

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: P367525

Luminaire Tested: **PMM-SA2D-727-U-5WQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367525
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-SA2D-727-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (2) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12100 lumens
Efficiency: N/A
Efficacy: 93.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

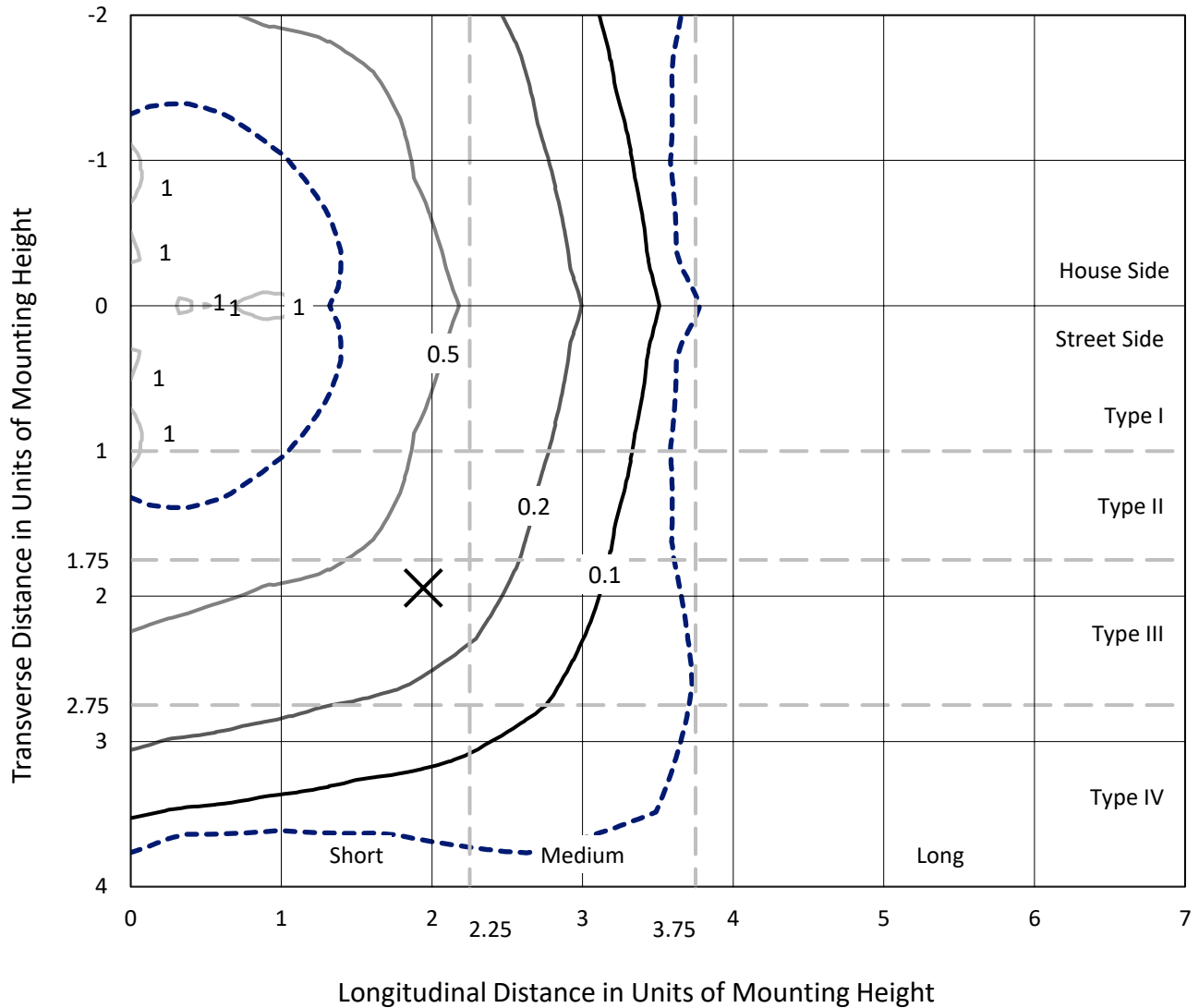
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

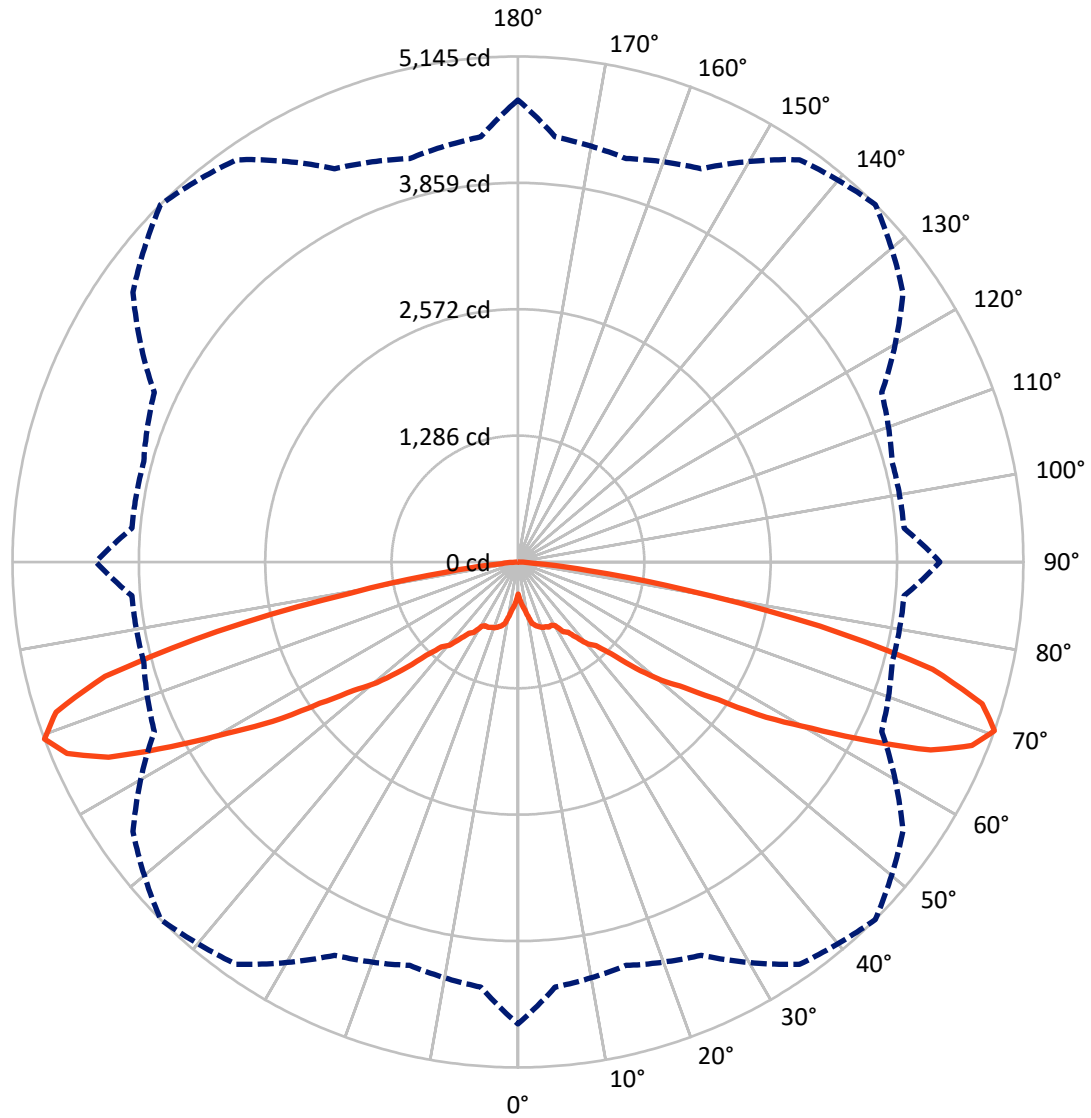
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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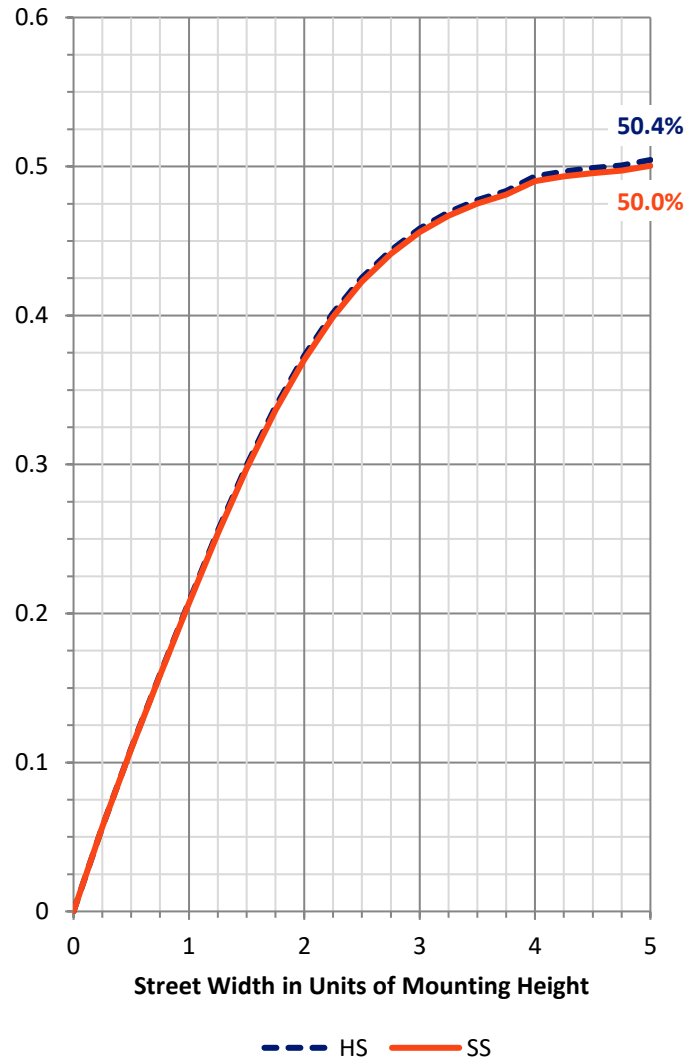
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6050.0 | 0.0 | 6050.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6050.0 | 0.0 | 6050.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12100.0 | 0.0 | 12100.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 47.6 | 0.4 |
| 10°-20° | 190.5 | 1.6 |
| 20°-30° | 360.1 | 3.0 |
| 30°-40° | 627.2 | 5.2 |
| 40°-50° | 1199.1 | 9.9 |
