

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: P507463

Luminaire Tested: **VERD-S-CA1-20-760-U-T1**

Issue Date: 3/30/2021

Test Information

Test Method: LM-79-08
Report Number: P507463
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-2103-168-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/30/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-S-CA1-20-760-U-T1
Description: VERDEON-S ROADWAY AND AREA LUMINAIRE
(1) 70 CRI, 5700K, 430mA LED AND TYPE I OPTIC
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3667 lumens
Efficiency: N/A
Efficacy: 156.7 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 0.83' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 23.4
Input Voltage (V): NR
Input Current (A_{in}): 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: 24 FT

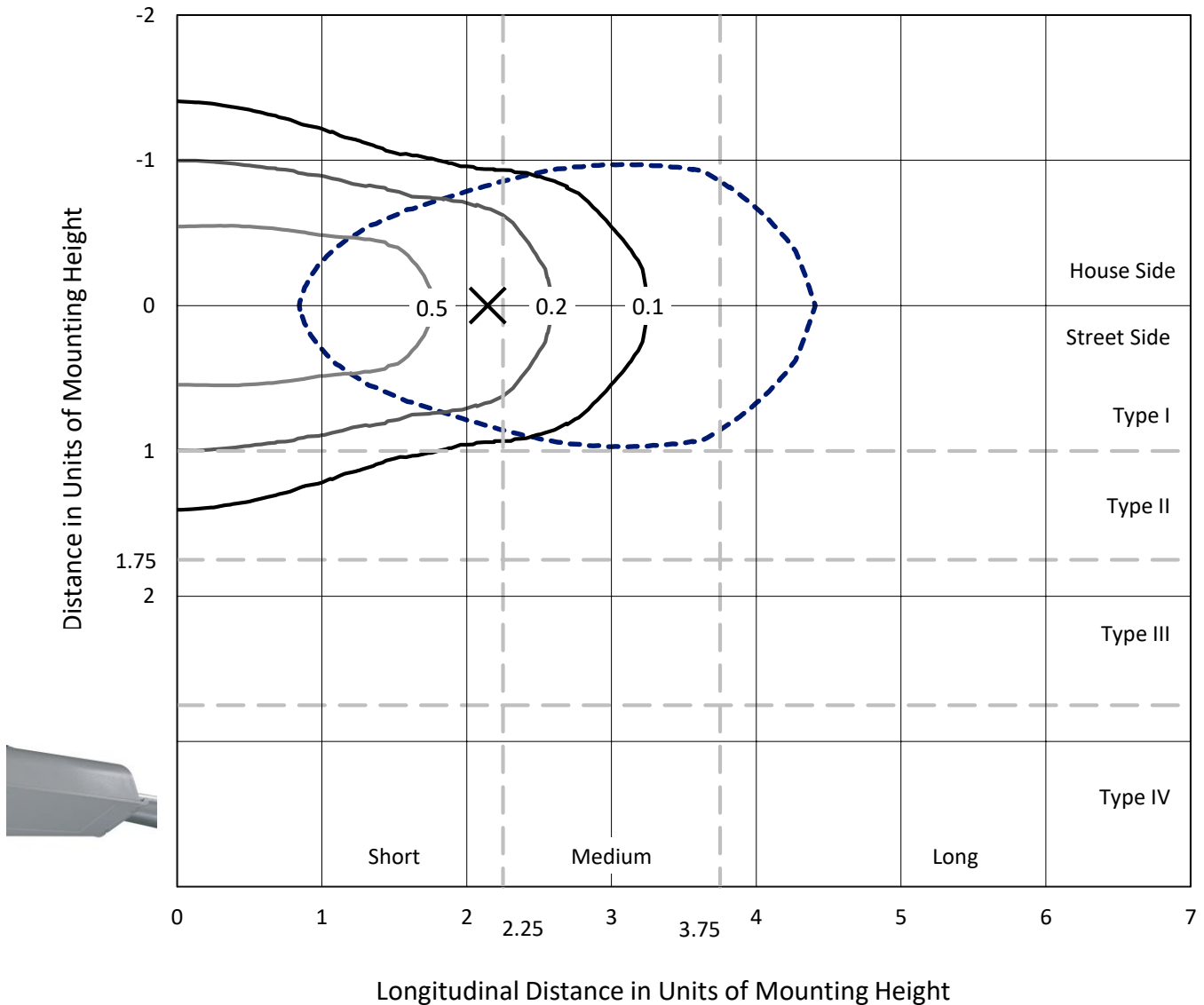


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Iso-Footcandle Lines of Horizontal Illumination

