

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: P653777

Luminaire Tested: **GLAN-SA3A-840-U-T1**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P653777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-5)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA3A-840-U-T1
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 80 CRI, 4000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11461.1 lumens
Efficiency: N/A
Efficacy: 123.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

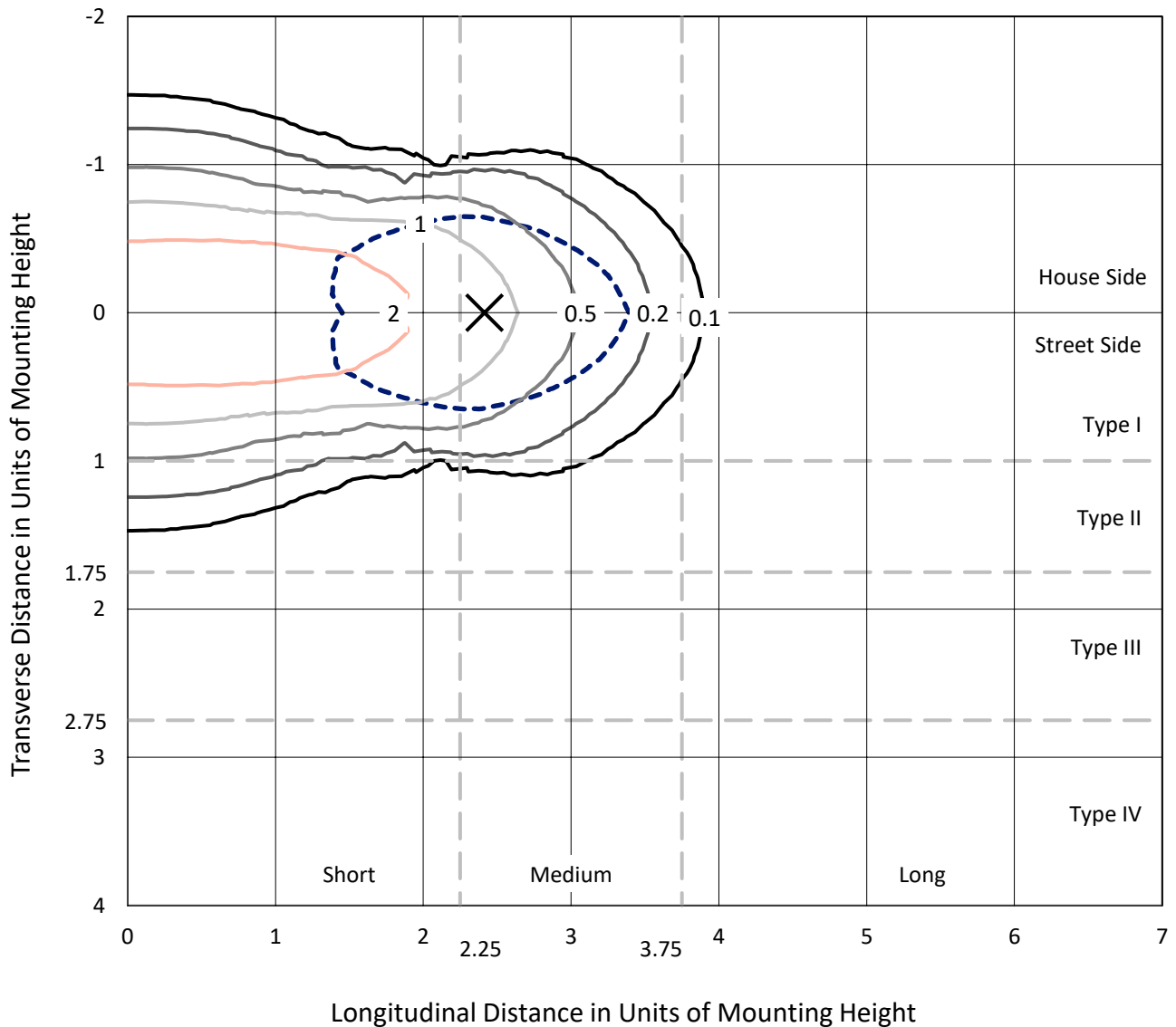
Input Watts (W): 93
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

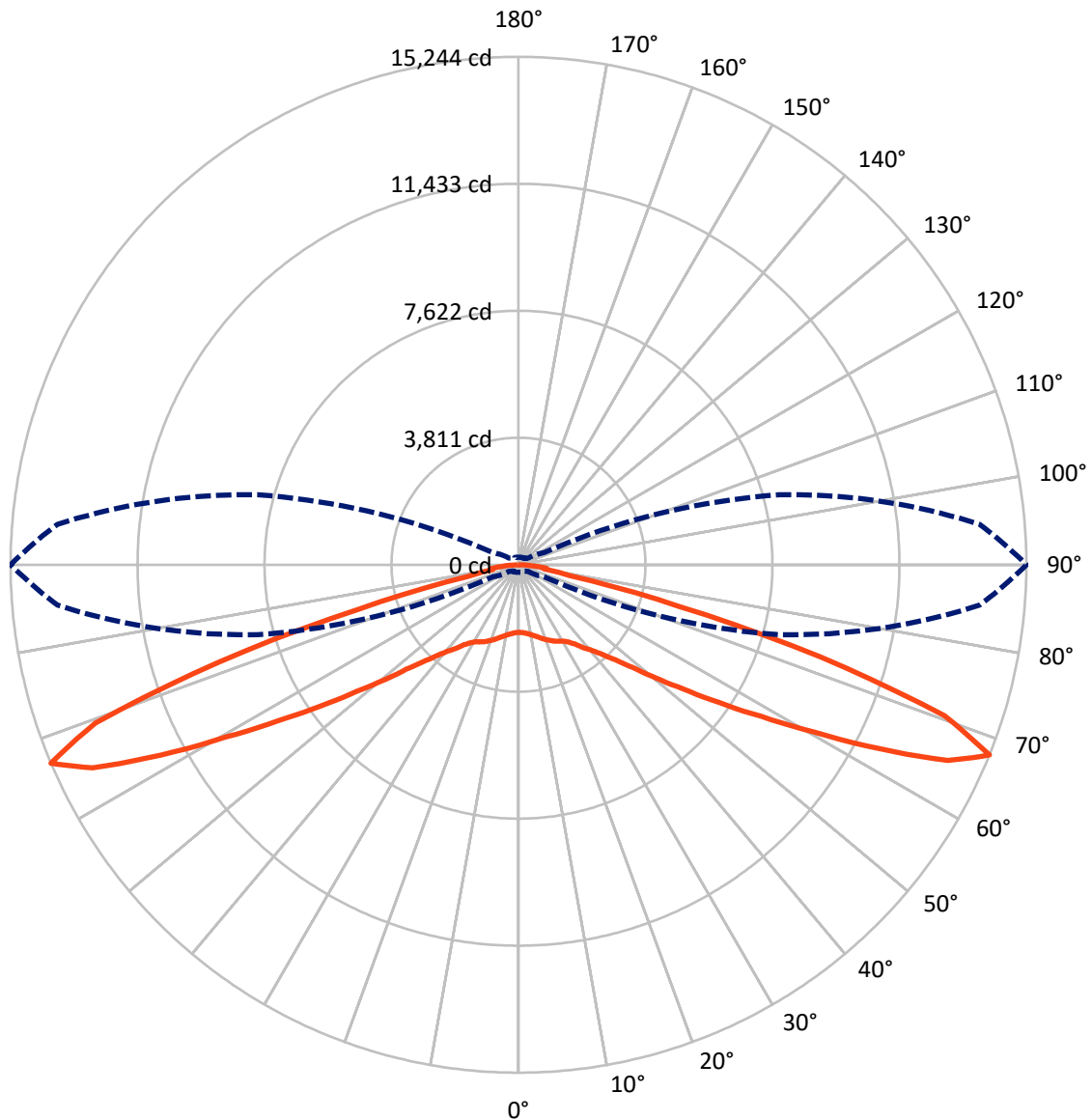
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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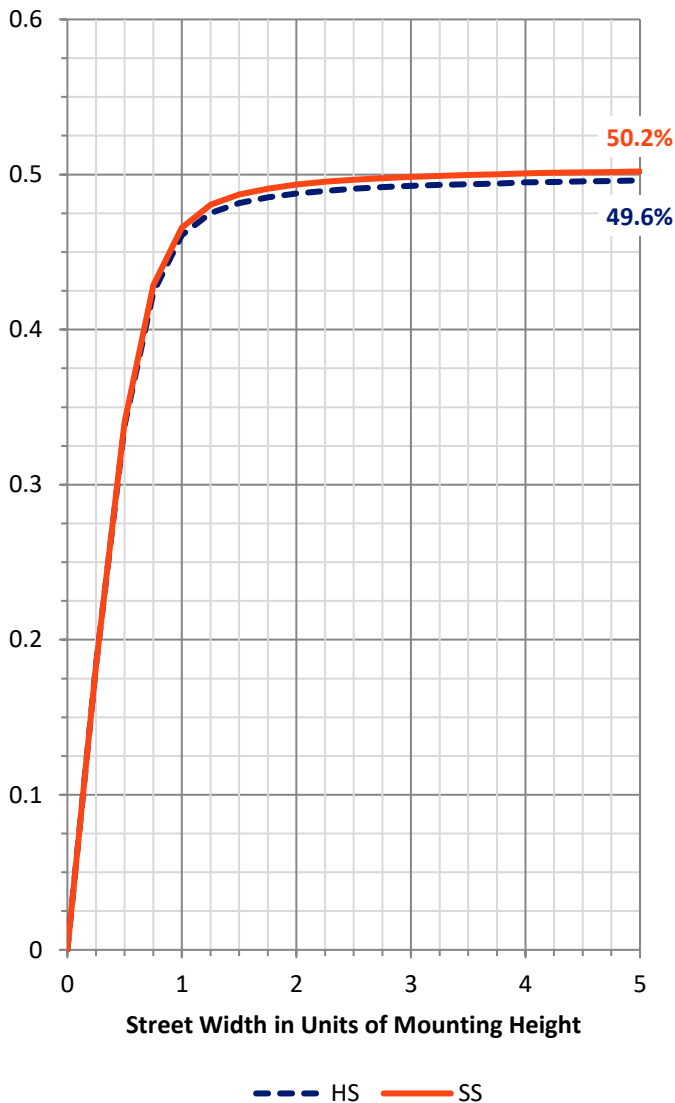
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5730.6 | 0.0 | 5730.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5730.6 | 0.0 | 5730.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11461.1 | 0.0 | 11461.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 202.3 | 1.8 |
| 10°-20° | 647.2 | 5.6 |
| 20°-30° | 1083.3 | 9.5 |
