

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: P882068

Luminaire Tested: **NVN-SB1D-735-U-T3-HSS**

Issue Date: 10/7/2024

Test Information

Test Method: LM-79-08
Report Number: P882068
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2405-108-6)
Test Lab: INNOVATION CENTER
Issue Date: 10/7/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: NVN-SB1D-735-U-T3-HSS
Description: NAVION ROADWAY AND AREA HIGH DENSITY LED LUMINAIRE
(1) 70 CRI, 3500K, 900mA LIGHTSQUARE WITH 26 LEDS AND TYPE III OPTICS
WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7988 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

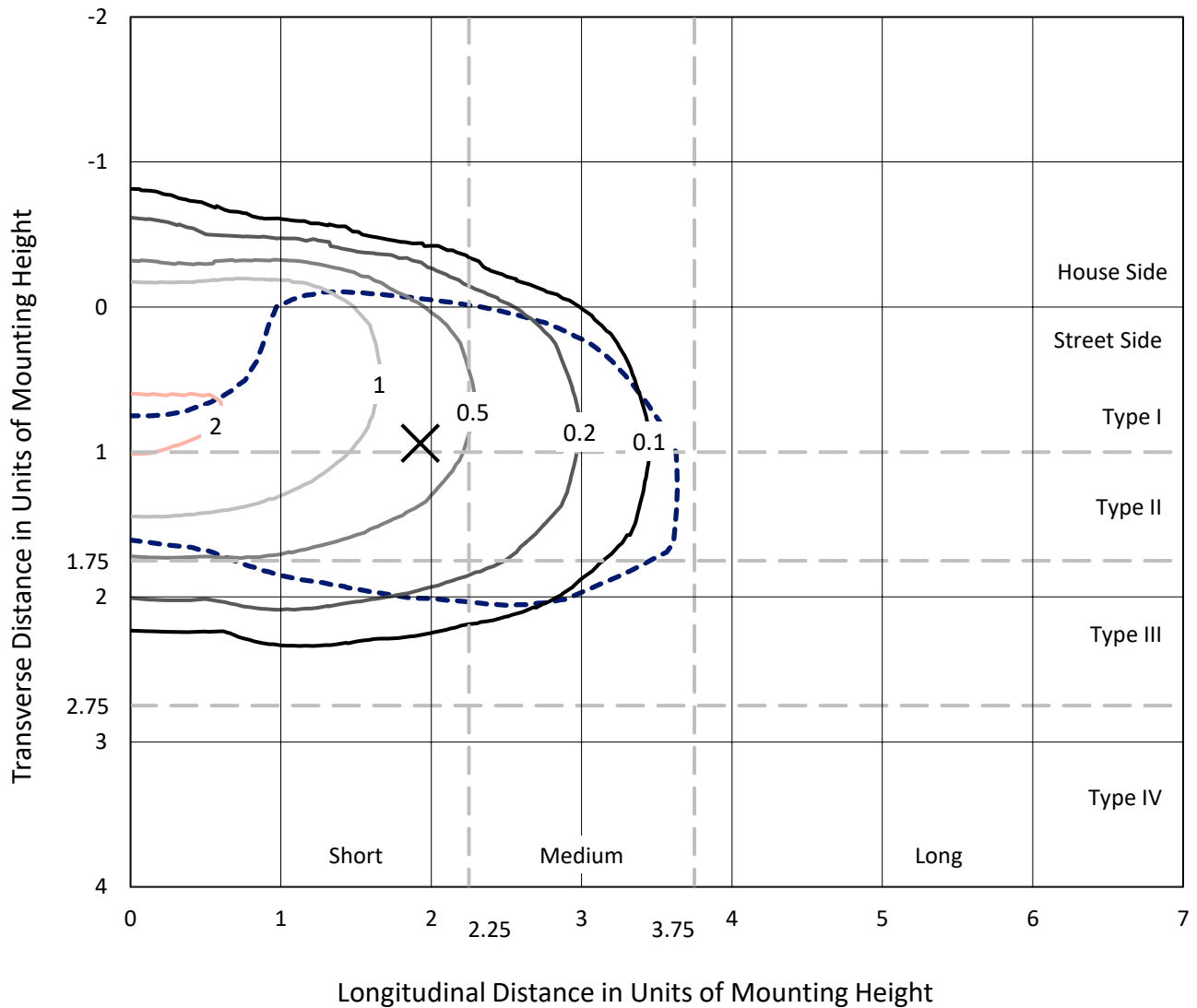
Input Watts (W): 79.6
Input Voltage (V): 120.0
Input Current (Ain): 0.638
Voltage Rise (V): NR
Power Factor: 0.997
Total Harmonic Distortion (THDi): 6.673
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

