

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: P598039

Luminaire Tested: **PMM-SA2D-827-U-5WQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598039
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-SA2D-827-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: 10636 lumens
Efficiency: N/A
Efficacy: 82.4 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

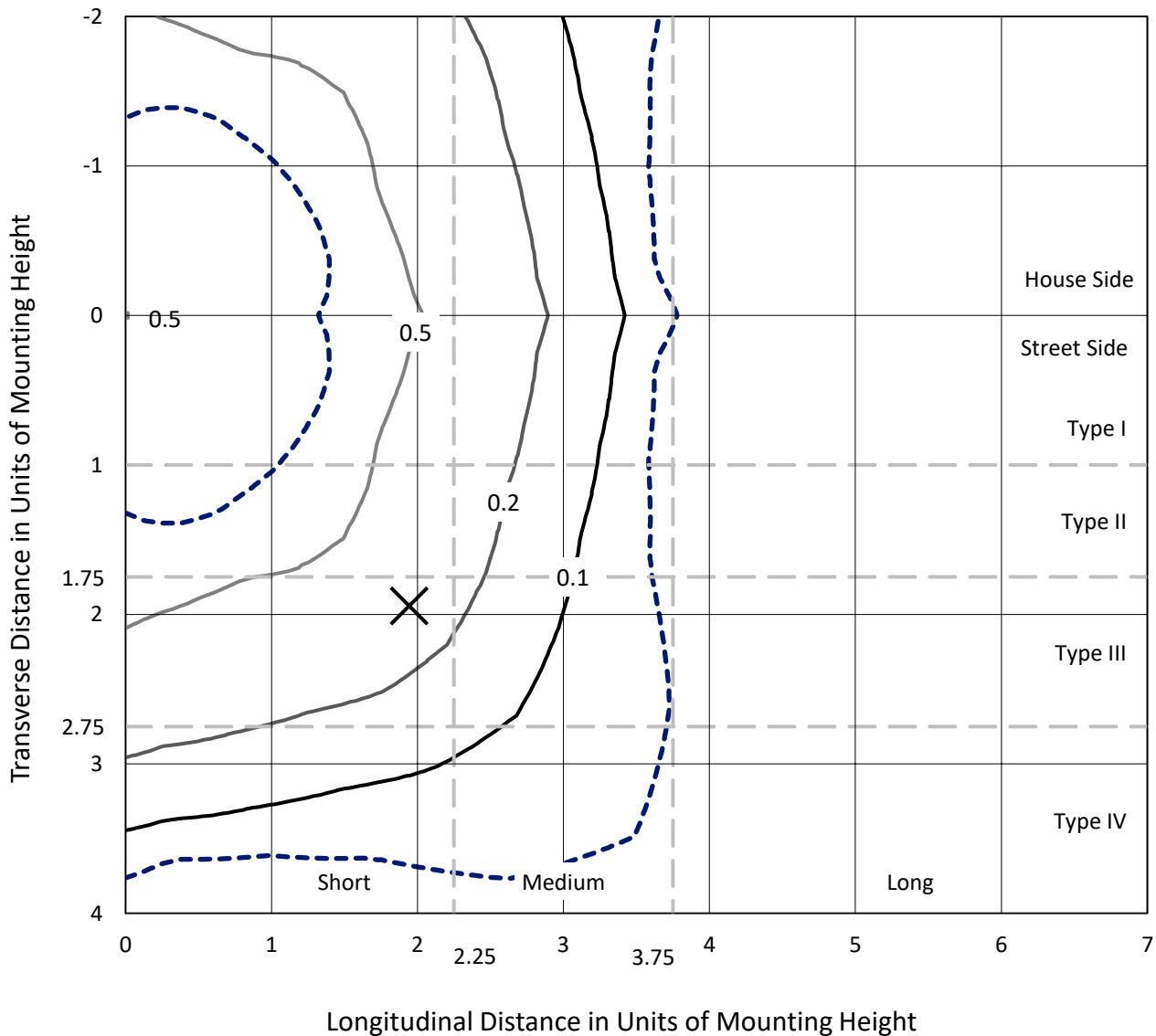


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Iso-Footcandle Lines of Horizontal Illumination

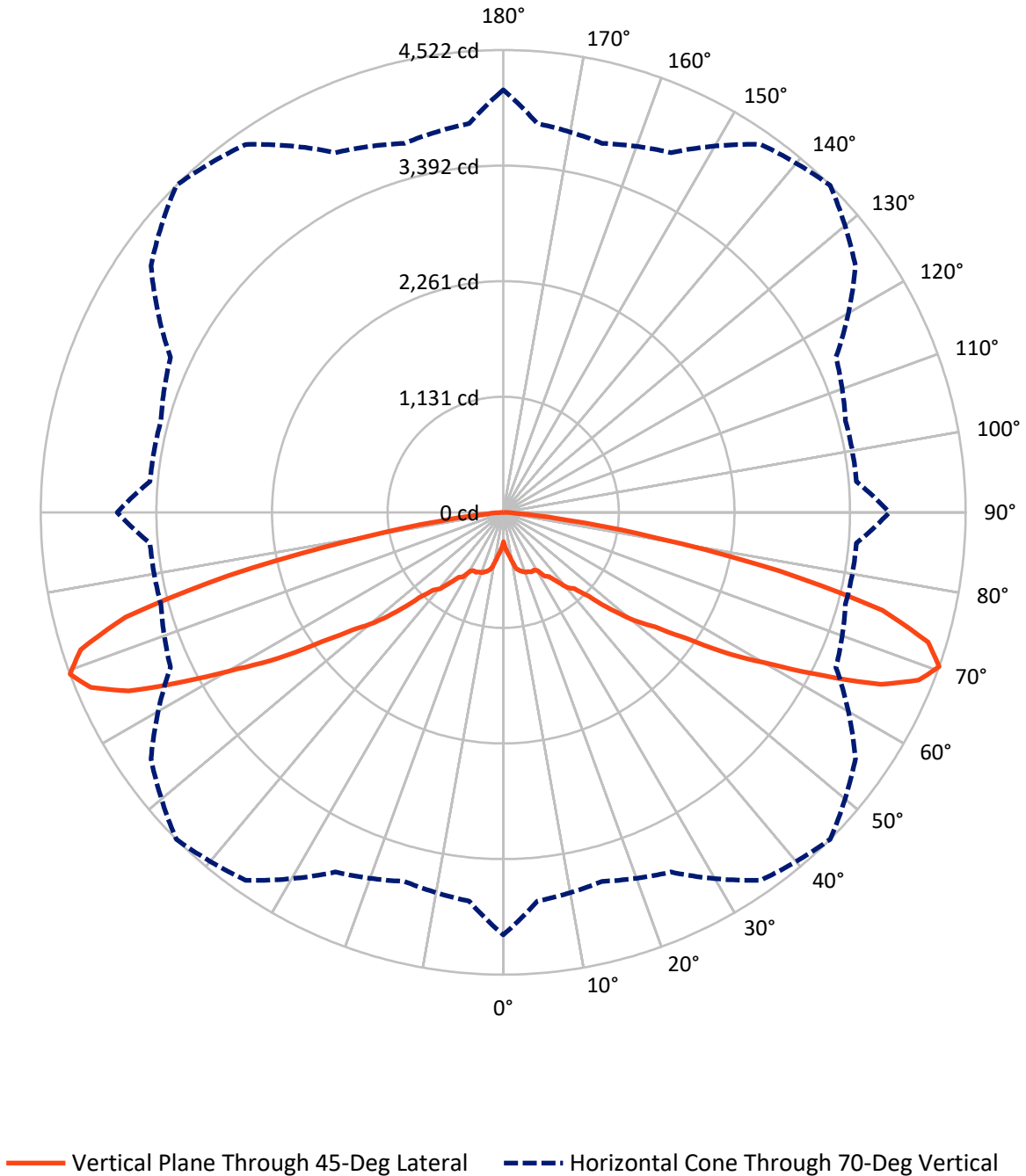
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 0.9 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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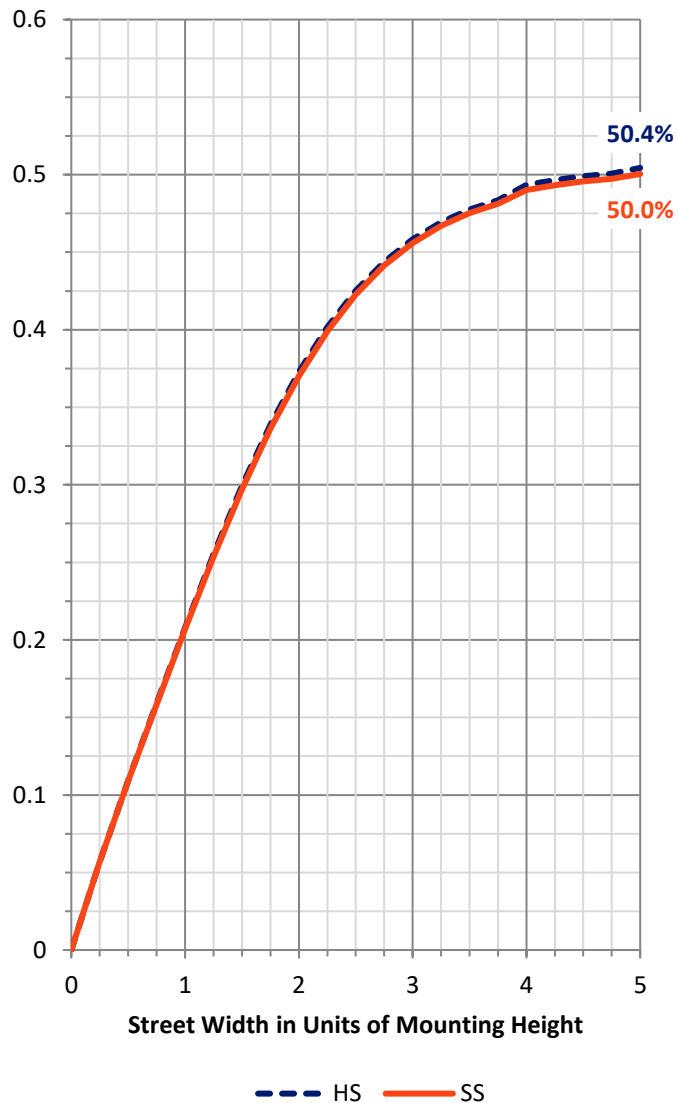
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 5318.0 | 0.0 | 5318.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 5318.0 | 0.0 | 5318.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 10636.0 | 0.0 | 10636.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 41.8 | 0.4 |
| 10°-20° | 167.4 | 1.6 |
| 20°-30° | 316.5 | 3.0 |
| 30°-40° | 551.4 | 5.2 |