| 30°-40° | 1467.6 | 12.8 |
| 40°-50° | 1858.9 | 16.2 |
| 50°-60° | 2322.2 | 20.3 |
| 60°-70° | 2729.7 | 23.8 |
| 70°-80° | 1044.2 | 9.1 |
| 80°-90° | 105.8 | 0.9 |
| 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° | 11461.1 | 100.0 |
| 0°-180° | 11461.1 | 100.0 |

Coefficient of Utilization

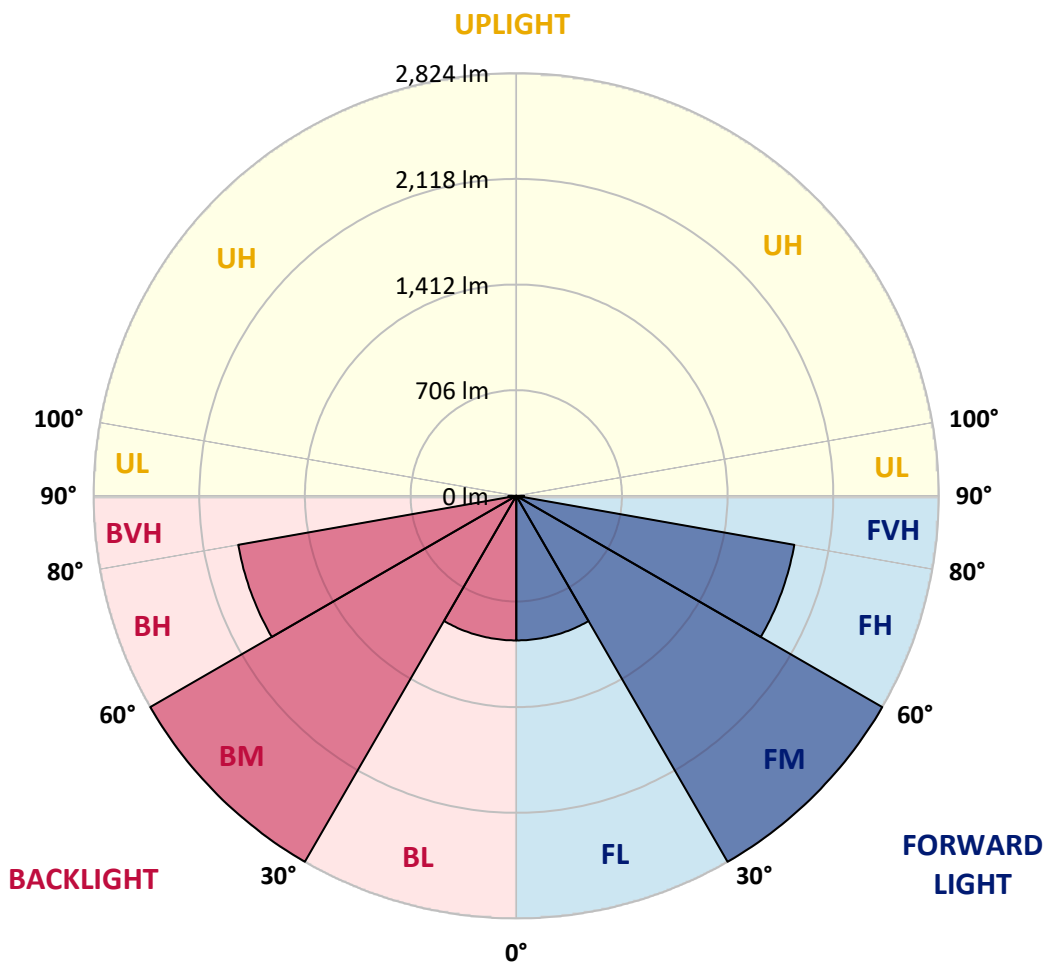


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 966.4 | 8.4 | | | |
| FM (30°-60°) | 2824.3 | 24.6 | | | |
| FH (60°-80°) | 1886.9 | 16.5 | | | G2/5000 |
| FVH (80°-90°) | 52.9 | 0.5 | | | G1/100 |
| BL (0°-30°) | 966.4 | 8.4 | B2/1000 | | |
| BM (30°-60°) | 2824.3 | 24.6 | B3/5000 | | |
| BH (60°-80°) | 1886.9 | 16.5 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 52.9 | 0.5 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G3
 Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 2029.0 | 2029.0 | 2029.0 | 2029.0 | 2029.0 | 2029.0 | 2029.0 | 2029.0 | 2029.0 | 2029.0 | 2029.0 |
| 2.5° | 2055.0 | 2053.7 | 2054.4 | 2053.7 | 2055.7 | 2054.4 | 2046.7 | 2040.4 | 2035.3 | 2036.0 | 2034.0 |
| 5° | 2098.8 | 2099.4 | 2100.1 | 2096.9 | 2101.3 | 2098.8 | 2086.8 | 2076.6 | 2066.4 | 2062.6 | 2061.4 |
