

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: P882405

Luminaire Tested: **NVN-SB2B-735-U-T1**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882405
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-2)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2B-735-U-T1
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 3500K, 450mA LIGHTSQUARES WITH 26 LEDS EACH AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11353 lumens
Efficiency: N/A
Efficacy: 153.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

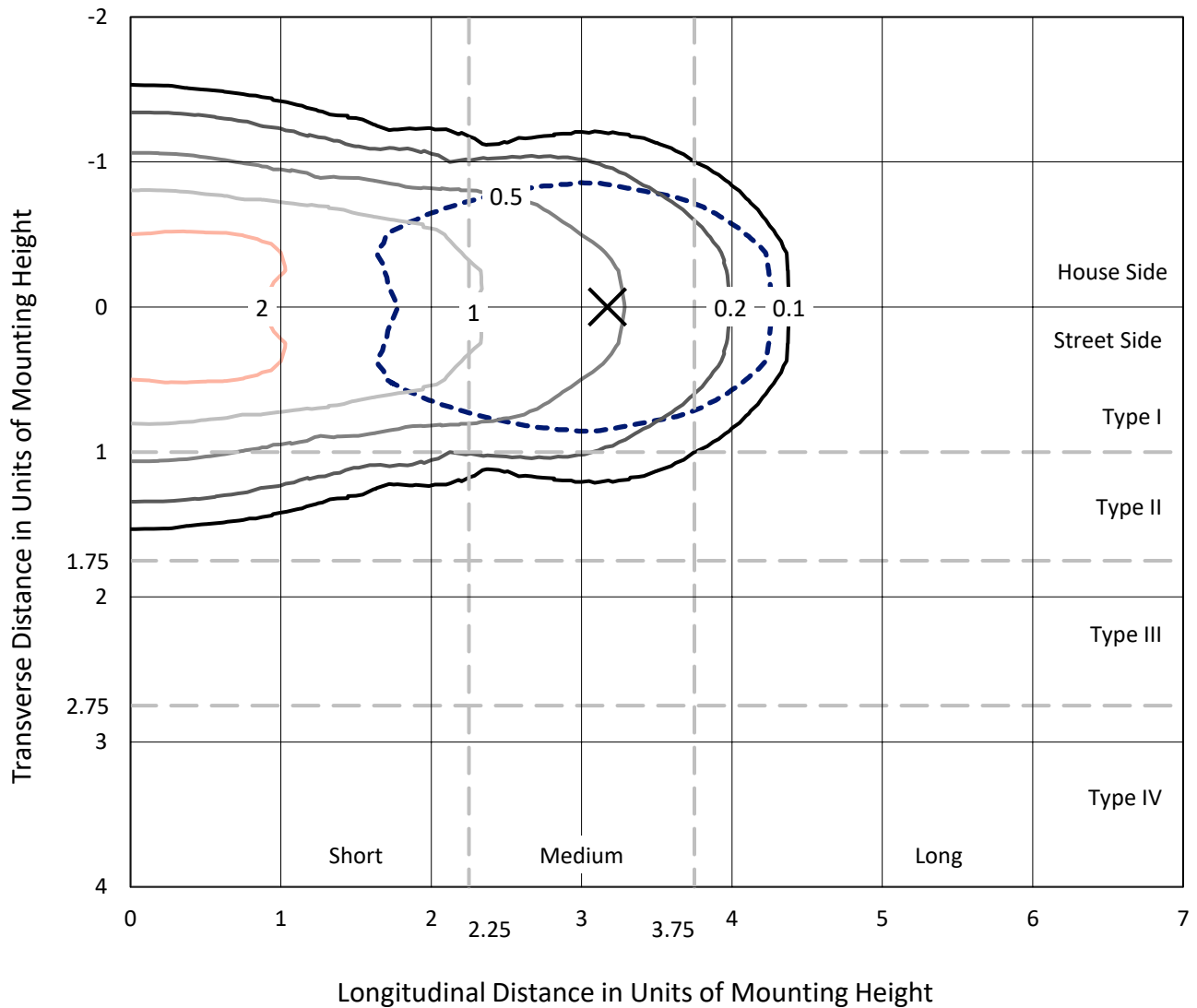
Input Watts (W): 73.9
Input Voltage (V): 120.0
Input Current (Ain): 0.627
Voltage Rise (V): NR
Power Factor: 0.988
Total Harmonic Distortion (THDi): 13.593
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

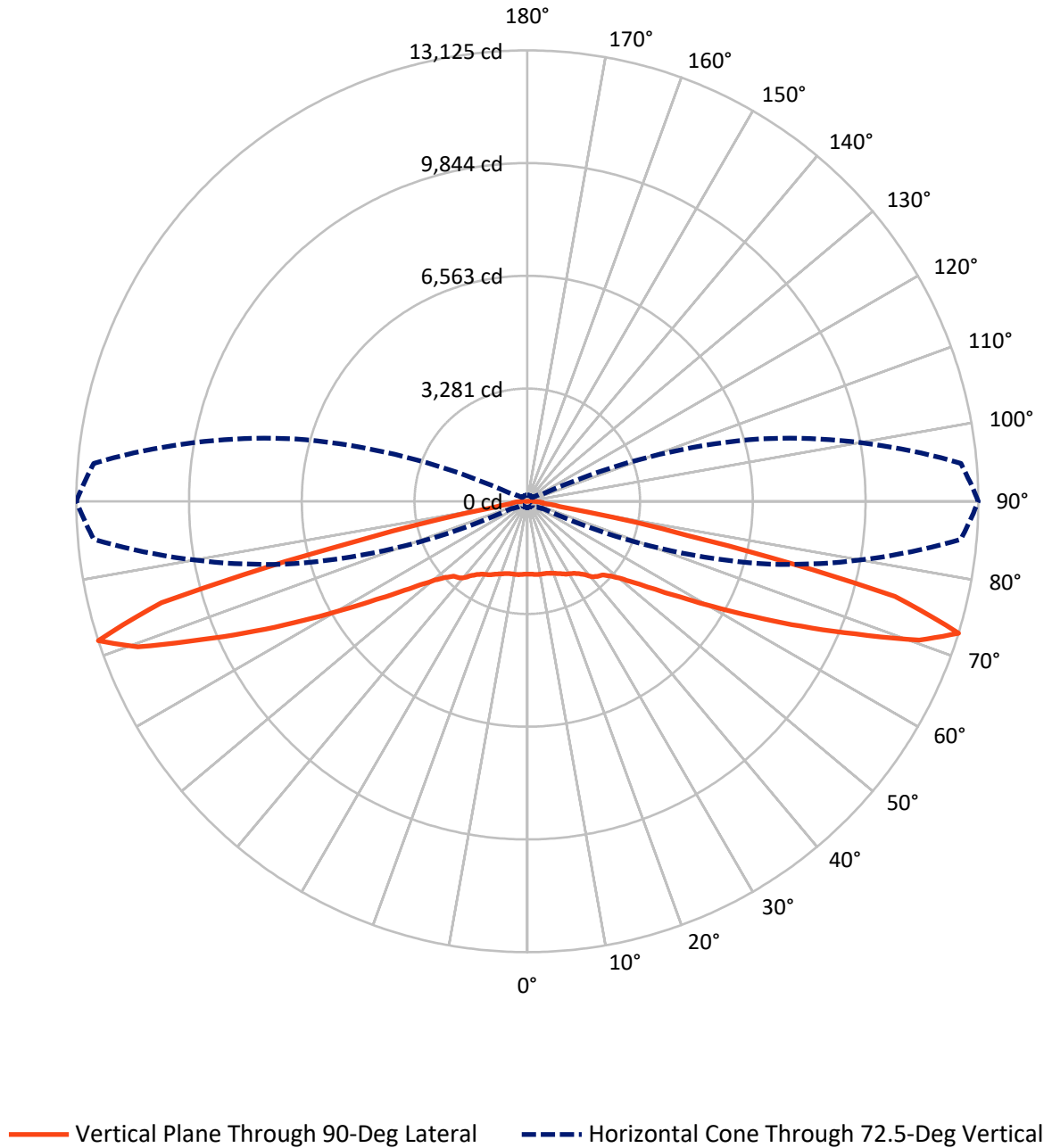
× Max cd
 - - - 1/2 Max cd



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



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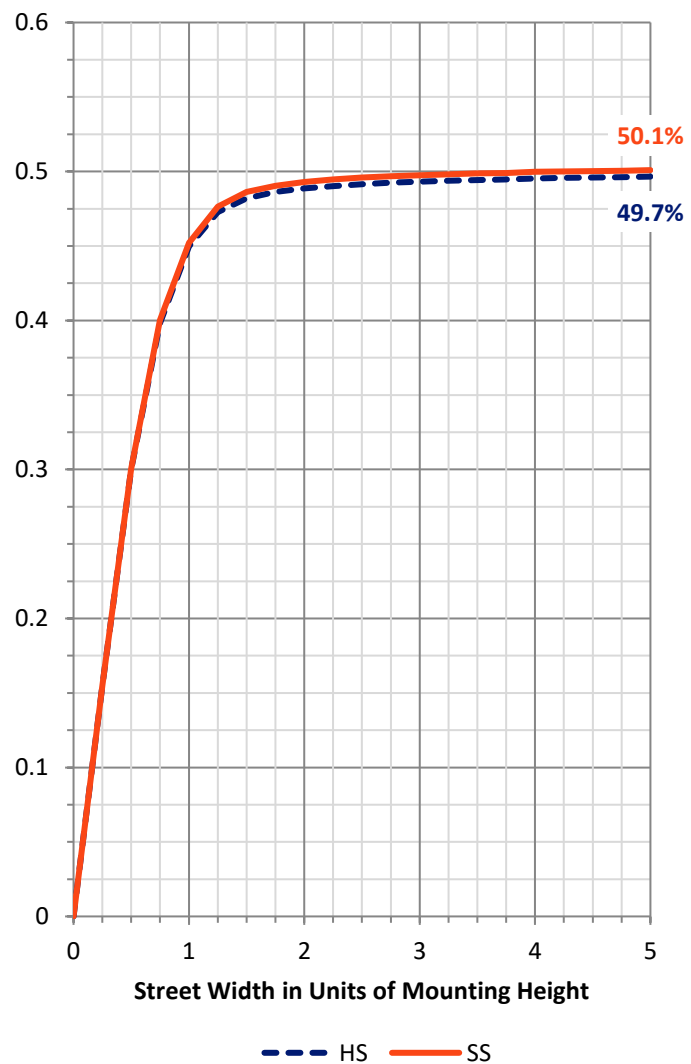
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5676.5 | 0.0 | 5676.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5676.5 | 0.0 | 5676.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 11353.0 | 0.0 | 11353.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 205.7 | 1.8 |
