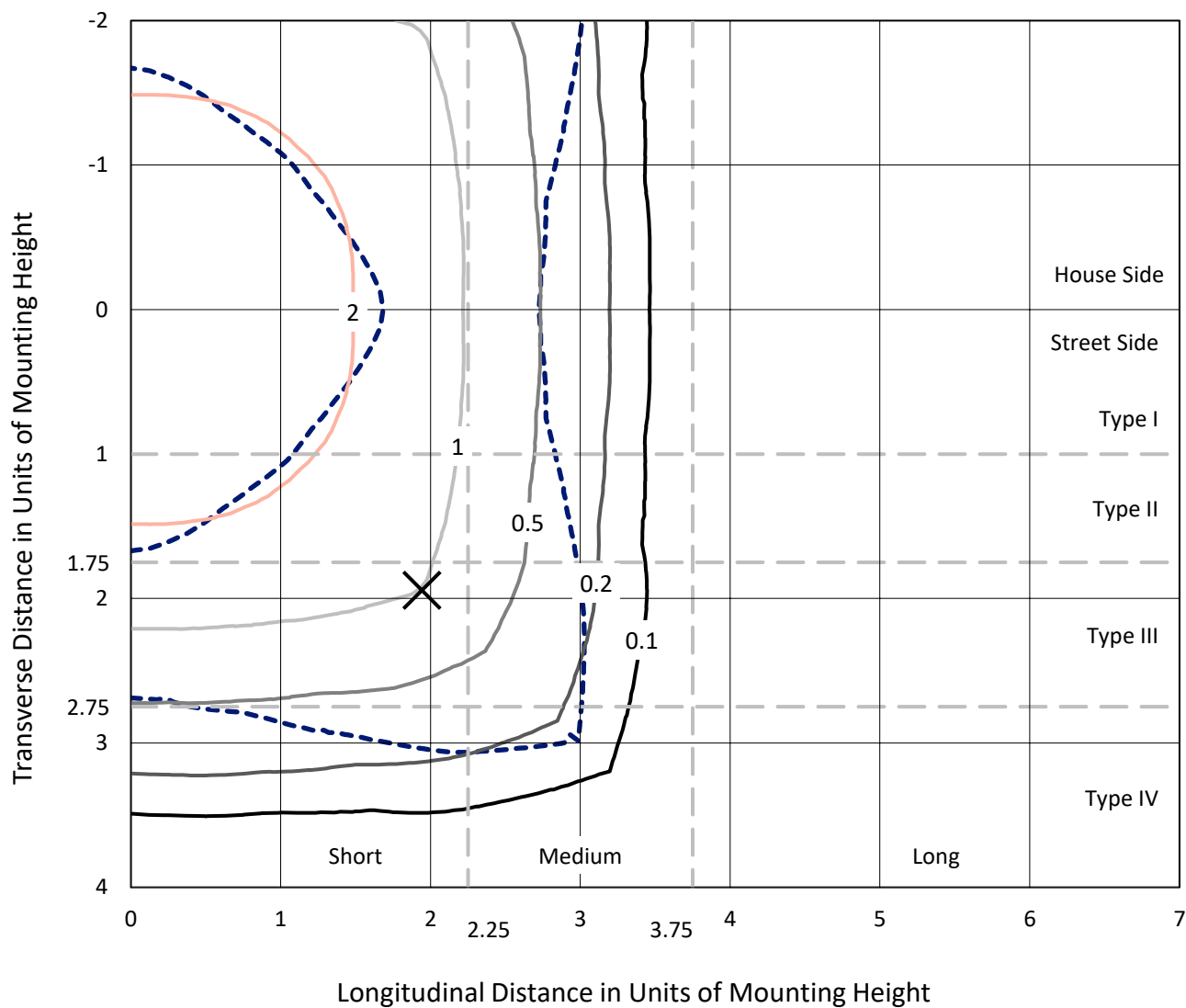
REPORT NUMBER: P948799

CATALOG NUMBER: GALN-SB3D-730-U-5MQ

## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

