

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: P457499

Luminaire Tested: **GLAN-SA8D-760-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457499
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8D-760-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65193 lumens
Efficiency: N/A
Efficacy: 132.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

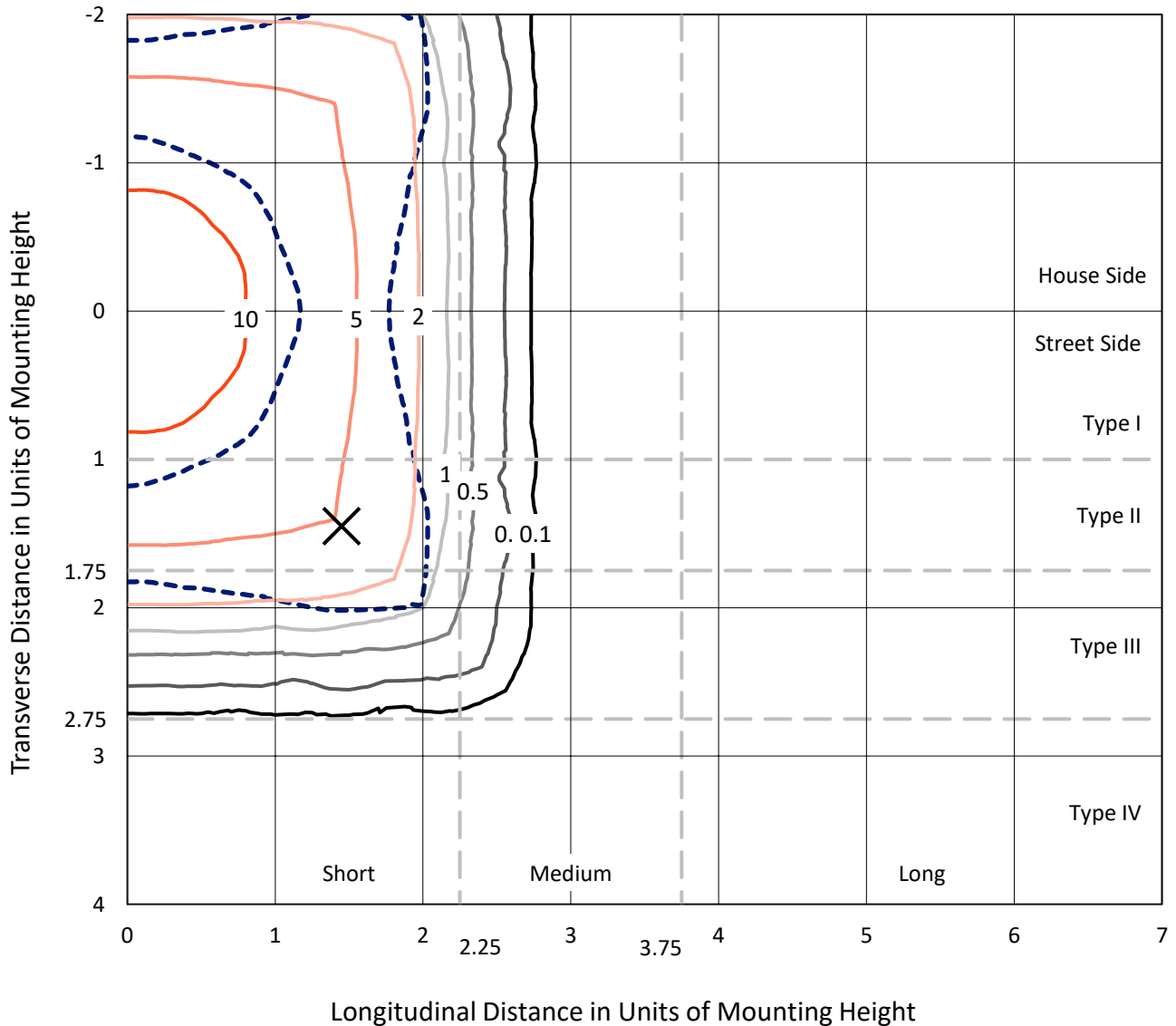
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

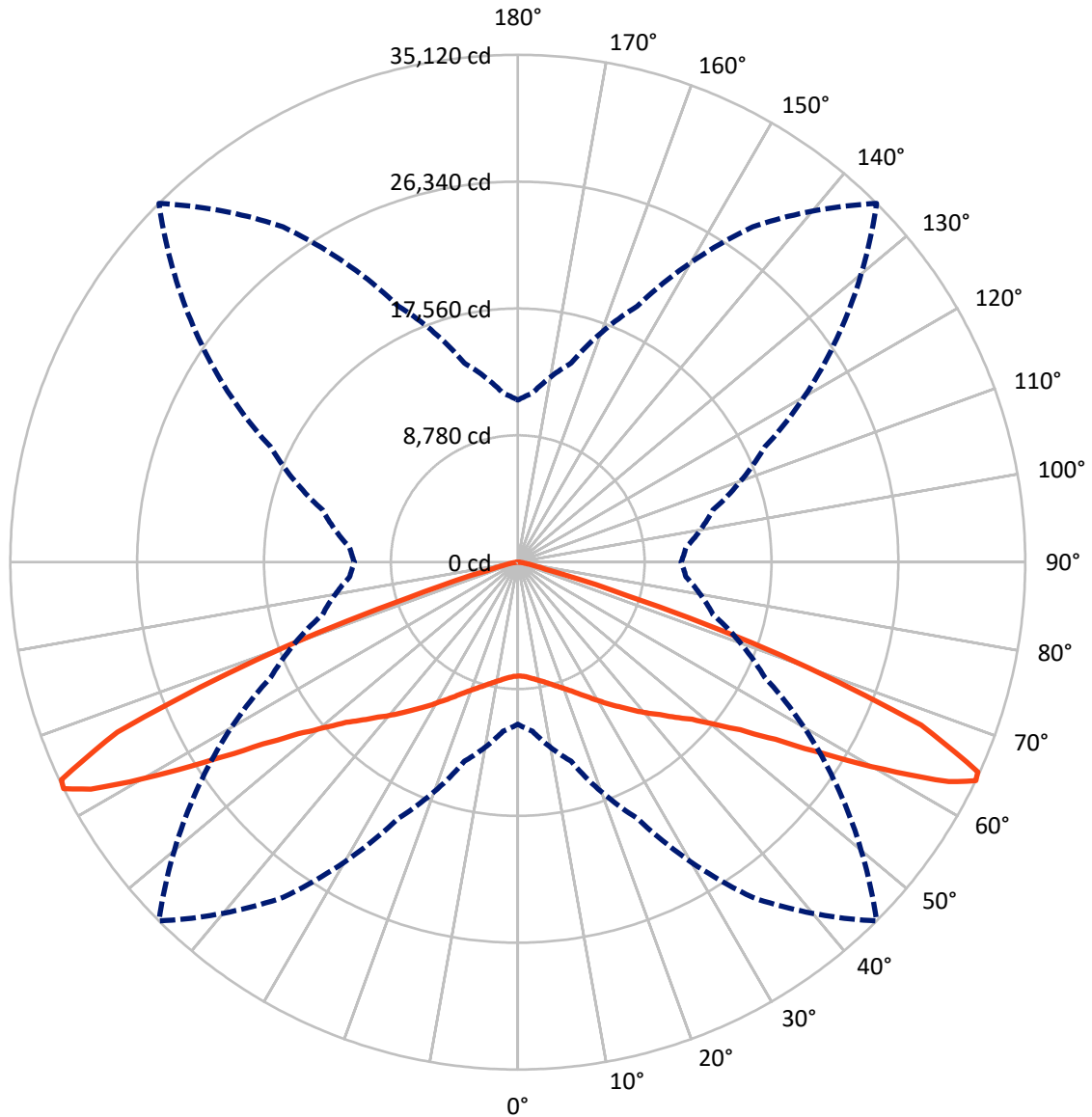
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 32596.5 | 0.0 | 32596.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 32596.5 | 0.0 | 32596.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 65193.0 | 0.0 | 65193.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 774.1 | 1.2 |
| 10°-20° | 2497.0 | 3.8 |
| 20°-30° | 4718.7 | 7.2 |
| 30°-40° | 7814.7 | 12.0 |
| 40°-50° | 12200.0 | 18.7 |
| 50°-60° | 18860.9 | 28.9 |
| 60°-70° | 16263.6 | 24.9 |
| 70°-80° | 1843.1 | 2.8 |
| 80°-90° | 220.8 | 0.3 |
| 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° | 65193.0 | 100.0 |
| 0°-180° | 65193.0 | 100.0 |

Coefficient of Utilization



