

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: P265733

Luminaire Tested: **ARCH-L-AF72-270-D-U-5WQ-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P265733
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29597)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: ARCH-L-AF72-270-D-U-5WQ-7027
Description: ARCHEON-L ROADWAY AND AREA LUMINAIRE
(3) 70 CRI, 2700K, 1155mA LIGHT ENGINES WITH 24 LEDS AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 26605 lumens
Efficiency: N/A
Efficacy: 97.5 lumens/watt
Luminous Opening: Rectangular (W 0.75' x L: 1.5' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B5 - U0 - G4

Input Watts (W): 273
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

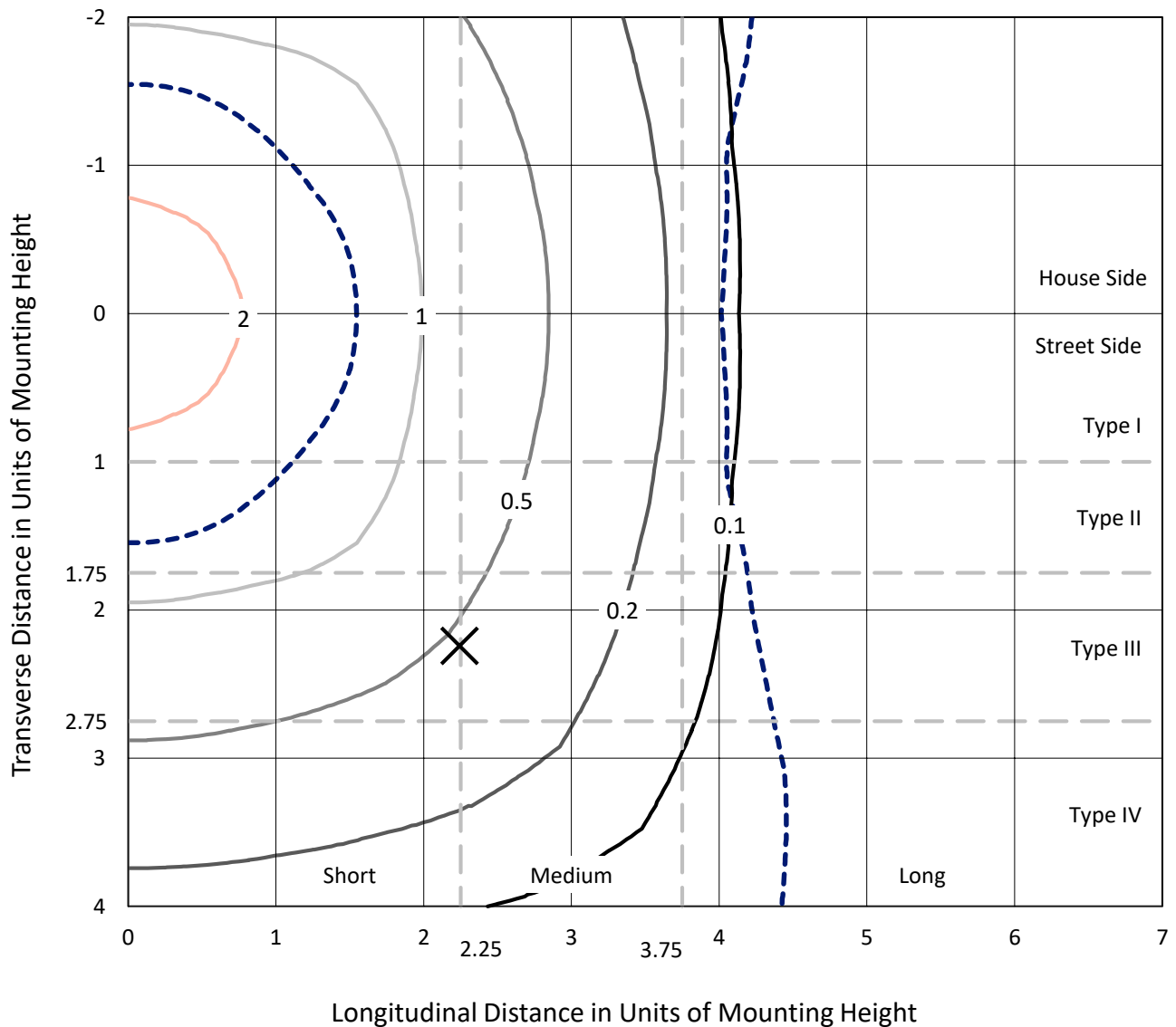


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

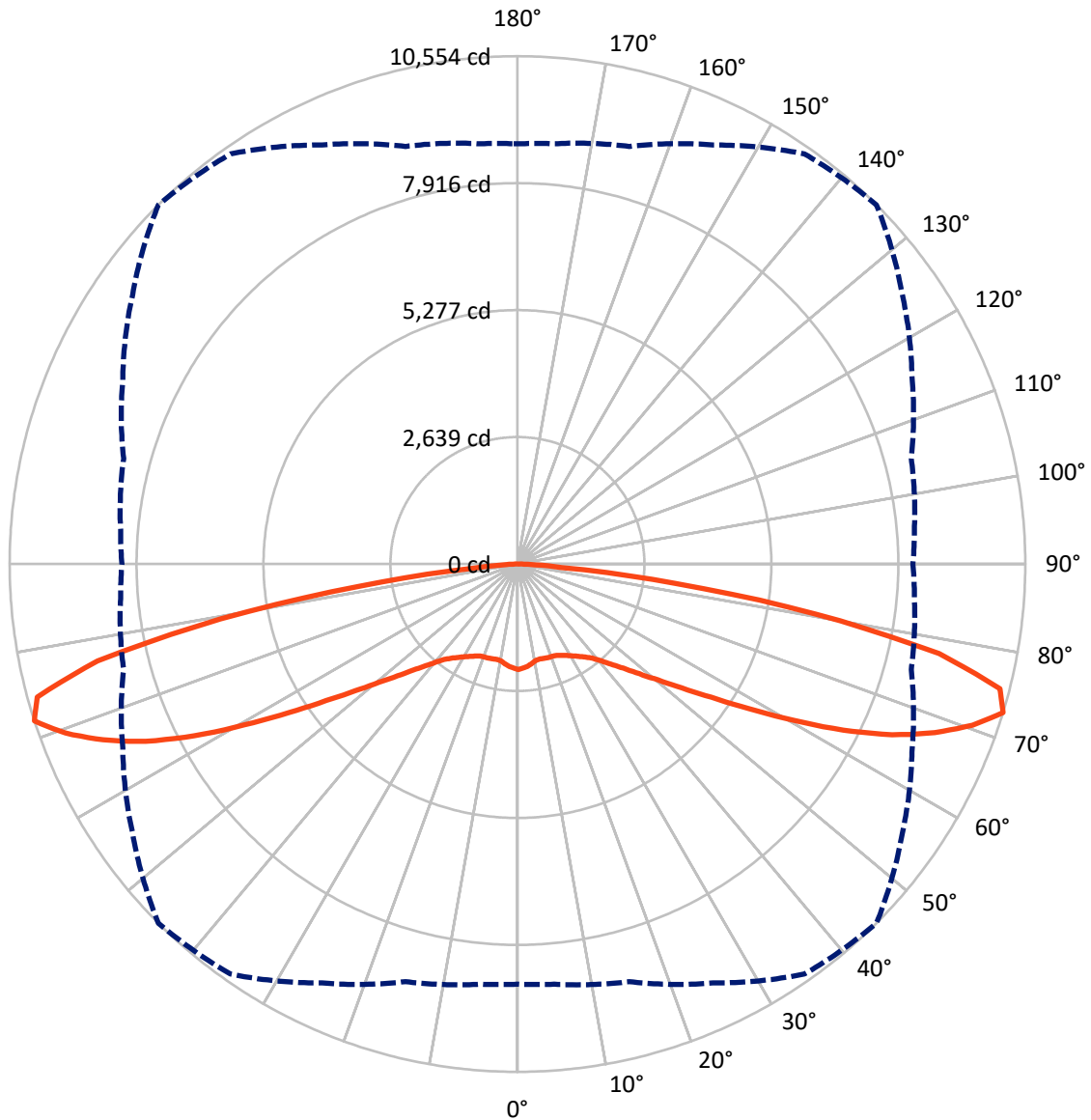


Based on 25 foot mounting height. Maximum calculated value = 3.5 fc
 Type V - Short - Non-Cutoff

