

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: P949496

Luminaire Tested: **GALN-SB4B-727-U-RW**

Issue Date: 1/21/2025

### Test Information

Test Method: LM-79-08  
Report Number: P949496  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB4B-727-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(4) 70 CRI, 2700K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21555 lumens  
Efficiency: N/A  
Efficacy: 146.6 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 147  
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

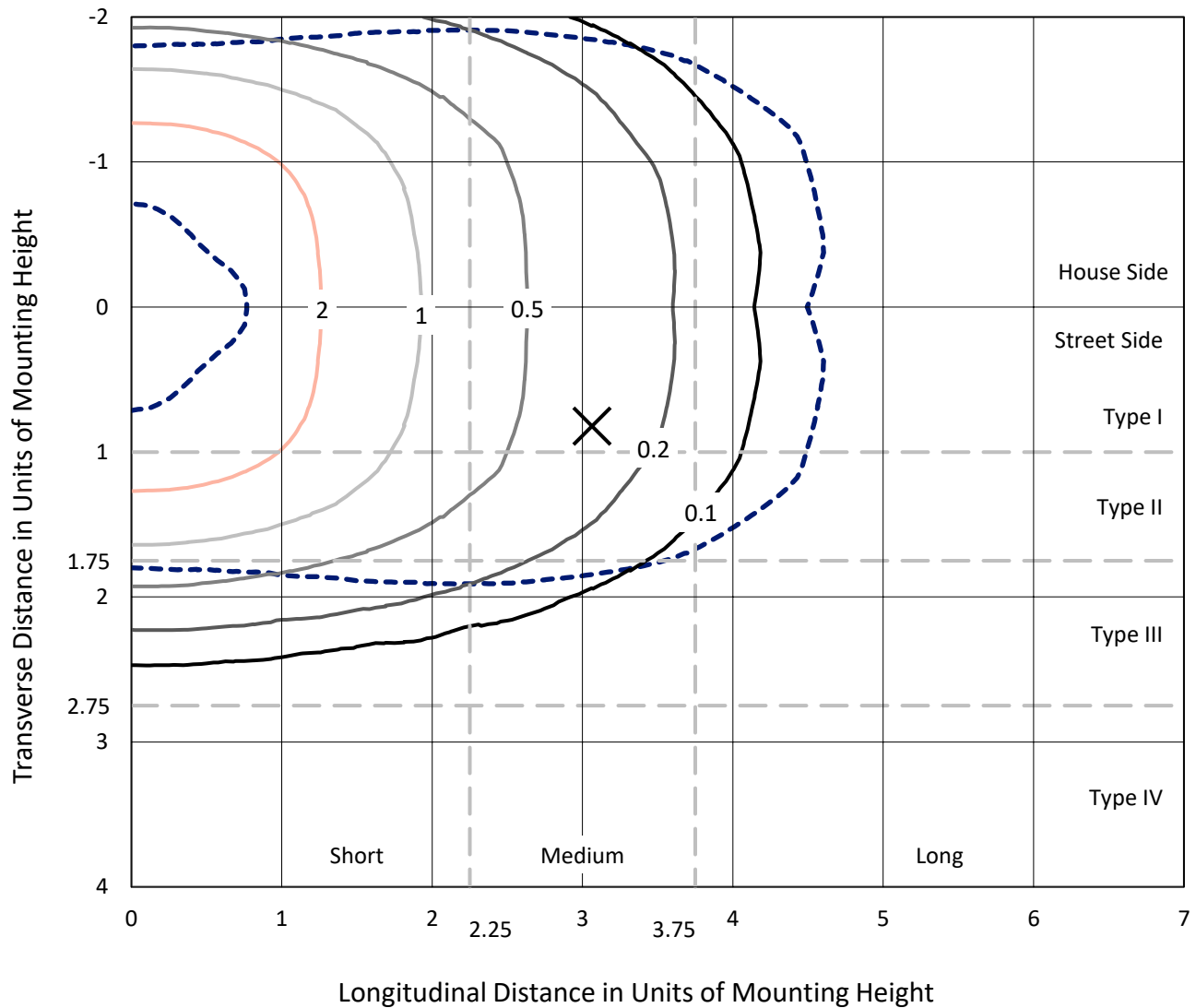


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## Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
- - - 1/2 Max cd

