

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: P368346

Luminaire Tested: **PMM-SA4B-730-U-SL4**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368346
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-20)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4B-730-U-SL4
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17235 lumens
Efficiency: N/A
Efficacy: 100.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

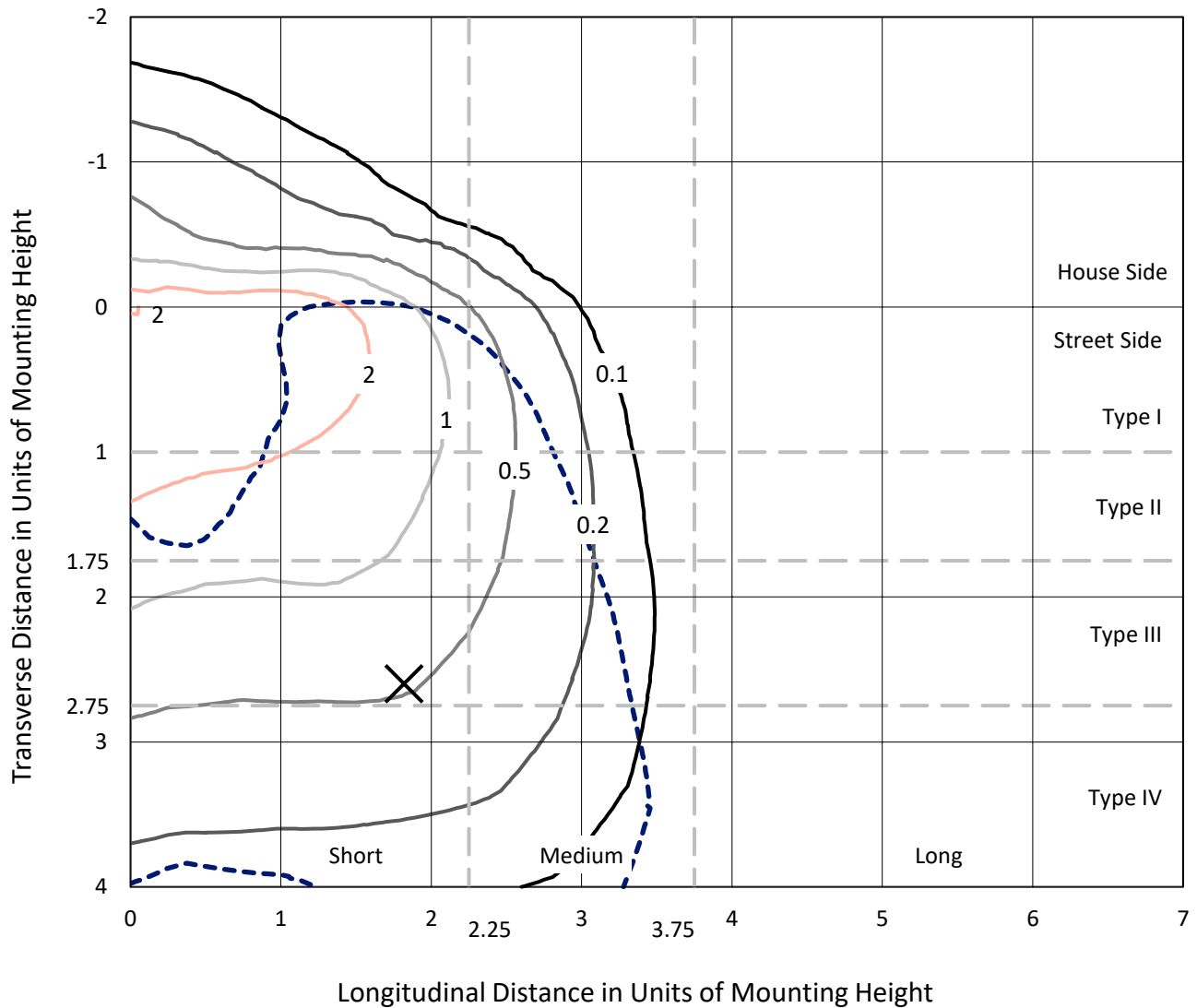
Input Watts (W): 171
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

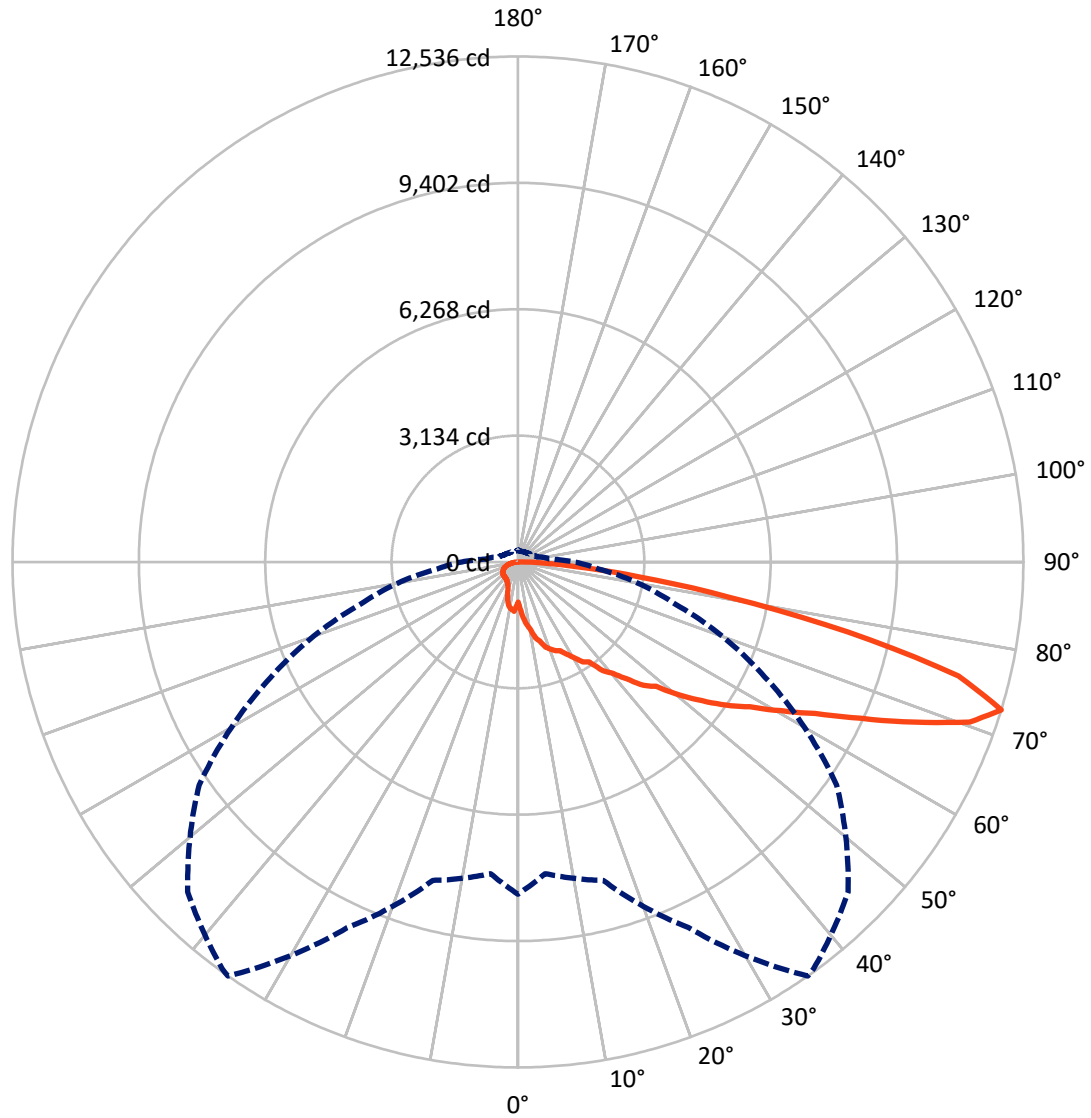
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 2312.9 | 0.0 | 2312.9 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 14922.1 | 0.0 | 14922.1 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 17235.0 | 0.0 | 17235.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 132.4 | 0.8 |
| 10°-20° | 466.3 | 2.7 |
| 20°-30° | 810.2 | 4.7 |
| 30°-40° | 1354.1 | 7.9 |
| 40°-50° | 2350.3 | 13.6 |
| 50°-60° | 3553.0 | 20.6 |
| 60°-70° | 4602.9 | 26.7 |
| 70°-80° | 3396.5 | 19.7 |
| 80°-90° | 569.2 | 3.3 |
| 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° | 17235.0 | 100.0 |
| 0°-180° | 17235.0 | 100.0 |

Coefficient of Utilization

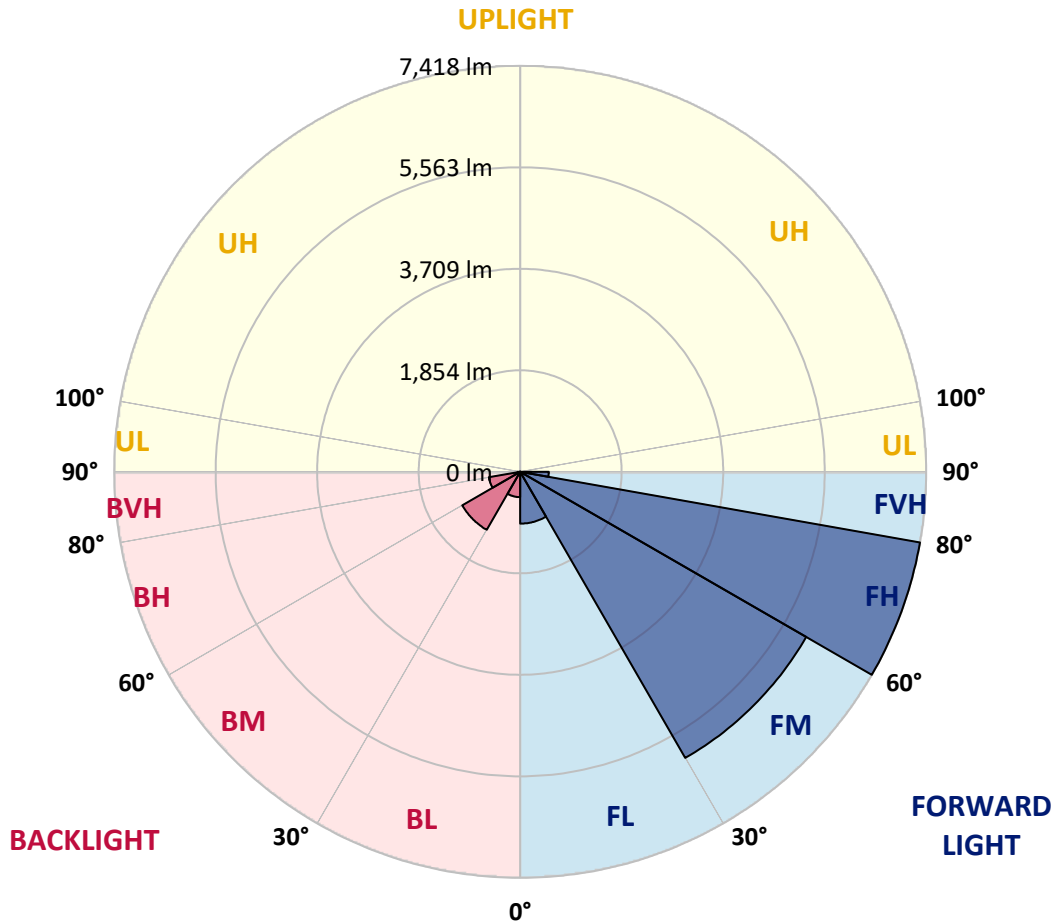


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 946.6 | 5.5 | | | |
| FM (30°-60°) | 6035.1 | 35.0 | | | |
| FH (60°-80°) | 7417.8 | 43.0 | | | G3/7500 |
| FVH (80°-90°) | 522.6 | 3.0 | | | G4/750 |
| BL (0°-30°) | 462.3 | 2.7 | B1/500 | | |
