

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: P458484

Luminaire Tested: **GLAN-SA9D-830-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458484
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-830-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 58449 lumens
Efficiency: N/A
Efficacy: 105.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 552
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

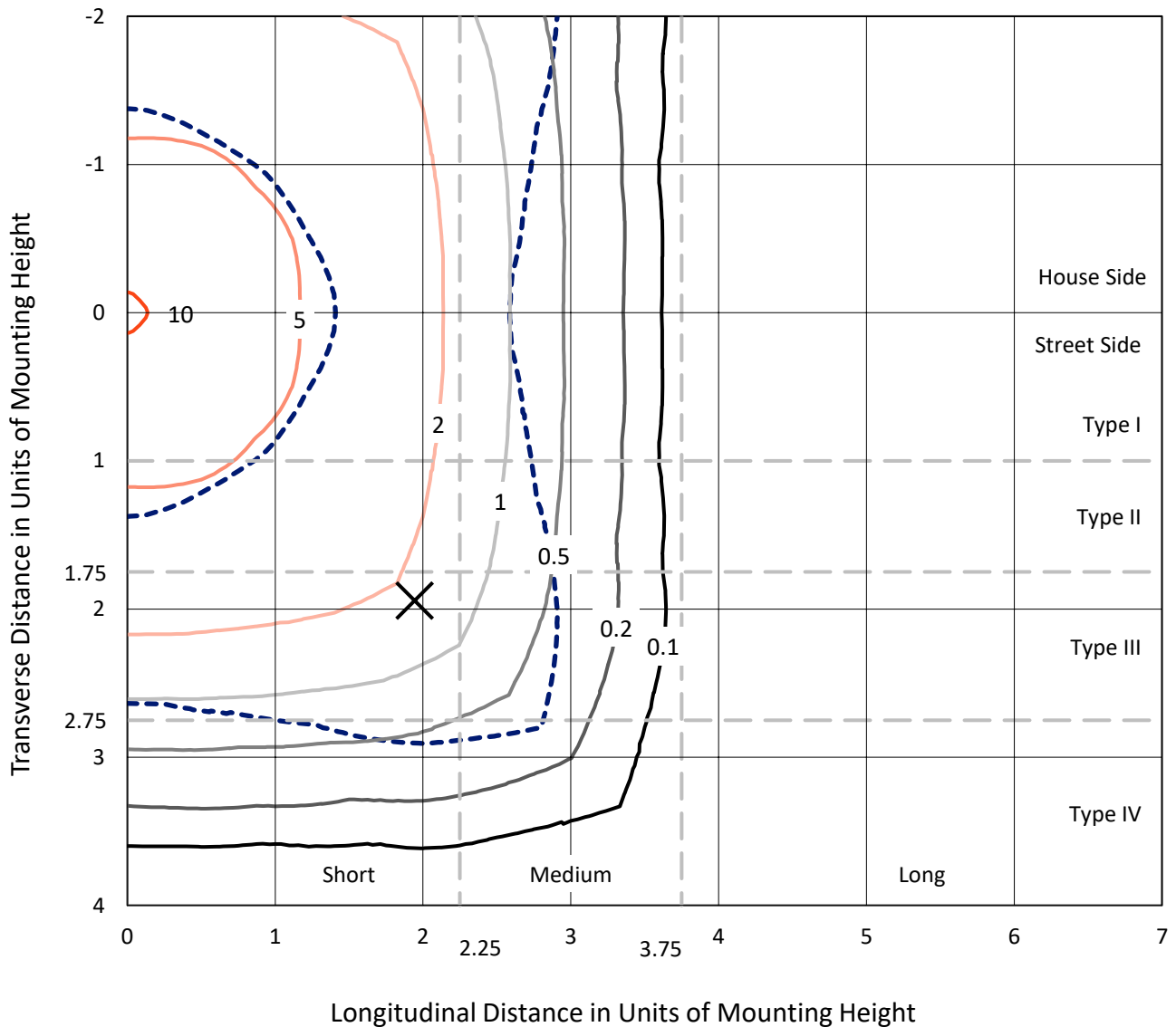




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Iso-Footcandle Lines of Horizontal Illumination

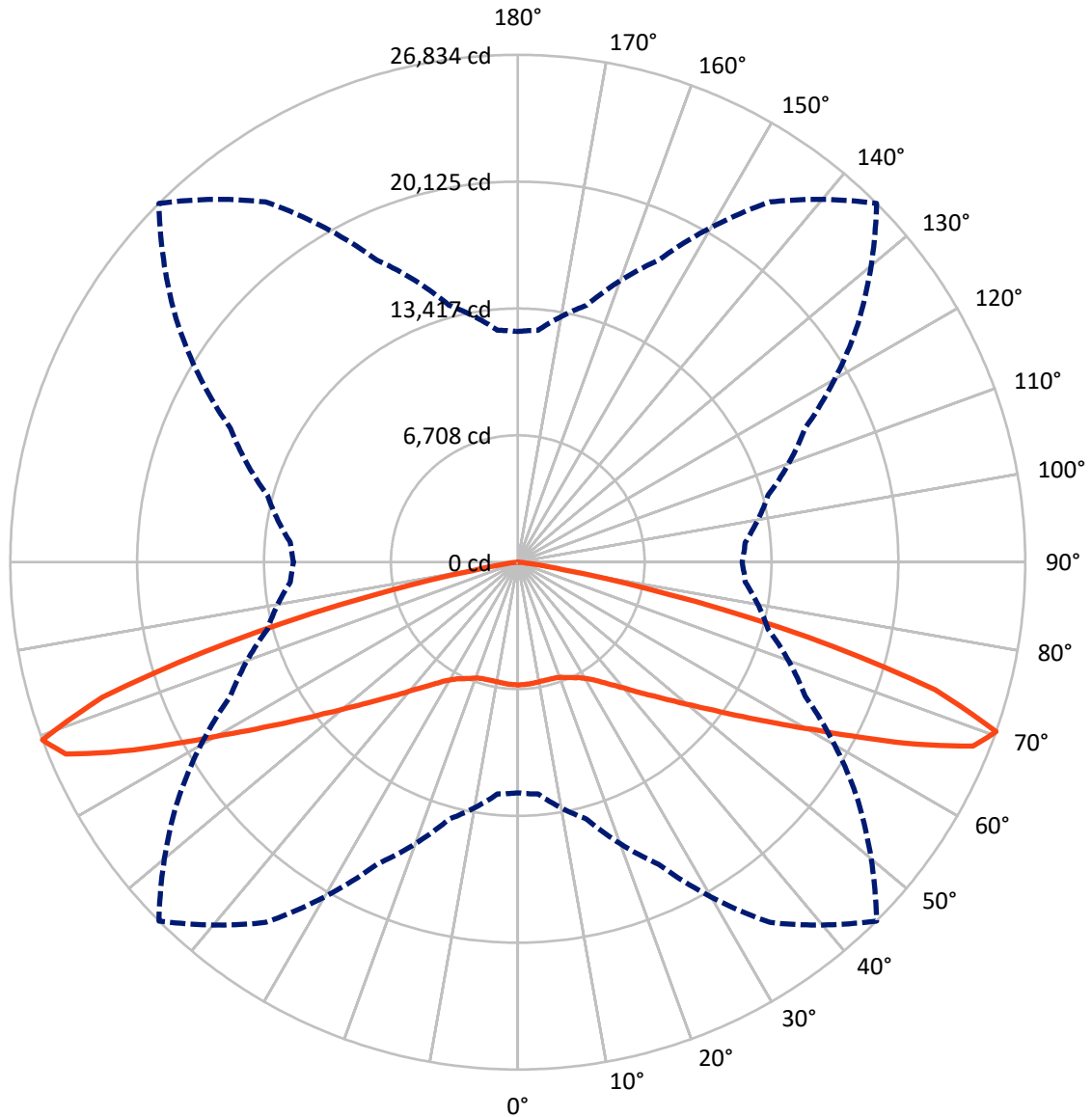
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 10.4 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 29224.5 | 0.0 | 29224.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 29224.5 | 0.0 | 29224.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 58449.0 | 0.0 | 58449.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 615.5 | 1.1 |
| 10°-20° | 1806.1 | 3.1 |
| 20°-30° | 3089.0 | 5.3 |
| 30°-40° | 4902.9 | 8.4 |
| 40°-50° | 7909.6 | 13.5 |
| 50°-60° | 12869.1 | 22.0 |
| 60°-70° | 18655.6 | 31.9 |
| 70°-80° | 8274.9 | 14.2 |
