

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: STREETWORKS

Report Number: P317048

Luminaire Tested: **GAN-SA4C-727-U-RW**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P317048  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)  
Test Lab: INNOVATION CENTER  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: STREETWORKS  
Catalog Number: GAN-SA4C-727-U-RW  
Description: GALLEON AREA AND ROADWAY LUMINAIRE  
(4) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR  
WIDE OPTICS  
Light Source: -  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 24390 lumens  
Efficiency: N/A  
Efficacy: 108.4 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')  
IES Classification: Type III - Short  
BUG Rating: B4 - U0 - G4

Input Watts (W): 225  
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

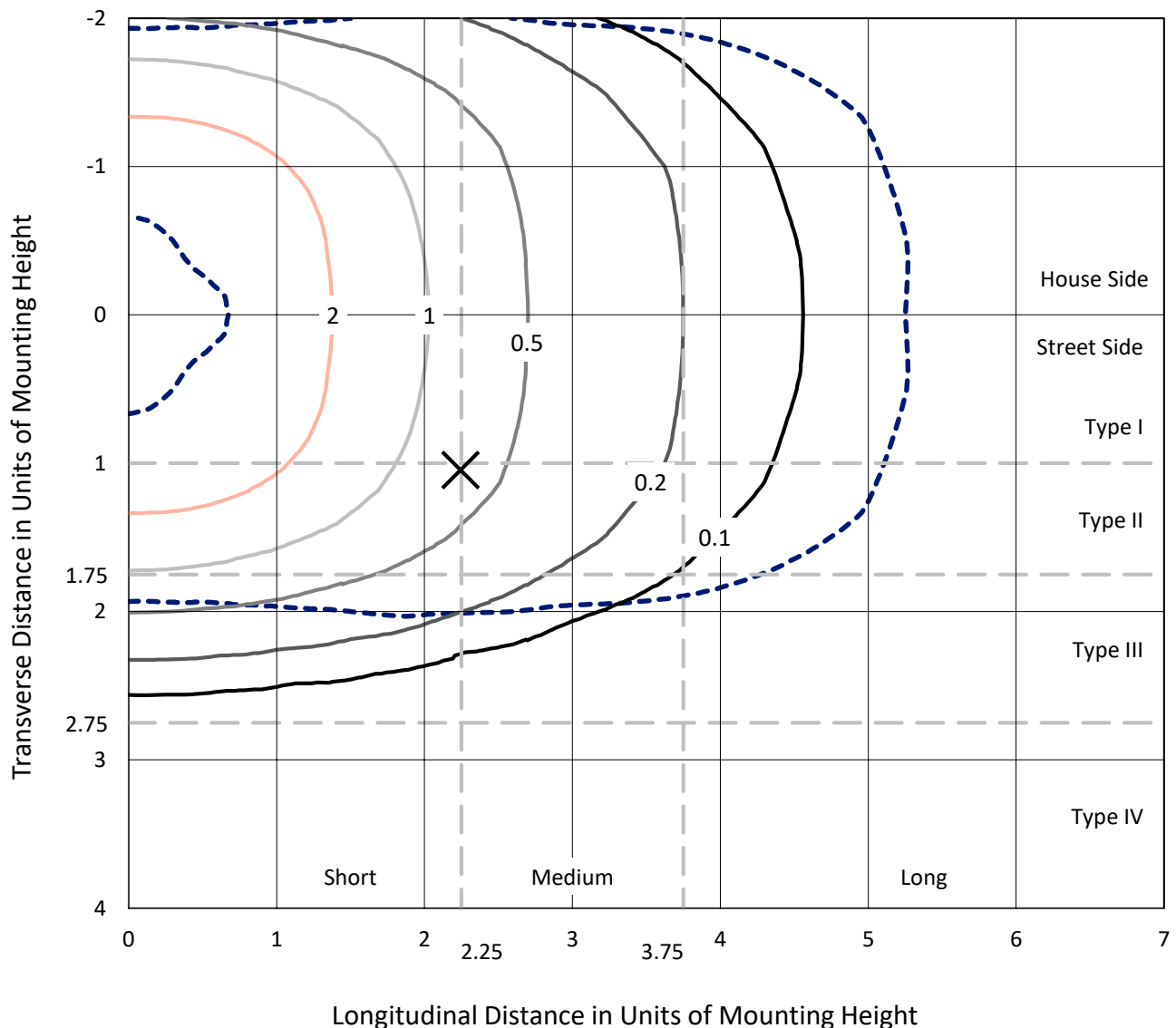


REPORT NUMBER: P317048

CATALOG NUMBER: GAN-SA4C-727-U-RW

## Iso-Footcandle Lines of Horizontal Illumination

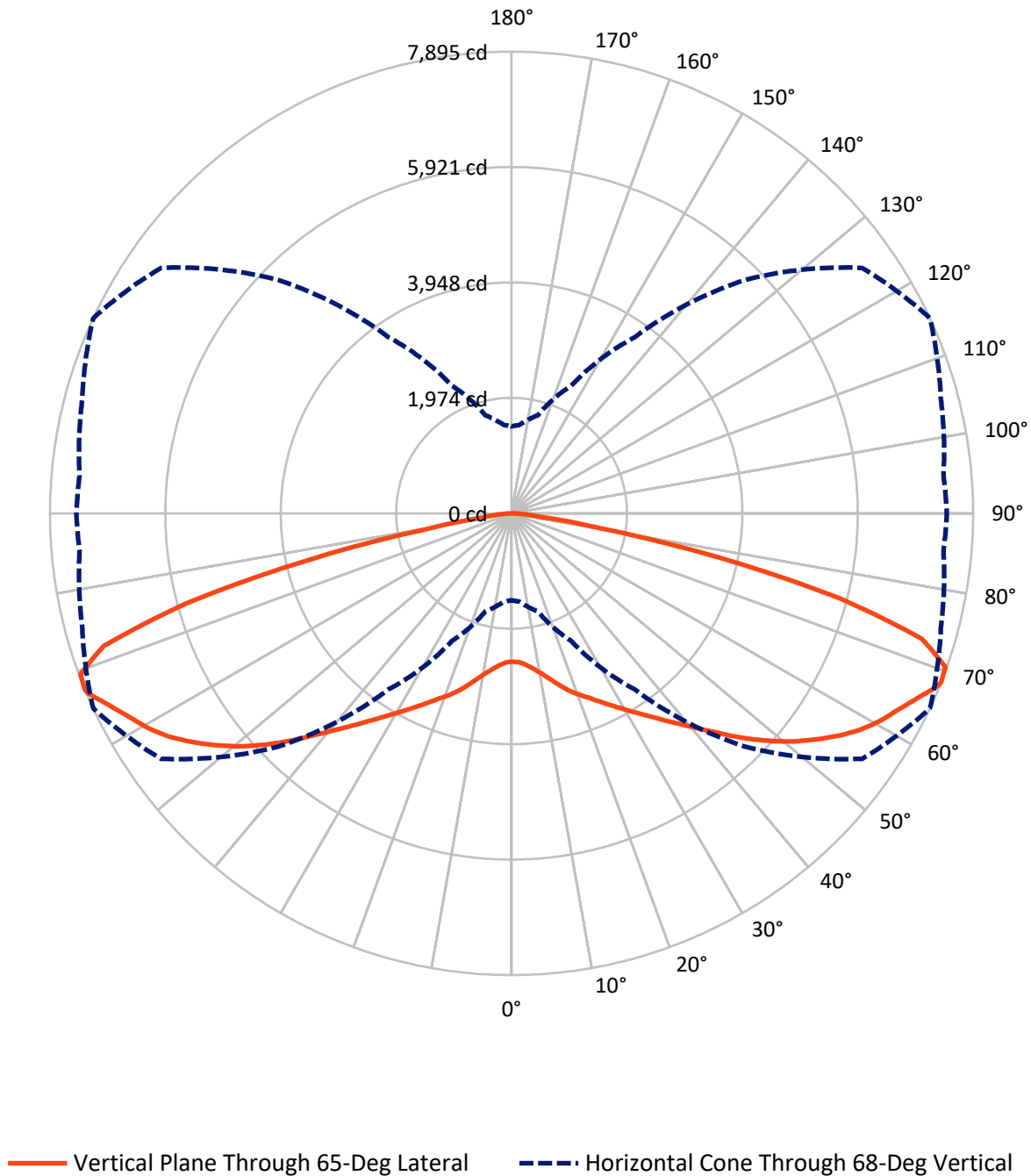
✕ Max cd  
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc  
 Type III - Short - N/A