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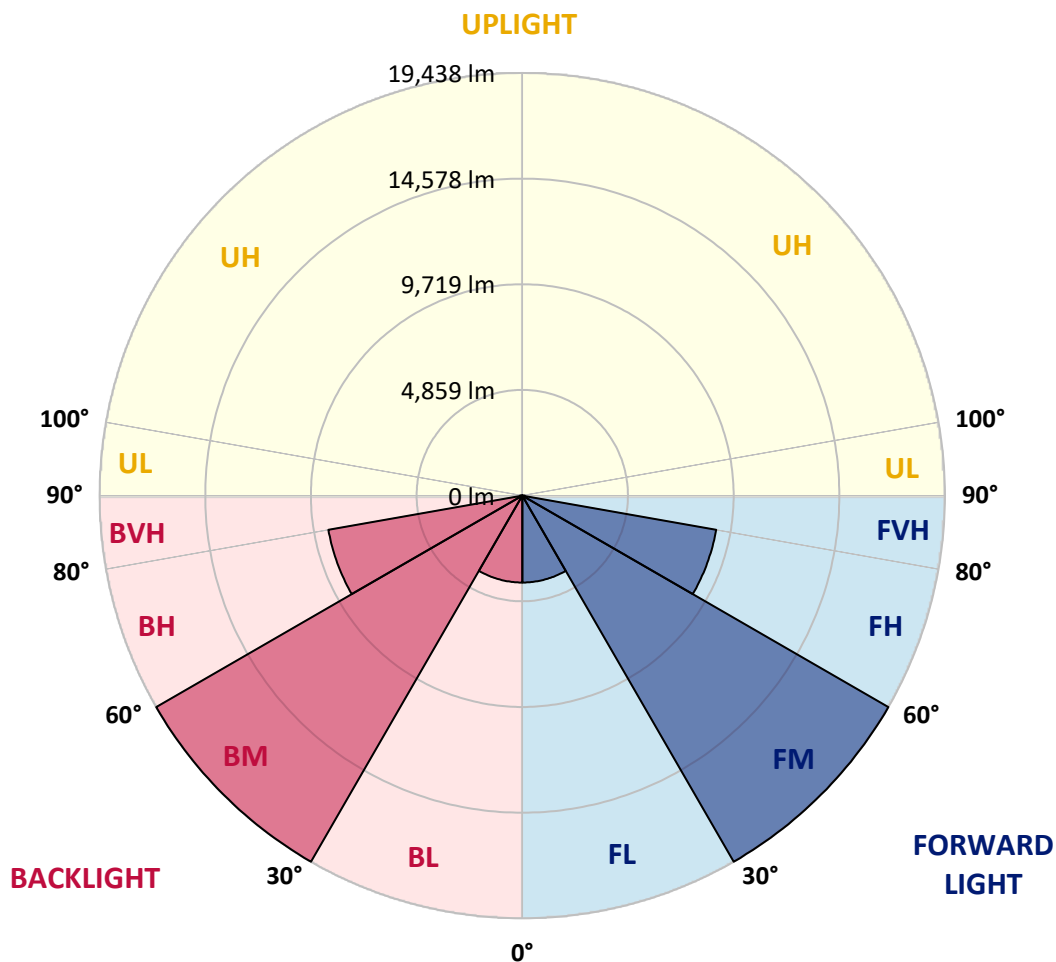
CATALOG NUMBER: GLAN-SA8D-760-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3994.9 | 6.1 | | | |
| FM | (30°-60°) | 19437.8 | 29.8 | | | |
| FH | (60°-80°) | 9053.3 | 13.9 | | | G4/12000 |
| FVH | (80°-90°) | 110.4 | 0.2 | | | G2/225 |
| BL | (0°-30°) | 3994.9 | 6.1 | B4/5000 | | |
| BM | (30°-60°) | 19437.8 | 29.8 | B5 | | |
| BH | (60°-80°) | 9053.3 | 13.9 | B5 | | G4/12000 |
| BVH | (80°-90°) | 110.4 | 0.2 | | | G2/225 |
| 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° | 7879.7 | 7879.7 | 7879.7 | 7879.7 | 7879.7 | 7879.7 | 7879.7 | 7879.7 | 7879.7 | 7879.7 | 7879.7 |
| 2.5° | 7910.7 | 7928.0 | 7914.2 | 7910.7 | 7907.3 | 7907.3 | 7907.3 | 7910.7 | 7924.6 | 7934.9 | 7928.0 |
| 5° | 8010.9 | 8024.7 | 8017.8 | 8014.3 | 8010.9 | 8014.3 | 8007.4 | 8004.0 | 8014.3 | 8014.3 | 8010.9 |
| 7.5° | 8135.2 | 8152.5 | 8145.5 | 8152.5 | 8155.9 | 8159.4 | 8142.1 | 8128.3 | 8124.8 | 8135.2 | 8128.3 |
| 10° | 8304.4 | 8318.2 | 8321.7 | 8325.1 | 8332.0 | 8328.6 | 8307.8 | 8283.7 | 8280.2 | 8276.8 | 8273.3 |
| 12.5° | 8494.3 | 8504.7 | 8508.1 | 8521.9 | 8532.3 | 8535.7 | 8511.6 | 8490.8 | 8456.3 | 8463.2 | 8449.4 |
