Cooper Lighting Solutions Photometric Lab
1121 Highway 74 South
Peachtree City, GA 30269

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: P316328

Luminaire Tested: **GAN-SA4C-830-U-5WQ**

Issue Date: 3/3/2020

Report Generated By E0585644

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Scaled Data Report

**Test Information**

| | |
|---|---|
| Test Method: | LM-79-08 |
| Report Number: | P316328 |
| | 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-SA4C-830-U-5WQ |
| Description: | GALLEON AREA AND ROADWAY LUMINAIRE |
| | (4) 80 CRI, 3000K, 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: | 23881 lumens |
| Efficiency: | N/A |
| Efficacy: | 106.1 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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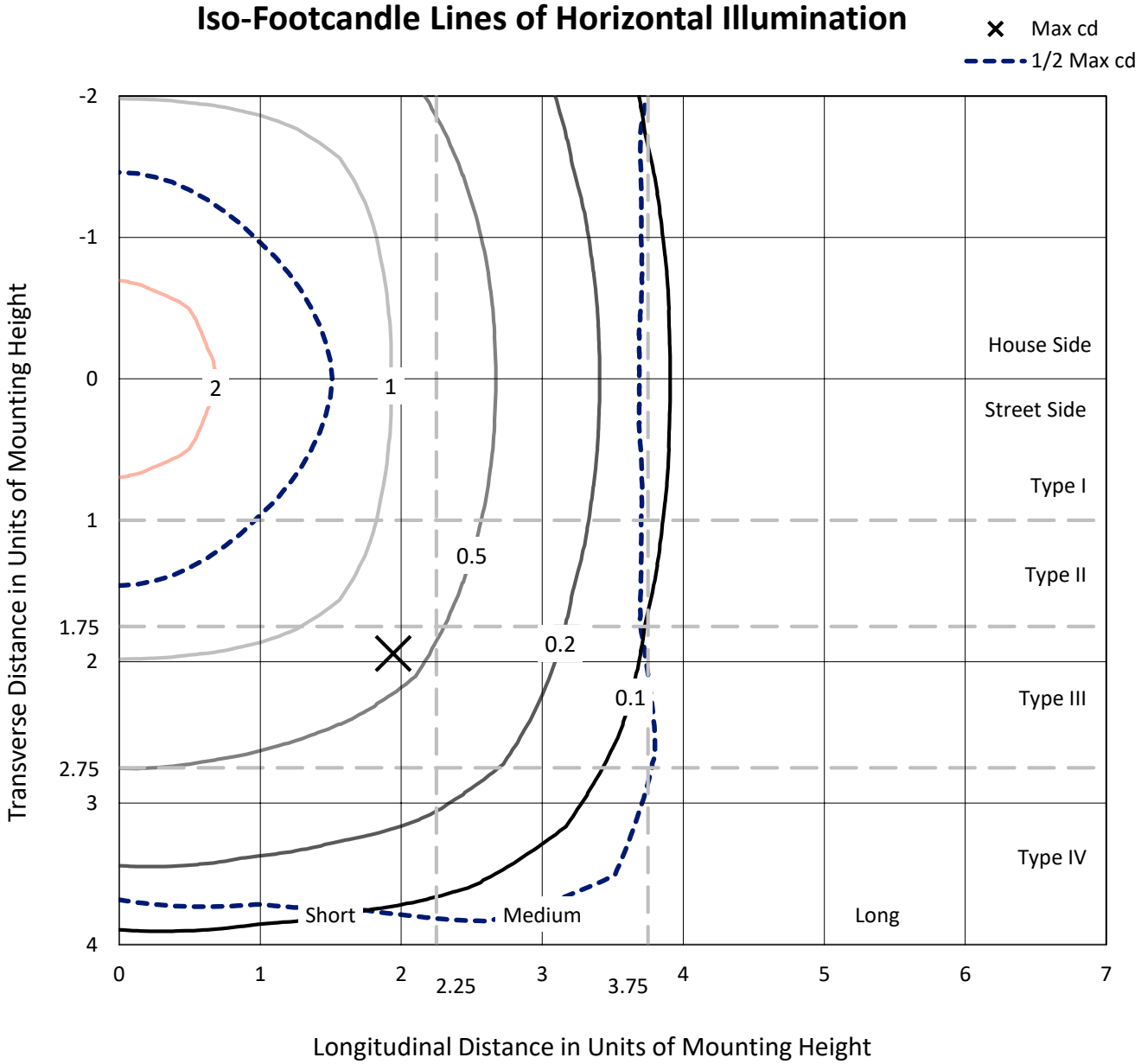
## Iso-Footcandle Lines of Horizontal Illumination




Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type V - Short - N/A

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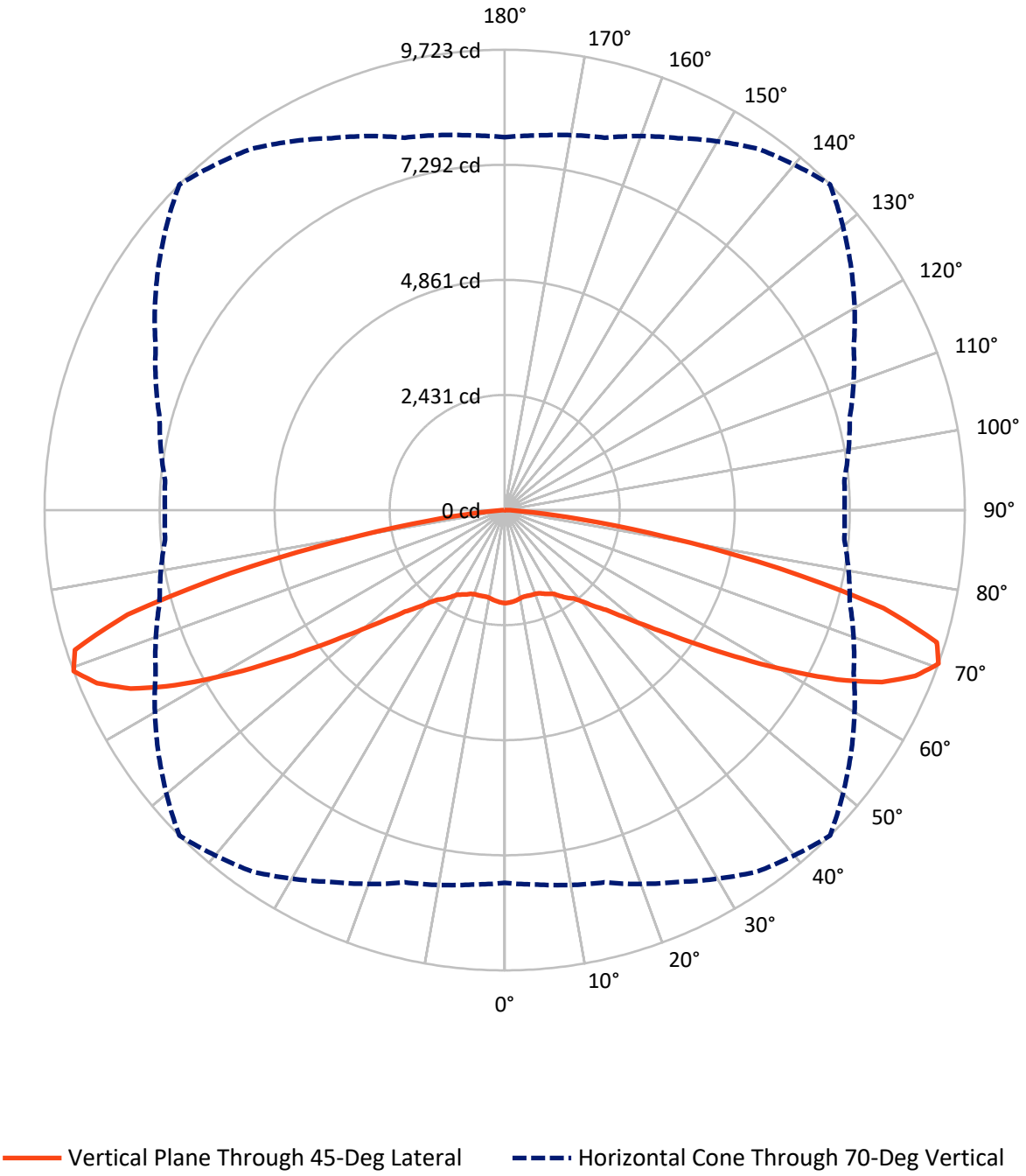
## Luminous Intensity Polar Plot



