

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: P366777

Luminaire Tested: **PMM-SA1B-740-U-5WQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P366777
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-4)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1B-740-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5433 lumens
Efficiency: N/A
Efficacy: 123.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G1

Input Watts (W): 44
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

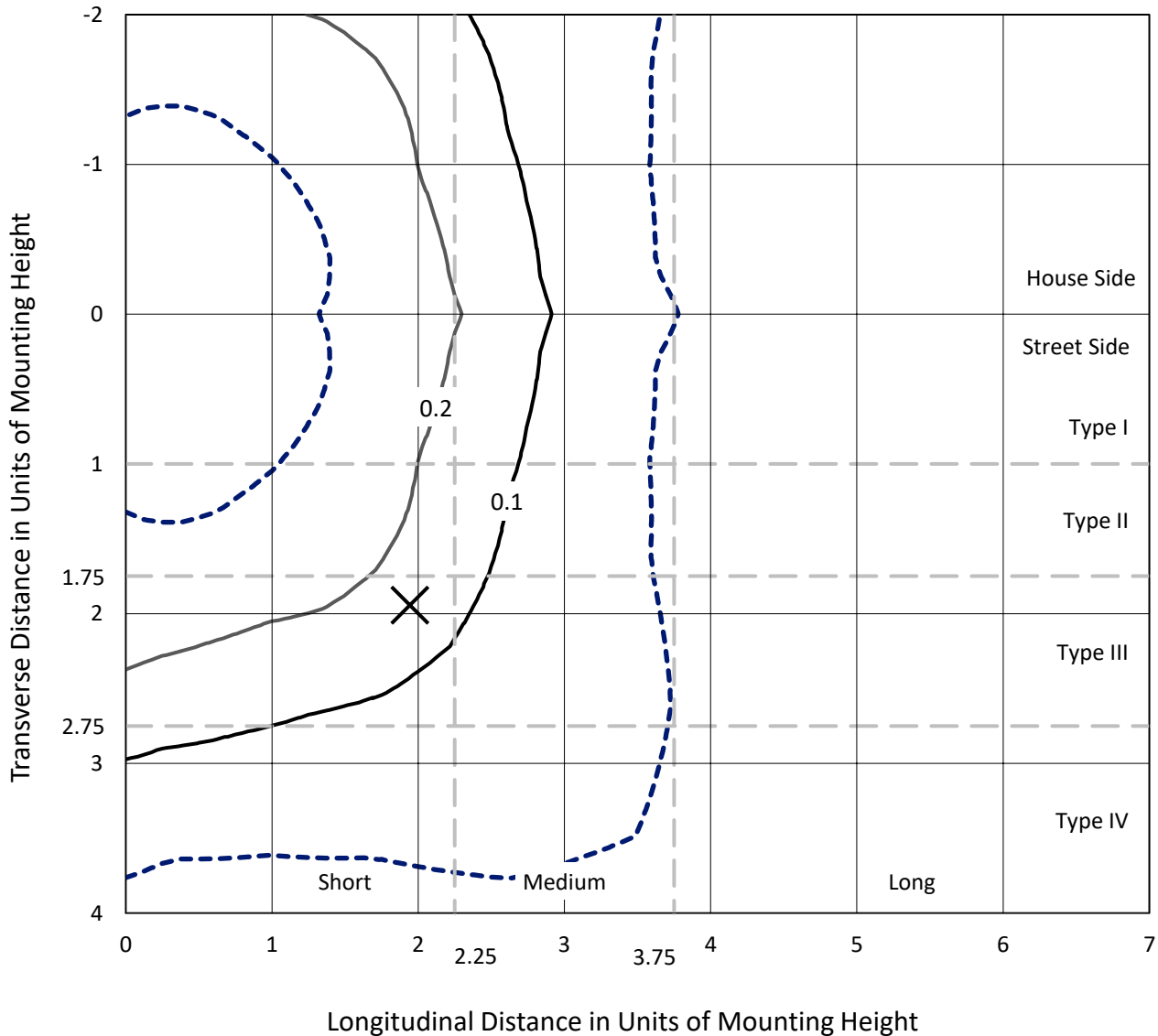


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Iso-Footcandle Lines of Horizontal Illumination

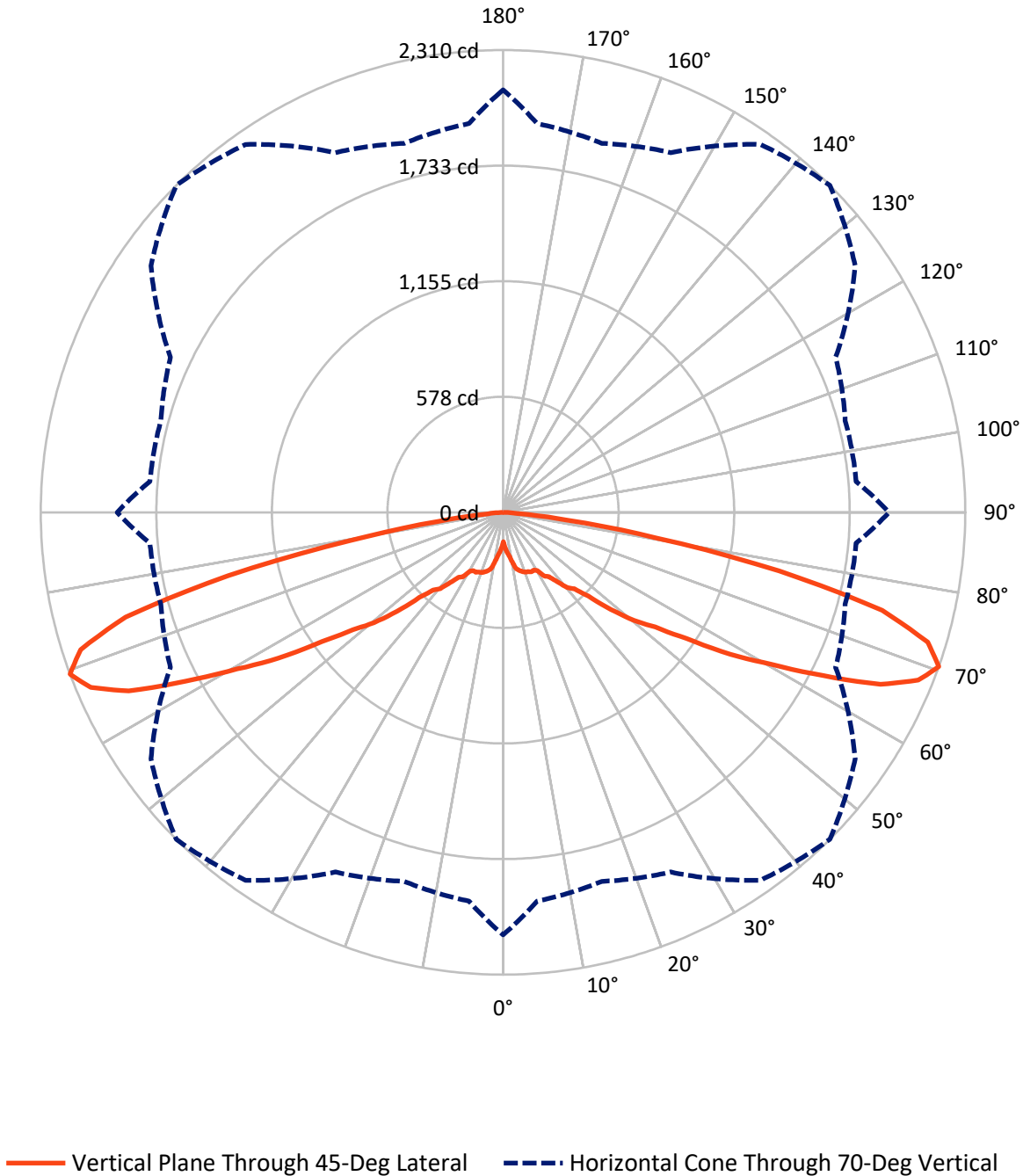
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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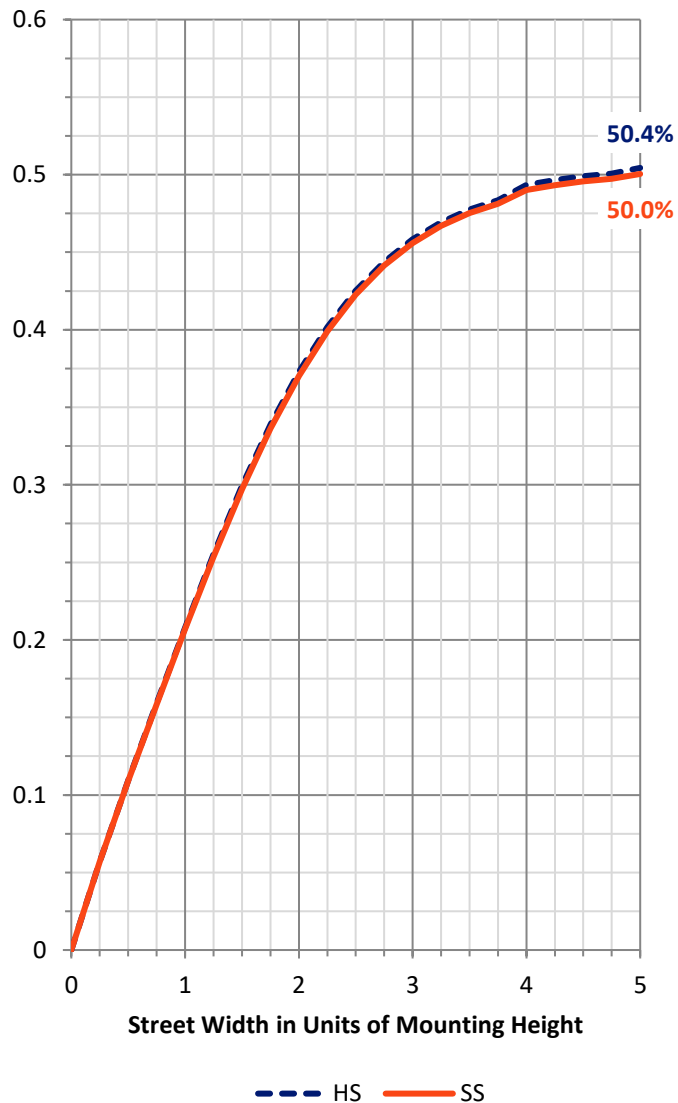
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2716.5 | 0.0 | 2716.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2716.5 | 0.0 | 2716.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 5433.0 | 0.0 | 5433.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 21.4 | 0.4 |
