

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: P452453

Luminaire Tested: **GLAN-SA3B-830-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P452453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3B-830-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 3000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14087 lumens
Efficiency: N/A
Efficacy: 116.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

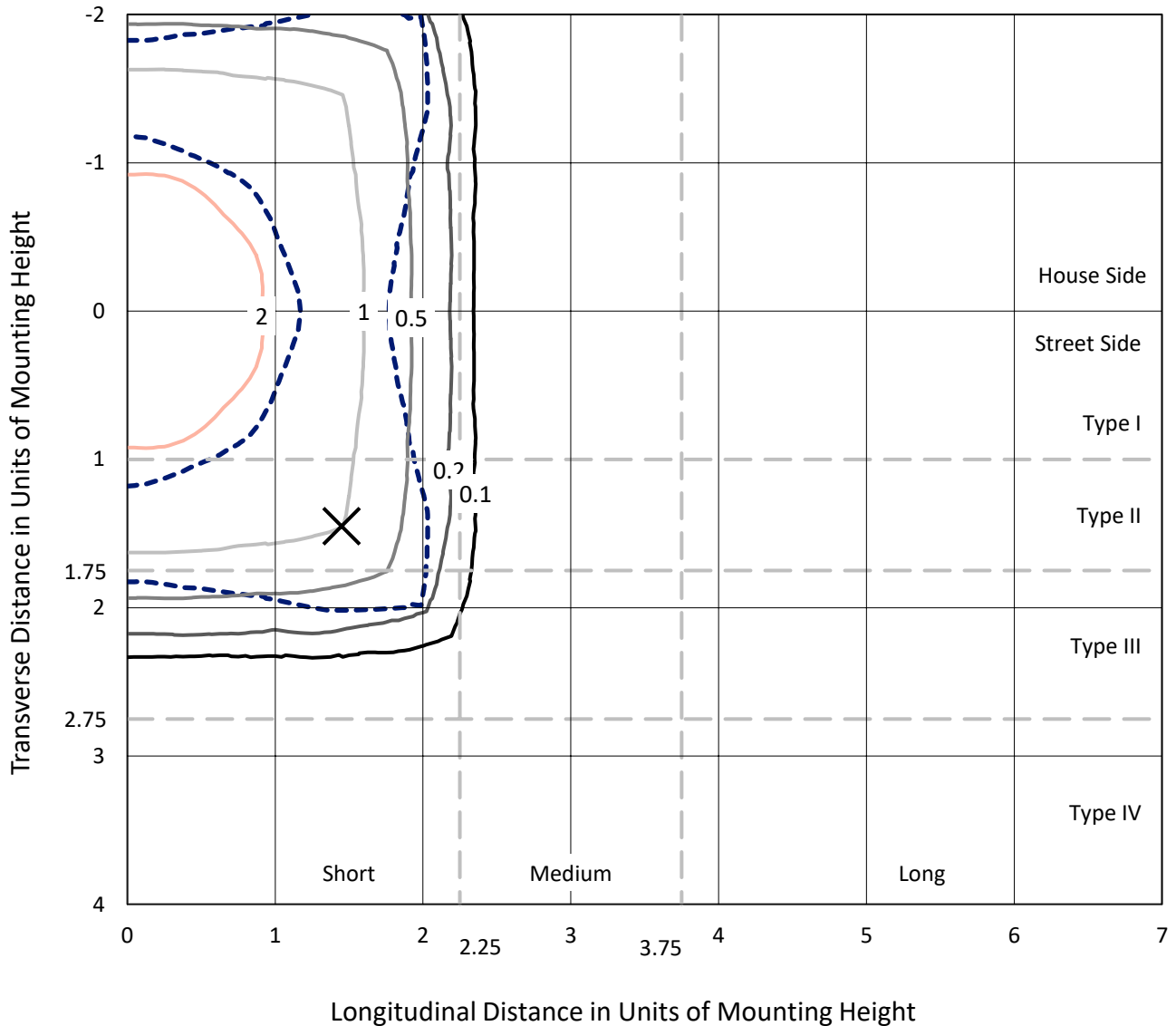
Input Watts (W): 121
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

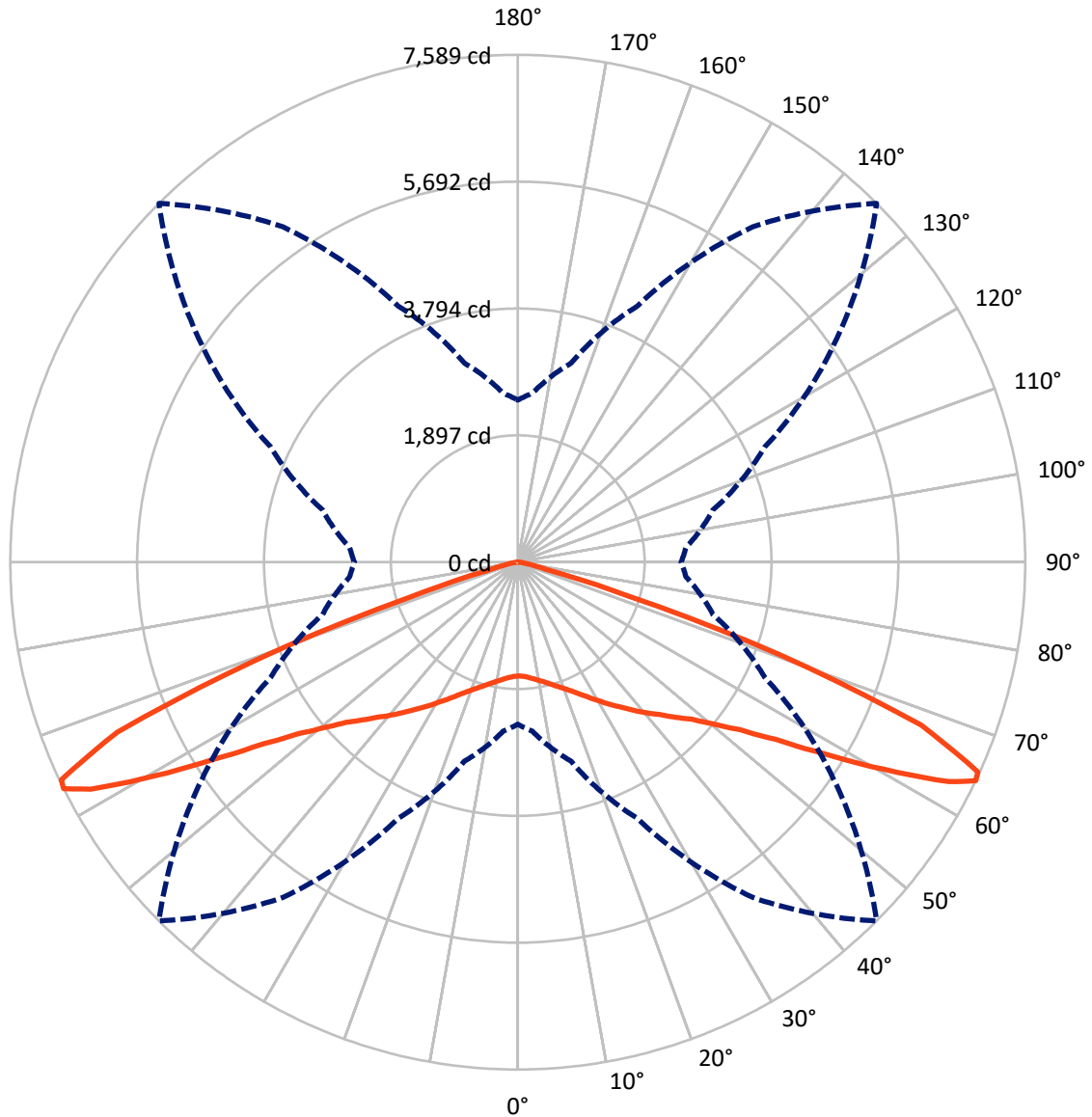
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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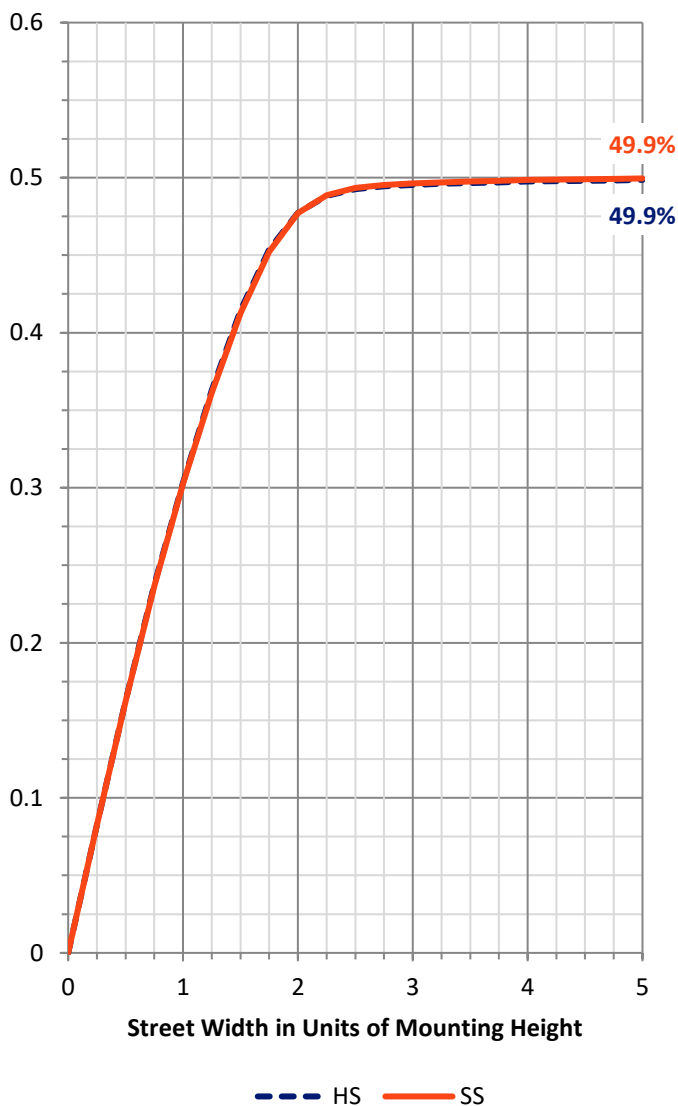
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7043.5 | 0.0 | 7043.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7043.5 | 0.0 | 7043.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14087.0 | 0.0 | 14087.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 167.3 | 1.2 |
| 10°-20° | 539.6 | 3.8 |
| 20°-30° | 1019.6 | 7.2 |
| 30°-40° | 1688.6 | 12.0 |
| 40°-50° | 2636.2 | 18.7 |
| 50°-60° | 4075.5 | 28.9 |
| 60°-70° | 3514.3 | 24.9 |
