

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: P368082

Luminaire Tested: **PMM-SA3D-730-U-SL4**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368082
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-SA3D-730-U-SL4
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) 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: 17657 lumens
Efficiency: N/A
Efficacy: 92.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G4

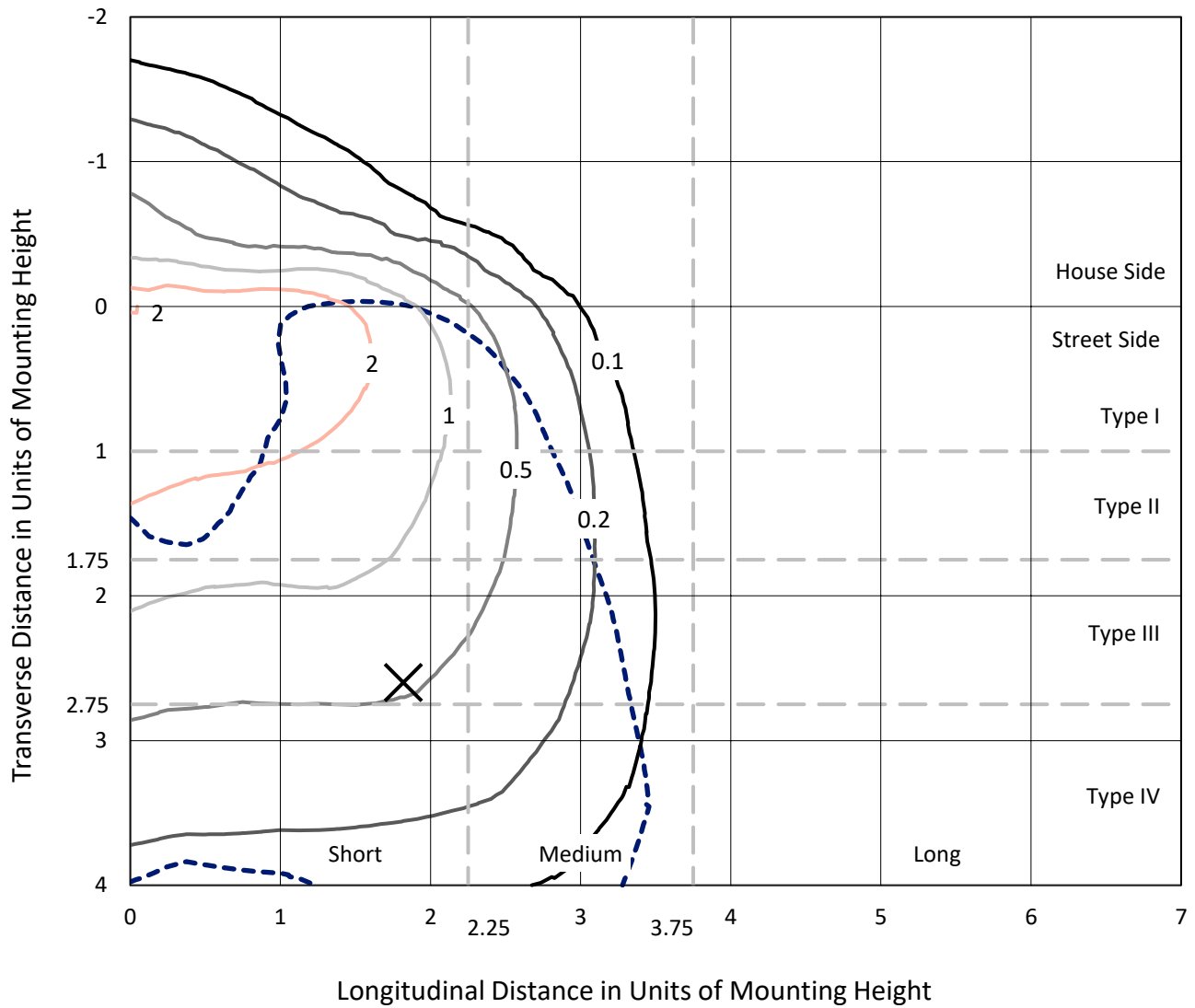
Input Watts (W): 192
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

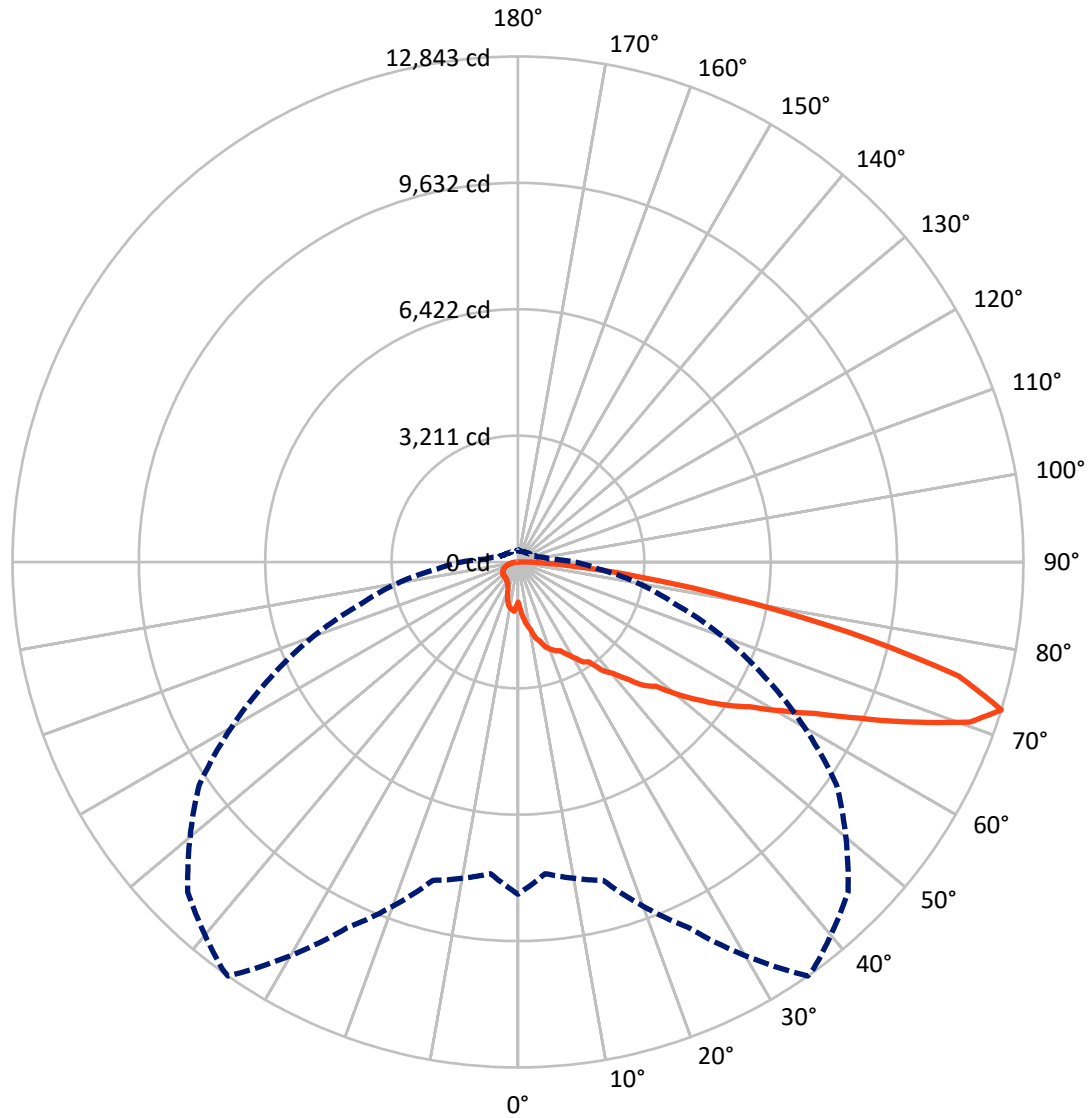
✕ Max cd
 - - - 1/2 Max cd



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 | 2369.5 | 0.0 | 2369.5 |
| | % Fixture | 13.4 | 0.0 | 13.4 |
| Street Side | Lumens | 15287.5 | 0.0 | 15287.5 |
| | % Fixture | 86.6 | 0.0 | 86.6 |
| Total | Lumens | 17657.0 | 0.0 | 17657.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 135.6 | 0.8 |
| 10°-20° | 477.7 | 2.7 |
| 20°-30° | 830.0 | 4.7 |
| 30°-40° | 1387.3 | 7.9 |
| 40°-50° | 2407.8 | 13.6 |
| 50°-60° | 3640.0 | 20.6 |
| 60°-70° | 4715.6 | 26.7 |
| 70°-80° | 3479.6 | 19.7 |
| 80°-90° | 583.2 | 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° | 17657.0 | 100.0 |
| 0°-180° | 17657.0 | 100.0 |

Coefficient of Utilization

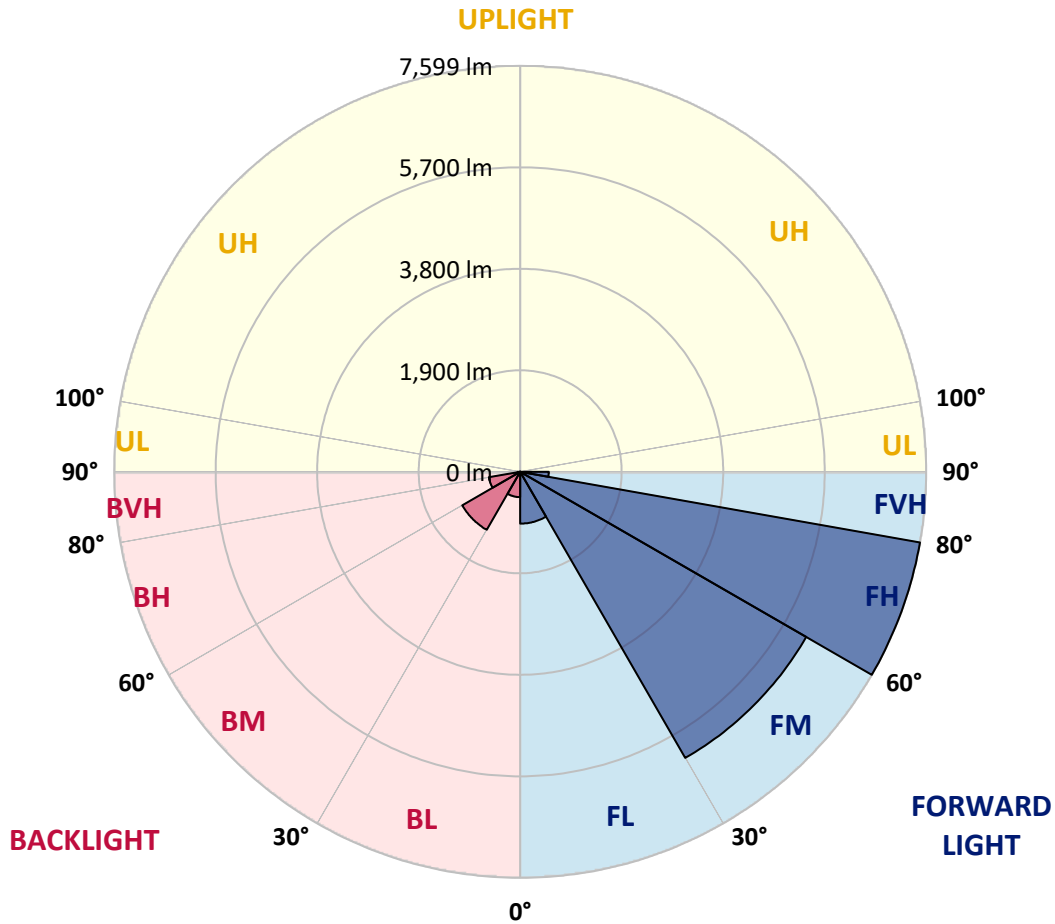


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 969.8 | 5.5 | | | |
| FM (30°-60°) | 6182.9 | 35.0 | | | |
| FH (60°-80°) | 7599.4 | 43.0 | | | G4/12000 |
| FVH (80°-90°) | 535.4 | 3.0 | | | G4/750 |
| BL (0°-30°) | 473.6 | 2.7 | B1/500 | | |