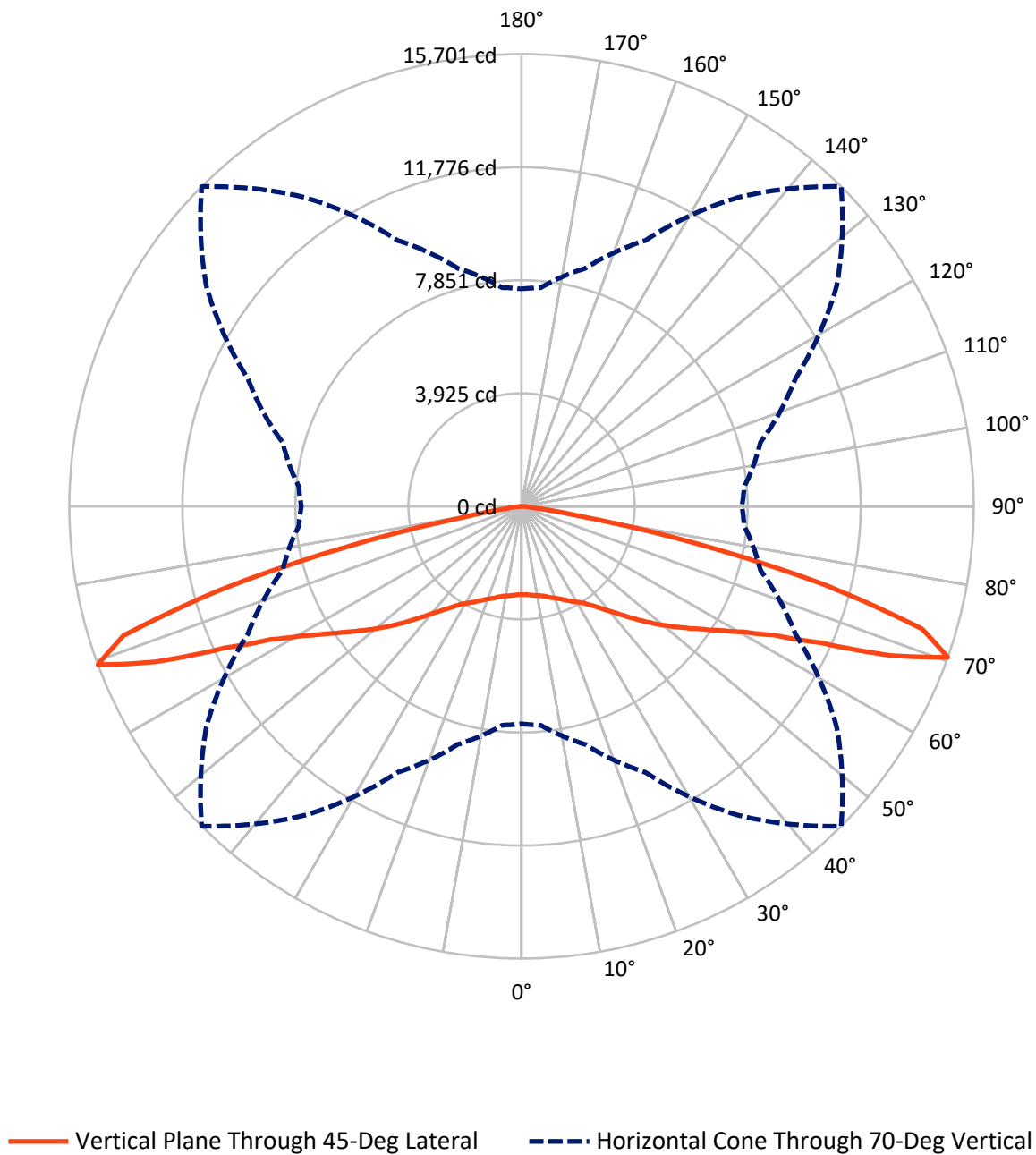


Based on 25 foot mounting height. Maximum calculated value = 4.9 fc  
 Type V - Short - N/A

