

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: McGRAW-EDISON

Report Number: P652548

Luminaire Tested: **GALN-SA8B-840-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P652548
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: McGRAW-EDISON
Catalog Number: GALN-SA8B-840-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 80 CRI, 4000K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 39869.3 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type III - Short
BUG Rating: B5 - U0 - G5

Input Watts (W): 325
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

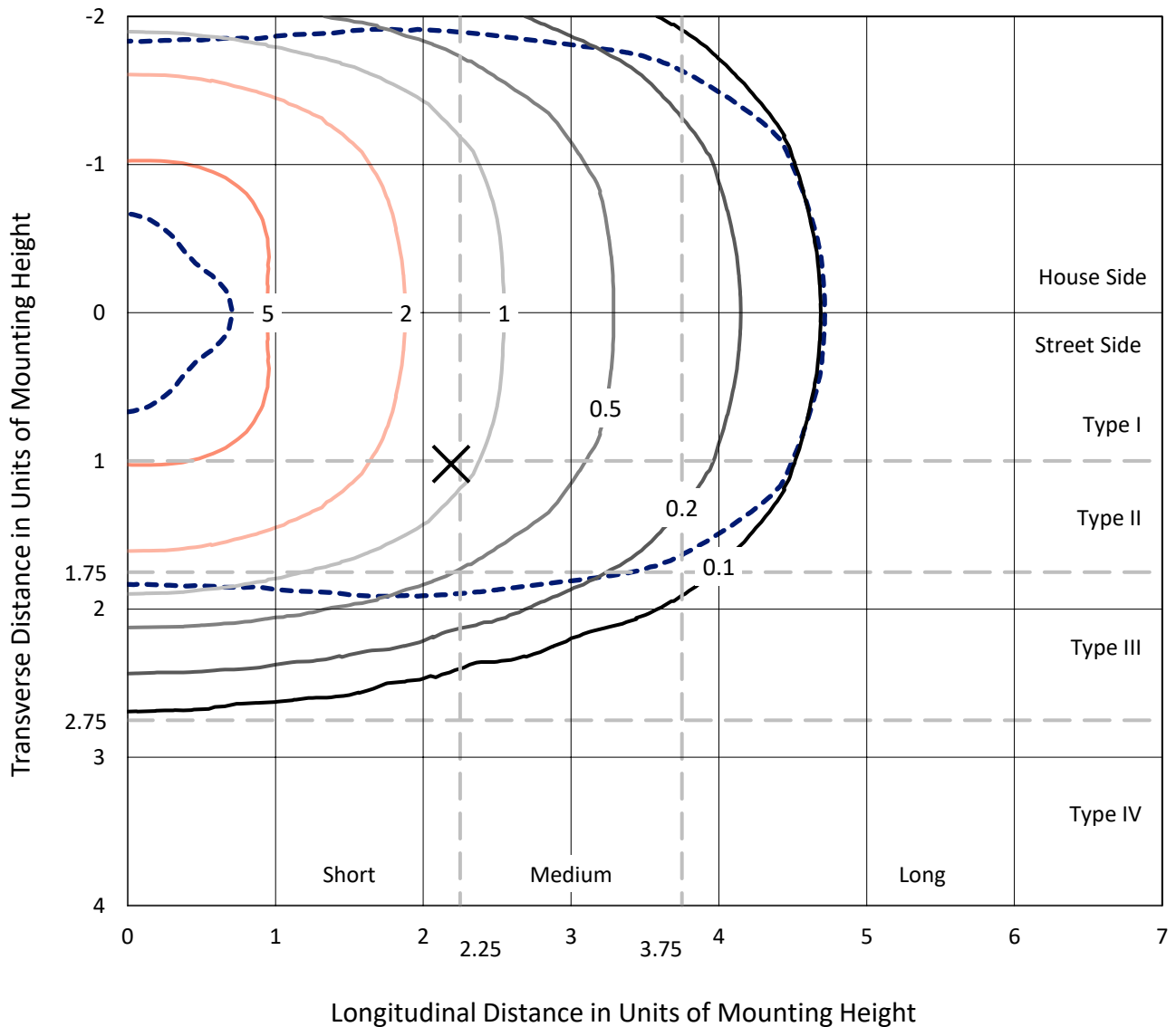




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Iso-Footcandle Lines of Horizontal Illumination

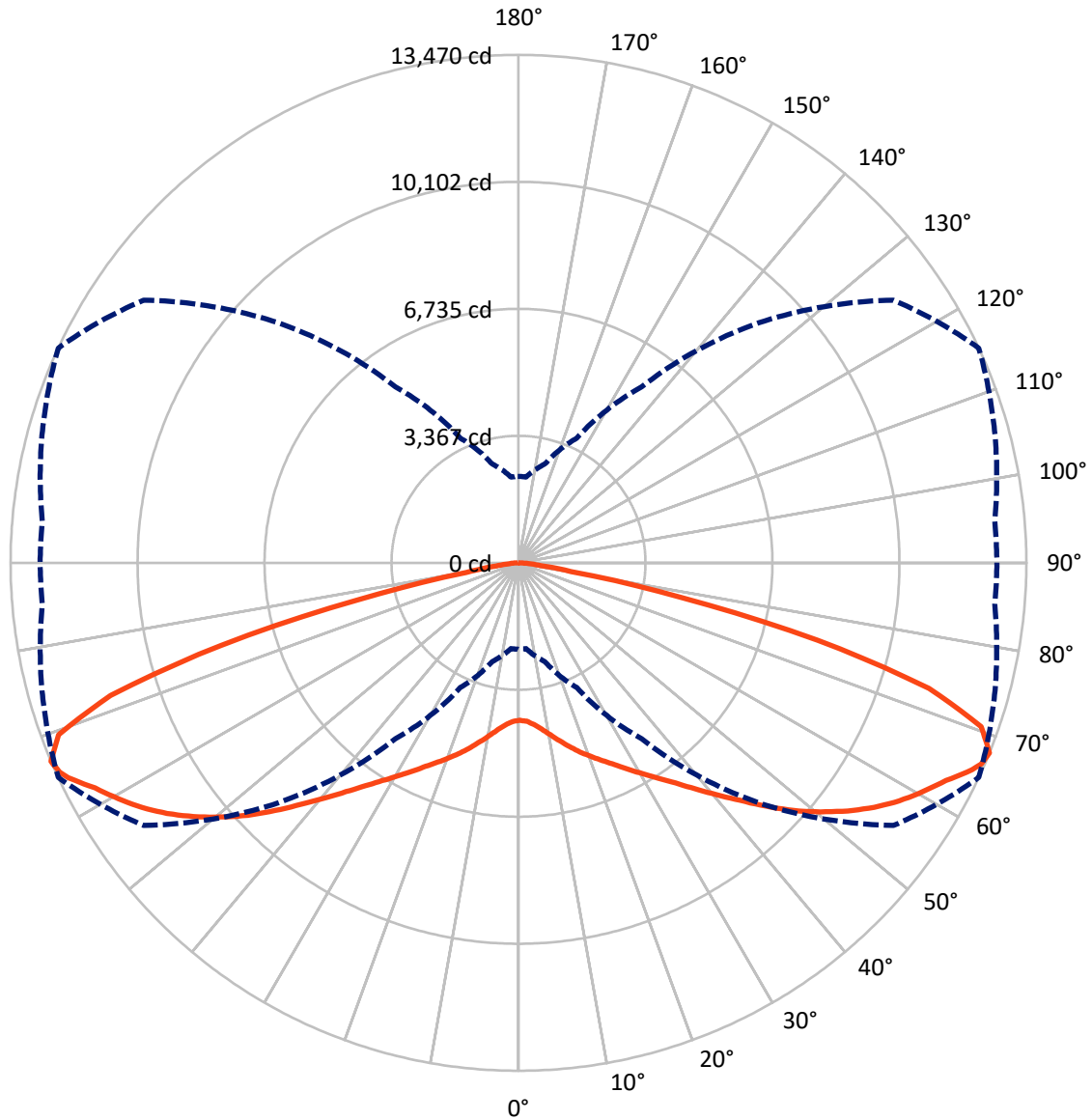
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.6 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 | 19934.6 | 0.0 | 19934.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19934.6 | 0.0 | 19934.6 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 39869.3 | 0.0 | 39869.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 411.9 | 1.0 |
| 10°-20° | 1378.5 | 3.5 |
| 20°-30° | 2696.4 | 6.8 |
| 30°-40° | 4586.2 | 11.5 |