| 10°-20° | 628.9 | 5.5 |
| 20°-30° | 1048.7 | 9.2 |
| 30°-40° | 1442.3 | 12.7 |
| 40°-50° | 1761.4 | 15.5 |
| 50°-60° | 2037.3 | 17.9 |
| 60°-70° | 2429.1 | 21.4 |
| 70°-80° | 1695.4 | 14.9 |
| 80°-90° | 104.1 | 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° | 11353.0 | 100.0 |
| 0°-180° | 11353.0 | 100.0 |

Coefficient of Utilization



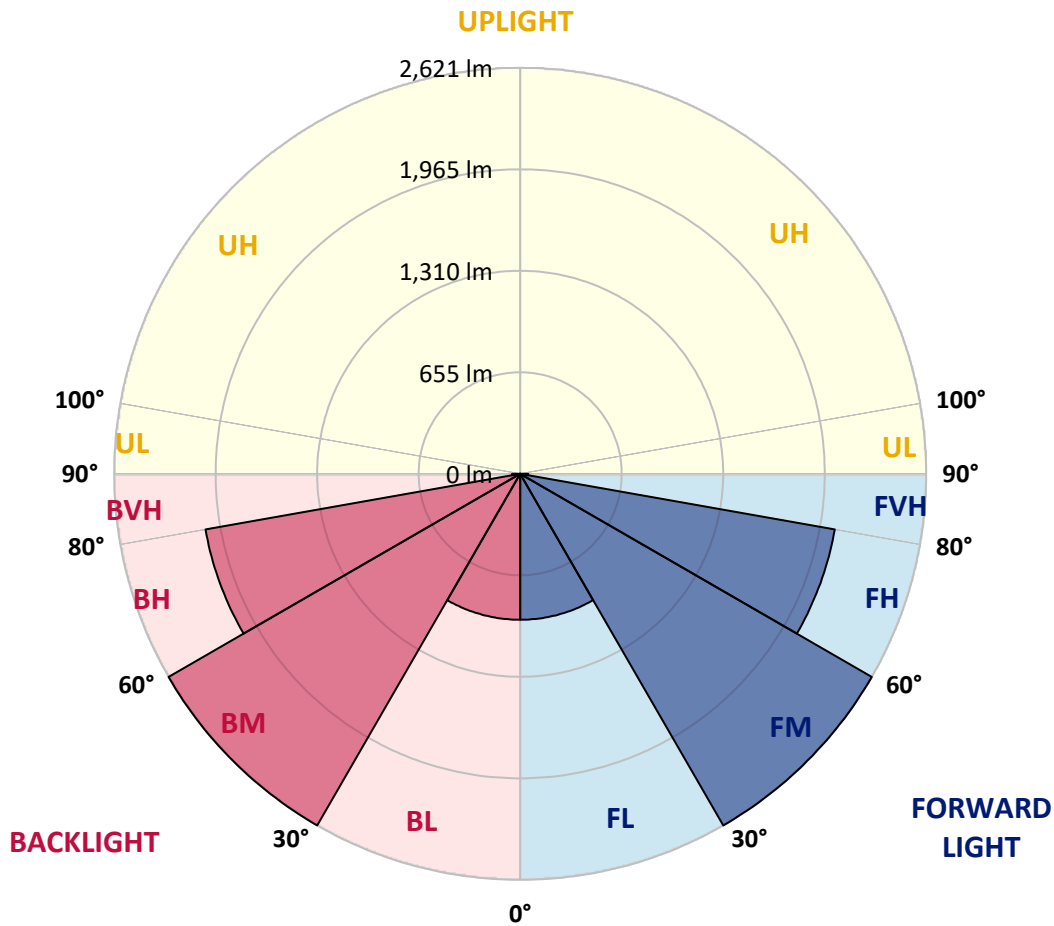
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 941.7 | 8.3 | | | |
| FM (30°-60°) | 2620.5 | 23.1 | | | |
| FH (60°-80°) | 2062.3 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 52.1 | 0.5 | | | G1/100 |
| BL (0°-30°) | 941.7 | 8.3 | B2/1000 | | |
| BM (30°-60°) | 2620.5 | 23.1 | B3/5000 | | |
| BH (60°-80°) | 2062.3 | 18.2 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 52.1 | 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° | 2121.4 | 2121.4 | 2121.4 | 2121.4 | 2121.4 | 2121.4 | 2121.4 | 2121.4 | 2121.4 | 2121.4 | 2121.4 |
| 2.5° | 2123.2 | 2125.7 | 2125.7 | 2123.8 | 2128.1 | 2124.4 | 2124.4 | 2122.6 | 2124.4 | 2122.6 | 2122.6 |
