

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: P597929

Luminaire Tested: **PMM-SA1C-827-U-5WQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597929
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-4)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1C-827-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: 4946 lumens
Efficiency: N/A
Efficacy: 83.8 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): 59
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

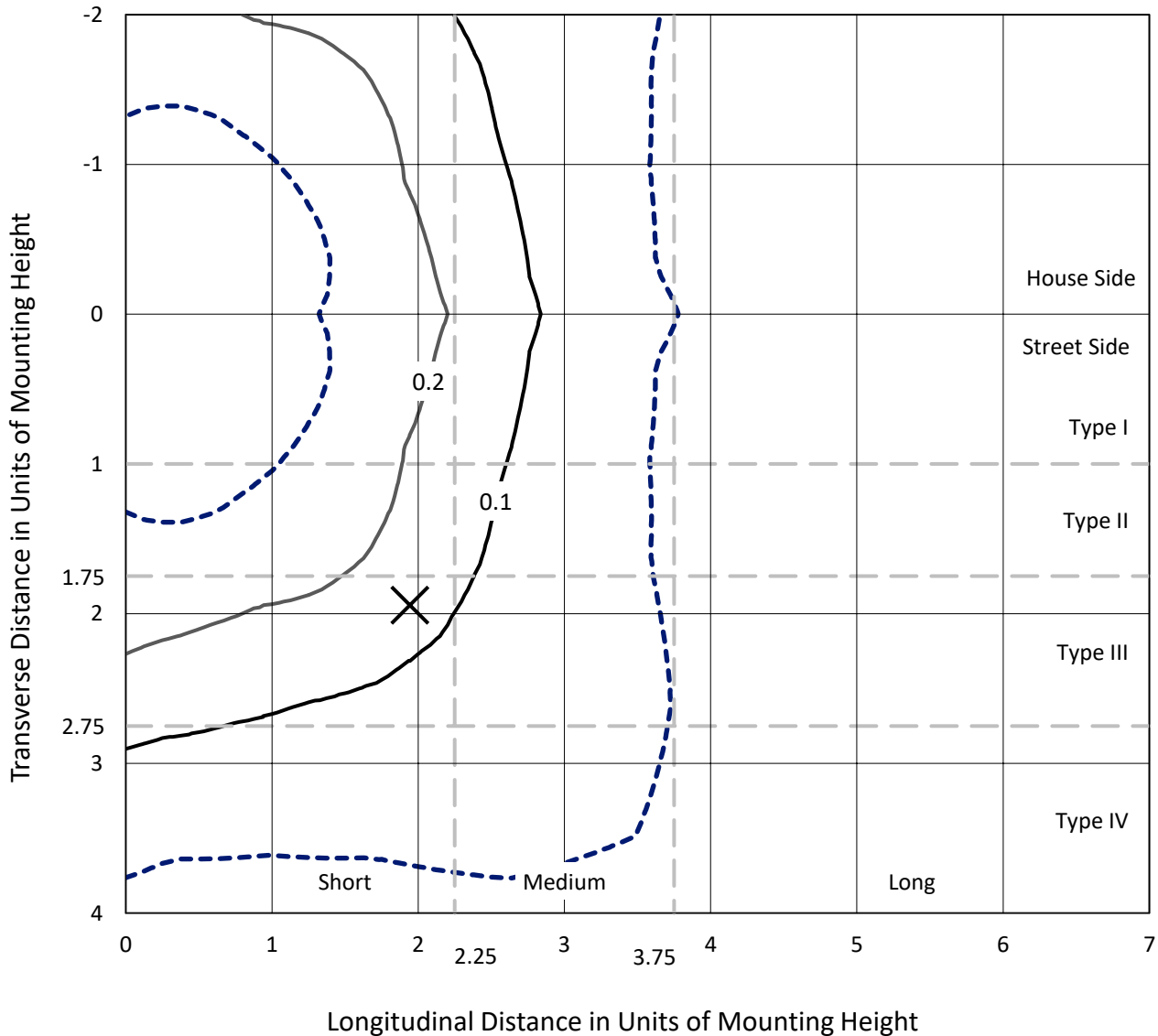


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Iso-Footcandle Lines of Horizontal Illumination

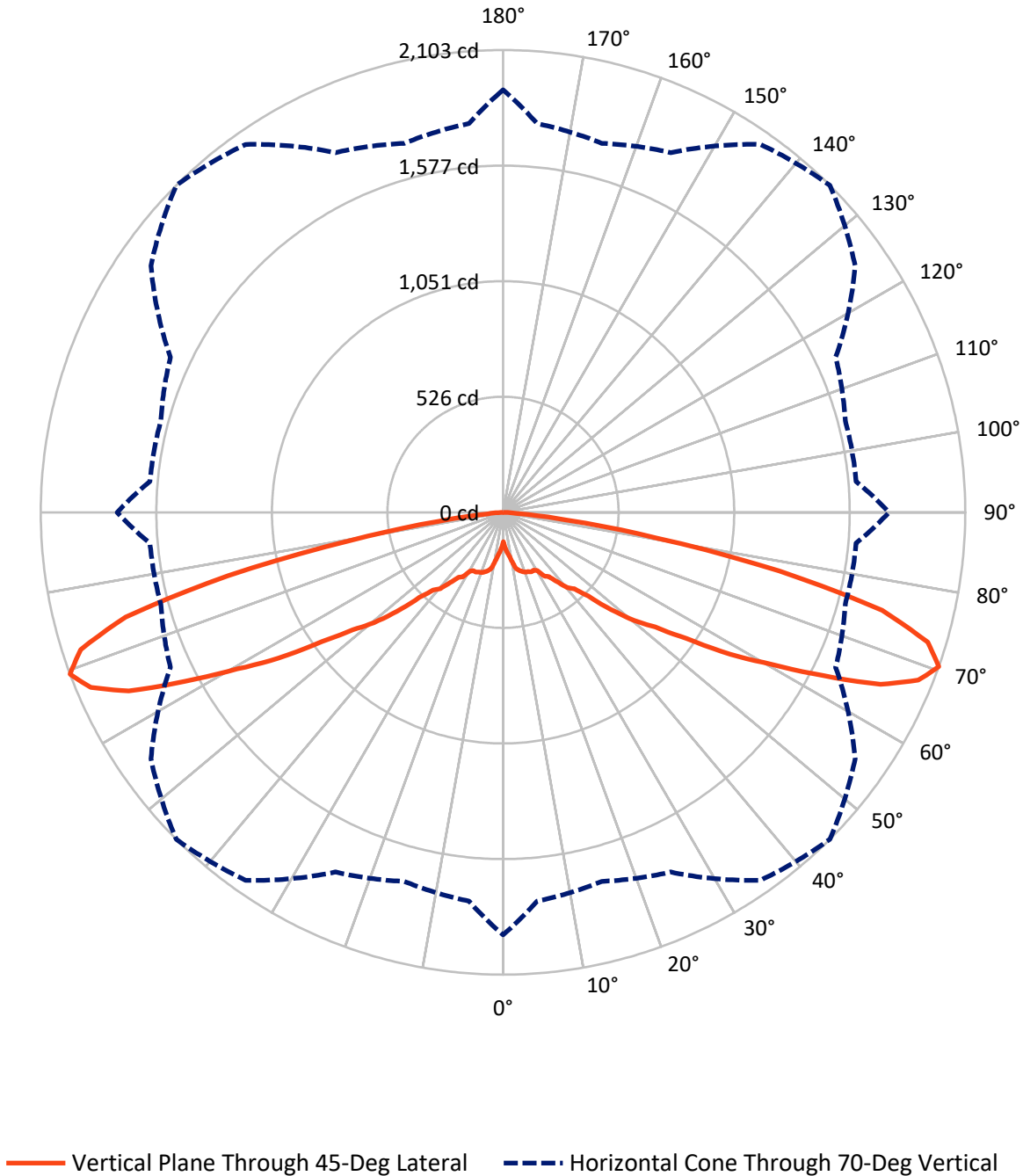
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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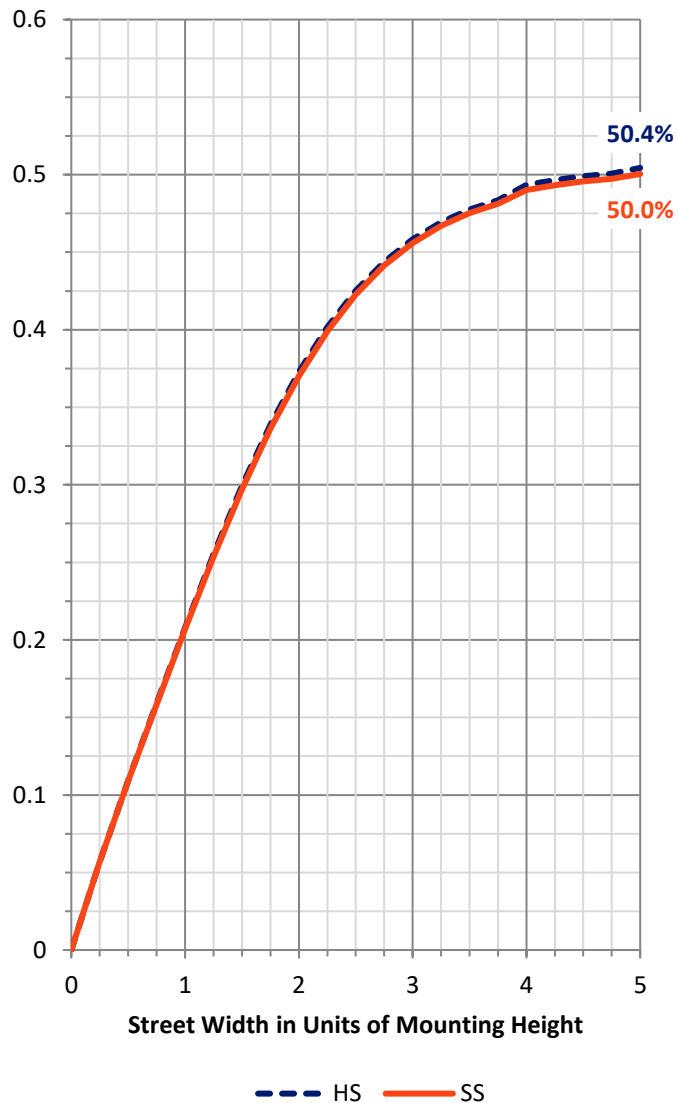
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2473.0 | 0.0 | 2473.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2473.0 | 0.0 | 2473.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4946.0 | 0.0 | 4946.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 19.4 | 0.4 |
