

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: P457358

Luminaire Tested: **GALN-SA8D-722-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457358
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-SA8D-722-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47379 lumens
Efficiency: N/A
Efficacy: 96.1 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

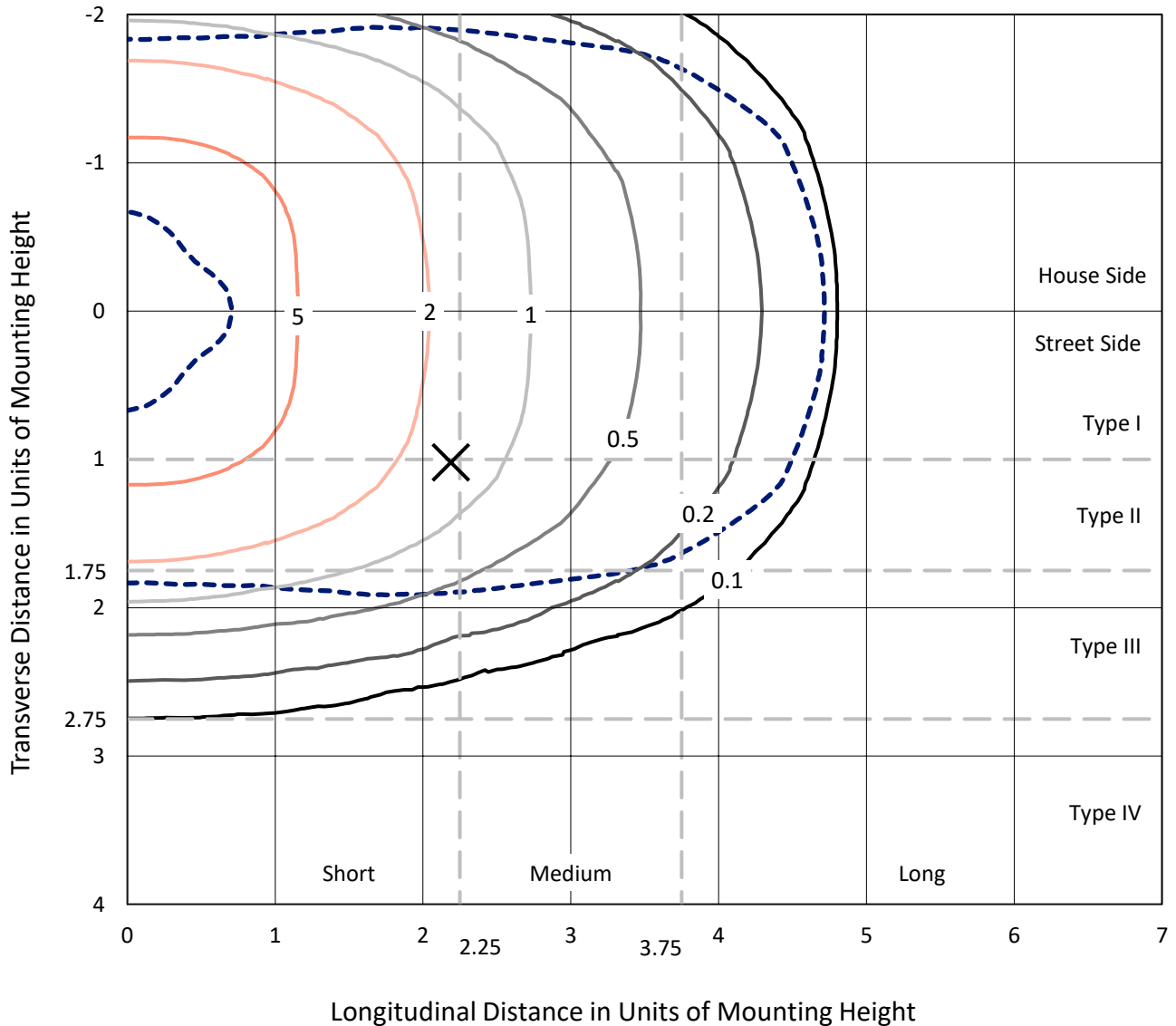
Input Watts (W): 493
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

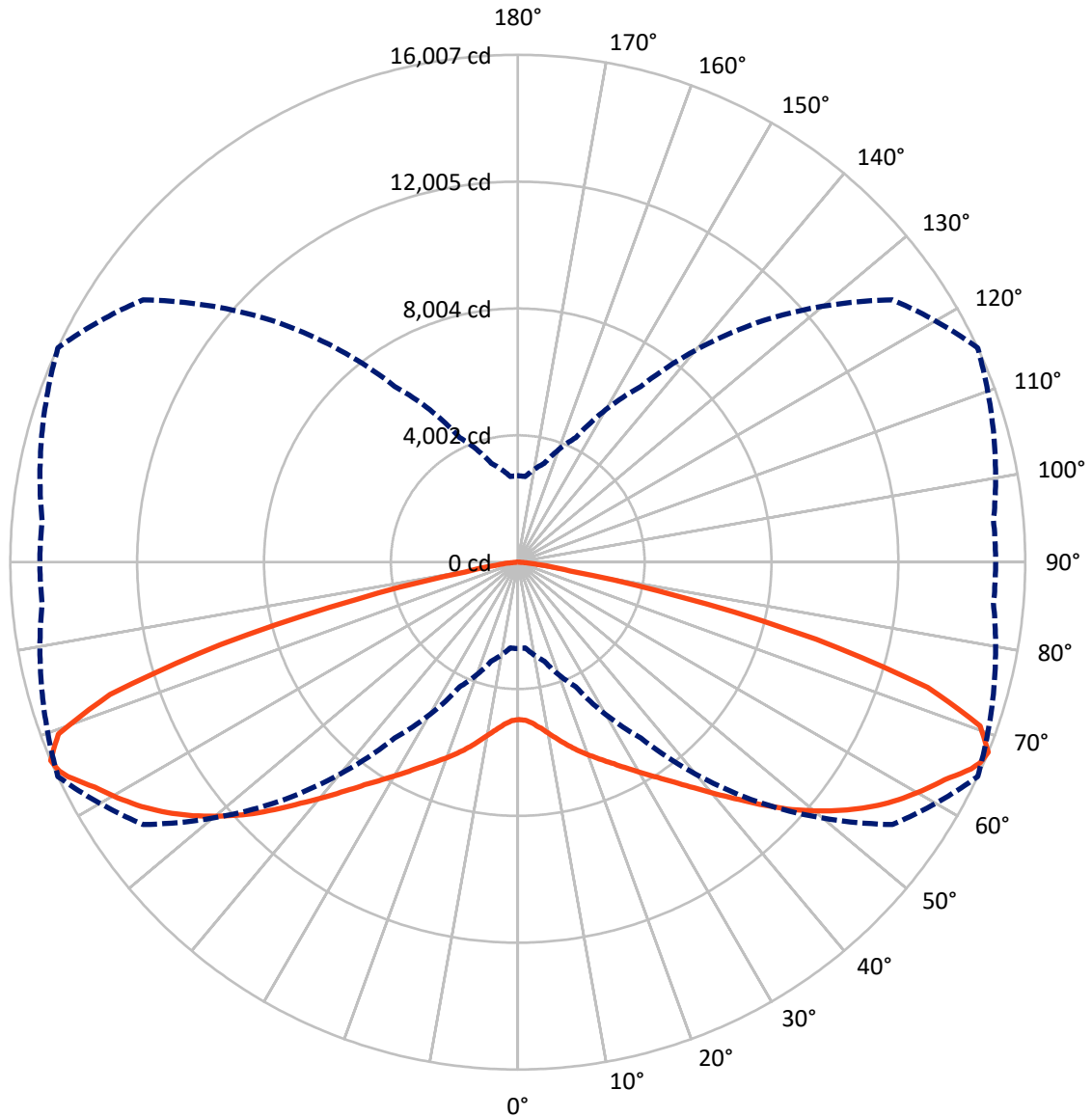
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9 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 | 23689.5 | 0.0 | 23689.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 23689.5 | 0.0 | 23689.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 47379.0 | 0.0 | 47379.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 489.4 | 1.0 |
| 10°-20° | 1638.1 | 3.5 |
| 20°-30° | 3204.3 | 6.8 |
| 30°-40° | 5450.0 | 11.5 |
| 40°-50° | 8625.8 | 18.2 |
| 50°-60° | 11437.6 | 24.1 |
| 60°-70° | 10789.2 | 22.8 |
| 70°-80° | 5333.6 | 11.3 |
| 80°-90° | 411.0 | 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° | 47379.0 | 100.0 |
