

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: P367920

Luminaire Tested: **PMM-SA3C-727-U-5NQ**

Issue Date: 12/2/2019

Test Information

Test Method: LM-79-08
Report Number: P367920
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-SA3C-727-U-5NQ
Description: MESA POST TOP DECORATIVE LUMINAIRE. (3) LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15580 lumens
Efficiency: N/A
Efficacy: 93.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

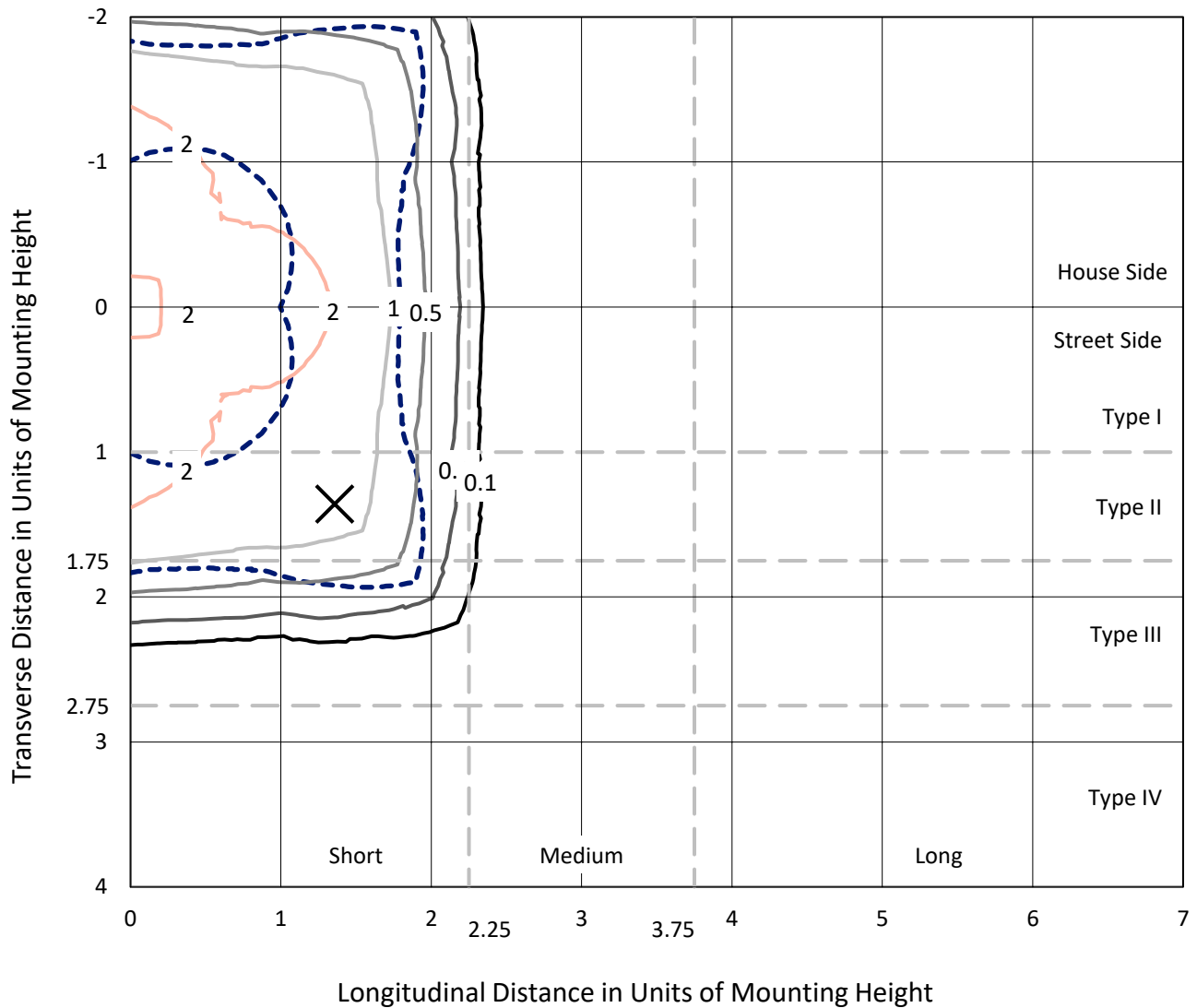
Input Watts (W): 166
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

