

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: P799871

Luminaire Tested: **ARCH2-60-727-U-5WQ**

Issue Date: 4/4/2024

Test Information

Test Method: LM-79-08
Report Number: P799871
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-2401-285-14)
Test Lab: INNOVATION CENTER
Issue Date: 4/4/2024
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH2-60-727-U-5WQ
Description: ARCHEON CONTEMPORARY ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 2700K, 485mA LIGHTSQUARES WITH 10 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8611 lumens
Efficiency: N/A
Efficacy: 135.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 0.33' x H: 0')
IES Classification: Type V - Medium
BUG Rating: B3 - U0 - G2

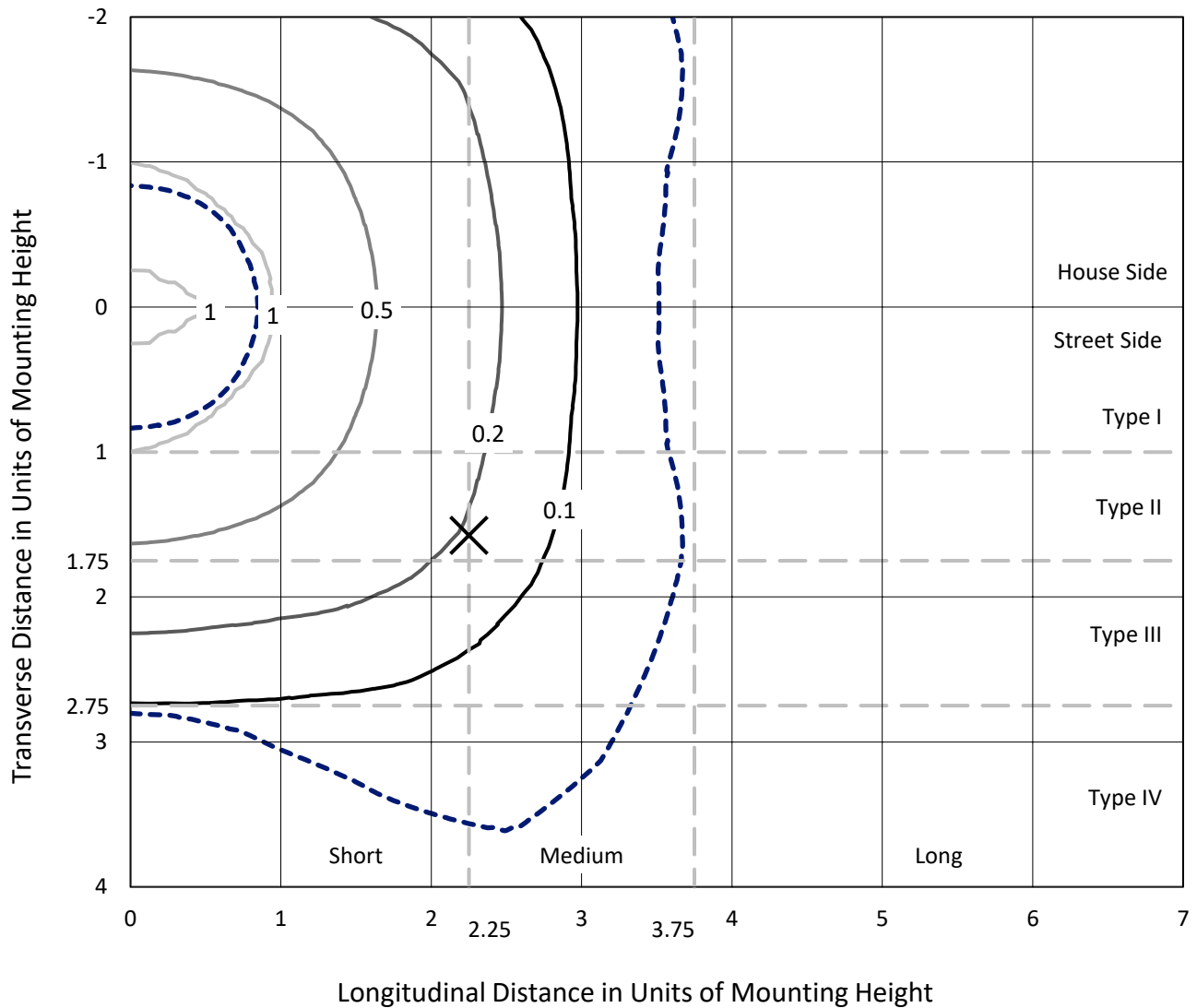
Input Watts (W): 63.8
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