REPORT NUMBER: P948799

CATALOG NUMBER: GALN-SB3D-730-U-5MQ

## Luminous Intensity Polar Plot



REPORT NUMBER: P948799

CATALOG NUMBER: GALN-SB3D-730-U-5MQ

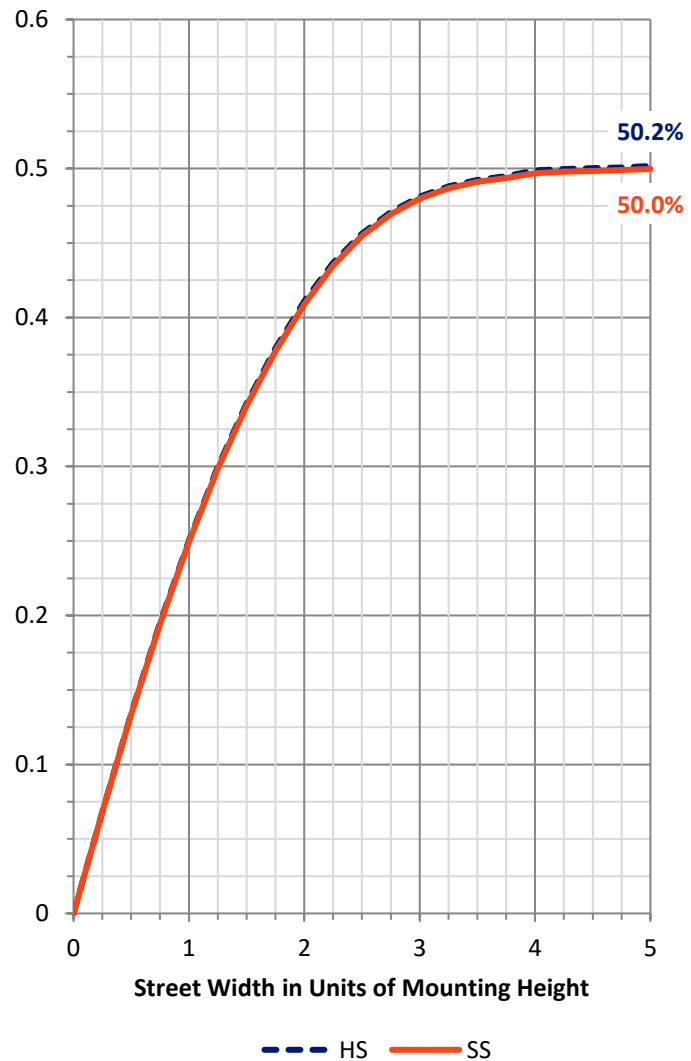
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 15987.5  | 0.0    | 15987.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 15987.5  | 0.0    | 15987.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 31975.0  | 0.0    | 31975.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 297.6   | 0.9       |
| 10°-20°   | 922.7   | 2.9       |
| 20°-30°   | 1649.0  | 5.2       |
| 30°-40°   | 2673.0  | 8.4       |
| 40°-50°   | 4353.8  | 13.6      |
| 50°-60°   | 6638.1  | 20.8      |
| 60°-70°   | 9875.3  | 30.9      |
| 70°-80°   | 5382.4  | 16.8      |
| 80°-90°   | 183.3   | 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°    | 31975.0 | 100.0     |
| 0°-180°   | 31975.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P948799

