

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: P654466

Luminaire Tested: **GLAN-SA7B-840-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P654466
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA7B-840-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 34884.7 lumens
Efficiency: N/A
Efficacy: 122.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

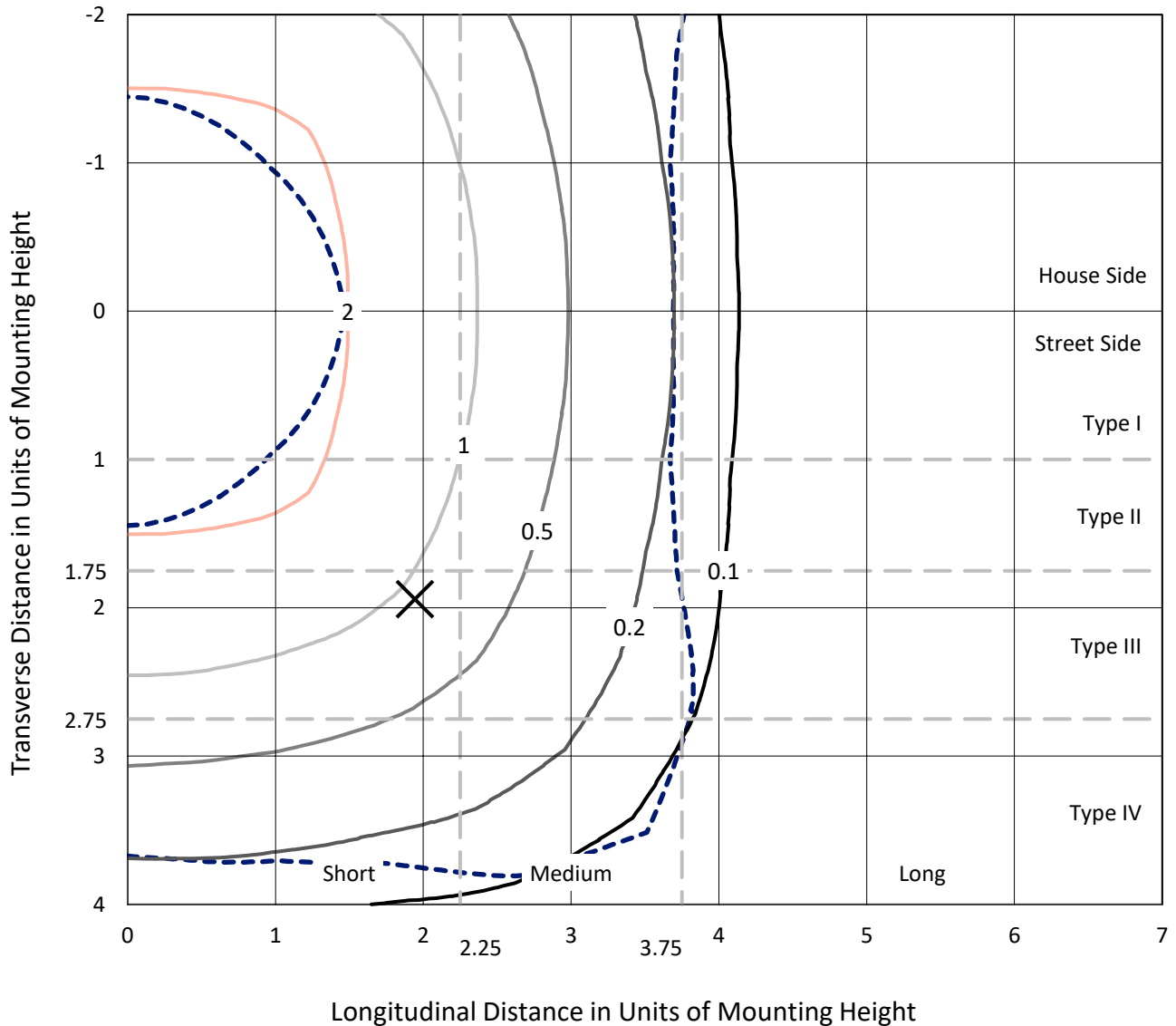
Input Watts (W): 286
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

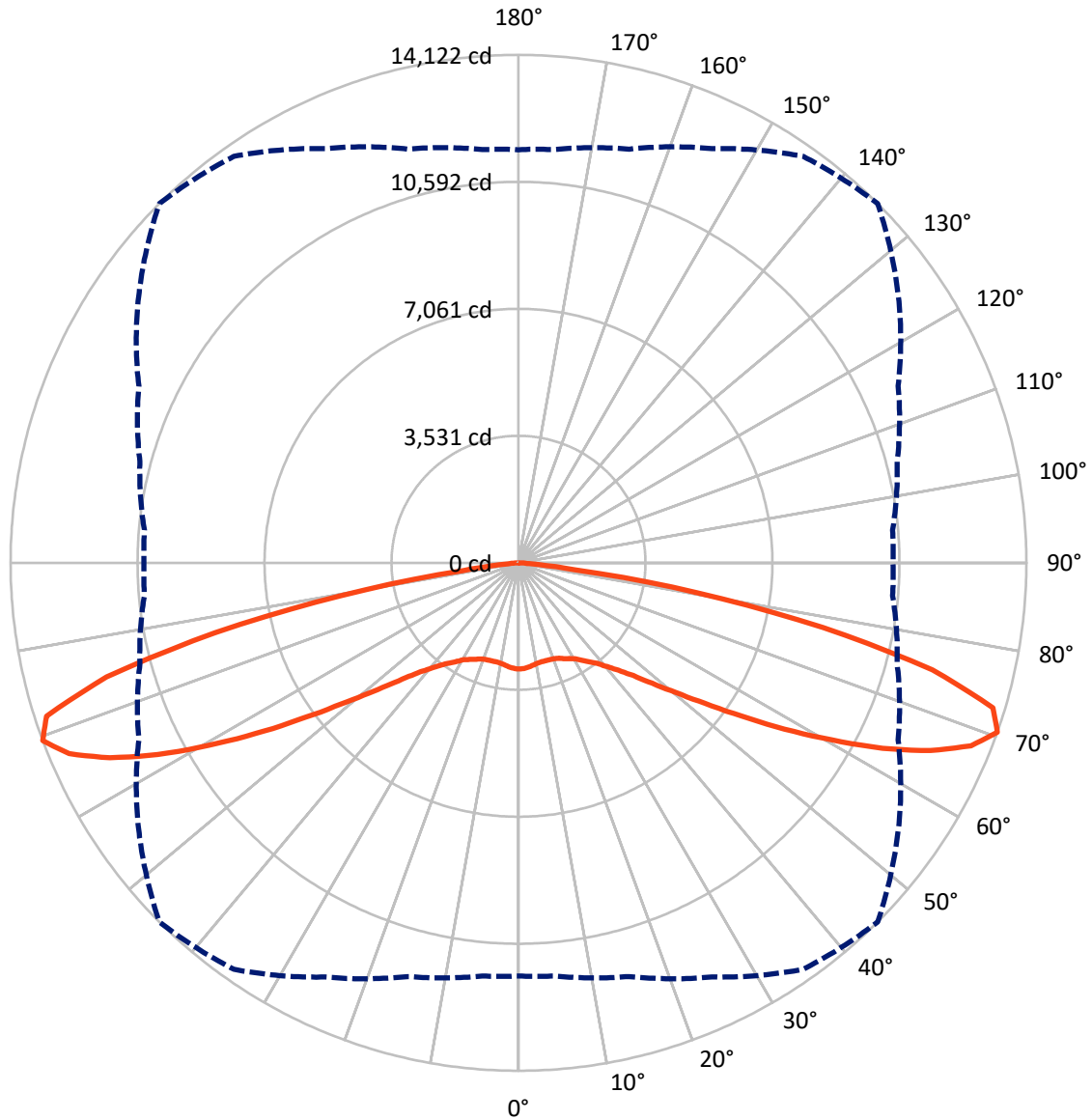
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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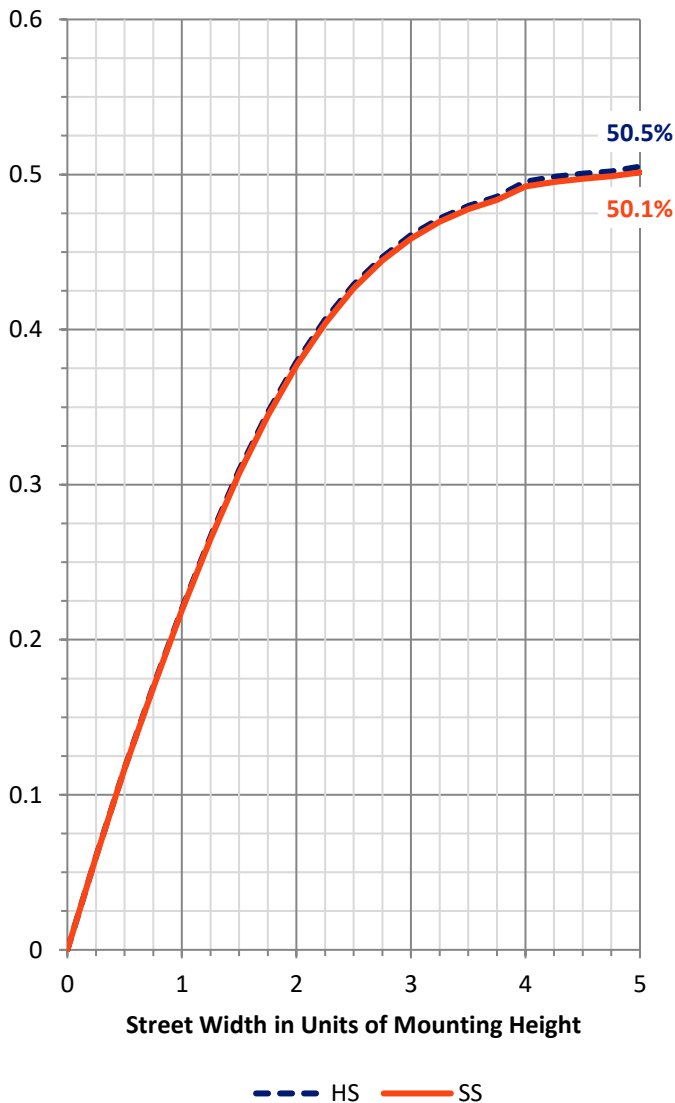
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17442.3 | 0.0 | 17442.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17442.3 | 0.0 | 17442.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 34884.7 | 0.0 | 34884.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 276.2 | 0.8 |
| 10°-20° | 808.6 | 2.3 |
| 20°-30° | 1377.7 | 3.9 |
| 30°-40° | 2135.3 | 6.1 |
| 40°-50° | 3594.1 | 10.3 |
| 50°-60° | 6539.3 | 18.7 |
| 60°-70° | 11070.8 | 31.7 |