| BM (30°-60°) | 1222.4 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 581.6 | 3.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 46.6 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B2-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 36° | 45° | 55° | 65° | 75° | 85° |
|-------|--------|--------|--------|---------|---------|---------|---------|---------|--------|--------|--------|
| 0° | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 |
| 2.5° | 1242.4 | 1182.9 | 1131.4 | 1129.2 | 1177.0 | 1195.4 | 1188.0 | 1171.8 | 1152.7 | 1112.2 | 1200.5 |
| 5° | 1556.6 | 1471.2 | 1455.0 | 1435.9 | 1392.5 | 1404.3 | 1333.7 | 1387.4 | 1404.3 | 1443.3 | 1502.1 |
| 7.5° | 1741.9 | 1691.9 | 1652.9 | 1636.7 | 1561.7 | 1552.9 | 1500.6 | 1577.2 | 1609.5 | 1604.4 | 1691.9 |
| 10° | 1814.8 | 1769.1 | 1772.1 | 1719.1 | 1694.8 | 1705.1 | 1711.0 | 1712.5 | 1732.4 | 1748.5 | 1704.4 |
| 12.5° | 1852.3 | 1869.9 | 1934.7 | 1898.6 | 1929.5 | 1942.0 | 2003.8 | 1940.5 | 1942.8 | 1859.6 | 1905.2 |
| 15° | 2041.3 | 2085.5 | 2047.9 | 2046.5 | 2036.9 | 2057.5 | 2110.5 | 2067.8 | 2100.9 | 2074.4 | 2015.6 |
| 17.5° | 2269.4 | 2282.6 | 2210.5 | 2181.1 | 2219.3 | 2212.7 | 2199.5 | 2206.1 | 2123.7 | 2276.7 | 2204.6 |
| 20° | 2339.2 | 2391.5 | 2296.6 | 2181.1 | 2307.6 | 2324.5 | 2321.6 | 2292.9 | 2151.7 | 2372.3 | 2302.5 |
| 22.5° | 2542.3 | 2471.7 | 2396.6 | 2323.1 | 2387.8 | 2397.4 | 2381.2 | 2312.8 | 2265.7 | 2349.5 | 2404.7 |
| 25° | 2634.2 | 2617.3 | 2521.7 | 2512.8 | 2441.5 | 2407.7 | 2435.6 | 2415.7 | 2369.4 | 2518.7 | 2457.7 |
| 27.5° | 2844.6 | 2824.7 | 2604.8 | 2695.3 | 2591.6 | 2582.7 | 2434.9 | 2501.1 | 2547.4 | 2536.4 | 2627.6 |