| 0°-180° | 47379.0 | 100.0 |



REPORT NUMBER: P457358

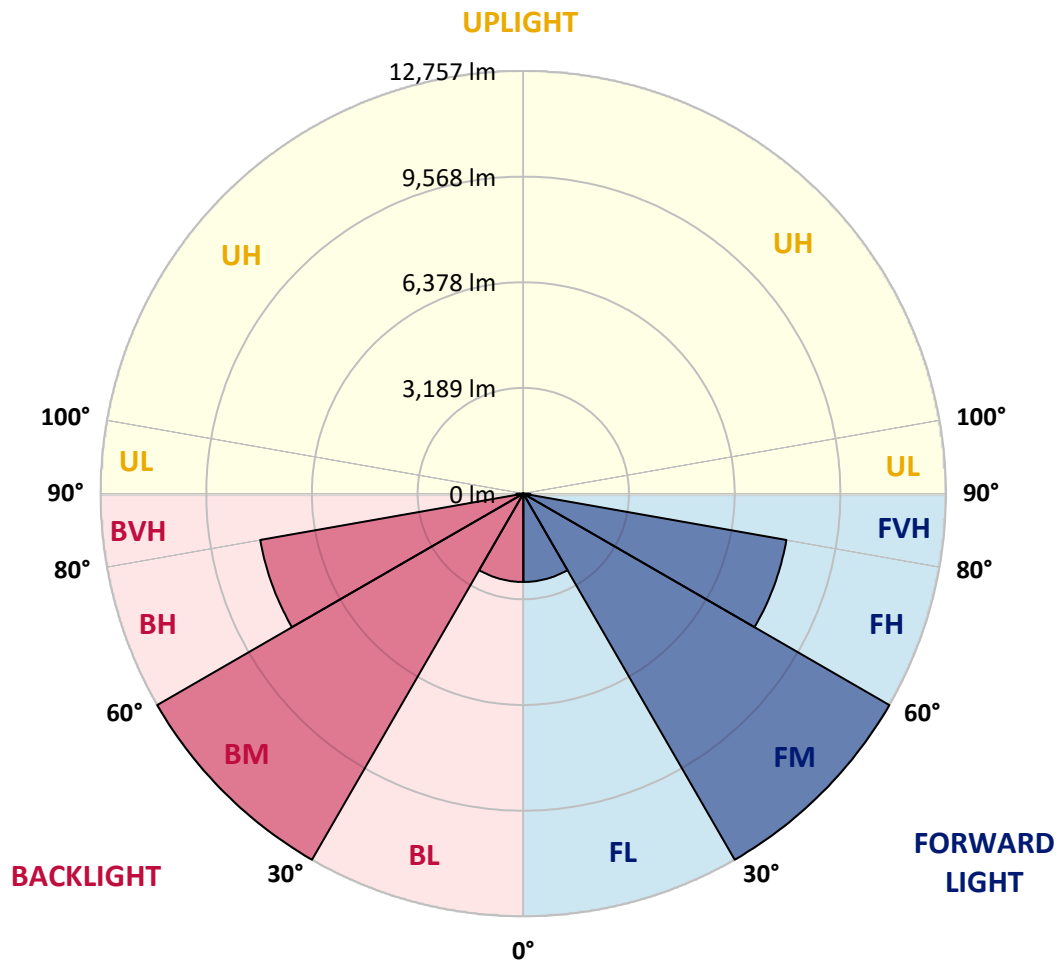
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 2665.9 | 5.6 | | | |
| FM | (30°-60°) | 12756.7 | 26.9 | | | |
| FH | (60°-80°) | 8061.4 | 17.0 | | | G4/12000 |
| FVH | (80°-90°) | 205.5 | 0.4 | | | G2/225 |
| BL | (0°-30°) | 2665.9 | 5.6 | B4/5000 | | |
| BM | (30°-60°) | 12756.7 | 26.9 | B5 | | |
| BH | (60°-80°) | 8061.4 | 17.0 | B5 | | G5 |
| BVH | (80°-90°) | 205.5 | 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° | 4962.5 | 4962.5 | 4962.5 | 4962.5 | 4962.5 | 4962.5 | 4962.5 | 4962.5 | 4962.5 | 4962.5 | 4962.5 |
| 2.5° | 4937.1 | 4942.2 | 4947.3 | 4954.9 | 4965.1 | 4980.3 | 4990.5 | 4998.1 | 5018.4 | 5020.9 | 5018.4 |
| 5° | 4919.4 | 4924.5 | 4937.1 | 4960.0 | 4993.0 | 5038.7 | 5074.2 | 5117.4 | 5150.4 | 5173.2 | 5168.1 |
| 7.5° | 4916.8 | 4927.0 | 4947.3 | 4995.5 | 5059.0 | 5137.7 | 5218.9 | 5292.5 | 5356.0 | 5406.7 | 5399.1 |
| 10° | 4957.5 | 4970.1 | 5003.1 | 5074.2 | 5173.2 | 5287.4 | 5401.7 | 5510.8 | 5602.2 | 5668.2 | 5691.0 |
| 12.5° | 5026.0 | 5036.1 | 5097.1 | 5203.7 | 5345.8 | 5488.0 | 5617.4 | 5752.0 | 5878.9 | 5990.6 | 5990.6 |