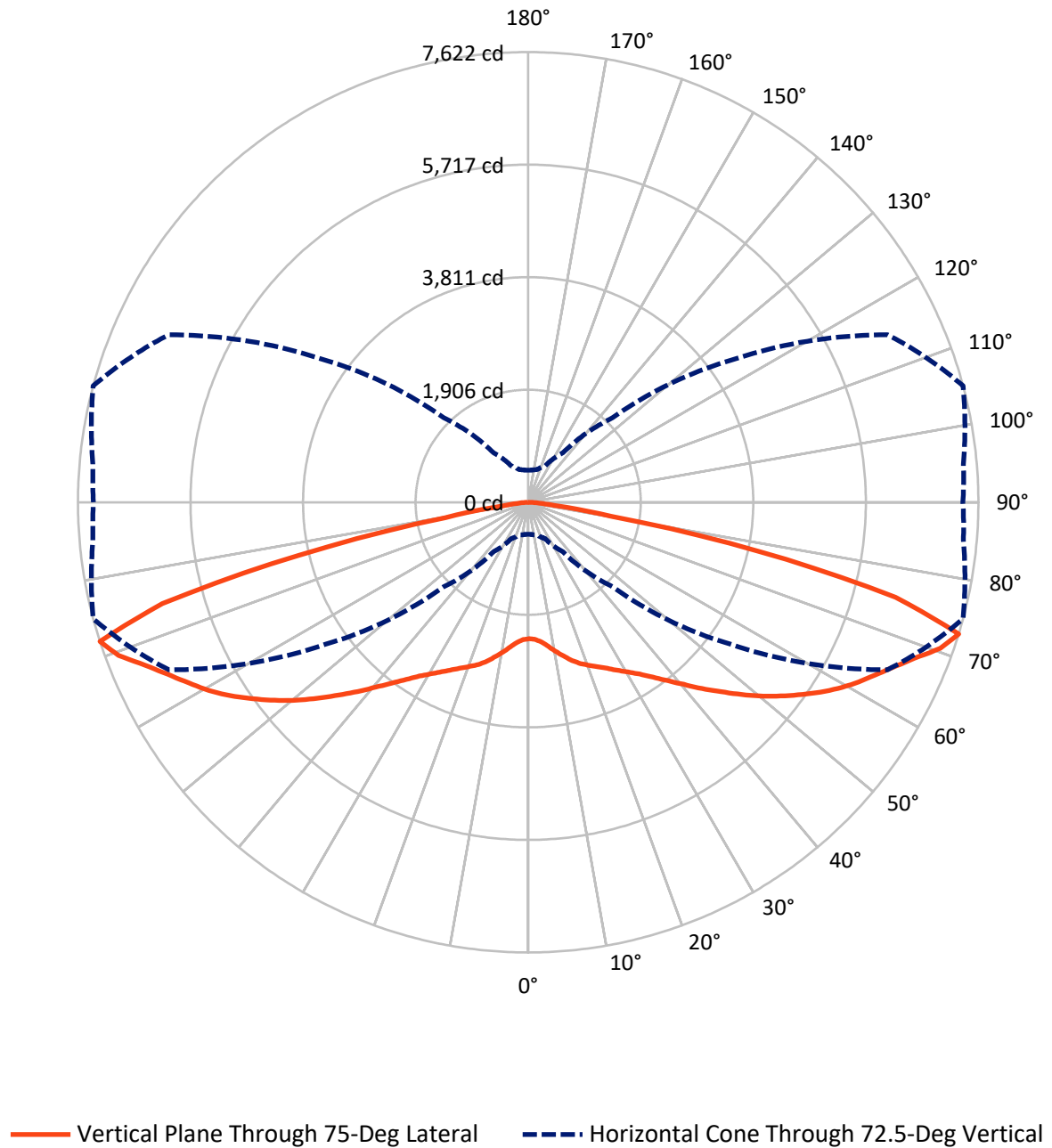


Based on 25 foot mounting height. Maximum calculated value = 4 fc  
Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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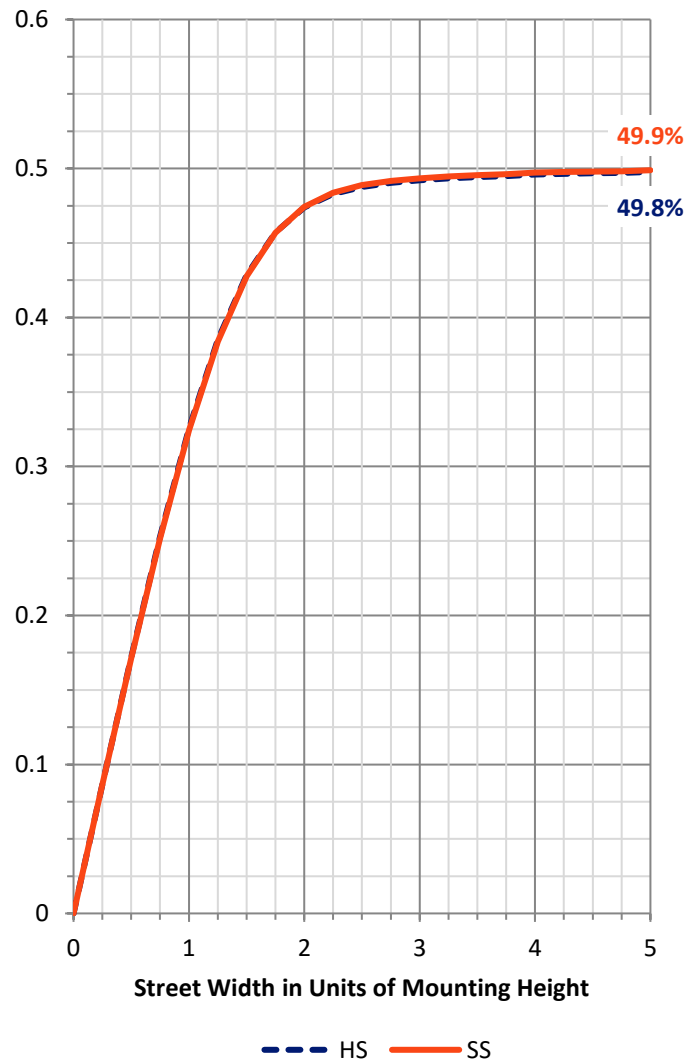
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10777.5  | 0.0    | 10777.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10777.5  | 0.0    | 10777.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21555.0  | 0.0    | 21555.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 226.2   | 1.0       |
| 10°-20°   | 746.0   | 3.5       |
| 20°-30°   | 1441.5  | 6.7       |
| 30°-40°   | 2434.0  | 11.3      |
| 40°-50°   | 3860.0  | 17.9      |
| 50°-60°   | 5168.1  | 24.0      |
| 60°-70°   | 4918.4  | 22.8      |
| 70°-80°   | 2566.5  | 11.9      |
| 80°-90°   | 194.3   | 0.9       |
| 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°    | 21555.0 | 100.0     |
