

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: P316688

Luminaire Tested: **GAN-SA4C-722-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316688
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-6)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA4C-722-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(4) 70 CRI, 2200K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22034 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

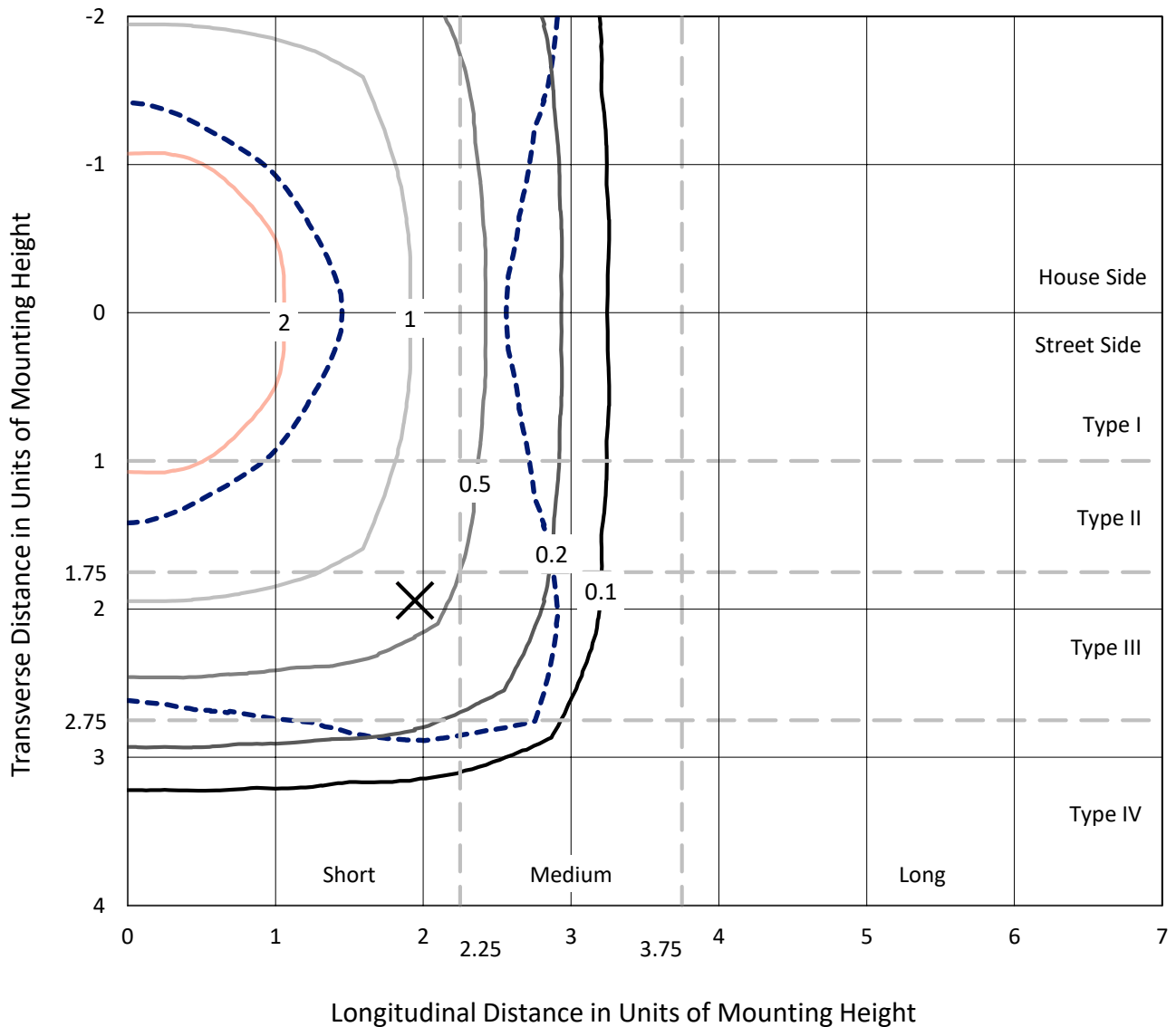
Input Watts (W): 225
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

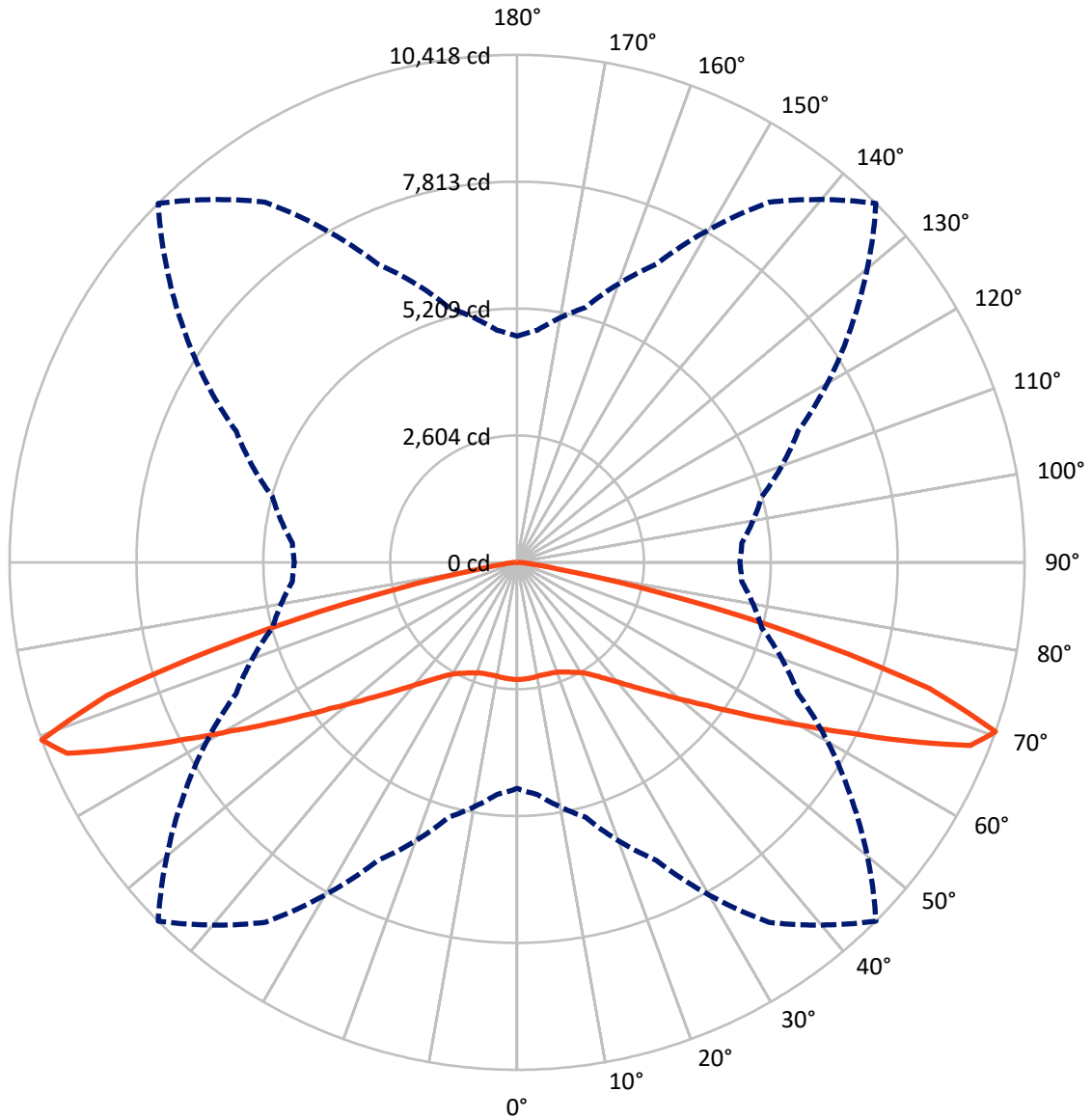
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.9 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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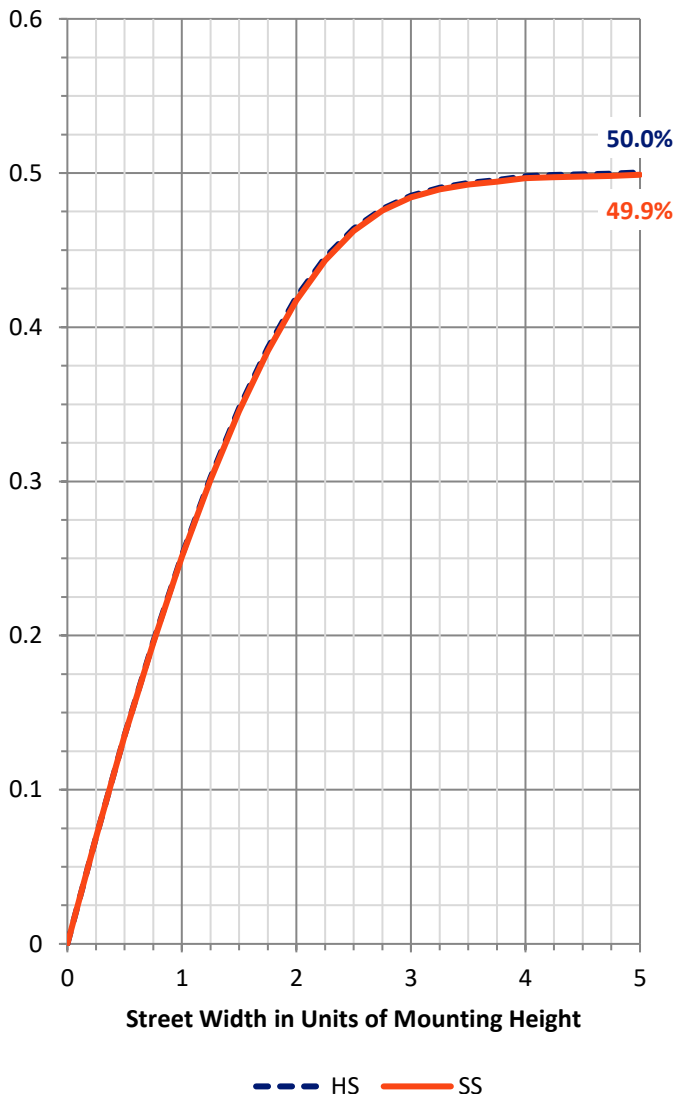
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11017.0 | 0.0 | 11017.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11017.0 | 0.0 | 11017.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 22034.0 | 0.0 | 22034.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 227.9 | 1.0 |
| 10°-20° | 669.1 | 3.0 |
| 20°-30° | 1139.0 | 5.2 |
