

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: P950567

Luminaire Tested: **GALN-SB5A-727-U-RW**

Issue Date: 1/21/2025

### Test Information

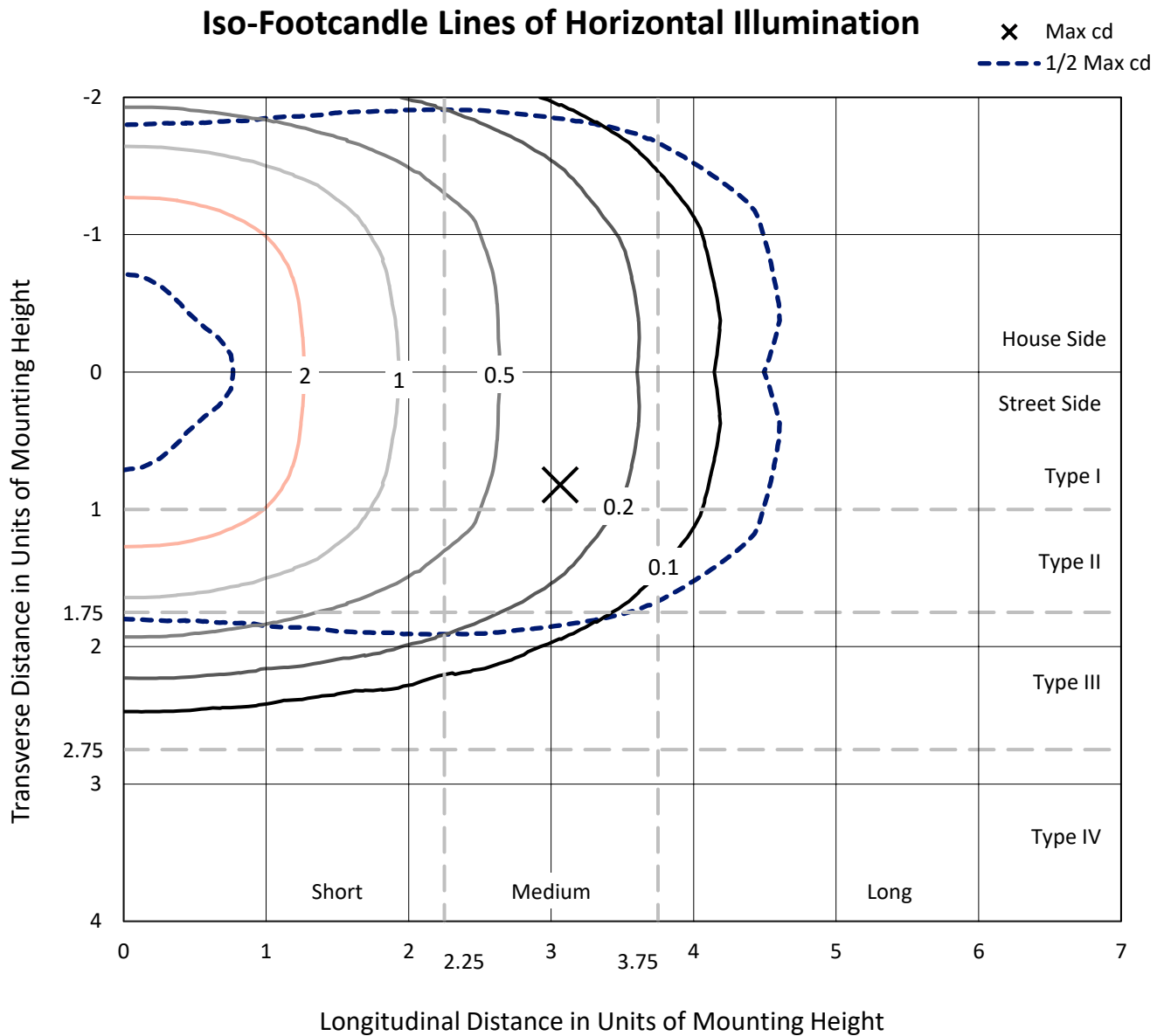
Test Method: LM-79-08  
Report Number: P950567  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-19)  
Test Lab: INNOVATION CENTER  
Issue Date: 1/21/2025  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: McGRAW-EDISON  
Catalog Number: GALN-SB5A-727-U-RW  
Description: GALLEON AREA AND ROADWAY HIGH DENSITY LED LUMINAIRE  
(5) 70 CRI, 2700K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: -