| 5° | 2134.1 | 2137.1 | 2138.3 | 2137.7 | 2143.1 | 2140.1 | 2140.1 | 2137.7 | 2138.3 | 2136.5 | 2136.5 |
| 7.5° | 2154.6 | 2158.8 | 2161.2 | 2164.3 | 2172.1 | 2168.5 | 2166.1 | 2158.8 | 2155.8 | 2151.0 | 2151.0 |
| 10° | 2161.2 | 2166.1 | 2173.9 | 2189.6 | 2207.7 | 2208.3 | 2201.1 | 2183.0 | 2169.1 | 2158.2 | 2156.4 |
| 12.5° | 2140.7 | 2147.4 | 2163.7 | 2195.6 | 2236.1 | 2252.4 | 2240.9 | 2210.7 | 2183.6 | 2164.3 | 2161.2 |
| 15° | 2114.8 | 2122.0 | 2146.8 | 2195.0 | 2254.8 | 2292.8 | 2291.6 | 2251.8 | 2208.3 | 2178.1 | 2173.3 |
| 17.5° | 2074.4 | 2081.6 | 2117.2 | 2184.8 | 2269.3 | 2332.0 | 2348.9 | 2307.9 | 2246.9 | 2206.5 | 2199.9 |
| 20° | 2001.4 | 2008.0 | 2057.5 | 2152.2 | 2274.1 | 2373.6 | 2417.7 | 2381.5 | 2305.5 | 2250.5 | 2240.3 |
| 22.5° | 1906.6 | 1916.9 | 1974.8 | 2096.1 | 2262.6 | 2417.1 | 2496.1 | 2471.4 | 2373.6 | 2297.6 | 2283.7 |
| 25° | 1805.3 | 1816.1 | 1883.7 | 2027.3 | 2233.1 | 2448.5 | 2589.0 | 2573.3 | 2450.9 | 2356.1 | 2336.8 |
| 27.5° | 1717.8 | 1729.2 | 1802.9 | 1959.1 | 2187.2 | 2460.5 | 2680.7 | 2688.6 | 2544.4 | 2420.7 | 2400.2 |
| 30° | 1649.0 | 1659.9 | 1738.3 | 1904.2 | 2128.1 | 2448.5 | 2761.0 | 2815.3 | 2639.7 | 2476.8 | 2447.2 |
