

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: P316669

Luminaire Tested: **GAN-SA5A-722-U-5MQ**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P316669
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-SA5A-722-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(5) 70 CRI, 2200K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17987 lumens
Efficiency: N/A
Efficacy: 111.0 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

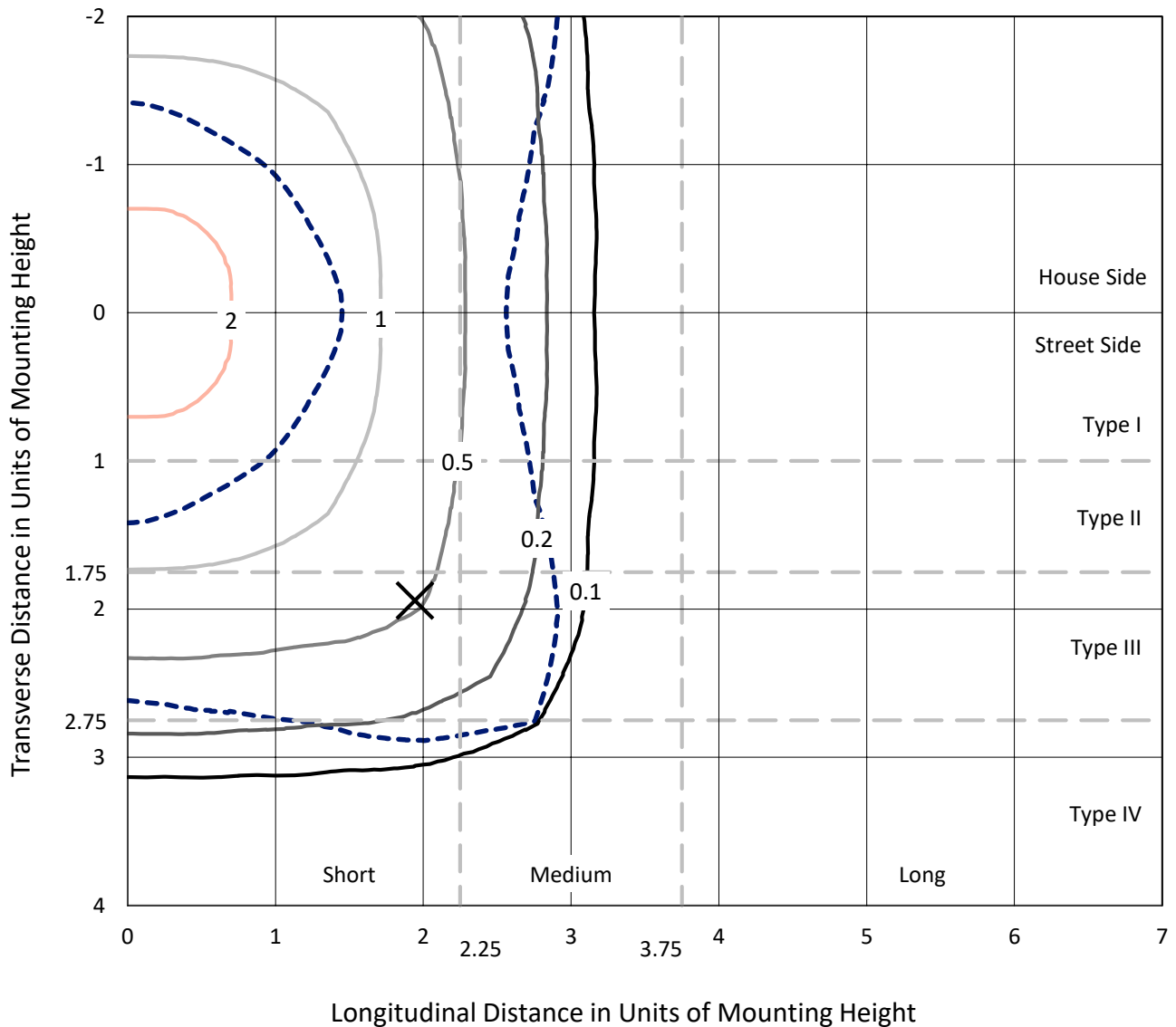
Input Watts (W): 162
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

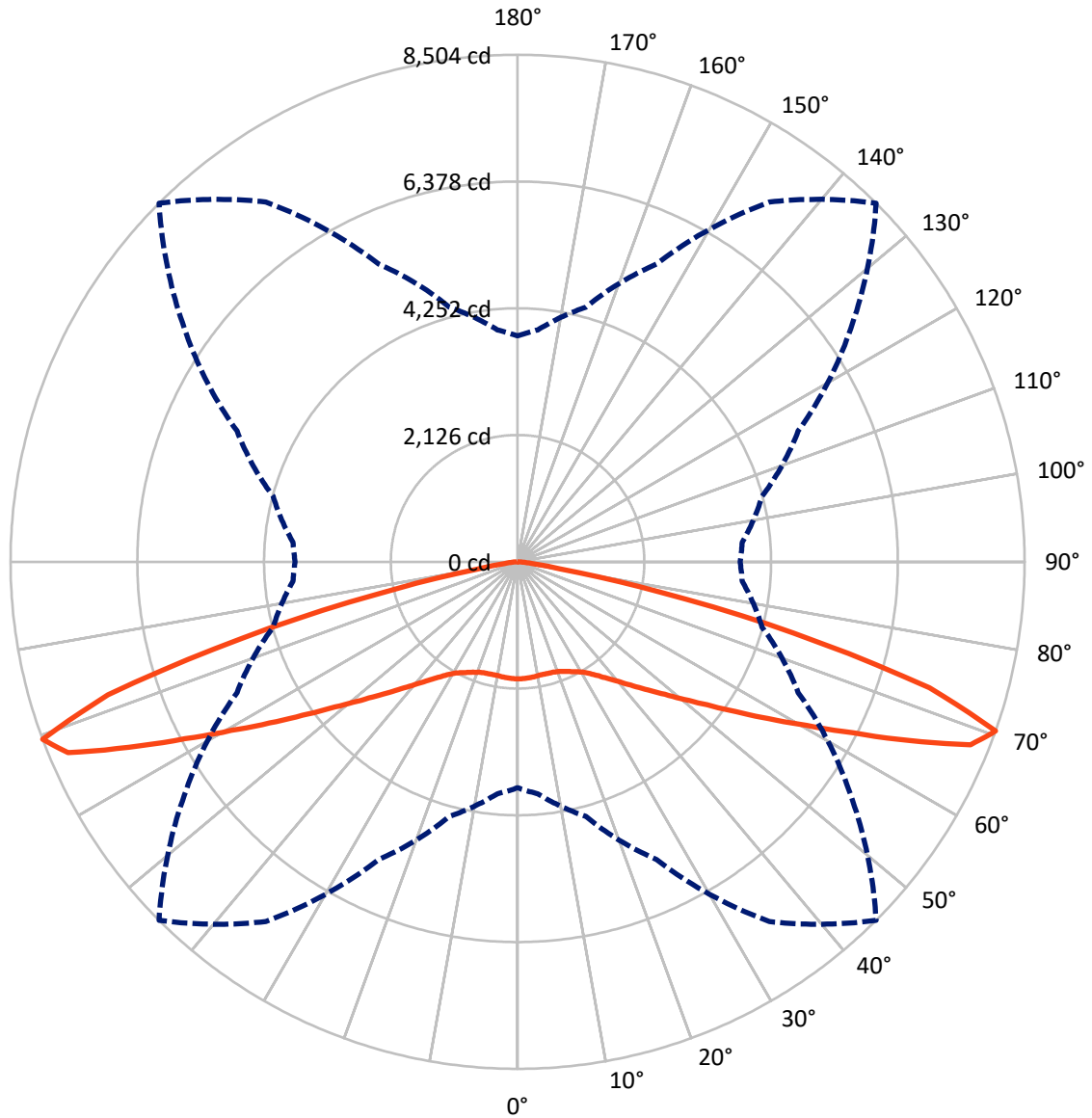
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 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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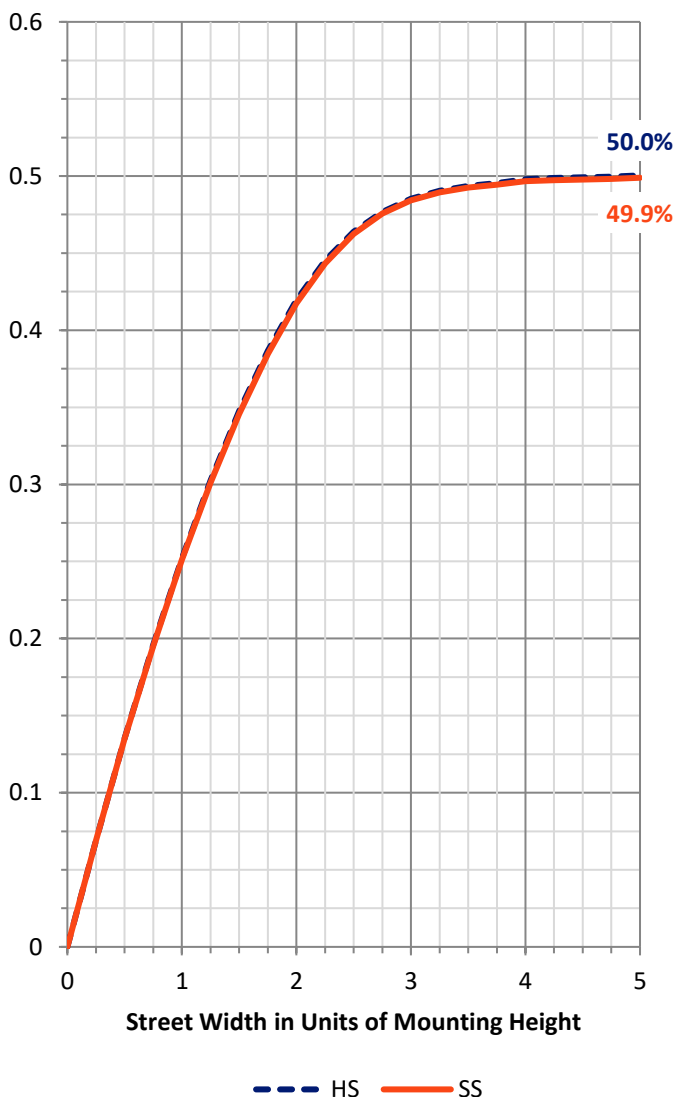
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8993.5 | 0.0 | 8993.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8993.5 | 0.0 | 8993.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 17987.0 | 0.0 | 17987.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 186.1 | 1.0 |
| 10°-20° | 546.2 | 3.0 |
| 20°-30° | 929.8 | 5.2 |