| 10°-20° | 77.9 | 1.6 |
| 20°-30° | 147.2 | 3.0 |
| 30°-40° | 256.4 | 5.2 |
| 40°-50° | 490.2 | 9.9 |
| 50°-60° | 950.4 | 19.2 |
| 60°-70° | 1664.2 | 33.6 |
| 70°-80° | 1250.8 | 25.3 |
| 80°-90° | 89.5 | 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° | 4946.0 | 100.0 |
| 0°-180° | 4946.0 | 100.0 |

Coefficient of Utilization



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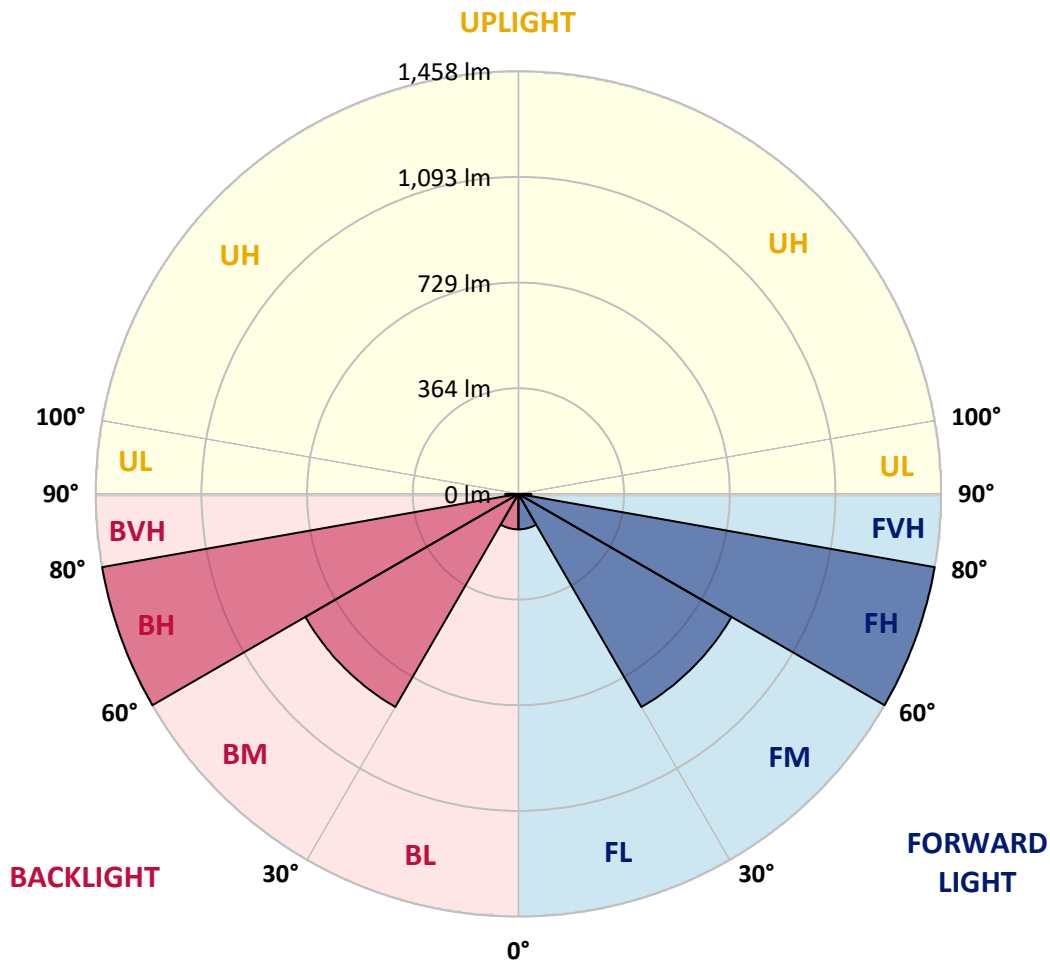
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 122.3 | 2.5 | | | |
| FM (30°-60°) | 848.5 | 17.2 | | | |
| FH (60°-80°) | 1457.5 | 29.5 | | | G1/1800 |
| FVH (80°-90°) | 44.8 | 0.9 | | | G1/100 |
| BL (0°-30°) | 122.3 | 2.5 | B1/500 | | |
| BM (30°-60°) | 848.5 | 17.2 | B1/1000 | | |
| BH (60°-80°) | 1457.5 | 29.5 | B3/2500 | | G1/1800 |
| BVH (80°-90°) | 44.8 | 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° | 133.7 | 133.7 | 133.7 | 133.7 | 133.7 | 133.7 | 133.7 | 133.7 | 133.7 | 133.7 | 133.7 |
| 2.5° | 162.7 | 160.2 | 152.3 | 152.7 | 156.4 | 156.8 | 157.1 | 152.3 | 151.2 | 161.0 | 161.6 |
| 5° | 206.6 | 200.9 | 195.1 | 192.8 | 189.4 | 179.8 | 190.3 | 191.5 | 193.8 | 201.3 | 204.7 |
