

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: P368206

Luminaire Tested: **PMM-SA4A-730-U-5NQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P368206
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1910-543-5)
Test Lab: INNOVATION CENTER
Issue Date: 12/2/2019
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: PMM-SA4A-730-U-5NQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (4) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14448 lumens
Efficiency: N/A
Efficacy: 112.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

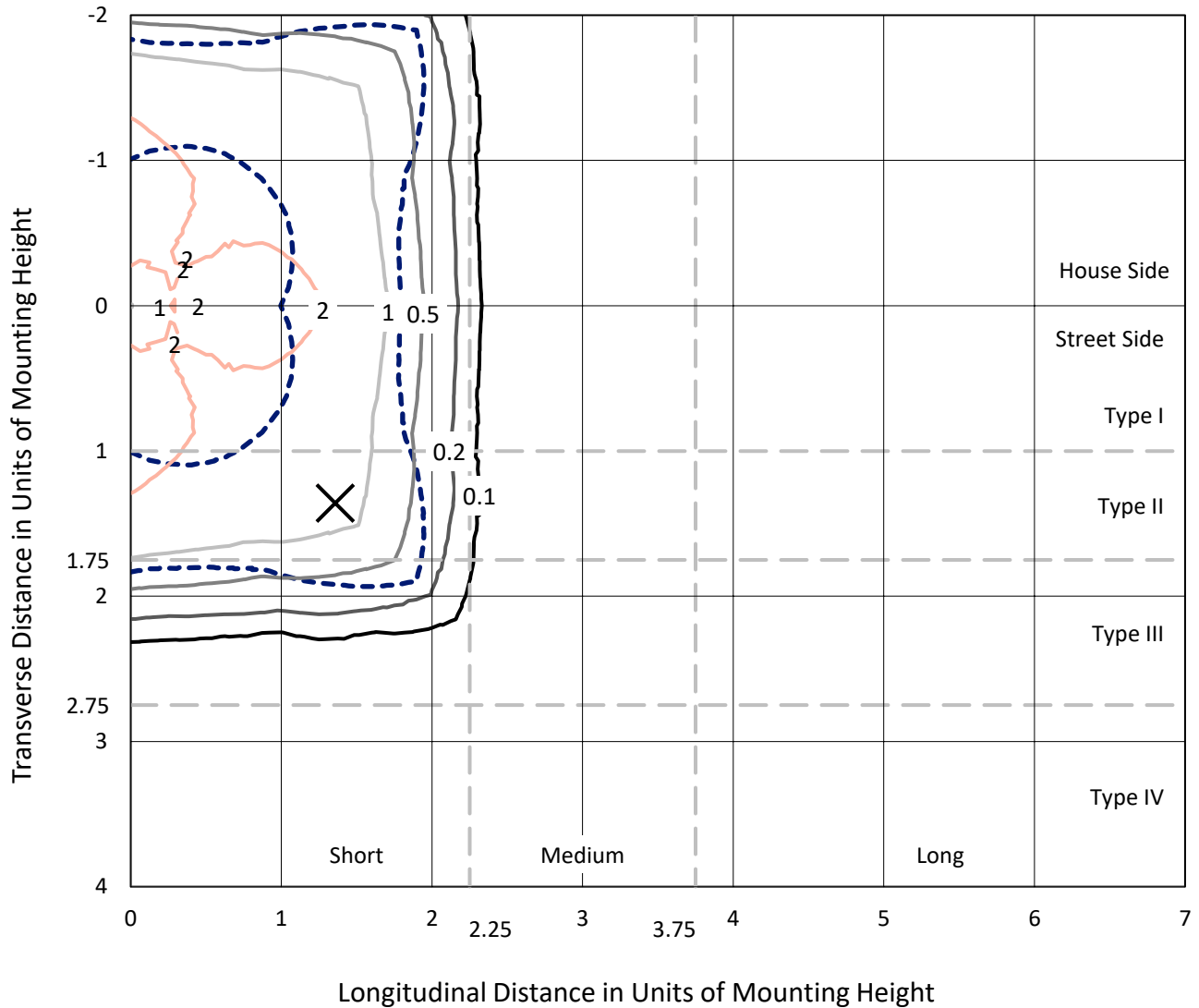
Input Watts (W): 129
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

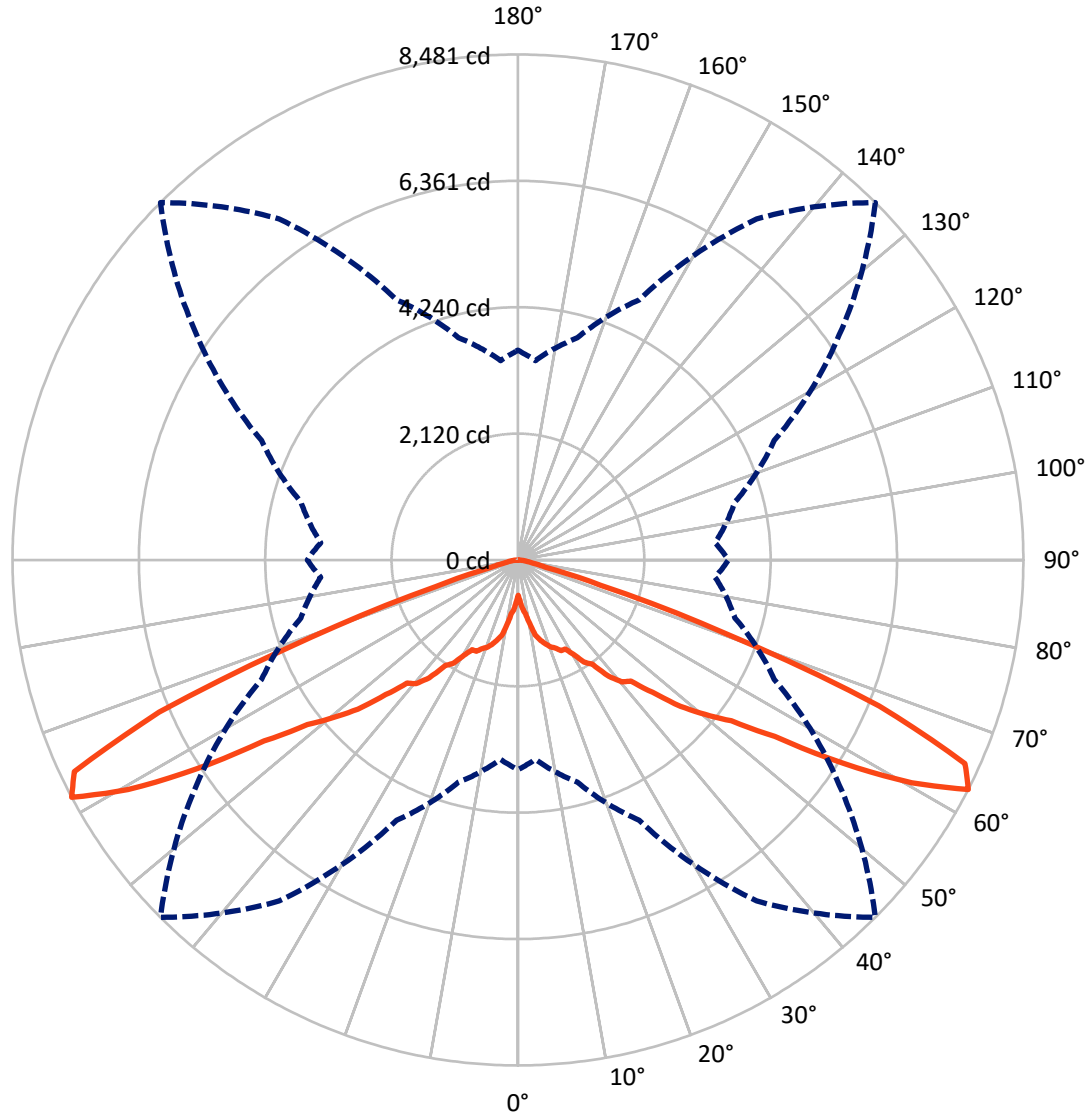
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.5 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 62.5-Deg Vertical

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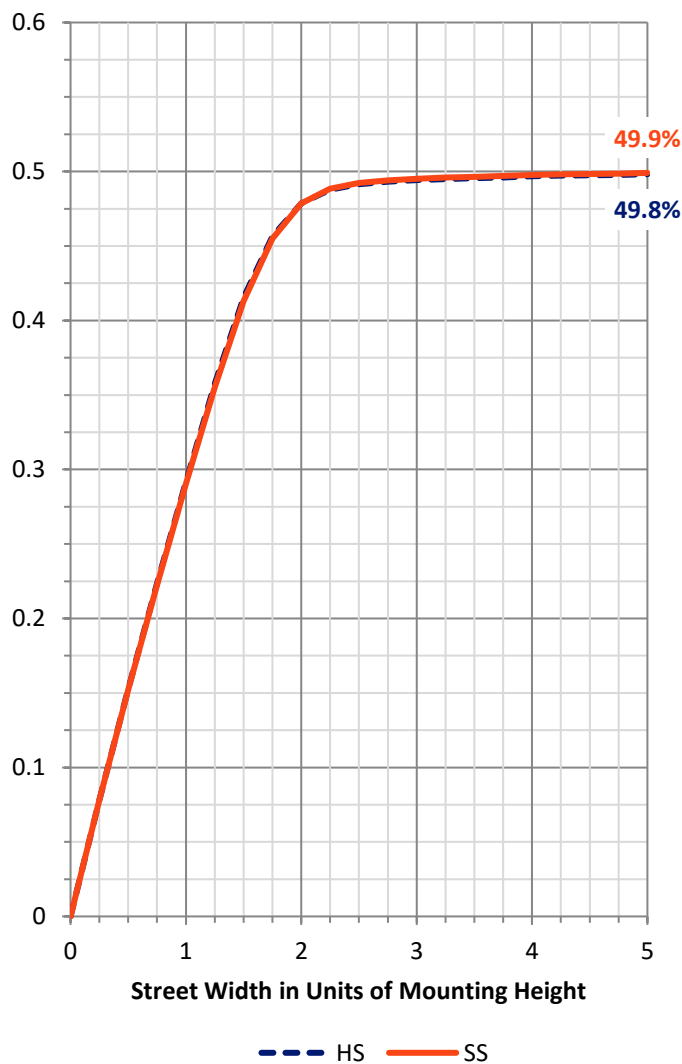
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7224.0 | 0.0 | 7224.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7224.0 | 0.0 | 7224.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14448.0 | 0.0 | 14448.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 89.0 | 0.6 |