| 40°-50° | 7258.5 | 18.2 |
| 50°-60° | 9624.7 | 24.1 |
| 60°-70° | 9079.0 | 22.8 |
| 70°-80° | 4488.2 | 11.3 |
| 80°-90° | 345.9 | 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° | 39869.3 | 100.0 |
| 0°-180° | 39869.3 | 100.0 |



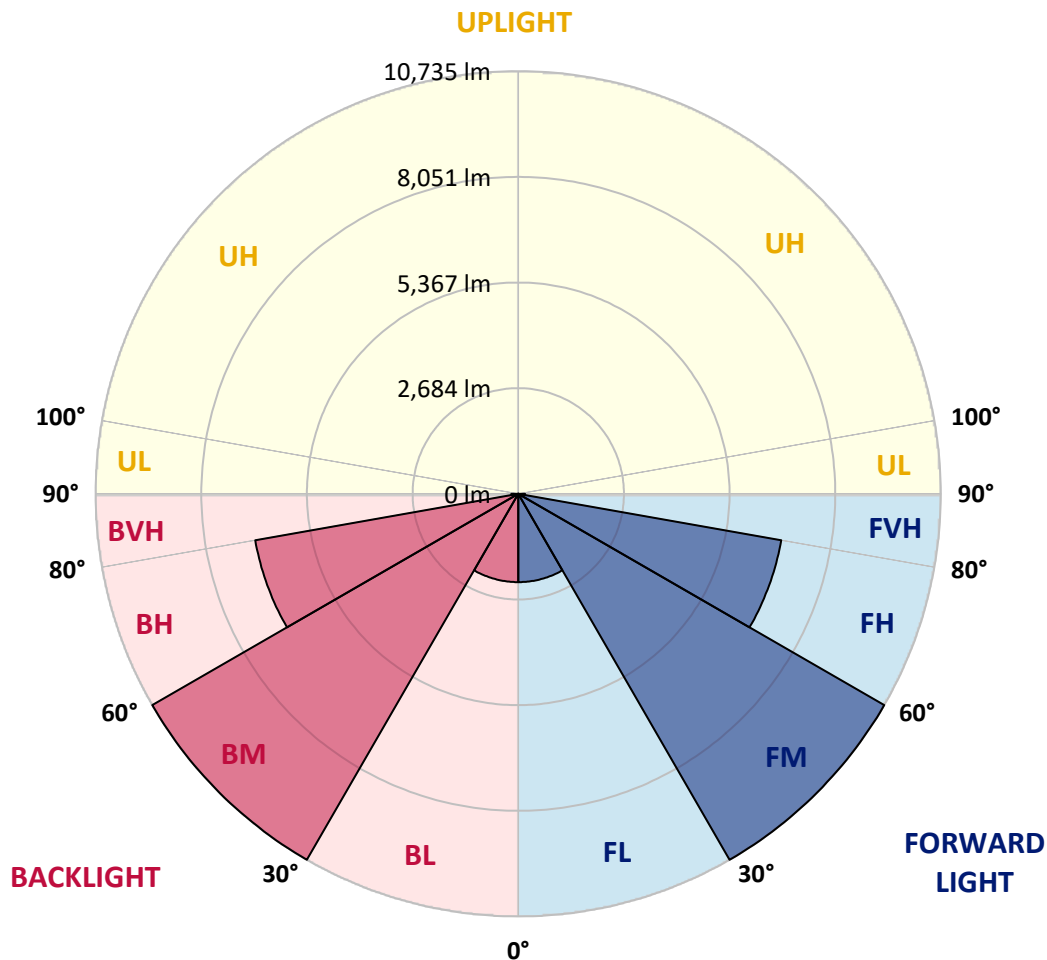
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2243.4 | 5.6 | | | |
| FM (30°-60°) | 10734.7 | 26.9 | | | |
| FH (60°-80°) | 6783.6 | 17.0 | | | G3/7500 |
| FVH (80°-90°) | 172.9 | 0.4 | | | G2/225 |
| BL (0°-30°) | 2243.4 | 5.6 | B3/2500 | | |
| BM (30°-60°) | 10734.7 | 26.9 | B5 | | |
| BH (60°-80°) | 6783.6 | 17.0 | B5 | | G5 |
| BVH (80°-90°) | 172.9 | 0.4 | | | 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 III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4176.0 | 4176.0 | 4176.0 | 4176.0 | 4176.0 | 4176.0 | 4176.0 | 4176.0 | 4176.0 | 4176.0 | 4176.0 |
| 2.5° | 4154.6 | 4158.8 | 4163.1 | 4169.5 | 4178.1 | 4190.9 | 4199.4 | 4205.8 | 4222.9 | 4225.1 | 4222.9 |
| 5° | 4139.7 | 4143.9 | 4154.6 | 4173.8 | 4201.6 | 4240.1 | 4269.9 | 4306.3 | 4334.0 | 4353.3 | 4349.0 |
| 7.5° | 4137.5 | 4146.0 | 4163.1 | 4203.7 | 4257.1 | 4323.3 | 4391.7 | 4453.6 | 4507.0 | 4549.7 | 4543.3 |