| 30°-40° | 1474.7 | 8.2 |
| 40°-50° | 2399.8 | 13.3 |
| 50°-60° | 3956.8 | 22.0 |
| 60°-70° | 5808.7 | 32.3 |
| 70°-80° | 2568.6 | 14.3 |
| 80°-90° | 116.3 | 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° | 17987.0 | 100.0 |
| 0°-180° | 17987.0 | 100.0 |

Coefficient of Utilization



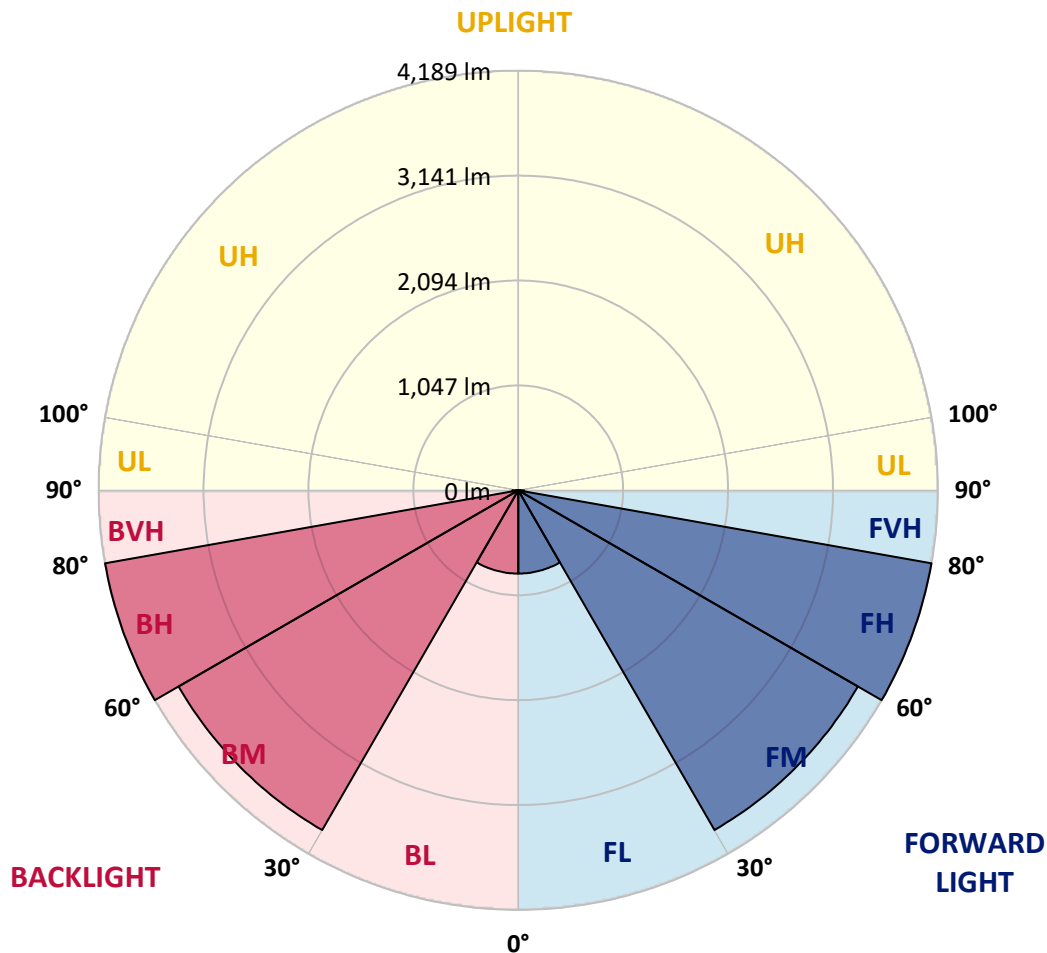
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 831.0 | 4.6 | | | |
| FM (30°-60°) | 3915.6 | 21.8 | | | |
| FH (60°-80°) | 4188.6 | 23.3 | | | G2/5000 |
| FVH (80°-90°) | 58.2 | 0.3 | | | G1/100 |
| BL (0°-30°) | 831.0 | 4.6 | B2/1000 | | |
| BM (30°-60°) | 3915.6 | 21.8 | B3/5000 | | |
| BH (60°-80°) | 4188.6 | 23.3 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 58.2 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1964.5 | 1964.5 | 1964.5 | 1964.5 | 1964.5 | 1964.5 | 1964.5 | 1964.5 | 1964.5 | 1964.5 | 1964.5 |
| 2.5° | 1961.5 | 1959.7 | 1963.9 | 1963.3 | 1959.7 | 1960.3 | 1960.3 | 1962.1 | 1962.1 | 1960.9 | 1960.9 |
| 5° | 1954.3 | 1953.1 | 1957.9 | 1957.9 | 1954.3 | 1955.5 | 1956.7 | 1958.5 | 1957.9 | 1956.7 | 1956.1 |
| 7.5° | 1945.4 | 1944.8 | 1949.6 | 1949.6 | 1947.2 | 1948.4 | 1947.2 | 1947.8 | 1946.6 | 1945.4 | 1943.6 |
