

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: P565316

Luminaire Tested: **IFLD-L-SA8A-AMB-U-5MQ**

Issue Date: 09/02/2021

Test Information

Test Method: LM-79-08
Report Number: P565316
Test Lab: INNOVATION CENTER(G2)
Issue Date: 09/02/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-AMB-U-5MQ
Description: STREETWORKS INFRASTRUCTURE FLOOD-- Middle Tier Light Square
Luminaire w/ 5MQ distribution lens
Light Source: (128) AMB CCT, -- CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

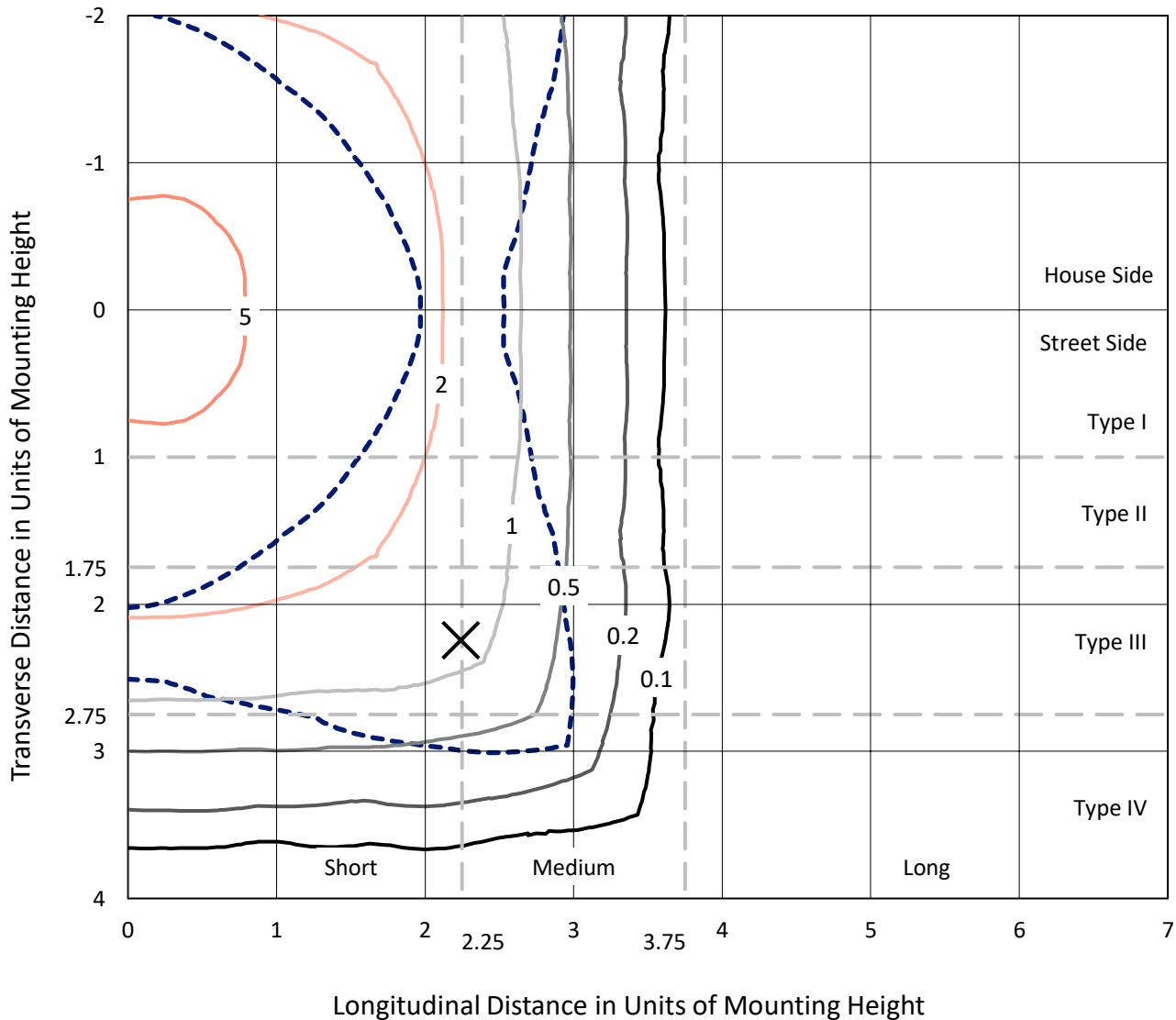
Lumens per Lamp: N/A
Luminaire Lumens: 8220.3 lumens
Efficiency: N/A
Efficacy: 51.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B3 - U0 - G2