| 7.5° | 236.0 | 228.9 | 221.0 | 216.2 | 206.8 | 199.0 | 207.6 | 214.7 | 219.3 | 227.8 | 232.6 |
| 10° | 241.6 | 237.3 | 237.0 | 228.5 | 226.8 | 229.7 | 229.1 | 229.3 | 236.2 | 236.4 | 239.3 |
| 12.5° | 259.0 | 262.1 | 256.2 | 253.3 | 255.0 | 262.1 | 256.3 | 253.8 | 255.6 | 263.4 | 260.2 |
| 15° | 281.9 | 285.5 | 276.5 | 271.9 | 267.3 | 274.0 | 268.0 | 272.5 | 278.0 | 283.8 | 280.9 |
| 17.5° | 307.2 | 307.4 | 295.1 | 278.0 | 282.1 | 283.0 | 280.9 | 277.3 | 293.2 | 307.0 | 305.7 |
| 20° | 321.0 | 320.8 | 299.7 | 276.5 | 288.4 | 290.5 | 288.6 | 276.1 | 300.1 | 319.1 | 318.5 |
| 22.5° | 335.2 | 331.0 | 305.7 | 286.9 | 291.3 | 293.0 | 288.6 | 287.4 | 305.7 | 332.1 | 331.9 |
| 25° | 342.9 | 346.5 | 318.7 | 307.0 | 303.4 | 299.3 | 303.2 | 305.1 | 322.5 | 348.4 | 341.0 |
| 27.5° | 366.9 | 360.9 | 322.5 | 321.4 | 313.7 | 297.8 | 311.0 | 320.4 | 321.4 | 363.2 | 370.9 |
| 30° | 388.5 | 390.8 | 339.8 | 341.5 | 327.5 | 307.4 | 327.9 | 342.9 | 345.8 | 391.2 | 390.5 |
| 32.5° | 411.6 | 412.5 | 370.5 | 352.7 | 346.7 | 345.9 | 338.1 | 351.1 | 373.8 | 410.2 | 411.8 |