| 30° | 3082.9 | 3105.8 | 2784.3 | 2874.8 | 2754.9 | 2738.7 | 2590.1 | 2673.9 | 2705.6 | 2715.9 | 2829.9 |
| 32.5° | 3347.8 | 3410.3 | 3091.0 | 3016.7 | 2952.7 | 2963.8 | 2838.0 | 2685.0 | 2807.8 | 3048.4 | 3097.7 |
| 35° | 3634.7 | 3660.4 | 3325.7 | 3213.9 | 3046.9 | 3035.1 | 3037.3 | 3056.5 | 3180.8 | 3455.2 | 3493.4 |
| 37.5° | 4165.0 | 4045.9 | 3752.4 | 3469.1 | 3413.2 | 3303.6 | 3377.9 | 3436.8 | 3561.1 | 3981.9 | 4142.2 |
| 40° | 4491.6 | 4403.4 | 3956.1 | 3792.1 | 3637.6 | 3647.9 | 3786.9 | 3786.2 | 4079.7 | 4513.7 | 4758.7 |
| 42.5° | 4794.0 | 4697.6 | 4276.1 | 4111.3 | 3964.9 | 4001.0 | 4040.7 | 4110.6 | 4673.3 | 5372.9 | 5484.7 |
| 45° | 5037.5 | 4826.3 | 4523.3 | 4486.5 | 4365.9 | 4318.0 | 4486.5 | 4598.3 | 5383.2 | 6068.1 | 6132.8 |
| 47.5° | 5203.0 | 5029.4 | 4732.9 | 4700.6 | 4611.5 | 4728.5 | 5188.3 | 5260.4 | 5933.4 | 6766.2 | 6761.0 |
| 50° | 5454.6 | 5217.0 | 4949.2 | 4932.3 | 5183.1 | 5245.6 | 5806.2 | 5798.8 | 6469.0 | 7345.8 | 7224.4 |
| 52.5° | 5744.4 | 5445.0 | 5154.4 | 5336.1 | 5718.6 | 5749.5 | 6235.8 | 6433.7 | 7053.8 | 7904.9 | 7587.8 |
| 55° | 6077.6 | 5742.9 | 5461.9 | 5704.7 | 6274.0 | 6182.8 | 6674.9 | 7158.2 | 7785.7 | 8494.1 | 7850.4 |
| 57.5° | 6490.3 | 6084.2 | 5856.9 | 6226.2 | 6780.9 | 6861.8 | 7303.9 | 7912.2 | 8374.9 | 8860.4 | 8041.7 |
| 60° | 6925.8 | 6449.1 | 6240.9 | 6592.6 | 7490.7 | 7583.4 | 8016.0 | 8539.0 | 9035.5 | 9205.4 | 8005.7 |
| 62.5° | 7341.4 | 6825.7 | 6637.4 | 7071.4 | 8277.8 | 8507.3 | 8826.6 | 9159.8 | 9585.0 | 9289.3 | 7569.4 |