| 50°-60° | 2325.2 | 19.2 |
| 60°-70° | 4071.4 | 33.6 |
| 70°-80° | 3059.9 | 25.3 |
| 80°-90° | 218.9 | 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° | 12100.0 | 100.0 |
| 0°-180° | 12100.0 | 100.0 |

Coefficient of Utilization



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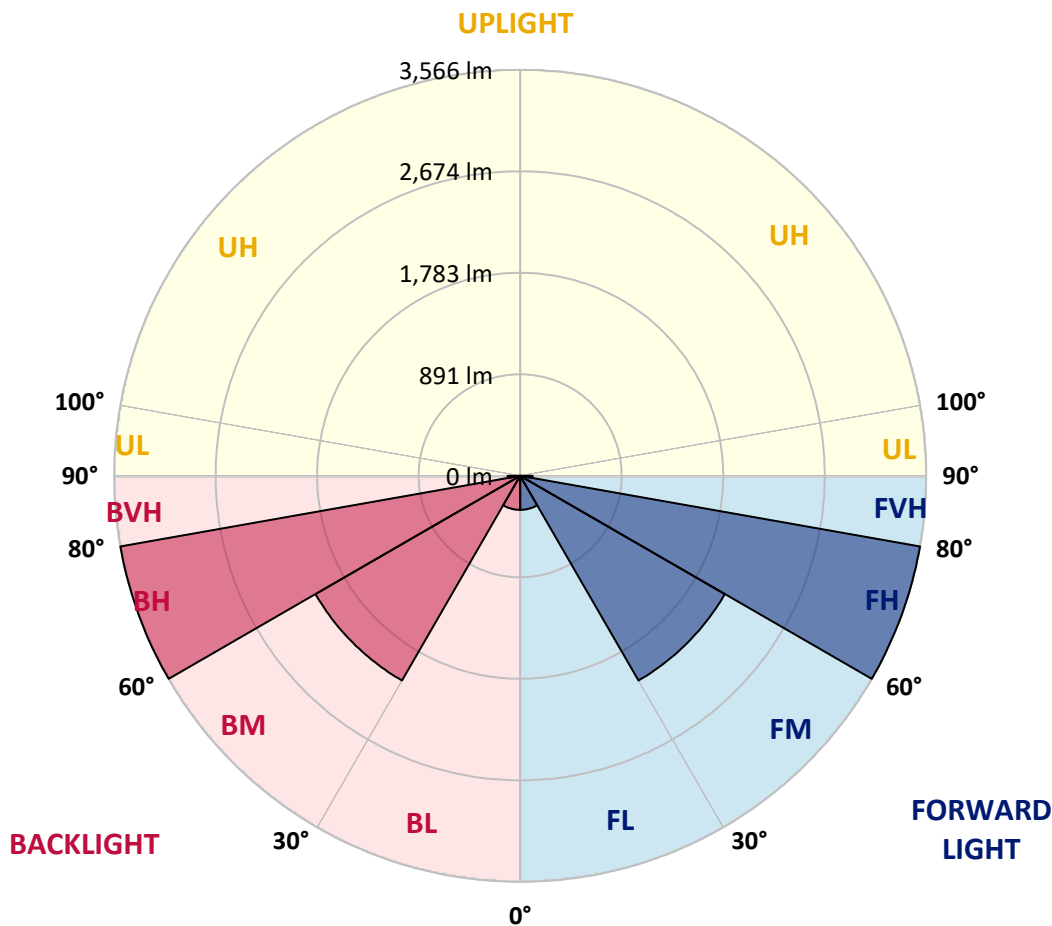
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 299.1 | 2.5 | | | |
| FM (30°-60°) | 2075.8 | 17.2 | | | |
| FH (60°-80°) | 3565.7 | 29.5 | | | G2/5000 |
| FVH (80°-90°) | 109.5 | 0.9 | | | G2/225 |
| BL (0°-30°) | 299.1 | 2.5 | B1/500 | | |
| BM (30°-60°) | 2075.8 | 17.2 | B2/2500 | | |
| BH (60°-80°) | 3565.7 | 29.5 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 109.5 | 0.9 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 327.2 | 327.2 | 327.2 | 327.2 | 327.2 | 327.2 | 327.2 | 327.2 | 327.2 | 327.2 | 327.2 |
| 2.5° | 398.1 | 392.0 | 372.7 | 373.6 | 382.6 | 383.5 | 384.4 | 372.7 | 369.9 | 393.8 | 395.2 |
| 5° | 505.5 | 491.5 | 477.4 | 471.8 | 463.3 | 439.8 | 465.6 | 468.5 | 474.1 | 492.4 | 500.9 |
| 7.5° | 577.4 | 560.0 | 540.8 | 529.0 | 506.0 | 486.8 | 507.9 | 525.3 | 536.5 | 557.2 | 568.9 |
