

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: STREETWORKS

Report Number: P385791

Luminaire Tested: GAW-SA1B-827-U-5NQ

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-2019
Report Number: P385791
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-5)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: STREETWORKS
Catalog Number: GAW-SA1B-827-U-5NQ
Description: GALLEON WALL LUMINAIRE
(1) 80 CRI, 2700K, 800mA LIGHTSQUARE WITH 16 LEDS AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4628 lumens
Efficiency: N/A
Efficacy: 105.2 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): 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

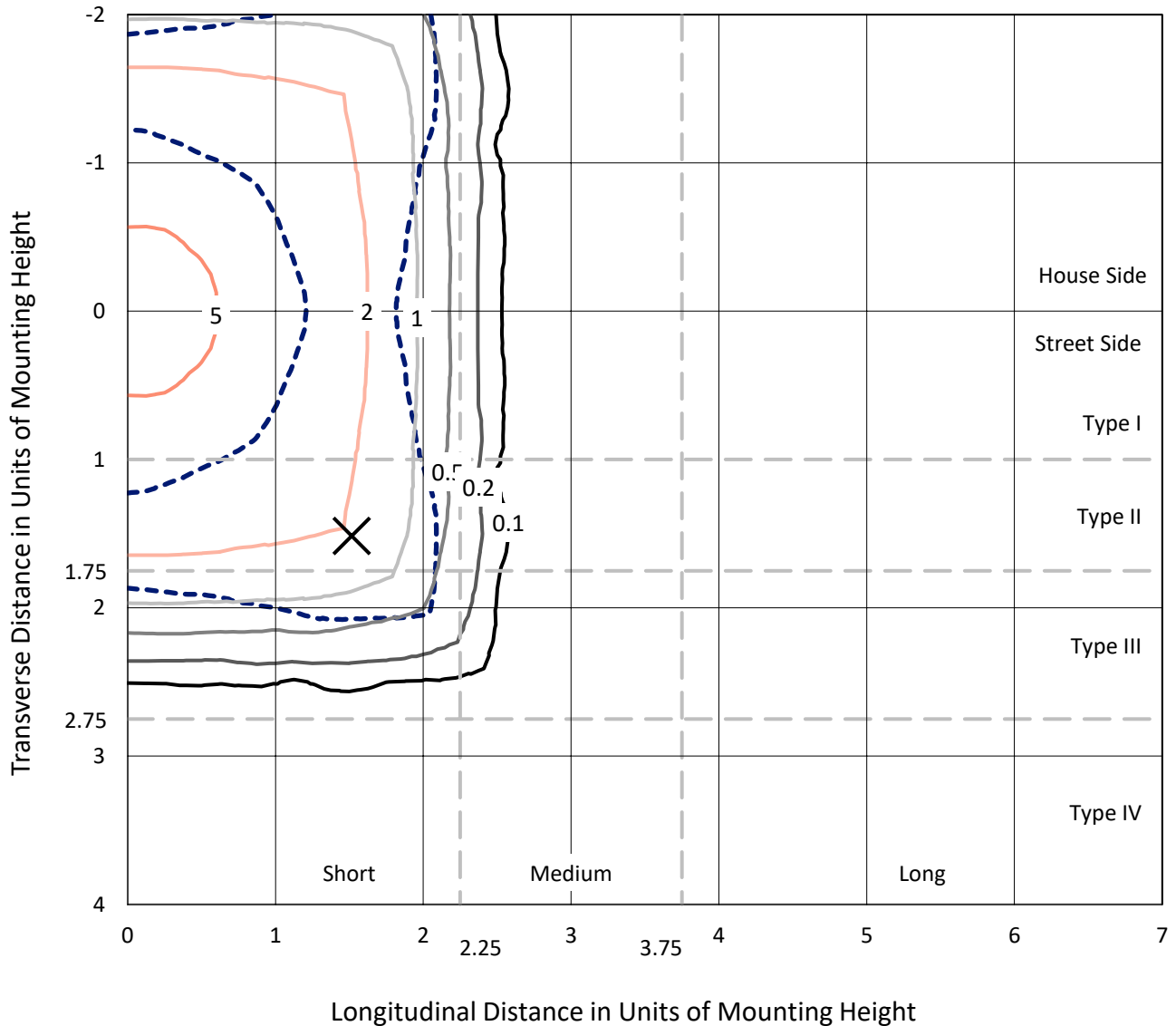




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Iso-Footcandle Lines of Horizontal Illumination