Input Watts (W): 160
Input Voltage (V): 120
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: 24 FT

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Iso-Footcandle Lines of Horizontal Illumination

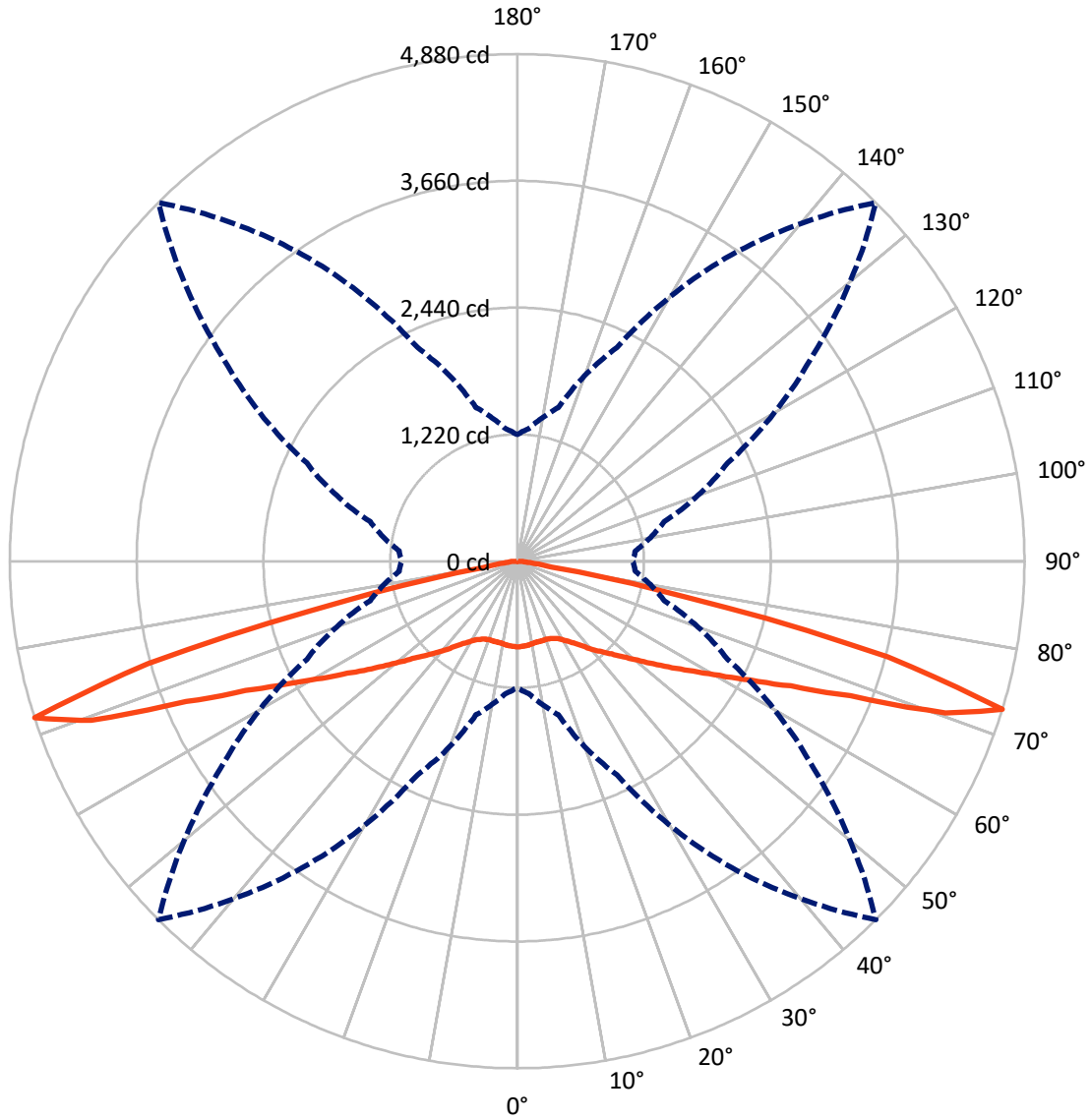
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 72.5-Deg Vertical