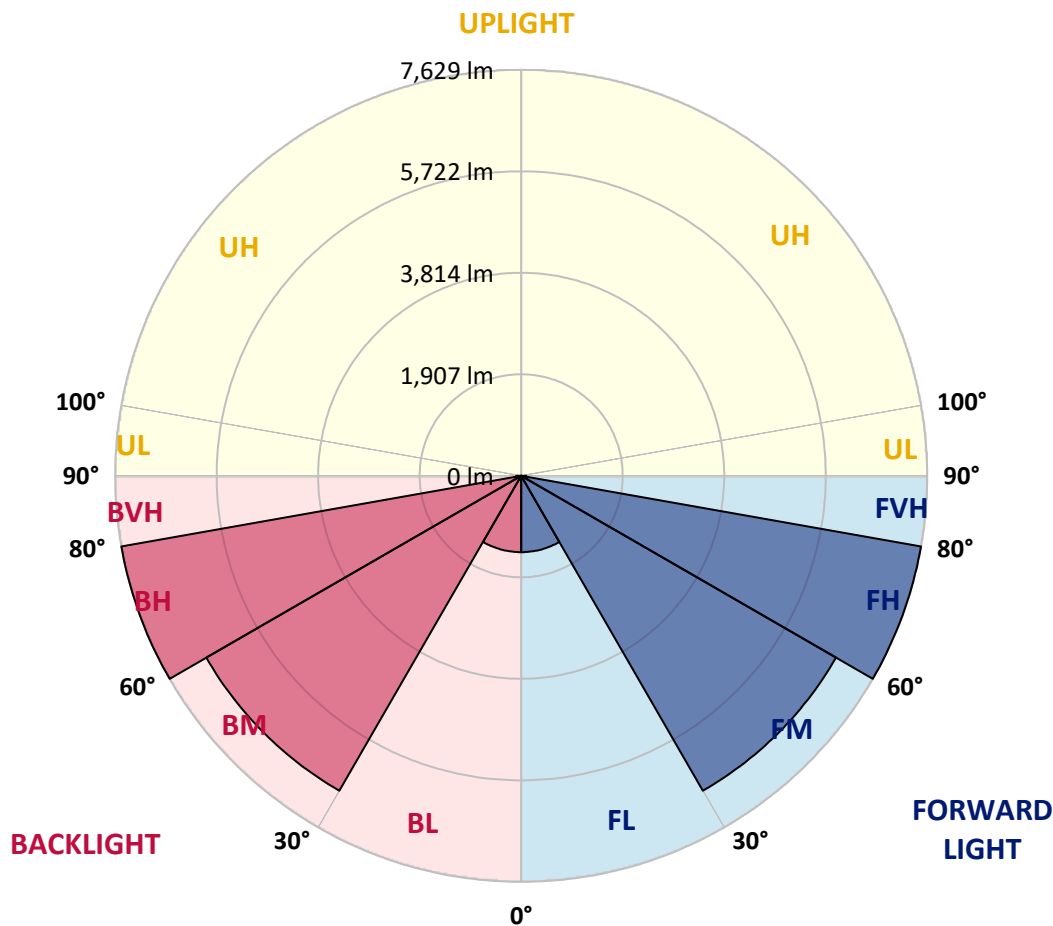
CATALOG NUMBER: GALN-SB3D-730-U-5MQ

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |          |
|------|-------------|--------|-----------|-------------------------|------|----------|
|      |             |        |           | B                       | U    | G        |
| FL   | (0°-30°)    | 1434.6 | 4.5       |                         |      |          |
| FM   | (30°-60°)   | 6832.4 | 21.4      |                         |      |          |
| FH   | (60°-80°)   | 7628.8 | 23.9      |                         |      | G4/12000 |
| FVH  | (80°-90°)   | 91.6   | 0.3       |                         |      | G1/100   |
| BL   | (0°-30°)    | 1434.6 | 4.5       | B3/2500                 |      |          |
| BM   | (30°-60°)   | 6832.4 | 21.4      | B4/8500                 |      |          |
| BH   | (60°-80°)   | 7628.8 | 23.9      | B5                      |      | G4/12000 |
| BVH  | (80°-90°)   | 91.6   | 0.3       |                         |      | G1/100   |
| 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



