

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: P451935

Luminaire Tested: **GLAN-SA2D-760-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P451935
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-4)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA2D-760-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(2) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16050 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

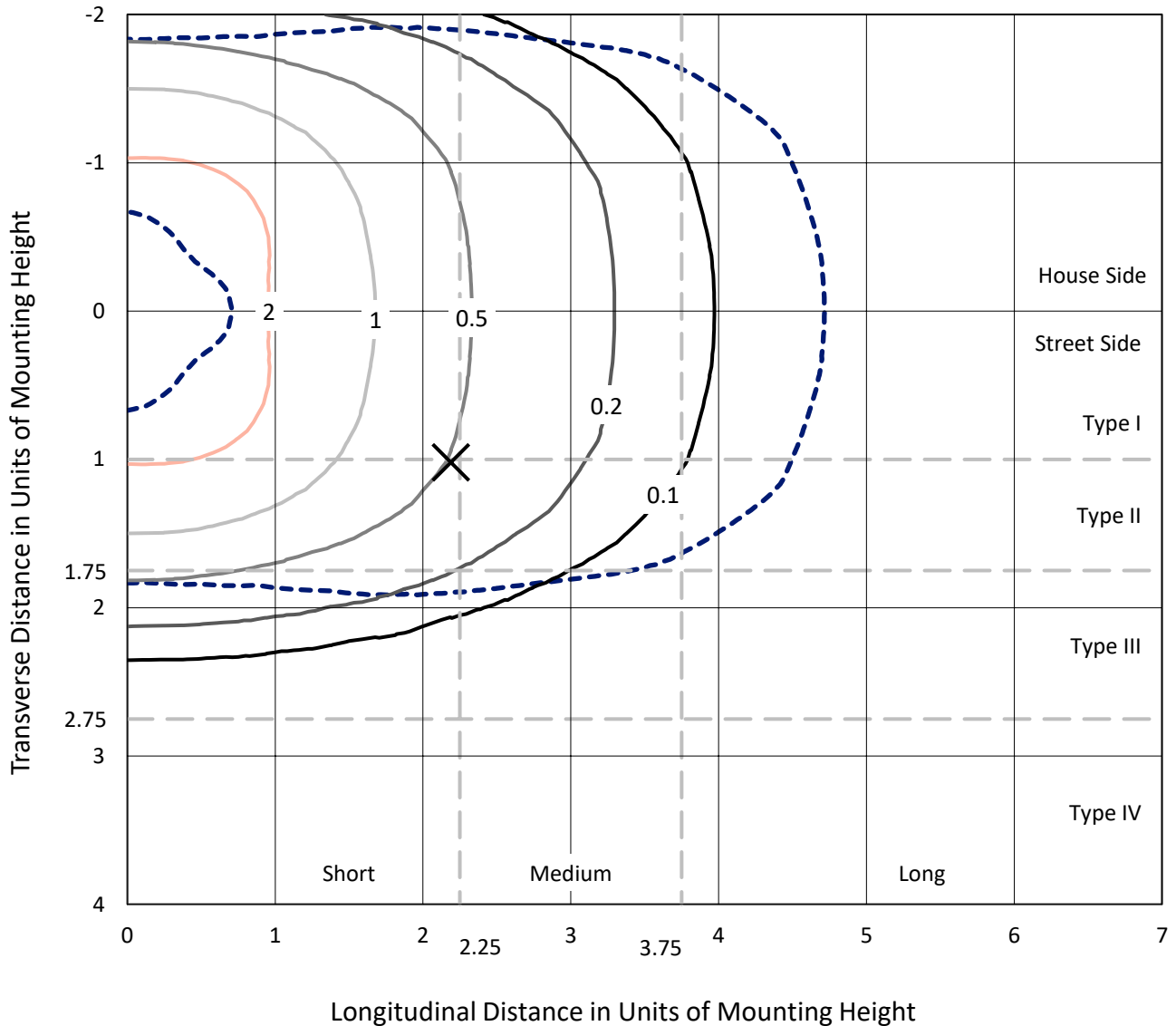
Input Watts (W): 125
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

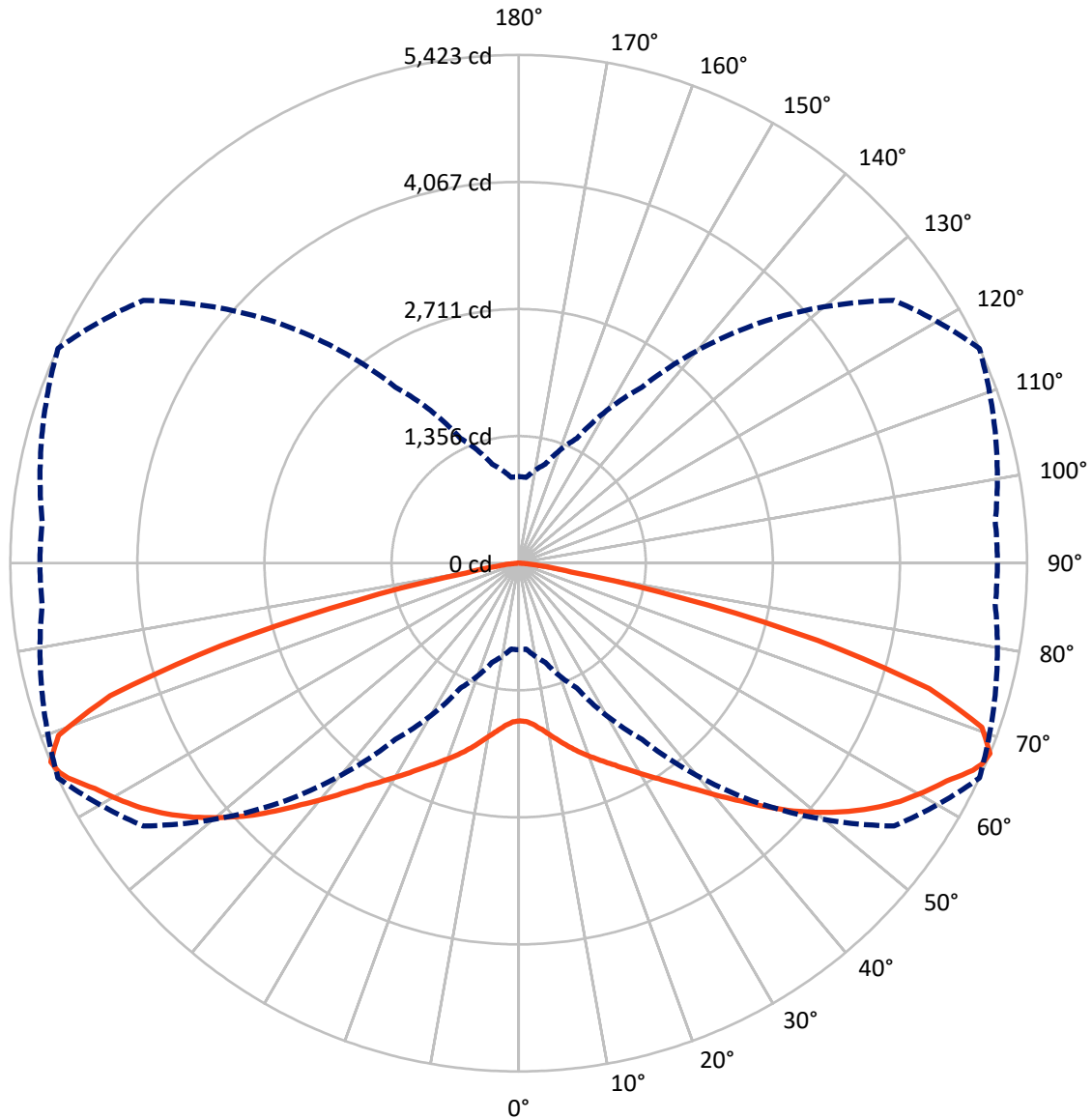
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 8025.0 | 0.0 | 8025.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 8025.0 | 0.0 | 8025.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 16050.0 | 0.0 | 16050.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 165.8 | 1.0 |
| 10°-20° | 554.9 | 3.5 |
| 20°-30° | 1085.5 | 6.8 |
| 30°-40° | 1846.2 | 11.5 |
| 40°-50° | 2922.0 | 18.2 |
| 50°-60° | 3874.6 | 24.1 |
| 60°-70° | 3654.9 | 22.8 |
| 70°-80° | 1806.8 | 11.3 |
| 80°-90° | 139.2 | 0.9 |