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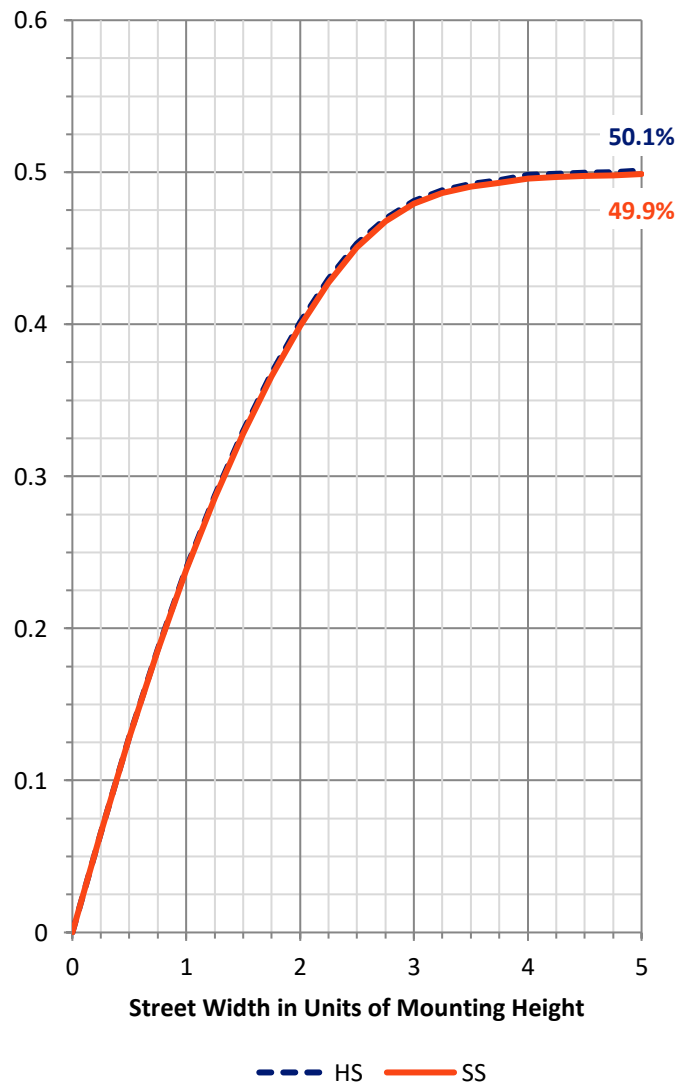
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4110.1 | 0.0 | 4110.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4110.1 | 0.0 | 4110.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8220.3 | 0.0 | 8220.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 77.8 | 0.9 |
| 10°-20° | 225.4 | 2.7 |
| 20°-30° | 377.2 | 4.6 |
| 30°-40° | 614.0 | 7.5 |
| 40°-50° | 1004.3 | 12.2 |
| 50°-60° | 1651.3 | 20.1 |
| 60°-70° | 2685.0 | 32.7 |
| 70°-80° | 1518.0 | 18.5 |
| 80°-90° | 67.3 | 0.8 |
| 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° | 8220.3 | 100.0 |
| 0°-180° | 8220.3 | 100.0 |