| 10° | 1930.5 | 1931.7 | 1935.9 | 1937.1 | 1937.1 | 1937.7 | 1936.5 | 1933.5 | 1931.7 | 1929.9 | 1928.1 |
| 12.5° | 1916.8 | 1916.2 | 1922.2 | 1925.2 | 1929.9 | 1935.3 | 1931.7 | 1923.4 | 1919.8 | 1916.2 | 1915.1 |
| 15° | 1907.9 | 1908.5 | 1914.5 | 1919.8 | 1928.1 | 1939.5 | 1935.3 | 1922.2 | 1915.1 | 1910.9 | 1909.7 |
| 17.5° | 1906.1 | 1907.3 | 1915.1 | 1924.6 | 1933.5 | 1946.0 | 1943.6 | 1930.5 | 1918.6 | 1910.9 | 1909.1 |
| 20° | 1910.3 | 1910.9 | 1922.8 | 1936.5 | 1952.0 | 1963.9 | 1958.5 | 1944.2 | 1928.1 | 1916.2 | 1913.3 |
| 22.5° | 1918.0 | 1920.4 | 1935.3 | 1956.7 | 1980.5 | 1996.6 | 1990.1 | 1965.7 | 1940.6 | 1925.8 | 1921.6 |
| 25° | 1942.4 | 1943.0 | 1963.3 | 1992.4 | 2021.0 | 2039.5 | 2031.7 | 1997.2 | 1965.1 | 1948.4 | 1943.0 |
| 27.5° | 1993.0 | 1994.8 | 2015.1 | 2049.0 | 2073.4 | 2085.3 | 2080.5 | 2052.6 | 2025.2 | 2007.3 | 2009.1 |
| 30° | 2066.3 | 2068.6 | 2091.3 | 2128.8 | 2143.6 | 2146.6 | 2145.4 | 2132.3 | 2107.3 | 2083.5 | 2085.3 |
| 32.5° | 2155.5 | 2156.7 | 2187.1 | 2221.0 | 2232.9 | 2235.3 | 2232.9 | 2221.0 | 2191.3 | 2159.1 | 2160.9 |