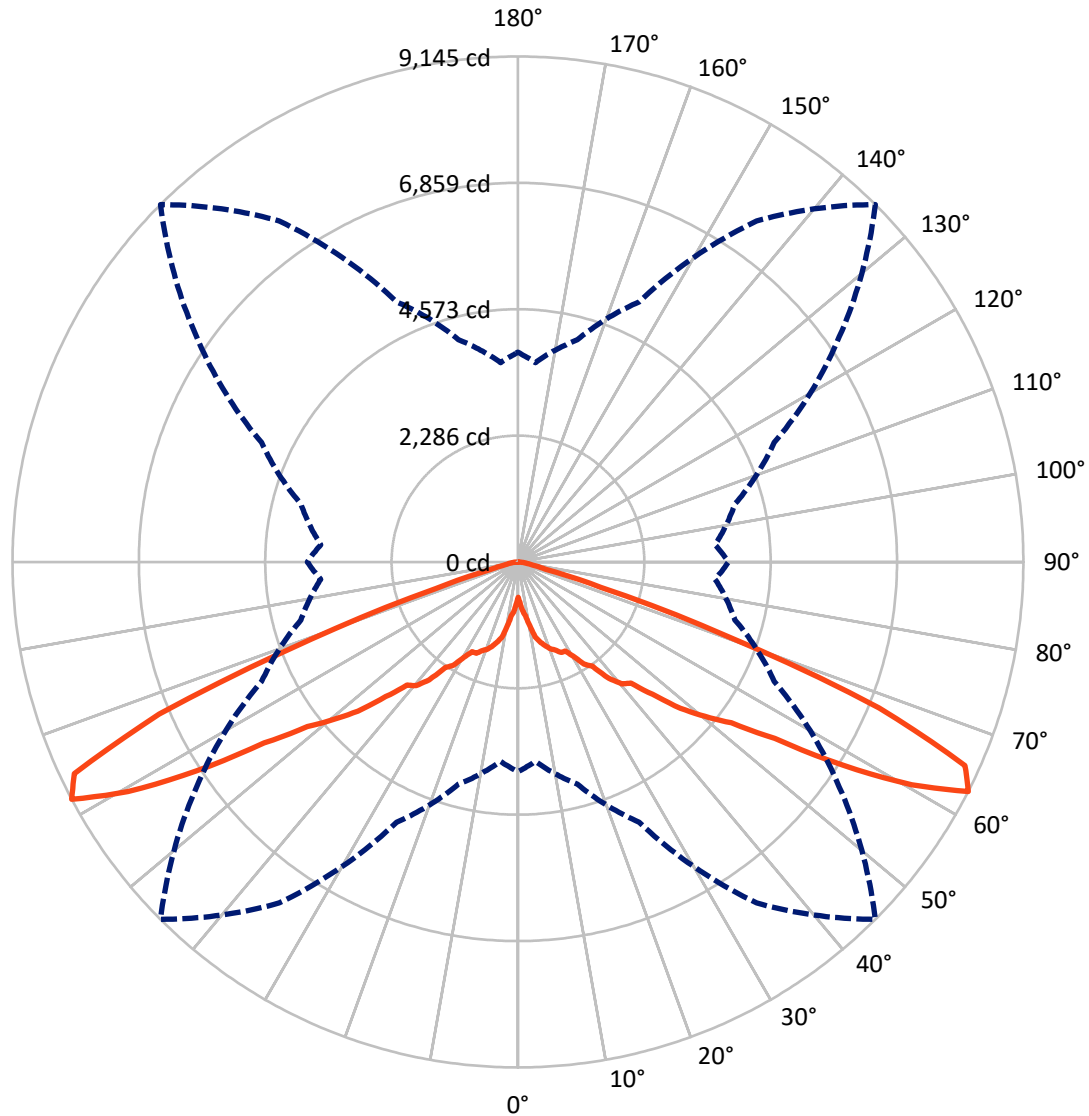
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.7 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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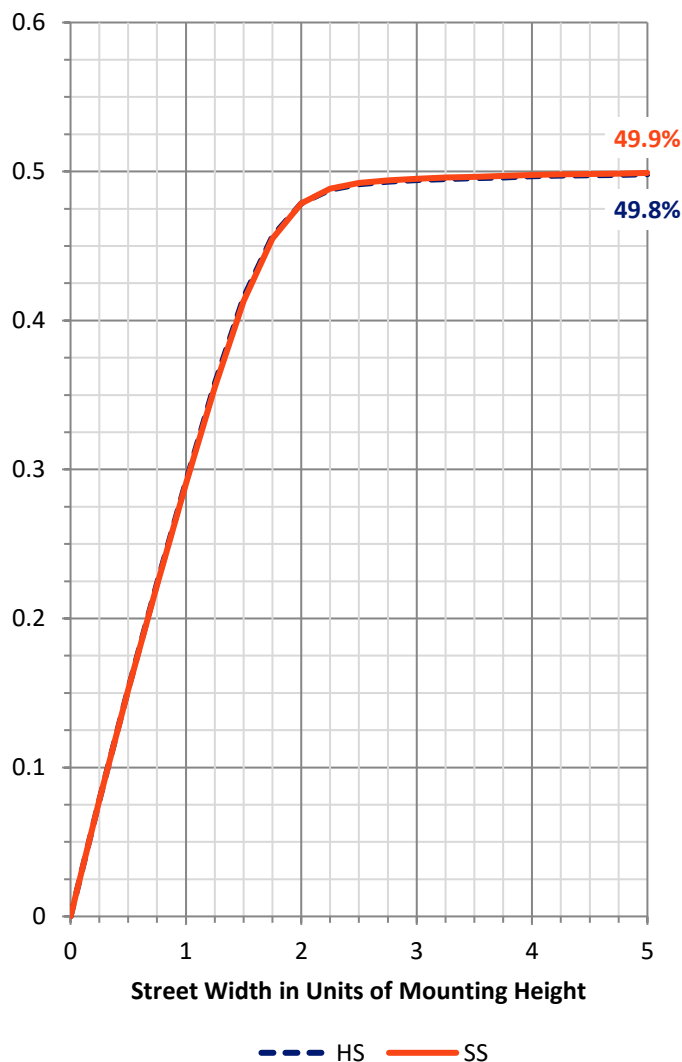
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7790.0 | 0.0 | 7790.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7790.0 | 0.0 | 7790.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 15580.0 | 0.0 | 15580.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 96.0 | 0.6 |
| 10°-20° | 423.3 | 2.7 |
| 20°-30° | 887.3 | 5.7 |
| 30°-40° | 1671.7 | 10.7 |
| 40°-50° | 3034.1 | 19.5 |
| 50°-60° | 5126.6 | 32.9 |
| 60°-70° | 3832.4 | 24.6 |
| 70°-80° | 428.7 | 2.8 |
| 80°-90° | 79.8 | 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° | 15580.0 | 100.0 |
| 0°-180° | 15580.0 | 100.0 |

