

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: P316169

Luminaire Tested: **GAN-SA5C-740-U-5WQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316169
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA5C-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 4000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 37236 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

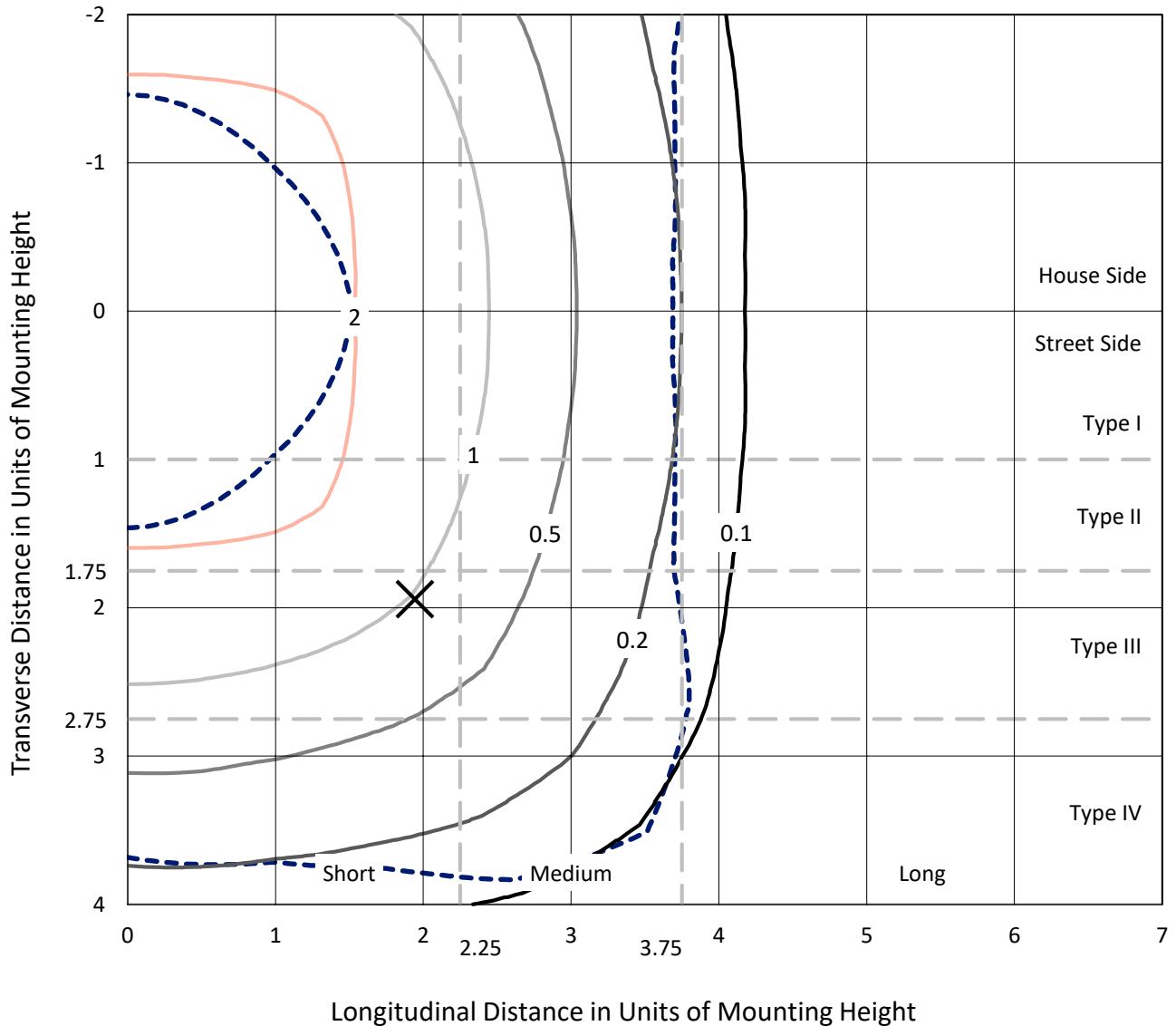
Input Watts (W): 279
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

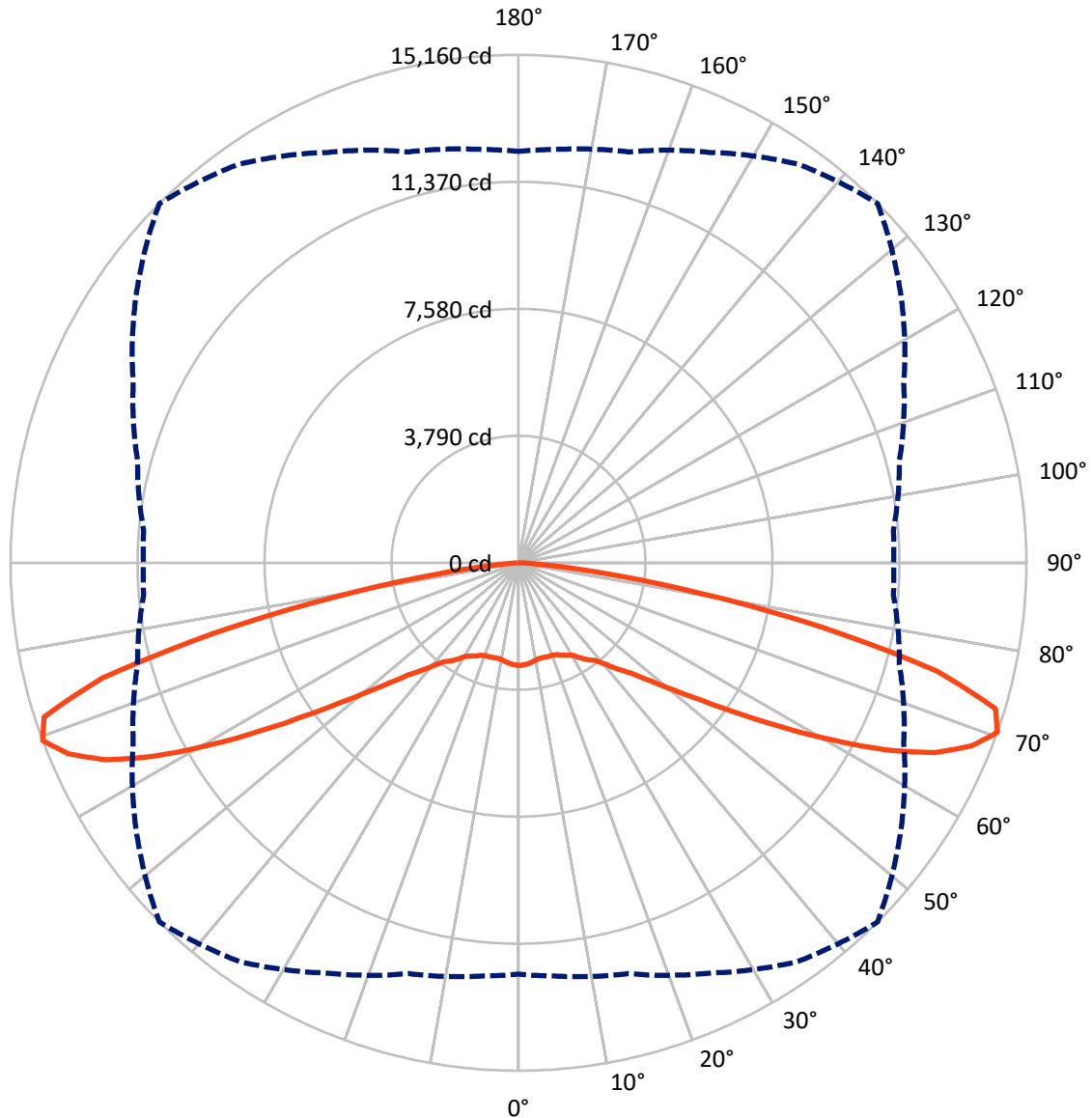
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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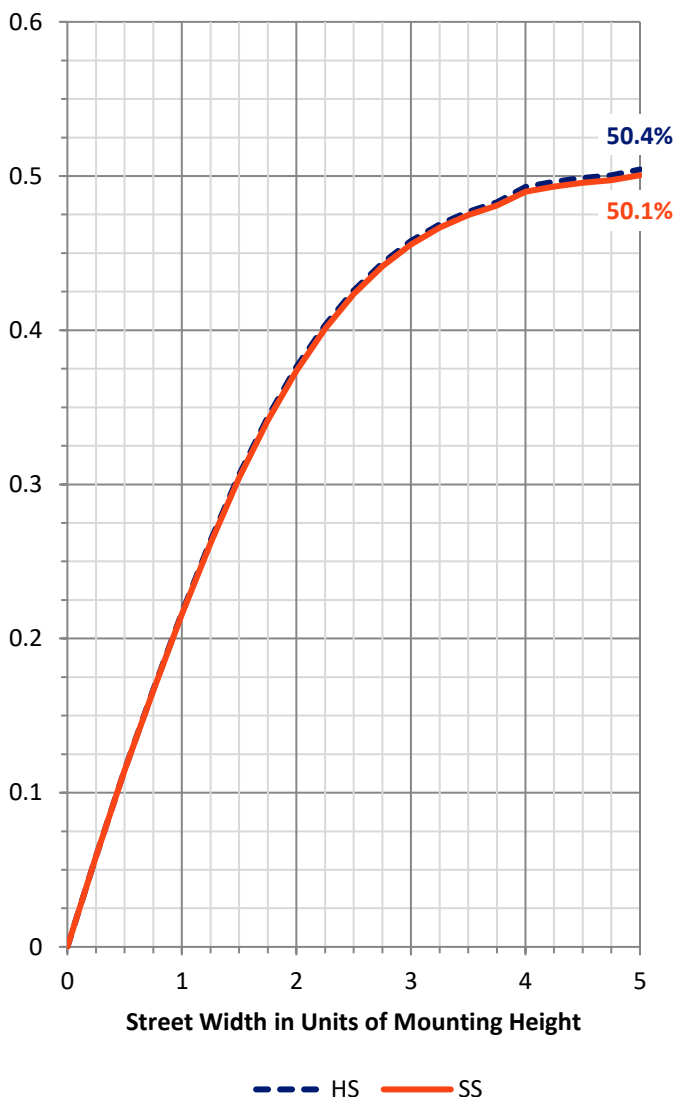
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 18618.0 | 0.0 | 18618.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 18618.0 | 0.0 | 18618.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 37236.0 | 0.0 | 37236.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 286.0 | 0.8 |
| 10°-20° | 835.5 | 2.2 |
| 20°-30° | 1424.5 | 3.8 |
| 30°-40° | 2225.8 | 6.0 |
| 40°-50° | 3772.2 | 10.1 |
| 50°-60° | 6878.8 | 18.5 |
| 60°-70° | 11842.4 | 31.8 |