### Summary

Lumens per Lamp: N/A  
Luminaire Lumens: 21643 lumens  
Efficiency: N/A  
Efficacy: 152.7 lumens/watt  
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')  
IES Classification: Type III - Medium  
BUG Rating: B4 - U0 - G4  
  
Input Watts (W): 141.7  
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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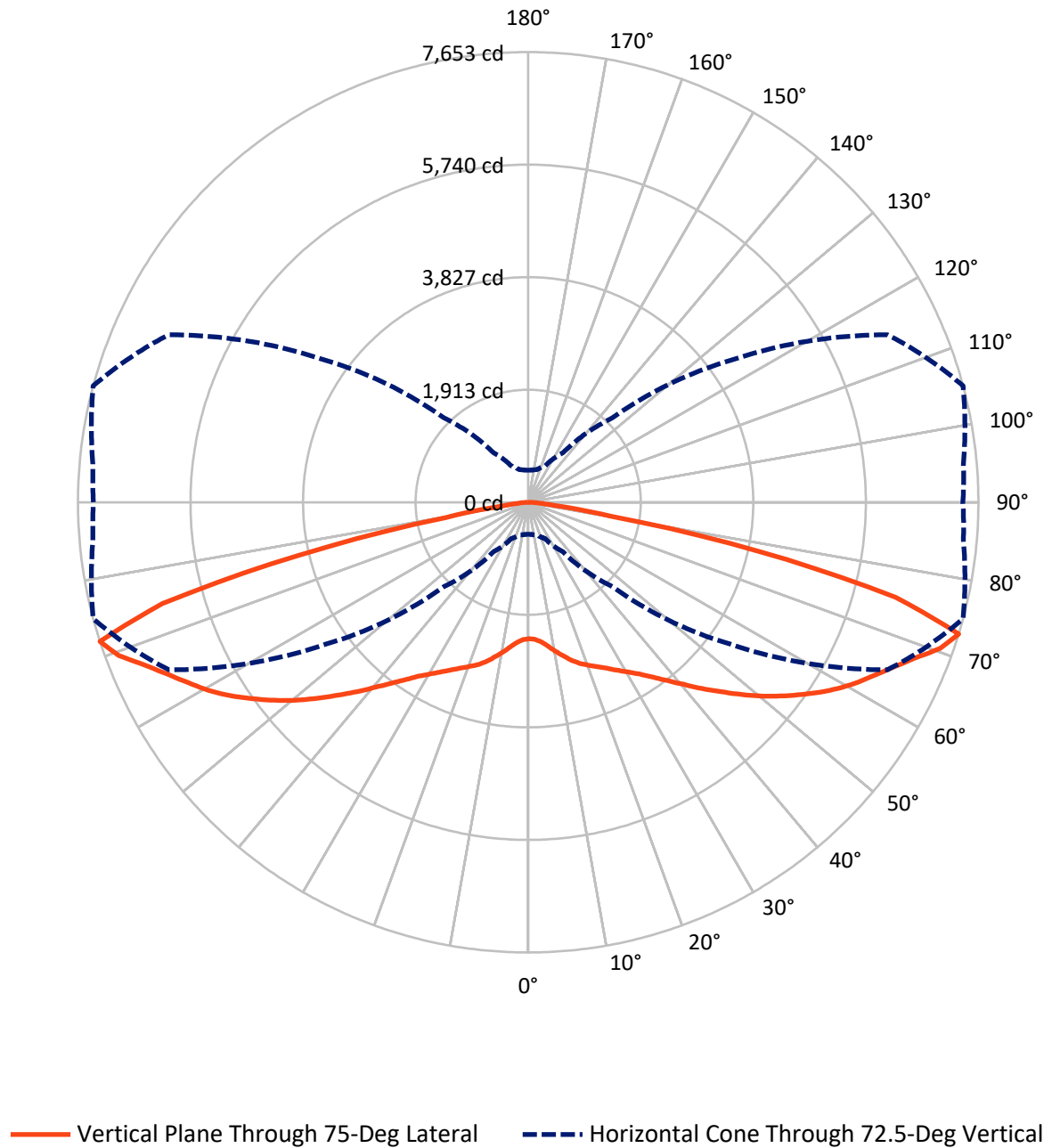