| 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° | 16050.0 | 100.0 |
| 0°-180° | 16050.0 | 100.0 |



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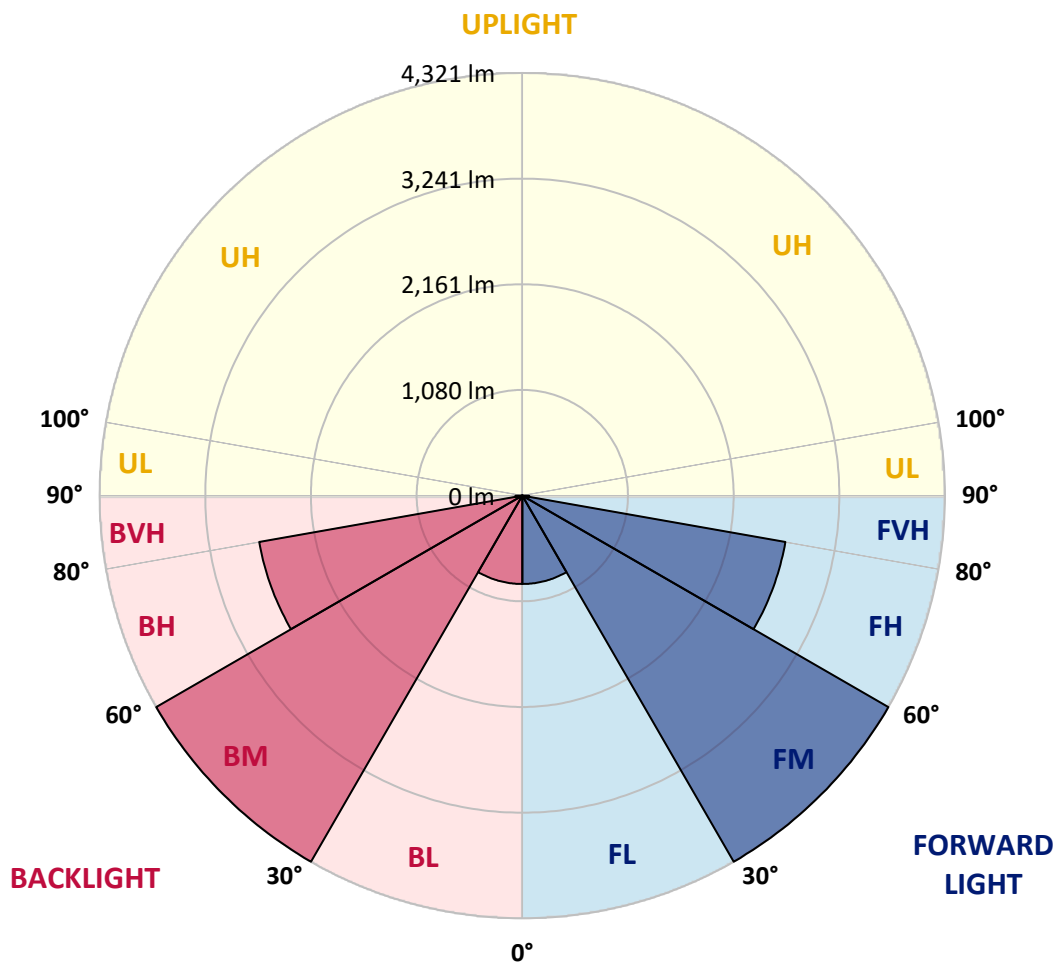
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 903.1 | 5.6 | | | |
| FM (30°-60°) | 4321.4 | 26.9 | | | |
| FH (60°-80°) | 2730.9 | 17.0 | | | G2/5000 |
| FVH (80°-90°) | 69.6 | 0.4 | | | G1/100 |
| BL (0°-30°) | 903.1 | 5.6 | B2/1000 | | |
| BM (30°-60°) | 4321.4 | 26.9 | B3/5000 | | |
| BH (60°-80°) | 2730.9 | 17.0 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 69.6 | 0.4 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4

Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 1681.1 | 1681.1 | 1681.1 | 1681.1 | 1681.1 | 1681.1 | 1681.1 | 1681.1 | 1681.1 | 1681.1 | 1681.1 |
| 2.5° | 1672.5 | 1674.2 | 1675.9 | 1678.5 | 1682.0 | 1687.1 | 1690.6 | 1693.1 | 1700.0 | 1700.9 | 1700.0 |
| 5° | 1666.5 | 1668.2 | 1672.5 | 1680.2 | 1691.4 | 1706.9 | 1718.9 | 1733.5 | 1744.7 | 1752.5 | 1750.7 |
| 7.5° | 1665.6 | 1669.1 | 1675.9 | 1692.3 | 1713.8 | 1740.4 | 1767.9 | 1792.9 | 1814.4 | 1831.6 | 1829.0 |
| 10° | 1679.4 | 1683.7 | 1694.9 | 1718.9 | 1752.5 | 1791.2 | 1829.9 | 1866.8 | 1897.8 | 1920.1 | 1927.9 |