| 7.5° | 2135.0 | 2138.2 | 2140.0 | 2143.2 | 2150.9 | 2150.9 | 2144.5 | 2129.9 | 2107.7 | 2095.0 | 2094.3 |
| 10° | 2171.1 | 2173.6 | 2179.4 | 2189.5 | 2202.2 | 2214.3 | 2211.7 | 2192.1 | 2163.6 | 2141.9 | 2136.9 |
| 12.5° | 2183.8 | 2187.0 | 2206.0 | 2235.2 | 2263.8 | 2287.3 | 2287.3 | 2271.5 | 2234.6 | 2201.6 | 2192.1 |
| 15° | 2139.4 | 2145.1 | 2179.4 | 2241.6 | 2316.5 | 2367.9 | 2379.3 | 2357.1 | 2317.7 | 2267.0 | 2255.6 |
| 17.5° | 2051.2 | 2065.2 | 2115.3 | 2207.3 | 2331.7 | 2438.3 | 2471.4 | 2460.5 | 2409.8 | 2345.0 | 2331.7 |
| 20° | 1956.7 | 1971.9 | 2025.2 | 2147.0 | 2319.1 | 2479.6 | 2575.4 | 2577.9 | 2515.1 | 2421.2 | 2401.6 |
| 22.5° | 1852.6 | 1864.0 | 1932.5 | 2075.3 | 2281.0 | 2489.1 | 2664.9 | 2708.7 | 2623.7 | 2497.3 | 2469.4 |
| 25° | 1735.7 | 1748.4 | 1820.2 | 1974.4 | 2209.2 | 2478.3 | 2746.8 | 2843.3 | 2737.3 | 2578.6 | 2543.0 |
| 27.5° | 1624.1 | 1629.2 | 1706.0 | 1862.7 | 2114.7 | 2450.4 | 2807.1 | 2967.0 | 2862.9 | 2645.9 | 2600.8 |
| 30° | 1516.8 | 1528.9 | 1596.8 | 1751.6 | 2006.1 | 2395.8 | 2859.1 | 3107.9 | 2998.1 | 2716.3 | 2658.6 |
| 32.5° | 1403.2 | 1417.8 | 1491.4 | 1648.2 | 1897.6 | 2313.9 | 2890.9 | 3262.1 | 3186.5 | 2830.6 | 2769.0 |