| 70°-80° | 8569.2 | 24.6 |
| 80°-90° | 513.5 | 1.5 |
| 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° | 34884.7 | 100.0 |
| 0°-180° | 34884.7 | 100.0 |



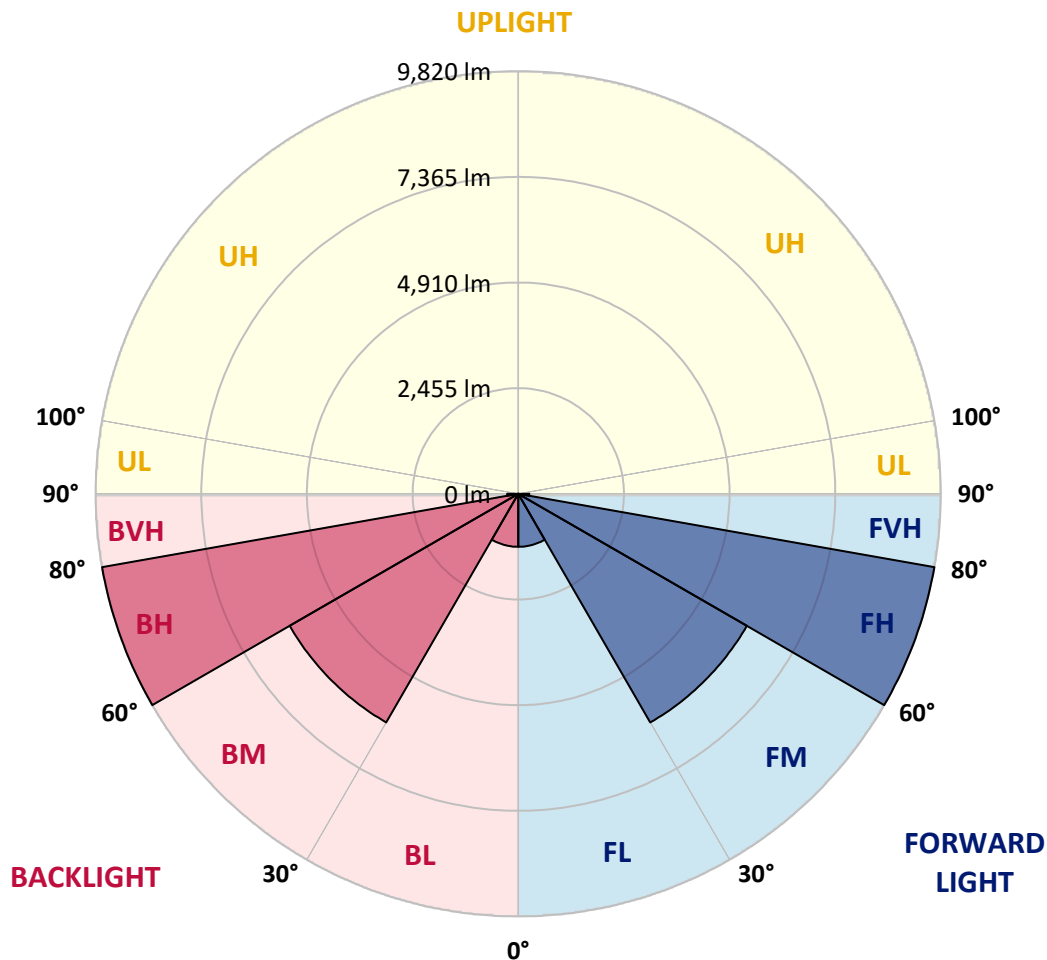
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1231.2 | 3.5 | | | |
| FM (30°-60°) | 6134.4 | 17.6 | | | |
| FH (60°-80°) | 9820.0 | 28.1 | | | G4/12000 |
| FVH (80°-90°) | 256.7 | 0.7 | | | G3/500 |
| BL (0°-30°) | 1231.2 | 3.5 | B3/2500 | | |
| BM (30°-60°) | 6134.4 | 17.6 | B4/8500 | | |
| BH (60°-80°) | 9820.0 | 28.1 | B5 | | G4/12000 |
| BVH (80°-90°) | 256.7 | 0.7 | | | 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° | 2953.4 | 2953.4 | 2953.4 | 2953.4 | 2953.4 | 2953.4 | 2953.4 | 2953.4 | 2953.4 | 2953.4 | 2953.4 |
| 2.5° | 2946.0 | 2947.9 | 2947.9 | 2944.2 | 2942.3 | 2942.3 | 2940.6 | 2940.6 | 2946.0 | 2947.9 | 2949.7 |
| 5° | 2920.3 | 2920.3 | 2920.3 | 2918.4 | 2914.7 | 2914.7 | 2911.0 | 2911.0 | 2912.9 | 2918.4 | 2914.7 |
| 7.5° | 2885.2 | 2888.9 | 2888.9 | 2881.6 | 2876.1 | 2876.1 | 2874.2 | 2876.1 | 2877.9 | 2883.4 | 2881.6 |
| 10° | 2874.2 | 2876.1 | 2866.8 | 2853.9 | 2844.7 | 2839.2 | 2841.1 | 2844.7 | 2853.9 | 2857.6 | 2859.5 |