REPORT NUMBER: P948799

CATALOG NUMBER: GALN-SB3D-730-U-5MQ

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°     | 35°     | 45°     | 55°     | 65°     | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0°    | 3062.9 | 3062.9 | 3062.9 | 3062.9  | 3062.9  | 3062.9  | 3062.9  | 3062.9  | 3062.9 | 3062.9 | 3062.9 |
| 2.5°  | 3077.3 | 3080.5 | 3074.1 | 3070.9  | 3067.7  | 3062.9  | 3064.5  | 3072.5  | 3078.9 | 3077.3 | 3078.9 |
| 5°    | 3103.0 | 3106.2 | 3101.4 | 3099.8  | 3093.4  | 3091.8  | 3091.8  | 3099.8  | 3104.6 | 3101.4 | 3103.0 |
| 7.5°  | 3131.9 | 3136.7 | 3128.7 | 3127.1  | 3123.9  | 3120.7  | 3119.1  | 3127.1  | 3131.9 | 3131.9 | 3131.9 |
| 10°   | 3159.2 | 3164.0 | 3157.6 | 3152.8  | 3149.6  | 3149.6  | 3146.3  | 3152.8  | 3160.8 | 3159.2 | 3159.2 |
| 12.5° | 3188.1 | 3191.3 | 3184.9 | 3181.7  | 3181.7  | 3186.5  | 3181.7  | 3184.9  | 3191.3 | 3188.1 | 3186.5 |
| 15°   | 3223.4 | 3225.0 | 3223.4 | 3228.2  | 3236.2  | 3252.3  | 3237.8  | 3234.6  | 3237.8 | 3229.8 | 3229.8 |
| 17.5° | 3271.6 | 3274.8 | 3281.2 | 3292.4  | 3303.7  | 3332.6  | 3306.9  | 3298.9  | 3298.9 | 3282.8 | 3282.8 |
| 20°   | 3331.0 | 3335.8 | 3345.4 | 3364.7  | 3379.1  | 3406.4  | 3380.7  | 3369.5  | 3364.7 | 3343.8 | 3343.8 |
| 22.5° | 3393.6 | 3401.6 | 3416.0 | 3441.7  | 3467.4  | 3493.1  | 3467.4  | 3448.1  | 3433.7 | 3406.4 | 3404.8 |
| 25°   | 3465.8 | 3475.4 | 3497.9 | 3539.6  | 3575.0  | 3611.9  | 3581.4  | 3542.9  | 3514.0 | 3475.4 | 3473.8 |
| 27.5° | 3568.5 | 3579.8 | 3607.1 | 3658.4  | 3703.4  | 3735.5  | 3706.6  | 3656.8  | 3616.7 | 3570.1 | 3568.5 |
| 30°   | 3713.0 | 3724.2 | 3756.4 | 3810.9  | 3841.4  | 3862.3  | 3843.0  | 3804.5  | 3756.4 | 3703.4 | 3703.4 |
| 32.5° | 3899.2 | 3913.7 | 3949.0 | 4000.4  | 4006.8  | 4010.0  | 4003.6  | 3984.3  | 3949.0 | 3884.8 | 3886.4 |
| 35°   | 4135.2 | 4151.3 | 4191.4 | 4233.1  | 4226.7  | 4233.1  | 4223.5  | 4217.1  | 4191.4 | 4117.5 | 4117.5 |
| 37.5° | 4424.2 | 4443.4 | 4485.2 | 4517.3  | 4501.2  | 4493.2  | 4494.8  | 4496.4  | 4481.9 | 4400.1 | 4400.1 |
| 40°   | 4759.7 | 4785.3 | 4815.8 | 4849.6  | 4822.3  | 4798.2  | 4814.2  | 4827.1  | 4814.2 | 4730.8 | 4730.8 |