| 35° | 2270.4 | 2274.0 | 2303.2 | 2335.9 | 2345.4 | 2350.2 | 2346.0 | 2330.6 | 2299.6 | 2268.1 | 2266.9 |
| 37.5° | 2412.1 | 2412.7 | 2443.1 | 2477.0 | 2488.9 | 2490.1 | 2485.3 | 2475.2 | 2436.5 | 2408.0 | 2406.2 |
| 40° | 2576.4 | 2578.8 | 2614.5 | 2650.8 | 2655.6 | 2650.2 | 2656.8 | 2650.8 | 2610.9 | 2578.2 | 2583.6 |
| 42.5° | 2776.4 | 2781.8 | 2824.7 | 2860.4 | 2846.7 | 2843.7 | 2847.9 | 2849.7 | 2817.5 | 2777.6 | 2774.1 |
| 45° | 3009.2 | 3014.0 | 3067.5 | 3096.1 | 3087.2 | 3067.5 | 3075.9 | 3090.2 | 3045.5 | 2996.1 | 3000.9 |
| 47.5° | 3274.7 | 3286.6 | 3343.7 | 3370.5 | 3348.5 | 3321.7 | 3337.8 | 3359.2 | 3306.8 | 3245.5 | 3242.6 |
| 50° | 3570.0 | 3584.8 | 3661.0 | 3698.5 | 3676.5 | 3627.1 | 3653.9 | 3668.2 | 3592.6 | 3513.4 | 3506.9 |
| 52.5° | 3884.9 | 3899.8 | 3995.6 | 4073.0 | 4058.7 | 3981.9 | 4019.4 | 4004.5 | 3917.6 | 3811.1 | 3802.7 |
| 55° | 4241.4 | 4247.4 | 4351.0 | 4476.0 | 4490.3 | 4433.7 | 4431.3 | 4406.9 | 4278.4 | 4155.1 | 4149.2 |
| 57.5° | 4608.1 | 4612.3 | 4746.3 | 4893.9 | 4961.2 | 4961.2 | 4894.5 | 4842.7 | 4671.8 | 4529.0 | 4514.1 |
| 60° | 5004.0 | 5018.9 | 5167.1 | 5367.7 | 5524.9 | 5571.3 | 5453.5 | 5312.4 | 5126.6 | 4952.2 | 4935.0 |