| 70°-80° | 398.3 | 2.8 |
| 80°-90° | 47.7 | 0.3 |
| 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° | 14087.0 | 100.0 |
| 0°-180° | 14087.0 | 100.0 |

Coefficient of Utilization



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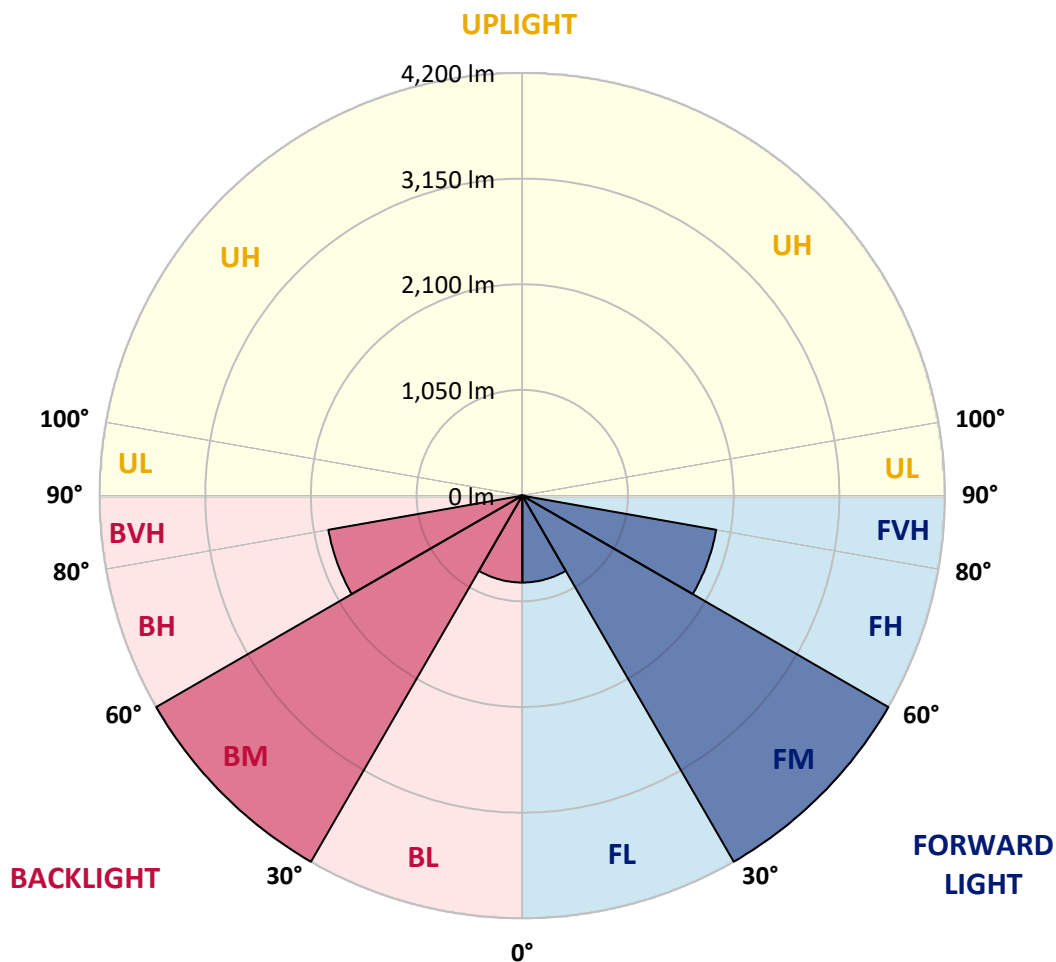
CATALOG NUMBER: GLAN-SA3B-830-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 863.2 | 6.1 | | | |
| FM | (30°-60°) | 4200.2 | 29.8 | | | |
| FH | (60°-80°) | 1956.3 | 13.9 | | | G2/5000 |
| FVH | (80°-90°) | 23.9 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 863.2 | 6.1 | B2/1000 | | |
| BM | (30°-60°) | 4200.2 | 29.8 | B3/5000 | | |
| BH | (60°-80°) | 1956.3 | 13.9 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 23.9 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1702.7 | 1702.7 | 1702.7 | 1702.7 | 1702.7 | 1702.7 | 1702.7 | 1702.7 | 1702.7 | 1702.7 | 1702.7 |
| 2.5° | 1709.4 | 1713.1 | 1710.1 | 1709.4 | 1708.6 | 1708.6 | 1708.6 | 1709.4 | 1712.4 | 1714.6 | 1713.1 |
| 5° | 1731.0 | 1734.0 | 1732.5 | 1731.7 | 1731.0 | 1731.7 | 1730.3 | 1729.5 | 1731.7 | 1731.7 | 1731.0 |
| 7.5° | 1757.9 | 1761.6 | 1760.1 | 1761.6 | 1762.3 | 1763.1 | 1759.4 | 1756.4 | 1755.6 | 1757.9 | 1756.4 |
