

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: P368600

Luminaire Tested: **PMM-SA4D-727-U-T4W**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368600
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-14)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4D-727-U-T4W
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE IV WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22308 lumens
Efficiency: N/A
Efficacy: 86.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B3 - U0 - G4

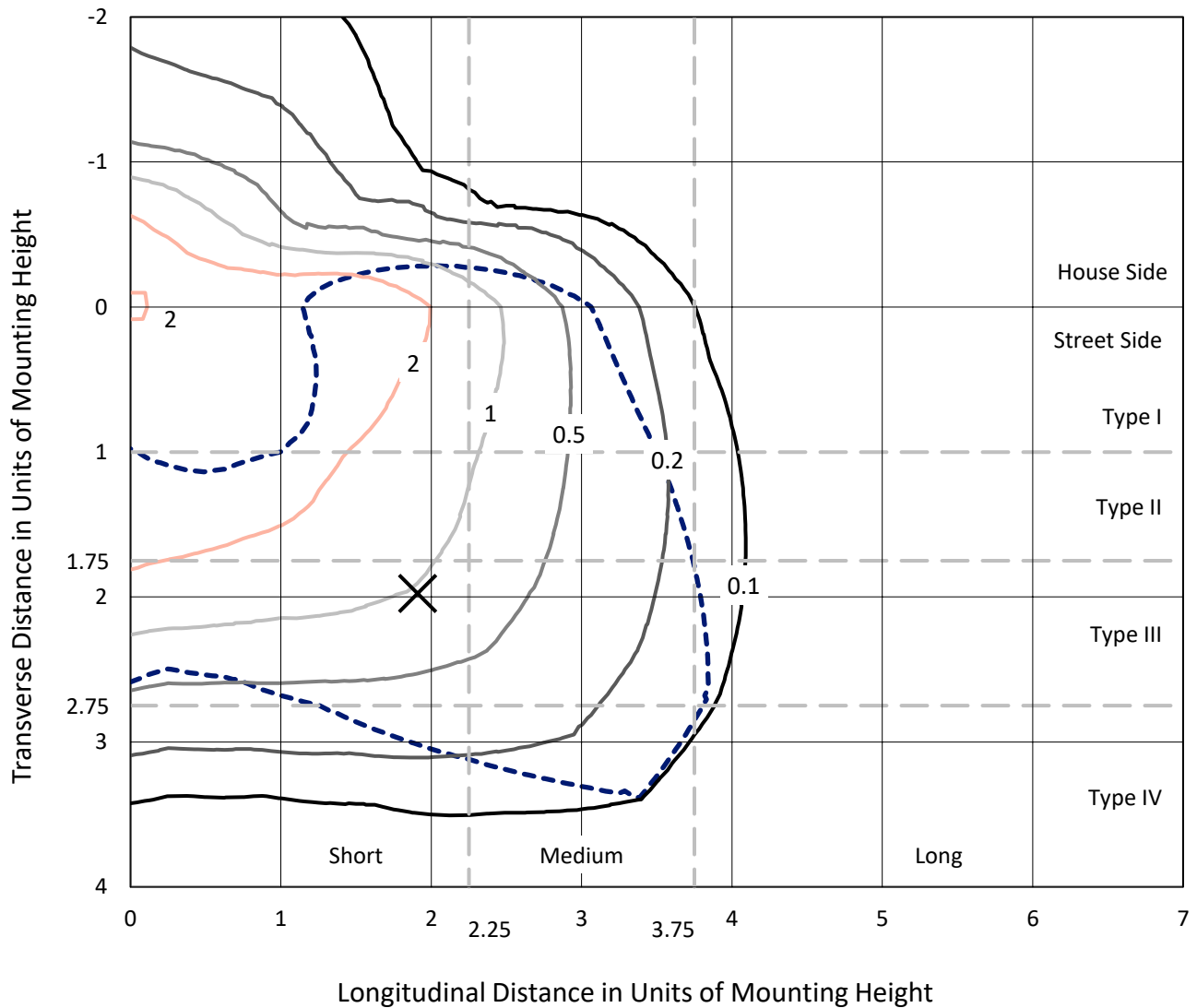
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

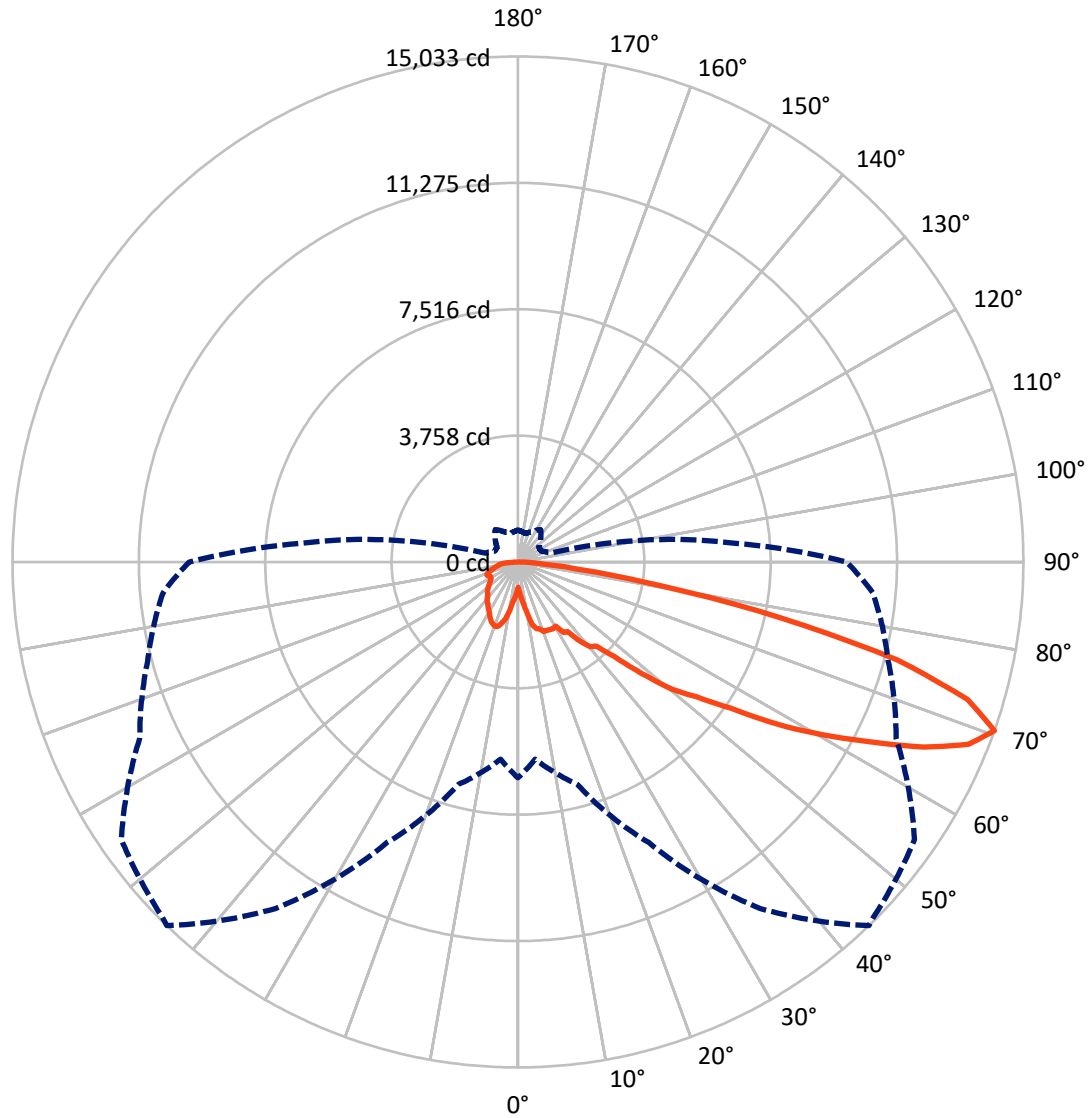
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 44-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 4922.0 | 0.0 | 4922.0 |
| | % Fixture | 22.1 | 0.0 | 22.1 |
| Street Side | Lumens | 17386.0 | 0.0 | 17386.0 |
| | % Fixture | 77.9 | 0.0 | 77.9 |
| Total | Lumens | 22308.0 | 0.0 | 22308.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 118.9 | 0.5 |
| 10°-20° | 547.5 | 2.5 |
| 20°-30° | 1023.1 | 4.6 |
| 30°-40° | 1642.2 | 7.4 |
| 40°-50° | 2771.9 | 12.4 |
| 50°-60° | 4939.5 | 22.1 |
| 60°-70° | 6756.6 | 30.3 |
| 70°-80° | 3973.3 | 17.8 |
| 80°-90° | 535.0 | 2.4 |
| 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° | 22308.0 | 100.0 |
| 0°-180° | 22308.0 | 100.0 |

Coefficient of Utilization