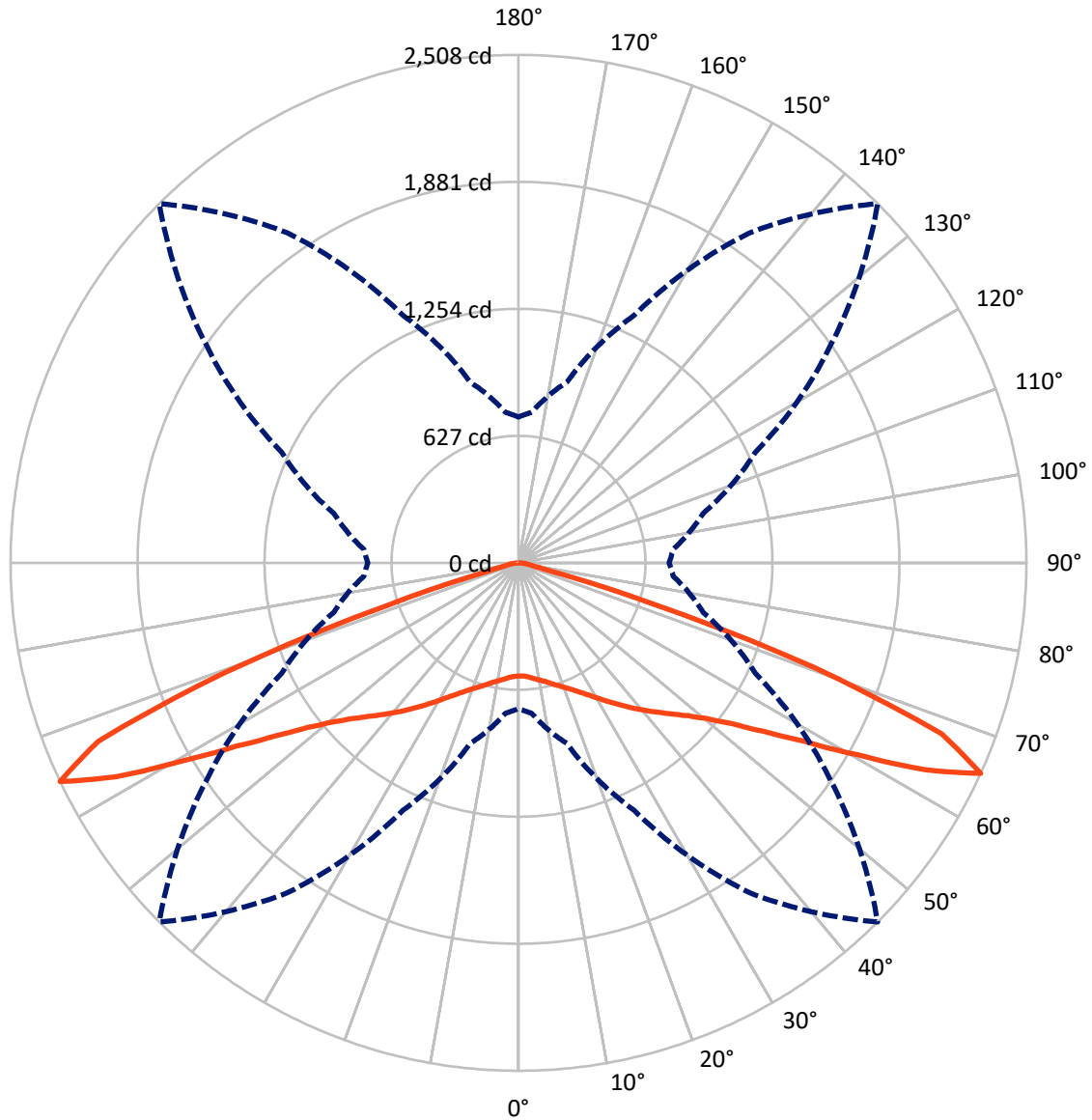
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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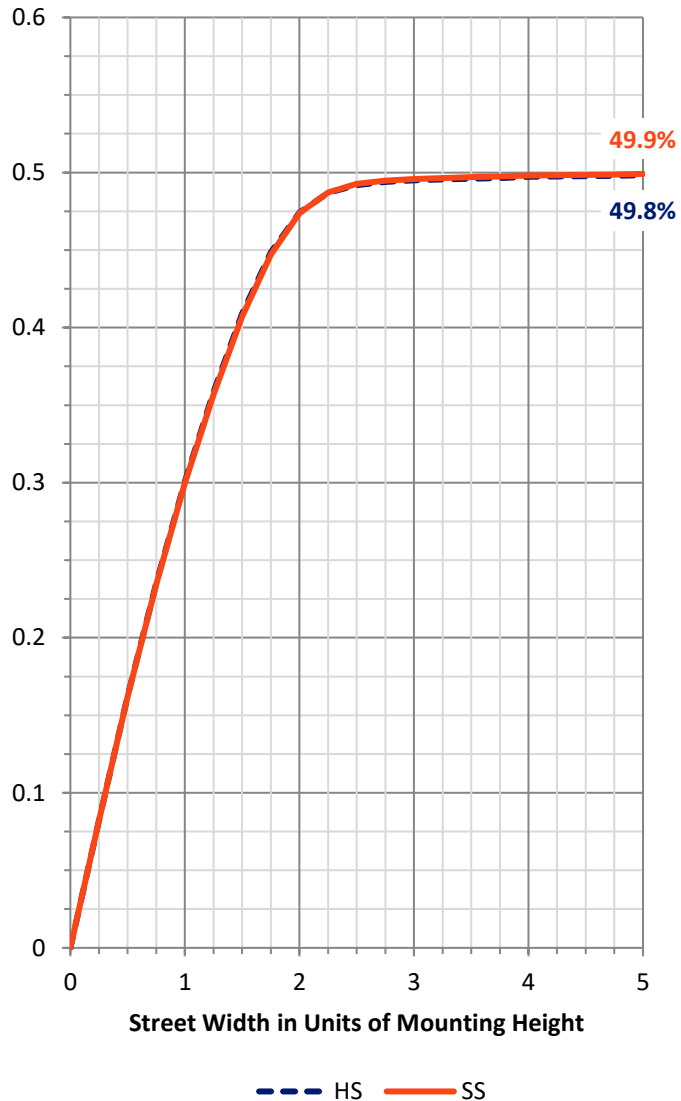
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 2314.0 | 0.0 | 2314.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 2314.0 | 0.0 | 2314.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 4628.0 | 0.0 | 4628.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 54.8 | 1.2 |
| 10°-20° | 176.3 | 3.8 |
| 20°-30° | 330.7 | 7.1 |
| 30°-40° | 546.9 | 11.8 |
| 40°-50° | 847.1 | 18.3 |
| 50°-60° | 1299.1 | 28.1 |
| 60°-70° | 1212.2 | 26.2 |
| 70°-80° | 141.1 | 3.0 |
| 80°-90° | 19.8 | 0.4 |
| 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° | 4628.0 | 100.0 |
| 0°-180° | 4628.0 | 100.0 |