| 40°-50° | 1054.0 | 9.9 |
| 50°-60° | 2043.8 | 19.2 |
| 60°-70° | 3578.8 | 33.6 |
| 70°-80° | 2689.7 | 25.3 |
| 80°-90° | 192.5 | 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° | 10636.0 | 100.0 |
| 0°-180° | 10636.0 | 100.0 |

Coefficient of Utilization



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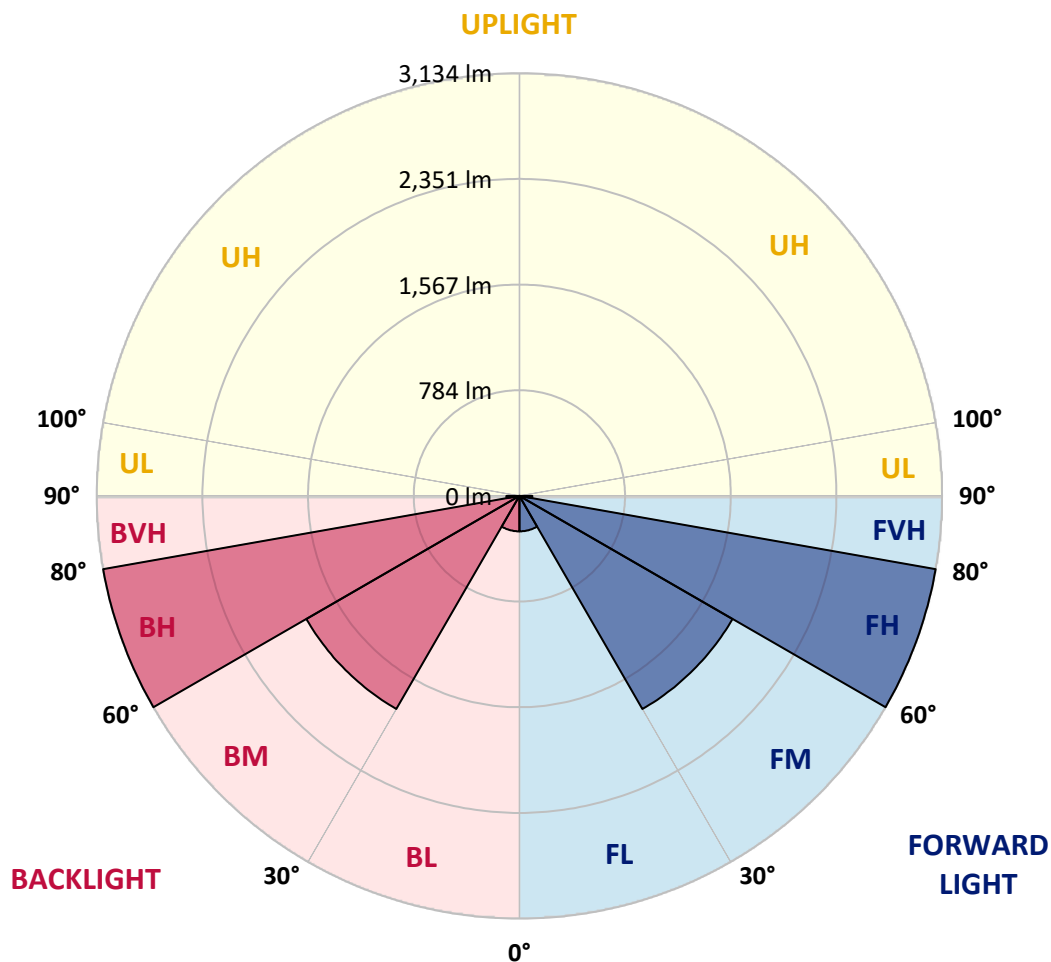
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 262.9 | 2.5 | | | |
| FM (30°-60°) | 1824.6 | 17.2 | | | |
| FH (60°-80°) | 3134.3 | 29.5 | | | G2/5000 |
| FVH (80°-90°) | 96.2 | 0.9 | | | G1/100 |
| BL (0°-30°) | 262.9 | 2.5 | B1/500 | | |
| BM (30°-60°) | 1824.6 | 17.2 | B2/2500 | | |
| BH (60°-80°) | 3134.3 | 29.5 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 96.2 | 0.9 | | | G1/100 |
| 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° | 287.6 | 287.6 | 287.6 | 287.6 | 287.6 | 287.6 | 287.6 | 287.6 | 287.6 | 287.6 | 287.6 |
| 2.5° | 349.9 | 344.5 | 327.6 | 328.4 | 336.3 | 337.1 | 337.9 | 327.6 | 325.1 | 346.2 | 347.4 |
| 5° | 444.4 | 432.0 | 419.6 | 414.7 | 407.2 | 386.6 | 409.3 | 411.8 | 416.7 | 432.8 | 440.3 |