| 80°-90° | 326.4 | 0.6 |
| 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° | 58449.0 | 100.0 |
| 0°-180° | 58449.0 | 100.0 |

Coefficient of Utilization



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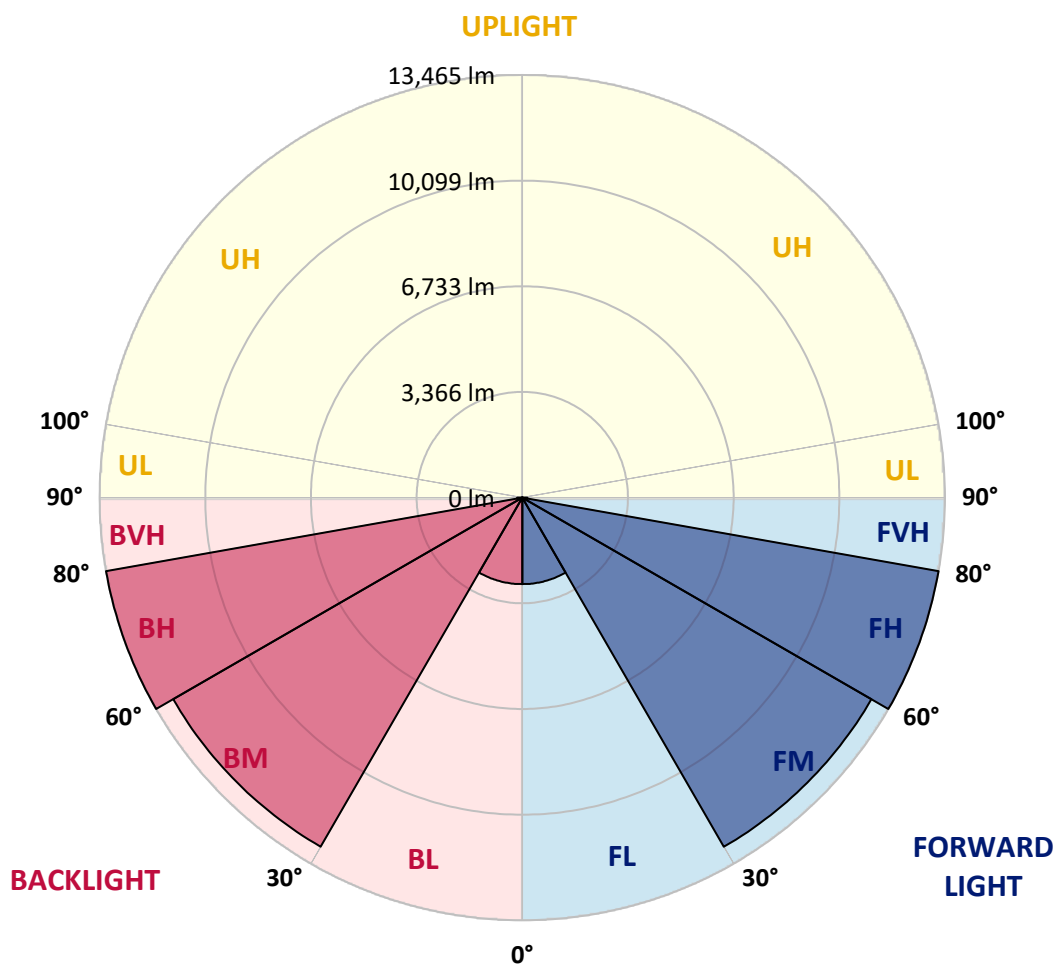
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|--------|
| | | | B | U | G |
| FL (0°-30°) | 2755.3 | 4.7 | | | |
| FM (30°-60°) | 12840.8 | 22.0 | | | |
| FH (60°-80°) | 13465.2 | 23.0 | | | G5 |
| FVH (80°-90°) | 163.2 | 0.3 | | | G2/225 |
| BL (0°-30°) | 2755.3 | 4.7 | B4/5000 | | |
| BM (30°-60°) | 12840.8 | 22.0 | B5 | | |
| BH (60°-80°) | 13465.2 | 23.0 | B5 | | G5 |
| BVH (80°-90°) | 163.2 | 0.3 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 6490.5 | 6490.5 | 6490.5 | 6490.5 | 6490.5 | 6490.5 | 6490.5 | 6490.5 | 6490.5 | 6490.5 | 6490.5 |
| 2.5° | 6490.5 | 6496.6 | 6487.4 | 6481.2 | 6478.2 | 6478.2 | 6475.1 | 6478.2 | 6496.6 | 6499.7 | 6490.5 |
| 5° | 6472.0 | 6478.2 | 6475.1 | 6468.9 | 6465.8 | 6465.8 | 6462.8 | 6459.7 | 6475.1 | 6481.2 | 6478.2 |
| 7.5° | 6447.4 | 6450.4 | 6447.4 | 6444.3 | 6447.4 | 6444.3 | 6435.0 | 6428.9 | 6441.2 | 6441.2 | 6438.1 |