| 15° | 5145.3 | 5163.1 | 5239.2 | 5394.1 | 5569.2 | 5734.2 | 5866.2 | 6008.3 | 6145.4 | 6272.3 | 6310.4 |
| 17.5° | 5310.3 | 5335.7 | 5449.9 | 5647.9 | 5871.3 | 6023.6 | 6148.0 | 6264.7 | 6384.0 | 6505.9 | 6523.6 |
| 20° | 5536.2 | 5561.6 | 5713.9 | 5952.5 | 6216.5 | 6399.3 | 6483.0 | 6510.9 | 6569.3 | 6686.1 | 6701.3 |
| 22.5° | 5843.4 | 5868.7 | 6038.8 | 6307.9 | 6602.3 | 6800.3 | 6835.9 | 6769.9 | 6754.6 | 6846.0 | 6856.2 |
| 25° | 6191.1 | 6214.0 | 6409.4 | 6698.8 | 7003.4 | 7219.2 | 7209.0 | 7046.5 | 6955.2 | 7011.0 | 7026.2 |
| 27.5° | 6582.0 | 6615.0 | 6813.0 | 7112.5 | 7442.5 | 7632.9 | 7602.4 | 7366.4 | 7170.9 | 7160.8 | 7165.8 |
| 30° | 7082.1 | 7117.6 | 7305.5 | 7592.3 | 7917.2 | 8092.4 | 8028.9 | 7711.6 | 7409.5 | 7308.0 | 7308.0 |
| 32.5° | 7610.1 | 7698.9 | 7889.3 | 8188.8 | 8442.7 | 8569.6 | 8473.1 | 8092.4 | 7691.3 | 7549.1 | 7541.5 |
| 35° | 8298.0 | 8346.2 | 8534.0 | 8825.9 | 9016.3 | 9115.3 | 8930.0 | 8521.3 | 8059.4 | 7891.8 | 7869.0 |
| 37.5° | 8970.6 | 9011.2 | 9229.5 | 9508.8 | 9739.8 | 9734.7 | 9483.4 | 9031.6 | 8516.3 | 8328.4 | 8313.2 |
| 40° | 9658.5 | 9701.7 | 9950.4 | 10206.8 | 10437.8 | 10417.5 | 10112.9 | 9607.8 | 9059.5 | 8848.8 | 8889.4 |
