

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: P367288

Luminaire Tested: **PMM-SA2B-730-U-SL3**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367288
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-18)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA2B-730-U-SL3
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III SPILL LIGHT ELIMINATOR OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8901 lumens
Efficiency: N/A
Efficacy: 104.7 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G2

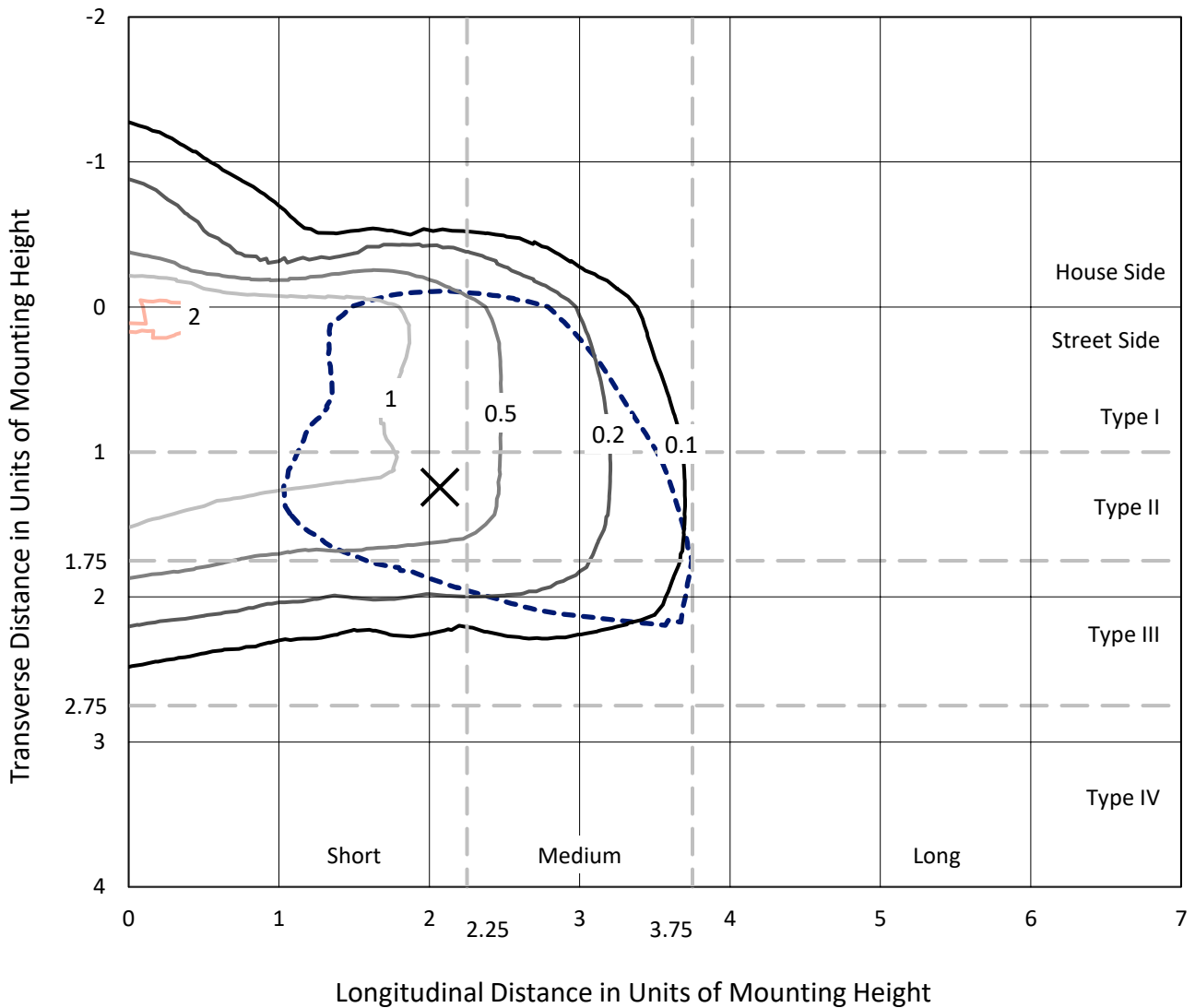
Input Watts (W): 85
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

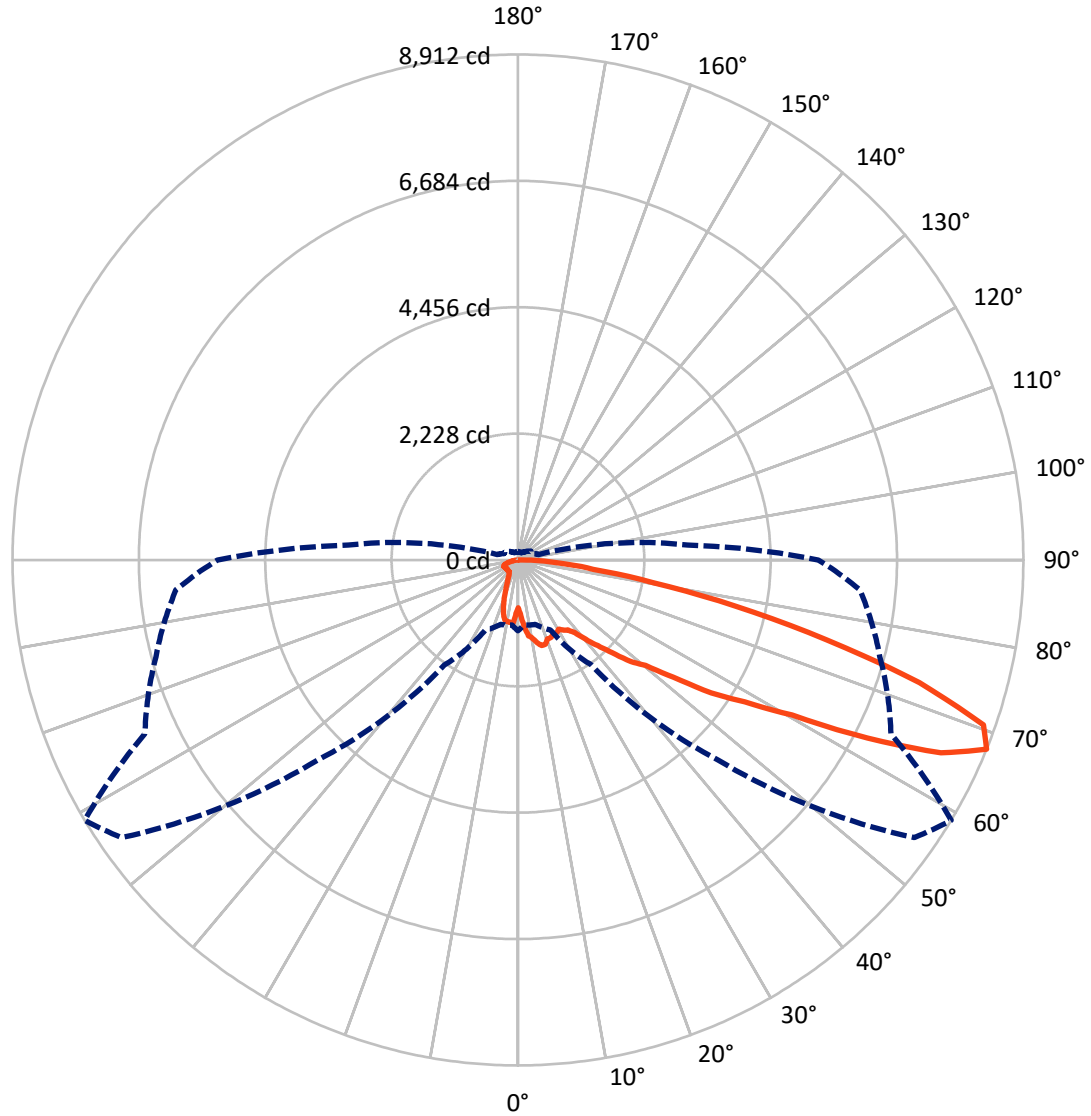
✕ Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 59-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1339.8 | 0.0 | 1339.8 |
| | % Fixture | 15.1 | 0.0 | 15.1 |
| Street Side | Lumens | 7561.2 | 0.0 | 7561.2 |
| | % Fixture | 84.9 | 0.0 | 84.9 |
| Total | Lumens | 8901.0 | 0.0 | 8901.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 110.0 | 1.2 |
| 10°-20° | 325.5 | 3.7 |
| 20°-30° | 464.9 | 5.2 |
| 30°-40° | 685.0 | 7.7 |
| 40°-50° | 1157.4 | 13.0 |
| 50°-60° | 2014.1 | 22.6 |
| 60°-70° | 2566.5 | 28.8 |
| 70°-80° | 1359.0 | 15.3 |
| 80°-90° | 218.6 | 2.5 |
| 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° | 8901.0 | 100.0 |
| 0°-180° | 8901.0 | 100.0 |

Coefficient of Utilization



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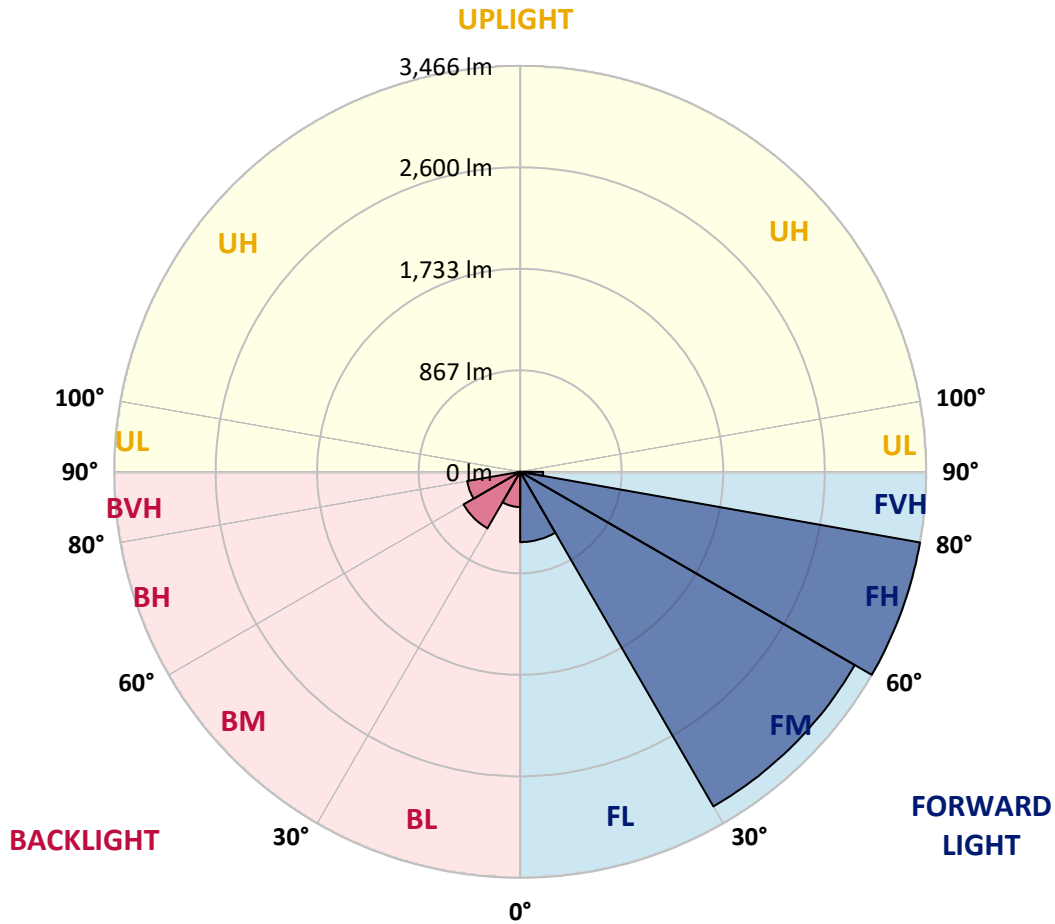
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 599.9 | 6.7 | | | |
