

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: P597928

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

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P597928
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-5)
Test Lab: INNOVATIONS CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA1C-827-U-5NQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (1) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4718 lumens
Efficiency: N/A
Efficacy: 80.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B2 - U0 - G1

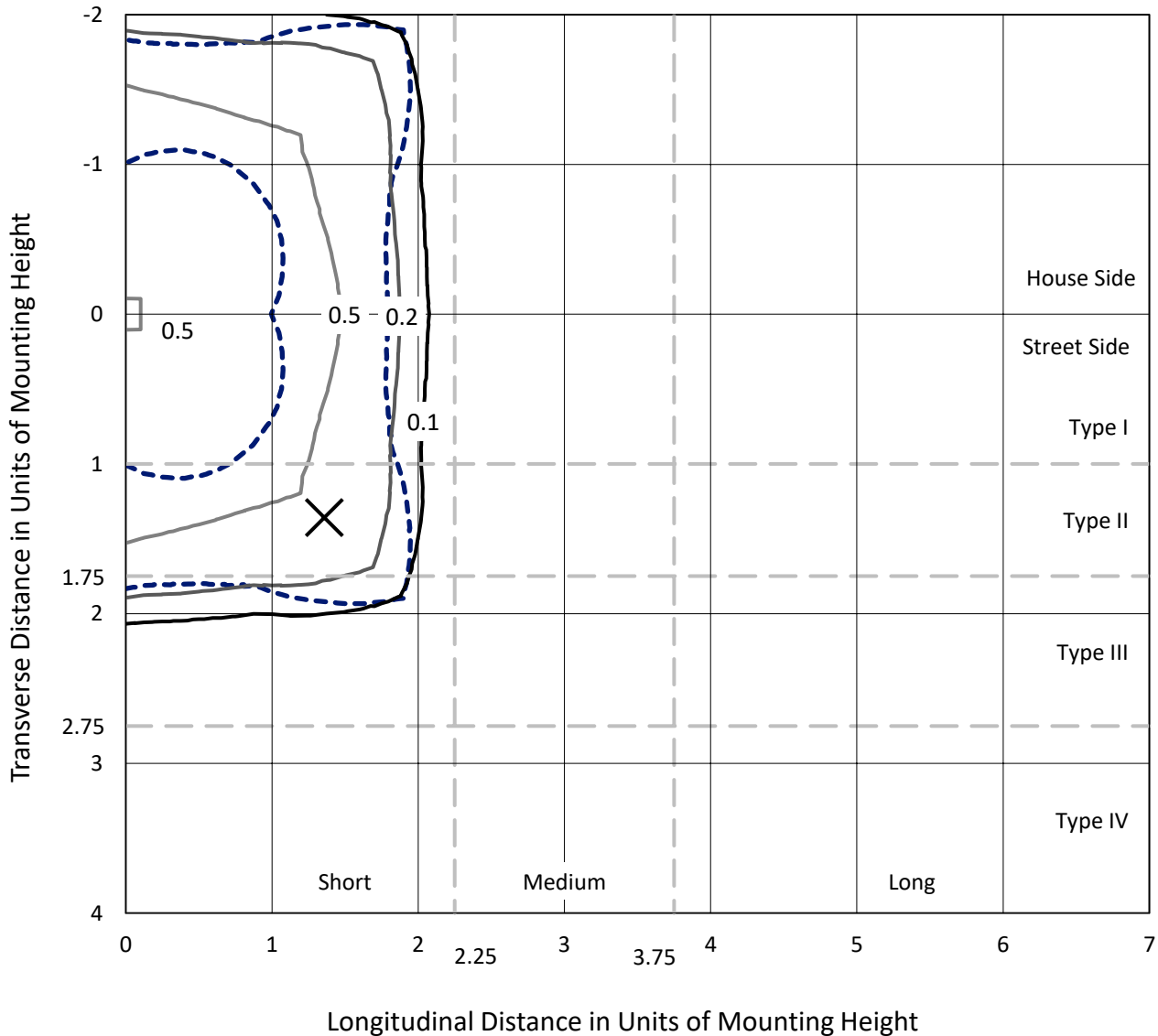
Input Watts (W): 59
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

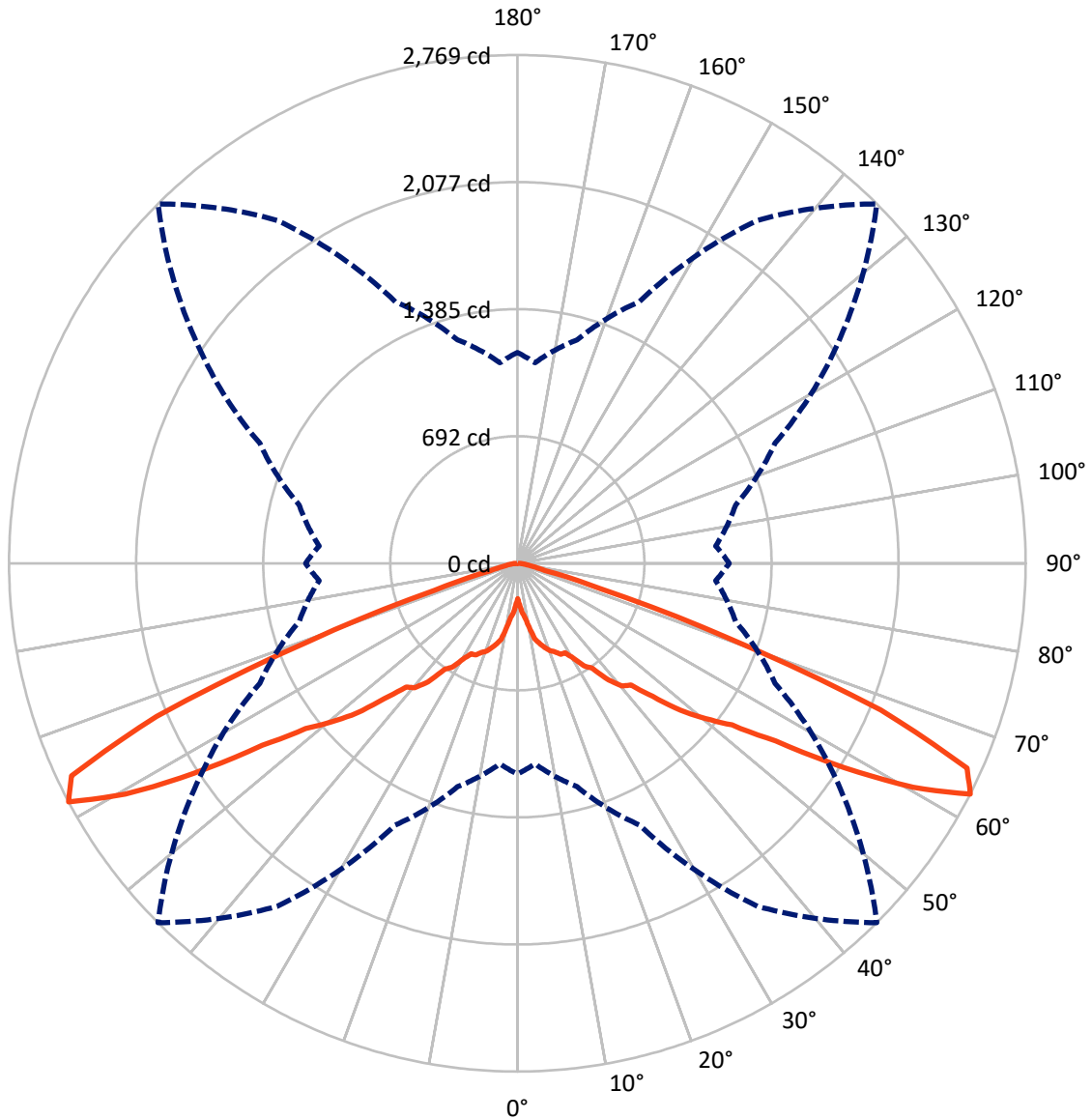
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.8 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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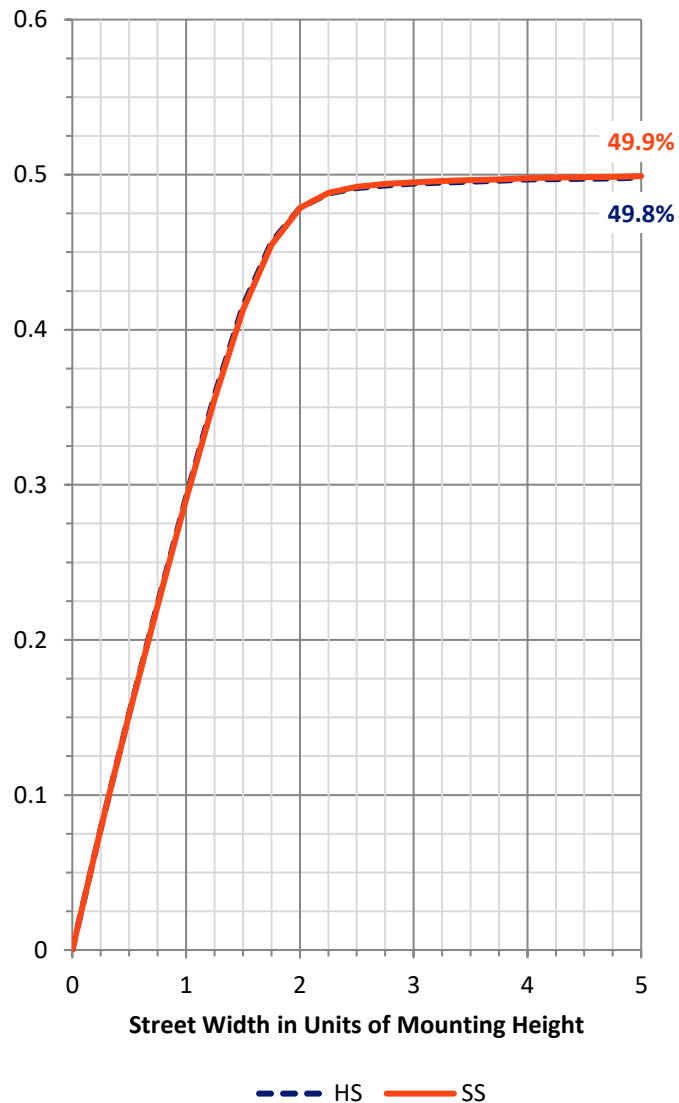
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2359.0 | 0.0 | 2359.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2359.0 | 0.0 | 2359.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4718.0 | 0.0 | 4718.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 29.1 | 0.6 |