| 0°-180°   | 21555.0 | 100.0     |

**Coefficient of Utilization**



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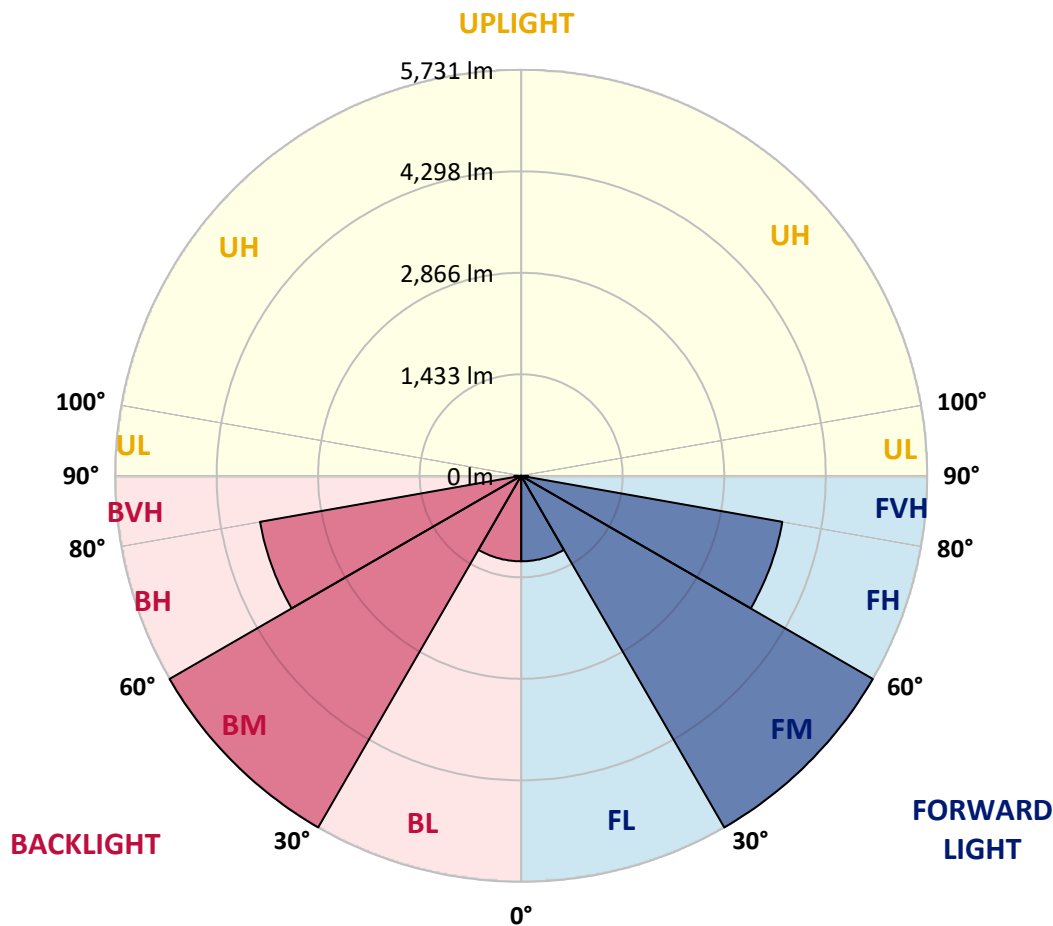
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1206.8 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 5731.1 | 26.6      |                         |      |         |
| FH   | (60°-80°)   | 3742.5 | 17.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 97.1   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1206.8 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5731.1 | 26.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3742.5 | 17.4      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 97.1   | 0.5       |                         |      | G1/100  |
| UL   | (90°-100°)  | 0.0    | 0.0       |                         | U0/0 |         |
| UH   | (100°-180°) | 0.0    | 0.0       |                         | U0/0 |         |