| 32.5° | 1573.6 | 1587.5 | 1670.1 | 1837.2 | 2058.1 | 2419.5 | 2831.0 | 2952.3 | 2750.1 | 2537.1 | 2499.7 |
| 35° | 1478.2 | 1490.9 | 1577.8 | 1745.5 | 1966.4 | 2373.0 | 2889.5 | 3104.3 | 2908.2 | 2628.9 | 2587.2 |
| 37.5° | 1362.4 | 1374.5 | 1460.7 | 1630.9 | 1875.3 | 2307.9 | 2934.2 | 3275.7 | 3096.5 | 2761.0 | 2705.5 |
| 40° | 1245.9 | 1257.4 | 1338.3 | 1503.0 | 1766.0 | 2224.6 | 2949.8 | 3443.4 | 3312.5 | 2942.6 | 2883.5 |
| 42.5° | 1139.2 | 1149.4 | 1223.6 | 1376.9 | 1643.6 | 2118.4 | 2929.3 | 3589.4 | 3506.1 | 3069.3 | 2993.3 |
| 45° | 1040.8 | 1049.9 | 1115.6 | 1258.6 | 1516.3 | 1989.3 | 2867.8 | 3746.3 | 3736.6 | 3159.8 | 3057.2 |
| 47.5° | 928.6 | 937.6 | 1005.8 | 1144.0 | 1388.9 | 1837.8 | 2763.4 | 3900.7 | 4057.0 | 3365.0 | 3246.7 |
| 50° | 791.6 | 799.5 | 869.4 | 1011.8 | 1256.8 | 1676.7 | 2618.6 | 4022.0 | 4461.3 | 3675.7 | 3527.3 |
| 52.5° | 629.3 | 637.8 | 705.9 | 848.3 | 1099.9 | 1503.6 | 2427.9 | 4101.1 | 4928.3 | 4129.4 | 3946.6 |
| 55° | 468.2 | 474.2 | 533.4 | 661.3 | 905.6 | 1306.3 | 2189.0 | 4123.4 | 5458.0 | 4749.7 | 4521.0 |
| 57.5° | 339.7 | 343.3 | 381.3 | 476.7 | 686.6 | 1059.5 | 1898.8 | 4065.5 | 6088.5 | 5544.9 | 5257.1 |
