

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: P598567

Luminaire Tested: **PMM-SA4D-835-U-5WQ**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P598567
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-SA4D-835-U-5WQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23266 lumens
Efficiency: N/A
Efficacy: 89.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

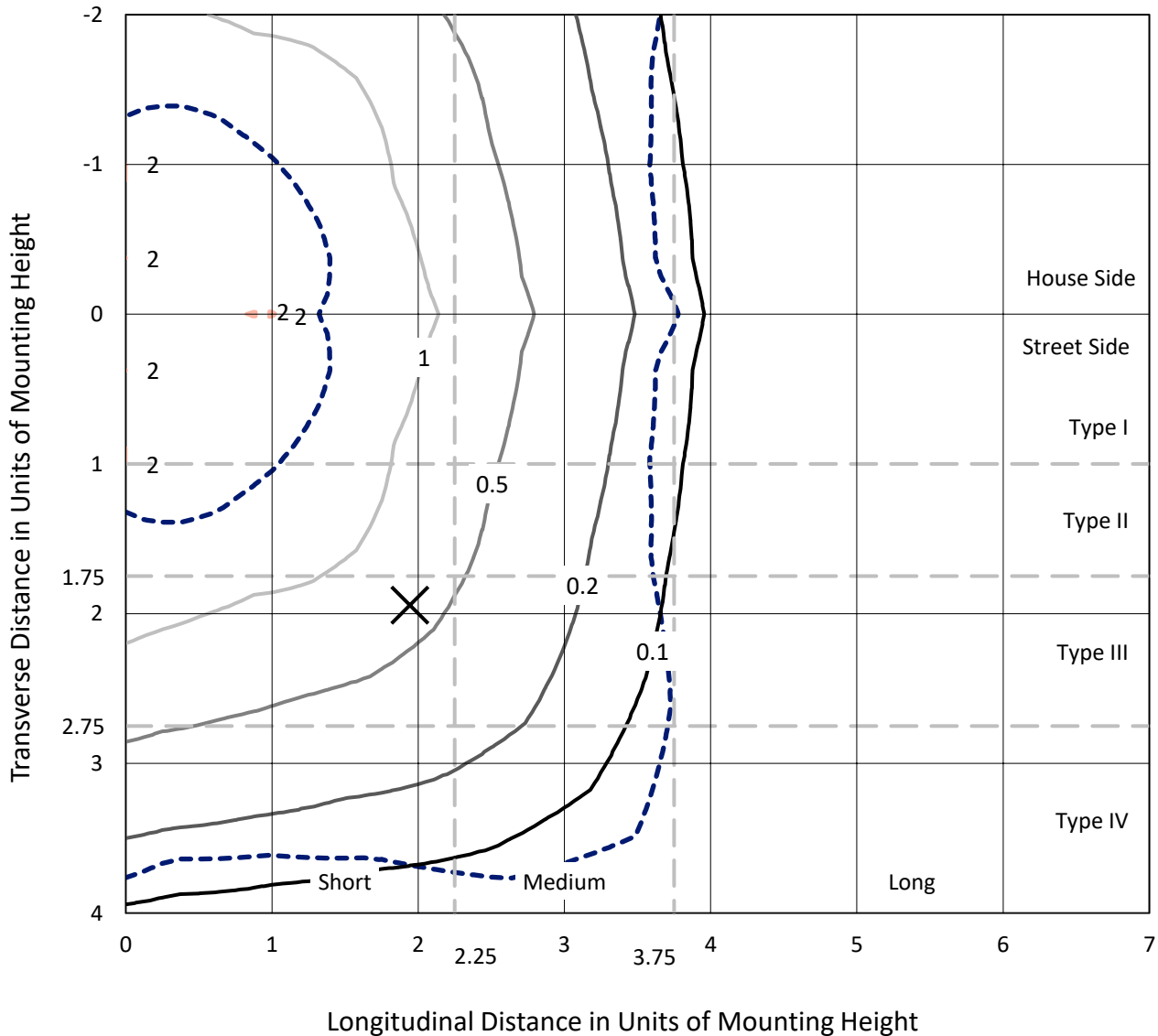
Input Watts (W): 259
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

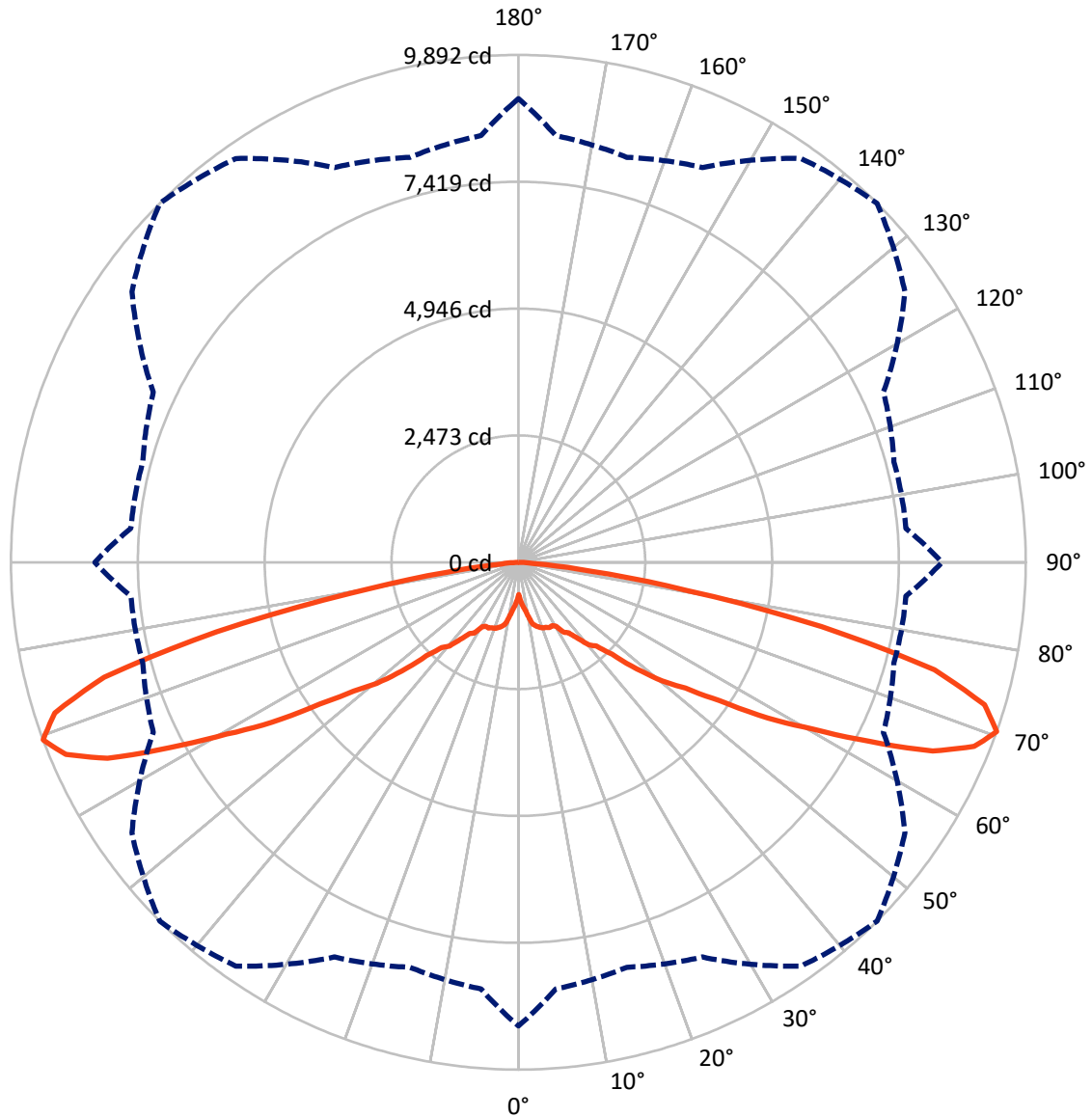
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2 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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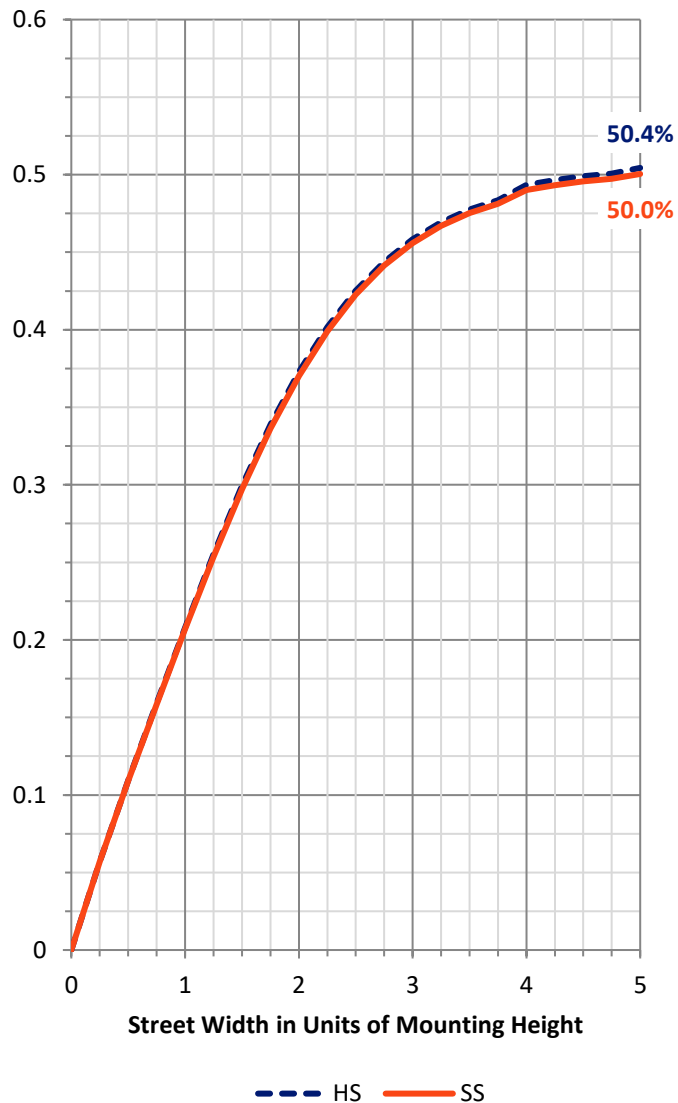
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11633.0 | 0.0 | 11633.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11633.0 | 0.0 | 11633.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 23266.0 | 0.0 | 23266.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 91.5 | 0.4 |
| 10°-20° | 366.2 | 1.6 |
| 20°-30° | 692.4 | 3.0 |
| 30°-40° | 1206.1 | 5.2 |
| 40°-50° | 2305.7 | 9.9 |