| 10°-20° | 128.2 | 2.7 |
| 20°-30° | 268.7 | 5.7 |
| 30°-40° | 506.2 | 10.7 |
| 40°-50° | 918.8 | 19.5 |
| 50°-60° | 1552.5 | 32.9 |
| 60°-70° | 1160.6 | 24.6 |
| 70°-80° | 129.8 | 2.8 |
| 80°-90° | 24.2 | 0.5 |
| 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° | 4718.0 | 100.0 |
| 0°-180° | 4718.0 | 100.0 |

Coefficient of Utilization



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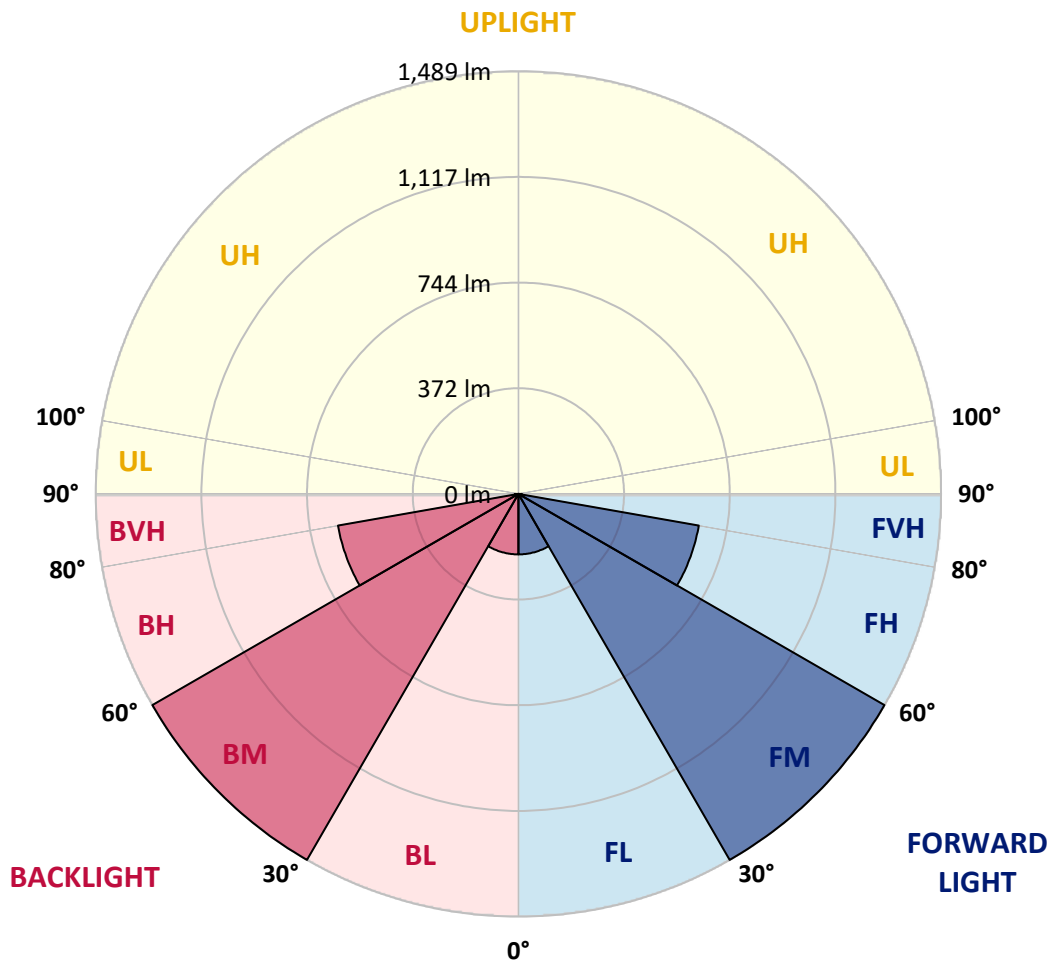
CATALOG NUMBER: PMM-SA1C-827-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 213.0 | 4.5 | | | |
| FM (30°-60°) | 1488.7 | 31.6 | | | |
| FH (60°-80°) | 645.2 | 13.7 | | | G0/660 |
| FVH (80°-90°) | 12.1 | 0.3 | | | G1/100 |
| BL (0°-30°) | 213.0 | 4.5 | B1/500 | | |
| BM (30°-60°) | 1488.7 | 31.6 | B2/2500 | | |
| BH (60°-80°) | 645.2 | 13.7 | B2/1000 | | G0/660 |
| BVH (80°-90°) | 12.1 | 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-G1

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 192.9 | 192.9 | 192.9 | 192.9 | 192.9 | 192.9 | 192.9 | 192.9 | 192.9 | 192.9 | 192.9 |