| FM (30°-60°) | 3298.6 | 37.1 | | | |
| FH (60°-80°) | 3466.3 | 38.9 | | | G2/5000 |
| FVH (80°-90°) | 196.4 | 2.2 | | | G2/225 |
| BL (0°-30°) | 300.5 | 3.4 | B1/500 | | |
| BM (30°-60°) | 557.9 | 6.3 | B1/1000 | | |
| BH (60°-80°) | 459.2 | 5.2 | B1/500 | | G1/500 |
| BVH (80°-90°) | 22.3 | 0.3 | | | G1/100 |
| 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° | 59° | 65° | 75° | 85° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 |
| 2.5° | 1051.6 | 1002.6 | 950.5 | 965.2 | 995.0 | 1008.6 | 993.9 | 979.6 | 961.1 | 939.2 | 1013.9 |
| 5° | 1275.3 | 1202.5 | 1191.9 | 1191.5 | 1181.0 | 1138.7 | 1193.1 | 1189.3 | 1211.2 | 1233.8 | 1291.9 |
| 7.5° | 1339.0 | 1311.9 | 1282.5 | 1296.4 | 1243.2 | 1241.0 | 1325.5 | 1349.6 | 1391.8 | 1377.9 | 1456.0 |
| 10° | 1306.2 | 1275.7 | 1291.1 | 1285.5 | 1290.4 | 1346.2 | 1397.9 | 1399.4 | 1444.6 | 1489.2 | 1439.0 |
| 12.5° | 1248.5 | 1250.8 | 1312.3 | 1310.0 | 1389.2 | 1492.9 | 1508.4 | 1496.3 | 1570.2 | 1540.1 | 1583.1 |
| 15° | 1289.6 | 1317.2 | 1301.7 | 1314.9 | 1346.2 | 1478.2 | 1521.2 | 1565.0 | 1635.1 | 1662.3 | 1619.3 |
| 17.5° | 1355.3 | 1370.0 | 1300.6 | 1293.4 | 1357.9 | 1420.5 | 1527.2 | 1564.6 | 1575.5 | 1769.0 | 1708.3 |
| 20° | 1327.3 | 1357.1 | 1289.2 | 1202.1 | 1309.2 | 1392.2 | 1497.5 | 1486.1 | 1539.3 | 1777.3 | 1726.8 |
| 22.5° | 1406.5 | 1357.1 | 1270.8 | 1208.9 | 1246.6 | 1322.8 | 1412.2 | 1486.5 | 1549.5 | 1728.7 | 1753.6 |
| 25° | 1421.6 | 1398.2 | 1317.5 | 1256.0 | 1243.2 | 1270.4 | 1397.9 | 1446.5 | 1552.9 | 1795.1 | 1739.2 |