Coefficient of Utilization



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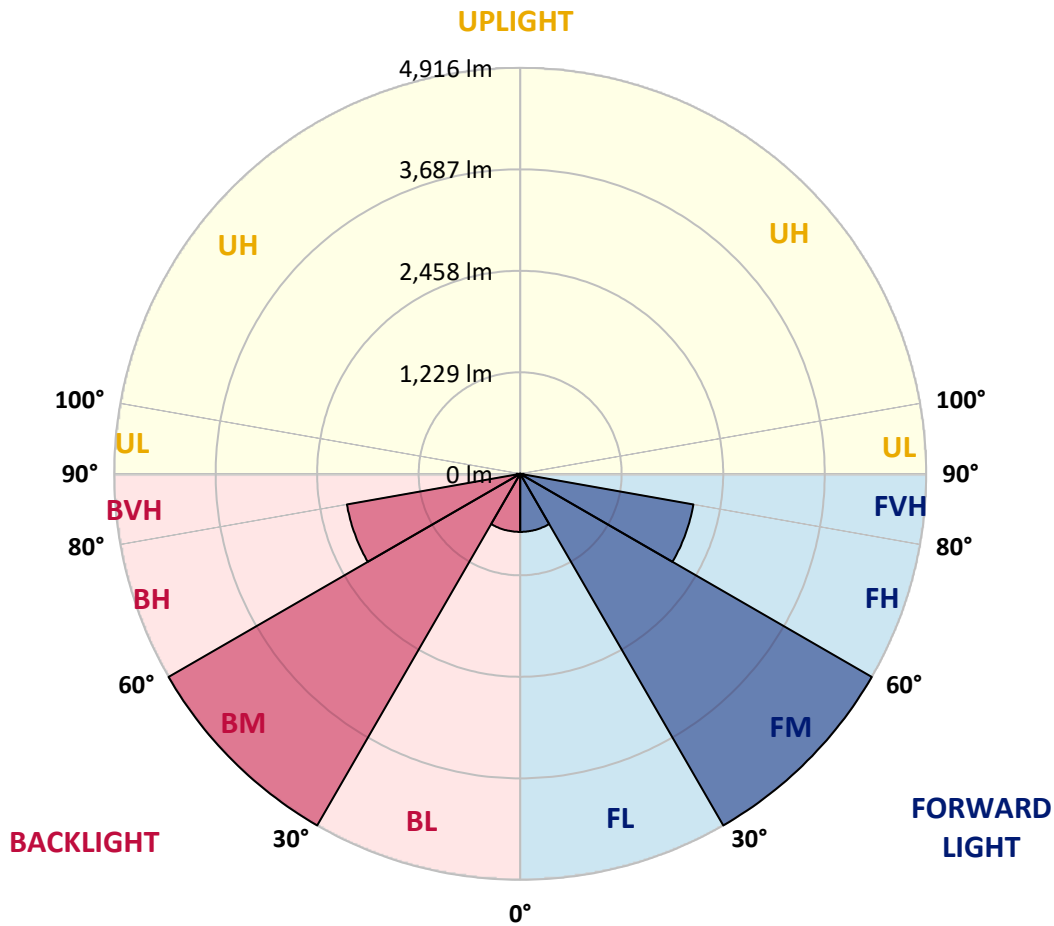
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 703.3 | 4.5 | | | |
| FM (30°-60°) | 4916.2 | 31.6 | | | |
| FH (60°-80°) | 2130.6 | 13.7 | | | G2/5000 |
| FVH (80°-90°) | 39.9 | 0.3 | | | G1/100 |
| BL (0°-30°) | 703.3 | 4.5 | B2/1000 | | |
| BM (30°-60°) | 4916.2 | 31.6 | B3/5000 | | |
| BH (60°-80°) | 2130.6 | 13.7 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 39.9 | 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° | 637.0 | 637.0 | 637.0 | 637.0 | 637.0 | 637.0 | 637.0 | 637.0 | 637.0 | 637.0 | 637.0 |
| 2.5° | 774.6 | 760.6 | 711.8 | 728.9 | 746.7 | 744.1 | 739.7 | 726.4 | 714.4 | 764.4 | 774.6 |
| 5° | 987.5 | 955.9 | 938.7 | 924.8 | 921.6 | 887.4 | 934.3 | 929.2 | 945.1 | 971.7 | 997.7 |
| 7.5° | 1157.4 | 1127.6 | 1082.6 | 1073.1 | 1021.8 | 983.7 | 1024.3 | 1074.4 | 1090.2 | 1139.0 | 1168.2 |
| 10° | 1219.5 | 1193.5 | 1201.8 | 1159.3 | 1156.8 | 1167.6 | 1158.7 | 1170.1 | 1211.9 | 1206.2 | 1227.8 |
| 12.5° | 1359.0 | 1363.4 | 1336.8 | 1326.0 | 1347.6 | 1394.5 | 1354.5 | 1340.6 | 1330.5 | 1373.6 | 1386.9 |
| 15° | 1489.6 | 1515.5 | 1471.8 | 1464.8 | 1456.0 | 1499.7 | 1456.6 | 1477.5 | 1495.9 | 1504.8 | 1499.7 |
| 17.5° | 1674.6 | 1675.9 | 1627.1 | 1549.1 | 1578.3 | 1592.2 | 1573.2 | 1537.1 | 1623.9 | 1667.7 | 1670.2 |
| 20° | 1796.3 | 1800.8 | 1704.4 | 1582.7 | 1665.1 | 1677.8 | 1668.3 | 1592.9 | 1708.2 | 1781.1 | 1778.0 |
| 22.5° | 1927.6 | 1912.3 | 1781.8 | 1693.0 | 1722.2 | 1729.8 | 1709.5 | 1700.0 | 1781.1 | 1913.6 | 1894.0 |
| 25° | 2015.7 | 2043.5 | 1913.6 | 1856.6 | 1831.8 | 1814.1 | 1840.1 | 1845.2 | 1928.2 | 2048.6 | 1982.1 |
| 27.5° | 2226.1 | 2177.9 | 1974.5 | 1996.0 | 1943.4 | 1823.6 | 1937.7 | 2000.4 | 1982.7 | 2188.1 | 2238.1 |
| 30° | 2413.1 | 2414.4 | 2129.1 | 2170.3 | 2072.7 | 1975.7 | 2099.3 | 2190.0 | 2167.8 | 2430.8 | 2383.3 |
| 32.5° | 2652.1 | 2660.9 | 2396.0 | 2285.7 | 2219.8 | 2201.4 | 2186.2 | 2286.3 | 2424.5 | 2637.5 | 2641.9 |
| 35° | 2910.0 | 2986.1 | 2626.1 | 2510.1 | 2397.9 | 2316.7 | 2404.2 | 2543.0 | 2633.0 | 2973.4 | 2913.2 |