| 12.5° | 1702.6 | 1706.0 | 1726.7 | 1762.8 | 1810.9 | 1859.1 | 1902.9 | 1948.5 | 1991.5 | 2029.4 | 2029.4 |
| 15° | 1743.0 | 1749.0 | 1774.8 | 1827.3 | 1886.6 | 1942.5 | 1987.2 | 2035.4 | 2081.8 | 2124.8 | 2137.7 |
| 17.5° | 1798.9 | 1807.5 | 1846.2 | 1913.3 | 1988.9 | 2040.5 | 2082.7 | 2122.2 | 2162.6 | 2203.9 | 2209.9 |
| 20° | 1875.4 | 1884.0 | 1935.6 | 2016.5 | 2105.9 | 2167.8 | 2196.2 | 2205.6 | 2225.4 | 2265.0 | 2270.1 |
| 22.5° | 1979.5 | 1988.1 | 2045.7 | 2136.8 | 2236.6 | 2303.7 | 2315.7 | 2293.3 | 2288.2 | 2319.1 | 2322.6 |
| 25° | 2097.3 | 2105.0 | 2171.2 | 2269.3 | 2372.5 | 2445.5 | 2442.1 | 2387.1 | 2356.1 | 2375.0 | 2380.2 |
| 27.5° | 2229.7 | 2240.9 | 2308.0 | 2409.4 | 2521.2 | 2585.7 | 2575.4 | 2495.4 | 2429.2 | 2425.8 | 2427.5 |
| 30° | 2399.1 | 2411.1 | 2474.8 | 2571.9 | 2682.0 | 2741.3 | 2719.8 | 2612.4 | 2510.0 | 2475.6 | 2475.6 |
| 32.5° | 2578.0 | 2608.1 | 2672.6 | 2774.0 | 2860.0 | 2903.0 | 2870.3 | 2741.3 | 2605.5 | 2557.3 | 2554.7 |
| 35° | 2811.0 | 2827.3 | 2891.0 | 2989.9 | 3054.3 | 3087.9 | 3025.1 | 2886.7 | 2730.2 | 2673.4 | 2665.7 |