| 60° | 275.1 | 276.3 | 287.8 | 330.0 | 477.3 | 780.8 | 1548.2 | 3866.4 | 6772.8 | 6570.0 | 6207.4 |
| 62.5° | 249.8 | 249.8 | 252.8 | 264.3 | 322.8 | 515.3 | 1124.1 | 3453.7 | 7506.5 | 7865.5 | 7379.7 |
| 65° | 232.3 | 232.3 | 233.5 | 238.9 | 254.6 | 328.2 | 709.6 | 2781.5 | 8124.9 | 9382.9 | 8768.7 |
| 67.5° | 216.6 | 217.2 | 216.6 | 218.4 | 227.5 | 242.6 | 411.5 | 1921.1 | 8458.0 | 10955.3 | 10292.2 |
| 70° | 200.3 | 201.5 | 198.5 | 198.5 | 205.7 | 206.4 | 257.6 | 1053.5 | 8181.6 | 12273.0 | 12098.7 |
| 72.5° | 181.0 | 182.8 | 178.0 | 176.8 | 182.2 | 179.8 | 193.7 | 505.6 | 7024.4 | 12666.4 | 13125.0 |
| 75° | 164.1 | 166.5 | 155.7 | 152.7 | 152.7 | 150.8 | 157.5 | 259.4 | 4559.0 | 10332.6 | 11051.8 |
| 77.5° | 149.0 | 153.9 | 136.4 | 126.7 | 124.3 | 118.9 | 128.5 | 158.7 | 1994.1 | 4851.0 | 4750.3 |
| 80° | 123.1 | 129.7 | 112.2 | 100.8 | 96.5 | 90.5 | 101.4 | 111.0 | 593.1 | 1126.5 | 1078.8 |
| 82.5° | 91.7 | 94.7 | 79.6 | 71.8 | 68.2 | 64.0 | 76.0 | 77.2 | 193.1 | 398.8 | 450.7 |
| 85° | 58.5 | 59.7 | 48.9 | 42.2 | 40.4 | 38.6 | 48.3 | 42.2 | 73.6 | 293.2 | 426.0 |
| 87.5° | 20.5 | 23.5 | 18.7 | 16.9 | 18.1 | 15.1 | 22.3 | 12.7 | 20.5 | 207.0 | 256.4 |
| 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)