| 10° | 6404.2 | 6410.4 | 6407.3 | 6410.4 | 6416.6 | 6416.6 | 6404.2 | 6391.9 | 6395.0 | 6388.8 | 6388.8 |
| 12.5° | 6351.9 | 6361.1 | 6364.2 | 6376.5 | 6391.9 | 6410.4 | 6382.7 | 6354.9 | 6348.8 | 6345.7 | 6342.6 |
| 15° | 6318.0 | 6327.2 | 6339.5 | 6351.9 | 6379.6 | 6419.6 | 6379.6 | 6336.5 | 6324.1 | 6311.8 | 6305.7 |
| 17.5° | 6308.7 | 6321.1 | 6339.5 | 6358.0 | 6395.0 | 6435.0 | 6401.2 | 6358.0 | 6327.2 | 6308.7 | 6302.6 |
| 20° | 6333.4 | 6342.6 | 6370.3 | 6404.2 | 6456.6 | 6496.6 | 6462.8 | 6416.6 | 6370.3 | 6342.6 | 6333.4 |
| 22.5° | 6382.7 | 6398.1 | 6432.0 | 6493.6 | 6567.5 | 6626.0 | 6579.8 | 6502.8 | 6428.9 | 6391.9 | 6379.6 |
| 25° | 6490.5 | 6502.8 | 6542.9 | 6626.0 | 6712.3 | 6767.7 | 6718.4 | 6629.1 | 6527.5 | 6478.2 | 6462.8 |
| 27.5° | 6653.7 | 6672.2 | 6715.4 | 6813.9 | 6884.8 | 6915.6 | 6881.7 | 6820.1 | 6746.2 | 6693.8 | 6681.5 |
| 30° | 6884.8 | 6906.3 | 6971.0 | 7075.8 | 7122.0 | 7140.5 | 7125.1 | 7085.0 | 7032.6 | 6977.2 | 6964.9 |
| 32.5° | 7195.9 | 7208.2 | 7282.2 | 7380.7 | 7423.9 | 7430.0 | 7411.5 | 7393.1 | 7306.8 | 7214.4 | 7208.2 |
| 35° | 7544.0 | 7565.6 | 7654.9 | 7771.9 | 7812.0 | 7815.1 | 7778.1 | 7750.4 | 7648.7 | 7574.8 | 7574.8 |