| 12.5° | 2881.6 | 2881.6 | 2865.0 | 2846.5 | 2830.0 | 2822.6 | 2820.8 | 2833.7 | 2850.2 | 2861.3 | 2865.0 |
| 15° | 2890.8 | 2887.1 | 2866.8 | 2842.8 | 2826.3 | 2824.4 | 2822.6 | 2831.8 | 2855.8 | 2877.9 | 2879.8 |
| 17.5° | 2896.3 | 2894.5 | 2868.7 | 2839.2 | 2830.0 | 2830.0 | 2828.1 | 2835.5 | 2861.3 | 2888.9 | 2890.8 |
| 20° | 2914.7 | 2909.2 | 2879.8 | 2848.4 | 2841.1 | 2844.7 | 2839.2 | 2848.4 | 2876.1 | 2909.2 | 2916.6 |
| 22.5° | 2951.6 | 2946.0 | 2916.6 | 2885.2 | 2881.6 | 2881.6 | 2879.8 | 2888.9 | 2918.4 | 2953.4 | 2959.0 |
| 25° | 2995.8 | 2990.3 | 2962.6 | 2940.6 | 2944.2 | 2951.6 | 2947.9 | 2949.7 | 2973.7 | 3003.1 | 3012.4 |
| 27.5° | 3054.8 | 3045.5 | 3021.5 | 3003.1 | 3014.2 | 3014.2 | 3014.2 | 3012.4 | 3027.1 | 3054.8 | 3063.9 |
| 30° | 3126.6 | 3122.9 | 3097.2 | 3095.3 | 3104.5 | 3095.3 | 3095.3 | 3097.2 | 3099.0 | 3124.7 | 3134.0 |
| 32.5° | 3220.6 | 3213.2 | 3200.3 | 3196.6 | 3222.4 | 3229.8 | 3204.0 | 3180.1 | 3192.9 | 3218.8 | 3224.2 |
| 35° | 3375.4 | 3364.3 | 3345.8 | 3325.6 | 3345.8 | 3380.8 | 3325.6 | 3307.1 | 3340.3 | 3375.4 | 3379.1 |