**BUG Rating: B4-U0-G4**

Type III Medium



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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2308.9 | 2308.9 | 2308.9 | 2308.9 | 2308.9 | 2308.9 | 2308.9 | 2308.9 | 2308.9 | 2308.9 | 2308.9 |
| 2.5°  | 2308.9 | 2306.7 | 2308.9 | 2311.1 | 2310.0 | 2310.0 | 2315.5 | 2318.8 | 2325.4 | 2324.3 | 2323.2 |
| 5°    | 2293.5 | 2292.4 | 2301.2 | 2311.1 | 2318.8 | 2332.0 | 2348.5 | 2360.7 | 2376.1 | 2379.4 | 2379.4 |
| 7.5°  | 2285.8 | 2282.5 | 2297.9 | 2315.5 | 2339.7 | 2372.8 | 2404.7 | 2437.7 | 2464.1 | 2472.9 | 2475.1 |
| 10°   | 2291.3 | 2292.4 | 2313.3 | 2346.3 | 2384.9 | 2431.1 | 2476.2 | 2532.3 | 2569.8 | 2578.6 | 2587.4 |
| 12.5° | 2316.6 | 2314.4 | 2349.6 | 2402.5 | 2455.3 | 2513.6 | 2566.5 | 2628.1 | 2668.8 | 2689.7 | 2698.5 |
| 15°   | 2362.9 | 2358.5 | 2408.0 | 2486.1 | 2563.2 | 2631.4 | 2674.3 | 2732.6 | 2780.0 | 2806.4 | 2816.3 |
| 17.5° | 2417.9 | 2420.1 | 2485.0 | 2586.3 | 2687.5 | 2764.5 | 2805.3 | 2835.0 | 2871.3 | 2894.4 | 2905.4 |
| 20°   | 2514.7 | 2519.1 | 2591.8 | 2711.7 | 2827.3 | 2915.3 | 2948.3 | 2937.3 | 2947.2 | 2964.8 | 2978.1 |
| 22.5° | 2644.6 | 2646.8 | 2728.2 | 2858.1 | 2979.2 | 3076.0 | 3098.0 | 3052.9 | 3025.4 | 3037.5 | 3046.3 |
| 25°   | 2795.4 | 2809.7 | 2891.1 | 3024.3 | 3148.6 | 3241.1 | 3251.0 | 3182.8 | 3114.5 | 3117.8 | 3123.3 |
| 27.5° | 2979.2 | 2992.4 | 3074.9 | 3207.0 | 3333.5 | 3413.9 | 3412.8 | 3321.4 | 3221.3 | 3196.0 | 3203.7 |
| 30°   | 3178.4 | 3192.7 | 3277.4 | 3413.9 | 3531.6 | 3602.1 | 3586.6 | 3477.7 | 3334.6 | 3287.3 | 3292.8 |
| 32.5° | 3415.0 | 3423.8 | 3509.6 | 3646.1 | 3755.0 | 3811.2 | 3779.2 | 3645.0 | 3466.7 | 3412.8 | 3426.0 |
| 35°   | 3701.1 | 3714.3 | 3778.1 | 3906.9 | 4002.7 | 4048.9 | 3994.9 | 3836.5 | 3636.2 | 3575.6 | 3584.4 |
| 37.5° | 4028.0 | 4019.2 | 4091.8 | 4206.3 | 4285.5 | 4314.1 | 4240.4 | 4052.2 | 3829.9 | 3758.3 | 3771.5 |
| 40°   | 4369.1 | 4364.7 | 4444.0 | 4554.0 | 4596.9 | 4614.6 | 4505.6 | 4299.8 | 4053.3 | 3976.2 | 4001.6 |
| 42.5° | 4678.4 | 4675.1 | 4781.8 | 4904.0 | 4955.7 | 4935.9 | 4798.3 | 4562.8 | 4311.9 | 4223.9 | 4245.9 |