| 65° | 7804.1 | 7287.7 | 7169.3 | 7820.3 | 9345.2 | 9573.2 | 9990.3 | 9890.3 | 9773.3 | 8992.1 | 6847.8 |
| 67.5° | 8294.0 | 7769.5 | 7791.6 | 8689.0 | 10603.8 | 10642.8 | 11283.5 | 10618.6 | 9551.9 | 8205.0 | 5636.3 |
| 70° | 8557.4 | 8020.4 | 8247.7 | 9615.2 | 11884.5 | 11828.6 | 11959.6 | 10814.2 | 8649.3 | 6485.9 | 3884.8 |
| 72.5° | 8238.1 | 7759.2 | 8175.6 | 10005.1 | 12536.3 | 12476.0 | 11580.0 | 9652.7 | 6762.5 | 4033.4 | 2014.1 |
| 75° | 6975.1 | 6513.1 | 7150.1 | 8918.6 | 11285.8 | 11341.7 | 9855.0 | 7178.1 | 3871.5 | 1622.0 | 836.4 |
| 77.5° | 4739.5 | 4501.2 | 5047.0 | 6647.7 | 8383.0 | 8576.5 | 7312.0 | 4197.4 | 1625.7 | 671.6 | 506.1 |
| 80° | 2504.8 | 2391.5 | 2794.6 | 3829.6 | 5308.2 | 5452.4 | 4299.6 | 2090.6 | 832.7 | 434.7 | 361.2 |
| 82.5° | 1360.9 | 1313.1 | 1529.3 | 1969.2 | 3016.0 | 3141.8 | 2229.6 | 1388.8 | 561.3 | 272.2 | 220.7 |
| 85° | 914.4 | 896.0 | 1039.4 | 1057.8 | 1426.4 | 1467.5 | 1168.2 | 1069.6 | 336.9 | 133.1 | 145.7 |
| 87.5° | 457.6 | 439.2 | 547.3 | 483.3 | 544.4 | 545.1 | 535.5 | 682.6 | 85.3 | 44.1 | 26.5 |
| 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° | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 | 996.0 |
| 2.5° | 1202.0 | 1176.2 | 1087.2 | 1086.5 | 1099.7 | 1090.9 | 1097.5 | 1061.5 | 1046.0 | 1116.7 | 1113.0 |
| 5° | 1494.0 | 1416.8 | 1342.5 | 1316.7 | 1286.6 | 1221.1 | 1224.8 | 1225.5 | 1214.5 | 1256.4 | 1259.4 |
| 7.5° | 1665.4 | 1572.7 | 1504.3 | 1367.5 | 1260.1 | 1176.2 | 1187.3 | 1199.8 | 1187.3 | 1243.2 | 1263.8 |
| 10° | 1690.4 | 1616.9 | 1535.2 | 1382.9 | 1311.6 | 1235.8 | 1159.3 | 1091.6 | 1083.6 | 1057.8 | 1065.9 |