| 62.5° | 5356.4 | 5373.7 | 5600.5 | 5899.3 | 6151.7 | 6320.8 | 6032.7 | 5802.9 | 5464.8 | 5185.0 | 5152.2 |
| 65° | 5401.1 | 5447.5 | 5777.9 | 6319.0 | 6883.9 | 7221.5 | 6669.0 | 6102.9 | 5486.8 | 5098.1 | 5064.7 |
| 67.5° | 4932.6 | 5011.2 | 5457.6 | 6300.0 | 7467.3 | 8191.8 | 7075.6 | 5931.5 | 5091.5 | 4661.7 | 4624.8 |
| 70° | 3790.2 | 3904.5 | 4419.4 | 5510.6 | 7366.7 | 8504.3 | 6820.8 | 5192.7 | 4245.0 | 3782.5 | 3730.7 |
| 72.5° | 2079.4 | 2126.4 | 2589.5 | 3773.5 | 5905.9 | 7226.8 | 5689.2 | 3839.6 | 2815.1 | 2290.7 | 2203.8 |
| 75° | 659.6 | 676.3 | 912.0 | 1544.2 | 3340.8 | 4786.7 | 3614.0 | 1884.7 | 1037.6 | 764.9 | 756.0 |
| 77.5° | 292.9 | 294.7 | 329.8 | 450.6 | 1150.7 | 2425.2 | 1382.3 | 513.1 | 353.6 | 309.0 | 319.1 |
| 80° | 185.1 | 185.1 | 204.2 | 223.2 | 313.1 | 704.2 | 373.8 | 244.1 | 208.4 | 193.5 | 197.6 |
| 82.5° | 88.7 | 98.2 | 132.7 | 142.9 | 172.0 | 236.9 | 191.7 | 159.5 | 139.3 | 103.6 | 96.4 |
| 85° | 58.3 | 48.8 | 83.9 | 94.7 | 100.0 | 113.7 | 111.3 | 105.4 | 91.1 | 51.8 | 57.7 |
| 87.5° | 26.2 | 25.0 | 43.5 | 39.9 | 37.5 | 28.6 | 42.9 | 53.0 | 51.2 | 25.6 | 25.6 |
| 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)