| 10°-20° | 392.6 | 2.7 |
| 20°-30° | 822.8 | 5.7 |
| 30°-40° | 1550.3 | 10.7 |
| 40°-50° | 2813.7 | 19.5 |
| 50°-60° | 4754.1 | 32.9 |
| 60°-70° | 3554.0 | 24.6 |
| 70°-80° | 397.6 | 2.8 |
| 80°-90° | 74.0 | 0.5 |
| 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° | 14448.0 | 100.0 |
| 0°-180° | 14448.0 | 100.0 |

Coefficient of Utilization



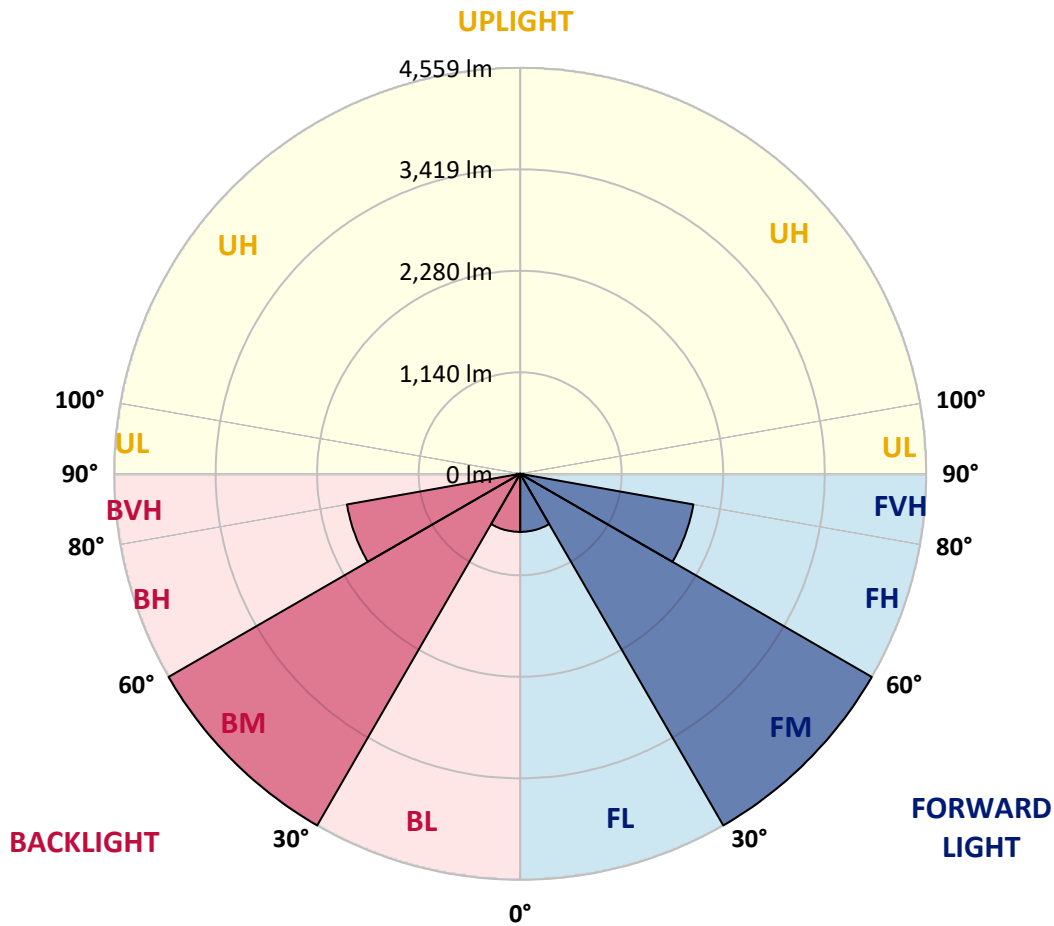
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 652.2 | 4.5 | | | |
| FM (30°-60°) | 4559.0 | 31.6 | | | |
| FH (60°-80°) | 1975.8 | 13.7 | | | G2/5000 |
| FVH (80°-90°) | 37.0 | 0.3 | | | G1/100 |
| BL (0°-30°) | 652.2 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 4559.0 | 31.6 | B3/5000 | | |
| BH (60°-80°) | 1975.8 | 13.7 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 37.0 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 | 590.7 |
| 2.5° | 718.3 | 705.4 | 660.1 | 676.0 | 692.4 | 690.1 | 686.0 | 673.6 | 662.5 | 708.9 | 718.3 |
| 5° | 915.8 | 886.4 | 870.5 | 857.6 | 854.7 | 822.9 | 866.4 | 861.7 | 876.4 | 901.1 | 925.2 |