| 37.5° | 3038.9 | 3052.6 | 3126.6 | 3221.2 | 3299.4 | 3297.7 | 3212.6 | 3059.5 | 2884.9 | 2821.3 | 2816.2 |
| 40° | 3271.9 | 3286.5 | 3370.8 | 3457.6 | 3535.9 | 3529.0 | 3425.8 | 3254.7 | 3069.0 | 2997.6 | 3011.4 |
| 42.5° | 3474.0 | 3490.3 | 3585.8 | 3709.6 | 3780.1 | 3778.4 | 3658.9 | 3466.2 | 3272.8 | 3209.1 | 3221.2 |
| 45° | 3658.0 | 3672.6 | 3783.5 | 3925.4 | 4028.6 | 4041.5 | 3910.8 | 3707.0 | 3508.4 | 3426.7 | 3430.1 |
| 47.5° | 3787.8 | 3815.4 | 3931.4 | 4094.0 | 4234.1 | 4279.7 | 4151.6 | 3952.1 | 3723.3 | 3638.2 | 3643.4 |
| 50° | 3886.7 | 3903.9 | 4030.3 | 4215.2 | 4392.3 | 4486.9 | 4383.7 | 4179.1 | 3938.3 | 3848.0 | 3860.1 |
| 52.5° | 3898.8 | 3919.4 | 4057.0 | 4270.2 | 4497.3 | 4640.9 | 4590.1 | 4400.9 | 4157.6 | 4064.7 | 4090.5 |
| 55° | 3800.7 | 3812.8 | 3977.0 | 4235.8 | 4538.5 | 4755.2 | 4768.1 | 4607.3 | 4366.5 | 4296.0 | 4313.2 |
| 57.5° | 3521.3 | 3552.2 | 3760.3 | 4075.0 | 4481.8 | 4816.3 | 4901.4 | 4794.8 | 4578.1 | 4508.4 | 4535.9 |
| 60° | 3062.9 | 3093.9 | 3302.9 | 3701.9 | 4267.7 | 4787.9 | 5011.5 | 4960.7 | 4769.8 | 4713.9 | 4728.6 |
| 62.5° | 2400.0 | 2397.4 | 2656.2 | 3145.5 | 3842.0 | 4648.6 | 5093.2 | 5120.7 | 4959.0 | 4888.5 | 4910.9 |