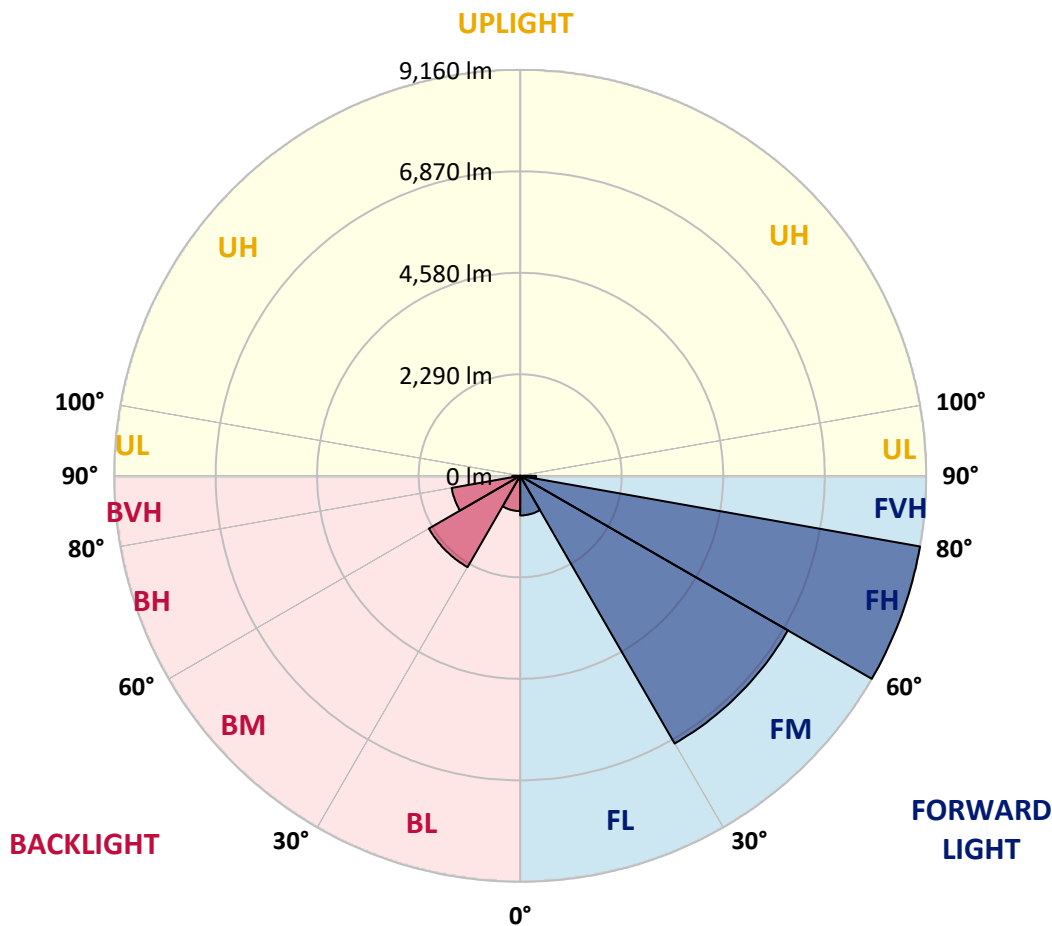


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 894.0 | 4.0 | | | |
| FM (30°-60°) | 6975.1 | 31.3 | | | |
| FH (60°-80°) | 9160.4 | 41.1 | | | G4/12000 |
| FVH (80°-90°) | 356.6 | 1.6 | | | G3/500 |
| BL (0°-30°) | 795.5 | 3.6 | B2/1000 | | |
| BM (30°-60°) | 2378.6 | 10.7 | B2/2500 | | |
| BH (60°-80°) | 1569.5 | 7.0 | B3/2500 | | G3/2500 |
| BVH (80°-90°) | 178.4 | 0.8 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 44° | 45° | 55° | 65° | 75° | 85° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 |
| 2.5° | 920.2 | 901.9 | 858.0 | 872.6 | 890.9 | 898.2 | 896.4 | 894.6 | 866.2 | 856.2 | 906.5 |
| 5° | 1250.4 | 1210.1 | 1178.1 | 1165.3 | 1123.2 | 1090.3 | 1070.2 | 1123.2 | 1115.0 | 1128.7 | 1163.5 |
| 7.5° | 1561.4 | 1535.8 | 1463.5 | 1437.9 | 1351.9 | 1295.2 | 1288.8 | 1330.9 | 1341.9 | 1319.9 | 1379.4 |
| 10° | 1761.7 | 1717.8 | 1703.2 | 1641.9 | 1582.4 | 1573.3 | 1567.8 | 1548.6 | 1522.0 | 1520.2 | 1467.2 |
| 12.5° | 1917.2 | 1940.1 | 1951.9 | 1881.5 | 1883.3 | 1916.3 | 1898.9 | 1821.1 | 1776.3 | 1697.7 | 1704.1 |
| 15° | 2196.2 | 2229.1 | 2134.9 | 2090.1 | 2004.1 | 2053.5 | 2047.1 | 1982.1 | 1975.7 | 1924.5 | 1865.1 |
| 17.5° | 2439.5 | 2454.1 | 2296.8 | 2194.3 | 2165.1 | 2093.7 | 2112.9 | 2114.8 | 2030.6 | 2122.1 | 2069.0 |
| 20° | 2459.6 | 2511.7 | 2330.6 | 2126.7 | 2214.5 | 2205.3 | 2208.1 | 2189.8 | 2079.1 | 2230.0 | 2209.9 |