| 2.5° | 234.6 | 230.3 | 215.6 | 220.7 | 226.1 | 225.3 | 224.0 | 220.0 | 216.3 | 231.5 | 234.6 |
| 5° | 299.1 | 289.5 | 284.3 | 280.1 | 279.1 | 268.7 | 282.9 | 281.4 | 286.2 | 294.3 | 302.1 |
| 7.5° | 350.5 | 341.5 | 327.8 | 325.0 | 309.4 | 297.9 | 310.2 | 325.3 | 330.1 | 344.9 | 353.8 |
| 10° | 369.3 | 361.4 | 363.9 | 351.1 | 350.3 | 353.6 | 350.9 | 354.3 | 367.0 | 365.3 | 371.8 |
| 12.5° | 411.5 | 412.9 | 404.8 | 401.6 | 408.1 | 422.3 | 410.2 | 406.0 | 402.9 | 415.9 | 420.0 |
| 15° | 451.1 | 458.9 | 445.7 | 443.6 | 440.9 | 454.1 | 441.1 | 447.4 | 453.0 | 455.7 | 454.1 |
| 17.5° | 507.1 | 507.5 | 492.7 | 469.1 | 477.9 | 482.2 | 476.4 | 465.5 | 491.8 | 505.0 | 505.8 |
| 20° | 544.0 | 545.3 | 516.1 | 479.3 | 504.2 | 508.1 | 505.2 | 482.4 | 517.3 | 539.4 | 538.4 |
| 22.5° | 583.7 | 579.1 | 539.6 | 512.7 | 521.5 | 523.8 | 517.7 | 514.8 | 539.4 | 579.5 | 573.5 |
| 25° | 610.4 | 618.8 | 579.5 | 562.2 | 554.7 | 549.4 | 557.2 | 558.8 | 583.9 | 620.4 | 600.2 |
| 27.5° | 674.1 | 659.5 | 597.9 | 604.4 | 588.5 | 552.2 | 586.8 | 605.8 | 600.4 | 662.6 | 677.8 |
| 30° | 730.7 | 731.1 | 644.7 | 657.2 | 627.7 | 598.3 | 635.7 | 663.2 | 656.5 | 736.1 | 721.7 |