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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 | 13302.5 | 0.0 | 13302.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13302.5 | 0.0 | 13302.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 26605.0 | 0.0 | 26605.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 201.8 | 0.8 |
| 10°-20° | 582.2 | 2.2 |
| 20°-30° | 974.2 | 3.7 |
| 30°-40° | 1496.9 | 5.6 |
| 40°-50° | 2478.5 | 9.3 |
| 50°-60° | 4406.3 | 16.6 |
| 60°-70° | 7708.8 | 29.0 |
| 70°-80° | 7843.0 | 29.5 |
| 80°-90° | 913.3 | 3.4 |
| 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° | 26605.0 | 100.0 |
| 0°-180° | 26605.0 | 100.0 |



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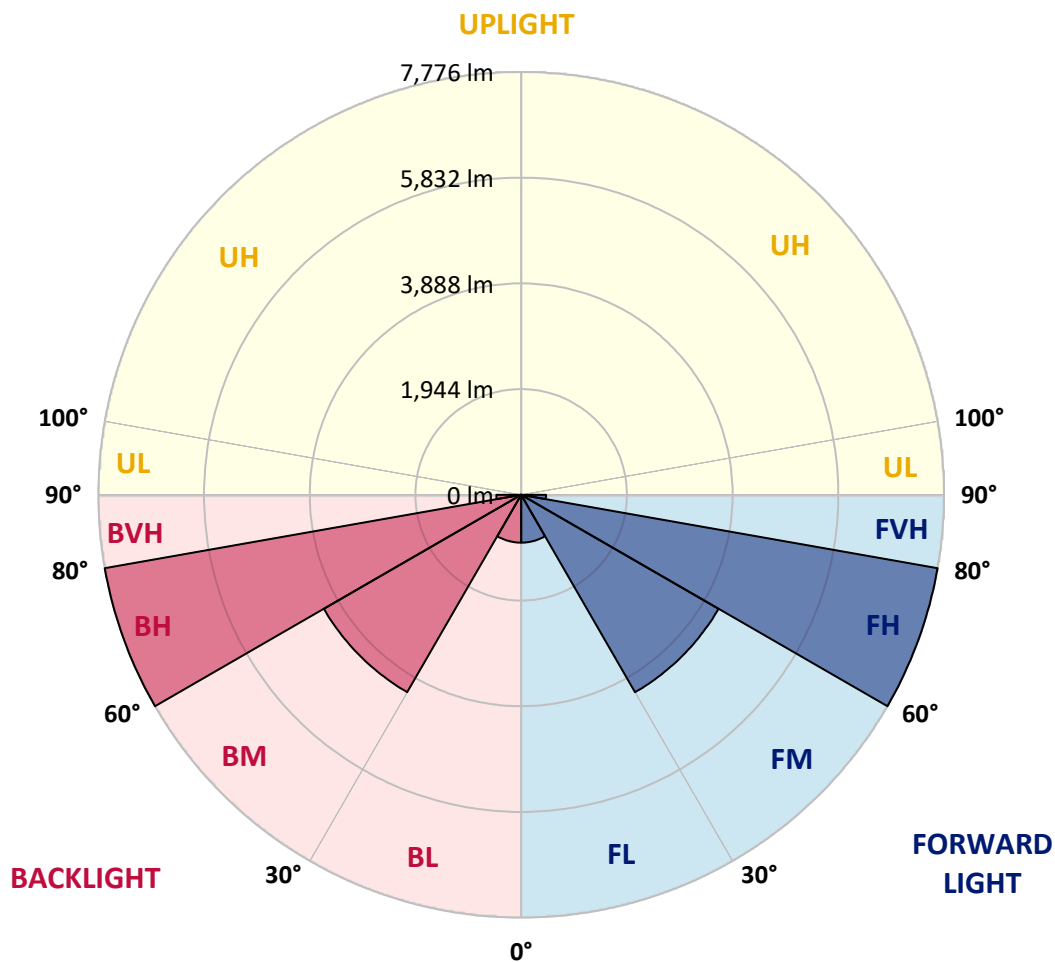
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 879.1 | 3.3 | | | |
| FM | (30°-60°) | 4190.9 | 15.8 | | | |
| FH | (60°-80°) | 7775.9 | 29.2 | | | G4/12000 |
| FVH | (80°-90°) | 456.6 | 1.7 | | | G3/500 |
| BL | (0°-30°) | 879.1 | 3.3 | B2/1000 | | |
| BM | (30°-60°) | 4190.9 | 15.8 | B3/5000 | | |
| BH | (60°-80°) | 7775.9 | 29.2 | B5 | | G4/12000 |
| BVH | (80°-90°) | 456.6 | 1.7 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 2192.9 | 2192.9 | 2192.9 | 2192.9 | 2192.9 | 2192.9 | 2192.9 | 2192.9 | 2192.9 | 2192.9 | 2192.9 |
| 2.5° | 2172.6 | 2177.8 | 2167.5 | 2167.5 | 2167.5 | 2162.5 | 2167.5 | 2162.5 | 2167.5 | 2172.6 | 2172.6 |
| 5° | 2152.3 | 2152.3 | 2142.2 | 2142.2 | 2142.2 | 2137.2 | 2142.2 | 2142.2 | 2147.3 | 2152.3 | 2152.3 |
| 7.5° | 2106.7 | 2106.7 | 2101.8 | 2096.6 | 2091.6 | 2091.6 | 2096.6 | 2096.6 | 2101.8 | 2106.7 | 2106.7 |
| 10° | 2081.5 | 2076.4 | 2066.2 | 2051.1 | 2046.0 | 2040.9 | 2051.1 | 2061.3 | 2076.4 | 2091.6 | 2086.6 |