| 7.5° | 507.5 | 492.2 | 475.3 | 465.0 | 444.8 | 427.9 | 446.4 | 461.7 | 471.6 | 489.8 | 500.1 |
| 10° | 519.5 | 510.4 | 509.6 | 491.4 | 487.7 | 493.9 | 492.7 | 493.1 | 507.9 | 508.3 | 514.5 |
| 12.5° | 557.0 | 563.6 | 550.8 | 544.6 | 548.4 | 563.6 | 551.2 | 545.9 | 549.6 | 566.5 | 559.5 |
| 15° | 606.1 | 614.0 | 594.6 | 584.7 | 574.8 | 589.2 | 576.4 | 585.9 | 597.9 | 610.3 | 604.1 |
| 17.5° | 660.6 | 661.0 | 634.6 | 597.9 | 606.5 | 608.6 | 604.1 | 596.2 | 630.5 | 660.2 | 657.3 |
| 20° | 690.3 | 689.9 | 644.5 | 594.6 | 620.2 | 624.7 | 620.6 | 593.7 | 645.3 | 686.2 | 684.9 |
| 22.5° | 720.8 | 711.8 | 657.3 | 616.9 | 626.3 | 630.1 | 620.6 | 618.1 | 657.3 | 714.2 | 713.8 |
| 25° | 737.3 | 745.2 | 685.3 | 660.2 | 652.3 | 643.7 | 651.9 | 656.1 | 693.6 | 749.3 | 733.2 |
| 27.5° | 788.9 | 776.1 | 693.6 | 691.1 | 674.6 | 640.4 | 668.8 | 689.1 | 691.1 | 781.1 | 797.6 |
| 30° | 835.5 | 840.5 | 730.7 | 734.4 | 704.3 | 661.0 | 705.2 | 737.3 | 743.5 | 841.3 | 839.7 |
| 32.5° | 885.1 | 887.1 | 796.8 | 758.4 | 745.6 | 743.9 | 727.0 | 755.1 | 803.8 | 882.2 | 885.5 |
| 35° | 960.1 | 977.1 | 855.8 | 804.2 | 788.1 | 771.6 | 786.4 | 811.6 | 857.0 | 974.6 | 966.3 |