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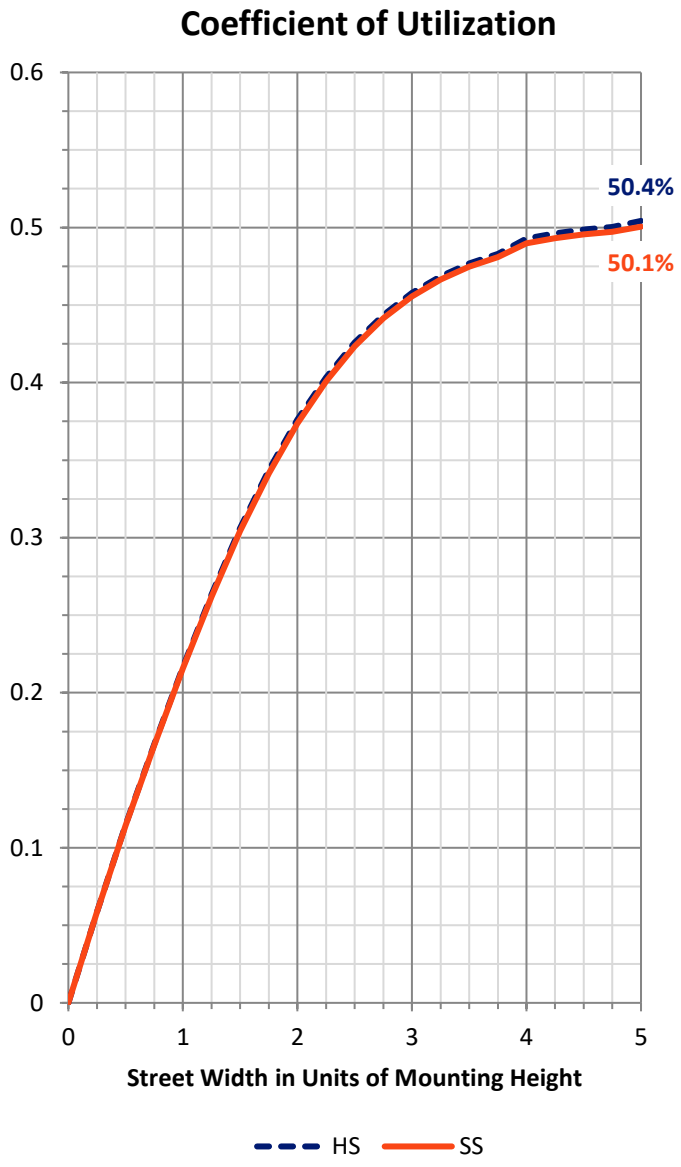
**FLUX DISTRIBUTION:**

| | | Downward | Upward | Total |
|---|---|---|---|---|
| **House Side** | Lumens | 11940.5 | 0.0 | 11940.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| **Street Side** | Lumens | 11940.5 | 0.0 | 11940.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| **Total** | Lumens | 23881.0 | 0.0 | 23881.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