| 50°-60° | 4470.8 | 19.2 |
| 60°-70° | 7828.6 | 33.6 |
| 70°-80° | 5883.6 | 25.3 |
| 80°-90° | 421.0 | 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° | 23266.0 | 100.0 |
| 0°-180° | 23266.0 | 100.0 |

Coefficient of Utilization



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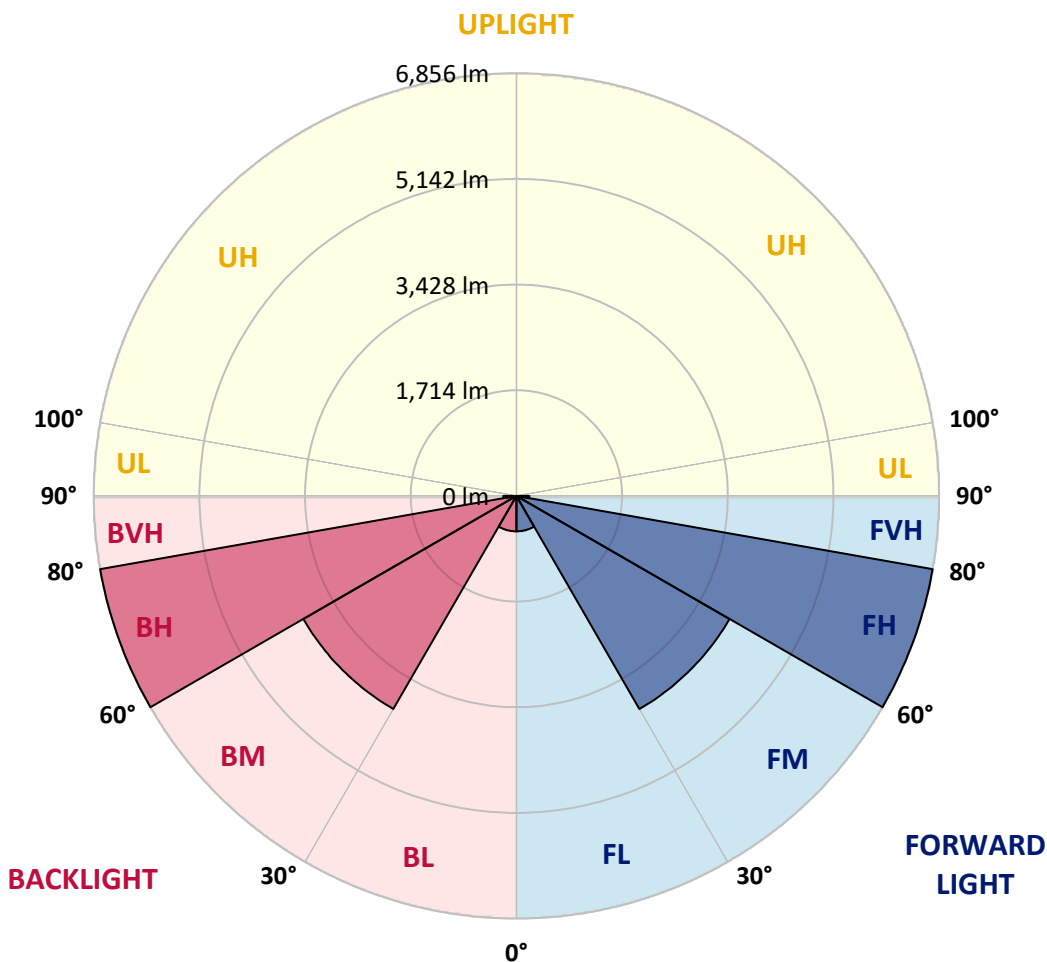
CATALOG NUMBER: PMM-SA4D-835-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 575.1 | 2.5 | | | |
| FM (30°-60°) | 3991.3 | 17.2 | | | |
| FH (60°-80°) | 6856.1 | 29.5 | | | G3/7500 |
| FVH (80°-90°) | 210.5 | 0.9 | | | G2/225 |
| BL (0°-30°) | 575.1 | 2.5 | B2/1000 | | |
| BM (30°-60°) | 3991.3 | 17.2 | B3/5000 | | |
| BH (60°-80°) | 6856.1 | 29.5 | B5 | | G3/7500 |
| BVH (80°-90°) | 210.5 | 0.9 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 629.1 | 629.1 | 629.1 | 629.1 | 629.1 | 629.1 | 629.1 | 629.1 | 629.1 | 629.1 | 629.1 |
| 2.5° | 765.4 | 753.7 | 716.6 | 718.5 | 735.6 | 737.4 | 739.2 | 716.6 | 711.2 | 757.3 | 760.0 |
| 5° | 972.1 | 945.0 | 917.9 | 907.1 | 890.8 | 845.7 | 895.4 | 900.8 | 911.6 | 946.8 | 963.0 |
| 7.5° | 1110.2 | 1076.8 | 1039.8 | 1017.2 | 973.0 | 936.0 | 976.6 | 1010.0 | 1031.6 | 1071.4 | 1093.9 |