| 70°-80° | 9282.5 | 24.9 |
| 80°-90° | 688.3 | 1.8 |
| 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° | 37236.0 | 100.0 |
| 0°-180° | 37236.0 | 100.0 |

Coefficient of Utilization

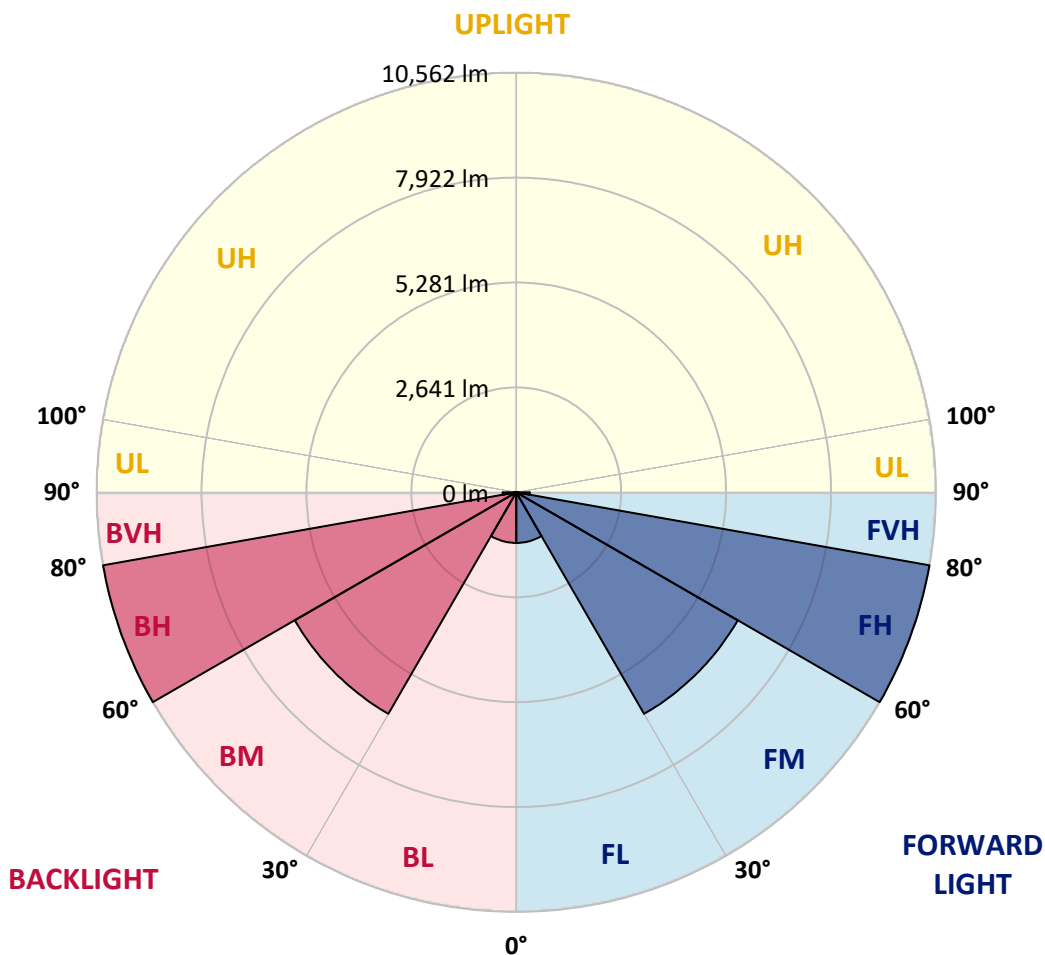


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1273.0 | 3.4 | | | |
| FM (30°-60°) | 6438.4 | 17.3 | | | |
| FH (60°-80°) | 10562.5 | 28.4 | | | G4/12000 |
| FVH (80°-90°) | 344.1 | 0.9 | | | G3/500 |
| BL (0°-30°) | 1273.0 | 3.4 | B3/2500 | | |
| BM (30°-60°) | 6438.4 | 17.3 | B4/8500 | | |
| BH (60°-80°) | 10562.5 | 28.4 | B5 | | G4/12000 |
| BVH (80°-90°) | 344.1 | 0.9 | | | G3/500 |
| 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





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3064.5 | 3064.5 | 3064.5 | 3064.5 | 3064.5 | 3064.5 | 3064.5 | 3064.5 | 3064.5 | 3064.5 | 3064.5 |
| 2.5° | 3051.0 | 3054.7 | 3051.0 | 3053.4 | 3047.3 | 3049.7 | 3049.7 | 3049.7 | 3048.5 | 3049.7 | 3047.3 |
| 5° | 3023.9 | 3026.3 | 3021.4 | 3023.9 | 3020.2 | 3023.9 | 3025.1 | 3023.9 | 3021.4 | 3022.6 | 3017.7 |
| 7.5° | 2983.2 | 2985.7 | 2982.0 | 2985.7 | 2980.8 | 2986.9 | 2985.7 | 2982.0 | 2978.3 | 2978.3 | 2973.4 |