| 12.5° | 2071.3 | 2066.2 | 2046.0 | 2030.8 | 2020.6 | 2025.8 | 2035.9 | 2046.0 | 2071.3 | 2086.6 | 2081.5 |
| 15° | 2081.5 | 2071.3 | 2046.0 | 2020.6 | 2025.8 | 2035.9 | 2046.0 | 2046.0 | 2076.4 | 2091.6 | 2091.6 |
| 17.5° | 2081.5 | 2076.4 | 2046.0 | 2025.8 | 2030.8 | 2046.0 | 2051.1 | 2046.0 | 2071.3 | 2096.6 | 2096.6 |
| 20° | 2086.6 | 2086.6 | 2046.0 | 2030.8 | 2035.9 | 2051.1 | 2056.1 | 2051.1 | 2071.3 | 2101.8 | 2101.8 |
| 22.5° | 2096.6 | 2091.6 | 2051.1 | 2040.9 | 2051.1 | 2061.3 | 2066.2 | 2061.3 | 2081.5 | 2106.7 | 2111.8 |
| 25° | 2116.9 | 2106.7 | 2071.3 | 2066.2 | 2086.6 | 2101.8 | 2101.8 | 2091.6 | 2101.8 | 2127.0 | 2127.0 |
| 27.5° | 2142.2 | 2137.2 | 2096.6 | 2096.6 | 2121.9 | 2152.3 | 2137.2 | 2116.9 | 2127.0 | 2152.3 | 2152.3 |
| 30° | 2187.8 | 2182.7 | 2142.2 | 2142.2 | 2177.8 | 2213.2 | 2177.8 | 2152.3 | 2167.5 | 2192.9 | 2198.0 |
| 32.5° | 2253.7 | 2253.7 | 2218.2 | 2208.0 | 2268.8 | 2284.0 | 2268.8 | 2218.2 | 2228.3 | 2263.8 | 2263.8 |
| 35° | 2365.1 | 2354.9 | 2319.5 | 2314.5 | 2375.2 | 2370.1 | 2365.1 | 2319.5 | 2329.7 | 2370.1 | 2370.1 |
| 37.5° | 2511.9 | 2506.9 | 2476.4 | 2461.3 | 2491.7 | 2471.3 | 2481.6 | 2461.3 | 2486.6 | 2517.1 | 2522.0 |
| 40° | 2699.2 | 2694.2 | 2669.0 | 2648.7 | 2658.9 | 2628.4 | 2638.5 | 2648.7 | 2674.0 | 2694.2 | 2699.2 |
| 42.5° | 2932.2 | 2932.2 | 2906.9 | 2871.5 | 2856.3 | 2841.1 | 2841.1 | 2861.5 | 2886.8 | 2912.0 | 2912.0 |
| 45° | 3221.0 | 3221.0 | 3190.6 | 3155.0 | 3109.6 | 3084.2 | 3094.3 | 3114.7 | 3145.0 | 3175.4 | 3185.5 |
| 47.5° | 3560.3 | 3560.3 | 3519.6 | 3484.3 | 3438.7 | 3408.3 | 3408.3 | 3418.4 | 3464.0 | 3489.3 | 3504.6 |