| 30°-40° | 1806.5 | 8.2 |
| 40°-50° | 2939.7 | 13.3 |
| 50°-60° | 4847.1 | 22.0 |
| 60°-70° | 7115.6 | 32.3 |
| 70°-80° | 3146.5 | 14.3 |
| 80°-90° | 142.5 | 0.6 |
| 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° | 22034.0 | 100.0 |
| 0°-180° | 22034.0 | 100.0 |

Coefficient of Utilization



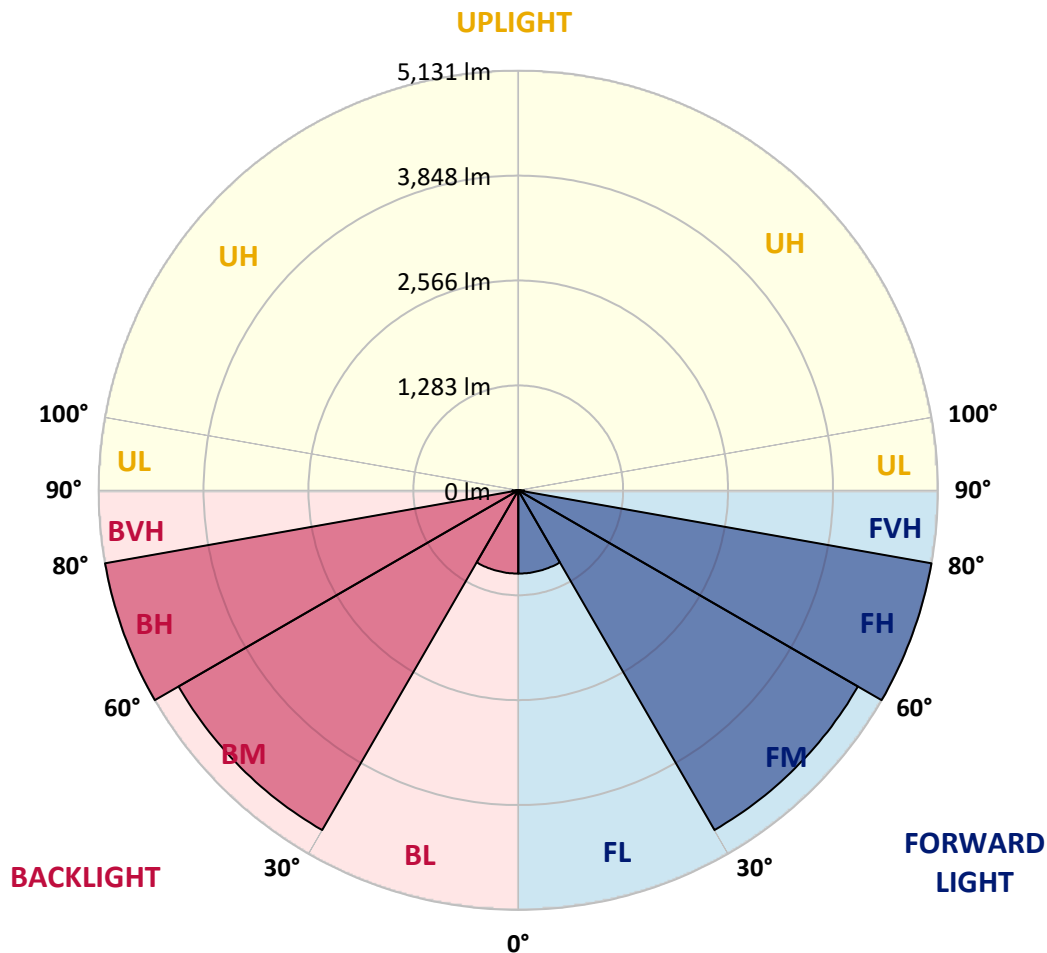
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1018.0 | 4.6 | | | |
| FM (30°-60°) | 4796.6 | 21.8 | | | |
| FH (60°-80°) | 5131.1 | 23.3 | | | G3/7500 |
| FVH (80°-90°) | 71.2 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1018.0 | 4.6 | B3/2500 | | |
| BM (30°-60°) | 4796.6 | 21.8 | B3/5000 | | |
| BH (60°-80°) | 5131.1 | 23.3 | B5 | | G3/7500 |
| BVH (80°-90°) | 71.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|---------|--------|--------|--------|--------|--------|
| 0° | 2406.5 | 2406.5 | 2406.5 | 2406.5 | 2406.5 | 2406.5 | 2406.5 | 2406.5 | 2406.5 | 2406.5 | 2406.5 |
| 2.5° | 2402.8 | 2400.6 | 2405.7 | 2405.0 | 2400.6 | 2401.4 | 2401.4 | 2403.5 | 2403.5 | 2402.1 | 2402.1 |
| 5° | 2394.1 | 2392.6 | 2398.4 | 2398.4 | 2394.1 | 2395.5 | 2397.0 | 2399.2 | 2398.4 | 2397.0 | 2396.2 |