| 35° | 1294.0 | 1303.6 | 1377.8 | 1530.1 | 1791.6 | 2218.7 | 2896.6 | 3436.0 | 3429.7 | 3003.8 | 2922.0 |
| 37.5° | 1182.4 | 1196.3 | 1271.2 | 1417.2 | 1679.3 | 2117.8 | 2868.0 | 3620.7 | 3722.9 | 3244.3 | 3156.1 |
| 40° | 1075.1 | 1087.2 | 1160.7 | 1308.0 | 1551.7 | 1994.7 | 2800.1 | 3789.5 | 4065.0 | 3491.8 | 3366.9 |
| 42.5° | 958.3 | 961.5 | 1042.1 | 1191.9 | 1426.7 | 1851.9 | 2702.4 | 3939.9 | 4446.4 | 3823.8 | 3668.3 |
| 45° | 825.7 | 833.9 | 908.8 | 1056.0 | 1283.3 | 1692.0 | 2569.7 | 4064.3 | 4929.9 | 4283.9 | 4072.0 |
| 47.5° | 693.1 | 700.0 | 768.6 | 913.9 | 1126.5 | 1508.6 | 2365.3 | 4173.5 | 5426.3 | 4868.4 | 4590.4 |
| 50° | 563.6 | 567.3 | 623.3 | 752.0 | 950.1 | 1315.7 | 2112.1 | 4208.4 | 5987.3 | 5696.0 | 5341.2 |
| 52.5° | 445.6 | 451.2 | 493.8 | 594.7 | 761.6 | 1087.8 | 1838.6 | 4122.1 | 6642.2 | 6677.2 | 6177.1 |
| 55° | 361.1 | 363.1 | 394.8 | 469.0 | 595.3 | 849.2 | 1508.6 | 3881.6 | 7346.7 | 7934.4 | 7296.6 |
| 57.5° | 311.0 | 312.3 | 330.0 | 371.3 | 458.2 | 640.3 | 1170.3 | 3426.5 | 7979.5 | 9407.4 | 8587.5 |
| 60° | 282.4 | 283.1 | 293.2 | 317.3 | 363.1 | 491.2 | 838.4 | 2784.2 | 8603.9 | 11046.7 | 10191.8 |