| 10° | 1794.4 | 1797.4 | 1798.2 | 1798.9 | 1800.4 | 1799.6 | 1795.2 | 1789.9 | 1789.2 | 1788.5 | 1787.7 |
| 12.5° | 1835.5 | 1837.7 | 1838.4 | 1841.4 | 1843.7 | 1844.4 | 1839.2 | 1834.7 | 1827.3 | 1828.7 | 1825.8 |
| 15° | 1881.7 | 1886.2 | 1885.5 | 1889.9 | 1895.9 | 1897.4 | 1892.2 | 1884.7 | 1878.0 | 1874.3 | 1872.0 |
| 17.5° | 1938.4 | 1941.4 | 1939.9 | 1944.4 | 1951.9 | 1955.6 | 1951.1 | 1941.4 | 1934.7 | 1926.5 | 1922.0 |
| 20° | 2005.6 | 2010.8 | 2012.3 | 2012.3 | 2019.0 | 2022.7 | 2016.0 | 2013.0 | 2002.6 | 1996.6 | 1992.9 |
| 22.5° | 2081.7 | 2083.9 | 2088.4 | 2092.9 | 2099.6 | 2098.1 | 2095.9 | 2091.4 | 2081.7 | 2076.5 | 2070.5 |
| 25° | 2167.5 | 2169.7 | 2180.9 | 2190.6 | 2192.9 | 2191.4 | 2188.4 | 2186.1 | 2177.2 | 2165.2 | 2160.8 |
| 27.5° | 2267.5 | 2271.9 | 2286.9 | 2295.8 | 2295.8 | 2296.6 | 2290.6 | 2298.1 | 2278.7 | 2264.5 | 2263.0 |
| 30° | 2392.8 | 2395.8 | 2408.5 | 2417.4 | 2413.0 | 2409.2 | 2407.7 | 2415.2 | 2394.3 | 2368.9 | 2363.0 |
| 32.5° | 2516.7 | 2527.1 | 2538.3 | 2557.7 | 2542.0 | 2535.3 | 2533.8 | 2539.1 | 2515.2 | 2486.8 | 2478.6 |
| 35° | 2649.5 | 2656.9 | 2677.8 | 2694.2 | 2680.1 | 2664.4 | 2671.1 | 2687.5 | 2659.2 | 2621.1 | 2619.6 |