REPORT NUMBER: P317048  
CATALOG NUMBER: GAN-SA4C-727-U-RW

## Luminous Intensity Polar Plot



REPORT NUMBER: P317048

CATALOG NUMBER: GAN-SA4C-727-U-RW

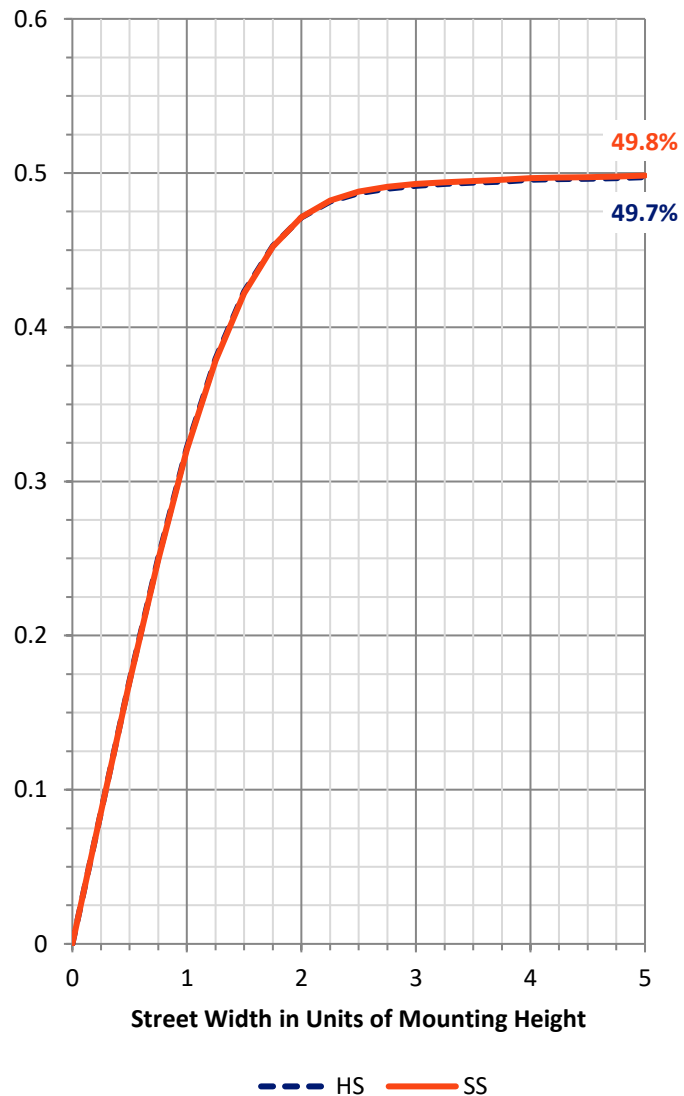
**FLUX DISTRIBUTION:**

|                    |           | Downward | Upward | Total   |
|--------------------|-----------|----------|--------|---------|
| <b>House Side</b>  | Lumens    | 12195.0  | 0.0    | 12195.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Street Side</b> | Lumens    | 12195.0  | 0.0    | 12195.0 |
|                    | % Fixture | 50.0     | 0.0    | 50.0    |
| <b>Total</b>       | Lumens    | 24390.0  | 0.0    | 24390.0 |
|                    | % Fixture | 100.0    | 0.0    | 100.0   |

**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 248.3   | 1.0       |
| 10°-20°   | 831.4   | 3.4       |
| 20°-30°   | 1621.0  | 6.6       |
| 30°-40°   | 2723.1  | 11.2      |
| 40°-50°   | 4290.7  | 17.6      |
| 50°-60°   | 5738.1  | 23.5      |
| 60°-70°   | 5578.1  | 22.9      |
| 70°-80°   | 3049.3  | 12.5      |
| 80°-90°   | 310.1   | 1.3       |
| 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°    | 24390.0 | 100.0     |
| 0°-180°   | 24390.0 | 100.0     |