| 10° | 591.0 | 580.7 | 579.7 | 559.1 | 554.8 | 561.9 | 560.5 | 560.9 | 577.8 | 578.3 | 585.3 |
| 12.5° | 633.7 | 641.2 | 626.7 | 619.6 | 623.8 | 641.2 | 627.1 | 621.0 | 625.2 | 644.5 | 636.5 |
| 15° | 689.6 | 698.5 | 676.4 | 665.1 | 653.9 | 670.3 | 655.8 | 666.6 | 680.2 | 694.2 | 687.2 |
| 17.5° | 751.5 | 752.0 | 721.9 | 680.2 | 690.0 | 692.4 | 687.2 | 678.3 | 717.3 | 751.0 | 747.8 |
| 20° | 785.3 | 784.8 | 733.2 | 676.4 | 705.5 | 710.7 | 706.0 | 675.5 | 734.1 | 780.6 | 779.2 |
| 22.5° | 820.1 | 809.7 | 747.8 | 701.8 | 712.6 | 716.8 | 706.0 | 703.2 | 747.8 | 812.5 | 812.1 |
| 25° | 838.8 | 847.7 | 779.7 | 751.0 | 742.1 | 732.3 | 741.7 | 746.4 | 789.1 | 852.4 | 834.1 |
| 27.5° | 897.5 | 883.0 | 789.1 | 786.3 | 767.5 | 728.5 | 760.9 | 783.9 | 786.3 | 888.6 | 907.4 |
| 30° | 950.5 | 956.2 | 831.3 | 835.5 | 801.3 | 752.0 | 802.2 | 838.8 | 845.9 | 957.1 | 955.2 |
| 32.5° | 1006.9 | 1009.2 | 906.4 | 862.8 | 848.2 | 846.3 | 827.1 | 859.0 | 914.4 | 1003.6 | 1007.3 |
| 35° | 1092.3 | 1111.6 | 973.5 | 914.9 | 896.6 | 877.8 | 894.7 | 923.3 | 975.0 | 1108.7 | 1099.3 |