| 32.5° | 803.1 | 805.8 | 725.6 | 692.2 | 672.2 | 666.6 | 662.0 | 692.4 | 734.2 | 798.7 | 800.0 |
| 35° | 881.2 | 904.3 | 795.2 | 760.1 | 726.1 | 701.6 | 728.1 | 770.1 | 797.3 | 900.4 | 882.2 |
| 37.5° | 1033.4 | 994.7 | 905.4 | 839.4 | 817.7 | 807.9 | 821.9 | 846.3 | 905.2 | 994.1 | 1025.4 |
| 40° | 1123.5 | 1112.7 | 991.2 | 935.9 | 852.2 | 878.3 | 870.7 | 937.5 | 986.2 | 1118.9 | 1121.7 |
| 42.5° | 1261.1 | 1207.0 | 1097.7 | 1027.5 | 952.2 | 906.9 | 954.9 | 1044.6 | 1103.5 | 1215.6 | 1268.6 |
| 45° | 1369.9 | 1300.4 | 1216.2 | 1162.8 | 1067.8 | 1034.2 | 1051.5 | 1166.3 | 1240.2 | 1317.1 | 1386.8 |
| 47.5° | 1490.3 | 1415.0 | 1330.8 | 1235.9 | 1143.2 | 1197.9 | 1167.4 | 1268.4 | 1340.6 | 1450.9 | 1516.2 |
| 50° | 1641.5 | 1558.2 | 1450.3 | 1372.0 | 1310.6 | 1329.8 | 1325.0 | 1397.0 | 1486.1 | 1586.6 | 1660.7 |
| 52.5° | 1808.1 | 1713.9 | 1609.9 | 1537.1 | 1511.2 | 1463.6 | 1525.8 | 1555.3 | 1621.0 | 1713.1 | 1800.1 |
| 55° | 1924.6 | 1830.4 | 1767.4 | 1790.9 | 1784.0 | 1707.6 | 1762.1 | 1765.1 | 1733.5 | 1766.7 | 1854.2 |
| 57.5° | 1906.6 | 1816.6 | 1807.9 | 1896.4 | 2028.7 | 2102.6 | 2018.3 | 1837.1 | 1718.5 | 1703.0 | 1795.7 |