| 37.5° | 1132.2 | 1105.4 | 984.1 | 877.2 | 866.5 | 859.9 | 871.8 | 890.0 | 982.8 | 1108.3 | 1146.6 |
| 40° | 1252.3 | 1239.5 | 1074.4 | 998.1 | 930.4 | 965.9 | 937.9 | 1008.0 | 1084.8 | 1240.3 | 1265.1 |
| 42.5° | 1438.4 | 1381.4 | 1211.8 | 1117.3 | 1047.2 | 1022.0 | 1037.7 | 1129.3 | 1227.1 | 1400.4 | 1449.1 |
| 45° | 1617.0 | 1529.1 | 1383.9 | 1300.5 | 1194.1 | 1167.7 | 1188.7 | 1296.4 | 1409.5 | 1546.5 | 1632.3 |
| 47.5° | 1799.4 | 1708.6 | 1548.9 | 1428.5 | 1341.4 | 1420.2 | 1351.3 | 1453.6 | 1566.3 | 1725.5 | 1801.9 |
| 50° | 1988.8 | 1888.1 | 1730.5 | 1599.3 | 1591.9 | 1661.6 | 1579.1 | 1631.5 | 1735.9 | 1900.9 | 1990.8 |
| 52.5° | 2206.2 | 2097.7 | 1940.1 | 1851.4 | 1868.7 | 1864.2 | 1847.7 | 1838.2 | 1940.9 | 2103.1 | 2209.9 |
| 55° | 2464.9 | 2347.8 | 2221.9 | 2181.1 | 2228.9 | 2177.3 | 2201.7 | 2198.4 | 2213.2 | 2329.2 | 2454.2 |
| 57.5° | 2777.7 | 2645.2 | 2519.0 | 2509.9 | 2571.4 | 2620.1 | 2576.8 | 2514.5 | 2488.5 | 2601.1 | 2744.3 |
| 60° | 3171.7 | 3009.2 | 2870.5 | 2842.1 | 3017.4 | 3017.0 | 2977.8 | 2838.3 | 2828.4 | 2955.9 | 3128.4 |