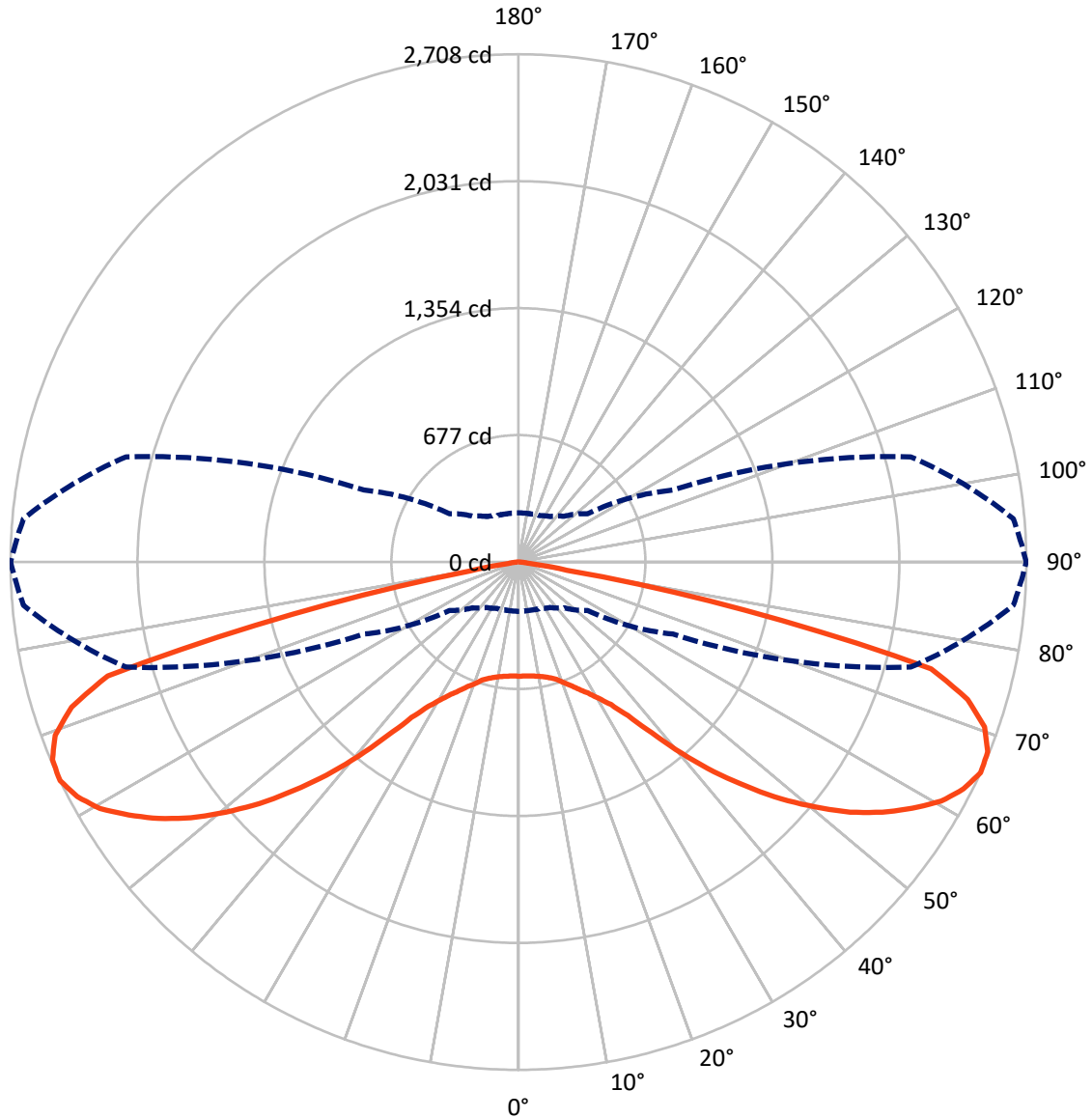
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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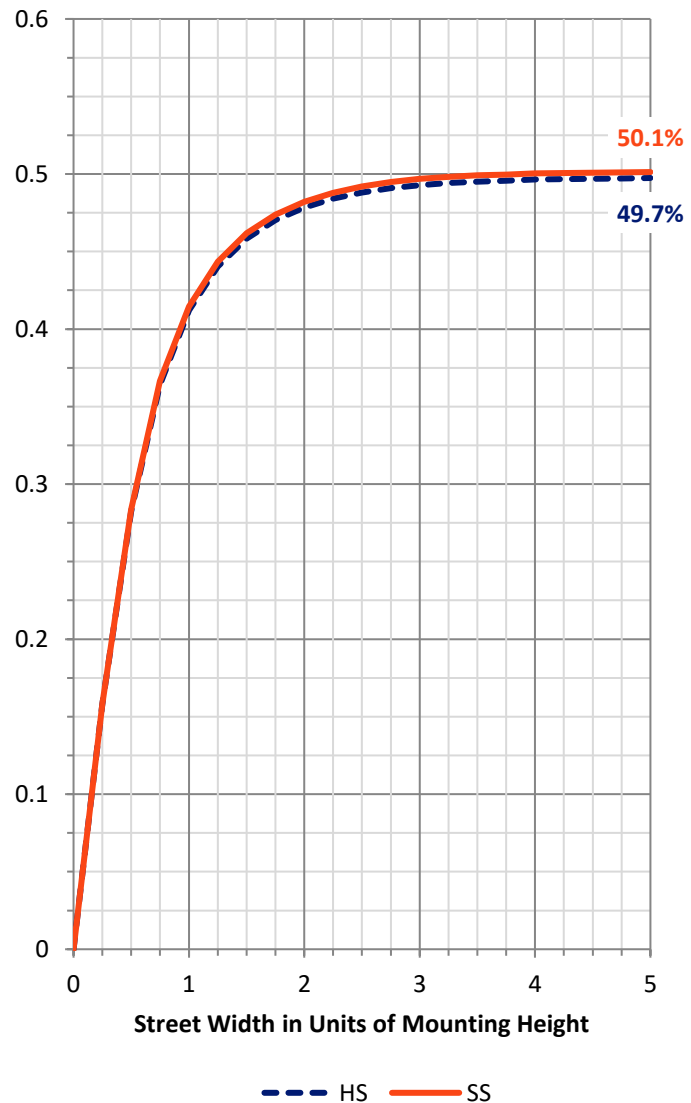
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 1833.5 | 0.0 | 1833.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 1833.5 | 0.0 | 1833.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 3667.0 | 0.0 | 3667.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.3 | 1.6 |
| 10°-20° | 173.9 | 4.7 |
| 20°-30° | 288.0 | 7.9 |
| 30°-40° | 416.9 | 11.4 |
| 40°-50° | 603.5 | 16.5 |
| 50°-60° | 785.5 | 21.4 |
| 60°-70° | 829.6 | 22.6 |
| 70°-80° | 488.3 | 13.3 |
| 80°-90° | 23.1 | 0.6 |
| 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° | 3667.0 | 100.0 |
| 0°-180° | 3667.0 | 100.0 |