Based on 25 foot mounting height. Maximum calculated value = 4.1 fc  
 Type III - Medium - N/A

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## Luminous Intensity Polar Plot



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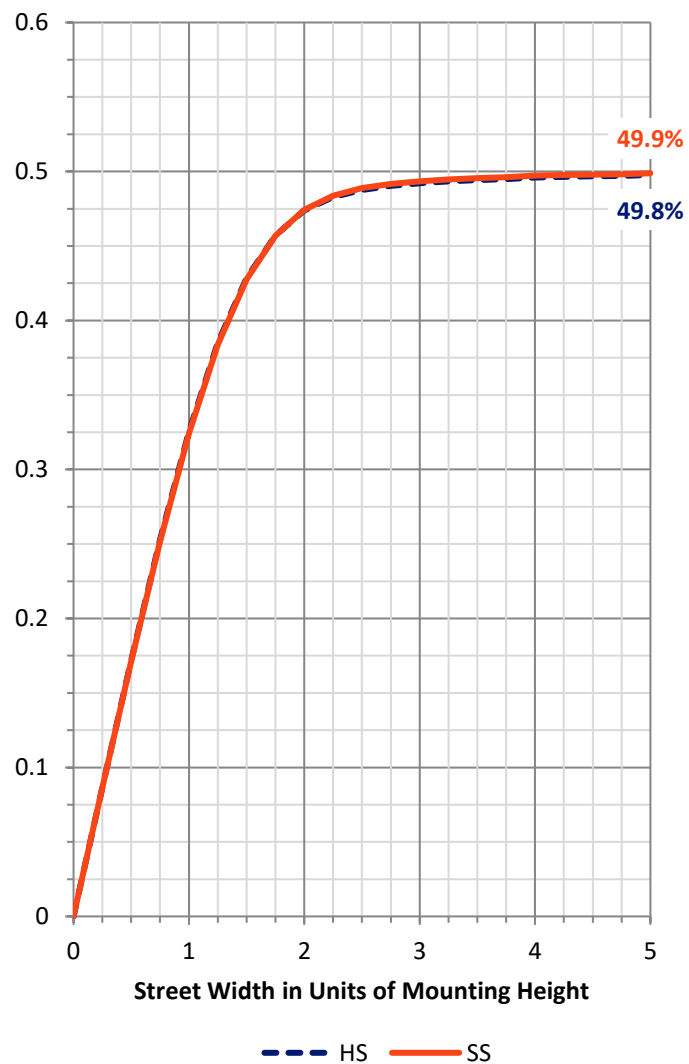
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 10821.5  | 0.0    | 10821.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 10821.5  | 0.0    | 10821.5 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 21643.0  | 0.0    | 21643.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 227.1   | 1.0       |
| 10°-20°   | 749.0   | 3.5       |
| 20°-30°   | 1447.3  | 6.7       |
| 30°-40°   | 2443.9  | 11.3      |
| 40°-50°   | 3875.8  | 17.9      |
| 50°-60°   | 5189.2  | 24.0      |
| 60°-70°   | 4938.5  | 22.8      |
| 70°-80°   | 2577.0  | 11.9      |
| 80°-90°   | 195.1   | 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°    | 21643.0 | 100.0     |
| 0°-180°   | 21643.0 | 100.0     |