**Coefficient of Utilization**



REPORT NUMBER: P317048

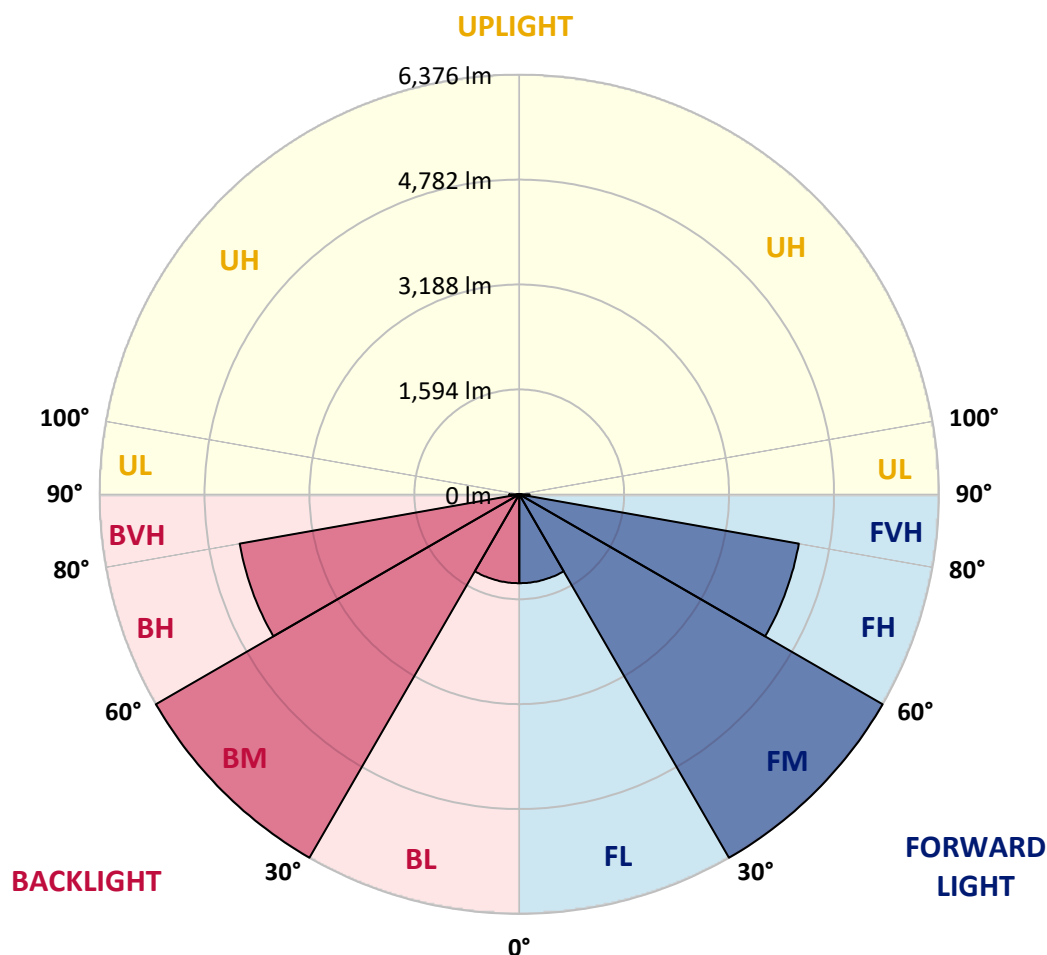
CATALOG NUMBER: GAN-SA4C-727-U-RW

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

| Zone |             | Lumens | % Fixture | Zone Rating/Lumen Limit |      |         |
|------|-------------|--------|-----------|-------------------------|------|---------|
|      |             |        |           | B                       | U    | G       |
| FL   | (0°-30°)    | 1350.3 | 5.5       |                         |      |         |
| FM   | (30°-60°)   | 6375.9 | 26.1      |                         |      |         |
| FH   | (60°-80°)   | 4313.7 | 17.7      |                         |      | G2/5000 |
| FVH  | (80°-90°)   | 155.1  | 0.6       |                         |      | G2/225  |
| BL   | (0°-30°)    | 1350.3 | 5.5       | B3/2500                 |      |         |
| BM   | (30°-60°)   | 6375.9 | 26.1      | B4/8500                 |      |         |
| BH   | (60°-80°)   | 4313.7 | 17.7      | B4/5000                 |      | G4/5000 |
| BVH  | (80°-90°)   | 155.1  | 0.6       |                         |      | G2/225  |
| 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 Short