| 35° | 446.5 | 454.4 | 397.9 | 374.0 | 366.5 | 358.8 | 365.7 | 377.4 | 398.5 | 453.2 | 449.4 |
| 37.5° | 526.5 | 514.0 | 457.6 | 407.9 | 402.9 | 399.9 | 405.4 | 413.9 | 457.0 | 515.4 | 533.2 |
| 40° | 582.3 | 576.4 | 499.6 | 464.1 | 432.7 | 449.2 | 436.1 | 468.7 | 504.4 | 576.8 | 588.3 |
| 42.5° | 668.9 | 642.4 | 563.5 | 519.6 | 487.0 | 475.3 | 482.6 | 525.2 | 570.6 | 651.2 | 673.9 |
| 45° | 752.0 | 711.1 | 643.5 | 604.8 | 555.3 | 543.0 | 552.8 | 602.9 | 655.4 | 719.1 | 759.1 |
| 47.5° | 836.8 | 794.6 | 720.3 | 664.3 | 623.8 | 660.4 | 628.4 | 676.0 | 728.4 | 802.4 | 837.9 |
| 50° | 924.8 | 878.0 | 804.7 | 743.7 | 740.3 | 772.7 | 734.3 | 758.7 | 807.2 | 884.0 | 925.8 |
| 52.5° | 1026.0 | 975.5 | 902.2 | 860.9 | 869.0 | 866.9 | 859.2 | 854.8 | 902.6 | 978.0 | 1027.7 |
| 55° | 1146.3 | 1091.8 | 1033.2 | 1014.2 | 1036.5 | 1012.5 | 1023.8 | 1022.3 | 1029.2 | 1083.1 | 1141.3 |
| 57.5° | 1291.7 | 1230.1 | 1171.4 | 1167.2 | 1195.8 | 1218.4 | 1198.3 | 1169.3 | 1157.2 | 1209.6 | 1276.2 |
| 60° | 1474.9 | 1399.3 | 1334.9 | 1321.6 | 1403.2 | 1403.0 | 1384.8 | 1319.9 | 1315.3 | 1374.6 | 1454.8 |