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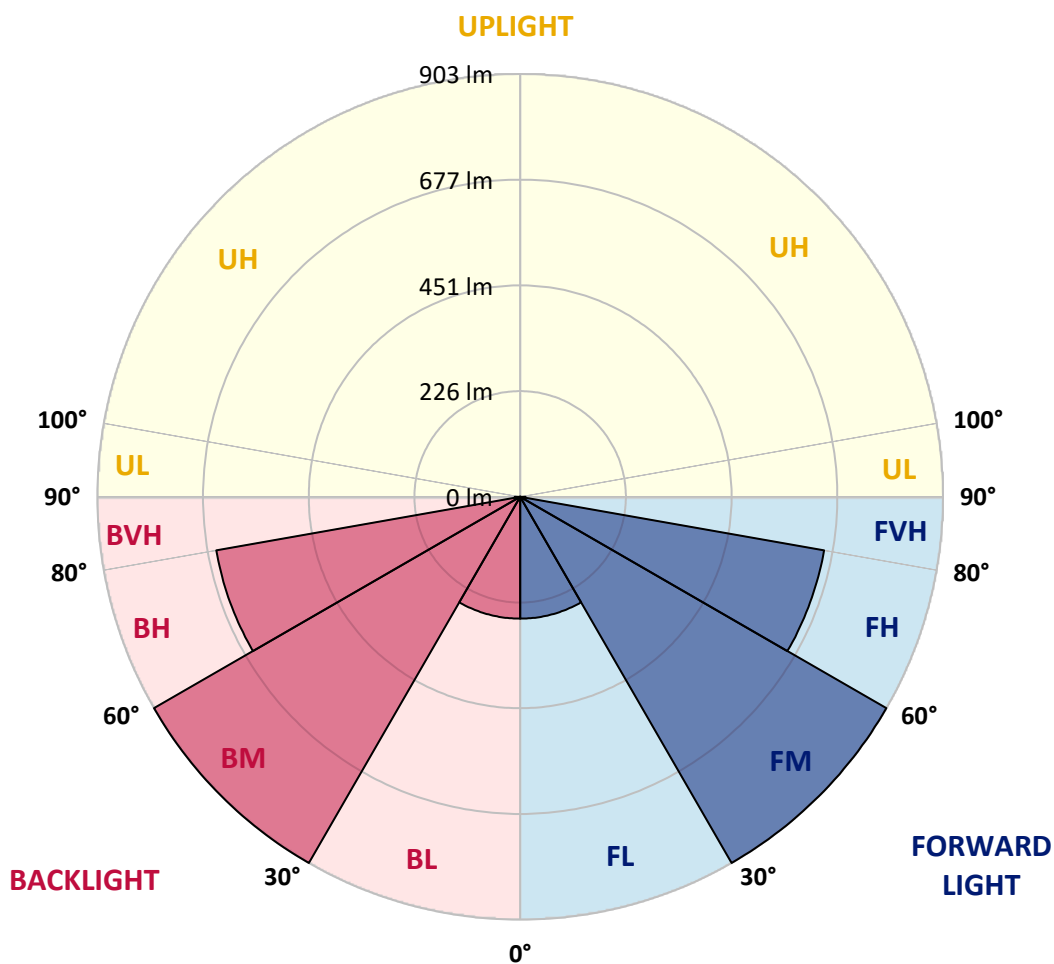
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 260.1 | 7.1 | | | |
| FM (30°-60°) | 902.9 | 24.6 | | | |
| FH (60°-80°) | 659.0 | 18.0 | | | G0/660 |
| FVH (80°-90°) | 11.5 | 0.3 | | | G1/100 |
| BL (0°-30°) | 260.1 | 7.1 | B1/500 | | |
| BM (30°-60°) | 902.9 | 24.6 | B1/1000 | | |
| BH (60°-80°) | 659.0 | 18.0 | B2/1000 | | G2/1000 |
| BVH (80°-90°) | 11.5 | 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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|-------|-------|-------|-------|-------|-------|-------|--------|--------|--------|--------|
| 0° | 609.0 | 609.0 | 609.0 | 609.0 | 609.0 | 609.0 | 609.0 | 609.0 | 609.0 | 609.0 | 609.0 |
| 2.5° | 611.0 | 611.0 | 612.0 | 611.0 | 611.0 | 611.0 | 611.0 | 610.0 | 609.0 | 608.0 | 608.0 |
| 5° | 610.0 | 610.0 | 610.0 | 611.0 | 611.0 | 612.0 | 612.0 | 611.0 | 611.0 | 611.0 | 610.0 |
| 7.5° | 606.0 | 607.0 | 607.0 | 608.0 | 609.0 | 611.0 | 612.0 | 613.0 | 614.0 | 614.0 | 614.0 |
| 10° | 601.0 | 601.0 | 602.0 | 604.0 | 607.0 | 609.0 | 614.0 | 617.0 | 619.0 | 619.9 | 619.9 |
| 12.5° | 593.0 | 593.0 | 595.0 | 599.0 | 605.0 | 611.0 | 617.0 | 622.9 | 626.9 | 628.9 | 628.9 |
| 15° | 583.1 | 583.1 | 586.1 | 592.0 | 603.0 | 614.0 | 623.9 | 632.9 | 638.9 | 641.9 | 640.9 |
| 17.5° | 568.1 | 568.1 | 572.1 | 583.1 | 600.0 | 618.0 | 634.9 | 645.9 | 654.8 | 657.8 | 657.8 |
| 20° | 548.2 | 548.2 | 555.2 | 570.1 | 594.0 | 620.9 | 644.9 | 661.8 | 674.8 | 683.7 | 685.7 |
| 22.5° | 523.3 | 523.3 | 534.2 | 555.2 | 584.1 | 619.0 | 651.8 | 680.7 | 703.7 | 713.6 | 714.6 |
| 25° | 494.4 | 496.4 | 511.3 | 538.2 | 575.1 | 618.0 | 662.8 | 702.7 | 732.6 | 748.5 | 751.5 |
| 27.5° | 467.5 | 469.4 | 488.4 | 522.3 | 566.1 | 619.0 | 672.8 | 726.6 | 769.5 | 788.4 | 791.4 |
| 30° | 442.5 | 444.5 | 464.5 | 504.3 | 559.1 | 619.9 | 684.7 | 750.5 | 807.3 | 837.2 | 843.2 |
| 32.5° | 420.6 | 422.6 | 442.5 | 485.4 | 549.2 | 620.9 | 699.7 | 782.4 | 856.2 | 901.0 | 906.0 |
| 35° | 401.7 | 403.7 | 424.6 | 465.5 | 536.2 | 622.9 | 717.6 | 820.3 | 921.0 | 993.7 | 1005.7 |