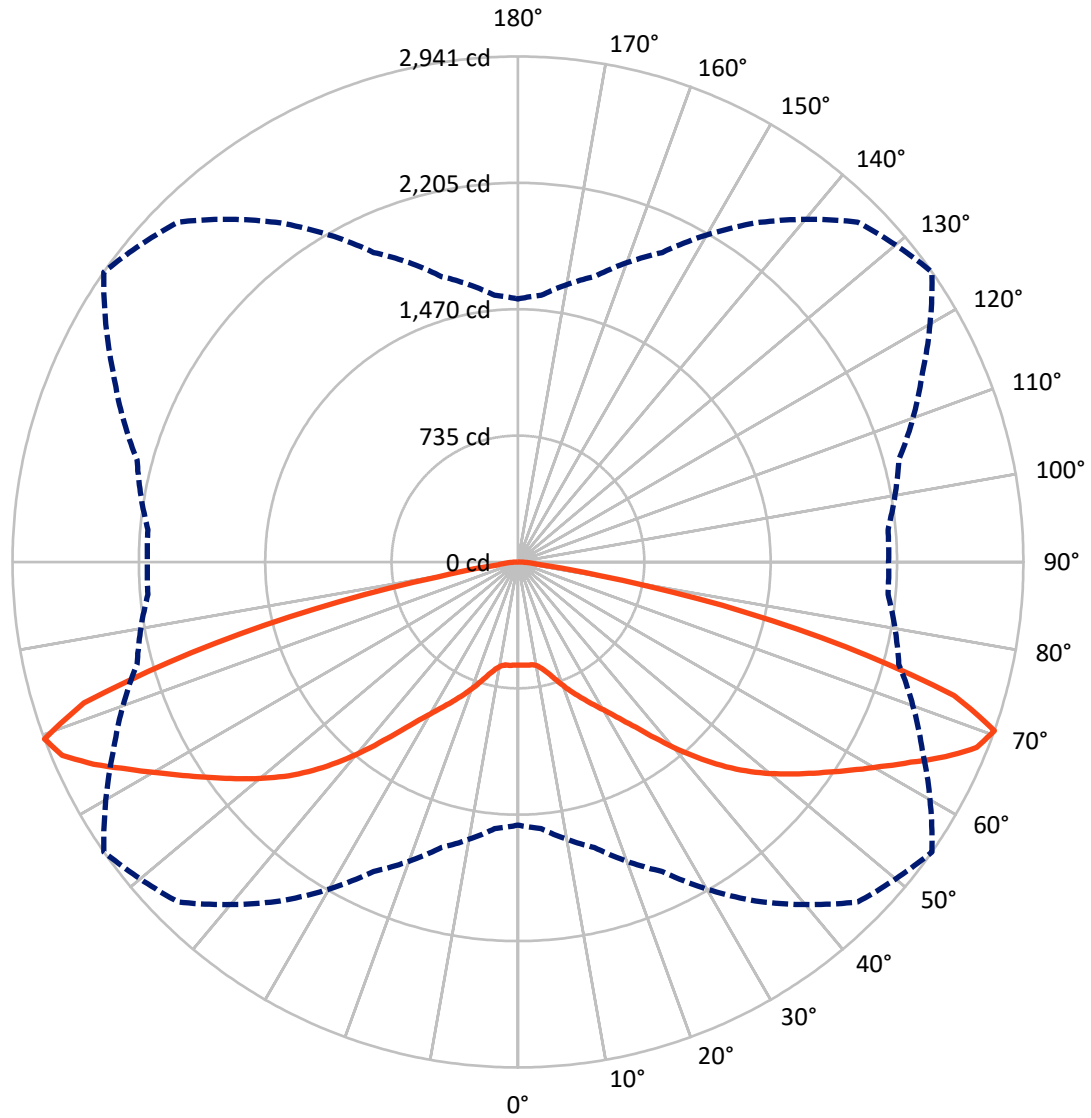
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 1.1 fc
 Type V - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 55-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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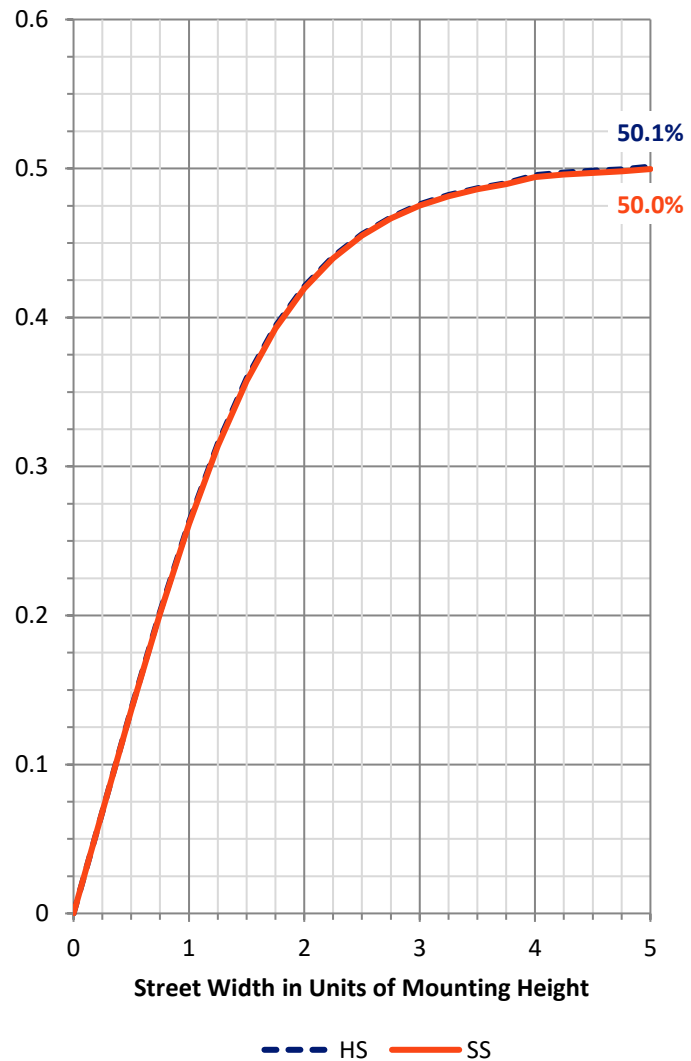
FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|--------|
| House Side | Lumens | 4305.5 | 0.0 | 4305.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 4305.5 | 0.0 | 4305.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 8611.0 | 0.0 | 8611.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10° | 58.0 | 0.7 |
| 10°-20° | 197.2 | 2.3 |
| 20°-30° | 409.8 | 4.8 |
| 30°-40° | 756.9 | 8.8 |
| 40°-50° | 1329.7 | 15.4 |
| 50°-60° | 1917.7 | 22.3 |
| 60°-70° | 2347.1 | 27.3 |
| 70°-80° | 1493.5 | 17.3 |
| 80°-90° | 101.0 | 1.2 |
| 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° | 8611.0 | 100.0 |
| 0°-180° | 8611.0 | 100.0 |