| BM (30°-60°) | 1252.3 | 7.1 | B2/2500 | | |
| BH (60°-80°) | 595.8 | 3.4 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 47.7 | 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° | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 |
| 2.5° | 1272.9 | 1211.8 | 1159.1 | 1156.8 | 1205.8 | 1224.6 | 1217.1 | 1200.5 | 1180.9 | 1139.5 | 1229.9 |
| 5° | 1594.7 | 1507.2 | 1490.7 | 1471.1 | 1426.6 | 1438.7 | 1366.3 | 1421.3 | 1438.7 | 1478.6 | 1538.9 |
| 7.5° | 1784.6 | 1733.3 | 1693.4 | 1676.8 | 1599.9 | 1590.9 | 1537.4 | 1615.8 | 1648.9 | 1643.7 | 1733.3 |
| 10° | 1859.2 | 1812.5 | 1815.5 | 1761.2 | 1736.3 | 1746.9 | 1752.9 | 1754.4 | 1774.8 | 1791.4 | 1746.1 |
| 12.5° | 1897.6 | 1915.7 | 1982.0 | 1945.1 | 1976.8 | 1989.6 | 2052.9 | 1988.1 | 1990.3 | 1905.2 | 1951.9 |
| 15° | 2091.3 | 2136.5 | 2098.1 | 2096.6 | 2086.8 | 2107.9 | 2162.1 | 2118.4 | 2152.3 | 2125.2 | 2064.9 |
| 17.5° | 2324.9 | 2338.5 | 2264.6 | 2234.5 | 2273.7 | 2266.9 | 2253.3 | 2260.1 | 2175.7 | 2332.5 | 2258.6 |
| 20° | 2396.5 | 2450.0 | 2352.8 | 2234.5 | 2364.1 | 2381.4 | 2378.4 | 2349.0 | 2204.3 | 2430.4 | 2358.8 |
| 22.5° | 2604.5 | 2532.2 | 2455.3 | 2379.9 | 2446.3 | 2456.1 | 2439.5 | 2369.4 | 2321.2 | 2407.1 | 2463.6 |
| 25° | 2698.7 | 2681.4 | 2583.4 | 2574.4 | 2501.3 | 2466.6 | 2495.2 | 2474.9 | 2427.4 | 2580.4 | 2517.9 |
| 27.5° | 2914.3 | 2893.9 | 2668.6 | 2761.3 | 2655.0 | 2646.0 | 2494.5 | 2562.3 | 2609.8 | 2598.5 | 2691.9 |
| 30° | 3158.4 | 3181.8 | 2852.5 | 2945.2 | 2822.3 | 2805.7 | 2653.5 | 2739.4 | 2771.8 | 2782.4 | 2899.2 |