Coefficient of Utilization

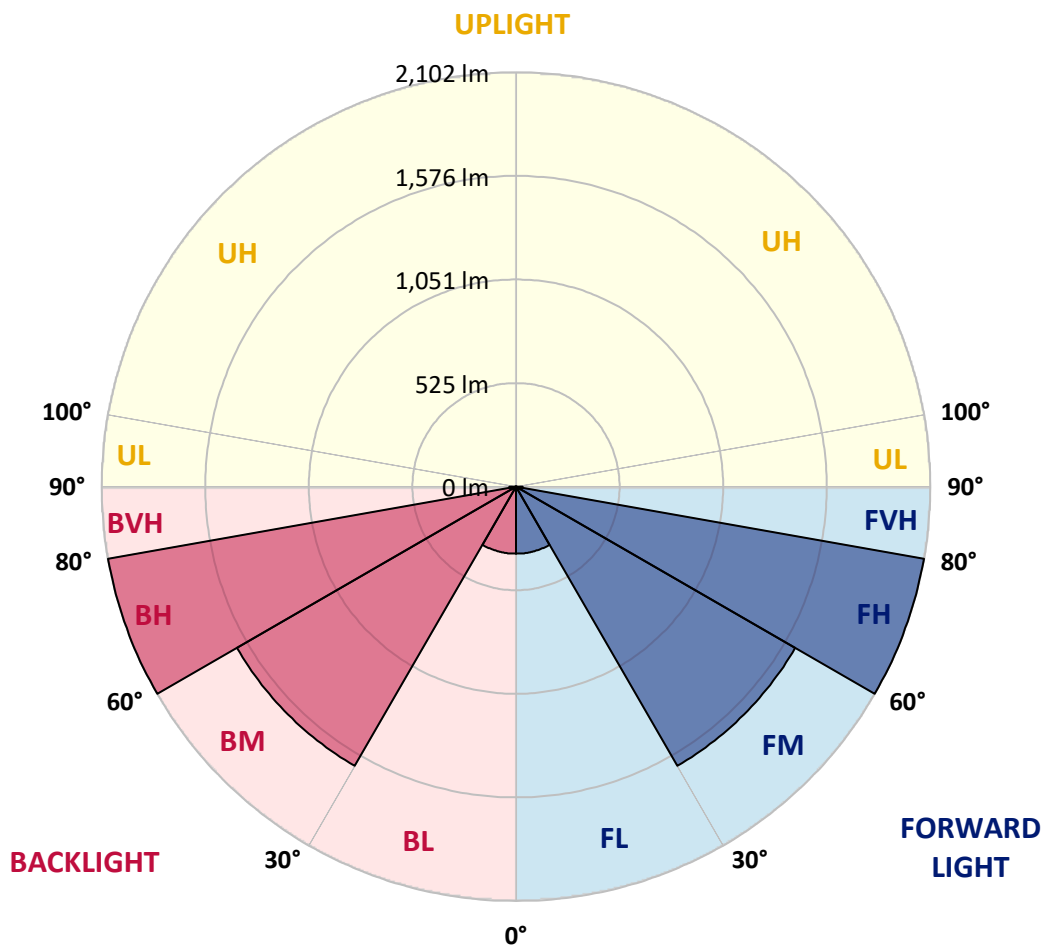


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 340.2 | 4.1 | | | |
| FM (30°-60°) | 1634.8 | 19.9 | | | |
| FH (60°-80°) | 2101.5 | 25.6 | | | G2/5000 |
| FVH (80°-90°) | 33.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 340.2 | 4.1 | B1/500 | | |
| BM (30°-60°) | 1634.8 | 19.9 | B2/2500 | | |
| BH (60°-80°) | 2101.5 | 25.6 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 33.6 | 0.4 | | | 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° | 825.9 | 825.9 | 825.9 | 825.9 | 825.9 | 825.9 | 825.9 | 825.9 | 825.9 | 825.9 | 825.9 |
| 2.5° | 818.0 | 818.0 | 818.0 | 818.0 | 818.0 | 821.9 | 821.9 | 825.9 | 825.9 | 829.8 | 829.8 |
| 5° | 818.0 | 818.0 | 818.0 | 818.0 | 818.0 | 818.0 | 821.9 | 821.9 | 821.9 | 821.9 | 825.9 |
| 7.5° | 814.1 | 814.1 | 814.1 | 814.1 | 810.1 | 814.1 | 814.1 | 814.1 | 818.0 | 818.0 | 818.0 |
| 10° | 802.3 | 802.3 | 802.3 | 802.3 | 802.3 | 806.2 | 806.2 | 806.2 | 806.2 | 810.1 | 810.1 |
| 12.5° | 794.4 | 794.4 | 794.4 | 798.3 | 798.3 | 802.3 | 802.3 | 798.3 | 798.3 | 798.3 | 798.3 |
| 15° | 790.5 | 786.5 | 790.5 | 794.4 | 798.3 | 802.3 | 802.3 | 794.4 | 794.4 | 790.5 | 790.5 |
| 17.5° | 786.5 | 782.6 | 786.5 | 790.5 | 798.3 | 802.3 | 798.3 | 790.5 | 790.5 | 786.5 | 786.5 |
| 20° | 778.7 | 778.7 | 782.6 | 790.5 | 798.3 | 802.3 | 802.3 | 790.5 | 786.5 | 782.6 | 782.6 |
| 22.5° | 778.7 | 778.7 | 786.5 | 798.3 | 806.2 | 810.1 | 806.2 | 794.4 | 786.5 | 778.7 | 778.7 |
| 25° | 786.5 | 786.5 | 798.3 | 810.1 | 821.9 | 825.9 | 818.0 | 806.2 | 798.3 | 786.5 | 782.6 |
| 27.5° | 810.1 | 806.2 | 818.0 | 833.7 | 841.6 | 845.5 | 841.6 | 825.9 | 814.1 | 802.3 | 802.3 |
| 30° | 849.5 | 845.5 | 857.3 | 873.0 | 880.9 | 880.9 | 873.0 | 861.2 | 849.5 | 837.7 | 837.7 |
| 32.5° | 896.6 | 896.6 | 908.4 | 920.2 | 928.1 | 924.2 | 920.2 | 916.3 | 908.4 | 896.6 | 900.6 |
| 35° | 936.0 | 939.9 | 959.6 | 975.3 | 983.2 | 975.3 | 975.3 | 975.3 | 967.4 | 955.6 | 951.7 |
| 37.5° | 991.0 | 995.0 | 1014.6 | 1038.2 | 1050.0 | 1042.1 | 1046.1 | 1034.3 | 1018.6 | 1006.8 | 1006.8 |