| 37.5° | 385.7 | 387.7 | 405.7 | 446.5 | 521.3 | 622.9 | 736.6 | 864.1 | 1005.7 | 1132.3 | 1154.2 |
| 40° | 373.8 | 375.8 | 389.7 | 427.6 | 503.3 | 619.0 | 753.5 | 912.0 | 1106.3 | 1305.7 | 1341.6 |
| 42.5° | 362.8 | 365.8 | 377.8 | 410.6 | 484.4 | 611.0 | 771.4 | 959.8 | 1224.9 | 1486.1 | 1528.9 |
| 45° | 351.8 | 354.8 | 367.8 | 397.7 | 464.5 | 599.0 | 782.4 | 1006.7 | 1358.5 | 1669.5 | 1706.4 |
| 47.5° | 344.9 | 344.9 | 355.8 | 383.7 | 445.5 | 578.1 | 785.4 | 1050.5 | 1496.0 | 1844.9 | 1887.8 |
| 50° | 337.9 | 337.9 | 346.9 | 370.8 | 425.6 | 551.2 | 774.4 | 1092.4 | 1639.6 | 2011.3 | 2053.2 |
| 52.5° | 328.9 | 327.9 | 336.9 | 358.8 | 406.7 | 517.3 | 748.5 | 1120.3 | 1786.1 | 2168.8 | 2215.7 |
| 55° | 317.9 | 317.9 | 324.9 | 344.9 | 388.7 | 483.4 | 701.7 | 1133.3 | 1921.6 | 2305.4 | 2355.2 |
| 57.5° | 306.0 | 305.0 | 312.0 | 327.9 | 368.8 | 450.5 | 638.9 | 1124.3 | 2032.3 | 2434.9 | 2476.8 |
| 60° | 295.0 | 294.0 | 299.0 | 313.0 | 345.9 | 418.6 | 575.1 | 1075.4 | 2121.0 | 2541.6 | 2589.4 |
| 62.5° | 281.1 | 281.1 | 285.1 | 296.0 | 323.9 | 382.7 | 511.3 | 999.7 | 2164.8 | 2613.4 | 2664.2 |
| 65° | 263.1 | 262.1 | 265.1 | 273.1 | 296.0 | 344.9 | 449.5 | 909.0 | 2165.8 | 2649.2 | 2708.0 |
| 67.5° | 230.2 | 238.2 | 241.2 | 246.2 | 265.1 | 306.0 | 390.7 | 828.3 | 2088.1 | 2642.3 | 2699.1 |
| 70° | 186.4 | 212.3 | 212.3 | 215.3 | 229.2 | 262.1 | 335.9 | 760.5 | 1915.7 | 2575.5 | 2636.3 |
| 72.5° | 129.6 | 152.5 | 171.4 | 178.4 | 190.4 | 213.3 | 283.1 | 678.8 | 1618.6 | 2423.0 | 2504.7 |
| 75° | 47.8 | 44.9 | 64.8 | 108.6 | 120.6 | 140.5 | 207.3 | 559.1 | 1308.7 | 2132.9 | 2272.5 |
| 77.5° | 14.0 | 15.0 | 20.9 | 55.8 | 63.8 | 68.8 | 112.6 | 279.1 | 606.0 | 1091.4 | 1234.9 |
| 80° | 12.0 | 12.0 | 15.0 | 17.9 | 20.9 | 33.9 | 36.9 | 103.7 | 199.3 | 261.1 | 262.1 |
| 82.5° | 9.0 | 9.0 | 11.0 | 13.0 | 15.9 | 19.9 | 21.9 | 35.9 | 50.8 | 52.8 | 52.8 |
| 85° | 6.0 | 6.0 | 7.0 | 8.0 | 10.0 | 12.0 | 13.0 | 15.0 | 18.9 | 31.9 | 33.9 |
| 87.5° | 3.0 | 3.0 | 4.0 | 4.0 | 5.0 | 5.0 | 6.0 | 9.0 | 10.0 | 15.0 | 15.0 |
| 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)