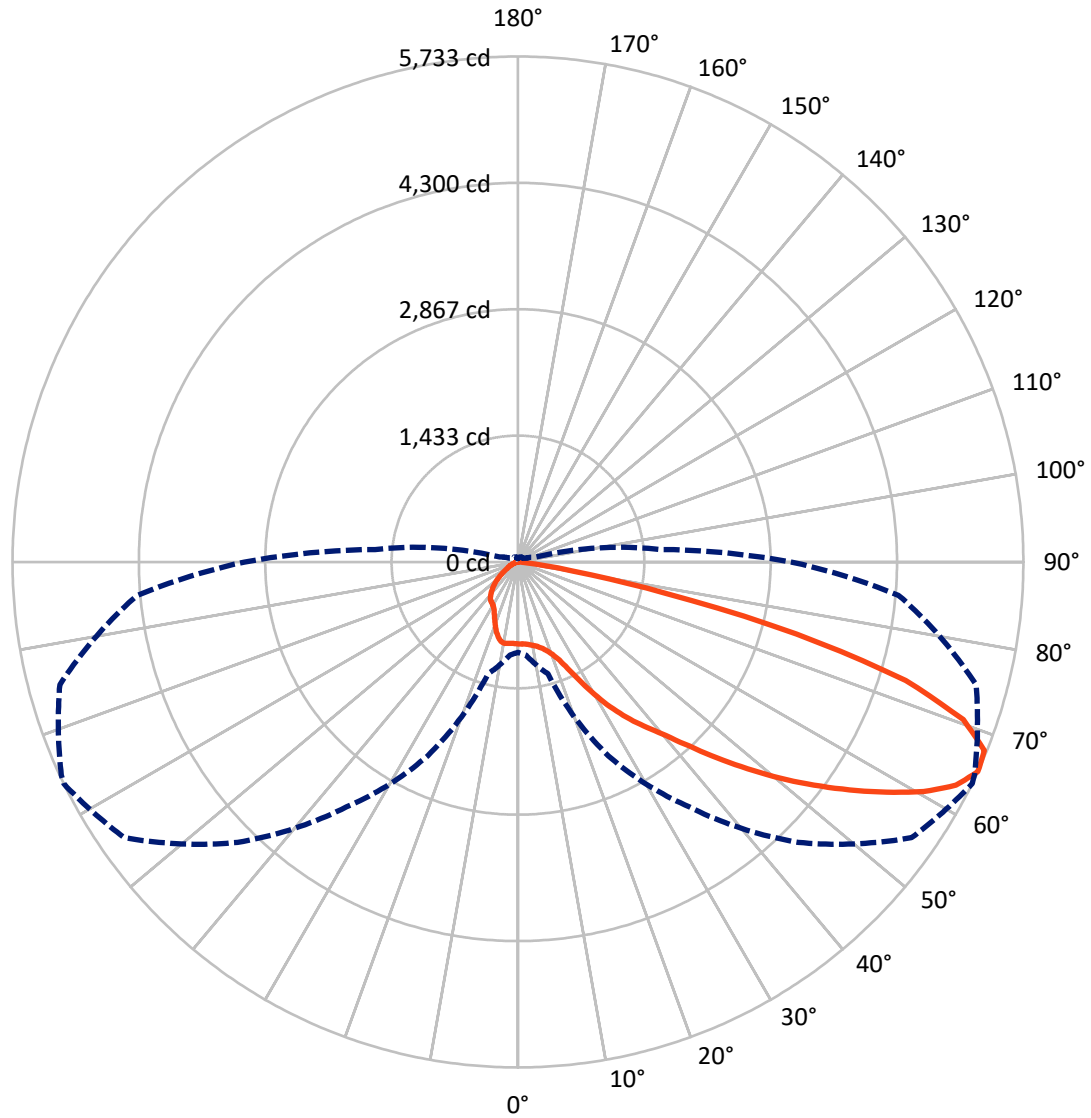
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 64-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1068.2 | 0.0 | 1068.2 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 6919.8 | 0.0 | 6919.8 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 7988.0 | 0.0 | 7988.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 85.7 | 1.1 |
| 10°-20° | 232.5 | 2.9 |
| 20°-30° | 440.5 | 5.5 |
| 30°-40° | 891.5 | 11.2 |
| 40°-50° | 1518.6 | 19.0 |
| 50°-60° | 2065.2 | 25.9 |
| 60°-70° | 1939.3 | 24.3 |
| 70°-80° | 777.0 | 9.7 |
| 80°-90° | 37.6 | 0.5 |
| 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° | 7988.0 | 100.0 |
| 0°-180° | 7988.0 | 100.0 |