| 12.5° | 1839.0 | 1778.0 | 1607.3 | 1440.3 | 1357.2 | 1241.0 | 1101.2 | 1024.0 | 959.2 | 970.3 | 949.7 |
| 15° | 1961.1 | 1917.7 | 1713.2 | 1494.8 | 1296.1 | 1152.0 | 1003.4 | 897.4 | 839.3 | 832.7 | 812.1 |
| 17.5° | 2126.7 | 2064.9 | 1722.8 | 1457.2 | 1217.4 | 1044.6 | 876.8 | 756.9 | 731.9 | 721.6 | 711.3 |
| 20° | 2206.1 | 2095.0 | 1688.2 | 1339.5 | 1125.5 | 916.6 | 751.8 | 648.8 | 641.5 | 659.8 | 656.2 |
| 22.5° | 2275.2 | 2120.0 | 1657.3 | 1268.2 | 982.0 | 787.1 | 666.5 | 598.8 | 590.7 | 614.2 | 618.6 |
| 25° | 2315.7 | 2191.4 | 1623.5 | 1195.4 | 893.0 | 690.7 | 602.5 | 564.2 | 565.7 | 596.6 | 592.9 |
| 27.5° | 2498.1 | 2216.4 | 1538.2 | 1109.3 | 790.8 | 619.4 | 571.6 | 551.7 | 543.6 | 586.3 | 590.0 |
| 30° | 2612.9 | 2379.7 | 1519.0 | 1018.1 | 715.0 | 567.2 | 543.6 | 535.5 | 534.1 | 585.5 | 589.2 |
| 32.5° | 2826.2 | 2434.1 | 1527.9 | 918.8 | 646.6 | 551.0 | 523.0 | 522.3 | 537.0 | 586.3 | 592.2 |
| 35° | 3121.9 | 2663.6 | 1485.2 | 862.1 | 609.1 | 526.0 | 506.8 | 512.7 | 537.7 | 591.4 | 599.5 |
| 37.5° | 3698.7 | 2879.9 | 1498.4 | 809.2 | 596.6 | 517.9 | 502.4 | 506.1 | 546.6 | 604.7 | 626.7 |
| 40° | 4155.5 | 3272.0 | 1477.8 | 782.7 | 579.7 | 516.4 | 492.9 | 507.6 | 545.8 | 612.0 | 631.9 |
| 42.5° | 4817.5 | 3584.6 | 1480.1 | 756.2 | 578.9 | 510.5 | 491.4 | 509.0 | 544.4 | 605.4 | 632.6 |
| 45° | 5385.4 | 3864.9 | 1511.7 | 740.8 | 571.6 | 520.1 | 489.2 | 511.3 | 534.8 | 581.9 | 612.0 |
| 47.5° | 5851.1 | 4177.5 | 1544.0 | 726.0 | 568.6 | 528.9 | 487.0 | 495.8 | 518.6 | 555.4 | 582.6 |