| 42.5° | 10255.1 | 10303.3 | 10585.0 | 10950.6 | 11158.7 | 11153.6 | 10800.8 | 10232.2 | 9661.1 | 9473.2 | 9508.8 |
| 45° | 10798.3 | 10841.4 | 11168.9 | 11587.7 | 11892.3 | 11930.4 | 11544.6 | 10943.0 | 10356.6 | 10115.4 | 10125.6 |
| 47.5° | 11181.6 | 11262.8 | 11605.5 | 12085.2 | 12499.0 | 12633.5 | 12255.3 | 11666.4 | 10991.2 | 10739.9 | 10755.1 |
| 50° | 11473.5 | 11524.2 | 11897.4 | 12443.1 | 12966.0 | 13245.3 | 12940.7 | 12336.5 | 11625.8 | 11359.2 | 11394.8 |
| 52.5° | 11509.0 | 11569.9 | 11976.1 | 12605.6 | 13275.7 | 13699.6 | 13549.9 | 12991.4 | 12273.1 | 11998.9 | 12075.1 |
| 55° | 11219.6 | 11255.2 | 11740.0 | 12504.1 | 13397.6 | 14037.2 | 14075.3 | 13600.6 | 12889.9 | 12681.7 | 12732.5 |
| 57.5° | 10394.7 | 10486.0 | 11100.3 | 12029.4 | 13230.0 | 14217.5 | 14468.8 | 14154.0 | 13514.3 | 13308.7 | 13390.0 |
| 60° | 9041.7 | 9133.1 | 9749.9 | 10927.7 | 12598.0 | 14133.7 | 14793.7 | 14643.9 | 14080.4 | 13915.4 | 13958.5 |
| 62.5° | 7084.6 | 7077.0 | 7841.1 | 9285.4 | 11341.5 | 13722.5 | 15034.8 | 15116.1 | 14638.8 | 14430.7 | 14496.7 |