**Coefficient of Utilization**



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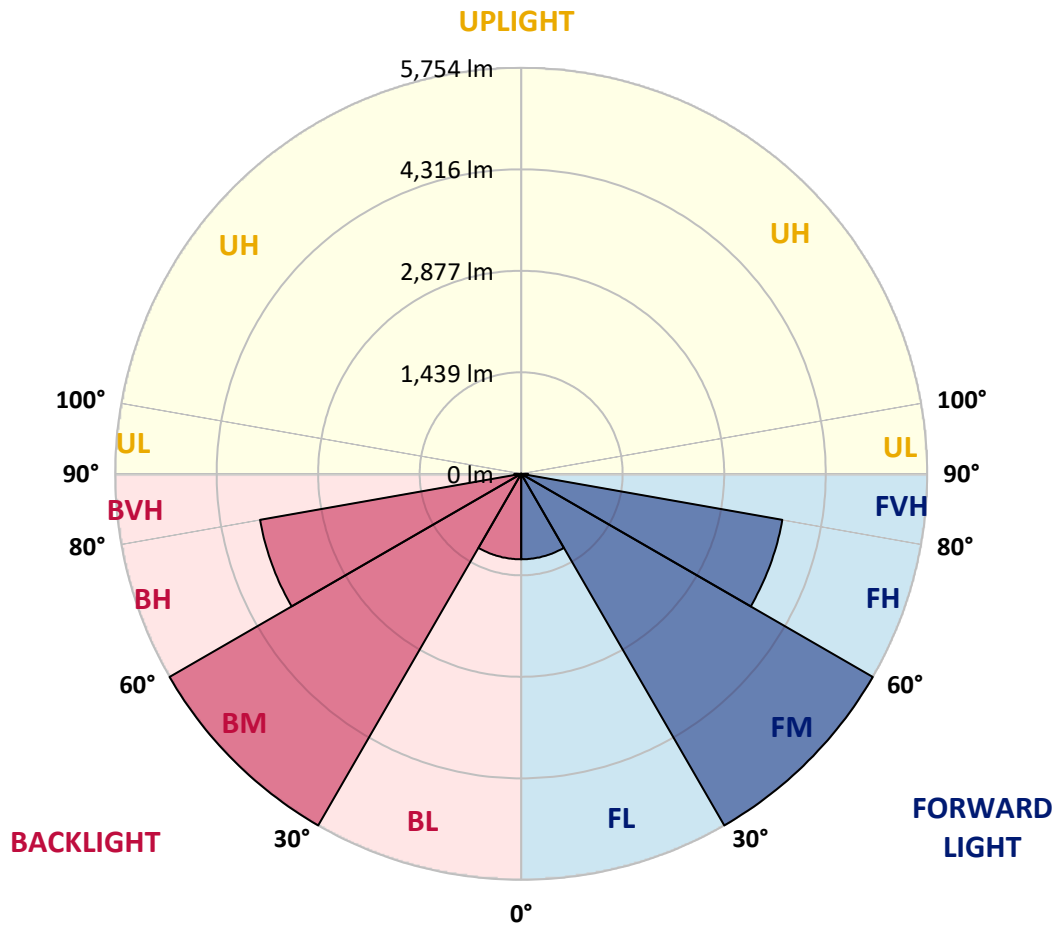
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1211.7 | 5.6       |                         |      |         |
| FM   | (30°-60°)   | 5754.5 | 26.6      |                         |      |         |
| FH   | (60°-80°)   | 3757.7 | 17.4      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 97.5   | 0.5       |                         |      | G1/100  |
| BL   | (0°-30°)    | 1211.7 | 5.6       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 5754.5 | 26.6      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 3757.7 | 17.4      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 97.5   | 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°    | 2318.4 | 2318.4 | 2318.4 | 2318.4 | 2318.4 | 2318.4 | 2318.4 | 2318.4 | 2318.4 | 2318.4 | 2318.4 |
| 2.5°  | 2318.4 | 2316.1 | 2318.4 | 2320.6 | 2319.5 | 2319.5 | 2325.0 | 2328.3 | 2334.9 | 2333.8 | 2332.7 |
| 5°    | 2302.9 | 2301.8 | 2310.6 | 2320.6 | 2328.3 | 2341.6 | 2358.1 | 2370.3 | 2385.8 | 2389.1 | 2389.1 |
| 7.5°  | 2295.1 | 2291.8 | 2307.3 | 2325.0 | 2349.3 | 2382.4 | 2414.5 | 2447.6 | 2474.2 | 2483.0 | 2485.2 |
| 10°   | 2300.7 | 2301.8 | 2322.8 | 2355.9 | 2394.6 | 2441.0 | 2486.3 | 2542.7 | 2580.2 | 2589.1 | 2597.9 |
| 12.5° | 2326.1 | 2323.9 | 2359.2 | 2412.3 | 2465.3 | 2523.9 | 2576.9 | 2638.8 | 2679.7 | 2700.7 | 2709.5 |
| 15°   | 2372.5 | 2368.1 | 2417.8 | 2496.3 | 2573.6 | 2642.1 | 2685.2 | 2743.8 | 2791.3 | 2817.8 | 2827.8 |