| 10° | 4171.7 | 4182.4 | 4210.1 | 4269.9 | 4353.3 | 4449.4 | 4545.5 | 4637.4 | 4714.2 | 4769.8 | 4789.0 |
| 12.5° | 4229.4 | 4237.9 | 4289.2 | 4378.9 | 4498.5 | 4618.1 | 4727.1 | 4840.3 | 4947.1 | 5041.0 | 5041.0 |
| 15° | 4329.7 | 4344.7 | 4408.8 | 4539.0 | 4686.5 | 4825.3 | 4936.4 | 5056.0 | 5171.3 | 5278.1 | 5310.2 |
| 17.5° | 4468.6 | 4489.9 | 4586.1 | 4752.7 | 4940.6 | 5068.8 | 5173.5 | 5271.7 | 5372.1 | 5474.7 | 5489.6 |
| 20° | 4658.7 | 4680.1 | 4808.2 | 5009.0 | 5231.2 | 5384.9 | 5455.5 | 5478.9 | 5528.1 | 5626.3 | 5639.2 |
| 22.5° | 4917.2 | 4938.5 | 5081.7 | 5308.1 | 5555.8 | 5722.4 | 5752.4 | 5696.8 | 5684.0 | 5760.9 | 5769.4 |
| 25° | 5209.8 | 5229.0 | 5393.5 | 5637.0 | 5893.3 | 6074.9 | 6066.4 | 5929.6 | 5852.8 | 5899.7 | 5912.6 |
| 27.5° | 5538.7 | 5566.5 | 5733.1 | 5985.1 | 6262.8 | 6423.1 | 6397.4 | 6198.8 | 6034.3 | 6025.8 | 6030.1 |
| 30° | 5959.6 | 5989.4 | 6147.5 | 6388.9 | 6662.3 | 6809.7 | 6756.3 | 6489.3 | 6235.1 | 6149.6 | 6149.6 |
| 32.5° | 6403.9 | 6478.6 | 6638.8 | 6890.9 | 7104.4 | 7211.2 | 7130.1 | 6809.7 | 6472.2 | 6352.6 | 6346.2 |
| 35° | 6982.7 | 7023.3 | 7181.4 | 7427.0 | 7587.2 | 7670.5 | 7514.6 | 7170.7 | 6781.9 | 6641.0 | 6621.7 |