| 37.5° | 8006.1 | 8015.3 | 8101.6 | 8234.0 | 8277.1 | 8264.8 | 8246.3 | 8221.7 | 8113.9 | 8018.4 | 8021.5 |
| 40° | 8548.2 | 8566.7 | 8640.6 | 8794.7 | 8794.7 | 8779.3 | 8791.6 | 8773.1 | 8665.3 | 8572.9 | 8575.9 |
| 42.5° | 9192.0 | 9201.3 | 9290.6 | 9453.9 | 9441.5 | 9410.7 | 9423.1 | 9398.4 | 9330.7 | 9225.9 | 9189.0 |
| 45° | 9879.0 | 9915.9 | 10070.0 | 10227.1 | 10202.4 | 10103.8 | 10153.1 | 10147.0 | 10085.4 | 9928.3 | 9937.5 |
| 47.5° | 10707.6 | 10769.2 | 10917.1 | 11105.0 | 11077.3 | 10923.2 | 10978.7 | 11015.7 | 10929.4 | 10756.9 | 10726.1 |
| 50° | 11641.0 | 11681.0 | 11899.7 | 12075.3 | 12050.7 | 11887.4 | 12013.7 | 12019.9 | 11804.2 | 11560.9 | 11560.9 |
| 52.5° | 12636.0 | 12676.0 | 12971.7 | 13245.9 | 13261.3 | 13024.1 | 13125.8 | 13119.6 | 12768.4 | 12448.1 | 12386.4 |
| 55° | 13751.1 | 13769.6 | 14151.5 | 14555.1 | 14641.3 | 14410.3 | 14422.6 | 14299.4 | 13843.5 | 13470.8 | 13436.9 |
| 57.5° | 14903.2 | 14970.9 | 15393.0 | 15916.6 | 16172.3 | 16030.6 | 15965.9 | 15636.3 | 15195.8 | 14767.6 | 14746.1 |
| 60° | 16178.5 | 16181.5 | 16729.9 | 17349.0 | 17866.5 | 17962.0 | 17697.1 | 17256.6 | 16686.7 | 16119.9 | 16095.3 |
| 62.5° | 17062.6 | 17195.0 | 17888.1 | 18935.5 | 19862.7 | 20398.7 | 19699.4 | 18775.3 | 17654.0 | 16739.1 | 16646.7 |