| 62.5° | 264.7 | 264.7 | 271.6 | 284.9 | 307.1 | 377.0 | 607.4 | 2008.6 | 9031.8 | 12710.2 | 12169.4 |
| 65° | 247.5 | 247.5 | 252.6 | 262.1 | 274.2 | 308.5 | 448.7 | 1309.9 | 9020.9 | 13921.7 | 14158.4 |
| 67.5° | 227.8 | 227.8 | 231.6 | 241.2 | 248.2 | 265.3 | 346.5 | 858.1 | 8103.2 | 13895.1 | 15243.7 |
| 70° | 204.4 | 204.4 | 209.4 | 217.7 | 223.4 | 234.2 | 273.5 | 587.0 | 5953.0 | 11864.2 | 13556.8 |
| 72.5° | 180.9 | 181.5 | 184.7 | 192.9 | 197.4 | 203.7 | 227.2 | 411.2 | 3651.8 | 8078.5 | 9479.2 |
| 75° | 154.8 | 156.1 | 159.3 | 167.5 | 171.4 | 173.9 | 191.7 | 293.2 | 1847.5 | 4355.6 | 4959.1 |
| 77.5° | 125.1 | 127.6 | 129.4 | 138.3 | 140.9 | 144.7 | 158.0 | 211.9 | 811.1 | 1565.0 | 1579.0 |
| 80° | 91.4 | 94.5 | 100.2 | 108.5 | 110.4 | 112.9 | 120.6 | 150.4 | 367.4 | 714.6 | 776.2 |
| 82.5° | 67.3 | 71.7 | 64.8 | 75.5 | 75.5 | 72.3 | 85.0 | 100.9 | 168.8 | 707.6 | 846.6 |
| 85° | 36.8 | 37.4 | 33.6 | 38.7 | 41.3 | 40.6 | 45.1 | 49.5 | 81.8 | 472.2 | 486.8 |
| 87.5° | 8.9 | 9.5 | 10.2 | 12.0 | 14.6 | 14.6 | 15.9 | 14.0 | 26.7 | 153.0 | 87.5 |
| 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)