| 17.5° | 2427.8 | 2430.0 | 2495.2 | 2596.8 | 2698.5 | 2775.8 | 2816.7 | 2846.6 | 2883.0 | 2906.2 | 2917.3 |
| 20°   | 2525.0 | 2529.4 | 2602.3 | 2722.8 | 2838.8 | 2927.2 | 2960.4 | 2949.3 | 2959.3 | 2977.0 | 2990.2 |
| 22.5° | 2655.4 | 2657.6 | 2739.4 | 2869.8 | 2991.3 | 3088.6 | 3110.7 | 3065.4 | 3037.7 | 3049.9 | 3058.7 |
| 25°   | 2806.8 | 2821.1 | 2902.9 | 3036.6 | 3161.5 | 3254.3 | 3264.3 | 3195.7 | 3127.2 | 3130.5 | 3136.1 |
| 27.5° | 2991.3 | 3004.6 | 3087.5 | 3220.1 | 3347.1 | 3427.8 | 3426.7 | 3335.0 | 3234.4 | 3209.0 | 3216.7 |
| 30°   | 3191.3 | 3205.7 | 3290.8 | 3427.8 | 3546.0 | 3616.8 | 3601.3 | 3491.9 | 3348.2 | 3300.7 | 3306.2 |
| 32.5° | 3428.9 | 3437.7 | 3523.9 | 3661.0 | 3770.4 | 3826.7 | 3794.7 | 3659.9 | 3480.8 | 3426.7 | 3440.0 |
| 35°   | 3716.2 | 3729.5 | 3793.6 | 3922.9 | 4019.0 | 4065.4 | 4011.3 | 3852.1 | 3651.0 | 3590.2 | 3599.1 |
| 37.5° | 4044.4 | 4035.6 | 4108.5 | 4223.4 | 4303.0 | 4331.7 | 4257.7 | 4068.7 | 3845.5 | 3773.7 | 3786.9 |
| 40°   | 4387.0 | 4382.5 | 4462.1 | 4572.6 | 4615.7 | 4633.4 | 4524.0 | 4317.4 | 4069.8 | 3992.5 | 4017.9 |
| 42.5° | 4697.5 | 4694.2 | 4801.4 | 4924.0 | 4975.9 | 4956.1 | 4817.9 | 4581.5 | 4329.5 | 4241.1 | 4263.2 |
| 45°   | 4946.1 | 4941.7 | 5073.2 | 5245.6 | 5347.2 | 5314.1 | 5128.4 | 4873.2 | 4592.5 | 4500.8 | 4521.8 |
| 47.5° | 5137.3 | 5139.5 | 5280.9 | 5494.2 | 5672.1 | 5684.3 | 5445.6 | 5170.4 | 4882.0 | 4778.1 | 4809.1 |
| 50°   | 5275.4 | 5282.0 | 5433.4 | 5669.9 | 5913.0 | 6020.2 | 5769.4 | 5475.4 | 5181.5 | 5064.4 | 5099.7 |
| 52.5° | 5309.7 | 5321.8 | 5504.2 | 5781.5 | 6067.7 | 6272.1 | 6098.7 | 5768.3 | 5465.5 | 5353.9 | 5382.6 |