Coefficient of Utilization



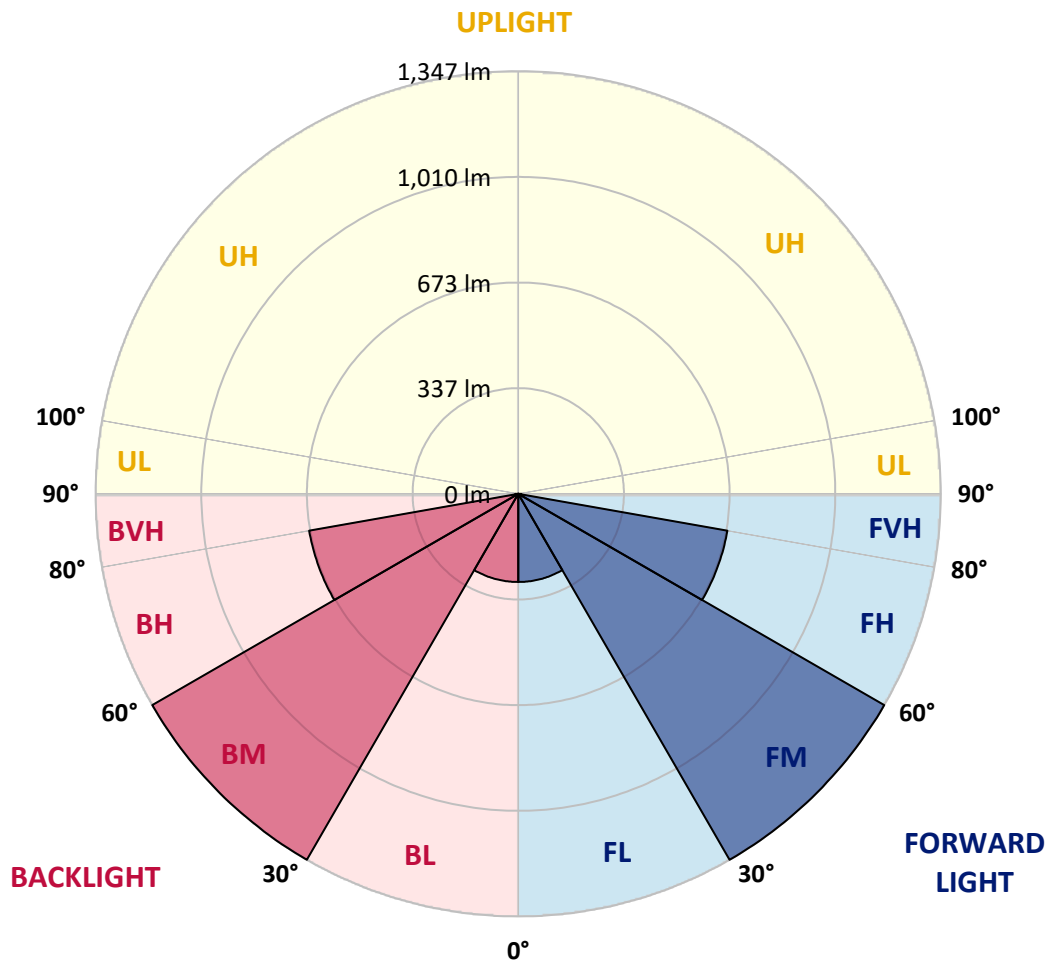
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 280.9 | 6.1 | | | |
| FM (30°-60°) | 1346.5 | 29.1 | | | |
| FH (60°-80°) | 676.7 | 14.6 | | | G1/1800 |
| FVH (80°-90°) | 9.9 | 0.2 | | | G0/10 |
| BL (0°-30°) | 280.9 | 6.1 | B1/500 | | |
| BM (30°-60°) | 1346.5 | 29.1 | B2/2500 | | |
| BH (60°-80°) | 676.7 | 14.6 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 9.9 | 0.2 | | | G0/10 |
| 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° | 558.9 | 558.9 | 558.9 | 558.9 | 558.9 | 558.9 | 558.9 | 558.9 | 558.9 | 558.9 | 558.9 |
| 2.5° | 560.7 | 560.4 | 560.7 | 560.9 | 560.0 | 560.4 | 560.3 | 561.0 | 561.3 | 561.0 | 561.0 |
| 5° | 567.2 | 566.7 | 567.3 | 568.1 | 566.9 | 567.2 | 566.7 | 567.6 | 568.0 | 567.3 | 567.8 |
| 7.5° | 576.1 | 576.2 | 576.9 | 578.2 | 577.5 | 578.1 | 577.2 | 577.3 | 577.2 | 576.2 | 576.4 |
| 10° | 585.8 | 585.9 | 587.0 | 588.8 | 589.2 | 589.2 | 588.5 | 588.1 | 587.5 | 586.8 | 587.0 |
| 12.5° | 597.4 | 598.2 | 599.0 | 601.3 | 601.3 | 602.5 | 602.2 | 601.0 | 599.9 | 599.0 | 599.0 |
| 15° | 613.3 | 613.1 | 614.0 | 616.3 | 617.4 | 619.4 | 619.4 | 617.7 | 616.3 | 615.4 | 615.1 |
| 17.5° | 629.9 | 630.3 | 630.9 | 633.7 | 635.4 | 637.7 | 638.0 | 636.6 | 635.7 | 634.5 | 633.7 |
| 20° | 649.2 | 650.0 | 652.4 | 653.5 | 655.1 | 657.2 | 658.0 | 657.7 | 656.7 | 656.1 | 656.3 |
| 22.5° | 671.8 | 673.8 | 675.3 | 676.9 | 678.7 | 680.3 | 681.0 | 682.1 | 681.2 | 680.7 | 680.4 |
| 25° | 699.1 | 700.5 | 703.6 | 706.4 | 707.6 | 708.1 | 709.0 | 710.5 | 710.4 | 709.3 | 709.3 |
| 27.5° | 730.2 | 732.8 | 736.6 | 740.6 | 740.6 | 739.1 | 742.2 | 744.8 | 743.9 | 742.5 | 740.6 |
| 30° | 767.8 | 770.3 | 774.7 | 780.3 | 777.5 | 776.4 | 780.6 | 785.3 | 784.0 | 781.6 | 781.3 |
| 32.5° | 808.4 | 810.7 | 816.5 | 822.5 | 819.0 | 817.4 | 821.9 | 828.8 | 826.4 | 821.7 | 819.0 |
| 35° | 852.3 | 854.6 | 862.9 | 870.1 | 864.1 | 861.5 | 865.2 | 872.7 | 868.4 | 859.8 | 857.7 |
| 37.5° | 900.1 | 901.3 | 912.1 | 919.4 | 915.3 | 908.4 | 913.0 | 918.5 | 914.8 | 904.4 | 900.2 |