| 62.5° | 1677.4 | 1585.3 | 1514.8 | 1493.7 | 1621.5 | 1635.9 | 1579.1 | 1462.8 | 1486.6 | 1534.4 | 1629.6 |
| 65° | 1849.3 | 1738.6 | 1673.0 | 1667.2 | 1823.4 | 1886.9 | 1761.4 | 1602.3 | 1610.0 | 1649.7 | 1752.8 |
| 67.5° | 1961.3 | 1828.0 | 1775.8 | 1803.6 | 1997.8 | 2037.5 | 1920.9 | 1695.6 | 1668.3 | 1684.8 | 1808.0 |
| 70° | 1922.0 | 1775.4 | 1737.8 | 1805.3 | 2042.9 | 2102.9 | 1955.2 | 1669.5 | 1611.6 | 1612.3 | 1755.5 |
| 72.5° | 1624.0 | 1484.5 | 1502.4 | 1626.3 | 1936.2 | 2020.4 | 1796.3 | 1507.9 | 1389.4 | 1386.5 | 1516.4 |
| 75° | 1073.9 | 980.7 | 1051.1 | 1244.3 | 1609.6 | 1781.9 | 1488.4 | 1181.9 | 1033.2 | 984.9 | 1085.2 |
| 77.5° | 469.7 | 457.8 | 517.1 | 735.5 | 1097.3 | 1284.2 | 1066.2 | 772.1 | 562.0 | 467.4 | 510.6 |
| 80° | 125.9 | 123.2 | 154.7 | 279.0 | 534.2 | 707.2 | 577.0 | 308.0 | 160.8 | 117.0 | 124.1 |
| 82.5° | 45.9 | 47.0 | 57.4 | 78.1 | 175.9 | 297.8 | 191.7 | 90.0 | 60.8 | 49.9 | 49.9 |
| 85° | 20.0 | 19.4 | 27.8 | 31.3 | 48.0 | 67.3 | 55.1 | 38.2 | 30.7 | 23.0 | 22.1 |
| 87.5° | 5.4 | 6.7 | 9.4 | 9.8 | 12.5 | 10.2 | 14.6 | 13.4 | 11.5 | 8.1 | 6.5 |
| 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)