| 37.5° | 1288.0 | 1257.5 | 1119.5 | 998.0 | 985.8 | 978.2 | 991.9 | 1012.5 | 1118.1 | 1260.8 | 1304.5 |
| 40° | 1424.6 | 1410.1 | 1222.3 | 1135.5 | 1058.5 | 1098.9 | 1067.0 | 1146.8 | 1234.1 | 1411.0 | 1439.2 |
| 42.5° | 1636.3 | 1571.6 | 1378.6 | 1271.1 | 1191.3 | 1162.7 | 1180.6 | 1284.8 | 1396.0 | 1593.2 | 1648.5 |
| 45° | 1839.6 | 1739.6 | 1574.4 | 1479.6 | 1358.5 | 1328.4 | 1352.4 | 1474.9 | 1603.5 | 1759.3 | 1857.0 |
| 47.5° | 2047.1 | 1943.8 | 1762.1 | 1625.1 | 1526.0 | 1615.7 | 1537.3 | 1653.7 | 1781.9 | 1963.1 | 2049.9 |
| 50° | 2262.5 | 2148.0 | 1968.7 | 1819.4 | 1811.0 | 1890.3 | 1796.4 | 1856.0 | 1974.8 | 2162.5 | 2264.9 |
| 52.5° | 2509.9 | 2386.5 | 2207.1 | 2106.2 | 2125.9 | 2120.8 | 2102.0 | 2091.2 | 2208.1 | 2392.6 | 2514.1 |
| 55° | 2804.2 | 2670.9 | 2527.7 | 2481.3 | 2535.7 | 2477.0 | 2504.7 | 2501.0 | 2517.9 | 2649.8 | 2792.0 |
| 57.5° | 3160.0 | 3009.4 | 2865.7 | 2855.4 | 2925.3 | 2980.7 | 2931.4 | 2860.6 | 2831.0 | 2959.1 | 3122.0 |
| 60° | 3608.3 | 3423.4 | 3265.6 | 3233.3 | 3432.8 | 3432.3 | 3387.7 | 3229.0 | 3217.8 | 3362.8 | 3559.0 |
| 62.5° | 4103.5 | 3878.2 | 3706.0 | 3654.3 | 3966.9 | 4002.1 | 3863.2 | 3578.7 | 3636.9 | 3753.8 | 3986.7 |