| 7.5° | 1073.3 | 1045.7 | 1004.0 | 995.1 | 947.5 | 912.3 | 949.9 | 996.3 | 1011.0 | 1056.3 | 1083.3 |
| 10° | 1130.9 | 1106.8 | 1114.5 | 1075.1 | 1072.7 | 1082.7 | 1074.5 | 1085.1 | 1123.9 | 1118.6 | 1138.6 |
| 12.5° | 1260.2 | 1264.4 | 1239.7 | 1229.7 | 1249.7 | 1293.2 | 1256.1 | 1243.2 | 1233.8 | 1273.8 | 1286.1 |
| 15° | 1381.3 | 1405.4 | 1364.9 | 1358.4 | 1350.2 | 1390.7 | 1350.8 | 1370.2 | 1387.2 | 1395.4 | 1390.7 |
| 17.5° | 1553.0 | 1554.1 | 1508.9 | 1436.6 | 1463.6 | 1476.6 | 1458.9 | 1425.4 | 1505.9 | 1546.5 | 1548.9 |
| 20° | 1665.8 | 1669.9 | 1580.6 | 1467.7 | 1544.2 | 1555.9 | 1547.1 | 1477.1 | 1584.1 | 1651.7 | 1648.8 |
| 22.5° | 1787.5 | 1773.4 | 1652.3 | 1570.0 | 1597.1 | 1604.1 | 1585.3 | 1576.5 | 1651.7 | 1774.6 | 1756.3 |
| 25° | 1869.2 | 1895.1 | 1774.6 | 1721.7 | 1698.7 | 1682.3 | 1706.4 | 1711.1 | 1788.1 | 1899.8 | 1838.1 |
| 27.5° | 2064.4 | 2019.7 | 1831.0 | 1851.0 | 1802.2 | 1691.1 | 1796.9 | 1855.1 | 1838.6 | 2029.1 | 2075.5 |
| 30° | 2237.8 | 2238.9 | 1974.4 | 2012.6 | 1922.1 | 1832.2 | 1946.8 | 2030.9 | 2010.3 | 2254.2 | 2210.1 |
| 32.5° | 2459.4 | 2467.6 | 2221.9 | 2119.6 | 2058.5 | 2041.4 | 2027.3 | 2120.2 | 2248.3 | 2445.8 | 2450.0 |