| 10°-20° | 85.5 | 1.6 |
| 20°-30° | 161.7 | 3.0 |
| 30°-40° | 281.6 | 5.2 |
| 40°-50° | 538.4 | 9.9 |
| 50°-60° | 1044.0 | 19.2 |
| 60°-70° | 1828.1 | 33.6 |
| 70°-80° | 1373.9 | 25.3 |
| 80°-90° | 98.3 | 1.8 |
| 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° | 5433.0 | 100.0 |
| 0°-180° | 5433.0 | 100.0 |

Coefficient of Utilization



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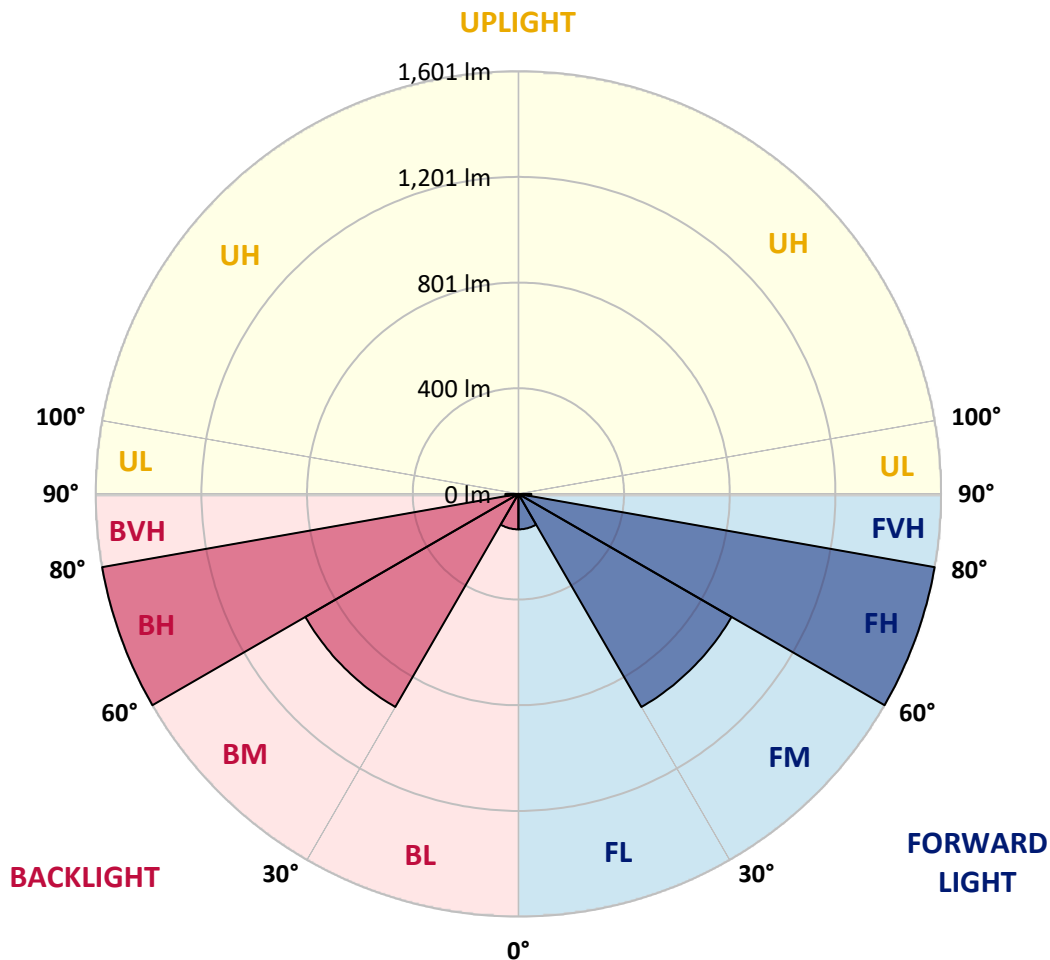
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 134.3 | 2.5 | | | |
| FM (30°-60°) | 932.0 | 17.2 | | | |
| FH (60°-80°) | 1601.0 | 29.5 | | | G1/1800 |
| FVH (80°-90°) | 49.2 | 0.9 | | | G1/100 |
| BL (0°-30°) | 134.3 | 2.5 | B1/500 | | |
| BM (30°-60°) | 932.0 | 17.2 | B1/1000 | | |
| BH (60°-80°) | 1601.0 | 29.5 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 49.2 | 0.9 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 146.9 | 146.9 | 146.9 | 146.9 | 146.9 | 146.9 | 146.9 | 146.9 | 146.9 | 146.9 | 146.9 |
| 2.5° | 178.7 | 176.0 | 167.3 | 167.8 | 171.8 | 172.2 | 172.6 | 167.3 | 166.1 | 176.8 | 177.5 |
| 5° | 227.0 | 220.7 | 214.3 | 211.8 | 208.0 | 197.5 | 209.1 | 210.3 | 212.9 | 221.1 | 224.9 |