| 62.5° | 3607.0 | 3409.0 | 3257.6 | 3212.2 | 3487.0 | 3517.9 | 3395.8 | 3145.7 | 3196.9 | 3299.6 | 3504.3 |
| 65° | 3976.7 | 3738.7 | 3597.6 | 3585.2 | 3921.0 | 4057.6 | 3787.8 | 3445.7 | 3462.2 | 3547.6 | 3769.2 |
| 67.5° | 4217.7 | 3930.9 | 3818.7 | 3878.5 | 4296.1 | 4381.5 | 4130.6 | 3646.2 | 3587.7 | 3623.1 | 3888.0 |
| 70° | 4133.1 | 3817.9 | 3737.0 | 3882.3 | 4393.1 | 4522.2 | 4204.5 | 3590.1 | 3465.5 | 3467.2 | 3775.0 |
| 72.5° | 3492.3 | 3192.4 | 3230.7 | 3497.3 | 4163.7 | 4344.8 | 3862.9 | 3242.7 | 2987.7 | 2981.5 | 3260.9 |
| 75° | 2309.4 | 2108.9 | 2260.3 | 2675.8 | 3461.4 | 3831.9 | 3200.6 | 2541.7 | 2221.9 | 2117.9 | 2333.7 |
| 77.5° | 1010.1 | 984.5 | 1112.0 | 1581.5 | 2359.7 | 2761.6 | 2292.9 | 1660.3 | 1208.5 | 1005.1 | 1098.0 |
| 80° | 270.7 | 264.9 | 332.6 | 599.9 | 1148.7 | 1520.9 | 1240.7 | 662.2 | 345.8 | 251.7 | 267.0 |
| 82.5° | 98.6 | 101.1 | 123.4 | 167.9 | 378.4 | 640.4 | 412.2 | 193.5 | 130.8 | 107.3 | 107.3 |
| 85° | 42.9 | 41.7 | 59.8 | 67.3 | 103.2 | 144.8 | 118.4 | 82.1 | 66.0 | 49.5 | 47.5 |
| 87.5° | 11.6 | 14.4 | 20.2 | 21.0 | 26.8 | 21.9 | 31.4 | 28.9 | 24.8 | 17.3 | 14.0 |
| 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)