| 65° | 4591.9 | 4614.8 | 5353.4 | 6909.5 | 9445.3 | 12676.7 | 15088.1 | 15717.6 | 15187.1 | 14872.4 | 14920.6 |
| 66° | 3693.3 | 3761.9 | 4388.9 | 5823.0 | 8478.2 | 11991.3 | 14928.2 | 15895.3 | 15354.7 | 14973.9 | 14996.7 |
| 67.5° | 2726.2 | 2713.5 | 3228.8 | 4335.6 | 6769.9 | 10689.1 | 14428.2 | 16007.0 | 15545.0 | 15065.3 | 15075.4 |
| 70° | 1556.0 | 1553.5 | 1736.3 | 2381.0 | 3980.2 | 7526.3 | 12161.4 | 15471.4 | 15930.9 | 15395.3 | 15367.4 |
| 72.5° | 1137.2 | 1129.6 | 1155.0 | 1314.9 | 1941.9 | 3800.0 | 8389.3 | 13521.9 | 15732.9 | 15342.0 | 15263.3 |
| 75° | 954.4 | 949.4 | 944.3 | 964.6 | 1089.0 | 1721.0 | 4452.3 | 9727.1 | 13651.4 | 14400.2 | 14319.0 |
| 77.5° | 779.3 | 779.3 | 781.8 | 776.7 | 781.8 | 906.2 | 1845.4 | 5213.8 | 8313.2 | 9280.3 | 9506.2 |
| 80° | 609.2 | 606.7 | 649.8 | 632.1 | 591.4 | 581.3 | 817.4 | 1677.9 | 2759.2 | 2744.0 | 2264.2 |
| 82.5° | 449.3 | 418.8 | 495.0 | 482.3 | 436.6 | 370.6 | 477.2 | 715.8 | 921.4 | 599.1 | 444.2 |
| 85° | 284.3 | 281.8 | 350.3 | 319.8 | 266.5 | 175.1 | 228.5 | 307.1 | 380.8 | 231.0 | 187.8 |
| 87.5° | 50.8 | 48.2 | 111.7 | 81.2 | 81.2 | 50.8 | 63.5 | 83.8 | 124.4 | 86.3 | 63.5 |
| 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)