| 65° | 17244.3 | 17333.6 | 18390.2 | 20164.6 | 22059.0 | 23214.2 | 21597.0 | 19631.6 | 17718.7 | 16498.8 | 16437.2 |
| 67.5° | 15774.9 | 15870.4 | 17293.6 | 20016.7 | 23599.2 | 25968.1 | 22829.1 | 19218.9 | 16622.1 | 15112.6 | 14992.5 |
| 70° | 12201.6 | 12309.4 | 14068.4 | 17620.1 | 23257.3 | 26833.7 | 21951.2 | 16763.8 | 13708.0 | 12078.4 | 11859.7 |
| 72.5° | 6487.4 | 6884.8 | 8388.0 | 12093.8 | 18876.9 | 23103.3 | 17999.0 | 12232.4 | 8840.9 | 7226.7 | 6937.1 |
| 75° | 2368.9 | 2418.1 | 3256.0 | 5363.0 | 10981.8 | 15842.7 | 11403.8 | 5834.4 | 3354.6 | 2590.6 | 2458.2 |
| 77.5° | 979.6 | 976.5 | 1072.0 | 1620.3 | 3989.2 | 8113.9 | 4451.2 | 1712.7 | 1068.9 | 988.8 | 976.5 |
| 80° | 579.1 | 579.1 | 637.7 | 674.6 | 1050.4 | 2448.9 | 1173.6 | 763.9 | 640.7 | 585.3 | 594.5 |
| 82.5° | 258.8 | 274.2 | 403.5 | 425.1 | 508.3 | 671.5 | 566.8 | 486.7 | 418.9 | 289.6 | 261.8 |
| 85° | 141.7 | 123.2 | 212.6 | 221.8 | 243.4 | 249.5 | 268.0 | 264.9 | 243.4 | 141.7 | 144.8 |
| 87.5° | 27.7 | 33.9 | 61.6 | 46.2 | 52.4 | 46.2 | 61.6 | 86.3 | 89.3 | 49.3 | 40.0 |
| 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)