| 50° | 3940.1 | 3924.9 | 3884.5 | 3848.9 | 3823.5 | 3783.1 | 3788.2 | 3783.1 | 3823.5 | 3859.1 | 3869.2 |
| 52.5° | 4335.1 | 4330.0 | 4289.5 | 4279.3 | 4294.5 | 4274.3 | 4274.3 | 4223.7 | 4238.9 | 4259.1 | 4254.1 |
| 55° | 4826.4 | 4811.1 | 4775.7 | 4796.0 | 4856.7 | 4887.0 | 4877.0 | 4796.0 | 4750.3 | 4760.5 | 4755.4 |
| 57.5° | 5363.2 | 5348.0 | 5337.9 | 5398.6 | 5535.4 | 5661.9 | 5636.7 | 5449.3 | 5363.2 | 5368.2 | 5373.3 |
| 60° | 5910.0 | 5910.0 | 5940.5 | 6092.5 | 6386.2 | 6593.7 | 6517.8 | 6203.9 | 6051.9 | 6021.5 | 6011.4 |
| 62.5° | 6472.3 | 6487.5 | 6553.2 | 6806.5 | 7257.2 | 7601.5 | 7409.2 | 6963.5 | 6735.6 | 6674.9 | 6654.6 |
| 65° | 7125.5 | 7140.7 | 7236.9 | 7551.0 | 8148.5 | 8558.8 | 8229.6 | 7809.2 | 7490.2 | 7363.5 | 7343.4 |
| 67.5° | 8072.6 | 8082.7 | 8158.6 | 8462.6 | 9024.7 | 9354.0 | 9014.6 | 8639.8 | 8295.5 | 8148.5 | 8138.5 |
| 70° | 8923.5 | 8933.6 | 8999.4 | 9399.4 | 9916.0 | 10032.5 | 9657.8 | 9181.7 | 8822.2 | 8705.7 | 8685.4 |
| 72.5° | 8730.9 | 8766.4 | 8984.2 | 9607.2 | 10402.3 | 10554.1 | 9764.0 | 9050.1 | 8472.8 | 8280.2 | 8219.5 |
| 75° | 7323.1 | 7378.8 | 7723.2 | 8660.1 | 9926.1 | 10356.6 | 9136.1 | 7824.4 | 6963.5 | 6593.7 | 6497.6 |
| 77.5° | 4274.3 | 4482.0 | 5074.4 | 6274.8 | 8082.7 | 8958.8 | 7525.6 | 5727.9 | 4279.3 | 3671.6 | 3469.1 |
| 80° | 1169.9 | 1281.3 | 1711.8 | 2886.8 | 5069.4 | 6274.8 | 4801.0 | 2628.4 | 1418.1 | 1063.6 | 987.5 |
| 82.5° | 369.7 | 491.3 | 623.0 | 830.6 | 1990.3 | 3307.0 | 1782.6 | 774.9 | 607.8 | 501.3 | 445.6 |
| 85° | 197.4 | 212.7 | 349.4 | 405.1 | 597.6 | 926.8 | 552.0 | 405.1 | 364.6 | 268.5 | 253.2 |
| 87.5° | 101.2 | 106.4 | 197.4 | 197.4 | 263.4 | 217.7 | 238.1 | 217.7 | 207.7 | 131.7 | 116.5 |
| 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)