| 37.5° | 3412.7 | 3284.6 | 2989.9 | 2771.8 | 2700.2 | 2667.9 | 2714.2 | 2794.7 | 2989.3 | 3282.7 | 3386.1 |
| 40° | 3710.0 | 3674.5 | 3273.2 | 3090.7 | 2814.3 | 2900.5 | 2875.2 | 3095.7 | 3256.7 | 3694.7 | 3704.3 |
| 42.5° | 4164.4 | 3985.7 | 3625.0 | 3393.0 | 3144.6 | 2995.0 | 3153.4 | 3449.4 | 3644.0 | 4014.2 | 4189.2 |
| 45° | 4523.8 | 4294.4 | 4016.1 | 3839.9 | 3526.1 | 3415.2 | 3472.3 | 3851.3 | 4095.3 | 4349.5 | 4579.6 |
| 47.5° | 4921.3 | 4672.8 | 4394.5 | 4081.4 | 3775.2 | 3955.9 | 3855.1 | 4188.5 | 4426.8 | 4791.3 | 5006.8 |
| 50° | 5420.7 | 5145.6 | 4789.4 | 4530.8 | 4328.0 | 4391.4 | 4375.5 | 4613.2 | 4907.3 | 5239.4 | 5484.1 |
| 52.5° | 5970.9 | 5659.7 | 5316.1 | 5075.9 | 4990.3 | 4833.1 | 5038.5 | 5136.1 | 5352.9 | 5657.2 | 5944.3 |
| 55° | 6355.7 | 6044.4 | 5836.5 | 5913.9 | 5891.1 | 5638.8 | 5818.8 | 5828.9 | 5724.3 | 5834.0 | 6123.0 |
| 57.5° | 6296.1 | 5998.8 | 5970.3 | 6262.5 | 6699.2 | 6943.3 | 6665.0 | 6066.6 | 5674.9 | 5623.6 | 5929.7 |
| 60° | 5505.0 | 5250.9 | 5512.0 | 6171.2 | 7443.4 | 8186.2 | 7115.0 | 5887.2 | 5242.0 | 4975.1 | 5270.5 |
| 62.5° | 3793.6 | 3621.8 | 4163.2 | 5193.8 | 7532.7 | 9145.3 | 7098.5 | 5115.8 | 4065.5 | 3581.3 | 3810.7 |
| 65° | 1798.2 | 1736.1 | 2193.1 | 3292.9 | 6274.5 | 8889.2 | 6201.6 | 3461.5 | 2340.2 | 1869.2 | 1921.2 |
| 67.5° | 676.3 | 645.3 | 805.0 | 1454.7 | 3952.1 | 7050.4 | 4168.9 | 1707.6 | 905.1 | 703.6 | 727.7 |
| 70° | 384.1 | 361.9 | 382.8 | 530.5 | 1591.0 | 3993.3 | 1798.2 | 585.7 | 384.8 | 350.5 | 373.3 |
| 72.5° | 302.3 | 285.2 | 288.4 | 320.7 | 548.9 | 1567.5 | 581.9 | 334.0 | 279.5 | 265.6 | 285.9 |
| 75° | 249.7 | 234.5 | 233.9 | 251.6 | 320.1 | 509.0 | 329.0 | 255.4 | 226.3 | 216.1 | 232.6 |
| 77.5° | 198.4 | 189.5 | 192.1 | 206.0 | 229.5 | 284.6 | 238.3 | 206.6 | 185.7 | 173.7 | 185.1 |
| 80° | 145.2 | 143.9 | 154.0 | 166.7 | 171.1 | 191.4 | 178.7 | 166.7 | 148.3 | 131.2 | 135.6 |
| 82.5° | 95.1 | 95.7 | 114.7 | 124.9 | 123.0 | 122.3 | 128.0 | 127.4 | 110.9 | 86.8 | 86.8 |
| 85° | 54.5 | 55.8 | 70.4 | 78.6 | 77.3 | 61.5 | 81.1 | 81.8 | 71.0 | 52.6 | 50.7 |
| 87.5° | 17.7 | 22.2 | 30.4 | 32.3 | 31.1 | 17.1 | 31.1 | 34.2 | 31.1 | 22.2 | 19.6 |
| 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)