| 32.5° | 3429.7 | 3493.8 | 3166.7 | 3090.6 | 3025.0 | 3036.3 | 2907.5 | 2750.7 | 2876.6 | 3123.0 | 3173.5 |
| 35° | 3723.7 | 3750.0 | 3407.1 | 3292.6 | 3121.5 | 3109.4 | 3111.7 | 3131.3 | 3258.7 | 3539.8 | 3579.0 |
| 37.5° | 4267.0 | 4144.9 | 3844.2 | 3554.1 | 3496.8 | 3384.5 | 3460.6 | 3520.9 | 3648.3 | 4079.4 | 4243.7 |
| 40° | 4601.6 | 4511.2 | 4053.0 | 3884.9 | 3726.7 | 3737.2 | 3879.7 | 3878.9 | 4179.6 | 4624.2 | 4875.2 |
| 42.5° | 4911.4 | 4812.6 | 4380.8 | 4212.0 | 4062.0 | 4099.0 | 4139.7 | 4211.2 | 4787.8 | 5504.5 | 5619.0 |
| 45° | 5160.8 | 4944.5 | 4634.0 | 4596.3 | 4472.8 | 4423.8 | 4596.3 | 4710.9 | 5515.0 | 6216.6 | 6283.0 |
| 47.5° | 5330.4 | 5152.5 | 4848.8 | 4815.7 | 4724.5 | 4844.3 | 5315.3 | 5389.2 | 6078.7 | 6931.8 | 6926.5 |
| 50° | 5588.1 | 5344.7 | 5070.4 | 5053.0 | 5310.0 | 5374.1 | 5948.3 | 5940.8 | 6627.4 | 7525.7 | 7401.3 |
| 52.5° | 5885.0 | 5578.3 | 5280.6 | 5466.8 | 5858.7 | 5890.3 | 6388.5 | 6591.2 | 7226.5 | 8098.4 | 7773.6 |
| 55° | 6226.4 | 5883.5 | 5595.7 | 5844.3 | 6427.7 | 6334.2 | 6838.4 | 7333.5 | 7976.3 | 8702.1 | 8042.7 |
| 57.5° | 6649.2 | 6233.2 | 6000.3 | 6378.7 | 6946.9 | 7029.8 | 7482.7 | 8106.0 | 8580.0 | 9077.4 | 8238.6 |
| 60° | 7095.4 | 6607.0 | 6393.7 | 6754.0 | 7674.1 | 7769.1 | 8212.2 | 8748.1 | 9256.8 | 9430.8 | 8201.7 |
| 62.5° | 7521.2 | 6992.9 | 6799.9 | 7244.6 | 8480.5 | 8715.7 | 9042.7 | 9384.1 | 9819.7 | 9516.8 | 7754.8 |
| 65° | 7995.2 | 7466.1 | 7344.8 | 8011.8 | 9574.0 | 9807.7 | 10235.0 | 10132.5 | 10012.6 | 9212.3 | 7015.5 |