Coefficient of Utilization



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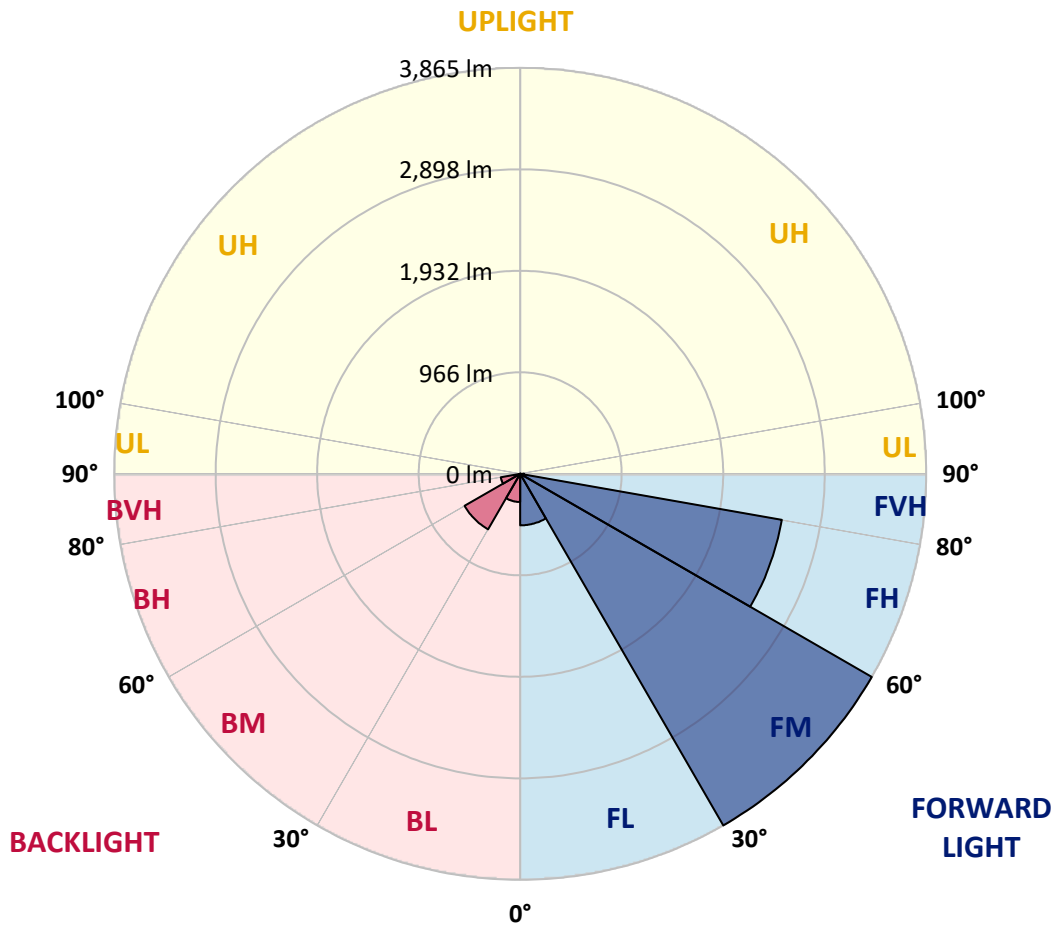
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 490.6 | 6.1 | | | |
| FM (30°-60°) | 3864.6 | 48.4 | | | |
| FH (60°-80°) | 2528.8 | 31.7 | | | G2/5000 |
| FVH (80°-90°) | 35.8 | 0.4 | | | G1/100 |
| BL (0°-30°) | 268.2 | 3.4 | B1/500 | | |
| BM (30°-60°) | 610.7 | 7.6 | B1/1000 | | |
| BH (60°-80°) | 187.5 | 2.3 | B1/500 | | G1/500 |
| BVH (80°-90°) | 1.8 | 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-G2