| 55°   | 5127.3 | 5151.6 | 5382.6 | 5772.7 | 6162.8 | 6437.9 | 6388.2 | 6065.5 | 5751.7 | 5636.8 | 5668.8 |
| 57.5° | 4708.5 | 4742.8 | 5012.4 | 5521.8 | 6141.8 | 6551.7 | 6612.5 | 6350.6 | 6037.9 | 5927.4 | 5952.8 |
| 60°   | 4121.8 | 4162.6 | 4421.2 | 4977.1 | 5845.6 | 6593.7 | 6770.5 | 6628.0 | 6300.9 | 6193.7 | 6216.9 |
| 62.5° | 3236.6 | 3289.7 | 3599.1 | 4251.1 | 5220.2 | 6398.1 | 6905.3 | 6878.8 | 6537.4 | 6403.6 | 6419.1 |
| 65°   | 2076.4 | 2132.7 | 2458.7 | 3228.9 | 4385.9 | 5799.2 | 6947.3 | 7123.0 | 6787.1 | 6600.3 | 6623.5 |
| 67.5° | 1252.0 | 1277.4 | 1438.7 | 1957.0 | 3205.7 | 4896.4 | 6591.5 | 7393.8 | 7078.8 | 6846.8 | 6864.4 |
| 70°   | 801.1  | 815.5  | 911.6  | 1149.2 | 1812.2 | 3572.6 | 5709.7 | 7444.6 | 7432.4 | 7099.8 | 7097.6 |
| 72.5° | 543.7  | 548.1  | 573.5  | 680.7  | 1025.5 | 2029.9 | 4211.3 | 6739.6 | 7653.4 | 7425.8 | 7390.4 |
| 75°   | 397.8  | 422.1  | 463.0  | 481.8  | 582.4  | 1014.4 | 2413.4 | 4735.1 | 6450.1 | 6549.5 | 6308.6 |
| 77.5° | 296.1  | 297.3  | 353.6  | 375.7  | 415.5  | 540.4  | 1021.0 | 2643.2 | 4004.6 | 4204.6 | 3750.5 |
| 80°   | 250.8  | 237.6  | 236.5  | 302.8  | 312.7  | 337.0  | 456.4  | 912.8  | 1434.3 | 869.7  | 657.5  |
| 82.5° | 208.9  | 194.5  | 175.7  | 236.5  | 213.3  | 206.6  | 197.8  | 371.3  | 456.4  | 224.3  | 191.2  |
| 85°   | 145.9  | 139.2  | 132.6  | 154.7  | 121.6  | 103.9  | 95.0   | 173.5  | 192.3  | 95.0   | 84.0   |
| 87.5° | 63.0   | 65.2   | 66.3   | 68.5   | 50.8   | 36.5   | 36.5   | 48.6   | 48.6   | 37.6   | 27.6   |
| 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)