| 10° | 1136.3 | 1116.5 | 1114.7 | 1075.0 | 1066.8 | 1080.4 | 1077.7 | 1078.6 | 1111.1 | 1112.0 | 1125.5 |
| 12.5° | 1218.5 | 1232.9 | 1204.9 | 1191.4 | 1199.5 | 1232.9 | 1205.8 | 1194.1 | 1202.2 | 1239.2 | 1223.9 |
| 15° | 1325.9 | 1343.0 | 1300.6 | 1279.0 | 1257.3 | 1288.9 | 1260.9 | 1281.7 | 1307.8 | 1334.9 | 1321.4 |
| 17.5° | 1445.0 | 1445.9 | 1388.2 | 1307.8 | 1326.8 | 1331.3 | 1321.4 | 1304.2 | 1379.1 | 1444.1 | 1437.8 |
| 20° | 1510.0 | 1509.1 | 1409.8 | 1300.6 | 1356.6 | 1366.5 | 1357.5 | 1298.8 | 1411.6 | 1501.0 | 1498.3 |
| 22.5° | 1576.8 | 1556.9 | 1437.8 | 1349.4 | 1370.1 | 1378.2 | 1357.5 | 1352.1 | 1437.8 | 1562.4 | 1561.5 |
| 25° | 1612.9 | 1630.1 | 1499.2 | 1444.1 | 1427.0 | 1408.0 | 1426.1 | 1435.1 | 1517.2 | 1639.1 | 1603.9 |
| 27.5° | 1725.7 | 1697.7 | 1517.2 | 1511.8 | 1475.7 | 1400.8 | 1463.1 | 1507.3 | 1511.8 | 1708.6 | 1744.7 |
| 30° | 1827.7 | 1838.5 | 1598.5 | 1606.6 | 1540.7 | 1445.9 | 1542.5 | 1612.9 | 1626.4 | 1840.4 | 1836.7 |
| 32.5° | 1936.0 | 1940.5 | 1742.9 | 1658.9 | 1631.0 | 1627.3 | 1590.3 | 1651.7 | 1758.2 | 1929.7 | 1936.9 |
| 35° | 2100.3 | 2137.3 | 1871.9 | 1759.1 | 1723.9 | 1687.8 | 1720.3 | 1775.4 | 1874.7 | 2131.9 | 2113.8 |