| 67.5° | 8497.1 | 7959.8 | 7982.4 | 8901.8 | 10863.5 | 10903.4 | 11559.8 | 10878.5 | 9785.8 | 8405.9 | 5774.3 |
| 70° | 8766.9 | 8216.8 | 8449.6 | 9850.6 | 12175.5 | 12118.3 | 12252.4 | 11079.0 | 8861.1 | 6644.7 | 3979.9 |
| 72.5° | 8439.8 | 7949.2 | 8375.8 | 10250.0 | 12843.2 | 12781.4 | 11863.5 | 9889.0 | 6928.1 | 4132.1 | 2063.4 |
| 75° | 7145.9 | 6672.6 | 7325.2 | 9136.9 | 11562.1 | 11619.4 | 10096.3 | 7353.9 | 3966.3 | 1661.7 | 856.9 |
| 77.5° | 4855.6 | 4611.4 | 5170.6 | 6810.5 | 8588.3 | 8786.5 | 7491.0 | 4300.2 | 1665.5 | 688.1 | 518.5 |
| 80° | 2566.1 | 2450.0 | 2863.0 | 3923.4 | 5438.1 | 5585.9 | 4404.9 | 2141.8 | 853.1 | 445.4 | 370.0 |
| 82.5° | 1394.2 | 1345.2 | 1566.8 | 2017.4 | 3089.9 | 3218.7 | 2284.2 | 1422.8 | 575.0 | 278.8 | 226.1 |
| 85° | 936.8 | 917.9 | 1064.9 | 1083.7 | 1461.3 | 1503.5 | 1196.8 | 1095.8 | 345.2 | 136.4 | 149.2 |
| 87.5° | 468.8 | 449.9 | 560.7 | 495.1 | 557.7 | 558.4 | 548.6 | 699.4 | 87.4 | 45.2 | 27.1 |
| 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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CATALOG NUMBER: PMM-SA3D-730-U-SL4

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 | 1020.4 |
| 2.5° | 1231.4 | 1205.0 | 1113.9 | 1113.1 | 1126.7 | 1117.6 | 1124.4 | 1087.5 | 1071.7 | 1144.0 | 1140.2 |
| 5° | 1530.6 | 1451.5 | 1375.4 | 1349.0 | 1318.1 | 1251.0 | 1254.8 | 1255.5 | 1244.2 | 1287.2 | 1290.2 |
| 7.5° | 1706.2 | 1611.2 | 1541.2 | 1401.0 | 1291.0 | 1205.0 | 1216.3 | 1229.2 | 1216.3 | 1273.6 | 1294.7 |
| 10° | 1731.8 | 1656.5 | 1572.8 | 1416.8 | 1343.7 | 1266.1 | 1187.7 | 1118.4 | 1110.1 | 1083.7 | 1092.0 |