| 22.5° | 2558.4 | 2478.8 | 2316.0 | 2166.9 | 2189.8 | 2203.5 | 2216.3 | 2194.3 | 2187.9 | 2272.1 | 2333.4 |
| 25° | 2540.1 | 2514.5 | 2349.8 | 2223.6 | 2226.4 | 2229.1 | 2235.5 | 2301.4 | 2294.0 | 2408.4 | 2440.4 |
| 27.5° | 2711.1 | 2671.8 | 2359.9 | 2328.8 | 2257.5 | 2241.9 | 2198.0 | 2335.2 | 2442.2 | 2439.5 | 2616.0 |
| 30° | 3036.8 | 2996.5 | 2594.1 | 2503.5 | 2374.5 | 2215.4 | 2299.5 | 2482.5 | 2566.6 | 2595.0 | 2819.1 |
| 32.5° | 3545.3 | 3611.2 | 3055.1 | 2690.1 | 2530.0 | 2495.3 | 2486.1 | 2467.8 | 2676.4 | 2816.3 | 3020.3 |
| 35° | 4275.3 | 4223.1 | 3598.4 | 3089.8 | 2693.8 | 2544.7 | 2564.8 | 2676.4 | 2924.3 | 3014.8 | 3203.2 |
| 37.5° | 5111.3 | 5003.4 | 4294.5 | 3542.6 | 3165.7 | 2979.1 | 2912.4 | 3020.3 | 3075.2 | 3146.5 | 3531.6 |
| 40° | 5961.0 | 5697.6 | 4977.7 | 4138.1 | 3449.3 | 3308.4 | 3249.9 | 3117.3 | 3246.2 | 3390.8 | 3880.1 |
| 42.5° | 6781.5 | 6577.5 | 5721.4 | 4848.8 | 3926.8 | 3424.6 | 3392.6 | 3262.7 | 3662.4 | 3815.2 | 4383.2 |
| 45° | 7641.3 | 7168.4 | 6483.3 | 5651.0 | 4624.7 | 3994.5 | 3946.9 | 3713.6 | 4225.9 | 4544.2 | 5093.0 |
| 47.5° | 8219.4 | 7781.3 | 7181.2 | 6302.2 | 5209.2 | 4947.6 | 4857.0 | 4458.2 | 4922.9 | 5336.3 | 6189.7 |
| 50° | 8766.4 | 8315.5 | 7685.2 | 7014.8 | 6267.5 | 5966.5 | 5773.5 | 5109.5 | 5790.9 | 6464.1 | 7595.6 |
| 52.5° | 9549.4 | 9146.0 | 8270.6 | 7732.8 | 7404.4 | 6664.4 | 6520.8 | 6155.9 | 6806.2 | 7714.5 | 9132.3 |