| 40° | 1069.7 | 1069.7 | 1093.3 | 1112.9 | 1124.7 | 1116.9 | 1120.8 | 1112.9 | 1101.1 | 1089.3 | 1093.3 |
| 42.5° | 1148.3 | 1152.3 | 1175.9 | 1199.5 | 1199.5 | 1191.6 | 1195.5 | 1199.5 | 1191.6 | 1175.9 | 1171.9 |
| 45° | 1242.7 | 1246.6 | 1274.2 | 1293.8 | 1286.0 | 1274.2 | 1286.0 | 1305.6 | 1289.9 | 1274.2 | 1278.1 |
| 47.5° | 1345.0 | 1348.9 | 1380.4 | 1400.0 | 1396.1 | 1376.4 | 1400.0 | 1415.8 | 1404.0 | 1376.4 | 1372.5 |
| 50° | 1455.1 | 1459.0 | 1502.3 | 1525.9 | 1529.8 | 1498.3 | 1529.8 | 1553.4 | 1529.8 | 1494.4 | 1490.5 |
| 52.5° | 1580.9 | 1596.7 | 1639.9 | 1675.3 | 1667.4 | 1639.9 | 1671.4 | 1702.8 | 1683.2 | 1643.8 | 1636.0 |
| 55° | 1738.2 | 1746.1 | 1797.2 | 1840.5 | 1844.4 | 1809.0 | 1848.3 | 1875.9 | 1848.3 | 1797.2 | 1789.4 |
| 57.5° | 1899.5 | 1923.1 | 1970.3 | 2021.4 | 2041.0 | 1993.8 | 2048.9 | 2064.6 | 2013.5 | 1950.6 | 1946.7 |
| 60° | 2064.6 | 2088.2 | 2147.2 | 2225.9 | 2261.3 | 2233.7 | 2269.1 | 2253.4 | 2178.7 | 2104.0 | 2096.1 |
| 62.5° | 2328.1 | 2336.0 | 2387.1 | 2461.8 | 2520.8 | 2516.9 | 2528.7 | 2485.4 | 2434.3 | 2375.3 | 2383.2 |
| 65° | 2536.6 | 2540.5 | 2646.7 | 2752.8 | 2866.9 | 2894.4 | 2859.0 | 2815.8 | 2745.0 | 2595.5 | 2599.5 |
| 67.5° | 2536.6 | 2564.1 | 2748.9 | 3032.1 | 3311.3 | 3456.8 | 3323.1 | 3098.9 | 2823.6 | 2595.5 | 2603.4 |
| 70° | 2186.5 | 2178.7 | 2473.6 | 2984.9 | 3767.5 | 4373.1 | 3736.0 | 3039.9 | 2461.8 | 2135.4 | 2135.4 |
| 72.5° | 1219.1 | 1278.1 | 1529.8 | 2269.1 | 3602.3 | 4880.4 | 3484.3 | 2233.7 | 1462.9 | 1140.5 | 1112.9 |
| 75° | 448.3 | 460.1 | 566.3 | 967.4 | 2182.6 | 3684.9 | 2096.1 | 892.7 | 479.8 | 397.2 | 397.2 |
| 77.5° | 184.8 | 180.9 | 192.7 | 243.8 | 656.8 | 1655.6 | 582.0 | 263.5 | 208.4 | 208.4 | 212.4 |
| 80° | 106.2 | 110.1 | 118.0 | 125.8 | 157.3 | 338.2 | 192.7 | 153.4 | 141.6 | 137.6 | 141.6 |
| 82.5° | 47.2 | 55.1 | 74.7 | 82.6 | 94.4 | 121.9 | 125.8 | 114.0 | 98.3 | 82.6 | 78.7 |
| 85° | 23.6 | 19.7 | 35.4 | 43.3 | 55.1 | 66.9 | 74.7 | 78.7 | 70.8 | 43.3 | 43.3 |
| 87.5° | 3.9 | 3.9 | 7.9 | 7.9 | 11.8 | 15.7 | 27.5 | 31.5 | 31.5 | 15.7 | 15.7 |
| 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)