**ZONAL LUMENS:**

| Zone | Lumens | % Fixture |
|---|---|---|
| 0°-10° | 183.4 | 0.8 |
| 10°-20° | 535.8 | 2.2 |
| 20°-30° | 913.6 | 3.8 |
| 30°-40° | 1427.5 | 6.0 |
| 40°-50° | 2419.3 | 10.1 |
| 50°-60° | 4411.7 | 18.5 |
| 60°-70° | 7595.0 | 31.8 |
| 70°-80° | 5953.3 | 24.9 |
| 80°-90° | 441.4 | 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° | 23881.0 | 100.0 |
| 0°-180° | 23881.0 | 100.0 |



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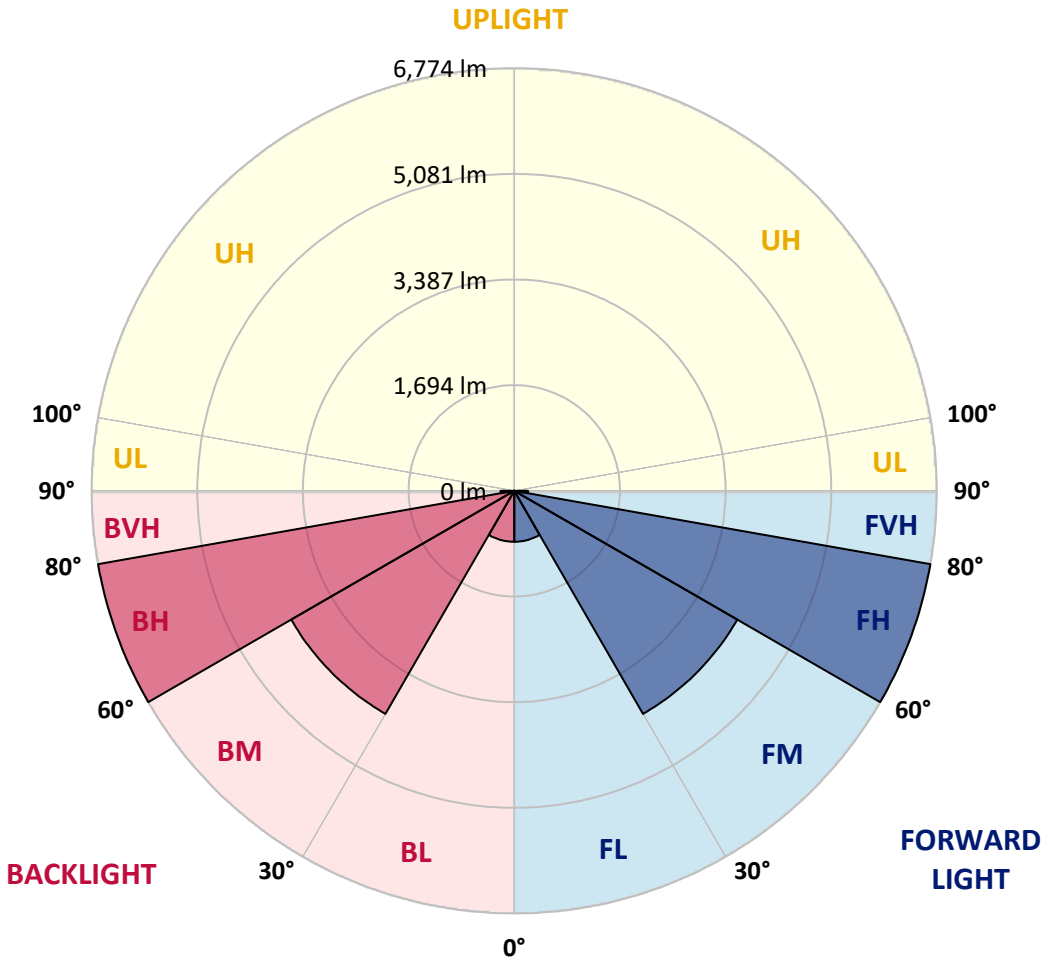
## LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit B | U | G |
|---|---|---|---|---|---|---|
| FL | (0°-30°) | 816.4 | 3.4 | | | |
| FM | (30°-60°) | 4129.2 | 17.3 | | | |
| FH | (60°-80°) | 6774.2 | 28.4 | | | G3/7500 |
| FVH | (80°-90°) | 220.7 | 0.9 | | | G2/225 |
| BL | (0°-30°) | 816.4 | 3.4 | B2/1000 | | |
| BM | (30°-60°) | 4129.2 | 17.3 | B3/5000 | | |
| BH | (60°-80°) | 6774.2 | 28.4 | B5 | | G3/7500 |
| BVH | (80°-90°) | 220.7 | 0.9 | | | G2/225 |
| 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° | 1965.4 | 1965.4 | 1965.4 | 1965.4 | 1965.4 | 1965.4 | 1965.4 | 1965.4 | 1965.4 | 1965.4 | 1965.4 |
| 2.5° | 1956.7 | 1959.1 | 1956.7 | 1958.3 | 1954.4 | 1955.9 | 1955.9 | 1955.9 | 1955.1 | 1955.9 | 1954.4 |
| 5° | 1939.3 | 1940.9 | 1937.8 | 1939.3 | 1937.0 | 1939.3 | 1940.1 | 1939.3 | 1937.8 | 1938.6 | 1935.4 |
| 7.5° | 1913.3 | 1914.9 | 1912.5 | 1914.9 | 1911.7 | 1915.6 | 1914.9 | 1912.5 | 1910.1 | 1910.1 | 1907.0 |
| 10° | 1899.1 | 1899.8 | 1893.5 | 1891.2 | 1884.0 | 1885.6 | 1888.0 | 1890.4 | 1892.7 | 1897.5 | 1896.7 |
| 12.5° | 1899.8 | 1899.8 | 1890.4 | 1880.1 | 1869.8 | 1872.2 | 1876.1 | 1884.8 | 1894.3 | 1903.0 | 1903.8 |