| 55° | 10386.3 | 9836.6 | 9043.5 | 8745.4 | 8612.7 | 7665.1 | 7548.0 | 7315.7 | 8158.1 | 8994.2 | 10626.0 |
| 57.5° | 10755.8 | 10182.3 | 9745.1 | 9566.7 | 9555.8 | 9119.5 | 8985.0 | 8823.1 | 9540.2 | 10091.8 | 12031.8 |
| 60° | 11049.5 | 10433.9 | 10259.2 | 10358.9 | 10721.1 | 10433.9 | 10259.2 | 10116.5 | 10665.3 | 11176.6 | 13178.9 |
| 62.5° | 10995.5 | 10378.1 | 10467.7 | 10771.4 | 11696.1 | 11780.3 | 11645.8 | 11300.1 | 11780.3 | 12065.7 | 13836.5 |
| 65° | 10124.7 | 9553.9 | 10076.2 | 10797.0 | 12602.6 | 13274.9 | 13267.6 | 12363.0 | 12529.4 | 12529.4 | 13767.0 |
| 67.5° | 8599.0 | 8008.1 | 8863.4 | 10571.1 | 13229.2 | 14459.4 | 14461.3 | 13489.9 | 12598.0 | 12482.8 | 12691.3 |
| 70° | 6421.1 | 5886.0 | 6847.4 | 9206.4 | 12582.5 | 15032.9 | 14949.7 | 14399.1 | 12409.6 | 11402.5 | 10601.3 |
| 72.5° | 3835.3 | 3489.5 | 4374.0 | 6701.9 | 10733.0 | 13978.3 | 14199.7 | 13351.7 | 11360.5 | 9482.6 | 7578.2 |
| 75° | 1741.6 | 1591.6 | 2055.3 | 3849.9 | 7662.4 | 11659.6 | 11900.1 | 11268.1 | 9023.4 | 6819.9 | 4379.5 |
| 77.5° | 745.5 | 705.2 | 897.3 | 1707.7 | 4225.0 | 7973.4 | 8466.4 | 8052.9 | 6113.8 | 3963.4 | 1937.3 |
| 80° | 479.3 | 453.7 | 551.6 | 821.4 | 1962.0 | 4308.2 | 4732.6 | 4578.0 | 3114.5 | 1541.3 | 682.4 |
| 82.5° | 286.3 | 278.1 | 368.6 | 515.9 | 1070.2 | 1896.2 | 2136.7 | 2193.4 | 1293.4 | 691.5 | 390.6 |
