

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: P961453

Luminaire Tested: **NVN-SB2A-750-U-AFL-HSS**

Issue Date: 1/21/2025

Test Information

Test Method: LM-79-08
Report Number: P961453
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2411-289-15)
Test Lab: INNOVATION CENTER
Issue Date: 1/21/2025
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB2A-750-U-AFL-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(2) 70 CRI, 5000K, 350mA LIGHTSQUARES WITH 26 LEDS EACH AND AUTOMOTIVE
FRONTLINE OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8294.3 lumens
Efficiency: N/A
Efficacy: 144.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short
BUG Rating: B1 - U0 - G1

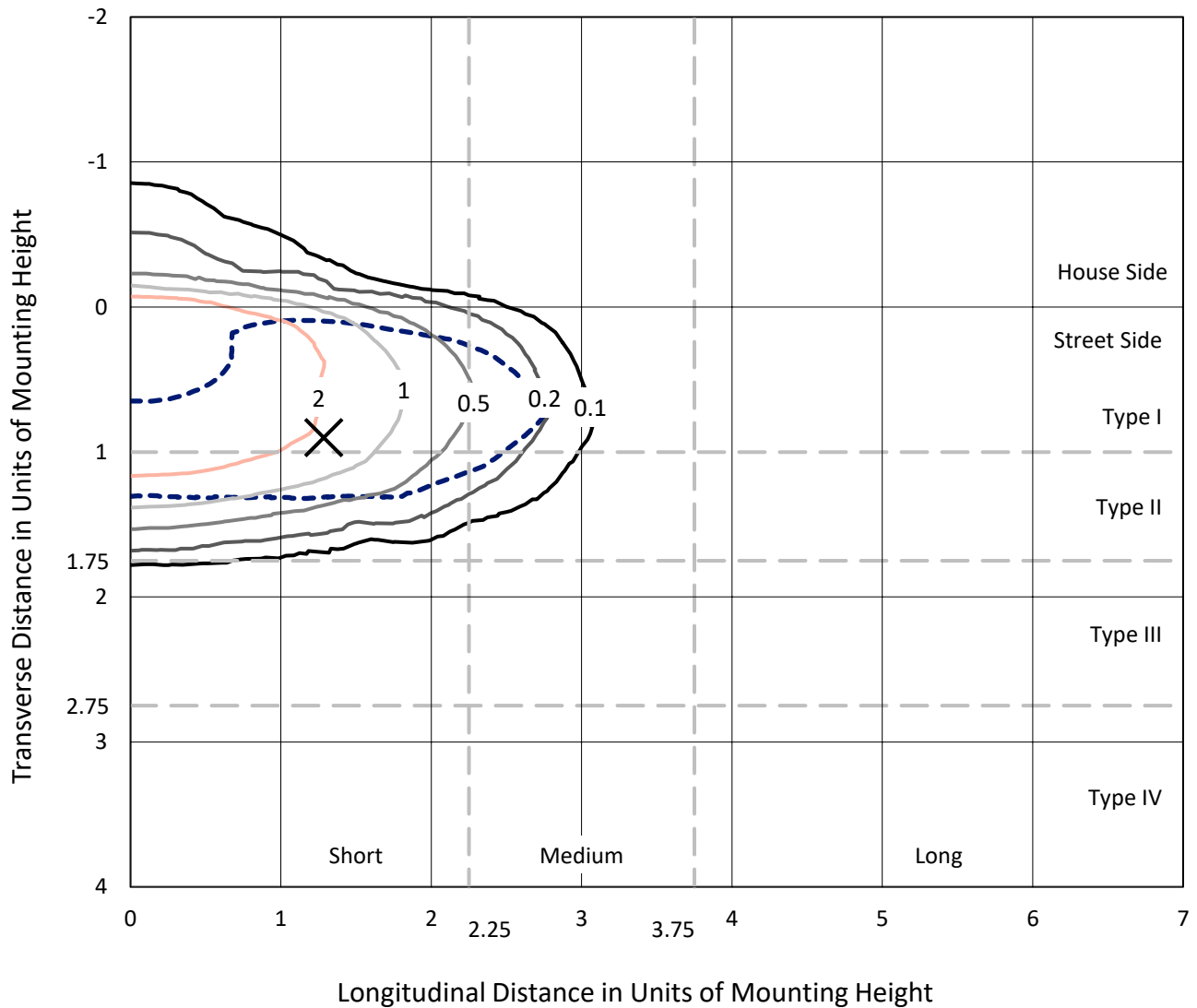
Input Watts (W): 57.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