| 60° | 1667.1 | 1590.1 | 1669.2 | 1868.8 | 2254.0 | 2479.0 | 2154.6 | 1782.8 | 1587.4 | 1506.6 | 1596.0 |
| 62.5° | 1148.8 | 1096.8 | 1260.7 | 1572.8 | 2281.1 | 2769.4 | 2149.6 | 1549.2 | 1231.1 | 1084.5 | 1154.0 |
| 65° | 544.6 | 525.7 | 664.1 | 997.2 | 1900.1 | 2691.9 | 1878.0 | 1048.2 | 708.7 | 566.1 | 581.8 |
| 67.5° | 204.8 | 195.4 | 243.8 | 440.5 | 1196.8 | 2135.0 | 1262.4 | 517.1 | 274.1 | 213.1 | 220.4 |
| 70° | 116.3 | 109.6 | 115.9 | 160.7 | 481.8 | 1209.3 | 544.6 | 177.4 | 116.5 | 106.1 | 113.1 |
| 72.5° | 91.6 | 86.4 | 87.3 | 97.1 | 166.2 | 474.7 | 176.2 | 101.2 | 84.6 | 80.4 | 86.6 |
| 75° | 75.6 | 71.0 | 70.8 | 76.2 | 96.9 | 154.1 | 99.6 | 77.4 | 68.5 | 65.5 | 70.4 |
| 77.5° | 60.1 | 57.4 | 58.2 | 62.4 | 69.5 | 86.2 | 72.2 | 62.6 | 56.2 | 52.6 | 56.0 |
| 80° | 44.0 | 43.6 | 46.6 | 50.5 | 51.8 | 58.0 | 54.1 | 50.5 | 44.9 | 39.7 | 41.1 |
| 82.5° | 28.8 | 29.0 | 34.7 | 37.8 | 37.2 | 37.0 | 38.8 | 38.6 | 33.6 | 26.3 | 26.3 |
| 85° | 16.5 | 16.9 | 21.3 | 23.8 | 23.4 | 18.6 | 24.6 | 24.8 | 21.5 | 15.9 | 15.4 |
| 87.5° | 5.4 | 6.7 | 9.2 | 9.8 | 9.4 | 5.2 | 9.4 | 10.4 | 9.4 | 6.7 | 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)