| 40° | 949.7 | 954.2 | 966.6 | 975.2 | 968.0 | 957.1 | 964.8 | 972.4 | 966.9 | 953.6 | 946.5 |
| 42.5° | 1007.6 | 1011.0 | 1027.6 | 1035.3 | 1023.6 | 1008.2 | 1018.7 | 1029.1 | 1023.6 | 1010.7 | 1004.6 |
| 45° | 1067.9 | 1073.1 | 1092.9 | 1100.6 | 1083.7 | 1064.2 | 1076.9 | 1095.2 | 1094.7 | 1076.1 | 1069.7 |
| 47.5° | 1133.4 | 1138.7 | 1162.3 | 1172.5 | 1154.2 | 1128.1 | 1146.0 | 1171.9 | 1170.0 | 1149.6 | 1144.4 |
| 50° | 1209.2 | 1214.7 | 1244.2 | 1257.0 | 1239.9 | 1209.5 | 1236.5 | 1259.3 | 1255.9 | 1230.7 | 1231.2 |
| 52.5° | 1304.3 | 1304.0 | 1340.7 | 1362.8 | 1345.3 | 1318.4 | 1343.3 | 1365.4 | 1351.4 | 1316.6 | 1315.5 |
| 55° | 1387.5 | 1392.6 | 1438.1 | 1480.0 | 1479.0 | 1468.7 | 1478.6 | 1479.6 | 1439.6 | 1393.2 | 1387.5 |
| 57.5° | 1442.2 | 1451.9 | 1516.0 | 1591.9 | 1648.7 | 1662.4 | 1643.0 | 1584.3 | 1490.8 | 1416.6 | 1407.5 |
| 60° | 1408.6 | 1423.3 | 1524.0 | 1678.7 | 1846.1 | 1926.5 | 1817.2 | 1635.2 | 1451.0 | 1347.6 | 1335.3 |
| 62.5° | 1181.5 | 1206.4 | 1353.7 | 1636.7 | 2016.0 | 2250.9 | 1943.5 | 1553.6 | 1292.8 | 1150.3 | 1129.3 |
| 65° | 719.6 | 745.9 | 923.4 | 1347.1 | 1988.5 | 2507.8 | 1885.9 | 1289.5 | 943.6 | 766.4 | 743.7 |
| 67.5° | 239.8 | 247.5 | 352.1 | 744.6 | 1562.8 | 2253.2 | 1565.4 | 772.0 | 410.6 | 272.2 | 264.2 |
| 70° | 93.9 | 94.6 | 111.7 | 215.8 | 738.0 | 1547.6 | 814.4 | 219.7 | 116.8 | 92.3 | 94.3 |
| 72.5° | 69.0 | 69.3 | 74.0 | 90.2 | 192.3 | 681.8 | 199.3 | 90.6 | 72.1 | 64.7 | 64.7 |
| 75° | 55.5 | 55.5 | 58.8 | 65.8 | 86.2 | 156.4 | 87.4 | 65.0 | 56.4 | 51.6 | 51.0 |
| 77.5° | 43.8 | 44.7 | 47.3 | 51.8 | 58.4 | 75.3 | 60.5 | 51.5 | 45.5 | 41.0 | 40.1 |
| 80° | 32.6 | 33.5 | 37.8 | 39.9 | 41.9 | 52.2 | 44.7 | 40.2 | 35.9 | 30.7 | 29.8 |
| 82.5° | 21.4 | 22.3 | 27.7 | 28.9 | 28.4 | 34.1 | 30.1 | 29.6 | 26.4 | 19.8 | 18.9 |
| 85° | 14.0 | 14.3 | 18.4 | 19.2 | 17.7 | 15.5 | 19.2 | 20.3 | 18.4 | 12.9 | 12.4 |
| 87.5° | 6.6 | 6.6 | 9.4 | 8.8 | 8.0 | 6.5 | 8.8 | 10.3 | 10.4 | 6.3 | 6.1 |
| 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)