| 27.5° | 1513.7 | 1478.6 | 1314.1 | 1316.0 | 1252.3 | 1204.4 | 1352.6 | 1454.8 | 1591.4 | 1753.9 | 1774.3 |
| 30° | 1628.0 | 1601.2 | 1394.9 | 1402.4 | 1314.1 | 1225.9 | 1383.5 | 1414.5 | 1613.6 | 1818.1 | 1818.4 |
| 32.5° | 1713.6 | 1760.7 | 1553.7 | 1451.1 | 1419.7 | 1353.7 | 1336.0 | 1475.2 | 1587.6 | 1934.2 | 1893.9 |
| 35° | 1867.9 | 1904.4 | 1675.9 | 1593.6 | 1487.6 | 1413.3 | 1465.0 | 1515.2 | 1695.9 | 2087.0 | 2005.9 |
| 37.5° | 2153.4 | 2111.1 | 1902.9 | 1773.6 | 1734.0 | 1626.8 | 1655.5 | 1620.4 | 1813.5 | 2258.6 | 2225.4 |
| 40° | 2318.6 | 2282.0 | 2062.9 | 1991.2 | 1834.3 | 1847.9 | 1812.0 | 1837.7 | 1970.8 | 2441.2 | 2430.6 |
| 42.5° | 2481.5 | 2432.5 | 2247.3 | 2197.5 | 2041.0 | 1974.6 | 1981.0 | 2064.0 | 2213.4 | 2736.1 | 2701.1 |
| 45° | 2642.6 | 2517.0 | 2435.9 | 2449.1 | 2373.7 | 2237.5 | 2246.9 | 2325.0 | 2478.2 | 3073.4 | 2992.6 |
| 47.5° | 2765.9 | 2662.2 | 2598.9 | 2582.6 | 2545.3 | 2727.5 | 2646.0 | 2677.7 | 2745.2 | 3373.6 | 3343.1 |
| 50° | 2999.4 | 2878.4 | 2795.7 | 2772.4 | 2899.1 | 3152.6 | 2986.6 | 2918.3 | 3062.0 | 3761.7 | 3745.9 |
| 52.5° | 3373.2 | 3222.3 | 3084.7 | 3083.2 | 3266.5 | 3430.9 | 3547.9 | 3430.2 | 3483.0 | 4159.3 | 4204.6 |
| 55° | 3699.5 | 3524.9 | 3401.1 | 3469.4 | 3730.4 | 3831.1 | 4228.3 | 4136.3 | 4091.8 | 4560.6 | 4690.0 |
| 57.5° | 3821.3 | 3617.3 | 3536.6 | 3637.3 | 4022.0 | 4539.5 | 4959.3 | 4717.2 | 4673.8 | 5014.8 | 5286.0 |
| 60° | 3553.9 | 3338.1 | 3343.1 | 3532.8 | 4199.3 | 5059.7 | 5758.6 | 5553.0 | 5298.8 | 5580.2 | 5845.0 |
| 62.5° | 2792.0 | 2597.0 | 2724.1 | 3012.6 | 4050.7 | 5565.1 | 6829.8 | 6916.6 | 6012.8 | 6049.0 | 6155.0 |