| 12.5° | 1884.1 | 1821.5 | 1646.7 | 1475.6 | 1390.4 | 1271.4 | 1128.2 | 1049.0 | 982.7 | 994.0 | 972.9 |
| 15° | 2009.2 | 1964.7 | 1755.2 | 1531.4 | 1327.9 | 1180.2 | 1027.9 | 919.4 | 859.9 | 853.1 | 832.0 |
| 17.5° | 2178.7 | 2115.4 | 1765.0 | 1492.9 | 1247.2 | 1070.1 | 898.3 | 775.5 | 749.9 | 739.3 | 728.8 |
| 20° | 2260.1 | 2146.3 | 1729.6 | 1372.3 | 1153.0 | 939.0 | 770.2 | 664.7 | 657.2 | 676.0 | 672.2 |
| 22.5° | 2331.0 | 2171.9 | 1697.9 | 1299.2 | 1006.1 | 806.4 | 682.8 | 613.4 | 605.2 | 629.3 | 633.8 |
| 25° | 2372.4 | 2245.0 | 1663.2 | 1224.6 | 914.9 | 707.7 | 617.2 | 578.0 | 579.5 | 611.2 | 607.4 |
| 27.5° | 2559.3 | 2270.7 | 1575.8 | 1136.5 | 810.1 | 634.6 | 585.6 | 565.2 | 556.9 | 600.6 | 604.4 |
| 30° | 2676.9 | 2438.0 | 1556.2 | 1043.0 | 732.5 | 581.0 | 556.9 | 548.6 | 547.1 | 599.9 | 603.7 |
| 32.5° | 2895.4 | 2493.7 | 1565.3 | 941.3 | 662.4 | 564.5 | 535.8 | 535.1 | 550.1 | 600.6 | 606.7 |
| 35° | 3198.4 | 2728.9 | 1521.6 | 883.2 | 624.0 | 538.8 | 519.2 | 525.3 | 550.9 | 605.9 | 614.2 |
| 37.5° | 3789.2 | 2950.4 | 1535.1 | 829.0 | 611.2 | 530.6 | 514.7 | 518.5 | 559.9 | 619.5 | 642.1 |
| 40° | 4257.2 | 3352.1 | 1514.0 | 801.9 | 593.9 | 529.0 | 504.9 | 520.0 | 559.2 | 627.0 | 647.4 |
| 42.5° | 4935.5 | 3672.4 | 1516.3 | 774.7 | 593.1 | 523.0 | 503.4 | 521.5 | 557.7 | 620.2 | 648.1 |
| 45° | 5517.3 | 3959.5 | 1548.7 | 758.9 | 585.6 | 532.8 | 501.2 | 523.8 | 547.9 | 596.1 | 627.0 |
| 47.5° | 5994.3 | 4279.8 | 1581.9 | 743.8 | 582.6 | 541.9 | 498.9 | 507.9 | 531.3 | 569.0 | 596.9 |
| 50° | 6383.2 | 4505.2 | 1624.1 | 740.8 | 582.6 | 537.3 | 492.9 | 492.1 | 511.7 | 541.9 | 568.2 |