| 85° | 156.4 | 158.2 | 202.1 | 312.8 | 642.1 | 738.2 | 790.3 | 859.8 | 609.2 | 400.6 | 189.3 |
| 87.5° | 52.1 | 60.4 | 81.4 | 127.1 | 228.7 | 208.5 | 209.5 | 243.3 | 257.0 | 166.5 | 60.4 |
| 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-SA4D-727-U-T4W

CANDELA DISTRIBUTION (continued):

| | 90° | 95° | 105° | 115° | 125° | 135° | 145° | 155° | 165° | 175° | 180° |
|-------|---------|---------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 | 758.3 |
| 2.5° | 914.7 | 898.2 | 856.2 | 858.9 | 874.4 | 878.1 | 882.7 | 856.2 | 850.7 | 901.0 | 905.5 |
| 5° | 1169.0 | 1115.0 | 1090.3 | 1082.1 | 1058.3 | 1050.1 | 1094.0 | 1114.1 | 1134.2 | 1173.5 | 1192.8 |
| 7.5° | 1373.0 | 1312.6 | 1267.8 | 1226.6 | 1191.8 | 1171.7 | 1245.8 | 1302.5 | 1337.3 | 1417.8 | 1454.4 |
| 10° | 1466.2 | 1414.1 | 1397.6 | 1364.7 | 1391.2 | 1451.6 | 1465.3 | 1467.2 | 1544.0 | 1542.2 | 1557.7 |
| 12.5° | 1651.9 | 1618.1 | 1564.1 | 1576.0 | 1645.5 | 1707.7 | 1690.3 | 1716.9 | 1744.3 | 1810.2 | 1780.0 |
| 15° | 1821.1 | 1812.0 | 1761.7 | 1769.9 | 1783.6 | 1861.4 | 1871.5 | 1898.0 | 1940.1 | 1992.2 | 1956.5 |
| 17.5° | 2029.7 | 2026.0 | 1903.5 | 1892.5 | 1924.5 | 2000.4 | 1976.6 | 1930.0 | 2069.0 | 2124.8 | 2110.2 |
| 20° | 2171.5 | 2144.0 | 1986.7 | 1940.1 | 2021.5 | 2031.5 | 2004.1 | 1930.0 | 2050.7 | 2172.4 | 2205.3 |
| 22.5° | 2289.5 | 2257.5 | 2095.6 | 2004.1 | 1987.6 | 1992.2 | 1992.2 | 1978.5 | 2037.9 | 2137.6 | 2136.7 |