| 50° | 6230.6 | 4397.5 | 1585.2 | 723.1 | 568.6 | 524.5 | 481.1 | 480.4 | 499.5 | 528.9 | 554.7 |
| 52.5° | 6526.3 | 4552.7 | 1613.2 | 726.8 | 568.6 | 507.6 | 473.7 | 467.8 | 479.6 | 501.0 | 526.7 |
| 55° | 6740.4 | 4600.5 | 1590.4 | 736.3 | 567.9 | 492.1 | 460.5 | 455.3 | 461.2 | 475.9 | 500.2 |
| 57.5° | 6826.5 | 4474.7 | 1454.3 | 719.4 | 567.9 | 481.1 | 444.3 | 438.4 | 444.3 | 455.3 | 479.6 |
| 60° | 6610.9 | 4070.1 | 1257.9 | 676.0 | 556.9 | 466.4 | 425.9 | 422.2 | 431.1 | 440.6 | 464.2 |
| 62.5° | 6070.3 | 3532.4 | 1048.2 | 624.5 | 534.1 | 453.9 | 408.3 | 409.0 | 423.0 | 436.2 | 459.8 |
| 65° | 5230.2 | 2882.1 | 873.9 | 572.3 | 505.4 | 434.0 | 389.9 | 395.0 | 414.9 | 432.5 | 456.1 |
| 67.5° | 4115.7 | 2135.5 | 735.6 | 521.5 | 464.9 | 401.6 | 369.3 | 370.7 | 384.7 | 401.6 | 424.4 |
| 70° | 2751.2 | 1358.7 | 604.7 | 462.0 | 411.9 | 359.7 | 337.6 | 332.5 | 328.8 | 343.5 | 363.4 |
| 72.5° | 1395.5 | 802.6 | 496.5 | 395.0 | 354.6 | 314.1 | 297.2 | 283.9 | 273.6 | 282.5 | 297.9 |
| 75° | 731.2 | 561.3 | 400.9 | 328.1 | 292.8 | 267.0 | 254.5 | 236.9 | 229.5 | 234.7 | 245.7 |
| 77.5° | 517.1 | 439.2 | 324.4 | 259.7 | 238.3 | 211.9 | 214.1 | 195.7 | 189.8 | 192.7 | 204.5 |
| 80° | 397.2 | 347.9 | 249.4 | 196.4 | 183.9 | 158.2 | 165.5 | 154.5 | 147.1 | 145.7 | 154.5 |
| 82.5° | 270.7 | 261.9 | 177.3 | 137.6 | 128.7 | 110.3 | 120.6 | 116.2 | 106.7 | 100.8 | 105.2 |
| 85° | 182.4 | 173.6 | 108.1 | 79.4 | 75.8 | 57.4 | 73.6 | 70.6 | 62.5 | 53.7 | 54.4 |
| 87.5° | 31.6 | 58.1 | 30.9 | 19.9 | 18.4 | 6.6 | 16.9 | 16.2 | 14.7 | 7.4 | 5.9 |
| 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)