REPORT NUMBER: P317048

CATALOG NUMBER: GAN-SA4C-727-U-RW

**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 65°    | 75°    | 85°    | 90°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 2536.0 | 2536.0 | 2536.0 | 2536.0 | 2536.0 | 2536.0 | 2536.0 | 2536.0 | 2536.0 | 2536.0 | 2536.0 |
| 2.5°  | 2518.0 | 2518.8 | 2522.9 | 2527.8 | 2531.9 | 2542.5 | 2545.0 | 2549.1 | 2550.7 | 2554.8 | 2554.8 |
| 5°    | 2495.9 | 2497.5 | 2507.4 | 2520.4 | 2535.2 | 2561.3 | 2580.1 | 2601.4 | 2612.0 | 2623.5 | 2622.7 |
| 7.5°  | 2493.5 | 2497.5 | 2511.5 | 2532.7 | 2557.2 | 2600.6 | 2639.8 | 2682.4 | 2711.0 | 2737.2 | 2735.5 |
| 10°   | 2518.8 | 2525.4 | 2545.0 | 2576.9 | 2613.7 | 2667.7 | 2725.7 | 2783.0 | 2832.8 | 2872.9 | 2874.6 |
| 12.5° | 2557.2 | 2565.4 | 2596.5 | 2644.8 | 2700.4 | 2769.9 | 2838.6 | 2903.2 | 2971.9 | 3031.6 | 3036.5 |
| 15°   | 2608.0 | 2618.6 | 2665.2 | 2737.2 | 2822.2 | 2904.8 | 2978.4 | 3044.7 | 3124.0 | 3206.6 | 3214.8 |
| 17.5° | 2683.2 | 2697.9 | 2759.2 | 2856.6 | 2968.6 | 3059.4 | 3136.2 | 3186.1 | 3252.4 | 3337.4 | 3353.0 |
| 20°   | 2797.7 | 2816.5 | 2894.2 | 3010.3 | 3146.9 | 3241.7 | 3300.6 | 3311.3 | 3344.0 | 3420.0 | 3438.0 |
| 22.5° | 2946.5 | 2962.9 | 3049.6 | 3187.8 | 3340.7 | 3443.7 | 3474.8 | 3432.3 | 3429.0 | 3490.4 | 3507.5 |
| 25°   | 3112.5 | 3127.3 | 3227.8 | 3383.2 | 3547.6 | 3661.3 | 3660.5 | 3577.9 | 3520.6 | 3568.0 | 3586.0 |
| 27.5° | 3299.0 | 3321.9 | 3418.4 | 3581.9 | 3757.8 | 3869.8 | 3863.3 | 3735.7 | 3626.9 | 3639.2 | 3654.7 |
| 30°   | 3513.3 | 3538.6 | 3632.7 | 3798.7 | 3974.5 | 4084.1 | 4075.9 | 3907.4 | 3743.9 | 3711.2 | 3722.6 |
| 32.5° | 3779.0 | 3809.3 | 3898.4 | 4062.0 | 4217.4 | 4316.3 | 4292.6 | 4093.9 | 3884.5 | 3813.4 | 3824.0 |
| 35°   | 4098.8 | 4116.8 | 4210.8 | 4371.9 | 4497.9 | 4565.8 | 4515.9 | 4309.8 | 4062.8 | 3976.9 | 3976.9 |
| 37.5° | 4422.6 | 4436.5 | 4542.0 | 4698.2 | 4820.1 | 4856.1 | 4758.8 | 4546.1 | 4295.9 | 4174.0 | 4176.5 |
| 40°   | 4733.4 | 4771.0 | 4889.6 | 5049.9 | 5170.1 | 5179.9 | 5050.7 | 4816.0 | 4555.1 | 4429.2 | 4443.9 |
| 42.5° | 5058.1 | 5094.9 | 5236.3 | 5417.9 | 5524.2 | 5540.6 | 5389.3 | 5118.6 | 4847.9 | 4745.7 | 4762.0 |