| 10° | 2961.1 | 2962.3 | 2952.4 | 2948.7 | 2937.7 | 2940.1 | 2943.8 | 2947.5 | 2951.2 | 2958.6 | 2957.4 |
| 12.5° | 2962.3 | 2962.3 | 2947.5 | 2931.5 | 2915.5 | 2919.2 | 2925.3 | 2938.9 | 2953.7 | 2967.2 | 2968.5 |
| 15° | 2974.6 | 2973.4 | 2951.2 | 2925.3 | 2914.3 | 2925.3 | 2929.0 | 2937.7 | 2961.1 | 2984.5 | 2985.7 |
| 17.5° | 2983.2 | 2983.2 | 2948.7 | 2919.2 | 2918.0 | 2935.2 | 2934.0 | 2937.7 | 2963.5 | 2998.0 | 2999.2 |
| 20° | 2999.2 | 2999.2 | 2954.9 | 2922.9 | 2922.9 | 2941.4 | 2942.6 | 2948.7 | 2974.6 | 3012.8 | 3019.0 |
| 22.5° | 3035.0 | 3036.2 | 2989.4 | 2963.5 | 2966.0 | 2977.1 | 2980.8 | 2990.6 | 3014.0 | 3055.9 | 3063.3 |
| 25° | 3085.5 | 3087.9 | 3039.9 | 3025.1 | 3033.7 | 3054.7 | 3052.2 | 3059.6 | 3085.5 | 3126.1 | 3133.5 |
| 27.5° | 3155.7 | 3149.5 | 3105.2 | 3099.0 | 3107.6 | 3122.4 | 3121.2 | 3122.4 | 3143.4 | 3180.3 | 3188.9 |
| 30° | 3246.8 | 3244.4 | 3212.3 | 3216.0 | 3212.3 | 3207.4 | 3208.6 | 3218.5 | 3229.6 | 3259.1 | 3267.8 |
| 32.5° | 3335.5 | 3338.0 | 3318.3 | 3336.7 | 3363.8 | 3382.3 | 3354.0 | 3326.9 | 3314.6 | 3330.6 | 3338.0 |
| 35° | 3495.6 | 3501.8 | 3471.0 | 3458.7 | 3495.6 | 3549.8 | 3469.8 | 3425.4 | 3450.1 | 3471.0 | 3477.2 |