| 65° | 1897.7 | 1762.6 | 1877.3 | 2159.8 | 3285.3 | 5840.8 | 7850.1 | 8197.9 | 6663.1 | 6356.1 | 6288.9 |
| 67.5° | 1248.9 | 1153.5 | 1175.7 | 1363.5 | 2261.6 | 4979.3 | 8532.5 | 8911.5 | 7257.5 | 6608.0 | 6052.8 |
| 70° | 967.1 | 890.2 | 880.4 | 978.8 | 1341.3 | 3459.2 | 8128.1 | 8704.5 | 7619.7 | 6371.9 | 5275.8 |
| 72.5° | 758.9 | 700.4 | 705.7 | 800.4 | 1038.8 | 1919.2 | 6289.7 | 7402.0 | 7074.2 | 5495.3 | 4053.3 |
| 75° | 591.8 | 543.9 | 570.7 | 678.9 | 960.7 | 1192.7 | 4339.6 | 5617.9 | 5469.3 | 4069.1 | 2311.8 |
| 77.5° | 429.6 | 398.7 | 436.8 | 578.2 | 903.0 | 1023.3 | 2701.4 | 3919.4 | 3503.7 | 2089.3 | 793.2 |
| 80° | 281.8 | 264.4 | 295.7 | 471.5 | 818.9 | 984.8 | 1669.5 | 2401.6 | 1731.3 | 586.9 | 300.2 |
| 82.5° | 166.0 | 158.4 | 184.4 | 319.1 | 658.2 | 923.0 | 1113.5 | 1334.5 | 708.4 | 248.2 | 159.6 |
| 85° | 87.1 | 81.5 | 109.4 | 183.3 | 453.8 | 842.6 | 876.6 | 798.9 | 342.1 | 107.9 | 76.2 |
| 87.5° | 29.0 | 28.3 | 46.4 | 70.9 | 171.6 | 447.3 | 467.7 | 379.5 | 141.1 | 31.3 | 16.6 |
| 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° | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 | 842.3 |
| 2.5° | 1024.1 | 1009.0 | 922.2 | 934.3 | 945.6 | 940.0 | 936.6 | 897.3 | 893.6 | 949.4 | 944.9 |
| 5° | 1290.4 | 1227.8 | 1153.8 | 1150.4 | 1101.8 | 1052.0 | 1061.8 | 1046.0 | 1050.5 | 1073.5 | 1075.8 |
| 7.5° | 1431.1 | 1353.0 | 1282.5 | 1167.8 | 1070.5 | 991.6 | 1004.1 | 1000.3 | 990.1 | 1042.2 | 1056.1 |
| 10° | 1428.4 | 1359.0 | 1279.4 | 1140.6 | 1075.0 | 1010.9 | 933.9 | 861.1 | 839.6 | 814.0 | 816.2 |