| 15° | 1907.7 | 1907.0 | 1892.7 | 1876.1 | 1869.0 | 1876.1 | 1878.5 | 1884.0 | 1899.1 | 1914.1 | 1914.9 |
| 17.5° | 1913.3 | 1913.3 | 1891.2 | 1872.2 | 1871.4 | 1882.5 | 1881.7 | 1884.0 | 1900.6 | 1922.8 | 1923.5 |
| 20° | 1923.5 | 1923.5 | 1895.1 | 1874.6 | 1874.6 | 1886.4 | 1887.2 | 1891.2 | 1907.7 | 1932.2 | 1936.2 |
| 22.5° | 1946.5 | 1947.2 | 1917.2 | 1900.6 | 1902.2 | 1909.3 | 1911.7 | 1918.0 | 1933.0 | 1959.9 | 1964.6 |
| 25° | 1978.8 | 1980.4 | 1949.6 | 1940.1 | 1945.7 | 1959.1 | 1957.5 | 1962.2 | 1978.8 | 2004.9 | 2009.6 |
| 27.5° | 2023.9 | 2019.9 | 1991.5 | 1987.5 | 1993.1 | 2002.5 | 2001.7 | 2002.5 | 2016.0 | 2039.7 | 2045.2 |
| 30° | 2082.3 | 2080.7 | 2060.2 | 2062.6 | 2060.2 | 2057.0 | 2057.8 | 2064.2 | 2071.3 | 2090.2 | 2095.8 |
| 32.5° | 2139.2 | 2140.8 | 2128.1 | 2140.0 | 2157.4 | 2169.2 | 2151.0 | 2133.7 | 2125.8 | 2136.0 | 2140.8 |
| 35° | 2241.9 | 2245.8 | 2226.1 | 2218.2 | 2241.9 | 2276.7 | 2225.3 | 2196.9 | 2212.7 | 2226.1 | 2230.0 |
| 37.5° | 2416.5 | 2418.8 | 2385.7 | 2354.1 | 2336.7 | 2369.9 | 2318.5 | 2320.9 | 2376.2 | 2401.5 | 2400.7 |
| 40° | 2615.5 | 2616.3 | 2594.2 | 2566.6 | 2536.5 | 2544.4 | 2523.9 | 2530.2 | 2566.6 | 2589.5 | 2595.8 |
| 42.5° | 2852.5 | 2850.2 | 2815.4 | 2775.9 | 2767.2 | 2775.1 | 2740.4 | 2735.6 | 2777.5 | 2818.6 | 2819.4 |
| 45° | 3159.8 | 3154.3 | 3109.3 | 3065.8 | 3024.0 | 3006.6 | 2997.9 | 3020.8 | 3078.5 | 3116.4 | 3117.2 |
| 47.5° | 3490.8 | 3475.8 | 3452.1 | 3417.3 | 3381.0 | 3363.6 | 3349.4 | 3360.5 | 3402.3 | 3417.3 | 3418.9 |
| 50° | 3831.3 | 3834.4 | 3839.2 | 3825.8 | 3812.3 | 3806.8 | 3769.7 | 3748.3 | 3761.0 | 3733.3 | 3729.4 |