| 52.5° | 6686.1 | 4664.2 | 1652.7 | 744.6 | 582.6 | 520.0 | 485.3 | 479.3 | 491.4 | 513.2 | 539.6 |
| 55° | 6905.4 | 4713.2 | 1629.3 | 754.4 | 581.8 | 504.2 | 471.8 | 466.5 | 472.5 | 487.6 | 512.5 |
| 57.5° | 6993.6 | 4584.3 | 1489.9 | 737.0 | 581.8 | 492.9 | 455.2 | 449.2 | 455.2 | 466.5 | 491.4 |
| 60° | 6772.8 | 4169.8 | 1288.7 | 692.6 | 570.5 | 477.8 | 436.3 | 432.6 | 441.6 | 451.4 | 475.5 |
| 62.5° | 6218.9 | 3618.9 | 1073.9 | 639.8 | 547.1 | 465.0 | 418.3 | 419.0 | 433.3 | 446.9 | 471.0 |
| 65° | 5358.3 | 2952.7 | 895.3 | 586.3 | 517.7 | 444.6 | 399.4 | 404.7 | 425.0 | 443.1 | 467.2 |
| 67.5° | 4216.5 | 2187.8 | 753.6 | 534.3 | 476.3 | 411.5 | 378.3 | 379.8 | 394.1 | 411.5 | 434.8 |
| 70° | 2818.6 | 1391.9 | 619.5 | 473.3 | 422.0 | 368.5 | 345.9 | 340.6 | 336.9 | 351.9 | 372.3 |
| 72.5° | 1429.6 | 822.2 | 508.7 | 404.7 | 363.2 | 321.8 | 304.5 | 290.9 | 280.3 | 289.4 | 305.2 |
| 75° | 749.1 | 575.0 | 410.7 | 336.1 | 299.9 | 273.6 | 260.8 | 242.7 | 235.1 | 240.4 | 251.7 |
| 77.5° | 529.8 | 449.9 | 332.3 | 266.0 | 244.2 | 217.0 | 219.3 | 200.5 | 194.4 | 197.4 | 209.5 |
| 80° | 407.0 | 356.5 | 255.5 | 201.2 | 188.4 | 162.0 | 169.6 | 158.3 | 150.7 | 149.2 | 158.3 |
| 82.5° | 277.3 | 268.3 | 181.6 | 140.9 | 131.9 | 113.0 | 123.6 | 119.1 | 109.3 | 103.2 | 107.8 |
| 85° | 186.9 | 177.9 | 110.8 | 81.4 | 77.6 | 58.8 | 75.4 | 72.3 | 64.1 | 55.0 | 55.8 |
| 87.5° | 32.4 | 59.5 | 31.7 | 20.3 | 18.8 | 6.8 | 17.3 | 16.6 | 15.1 | 7.5 | 6.0 |
| 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)