| 7.5° | 259.2 | 251.4 | 242.8 | 237.5 | 227.2 | 218.6 | 228.0 | 235.8 | 240.9 | 250.2 | 255.4 |
| 10° | 265.4 | 260.7 | 260.3 | 251.0 | 249.1 | 252.3 | 251.7 | 251.9 | 259.5 | 259.7 | 262.8 |
| 12.5° | 284.5 | 287.9 | 281.4 | 278.2 | 280.1 | 287.9 | 281.6 | 278.8 | 280.7 | 289.4 | 285.8 |
| 15° | 309.6 | 313.6 | 303.7 | 298.7 | 293.6 | 301.0 | 294.4 | 299.3 | 305.4 | 311.7 | 308.6 |
| 17.5° | 337.4 | 337.6 | 324.2 | 305.4 | 309.8 | 310.9 | 308.6 | 304.6 | 322.1 | 337.2 | 335.8 |
| 20° | 352.6 | 352.4 | 329.2 | 303.7 | 316.8 | 319.1 | 317.0 | 303.3 | 329.6 | 350.5 | 349.9 |
| 22.5° | 368.2 | 363.6 | 335.8 | 315.1 | 319.9 | 321.8 | 317.0 | 315.7 | 335.8 | 364.8 | 364.6 |
| 25° | 376.6 | 380.6 | 350.1 | 337.2 | 333.2 | 328.8 | 333.0 | 335.1 | 354.3 | 382.8 | 374.5 |
| 27.5° | 403.0 | 396.5 | 354.3 | 353.0 | 344.6 | 327.1 | 341.7 | 352.0 | 353.0 | 399.0 | 407.4 |
| 30° | 426.8 | 429.3 | 373.3 | 375.2 | 359.8 | 337.6 | 360.2 | 376.6 | 379.8 | 429.8 | 428.9 |
| 32.5° | 452.1 | 453.1 | 407.0 | 387.4 | 380.9 | 380.0 | 371.4 | 385.7 | 410.6 | 450.6 | 452.3 |