Coefficient of Utilization

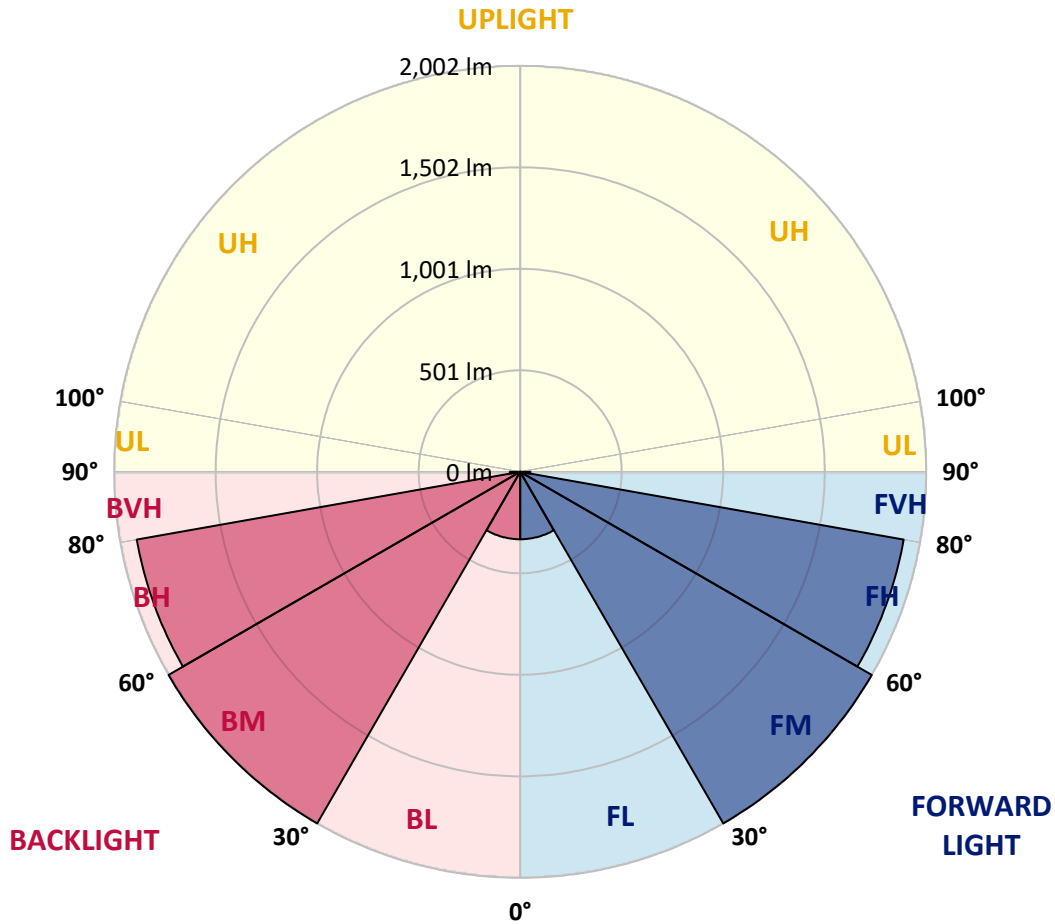


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 332.5 | 3.9 | | | |
| FM (30°-60°) | 2002.2 | 23.3 | | | |
| FH (60°-80°) | 1920.3 | 22.3 | | | G2/5000 |
| FVH (80°-90°) | 50.5 | 0.6 | | | G1/100 |
| BL (0°-30°) | 332.5 | 3.9 | B1/500 | | |
| BM (30°-60°) | 2002.2 | 23.3 | B2/2500 | | |
| BH (60°-80°) | 1920.3 | 22.3 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 50.5 | 0.6 | | | 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 Medium