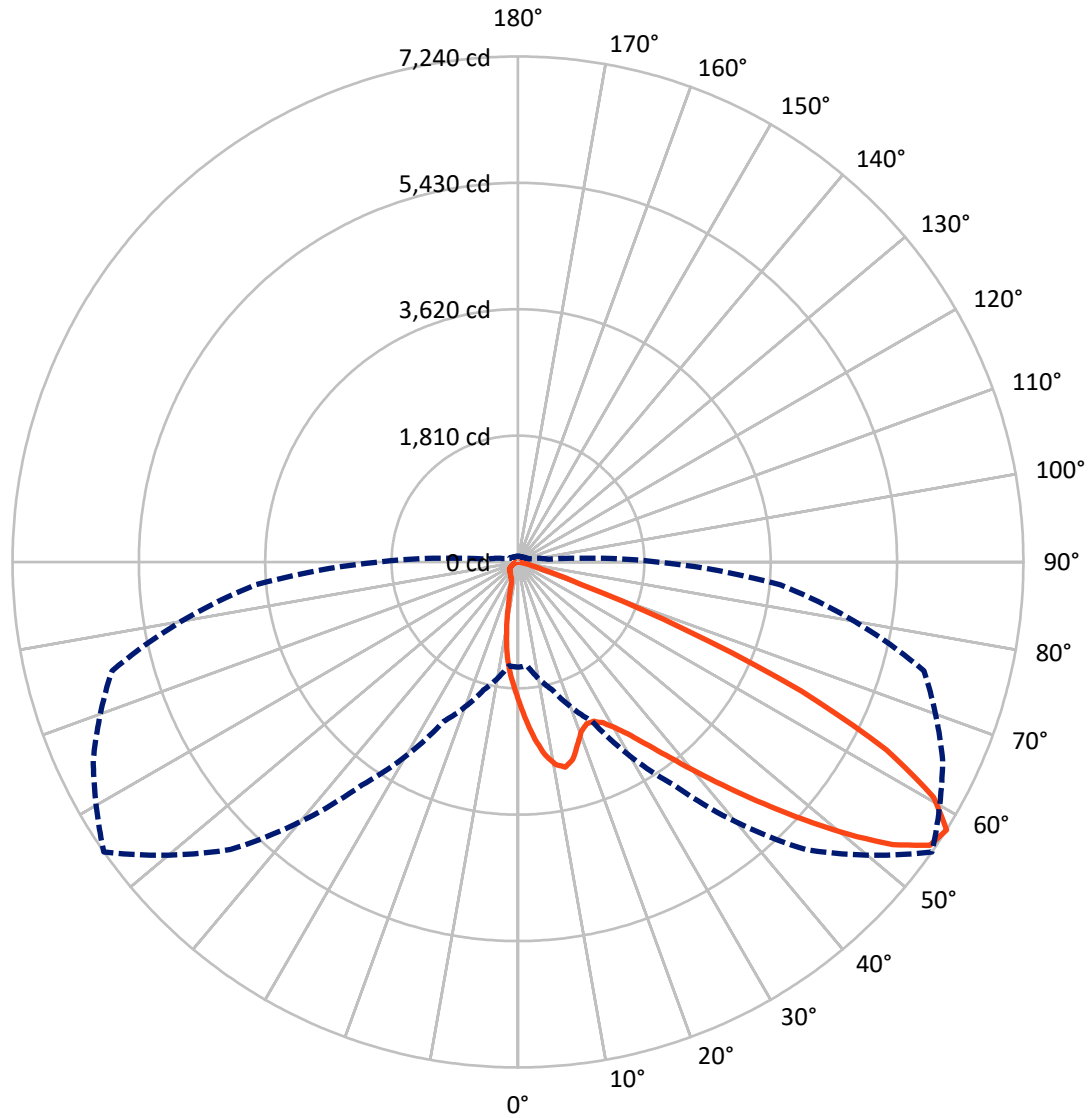
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.6 fc
 Type II - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 57.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 647.7 | 0.0 | 647.7 |
| | % Fixture | 7.8 | 0.0 | 7.8 |
| Street Side | Lumens | 7646.6 | 0.0 | 7646.6 |
| | % Fixture | 92.2 | 0.0 | 92.2 |
| Total | Lumens | 8294.3 | 0.0 | 8294.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 186.0 | 2.2 |
| 10°-20° | 449.2 | 5.4 |
| 20°-30° | 718.7 | 8.7 |
| 30°-40° | 1216.5 | 14.7 |
| 40°-50° | 1997.2 | 24.1 |
| 50°-60° | 2195.1 | 26.5 |
| 60°-70° | 1259.1 | 15.2 |
| 70°-80° | 257.3 | 3.1 |
| 80°-90° | 15.2 | 0.2 |
| 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° | 8294.3 | 100.0 |
| 0°-180° | 8294.3 | 100.0 |