| 37.5° | 2476.7 | 2418.0 | 2152.6 | 1918.9 | 1895.4 | 1881.0 | 1907.1 | 1946.9 | 2149.9 | 2424.3 | 2508.3 |
| 40° | 2739.3 | 2711.3 | 2350.3 | 2183.3 | 2035.3 | 2112.9 | 2051.6 | 2205.0 | 2372.9 | 2713.1 | 2767.3 |
| 42.5° | 3146.4 | 3021.8 | 2650.9 | 2444.2 | 2290.7 | 2235.7 | 2270.0 | 2470.4 | 2684.3 | 3063.3 | 3169.8 |
| 45° | 3537.2 | 3344.9 | 3027.2 | 2844.9 | 2612.1 | 2554.3 | 2600.3 | 2835.9 | 3083.2 | 3382.9 | 3570.6 |
| 47.5° | 3936.1 | 3737.6 | 3388.3 | 3124.7 | 2934.3 | 3106.7 | 2955.9 | 3179.8 | 3426.2 | 3774.6 | 3941.6 |
| 50° | 4350.4 | 4130.2 | 3785.4 | 3498.4 | 3482.1 | 3634.7 | 3454.2 | 3568.8 | 3797.1 | 4158.2 | 4354.9 |
| 52.5° | 4826.1 | 4588.7 | 4243.9 | 4049.9 | 4087.8 | 4077.8 | 4041.7 | 4021.0 | 4245.7 | 4600.4 | 4834.2 |
| 55° | 5392.0 | 5135.7 | 4860.4 | 4771.0 | 4875.7 | 4762.9 | 4816.1 | 4808.9 | 4841.4 | 5095.0 | 5368.5 |
| 57.5° | 6076.1 | 5786.4 | 5510.2 | 5490.4 | 5624.9 | 5731.4 | 5636.6 | 5500.3 | 5443.4 | 5689.8 | 6003.0 |
| 60° | 6938.1 | 6582.5 | 6279.2 | 6216.9 | 6600.5 | 6599.6 | 6513.9 | 6208.8 | 6187.2 | 6466.1 | 6843.3 |