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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 600.3 | 600.3 | 600.3 | 600.3 | 600.3 | 600.3 | 600.3 | 600.3 | 600.3 | 600.3 | 600.3 |
| 2.5° | 608.3 | 608.3 | 606.7 | 606.7 | 603.5 | 601.9 | 600.3 | 600.3 | 598.7 | 598.7 | 597.1 |
| 5° | 611.5 | 611.5 | 611.5 | 609.9 | 608.3 | 606.7 | 603.5 | 600.3 | 598.7 | 597.1 | 595.5 |
| 7.5° | 613.1 | 613.1 | 611.5 | 611.5 | 609.9 | 608.3 | 603.5 | 598.7 | 597.1 | 595.5 | 595.5 |
| 10° | 625.9 | 624.3 | 622.7 | 619.5 | 619.5 | 619.5 | 613.1 | 608.3 | 606.7 | 606.7 | 606.7 |
| 12.5° | 656.3 | 654.7 | 651.5 | 646.7 | 646.7 | 648.3 | 638.7 | 632.3 | 632.3 | 630.7 | 630.7 |
| 15° | 701.1 | 699.5 | 696.3 | 688.3 | 686.7 | 689.9 | 675.5 | 669.1 | 669.1 | 669.1 | 667.5 |
| 17.5° | 750.7 | 747.5 | 742.7 | 736.3 | 736.3 | 736.3 | 721.9 | 713.9 | 709.1 | 709.1 | 707.5 |
| 20° | 792.4 | 790.8 | 790.8 | 789.2 | 794.0 | 794.0 | 774.7 | 761.9 | 750.7 | 744.3 | 742.7 |
| 22.5° | 829.2 | 827.6 | 830.8 | 837.2 | 846.8 | 850.0 | 827.6 | 808.4 | 790.8 | 777.9 | 774.7 |
| 25° | 878.8 | 877.2 | 875.6 | 885.2 | 901.2 | 906.0 | 882.0 | 858.0 | 840.4 | 834.0 | 830.8 |
| 27.5° | 931.6 | 933.2 | 934.8 | 944.4 | 957.2 | 965.2 | 941.2 | 918.8 | 904.4 | 894.8 | 891.6 |
| 30° | 990.8 | 994.0 | 998.8 | 1013.3 | 1022.9 | 1026.1 | 1005.2 | 989.2 | 976.4 | 968.4 | 963.6 |
| 32.5° | 1066.1 | 1072.5 | 1078.9 | 1091.7 | 1096.5 | 1093.3 | 1083.7 | 1072.5 | 1062.9 | 1051.7 | 1050.1 |
| 35° | 1178.1 | 1184.5 | 1182.9 | 1187.7 | 1189.3 | 1186.1 | 1181.3 | 1174.9 | 1170.1 | 1155.7 | 1154.1 |
| 37.5° | 1319.0 | 1325.4 | 1315.8 | 1311.0 | 1299.8 | 1301.4 | 1299.8 | 1304.6 | 1306.2 | 1291.8 | 1290.2 |
| 40° | 1461.5 | 1467.9 | 1455.0 | 1442.2 | 1431.0 | 1426.2 | 1434.2 | 1450.2 | 1450.2 | 1440.6 | 1440.6 |
| 42.5° | 1613.5 | 1618.3 | 1597.5 | 1581.5 | 1567.1 | 1563.9 | 1568.7 | 1587.9 | 1592.7 | 1591.1 | 1591.1 |
| 45° | 1765.6 | 1762.4 | 1735.2 | 1719.2 | 1706.4 | 1698.4 | 1700.0 | 1714.4 | 1724.0 | 1728.8 | 1728.8 |
| 47.5° | 1882.4 | 1877.6 | 1855.2 | 1842.4 | 1834.4 | 1823.2 | 1823.2 | 1831.2 | 1836.0 | 1837.6 | 1837.6 |
| 50° | 1975.3 | 1970.5 | 1948.1 | 1946.5 | 1946.5 | 1941.7 | 1936.9 | 1935.3 | 1932.1 | 1933.7 | 1933.7 |
| 52.5° | 2055.3 | 2048.9 | 2032.9 | 2036.1 | 2050.5 | 2053.7 | 2047.3 | 2034.5 | 2021.7 | 2016.9 | 2018.5 |
| 55° | 2141.8 | 2132.2 | 2119.3 | 2129.0 | 2157.8 | 2170.6 | 2161.0 | 2135.4 | 2112.9 | 2098.5 | 2098.5 |
| 57.5° | 2210.6 | 2199.4 | 2199.4 | 2226.6 | 2279.4 | 2305.0 | 2284.2 | 2236.2 | 2197.8 | 2181.8 | 2183.4 |
| 60° | 2162.6 | 2153.0 | 2191.4 | 2311.4 | 2410.7 | 2453.9 | 2418.7 | 2333.8 | 2271.4 | 2252.2 | 2255.4 |
| 62.5° | 2068.1 | 2061.7 | 2109.7 | 2295.4 | 2529.1 | 2618.8 | 2565.9 | 2444.3 | 2351.4 | 2329.0 | 2329.0 |
| 65° | 1928.9 | 1927.3 | 1994.5 | 2223.4 | 2556.3 | 2777.2 | 2732.4 | 2564.3 | 2444.3 | 2413.9 | 2420.3 |
| 67.5° | 1784.8 | 1784.8 | 1845.6 | 2100.1 | 2524.3 | 2844.5 | 2879.7 | 2673.2 | 2489.1 | 2413.9 | 2415.5 |
| 70° | 1530.3 | 1557.5 | 1719.2 | 1986.5 | 2407.5 | 2796.4 | 2940.5 | 2596.4 | 2293.8 | 2161.0 | 2156.2 |
| 72.5° | 1008.5 | 1043.7 | 1365.4 | 1788.0 | 2292.2 | 2622.0 | 2654.0 | 2281.0 | 1904.9 | 1749.6 | 1741.6 |
| 75° | 608.3 | 638.7 | 885.2 | 1395.8 | 2015.3 | 2111.3 | 1970.5 | 1788.0 | 1423.0 | 1301.4 | 1301.4 |
| 77.5° | 179.3 | 200.1 | 408.2 | 885.2 | 1394.2 | 1387.8 | 1214.9 | 1053.3 | 842.0 | 715.5 | 725.1 |
| 80° | 105.6 | 108.8 | 132.9 | 403.4 | 577.9 | 608.3 | 469.0 | 292.9 | 292.9 | 217.7 | 211.3 |
| 82.5° | 81.6 | 81.6 | 84.8 | 100.8 | 139.3 | 155.3 | 118.5 | 100.8 | 115.3 | 97.6 | 92.8 |
| 85° | 57.6 | 57.6 | 57.6 | 59.2 | 60.8 | 62.4 | 65.6 | 67.2 | 73.6 | 60.8 | 57.6 |
| 87.5° | 17.6 | 19.2 | 20.8 | 24.0 | 28.8 | 30.4 | 32.0 | 28.8 | 28.8 | 27.2 | 25.6 |
| 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)