Type III Short



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 64° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 |
| 2.5° | 925.9 | 932.3 | 930.7 | 929.1 | 928.6 | 929.6 | 930.2 | 929.6 | 929.6 | 929.6 | 930.2 |
| 5° | 908.2 | 913.6 | 913.6 | 917.3 | 922.7 | 929.1 | 933.9 | 935.0 | 936.0 | 937.7 | 937.1 |
| 7.5° | 874.5 | 878.8 | 882.0 | 894.3 | 907.7 | 924.8 | 939.3 | 946.8 | 947.8 | 953.7 | 955.9 |
| 10° | 851.4 | 856.8 | 862.2 | 875.0 | 894.3 | 920.0 | 944.6 | 962.8 | 965.5 | 979.4 | 985.9 |
| 12.5° | 850.4 | 855.7 | 862.7 | 876.6 | 899.1 | 926.4 | 956.4 | 982.6 | 987.5 | 1007.8 | 1021.2 |
| 15° | 861.6 | 868.0 | 874.5 | 891.6 | 915.7 | 948.9 | 981.0 | 1013.7 | 1018.5 | 1047.4 | 1061.9 |
| 17.5° | 884.6 | 893.2 | 898.0 | 915.2 | 940.9 | 977.8 | 1020.1 | 1057.6 | 1061.9 | 1095.6 | 1113.8 |
| 20° | 930.2 | 940.3 | 941.9 | 955.9 | 981.0 | 1020.7 | 1071.0 | 1117.6 | 1122.9 | 1161.5 | 1181.8 |
| 22.5° | 1024.4 | 1038.9 | 1026.0 | 1033.0 | 1055.5 | 1095.1 | 1149.7 | 1208.6 | 1216.1 | 1260.0 | 1278.2 |
| 25° | 1190.4 | 1210.8 | 1177.6 | 1165.8 | 1175.4 | 1216.6 | 1285.2 | 1359.6 | 1368.2 | 1403.5 | 1412.6 |
| 27.5° | 1516.5 | 1490.3 | 1440.0 | 1390.7 | 1361.8 | 1385.3 | 1462.4 | 1554.5 | 1565.3 | 1599.5 | 1588.8 |
| 30° | 1874.8 | 1851.7 | 1783.7 | 1674.5 | 1606.0 | 1602.2 | 1673.4 | 1776.2 | 1788.6 | 1821.2 | 1788.6 |
| 32.5° | 2233.6 | 2211.6 | 2137.7 | 2003.3 | 1884.4 | 1825.5 | 1874.8 | 1988.8 | 1995.3 | 2016.1 | 1968.0 |
| 35° | 2586.5 | 2564.0 | 2490.1 | 2352.4 | 2206.2 | 2072.4 | 2062.7 | 2191.3 | 2193.4 | 2215.4 | 2143.6 |
| 37.5° | 2941.5 | 2922.7 | 2844.0 | 2709.1 | 2565.0 | 2380.3 | 2290.9 | 2383.0 | 2385.6 | 2407.1 | 2332.6 |
| 40° | 3194.8 | 3202.8 | 3148.7 | 3044.3 | 2920.6 | 2718.7 | 2546.8 | 2587.0 | 2570.9 | 2606.8 | 2562.4 |
| 42.5° | 3412.2 | 3428.3 | 3381.1 | 3328.6 | 3256.9 | 3079.1 | 2863.8 | 2856.9 | 2831.2 | 2850.5 | 2804.4 |
| 45° | 3600.1 | 3613.5 | 3571.2 | 3558.9 | 3557.3 | 3432.5 | 3210.3 | 3168.5 | 3132.7 | 3128.9 | 3073.8 |
| 47.5° | 3669.2 | 3694.9 | 3713.1 | 3754.4 | 3834.7 | 3782.2 | 3568.6 | 3503.8 | 3463.6 | 3434.1 | 3346.9 |
| 50° | 3695.5 | 3722.8 | 3784.9 | 3904.8 | 4094.9 | 4117.4 | 3925.2 | 3852.4 | 3803.1 | 3749.6 | 3621.0 |
| 52.5° | 3660.1 | 3708.9 | 3792.4 | 3994.3 | 4270.1 | 4386.3 | 4267.4 | 4203.7 | 4147.4 | 4060.1 | 3869.5 |
| 55° | 3451.8 | 3500.5 | 3671.4 | 3993.2 | 4357.3 | 4574.8 | 4590.8 | 4562.4 | 4499.2 | 4361.6 | 4070.3 |