| 37.5° | 2796.5 | 2803.2 | 2830.0 | 2847.2 | 2836.8 | 2809.9 | 2821.1 | 2840.5 | 2812.1 | 2765.1 | 2755.4 |
| 40° | 2949.4 | 2963.6 | 2997.2 | 3015.1 | 2997.9 | 2962.1 | 2983.0 | 3003.9 | 2978.5 | 2924.1 | 2902.4 |
| 42.5° | 3121.0 | 3143.4 | 3191.9 | 3200.9 | 3168.0 | 3119.5 | 3156.1 | 3189.7 | 3171.8 | 3109.1 | 3100.9 |
| 45° | 3321.7 | 3335.2 | 3394.9 | 3414.3 | 3368.7 | 3308.3 | 3353.8 | 3415.0 | 3401.6 | 3329.2 | 3313.5 |
| 47.5° | 3546.3 | 3559.0 | 3620.9 | 3650.0 | 3592.6 | 3511.3 | 3593.3 | 3673.2 | 3665.0 | 3587.4 | 3579.9 |
| 50° | 3811.9 | 3814.9 | 3900.7 | 3933.6 | 3876.1 | 3806.0 | 3879.1 | 3978.3 | 3945.5 | 3846.3 | 3844.8 |
| 52.5° | 4102.9 | 4106.7 | 4214.8 | 4278.3 | 4246.2 | 4167.1 | 4253.6 | 4314.1 | 4230.5 | 4100.7 | 4091.0 |
| 55° | 4355.1 | 4373.8 | 4521.5 | 4690.1 | 4734.1 | 4676.7 | 4702.8 | 4674.5 | 4468.5 | 4286.5 | 4258.1 |
| 57.5° | 4458.1 | 4494.6 | 4719.2 | 5034.1 | 5320.6 | 5405.7 | 5204.2 | 4934.1 | 4563.3 | 4305.9 | 4278.3 |
| 60° | 4206.6 | 4246.2 | 4594.6 | 5192.3 | 5923.5 | 6292.8 | 5726.5 | 4978.1 | 4347.7 | 3985.8 | 3942.5 |