| 15° | 8708.4 | 8729.1 | 8725.6 | 8746.4 | 8774.0 | 8780.9 | 8756.7 | 8722.2 | 8691.1 | 8673.9 | 8663.5 |
| 17.5° | 8970.8 | 8984.6 | 8977.7 | 8998.4 | 9033.0 | 9050.2 | 9029.5 | 8984.6 | 8953.5 | 8915.6 | 8894.8 |
| 20° | 9281.6 | 9305.7 | 9312.7 | 9312.7 | 9343.7 | 9361.0 | 9329.9 | 9316.1 | 9267.8 | 9240.1 | 9222.9 |
| 22.5° | 9633.8 | 9644.1 | 9664.9 | 9685.6 | 9716.6 | 9709.7 | 9699.4 | 9678.7 | 9633.8 | 9609.6 | 9582.0 |
| 25° | 10030.9 | 10041.2 | 10093.0 | 10137.9 | 10148.3 | 10141.4 | 10127.6 | 10117.2 | 10075.8 | 10020.5 | 9999.8 |
| 27.5° | 10493.6 | 10514.3 | 10583.3 | 10624.8 | 10624.8 | 10628.2 | 10600.6 | 10635.1 | 10545.4 | 10479.8 | 10472.8 |
| 30° | 11073.7 | 11087.5 | 11146.2 | 11187.6 | 11166.9 | 11149.6 | 11142.7 | 11177.3 | 11080.6 | 10963.2 | 10935.5 |
| 32.5° | 11646.9 | 11695.2 | 11747.0 | 11836.8 | 11764.3 | 11733.2 | 11726.3 | 11750.4 | 11640.0 | 11508.7 | 11470.8 |
| 35° | 12261.5 | 12296.0 | 12392.7 | 12468.7 | 12403.1 | 12330.5 | 12361.6 | 12437.6 | 12306.4 | 12130.3 | 12123.4 |
| 37.5° | 12941.7 | 12972.8 | 13097.1 | 13176.5 | 13128.2 | 13003.9 | 13055.7 | 13145.4 | 13014.2 | 12796.7 | 12751.8 |