| 7.5° | 2383.1 | 2382.4 | 2388.2 | 2388.2 | 2385.3 | 2386.8 | 2385.3 | 2386.0 | 2384.6 | 2383.1 | 2380.9 |
| 10° | 2364.9 | 2366.3 | 2371.5 | 2372.9 | 2372.9 | 2373.6 | 2372.2 | 2368.5 | 2366.3 | 2364.2 | 2362.0 |
| 12.5° | 2348.1 | 2347.4 | 2354.7 | 2358.3 | 2364.2 | 2370.7 | 2366.3 | 2356.1 | 2351.8 | 2347.4 | 2345.9 |
| 15° | 2337.2 | 2337.9 | 2345.2 | 2351.8 | 2362.0 | 2375.8 | 2370.7 | 2354.7 | 2345.9 | 2340.8 | 2339.4 |
| 17.5° | 2335.0 | 2336.4 | 2345.9 | 2357.6 | 2368.5 | 2383.8 | 2380.9 | 2364.9 | 2350.3 | 2340.8 | 2338.6 |
| 20° | 2340.1 | 2340.8 | 2355.4 | 2372.2 | 2391.1 | 2405.7 | 2399.2 | 2381.7 | 2362.0 | 2347.4 | 2343.7 |
| 22.5° | 2349.6 | 2352.5 | 2370.7 | 2397.0 | 2426.1 | 2445.8 | 2437.8 | 2407.9 | 2377.3 | 2359.1 | 2354.0 |
| 25° | 2379.5 | 2380.2 | 2405.0 | 2440.7 | 2475.7 | 2498.3 | 2488.9 | 2446.6 | 2407.2 | 2386.8 | 2380.2 |
| 27.5° | 2441.5 | 2443.6 | 2468.4 | 2510.0 | 2539.9 | 2554.5 | 2548.7 | 2514.4 | 2480.8 | 2459.0 | 2461.1 |
| 30° | 2531.2 | 2534.1 | 2561.8 | 2607.7 | 2626.0 | 2629.6 | 2628.1 | 2612.1 | 2581.5 | 2552.3 | 2554.5 |
| 32.5° | 2640.5 | 2642.0 | 2679.2 | 2720.8 | 2735.3 | 2738.3 | 2735.3 | 2720.8 | 2684.3 | 2644.9 | 2647.1 |