| 37.5° | 7548.7 | 7583.0 | 7766.6 | 8001.6 | 8196.0 | 8191.7 | 7980.2 | 7600.0 | 7166.4 | 7008.3 | 6995.5 |
| 40° | 8127.6 | 8163.9 | 8373.2 | 8589.0 | 8783.4 | 8766.3 | 8510.0 | 8084.9 | 7623.5 | 7446.2 | 7480.4 |
| 42.5° | 8629.6 | 8670.2 | 8907.3 | 9214.8 | 9390.0 | 9385.7 | 9088.9 | 8610.4 | 8129.8 | 7971.7 | 8001.6 |
| 45° | 9086.7 | 9123.0 | 9398.6 | 9751.1 | 10007.3 | 10039.4 | 9714.7 | 9208.4 | 8715.0 | 8512.1 | 8520.7 |
| 47.5° | 9409.3 | 9477.6 | 9765.9 | 10169.7 | 10517.9 | 10631.1 | 10312.8 | 9817.2 | 9249.1 | 9037.6 | 9050.4 |
| 50° | 9654.9 | 9697.7 | 10011.6 | 10470.9 | 10910.9 | 11145.9 | 10889.5 | 10381.1 | 9783.0 | 9558.8 | 9588.7 |
| 52.5° | 9684.8 | 9736.1 | 10077.9 | 10607.5 | 11171.5 | 11528.2 | 11402.2 | 10932.2 | 10327.7 | 10097.0 | 10161.1 |
| 55° | 9441.3 | 9471.2 | 9879.1 | 10522.1 | 11274.0 | 11812.3 | 11844.3 | 11444.9 | 10846.8 | 10671.6 | 10714.3 |
| 57.5° | 8747.1 | 8823.9 | 9340.9 | 10122.7 | 11133.1 | 11964.0 | 12175.4 | 11910.6 | 11372.3 | 11199.3 | 11267.6 |
| 60° | 7608.6 | 7685.5 | 8204.5 | 9195.7 | 10601.1 | 11893.5 | 12448.8 | 12322.8 | 11848.6 | 11709.7 | 11746.1 |
| 62.5° | 5961.7 | 5955.3 | 6598.2 | 7813.6 | 9543.8 | 11547.4 | 12651.8 | 12720.1 | 12318.5 | 12143.4 | 12199.0 |