| 37.5° | 3585.4 | 3579.8 | 3550.4 | 3513.5 | 3511.7 | 3548.5 | 3491.4 | 3489.6 | 3552.2 | 3594.6 | 3600.1 |
| 40° | 3848.8 | 3854.4 | 3817.6 | 3782.5 | 3764.1 | 3793.6 | 3749.3 | 3765.9 | 3826.7 | 3874.7 | 3871.0 |
| 42.5° | 4219.1 | 4198.9 | 4141.8 | 4108.6 | 4088.4 | 4077.3 | 4066.2 | 4092.1 | 4160.2 | 4211.8 | 4252.3 |
| 45° | 4652.2 | 4644.8 | 4572.9 | 4532.4 | 4488.2 | 4471.6 | 4467.9 | 4514.0 | 4596.8 | 4659.5 | 4665.0 |
| 47.5° | 5142.2 | 5125.6 | 5079.6 | 5037.2 | 5020.6 | 5000.3 | 4981.9 | 5016.9 | 5099.8 | 5144.1 | 5156.9 |
| 50° | 5647.1 | 5650.8 | 5650.8 | 5643.4 | 5659.9 | 5663.6 | 5613.8 | 5626.8 | 5672.9 | 5669.2 | 5665.5 |
| 52.5° | 6223.7 | 6244.0 | 6339.8 | 6349.0 | 6428.3 | 6481.7 | 6391.4 | 6337.9 | 6321.4 | 6221.9 | 6229.3 |
| 55° | 6901.8 | 6920.2 | 7063.9 | 7207.6 | 7421.3 | 7511.6 | 7321.8 | 7156.0 | 7038.1 | 6887.0 | 6894.3 |
| 57.5° | 7747.5 | 7756.6 | 7893.0 | 8169.3 | 8508.3 | 8720.2 | 8386.7 | 8058.8 | 7819.3 | 7675.6 | 7618.5 |
| 60° | 8657.6 | 8666.8 | 8865.7 | 9203.0 | 9729.9 | 9987.8 | 9575.1 | 9039.0 | 8736.8 | 8517.6 | 8532.3 |
| 62.5° | 9750.1 | 9787.0 | 9965.7 | 10430.0 | 11069.3 | 11358.5 | 10811.4 | 10094.7 | 9685.6 | 9413.0 | 9424.0 |