| 35° | 2781.3 | 2785.7 | 2821.4 | 2861.5 | 2873.2 | 2879.0 | 2873.9 | 2854.9 | 2817.0 | 2778.4 | 2776.9 |
| 37.5° | 2954.8 | 2955.6 | 2992.8 | 3034.3 | 3048.9 | 3050.4 | 3044.5 | 3032.1 | 2984.7 | 2949.7 | 2947.5 |
| 40° | 3156.1 | 3159.0 | 3202.8 | 3247.3 | 3253.1 | 3246.5 | 3254.5 | 3247.3 | 3198.4 | 3158.3 | 3164.9 |
| 42.5° | 3401.1 | 3407.7 | 3460.2 | 3503.9 | 3487.2 | 3483.5 | 3488.6 | 3490.8 | 3451.4 | 3402.6 | 3398.2 |
| 45° | 3686.3 | 3692.1 | 3757.7 | 3792.7 | 3781.8 | 3757.7 | 3767.9 | 3785.4 | 3730.7 | 3670.2 | 3676.0 |
| 47.5° | 4011.5 | 4026.1 | 4096.1 | 4128.9 | 4101.9 | 4069.1 | 4088.8 | 4115.0 | 4050.9 | 3975.8 | 3972.1 |
| 50° | 4373.2 | 4391.4 | 4484.8 | 4530.7 | 4503.7 | 4443.2 | 4476.0 | 4493.5 | 4400.9 | 4303.9 | 4295.9 |
| 52.5° | 4758.9 | 4777.2 | 4894.6 | 4989.4 | 4971.9 | 4877.8 | 4923.8 | 4905.5 | 4799.1 | 4668.5 | 4658.3 |
| 55° | 5195.8 | 5203.0 | 5329.9 | 5483.1 | 5500.6 | 5431.3 | 5428.4 | 5398.5 | 5241.0 | 5090.0 | 5082.7 |
| 57.5° | 5645.0 | 5650.1 | 5814.1 | 5995.0 | 6077.4 | 6077.4 | 5995.7 | 5932.3 | 5723.0 | 5548.0 | 5529.7 |
| 60° | 6129.9 | 6148.1 | 6329.7 | 6575.5 | 6768.0 | 6824.9 | 6680.5 | 6507.6 | 6280.1 | 6066.5 | 6045.3 |