| 37.5° | 3767.8 | 3771.5 | 3719.8 | 3670.5 | 3643.4 | 3695.2 | 3615.1 | 3618.8 | 3705.0 | 3744.4 | 3743.2 |
| 40° | 4078.2 | 4079.5 | 4045.0 | 4001.9 | 3955.1 | 3967.4 | 3935.4 | 3945.2 | 4001.9 | 4037.6 | 4047.4 |
| 42.5° | 4447.8 | 4444.1 | 4389.9 | 4328.3 | 4314.7 | 4327.0 | 4272.8 | 4265.5 | 4330.7 | 4394.8 | 4396.0 |
| 45° | 4926.9 | 4918.3 | 4848.1 | 4780.3 | 4715.0 | 4687.9 | 4674.4 | 4710.1 | 4800.0 | 4859.1 | 4860.4 |
| 47.5° | 5443.0 | 5419.6 | 5382.6 | 5328.4 | 5271.8 | 5244.7 | 5222.5 | 5239.8 | 5305.0 | 5328.4 | 5330.9 |
| 50° | 5973.9 | 5978.8 | 5986.2 | 5965.2 | 5944.3 | 5935.7 | 5877.8 | 5844.5 | 5864.2 | 5821.1 | 5815.0 |
| 52.5° | 6603.3 | 6613.1 | 6684.6 | 6744.9 | 6780.6 | 6799.1 | 6689.5 | 6574.9 | 6510.9 | 6427.1 | 6402.5 |
| 55° | 7346.0 | 7362.0 | 7466.7 | 7634.2 | 7806.7 | 7897.8 | 7699.5 | 7485.2 | 7286.9 | 7130.4 | 7079.9 |
| 57.5° | 8173.7 | 8202.0 | 8346.2 | 8667.6 | 9021.1 | 9236.7 | 8901.7 | 8512.4 | 8129.4 | 7904.0 | 7864.6 |
| 60° | 9144.3 | 9171.4 | 9371.0 | 9831.6 | 10404.4 | 10728.3 | 10220.8 | 9584.0 | 9107.4 | 8891.8 | 8819.1 |
| 62.5° | 10299.7 | 10302.1 | 10547.2 | 11085.5 | 11841.8 | 12292.6 | 11605.3 | 10754.2 | 10262.7 | 10002.8 | 9932.6 |