Coefficient of Utilization

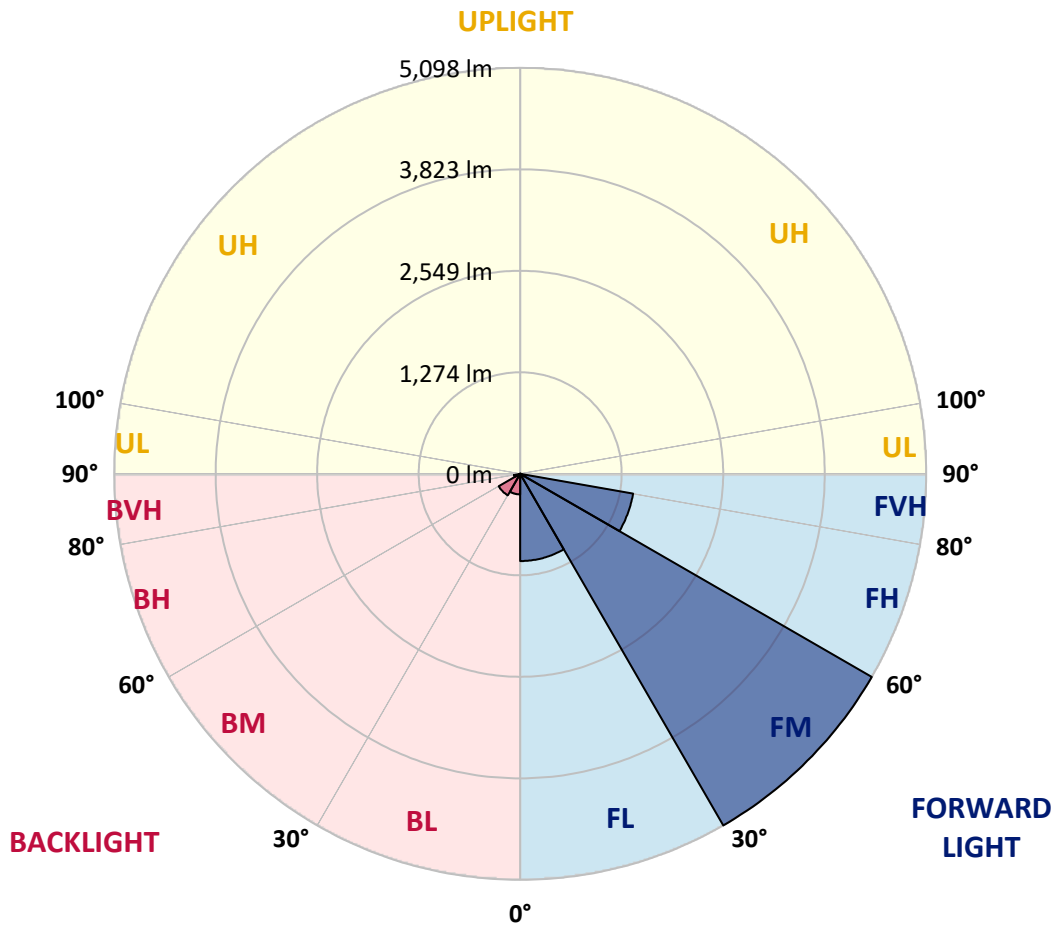


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1095.3 | 13.2 | | | |
| FM (30°-60°) | 5097.7 | 61.5 | | | |
| FH (60°-80°) | 1439.4 | 17.4 | | | G1/1800 |
| FVH (80°-90°) | 14.2 | 0.2 | | | G1/100 |
| BL (0°-30°) | 258.6 | 3.1 | B1/500 | | |
| BM (30°-60°) | 311.1 | 3.8 | B1/1000 | | |
| BH (60°-80°) | 77.0 | 0.9 | B0/110 | | G0/110 |
| BVH (80°-90°) | 1.0 | 0.0 | | | G0/10 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B1-U0-G1
 Type II Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 |
| 2.5° | 2480.0 | 2448.8 | 2444.2 | 2438.1 | 2378.7 | 2334.2 | 2269.8 | 2199.2 | 2119.9 | 2039.1 | 2003.4 |
| 5° | 2865.1 | 2840.6 | 2836.0 | 2807.3 | 2739.8 | 2664.1 | 2549.6 | 2404.9 | 2257.0 | 2083.1 | 2008.5 |
| 7.5° | 2939.8 | 2935.2 | 2956.1 | 2955.1 | 2946.0 | 2886.1 | 2789.4 | 2617.0 | 2395.1 | 2137.3 | 2021.7 |
| 10° | 2606.8 | 2618.6 | 2681.0 | 2735.7 | 2883.5 | 2969.4 | 2948.5 | 2806.2 | 2537.3 | 2199.2 | 2036.6 |
| 12.5° | 2303.6 | 2289.7 | 2334.2 | 2396.1 | 2567.9 | 2823.7 | 3014.4 | 2964.3 | 2700.0 | 2269.2 | 2058.6 |
| 15° | 2113.2 | 2107.7 | 2132.7 | 2161.3 | 2292.3 | 2550.1 | 2937.8 | 3092.7 | 2856.4 | 2352.2 | 2091.8 |
| 17.5° | 2052.5 | 2047.8 | 2055.5 | 2062.6 | 2147.6 | 2347.0 | 2755.1 | 3171.5 | 3006.2 | 2446.8 | 2128.6 |
| 20° | 2102.1 | 2095.9 | 2094.9 | 2089.3 | 2124.5 | 2260.5 | 2590.0 | 3177.1 | 3140.8 | 2532.7 | 2160.3 |