| 62.5° | 6561.6 | 6582.8 | 6860.6 | 7226.7 | 7535.9 | 7743.0 | 7390.0 | 7108.5 | 6694.3 | 6351.6 | 6311.5 |
| 65° | 6616.3 | 6673.2 | 7077.9 | 7740.8 | 8432.8 | 8846.3 | 8169.6 | 7476.1 | 6721.3 | 6245.1 | 6204.3 |
| 67.5° | 6042.4 | 6138.6 | 6685.6 | 7717.4 | 9147.4 | 10034.9 | 8667.6 | 7266.0 | 6237.1 | 5710.6 | 5665.4 |
| 70° | 4643.0 | 4783.0 | 5413.8 | 6750.5 | 9024.2 | 10417.8 | 8355.5 | 6361.1 | 5200.1 | 4633.5 | 4570.1 |
| 72.5° | 2547.2 | 2604.8 | 3172.1 | 4622.6 | 7234.7 | 8852.8 | 6969.2 | 4703.5 | 3448.5 | 2806.1 | 2699.6 |
| 75° | 808.0 | 828.4 | 1117.2 | 1891.6 | 4092.4 | 5863.7 | 4427.1 | 2308.7 | 1271.0 | 937.1 | 926.1 |
| 77.5° | 358.8 | 361.0 | 404.0 | 552.0 | 1409.6 | 2970.9 | 1693.3 | 628.6 | 433.2 | 378.5 | 390.9 |
| 80° | 226.8 | 226.8 | 250.1 | 273.5 | 383.6 | 862.7 | 458.0 | 299.0 | 255.2 | 237.0 | 242.1 |
| 82.5° | 108.7 | 120.3 | 162.6 | 175.0 | 210.7 | 290.2 | 234.8 | 195.4 | 170.6 | 126.9 | 118.1 |
| 85° | 71.5 | 59.8 | 102.8 | 115.9 | 122.5 | 139.3 | 136.4 | 129.1 | 111.6 | 63.4 | 70.7 |
| 87.5° | 32.1 | 30.6 | 53.2 | 48.9 | 45.9 | 35.0 | 52.5 | 64.9 | 62.7 | 31.4 | 31.4 |
| 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)