| 65° | 3864.1 | 3883.3 | 4504.9 | 5814.3 | 7948.2 | 10667.4 | 12696.6 | 13226.3 | 12779.9 | 12515.1 | 12555.6 |
| 66° | 3107.9 | 3165.6 | 3693.3 | 4900.1 | 7134.4 | 10090.7 | 12562.0 | 13375.9 | 12920.9 | 12600.5 | 12619.7 |
| 67.5° | 2294.1 | 2283.4 | 2717.0 | 3648.3 | 5696.8 | 8994.8 | 12141.3 | 13469.9 | 13081.1 | 12677.4 | 12685.9 |
| 70° | 1309.4 | 1307.3 | 1461.1 | 2003.6 | 3349.3 | 6333.3 | 10233.8 | 13019.2 | 13405.8 | 12955.1 | 12931.6 |
| 72.5° | 957.0 | 950.5 | 971.9 | 1106.5 | 1634.1 | 3197.7 | 7059.6 | 11378.6 | 13239.2 | 12910.2 | 12844.0 |
| 75° | 803.2 | 798.9 | 794.6 | 811.7 | 916.4 | 1448.2 | 3746.6 | 8185.3 | 11487.6 | 12117.7 | 12049.4 |
| 77.5° | 655.7 | 655.7 | 657.9 | 653.6 | 657.9 | 762.5 | 1552.9 | 4387.4 | 6995.5 | 7809.4 | 7999.4 |
| 80° | 512.7 | 510.5 | 546.8 | 531.8 | 497.7 | 489.1 | 687.8 | 1412.0 | 2321.8 | 2309.0 | 1905.4 |
| 82.5° | 378.1 | 352.5 | 416.5 | 405.9 | 367.4 | 311.8 | 401.6 | 602.3 | 775.4 | 504.1 | 373.8 |
| 85° | 239.3 | 237.1 | 294.8 | 269.1 | 224.3 | 147.4 | 192.3 | 258.4 | 320.4 | 194.4 | 158.1 |
| 87.5° | 42.7 | 40.6 | 94.0 | 68.4 | 68.4 | 42.7 | 53.4 | 70.5 | 104.7 | 72.7 | 53.4 |
| 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)