| 22.5° | 2246.8 | 2239.6 | 2214.5 | 2192.1 | 2195.1 | 2272.3 | 2516.3 | 3120.8 | 3242.1 | 2612.9 | 2180.3 |
| 25° | 2509.1 | 2497.4 | 2445.2 | 2369.5 | 2321.4 | 2354.2 | 2527.5 | 3046.7 | 3338.7 | 2675.9 | 2170.5 |
| 27.5° | 2837.5 | 2822.1 | 2755.1 | 2642.7 | 2532.7 | 2492.8 | 2608.8 | 2995.6 | 3419.0 | 2723.9 | 2149.6 |
| 30° | 3159.2 | 3139.3 | 3073.3 | 2985.8 | 2825.2 | 2699.4 | 2755.6 | 3018.0 | 3514.6 | 2774.1 | 2122.0 |
| 32.5° | 3506.4 | 3487.6 | 3400.0 | 3291.7 | 3158.6 | 2989.4 | 2956.6 | 3128.0 | 3631.8 | 2844.2 | 2102.6 |
| 35° | 3945.7 | 3916.1 | 3791.9 | 3644.1 | 3502.8 | 3331.6 | 3228.7 | 3317.7 | 3787.8 | 2951.1 | 2113.2 |
| 37.5° | 4445.9 | 4406.1 | 4272.1 | 4068.0 | 3883.9 | 3692.2 | 3560.1 | 3578.6 | 4016.4 | 3094.3 | 2146.6 |
| 40° | 4917.5 | 4881.3 | 4757.4 | 4565.1 | 4334.0 | 4101.2 | 3960.6 | 3919.7 | 4332.0 | 3268.6 | 2204.9 |
| 42.5° | 5200.3 | 5167.6 | 5115.5 | 5034.2 | 4839.2 | 4601.9 | 4424.5 | 4336.1 | 4705.3 | 3477.3 | 2275.9 |
| 45° | 5216.2 | 5187.5 | 5257.6 | 5352.2 | 5313.9 | 5155.9 | 4939.5 | 4777.4 | 5080.2 | 3673.2 | 2349.6 |
| 47.5° | 4962.5 | 4943.1 | 5155.9 | 5486.2 | 5650.9 | 5717.4 | 5518.0 | 5182.0 | 5389.6 | 3813.8 | 2379.7 |
| 50° | 4271.1 | 4263.9 | 4701.7 | 5308.3 | 5779.4 | 6209.4 | 6128.2 | 5558.4 | 5629.5 | 3886.5 | 2351.1 |
| 52.5° | 3703.3 | 3677.3 | 3932.5 | 4738.6 | 5592.6 | 6468.3 | 6724.5 | 5927.7 | 5797.2 | 3900.2 | 2284.1 |