| 25° | 2384.6 | 2414.8 | 2209.0 | 2121.2 | 2033.4 | 1923.6 | 1909.9 | 1921.8 | 1955.6 | 2147.7 | 2141.3 |
| 27.5° | 2623.3 | 2540.1 | 2247.4 | 2181.5 | 2001.3 | 1828.5 | 1866.0 | 1884.3 | 1895.2 | 2105.6 | 2140.4 |
| 30° | 2778.8 | 2804.4 | 2384.6 | 2217.2 | 1954.7 | 1722.4 | 1735.2 | 1788.2 | 1852.2 | 2101.0 | 2111.1 |
| 32.5° | 2988.3 | 2933.4 | 2598.6 | 2157.8 | 1830.3 | 1658.3 | 1634.6 | 1705.9 | 1801.0 | 2027.0 | 2054.4 |
| 35° | 3183.1 | 3248.1 | 2689.2 | 2146.8 | 1743.4 | 1562.3 | 1587.9 | 1612.6 | 1711.4 | 1944.6 | 1976.6 |
| 37.5° | 3640.5 | 3492.3 | 2943.5 | 2093.7 | 1671.1 | 1513.8 | 1486.4 | 1523.9 | 1608.0 | 1788.2 | 1862.3 |
| 40° | 3988.1 | 3997.2 | 2998.4 | 2027.0 | 1533.0 | 1444.3 | 1385.8 | 1423.3 | 1458.9 | 1602.5 | 1634.6 |
| 42.5° | 4640.2 | 4440.8 | 3132.8 | 1880.6 | 1446.1 | 1340.0 | 1307.1 | 1323.6 | 1329.0 | 1389.4 | 1442.5 |
| 45° | 5469.8 | 5002.4 | 3185.9 | 1683.9 | 1331.8 | 1297.0 | 1230.3 | 1222.0 | 1191.8 | 1200.1 | 1246.7 |
| 47.5° | 6617.8 | 5878.7 | 3147.4 | 1474.5 | 1230.3 | 1241.2 | 1145.2 | 1107.7 | 1065.6 | 1075.7 | 1119.6 |
| 50° | 8102.3 | 6998.3 | 3144.7 | 1297.0 | 1160.7 | 1168.1 | 1089.4 | 1021.7 | 979.6 | 1000.7 | 1039.1 |
| 52.5° | 9768.0 | 8121.5 | 3157.5 | 1175.4 | 1084.8 | 1081.2 | 1052.8 | 970.5 | 936.6 | 958.6 | 1002.5 |
| 55° | 11361.4 | 9087.4 | 3252.6 | 1098.5 | 1006.2 | 1012.6 | 1023.5 | 954.0 | 916.5 | 936.6 | 982.4 |