| 57.5° | 3012.7 | 3085.0 | 3355.4 | 3857.2 | 4355.7 | 4737.0 | 4907.8 | 4928.2 | 4857.5 | 4660.4 | 4228.3 |
| 60° | 2404.4 | 2502.4 | 2832.2 | 3555.7 | 4221.3 | 4824.8 | 5185.8 | 5287.5 | 5212.5 | 4955.0 | 4356.3 |
| 62.5° | 1677.7 | 1791.2 | 2103.4 | 3083.4 | 3913.9 | 4761.6 | 5388.7 | 5576.7 | 5519.9 | 5218.4 | 4405.5 |
| 65° | 1023.3 | 1059.7 | 1311.4 | 2426.3 | 3391.3 | 4497.1 | 5451.4 | 5733.0 | 5714.3 | 5379.6 | 4332.7 |
| 67.5° | 681.7 | 712.2 | 784.5 | 1663.8 | 2632.5 | 3968.6 | 5301.4 | 5705.7 | 5711.1 | 5353.4 | 4066.0 |
| 70° | 410.7 | 437.0 | 484.1 | 967.6 | 1706.1 | 3141.2 | 4837.1 | 5357.6 | 5388.7 | 5002.6 | 3560.5 |
| 72.5° | 169.2 | 186.9 | 229.7 | 438.6 | 883.6 | 1993.7 | 3851.8 | 4599.9 | 4672.2 | 4206.3 | 2732.6 |
| 75° | 95.9 | 105.0 | 134.9 | 220.1 | 383.4 | 929.1 | 2333.2 | 3265.5 | 3372.0 | 2899.2 | 1644.0 |
| 77.5° | 63.7 | 68.0 | 87.3 | 142.4 | 215.8 | 317.0 | 997.1 | 1701.3 | 1904.8 | 1583.5 | 711.7 |
| 80° | 42.8 | 46.6 | 60.0 | 95.3 | 140.3 | 136.0 | 317.5 | 630.3 | 775.4 | 544.1 | 173.5 |
| 82.5° | 28.9 | 29.5 | 42.8 | 62.7 | 88.9 | 65.9 | 93.7 | 196.0 | 246.3 | 157.4 | 65.9 |
| 85° | 16.6 | 16.1 | 31.6 | 36.4 | 39.6 | 27.3 | 28.4 | 58.9 | 77.1 | 66.4 | 37.5 |
| 87.5° | 2.1 | 3.2 | 12.3 | 9.6 | 5.4 | 5.9 | 5.9 | 10.2 | 15.0 | 16.1 | 8.0 |
| 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):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|-------|-------|-------|-------|-------|-------|-------|-------|
| 0° | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 | 929.1 |
| 2.5° | 930.2 | 929.6 | 928.0 | 926.4 | 922.7 | 920.5 | 921.6 | 920.5 | 920.0 | 920.5 | 922.7 |
| 5° | 937.1 | 935.5 | 931.2 | 925.9 | 918.4 | 909.3 | 903.4 | 894.8 | 886.8 | 882.0 | 883.0 |
| 7.5° | 955.9 | 954.3 | 948.4 | 933.4 | 909.3 | 871.3 | 836.4 | 805.9 | 782.9 | 769.5 | 770.0 |
| 10° | 985.9 | 983.2 | 974.1 | 940.9 | 877.7 | 794.7 | 725.6 | 668.3 | 630.8 | 613.1 | 611.5 |
| 12.5° | 1021.2 | 1018.0 | 1001.9 | 933.9 | 817.7 | 688.1 | 592.8 | 529.1 | 494.3 | 478.7 | 477.1 |
| 15° | 1063.0 | 1058.7 | 1027.1 | 900.7 | 730.4 | 570.3 | 483.0 | 435.4 | 412.9 | 398.9 | 399.5 |
| 17.5° | 1114.9 | 1107.4 | 1045.8 | 850.9 | 635.6 | 480.3 | 415.5 | 379.7 | 359.9 | 346.5 | 345.4 |
| 20° | 1182.4 | 1170.1 | 1060.8 | 791.5 | 548.3 | 423.6 | 370.0 | 340.0 | 325.0 | 313.3 | 311.1 |
| 22.5° | 1276.6 | 1259.0 | 1079.0 | 727.2 | 486.8 | 384.5 | 336.3 | 314.3 | 302.0 | 288.6 | 286.5 |