| 35° | 490.5 | 499.1 | 437.1 | 410.8 | 402.6 | 394.1 | 401.7 | 414.6 | 437.8 | 497.8 | 493.6 |
| 37.5° | 578.3 | 564.6 | 502.7 | 448.1 | 442.6 | 439.2 | 445.3 | 454.6 | 502.0 | 566.1 | 585.7 |
| 40° | 639.7 | 633.1 | 548.8 | 509.8 | 475.3 | 493.4 | 479.1 | 514.9 | 554.1 | 633.6 | 646.2 |
| 42.5° | 734.7 | 705.6 | 619.0 | 570.8 | 534.9 | 522.1 | 530.1 | 576.9 | 626.8 | 715.3 | 740.2 |
| 45° | 826.0 | 781.1 | 706.9 | 664.3 | 610.0 | 596.5 | 607.2 | 662.2 | 720.0 | 790.0 | 833.8 |
| 47.5° | 919.2 | 872.8 | 791.2 | 729.7 | 685.2 | 725.5 | 690.3 | 742.5 | 800.1 | 881.4 | 920.4 |
| 50° | 1015.9 | 964.5 | 884.0 | 816.9 | 813.1 | 848.8 | 806.6 | 833.4 | 886.7 | 971.0 | 1016.9 |
| 52.5° | 1127.0 | 1071.5 | 991.0 | 945.7 | 954.6 | 952.2 | 943.8 | 939.0 | 991.4 | 1074.3 | 1128.9 |
| 55° | 1259.1 | 1199.3 | 1135.0 | 1114.1 | 1138.6 | 1112.2 | 1124.7 | 1123.0 | 1130.6 | 1189.8 | 1253.6 |
| 57.5° | 1418.9 | 1351.2 | 1286.7 | 1282.1 | 1313.5 | 1338.4 | 1316.2 | 1284.4 | 1271.1 | 1328.7 | 1401.8 |
| 60° | 1620.2 | 1537.1 | 1466.3 | 1451.8 | 1541.3 | 1541.1 | 1521.1 | 1449.9 | 1444.8 | 1509.9 | 1598.0 |