| 42.5° | 5104.8 | 5141.7 | 5173.8 | 5222.0  | 5199.5  | 5169.0  | 5191.5  | 5205.9  | 5178.6 | 5088.7 | 5095.2 |
| 45°   | 5488.5 | 5523.8 | 5565.5 | 5637.7  | 5621.7  | 5589.6  | 5621.7  | 5624.9  | 5578.3 | 5472.4 | 5483.6 |
| 47.5° | 5885.0 | 5921.9 | 5984.5 | 6080.8  | 6074.4  | 6039.1  | 6080.8  | 6058.3  | 5998.9 | 5872.1 | 5864.1 |
| 50°   | 6260.6 | 6312.0 | 6408.3 | 6543.1  | 6556.0  | 6512.6  | 6568.8  | 6525.5  | 6425.9 | 6267.0 | 6263.8 |
| 52.5° | 6613.8 | 6668.3 | 6820.8 | 7003.8  | 7050.4  | 6994.2  | 7069.7  | 6994.2  | 6844.9 | 6641.0 | 6621.8 |
| 55°   | 6984.6 | 7045.6 | 7227.0 | 7466.2  | 7559.3  | 7517.5  | 7588.2  | 7474.2  | 7262.3 | 7015.1 | 6981.4 |
| 57.5° | 7421.2 | 7458.1 | 7674.8 | 7959.0  | 8116.3  | 8125.9  | 8158.0  | 7965.4  | 7708.6 | 7427.6 | 7389.1 |
| 60°   | 7894.8 | 7946.1 | 8182.1 | 8522.4  | 8771.2  | 8851.5  | 8817.8  | 8532.1  | 8233.5 | 7910.8 | 7859.5 |
| 62.5° | 8501.6 | 8557.7 | 8840.3 | 9248.0  | 9641.3  | 9840.4  | 9708.7  | 9294.6  | 8925.4 | 8538.5 | 8471.1 |
| 65°   | 9004.0 | 9066.6 | 9577.1 | 10304.3 | 11020.2 | 11420.0 | 11089.3 | 10326.8 | 9662.2 | 9116.4 | 9026.5 |
| 67.5° | 8639.6 | 8716.7 | 9517.7 | 10853.3 | 12633.6 | 13826.3 | 12694.6 | 11017.0 | 9715.2 | 8975.1 | 8864.4 |
| 70°   | 7551.2 | 7623.5 | 8557.7 | 10190.3 | 13087.8 | 15701.2 | 13360.7 | 10490.5 | 8588.2 | 7759.9 | 7649.2 |
| 72.5° | 5013.3 | 5246.1 | 6191.6 | 8150.0  | 11686.4 | 14529.4 | 11802.0 | 7984.7  | 5743.7 | 5002.1 | 4839.9 |
| 75°   | 1663.1 | 1849.3 | 2494.6 | 4225.1  | 7827.3  | 10866.1 | 7451.7  | 3738.7  | 1976.1 | 1422.3 | 1345.2 |
| 77.5° | 419.0  | 483.2  | 666.2  | 1208.8  | 3122.3  | 6186.7  | 2810.8  | 987.2   | 537.8  | 375.6  | 335.5  |
| 80°   | 203.9  | 224.7  | 321.1  | 402.9   | 781.8   | 1966.5  | 733.6   | 378.8   | 253.6  | 195.8  | 179.8  |
| 82.5° | 112.4  | 114.0  | 181.4  | 227.9   | 290.6   | 508.9   | 301.8   | 221.5   | 146.1  | 118.8  | 118.8  |
| 85°   | 69.0   | 67.4   | 96.3   | 122.0   | 122.0   | 181.4   | 144.5   | 122.0   | 83.5   | 73.8   | 77.1   |
| 87.5° | 27.3   | 27.3   | 35.3   | 38.5    | 33.7    | 46.6    | 36.9    | 40.1    | 32.1   | 30.5   | 32.1   |
| 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)