| 12.5° | 1522.7 | 1461.2 | 1287.7 | 1146.3 | 1057.3 | 946.8 | 802.7 | 723.1 | 646.9 | 645.4 | 626.1 |
| 15° | 1552.1 | 1506.9 | 1305.5 | 1113.8 | 933.2 | 774.8 | 625.8 | 539.4 | 484.3 | 473.4 | 457.2 |
| 17.5° | 1626.5 | 1555.5 | 1251.5 | 1009.0 | 789.1 | 605.8 | 470.4 | 410.0 | 405.5 | 413.0 | 404.7 |
| 20° | 1631.4 | 1516.3 | 1154.2 | 854.0 | 634.1 | 459.0 | 383.6 | 353.4 | 369.6 | 388.1 | 387.4 |
| 22.5° | 1627.2 | 1466.9 | 1070.1 | 721.9 | 476.4 | 368.9 | 336.1 | 329.3 | 344.4 | 371.9 | 375.3 |
| 25° | 1585.0 | 1450.7 | 964.9 | 592.9 | 386.6 | 316.1 | 307.0 | 311.2 | 330.0 | 362.5 | 362.5 |
| 27.5° | 1629.1 | 1384.7 | 832.8 | 482.4 | 325.1 | 281.4 | 287.8 | 298.4 | 312.3 | 349.3 | 356.1 |
| 30° | 1614.8 | 1406.5 | 726.5 | 388.5 | 286.7 | 257.2 | 271.6 | 282.1 | 298.0 | 336.5 | 339.8 |
| 32.5° | 1653.2 | 1348.1 | 637.1 | 326.6 | 261.4 | 247.8 | 251.2 | 265.5 | 286.3 | 316.5 | 322.5 |
| 35° | 1712.1 | 1369.6 | 534.5 | 293.8 | 248.9 | 236.9 | 243.3 | 254.6 | 275.4 | 304.8 | 309.7 |
| 37.5° | 1899.9 | 1368.5 | 463.6 | 275.7 | 246.7 | 234.6 | 237.6 | 245.6 | 269.7 | 296.5 | 307.8 |
| 40° | 2020.6 | 1446.9 | 399.1 | 271.6 | 244.0 | 233.5 | 230.8 | 239.5 | 258.8 | 290.4 | 298.4 |
| 42.5° | 2247.3 | 1494.8 | 371.2 | 270.1 | 243.7 | 227.1 | 224.4 | 234.6 | 253.5 | 282.9 | 295.0 |
| 45° | 2486.8 | 1563.1 | 348.9 | 269.3 | 242.5 | 225.9 | 218.0 | 230.8 | 246.7 | 275.0 | 288.9 |
| 47.5° | 2768.6 | 1707.5 | 336.5 | 266.7 | 240.3 | 227.4 | 215.8 | 222.2 | 239.9 | 268.2 | 282.1 |