| 62.5° | 7890.3 | 7457.1 | 7125.8 | 7026.6 | 7627.7 | 7695.4 | 7428.2 | 6881.2 | 6993.2 | 7217.9 | 7665.6 |
| 65° | 8699.0 | 8178.2 | 7869.6 | 7842.5 | 8577.2 | 8875.9 | 8285.7 | 7537.4 | 7573.5 | 7760.4 | 8245.0 |
| 67.5° | 9226.1 | 8598.8 | 8353.3 | 8484.2 | 9397.6 | 9584.5 | 9035.7 | 7976.1 | 7847.9 | 7925.5 | 8505.0 |
| 70° | 9041.1 | 8351.5 | 8174.6 | 8492.3 | 9609.7 | 9892.2 | 9197.3 | 7853.3 | 7580.7 | 7584.3 | 8257.7 |
| 72.5° | 7639.4 | 6983.2 | 7067.2 | 7650.2 | 9107.9 | 9504.1 | 8449.9 | 7093.3 | 6535.6 | 6522.0 | 7133.1 |
| 75° | 5051.7 | 4613.1 | 4944.3 | 5853.2 | 7571.7 | 8382.2 | 7001.3 | 5559.9 | 4860.4 | 4632.9 | 5105.0 |
| 77.5° | 2209.5 | 2153.5 | 2432.4 | 3459.6 | 5161.8 | 6040.9 | 5015.6 | 3632.0 | 2643.6 | 2198.7 | 2401.8 |
| 80° | 592.1 | 579.5 | 727.5 | 1312.3 | 2512.8 | 3326.9 | 2714.0 | 1448.6 | 756.4 | 550.6 | 584.0 |
| 82.5° | 215.7 | 221.1 | 269.9 | 367.3 | 827.7 | 1400.8 | 901.7 | 423.3 | 286.1 | 234.7 | 234.7 |
| 85° | 93.9 | 91.2 | 130.9 | 147.1 | 225.6 | 316.8 | 259.0 | 179.6 | 144.4 | 108.3 | 103.8 |
| 87.5° | 25.3 | 31.6 | 44.2 | 46.0 | 58.7 | 47.8 | 68.6 | 63.2 | 54.2 | 37.9 | 30.7 |
| 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)