| 40° | 13649.6 | 13715.2 | 13870.6 | 13953.4 | 13874.0 | 13708.3 | 13805.0 | 13901.6 | 13784.2 | 13532.2 | 13432.0 |
| 42.5° | 14443.8 | 14547.3 | 14771.8 | 14813.2 | 14661.3 | 14436.9 | 14606.0 | 14761.4 | 14678.6 | 14388.5 | 14350.5 |
| 45° | 15372.6 | 15434.8 | 15711.0 | 15800.8 | 15590.1 | 15310.5 | 15521.1 | 15804.2 | 15742.1 | 15407.1 | 15334.6 |
| 47.5° | 16412.0 | 16470.7 | 16757.2 | 16891.9 | 16626.0 | 16249.7 | 16629.5 | 16999.0 | 16961.0 | 16601.9 | 16567.3 |
| 50° | 17641.2 | 17655.0 | 18052.1 | 18204.0 | 17938.2 | 17613.6 | 17952.0 | 18411.2 | 18259.3 | 17800.0 | 17793.1 |
| 52.5° | 18987.9 | 19005.1 | 19505.8 | 19799.3 | 19650.8 | 19284.8 | 19685.4 | 19965.1 | 19578.3 | 18977.5 | 18932.6 |
| 55° | 20155.0 | 20241.3 | 20925.0 | 21705.3 | 21909.1 | 21643.2 | 21764.0 | 21632.8 | 20679.8 | 19837.3 | 19706.1 |
| 57.5° | 20631.5 | 20800.7 | 21840.0 | 23297.2 | 24623.1 | 25016.7 | 24084.4 | 22834.5 | 21118.3 | 19927.1 | 19799.3 |
| 60° | 19467.8 | 19650.8 | 21263.4 | 24029.2 | 27413.1 | 29122.3 | 26501.5 | 23038.2 | 20120.4 | 18445.7 | 18245.5 |
| 62.5° | 15590.1 | 15641.9 | 18014.1 | 22306.2 | 29039.5 | 33466.2 | 27520.1 | 21301.4 | 17216.5 | 14941.0 | 14861.6 |