| 57.5° | 12748.0 | 9850.3 | 3217.0 | 1017.1 | 933.0 | 962.3 | 991.5 | 931.2 | 902.8 | 932.1 | 977.8 |
| 60° | 13717.6 | 10204.3 | 2935.2 | 939.4 | 879.0 | 919.3 | 976.0 | 928.4 | 924.8 | 987.9 | 1042.7 |
| 62.5° | 14071.6 | 10073.5 | 2386.4 | 878.1 | 847.0 | 913.8 | 1011.6 | 988.8 | 992.4 | 1070.2 | 1146.1 |
| 65° | 13554.8 | 9385.6 | 1780.0 | 838.8 | 822.3 | 940.3 | 1094.0 | 1024.5 | 974.1 | 1038.2 | 1107.7 |
| 67.5° | 12084.9 | 8162.7 | 1300.7 | 804.9 | 794.0 | 982.4 | 1169.9 | 1020.8 | 927.5 | 992.4 | 1049.1 |
| 70° | 9777.1 | 6443.1 | 1007.1 | 761.9 | 756.4 | 954.0 | 1177.2 | 993.4 | 877.2 | 919.3 | 951.3 |
| 72.5° | 6699.2 | 4411.6 | 834.2 | 720.8 | 691.5 | 845.2 | 1117.8 | 932.1 | 816.8 | 841.5 | 868.0 |
| 75° | 3743.8 | 2476.1 | 701.6 | 669.6 | 605.5 | 752.8 | 1048.2 | 895.5 | 772.0 | 779.3 | 815.9 |
| 77.5° | 1680.3 | 1071.1 | 595.5 | 601.9 | 527.8 | 665.9 | 957.7 | 836.9 | 703.4 | 686.9 | 723.5 |
| 80° | 635.7 | 522.3 | 483.0 | 508.6 | 443.6 | 577.2 | 863.5 | 783.9 | 631.1 | 610.1 | 631.1 |
| 82.5° | 368.6 | 316.5 | 358.6 | 391.5 | 352.2 | 530.5 | 824.1 | 735.4 | 556.1 | 503.1 | 521.4 |
| 85° | 171.0 | 163.7 | 215.0 | 254.3 | 246.1 | 413.4 | 705.2 | 553.4 | 396.1 | 334.8 | 370.4 |
| 87.5° | 44.8 | 50.3 | 75.9 | 89.6 | 91.5 | 141.8 | 271.7 | 205.8 | 154.6 | 117.1 | 112.5 |
| 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)