| 45°   | 5347.6 | 5377.0 | 5540.6 | 5751.6 | 5884.0 | 5926.6 | 5747.5 | 5465.3 | 5164.4 | 5064.6 | 5068.7 |
| 47.5° | 5549.6 | 5588.0 | 5767.9 | 6016.5 | 6209.5 | 6275.0 | 6099.1 | 5803.1 | 5476.0 | 5354.9 | 5365.6 |
| 50°   | 5732.8 | 5753.2 | 5935.6 | 6207.1 | 6452.4 | 6587.3 | 6436.9 | 6136.7 | 5790.8 | 5662.4 | 5673.9 |
| 52.5° | 5835.0 | 5861.1 | 6037.8 | 6320.7 | 6611.1 | 6828.6 | 6737.0 | 6436.9 | 6095.0 | 5969.9 | 5983.8 |
| 55°   | 5763.8 | 5783.5 | 5995.3 | 6346.1 | 6709.2 | 6977.4 | 6991.3 | 6730.5 | 6393.5 | 6283.9 | 6323.2 |
| 57.5° | 5440.0 | 5464.5 | 5722.9 | 6182.5 | 6721.5 | 7078.0 | 7182.7 | 7002.8 | 6672.4 | 6583.3 | 6606.2 |
| 60°   | 4933.8 | 4949.3 | 5224.9 | 5741.7 | 6482.7 | 7119.7 | 7304.6 | 7225.2 | 6945.5 | 6856.4 | 6887.5 |
| 62.5° | 4031.7 | 4054.6 | 4384.2 | 5076.9 | 5978.1 | 6996.2 | 7422.3 | 7409.2 | 7199.9 | 7118.1 | 7145.9 |
| 65°   | 2756.0 | 2796.0 | 3160.8 | 4036.6 | 5200.4 | 6618.4 | 7529.4 | 7623.5 | 7424.8 | 7321.7 | 7358.5 |
| 67.5° | 1664.2 | 1693.7 | 1957.8 | 2665.2 | 3979.4 | 5856.2 | 7419.0 | 7867.2 | 7583.4 | 7417.4 | 7447.7 |
| 68°   | 1487.6 | 1514.6 | 1735.4 | 2405.1 | 3680.9 | 5641.2 | 7318.5 | 7895.0 | 7600.6 | 7415.8 | 7442.8 |
| 70°   | 898.8  | 916.7  | 1064.8 | 1486.8 | 2454.2 | 4475.0 | 6632.3 | 7872.1 | 7710.2 | 7438.7 | 7454.2 |
| 72.5° | 585.5  | 591.3  | 615.8  | 763.0  | 1253.7 | 2502.5 | 4977.9 | 7335.6 | 7874.6 | 7572.0 | 7569.5 |
| 75°   | 486.6  | 483.3  | 485.8  | 502.9  | 618.3  | 1097.5 | 2908.9 | 5794.9 | 7506.6 | 7361.8 | 7310.3 |
| 77.5° | 411.4  | 408.9  | 408.1  | 408.9  | 413.8  | 529.9  | 1262.7 | 3609.8 | 5744.2 | 6512.1 | 6557.9 |
| 80°   | 332.8  | 329.6  | 340.2  | 335.3  | 320.6  | 329.6  | 529.1  | 1501.5 | 2707.7 | 2913.0 | 2729.8 |
| 82.5° | 242.1  | 229.8  | 275.6  | 262.5  | 250.2  | 232.3  | 292.0  | 485.0  | 646.1  | 443.2  | 311.6  |
| 85°   | 186.5  | 173.4  | 209.4  | 201.2  | 171.7  | 118.6  | 173.4  | 237.2  | 261.7  | 149.7  | 117.8  |
| 87.5° | 76.1   | 80.1   | 151.3  | 119.4  | 100.6  | 57.2   | 71.1   | 94.9   | 127.6  | 63.8   | 49.1   |
| 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)