| 62.5° | 3368.7 | 3379.9 | 3892.5 | 4819.9 | 6274.9 | 7231.4 | 5946.6 | 4602.8 | 3720.2 | 3228.5 | 3211.3 |
| 64° | 2424.2 | 2539.1 | 3082.2 | 4226.0 | 6121.2 | 7588.8 | 5819.8 | 4076.8 | 3021.8 | 2524.1 | 2443.6 |
| 65° | 1813.1 | 1844.4 | 2484.6 | 3609.0 | 5850.3 | 7561.9 | 5573.5 | 3573.9 | 2502.5 | 1931.7 | 1842.2 |
| 67.5° | 684.9 | 688.7 | 917.0 | 1798.9 | 4164.9 | 6506.2 | 4253.6 | 1944.4 | 1054.3 | 762.5 | 734.9 |
| 70° | 284.3 | 289.5 | 336.5 | 605.1 | 1789.9 | 4177.5 | 2051.1 | 701.4 | 385.7 | 312.6 | 308.1 |
| 72.5° | 208.2 | 211.2 | 225.3 | 268.6 | 550.6 | 1715.3 | 674.5 | 297.7 | 226.1 | 202.2 | 200.0 |
| 75° | 163.4 | 164.9 | 175.3 | 197.7 | 256.7 | 475.3 | 280.5 | 204.4 | 172.4 | 155.2 | 153.7 |
| 77.5° | 124.6 | 128.3 | 135.8 | 150.7 | 172.4 | 225.3 | 185.8 | 153.0 | 132.8 | 118.6 | 116.4 |
| 80° | 85.8 | 90.3 | 104.5 | 110.4 | 115.6 | 146.2 | 126.8 | 115.6 | 103.7 | 86.6 | 81.3 |
| 82.5° | 53.0 | 56.0 | 70.1 | 75.4 | 73.1 | 82.1 | 81.3 | 82.8 | 73.9 | 53.7 | 50.0 |
| 85° | 27.6 | 29.1 | 38.1 | 39.5 | 36.6 | 33.6 | 41.8 | 48.5 | 45.5 | 30.6 | 29.8 |
| 87.5° | 6.0 | 6.7 | 8.2 | 7.5 | 8.2 | 8.2 | 10.4 | 15.7 | 16.4 | 10.4 | 9.7 |
| 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)