| 62.5° | 1842.5 | 1741.4 | 1664.0 | 1640.8 | 1781.2 | 1797.0 | 1734.6 | 1606.9 | 1633.0 | 1685.5 | 1790.0 |
| 65° | 2031.4 | 1909.8 | 1837.7 | 1831.4 | 2002.9 | 2072.7 | 1934.8 | 1760.1 | 1768.5 | 1812.2 | 1925.4 |
| 67.5° | 2154.5 | 2008.0 | 1950.6 | 1981.2 | 2194.5 | 2238.1 | 2110.0 | 1862.5 | 1832.6 | 1850.7 | 1986.1 |
| 70° | 2111.2 | 1950.2 | 1908.9 | 1983.1 | 2244.0 | 2310.0 | 2147.7 | 1833.9 | 1770.2 | 1771.1 | 1928.3 |
| 72.5° | 1783.9 | 1630.7 | 1650.3 | 1786.5 | 2126.8 | 2219.4 | 1973.2 | 1656.4 | 1526.2 | 1523.0 | 1665.7 |
| 75° | 1179.7 | 1077.2 | 1154.6 | 1366.8 | 1768.1 | 1957.4 | 1634.9 | 1298.3 | 1135.0 | 1081.9 | 1192.1 |
| 77.5° | 516.0 | 502.9 | 568.0 | 807.9 | 1205.4 | 1410.7 | 1171.2 | 848.1 | 617.3 | 513.4 | 560.9 |
| 80° | 138.3 | 135.3 | 169.9 | 306.5 | 586.8 | 776.9 | 633.8 | 338.3 | 176.6 | 128.6 | 136.4 |
| 82.5° | 50.4 | 51.6 | 63.0 | 85.8 | 193.3 | 327.1 | 210.6 | 98.8 | 66.8 | 54.8 | 54.8 |
| 85° | 21.9 | 21.3 | 30.6 | 34.4 | 52.7 | 74.0 | 60.5 | 41.9 | 33.7 | 25.3 | 24.2 |
| 87.5° | 5.9 | 7.4 | 10.3 | 10.7 | 13.7 | 11.2 | 16.0 | 14.8 | 12.6 | 8.9 | 7.2 |
| 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)