| 65° | 1555.6 | 1563.3 | 1813.5 | 2340.6 | 3199.7 | 4294.3 | 5111.2 | 5324.5 | 5144.8 | 5038.1 | 5054.5 |
| 66° | 1251.1 | 1274.4 | 1486.8 | 1972.6 | 2872.1 | 4062.1 | 5057.0 | 5384.7 | 5201.5 | 5072.5 | 5080.3 |
| 67.5° | 923.5 | 919.2 | 1093.8 | 1468.7 | 2293.3 | 3621.0 | 4887.6 | 5422.5 | 5266.0 | 5103.5 | 5106.9 |
| 70° | 527.1 | 526.3 | 588.2 | 806.6 | 1348.3 | 2549.6 | 4119.8 | 5241.1 | 5396.7 | 5215.3 | 5205.8 |
| 72.5° | 385.2 | 382.7 | 391.3 | 445.4 | 657.8 | 1287.3 | 2842.0 | 4580.7 | 5329.6 | 5197.2 | 5170.6 |
| 75° | 323.3 | 321.6 | 319.9 | 326.8 | 368.9 | 583.0 | 1508.3 | 3295.1 | 4624.5 | 4878.2 | 4850.7 |
| 77.5° | 264.0 | 264.0 | 264.8 | 263.1 | 264.8 | 307.0 | 625.1 | 1766.2 | 2816.2 | 3143.8 | 3220.3 |
| 80° | 206.4 | 205.5 | 220.1 | 214.1 | 200.4 | 196.9 | 276.9 | 568.4 | 934.7 | 929.5 | 767.0 |
| 82.5° | 152.2 | 141.9 | 167.7 | 163.4 | 147.9 | 125.5 | 161.7 | 242.5 | 312.1 | 202.9 | 150.5 |
| 85° | 96.3 | 95.4 | 118.7 | 108.3 | 90.3 | 59.3 | 77.4 | 104.0 | 129.0 | 78.3 | 63.6 |
| 87.5° | 17.2 | 16.3 | 37.8 | 27.5 | 27.5 | 17.2 | 21.5 | 28.4 | 42.1 | 29.2 | 21.5 |
| 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)