| 35° | 2698.6 | 2769.1 | 2435.3 | 2327.7 | 2223.7 | 2148.4 | 2229.5 | 2358.3 | 2441.7 | 2757.4 | 2701.5 |
| 37.5° | 3164.7 | 3046.0 | 2772.7 | 2570.5 | 2504.0 | 2474.1 | 2517.0 | 2591.6 | 2772.1 | 3044.2 | 3140.0 |
| 40° | 3440.4 | 3407.5 | 3035.4 | 2866.1 | 2609.8 | 2689.8 | 2666.3 | 2870.8 | 3020.1 | 3426.3 | 3435.1 |
| 42.5° | 3861.9 | 3696.1 | 3361.6 | 3146.5 | 2916.1 | 2777.4 | 2924.3 | 3198.8 | 3379.3 | 3722.5 | 3884.8 |
| 45° | 4195.1 | 3982.4 | 3724.3 | 3560.9 | 3269.9 | 3167.1 | 3220.0 | 3571.5 | 3797.8 | 4033.5 | 4246.9 |
| 47.5° | 4563.7 | 4333.3 | 4075.2 | 3784.9 | 3500.9 | 3668.5 | 3575.0 | 3884.2 | 4105.2 | 4443.2 | 4643.0 |
| 50° | 5026.9 | 4771.8 | 4441.4 | 4201.6 | 4013.5 | 4072.3 | 4057.6 | 4278.0 | 4550.8 | 4858.8 | 5085.7 |
| 52.5° | 5537.1 | 5248.5 | 4929.9 | 4707.1 | 4627.8 | 4482.0 | 4672.4 | 4763.0 | 4964.0 | 5246.1 | 5512.4 |
| 55° | 5893.9 | 5605.3 | 5412.5 | 5484.2 | 5463.0 | 5229.1 | 5396.0 | 5405.4 | 5308.4 | 5410.1 | 5678.2 |
| 57.5° | 5838.6 | 5563.0 | 5536.5 | 5807.5 | 6212.5 | 6438.8 | 6180.7 | 5625.8 | 5262.6 | 5215.0 | 5498.9 |
| 60° | 5105.1 | 4869.3 | 5111.5 | 5722.8 | 6902.5 | 7591.5 | 6598.1 | 5459.5 | 4861.1 | 4613.7 | 4887.6 |