| 55° | 2808.8 | 2785.8 | 3106.0 | 3785.2 | 4990.6 | 6376.2 | 7160.8 | 6308.7 | 5917.4 | 3865.0 | 2163.9 |
| 57.5° | 1506.7 | 1492.4 | 1897.0 | 2519.3 | 3901.3 | 5823.8 | 7239.5 | 6711.7 | 6018.7 | 3771.4 | 1995.7 |
| 60° | 586.6 | 584.0 | 735.4 | 1222.3 | 2371.0 | 4738.1 | 6842.1 | 6953.6 | 6082.0 | 3656.3 | 1855.0 |
| 62.5° | 355.0 | 362.6 | 387.1 | 548.8 | 1047.4 | 2943.4 | 5926.1 | 6678.4 | 6124.6 | 3550.9 | 1738.9 |
| 65° | 293.6 | 294.1 | 297.1 | 376.9 | 501.7 | 1231.5 | 4461.3 | 5773.2 | 6019.7 | 3363.2 | 1574.2 |
| 67.5° | 251.6 | 256.2 | 268.0 | 299.2 | 353.9 | 540.1 | 2568.4 | 4472.1 | 5382.0 | 2926.5 | 1317.4 |
| 70° | 198.4 | 204.6 | 219.5 | 246.0 | 273.1 | 338.0 | 949.3 | 2975.6 | 4111.5 | 2205.9 | 996.3 |
| 72.5° | 167.3 | 166.8 | 174.4 | 200.0 | 216.9 | 237.8 | 365.2 | 1667.3 | 2389.5 | 1053.1 | 493.0 |
| 75° | 129.4 | 134.5 | 144.2 | 167.3 | 177.4 | 172.4 | 197.9 | 609.2 | 856.2 | 319.2 | 167.8 |
| 77.5° | 101.3 | 105.4 | 114.1 | 136.5 | 146.8 | 122.3 | 114.1 | 217.9 | 275.1 | 114.6 | 75.6 |
| 80° | 45.5 | 49.1 | 77.7 | 100.8 | 119.7 | 84.4 | 61.9 | 111.5 | 122.3 | 52.2 | 38.3 |
| 82.5° | 8.2 | 13.8 | 45.5 | 53.2 | 61.4 | 54.7 | 32.2 | 57.8 | 59.9 | 21.0 | 13.3 |
| 85° | 0.5 | 1.0 | 15.9 | 19.5 | 24.6 | 17.9 | 9.7 | 23.1 | 20.0 | 7.2 | 5.1 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.5 | 0.5 | 2.6 | 3.1 | 4.1 | 3.1 | 2.6 | 2.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