| 64° | 11218.7 | 11750.4 | 14264.2 | 19557.6 | 28328.1 | 35120.1 | 26933.1 | 18867.0 | 13984.5 | 11681.4 | 11308.5 |
| 65° | 8390.7 | 8535.7 | 11498.4 | 16702.0 | 27074.7 | 34995.8 | 25793.7 | 16539.7 | 11581.3 | 8939.7 | 8525.4 |
| 67.5° | 3169.8 | 3187.1 | 4243.7 | 8325.1 | 19274.5 | 30109.9 | 19685.4 | 8998.4 | 4879.0 | 3528.9 | 3401.2 |
| 70° | 1315.6 | 1339.8 | 1557.3 | 2800.4 | 8283.7 | 19333.2 | 9492.2 | 3245.8 | 1785.2 | 1446.8 | 1426.1 |
| 72.5° | 963.4 | 977.2 | 1042.8 | 1243.1 | 2548.3 | 7938.4 | 3121.5 | 1377.7 | 1046.2 | 935.8 | 925.4 |
| 75° | 756.2 | 763.1 | 811.4 | 915.0 | 1187.8 | 2199.5 | 1298.3 | 946.1 | 797.6 | 718.2 | 711.3 |
| 77.5° | 576.6 | 593.9 | 628.4 | 697.5 | 797.6 | 1042.8 | 859.8 | 707.9 | 614.6 | 549.0 | 538.7 |
| 80° | 397.1 | 417.8 | 483.4 | 511.0 | 535.2 | 676.8 | 587.0 | 535.2 | 480.0 | 400.5 | 376.4 |
| 82.5° | 245.2 | 259.0 | 324.6 | 348.7 | 338.4 | 379.8 | 376.4 | 383.3 | 341.8 | 248.6 | 231.3 |
| 85° | 127.8 | 134.7 | 176.1 | 183.0 | 169.2 | 155.4 | 193.4 | 224.4 | 210.6 | 141.6 | 138.1 |
| 87.5° | 27.6 | 31.1 | 38.0 | 34.5 | 38.0 | 38.0 | 48.3 | 72.5 | 76.0 | 48.3 | 44.9 |
| 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)