| 65° | 11542.5 | 11548.6 | 11802.4 | 12383.7 | 13165.9 | 13656.1 | 12880.1 | 11993.3 | 11392.2 | 11009.1 | 10954.9 |
| 67.5° | 12420.7 | 12446.6 | 12713.8 | 13413.5 | 14145.1 | 14587.3 | 13784.2 | 12781.6 | 12086.9 | 11629.9 | 11584.4 |
| 70° | 12280.3 | 12381.3 | 12695.4 | 13512.0 | 14529.4 | 15160.1 | 13930.8 | 12688.0 | 11771.6 | 11232.1 | 11193.9 |
| 72.5° | 10709.8 | 10903.2 | 11322.0 | 12393.6 | 14020.7 | 14889.1 | 13131.4 | 11363.9 | 10326.8 | 9867.3 | 9798.4 |
| 75° | 7293.0 | 7607.1 | 8239.0 | 9784.8 | 11978.5 | 12891.2 | 11054.7 | 9060.6 | 8085.0 | 7449.5 | 7402.7 |
| 77.5° | 3251.7 | 3323.2 | 4123.8 | 5903.7 | 8266.1 | 9257.6 | 8032.1 | 5927.1 | 4449.0 | 3548.6 | 3358.9 |
| 80° | 906.5 | 917.6 | 1224.3 | 2198.6 | 4137.4 | 5439.3 | 4441.6 | 2309.5 | 1298.2 | 915.2 | 862.2 |
| 82.5° | 288.2 | 312.9 | 381.8 | 570.3 | 1390.6 | 2481.9 | 1427.6 | 615.9 | 438.5 | 349.8 | 315.3 |
| 85° | 140.4 | 139.2 | 193.4 | 231.6 | 354.7 | 549.3 | 378.1 | 285.8 | 250.0 | 166.3 | 150.3 |
| 87.5° | 59.1 | 60.4 | 89.9 | 81.3 | 103.5 | 88.7 | 121.9 | 128.1 | 134.3 | 73.9 | 64.0 |
| 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)