| 65° | 4524.1 | 4253.3 | 4092.7 | 4078.7 | 4460.8 | 4616.1 | 4309.1 | 3920.0 | 3938.8 | 4035.9 | 4288.0 |
| 67.5° | 4798.3 | 4472.0 | 4344.3 | 4412.4 | 4887.4 | 4984.6 | 4699.2 | 4148.1 | 4081.5 | 4121.8 | 4423.2 |
| 70° | 4702.0 | 4343.4 | 4251.4 | 4416.6 | 4997.8 | 5144.7 | 4783.2 | 4084.3 | 3942.5 | 3944.4 | 4294.6 |
| 72.5° | 3973.0 | 3631.8 | 3675.4 | 3978.7 | 4736.8 | 4942.8 | 4394.6 | 3689.1 | 3399.0 | 3391.9 | 3709.7 |
| 75° | 2627.3 | 2399.1 | 2571.4 | 3044.1 | 3937.8 | 4359.4 | 3641.2 | 2891.5 | 2527.7 | 2409.5 | 2655.0 |
| 77.5° | 1149.1 | 1120.0 | 1265.0 | 1799.2 | 2684.5 | 3141.7 | 2608.5 | 1888.9 | 1374.9 | 1143.5 | 1249.1 |
| 80° | 307.9 | 301.4 | 378.3 | 682.5 | 1306.8 | 1730.2 | 1411.5 | 753.4 | 393.4 | 286.3 | 303.7 |
| 82.5° | 112.2 | 115.0 | 140.4 | 191.0 | 430.4 | 728.5 | 468.9 | 220.2 | 148.8 | 122.0 | 122.0 |
| 85° | 48.8 | 47.4 | 68.1 | 76.5 | 117.4 | 164.8 | 134.7 | 93.4 | 75.1 | 56.3 | 54.0 |
| 87.5° | 13.1 | 16.4 | 23.0 | 23.9 | 30.5 | 24.9 | 35.7 | 32.9 | 28.2 | 19.7 | 16.0 |
| 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)