| 45°   | 4926.0 | 4921.6 | 5052.6 | 5224.2 | 5325.5 | 5292.5 | 5107.6 | 4853.4 | 4573.8 | 4482.5 | 4503.4 |
| 47.5° | 5116.4 | 5118.6 | 5259.5 | 5471.9 | 5649.1 | 5661.2 | 5423.4 | 5149.4 | 4862.2 | 4758.7 | 4789.5 |
| 50°   | 5254.0 | 5260.6 | 5411.3 | 5646.9 | 5889.0 | 5995.7 | 5745.9 | 5453.2 | 5160.4 | 5043.8 | 5079.0 |
| 52.5° | 5288.1 | 5300.2 | 5481.8 | 5758.0 | 6043.0 | 6246.6 | 6073.9 | 5744.8 | 5443.3 | 5332.1 | 5360.7 |
| 55°   | 5106.5 | 5130.7 | 5360.7 | 5749.2 | 6137.7 | 6411.7 | 6362.2 | 6040.8 | 5728.3 | 5613.8 | 5645.8 |
| 57.5° | 4689.4 | 4723.5 | 4992.0 | 5499.4 | 6116.8 | 6525.1 | 6585.6 | 6324.8 | 6013.3 | 5903.3 | 5928.6 |
| 60°   | 4105.0 | 4145.7 | 4403.2 | 4956.8 | 5821.8 | 6566.9 | 6743.0 | 6601.0 | 6275.3 | 6168.5 | 6191.6 |
| 62.5° | 3223.5 | 3276.3 | 3584.4 | 4233.8 | 5198.9 | 6372.1 | 6877.3 | 6850.8 | 6510.8 | 6377.6 | 6393.0 |
| 65°   | 2067.9 | 2124.0 | 2448.7 | 3215.8 | 4368.0 | 5775.6 | 6919.1 | 7094.1 | 6759.5 | 6573.5 | 6596.6 |
| 67.5° | 1246.9 | 1272.2 | 1432.9 | 1949.1 | 3192.7 | 4876.5 | 6564.7 | 7363.7 | 7050.0 | 6818.9 | 6836.5 |
| 70°   | 797.9  | 812.2  | 907.9  | 1144.6 | 1804.9 | 3558.0 | 5686.5 | 7414.3 | 7402.2 | 7070.9 | 7068.7 |
| 72.5° | 541.5  | 545.9  | 571.2  | 677.9  | 1021.3 | 2021.7 | 4194.1 | 6712.2 | 7622.3 | 7395.6 | 7360.4 |
| 75°   | 396.2  | 420.4  | 461.1  | 479.8  | 580.0  | 1010.3 | 2403.6 | 4715.8 | 6423.8 | 6522.9 | 6283.0 |
| 77.5° | 294.9  | 296.0  | 352.2  | 374.2  | 413.8  | 538.2  | 1016.9 | 2632.5 | 3988.3 | 4187.5 | 3735.2 |
| 80°   | 249.8  | 236.6  | 235.5  | 301.5  | 311.5  | 335.7  | 454.5  | 909.0  | 1428.5 | 866.1  | 654.8  |
| 82.5° | 208.0  | 193.7  | 175.0  | 235.5  | 212.4  | 205.8  | 197.0  | 369.8  | 454.5  | 223.4  | 190.4  |
| 85°   | 145.3  | 138.7  | 132.1  | 154.1  | 121.1  | 103.5  | 94.6   | 172.8  | 191.5  | 94.6   | 83.6   |
| 87.5° | 62.7   | 64.9   | 66.0   | 68.2   | 50.6   | 36.3   | 36.3   | 48.4   | 48.4   | 37.4   | 27.5   |
| 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)