| 65° | 10920.0 | 10982.7 | 11178.0 | 11688.4 | 12277.9 | 12589.3 | 11918.7 | 11091.4 | 10582.9 | 10249.4 | 10284.4 |
| 67.5° | 11679.1 | 11734.5 | 12016.3 | 12580.1 | 13315.2 | 13573.2 | 12707.3 | 11743.6 | 11108.0 | 10710.1 | 10636.4 |
| 70° | 11485.7 | 11531.8 | 11907.6 | 12707.3 | 13796.1 | 14122.2 | 12895.1 | 11647.8 | 10899.8 | 10441.0 | 10411.6 |
| 72.5° | 10138.9 | 10043.1 | 10592.1 | 11739.9 | 13247.1 | 13794.3 | 12303.7 | 10638.2 | 9696.7 | 9225.0 | 9169.8 |
| 75° | 6719.3 | 6927.6 | 7738.2 | 9090.5 | 11207.5 | 11885.5 | 10501.8 | 8541.5 | 7356.8 | 6964.4 | 6903.6 |
| 77.5° | 2245.9 | 2406.2 | 3126.6 | 5153.3 | 7640.6 | 8659.4 | 7651.6 | 5586.3 | 3952.0 | 3183.7 | 3198.5 |
| 80° | 595.1 | 587.8 | 760.9 | 1416.8 | 3301.6 | 5015.1 | 3843.3 | 1892.2 | 1035.4 | 749.8 | 711.1 |
| 82.5° | 213.7 | 239.5 | 307.7 | 392.4 | 875.1 | 1558.7 | 1099.9 | 530.6 | 388.8 | 287.5 | 278.2 |
| 85° | 93.9 | 92.1 | 132.6 | 156.6 | 219.2 | 291.1 | 257.9 | 224.8 | 197.1 | 130.8 | 121.6 |
| 87.5° | 20.3 | 20.3 | 31.3 | 24.0 | 38.7 | 38.7 | 47.9 | 57.1 | 59.0 | 38.7 | 31.3 |
| 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)