| 50° | 3137.5 | 1898.8 | 339.1 | 262.9 | 243.7 | 227.8 | 212.4 | 215.4 | 231.6 | 259.1 | 273.5 |
| 52.5° | 3586.0 | 2194.9 | 356.1 | 264.4 | 245.9 | 225.9 | 210.9 | 209.3 | 223.3 | 247.4 | 261.8 |
| 55° | 4126.5 | 2615.1 | 407.0 | 271.6 | 245.9 | 225.6 | 208.6 | 201.8 | 212.4 | 232.0 | 245.9 |
| 57.5° | 4778.6 | 3101.6 | 506.6 | 275.0 | 244.0 | 223.3 | 203.7 | 191.6 | 198.0 | 214.2 | 227.4 |
| 60° | 5338.8 | 3494.3 | 609.2 | 277.2 | 247.8 | 218.0 | 193.9 | 178.8 | 182.9 | 195.4 | 207.1 |
| 62.5° | 5624.3 | 3604.4 | 640.1 | 275.4 | 258.0 | 214.6 | 182.2 | 165.2 | 165.6 | 176.1 | 186.7 |
| 65° | 5677.9 | 3457.7 | 516.0 | 273.5 | 271.2 | 214.2 | 173.9 | 153.5 | 150.9 | 158.4 | 167.5 |
| 67.5° | 5296.1 | 3001.3 | 372.3 | 269.3 | 272.7 | 212.0 | 168.2 | 144.1 | 137.3 | 142.6 | 150.1 |
| 70° | 4496.9 | 2417.0 | 312.7 | 261.0 | 254.6 | 200.7 | 158.4 | 134.3 | 125.2 | 129.0 | 134.7 |
| 72.5° | 3352.5 | 1788.3 | 272.7 | 243.3 | 221.8 | 171.6 | 143.3 | 123.3 | 113.9 | 116.6 | 120.7 |
| 75° | 1862.6 | 953.9 | 228.2 | 211.6 | 181.1 | 138.8 | 122.2 | 109.4 | 101.1 | 102.2 | 106.7 |
| 77.5° | 618.6 | 351.9 | 167.5 | 167.9 | 136.9 | 107.1 | 100.7 | 93.5 | 87.1 | 87.5 | 91.3 |
| 80° | 280.3 | 194.6 | 119.9 | 120.7 | 95.4 | 77.7 | 77.3 | 75.1 | 70.9 | 69.8 | 72.4 |
| 82.5° | 162.6 | 118.1 | 82.2 | 78.5 | 61.5 | 50.5 | 56.2 | 55.1 | 53.9 | 49.8 | 50.5 |
| 85° | 80.0 | 63.4 | 43.0 | 40.7 | 33.9 | 25.3 | 30.2 | 31.3 | 30.2 | 25.6 | 25.3 |
| 87.5° | 19.6 | 20.7 | 10.6 | 9.8 | 5.7 | 2.6 | 4.5 | 4.5 | 5.7 | 3.8 | 1.9 |
| 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)