| 25° | 1393.4 | 1372.5 | 1101.5 | 667.8 | 444.5 | 350.8 | 311.7 | 293.5 | 279.0 | 263.5 | 261.9 |
| 27.5° | 1556.7 | 1519.2 | 1128.3 | 619.0 | 408.0 | 321.8 | 289.2 | 268.8 | 252.2 | 239.4 | 236.7 |
| 30° | 1738.8 | 1677.2 | 1151.9 | 589.6 | 374.8 | 295.1 | 259.7 | 239.4 | 223.8 | 214.7 | 213.1 |
| 32.5° | 1911.2 | 1827.7 | 1167.4 | 576.7 | 344.9 | 264.5 | 227.6 | 205.6 | 193.8 | 191.2 | 192.8 |
| 35° | 2074.0 | 1963.7 | 1165.8 | 564.4 | 318.1 | 234.0 | 196.0 | 173.5 | 164.4 | 166.0 | 166.0 |
| 37.5° | 2261.4 | 2108.8 | 1154.5 | 545.1 | 296.1 | 206.2 | 168.7 | 148.9 | 140.8 | 141.4 | 143.5 |
| 40° | 2479.4 | 2276.4 | 1147.6 | 508.7 | 272.0 | 180.5 | 146.2 | 130.1 | 124.2 | 122.1 | 121.6 |
| 42.5° | 2711.8 | 2438.7 | 1148.6 | 467.5 | 242.0 | 157.4 | 130.7 | 117.3 | 111.9 | 110.3 | 109.8 |
| 45° | 2945.2 | 2593.4 | 1150.2 | 424.6 | 210.5 | 139.8 | 119.4 | 108.2 | 105.0 | 102.8 | 102.8 |
| 47.5° | 3164.8 | 2725.1 | 1120.3 | 378.6 | 179.4 | 126.4 | 110.3 | 102.8 | 100.1 | 97.5 | 97.5 |
| 50° | 3369.3 | 2813.0 | 1048.0 | 325.0 | 154.8 | 115.7 | 103.4 | 98.0 | 95.3 | 92.6 | 92.6 |
| 52.5° | 3528.4 | 2826.9 | 928.6 | 269.9 | 137.6 | 107.6 | 99.1 | 94.2 | 91.0 | 88.4 | 87.8 |
| 55° | 3599.1 | 2739.6 | 758.8 | 218.5 | 124.2 | 100.7 | 94.8 | 90.0 | 86.2 | 83.5 | 83.0 |
| 57.5° | 3580.9 | 2555.9 | 591.7 | 175.6 | 111.4 | 93.7 | 89.4 | 86.2 | 81.9 | 77.6 | 77.1 |
| 60° | 3491.4 | 2310.1 | 446.1 | 146.2 | 99.6 | 86.2 | 83.5 | 80.9 | 75.0 | 68.5 | 67.5 |
| 62.5° | 3336.7 | 2001.2 | 318.1 | 121.0 | 86.8 | 77.6 | 76.6 | 74.4 | 65.9 | 54.1 | 53.0 |
| 65° | 3100.0 | 1625.8 | 214.2 | 100.7 | 74.4 | 68.0 | 68.5 | 64.8 | 53.5 | 40.2 | 39.1 |
| 67.5° | 2754.1 | 1188.8 | 137.1 | 82.5 | 62.1 | 56.8 | 57.3 | 55.2 | 45.5 | 34.3 | 32.7 |
| 70° | 2313.3 | 787.2 | 89.4 | 62.7 | 49.8 | 43.9 | 47.1 | 47.7 | 38.6 | 27.8 | 26.8 |
| 72.5° | 1695.9 | 464.8 | 62.7 | 46.6 | 36.4 | 30.5 | 38.6 | 39.6 | 31.1 | 20.9 | 19.8 |
| 75° | 966.6 | 220.6 | 47.1 | 33.7 | 22.5 | 21.4 | 30.0 | 30.0 | 21.4 | 13.9 | 12.9 |
| 77.5° | 405.9 | 92.1 | 33.2 | 22.0 | 12.9 | 12.3 | 20.3 | 18.7 | 10.7 | 6.4 | 6.4 |
| 80° | 117.3 | 41.2 | 17.7 | 10.7 | 5.4 | 4.8 | 8.0 | 5.9 | 2.7 | 1.1 | 1.1 |
| 82.5° | 46.1 | 18.2 | 7.0 | 4.3 | 2.1 | 2.1 | 1.1 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 27.3 | 7.5 | 3.2 | 1.6 | 0.5 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 7.0 | 1.6 | 1.1 | 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 | 0.0 |

(END OF REPORT)