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CANDELA DISTRIBUTION (continued):

| | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 | 1998.7 |
| 2.5° | 1966.5 | 1893.9 | 1823.3 | 1765.5 | 1731.7 | 1674.4 | 1636.6 | 1630.5 | 1614.6 | 1628.4 |
| 5° | 1928.6 | 1798.8 | 1667.3 | 1549.7 | 1453.0 | 1328.2 | 1235.1 | 1195.8 | 1161.5 | 1173.2 |
| 7.5° | 1910.7 | 1705.7 | 1501.1 | 1300.1 | 1093.5 | 894.0 | 745.7 | 683.8 | 636.7 | 643.4 |
| 10° | 1886.7 | 1609.0 | 1288.3 | 981.4 | 704.8 | 507.9 | 405.6 | 367.8 | 346.8 | 347.3 |
| 12.5° | 1868.3 | 1493.4 | 1041.3 | 665.4 | 429.1 | 324.2 | 292.5 | 283.3 | 277.2 | 277.7 |
| 15° | 1859.1 | 1357.4 | 797.3 | 443.4 | 306.9 | 274.6 | 267.0 | 262.9 | 258.8 | 258.3 |
| 17.5° | 1843.8 | 1206.0 | 583.5 | 323.7 | 268.5 | 257.3 | 250.6 | 246.0 | 240.9 | 239.8 |
| 20° | 1820.7 | 1034.1 | 426.5 | 273.6 | 251.6 | 242.9 | 233.7 | 227.6 | 221.5 | 220.5 |
| 22.5° | 1778.3 | 852.6 | 327.8 | 253.2 | 239.3 | 229.6 | 218.4 | 211.3 | 205.1 | 204.1 |
| 25° | 1699.6 | 682.2 | 276.1 | 240.4 | 228.6 | 216.9 | 204.6 | 194.9 | 189.2 | 188.2 |
| 27.5° | 1599.8 | 536.0 | 250.6 | 228.6 | 214.8 | 204.1 | 190.2 | 181.0 | 175.9 | 174.9 |
| 30° | 1482.1 | 412.8 | 235.7 | 215.4 | 198.4 | 189.2 | 176.9 | 169.3 | 166.3 | 166.3 |
| 32.5° | 1355.4 | 329.8 | 229.6 | 202.0 | 184.1 | 173.8 | 164.2 | 161.1 | 160.1 | 159.6 |
| 35° | 1236.1 | 286.4 | 226.5 | 191.3 | 171.4 | 161.6 | 157.5 | 158.1 | 160.1 | 160.1 |
| 37.5° | 1130.3 | 272.6 | 225.0 | 183.6 | 160.1 | 151.4 | 154.0 | 158.6 | 156.5 | 156.5 |
| 40° | 1034.6 | 274.1 | 224.0 | 177.9 | 150.9 | 145.8 | 150.9 | 147.3 | 142.2 | 141.7 |
| 42.5° | 961.6 | 286.9 | 222.0 | 173.4 | 145.2 | 141.7 | 139.6 | 134.0 | 133.5 | 134.5 |
| 45° | 908.4 | 298.2 | 221.5 | 171.4 | 139.1 | 132.4 | 129.9 | 124.2 | 134.5 | 137.0 |
| 47.5° | 845.4 | 298.2 | 221.5 | 164.2 | 128.8 | 126.3 | 122.3 | 116.1 | 126.3 | 128.8 |
| 50° | 764.1 | 279.2 | 212.8 | 156.0 | 120.7 | 119.2 | 112.0 | 104.3 | 102.3 | 103.8 |
| 52.5° | 661.3 | 245.0 | 190.8 | 144.7 | 112.5 | 109.5 | 100.8 | 95.1 | 93.6 | 93.6 |
| 55° | 544.2 | 205.1 | 161.1 | 128.3 | 103.8 | 98.2 | 92.0 | 89.5 | 87.9 | 86.9 |
| 57.5° | 442.4 | 168.3 | 129.4 | 114.1 | 95.6 | 88.5 | 86.4 | 83.3 | 80.8 | 79.2 |
| 60° | 363.2 | 132.4 | 106.9 | 101.3 | 87.4 | 80.8 | 80.3 | 76.2 | 69.6 | 68.6 |
| 62.5° | 280.2 | 97.2 | 90.0 | 87.9 | 79.2 | 73.7 | 72.7 | 64.5 | 54.2 | 52.2 |
| 65° | 197.9 | 75.6 | 72.7 | 77.2 | 70.6 | 65.5 | 62.9 | 50.6 | 39.9 | 38.3 |
| 67.5° | 139.1 | 63.4 | 57.3 | 67.5 | 61.4 | 54.7 | 53.2 | 42.9 | 33.2 | 32.2 |
| 70° | 99.2 | 51.7 | 47.0 | 57.8 | 49.1 | 48.1 | 45.0 | 35.8 | 27.1 | 26.0 |
| 72.5° | 70.1 | 39.4 | 36.3 | 50.1 | 33.7 | 41.4 | 36.8 | 27.6 | 20.5 | 19.5 |
| 75° | 51.7 | 28.1 | 25.5 | 29.1 | 24.6 | 31.2 | 26.0 | 18.4 | 12.8 | 12.3 |
| 77.5° | 37.8 | 17.9 | 15.4 | 14.3 | 14.3 | 19.5 | 14.3 | 7.7 | 5.6 | 5.1 |
| 80° | 26.5 | 8.2 | 7.2 | 6.1 | 5.6 | 4.6 | 2.0 | 1.0 | 0.5 | 0.5 |
| 82.5° | 15.9 | 3.6 | 3.6 | 2.6 | 1.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 3.6 | 1.5 | 1.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.5 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)