| 52.5° | 4235.0 | 4241.3 | 4287.1 | 4325.8 | 4348.7 | 4360.6 | 4290.2 | 4216.8 | 4175.7 | 4122.0 | 4106.2 |
| 55° | 4711.3 | 4721.6 | 4788.7 | 4896.1 | 5006.7 | 5065.2 | 4938.0 | 4800.6 | 4673.4 | 4573.1 | 4540.7 |
| 57.5° | 5242.1 | 5260.3 | 5352.7 | 5558.9 | 5785.6 | 5923.9 | 5709.0 | 5459.4 | 5213.7 | 5069.1 | 5043.9 |
| 60° | 5864.6 | 5882.0 | 6010.0 | 6305.4 | 6672.8 | 6880.5 | 6555.1 | 6146.6 | 5840.9 | 5702.7 | 5656.1 |
| 62.5° | 6605.6 | 6607.2 | 6764.4 | 7109.6 | 7594.6 | 7883.8 | 7443.0 | 6897.1 | 6581.9 | 6415.2 | 6370.2 |
| 65° | 7402.7 | 7406.6 | 7569.4 | 7942.2 | 8443.8 | 8758.2 | 8260.6 | 7691.8 | 7306.3 | 7060.6 | 7025.9 |
| 67.5° | 7965.9 | 7982.5 | 8153.9 | 8602.6 | 9071.9 | 9355.4 | 8840.4 | 8197.4 | 7751.8 | 7458.8 | 7429.5 |
| 70° | 7875.9 | 7940.6 | 8142.1 | 8665.8 | 9318.3 | 9722.8 | 8934.4 | 8137.3 | 7549.6 | 7203.6 | 7179.1 |
| 72.5° | 6868.7 | 6992.7 | 7261.3 | 7948.5 | 8992.1 | 9549.0 | 8421.7 | 7288.1 | 6623.0 | 6328.3 | 6284.1 |
| 75° | 4677.3 | 4878.8 | 5284.0 | 6275.4 | 7682.3 | 8267.7 | 7089.9 | 5810.9 | 5185.3 | 4777.7 | 4747.6 |
| 77.5° | 2085.5 | 2131.3 | 2644.8 | 3786.3 | 5301.4 | 5937.3 | 5151.3 | 3801.3 | 2853.3 | 2275.9 | 2154.2 |
| 80° | 581.4 | 588.5 | 785.2 | 1410.1 | 2653.5 | 3488.4 | 2848.6 | 1481.2 | 832.6 | 586.9 | 553.0 |
| 82.5° | 184.8 | 200.6 | 244.9 | 365.7 | 891.9 | 1591.8 | 915.6 | 395.0 | 281.2 | 224.3 | 202.2 |
| 85° | 90.1 | 89.3 | 124.0 | 148.5 | 227.5 | 352.3 | 242.5 | 183.3 | 160.4 | 106.6 | 96.4 |
| 87.5° | 37.9 | 38.7 | 57.7 | 52.1 | 66.4 | 56.9 | 78.2 | 82.2 | 86.1 | 47.4 | 41.1 |
| 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)