| 62.5° | 3518.0 | 3358.7 | 3860.7 | 4816.4 | 6985.4 | 8480.8 | 6582.8 | 4744.1 | 3770.2 | 3321.1 | 3533.9 |
| 65° | 1667.6 | 1610.0 | 2033.8 | 3053.6 | 5818.6 | 8243.3 | 5751.0 | 3210.0 | 2170.2 | 1733.4 | 1781.6 |
| 67.5° | 627.2 | 598.4 | 746.5 | 1349.0 | 3664.9 | 6538.1 | 3866.0 | 1583.5 | 839.4 | 652.5 | 674.8 |
| 70° | 356.2 | 335.6 | 355.0 | 492.0 | 1475.4 | 3703.1 | 1667.6 | 543.1 | 356.8 | 325.1 | 346.2 |
| 72.5° | 280.4 | 264.5 | 267.4 | 297.4 | 509.0 | 1453.6 | 539.6 | 309.8 | 259.2 | 246.3 | 265.1 |
| 75° | 231.6 | 217.5 | 216.9 | 233.4 | 296.8 | 472.0 | 305.1 | 236.9 | 209.8 | 200.4 | 215.7 |
| 77.5° | 184.0 | 175.8 | 178.1 | 191.0 | 212.8 | 263.9 | 221.0 | 191.6 | 172.2 | 161.1 | 171.6 |
| 80° | 134.6 | 133.4 | 142.8 | 154.6 | 158.7 | 177.5 | 165.8 | 154.6 | 137.5 | 121.7 | 125.8 |
| 82.5° | 88.2 | 88.8 | 106.4 | 115.8 | 114.0 | 113.4 | 118.7 | 118.1 | 102.9 | 80.5 | 80.5 |
| 85° | 50.6 | 51.7 | 65.2 | 72.9 | 71.7 | 57.0 | 75.2 | 75.8 | 65.8 | 48.8 | 47.0 |
| 87.5° | 16.5 | 20.6 | 28.2 | 30.0 | 28.8 | 15.9 | 28.8 | 31.7 | 28.8 | 20.6 | 18.2 |
| 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)