

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: P458344

Luminaire Tested: **GALN-SA9D-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458344
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-SA9D-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 65896 lumens
Efficiency: N/A
Efficacy: 119.4 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): 552
Input Voltage (V): NR
Input Current (A_{in}): 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

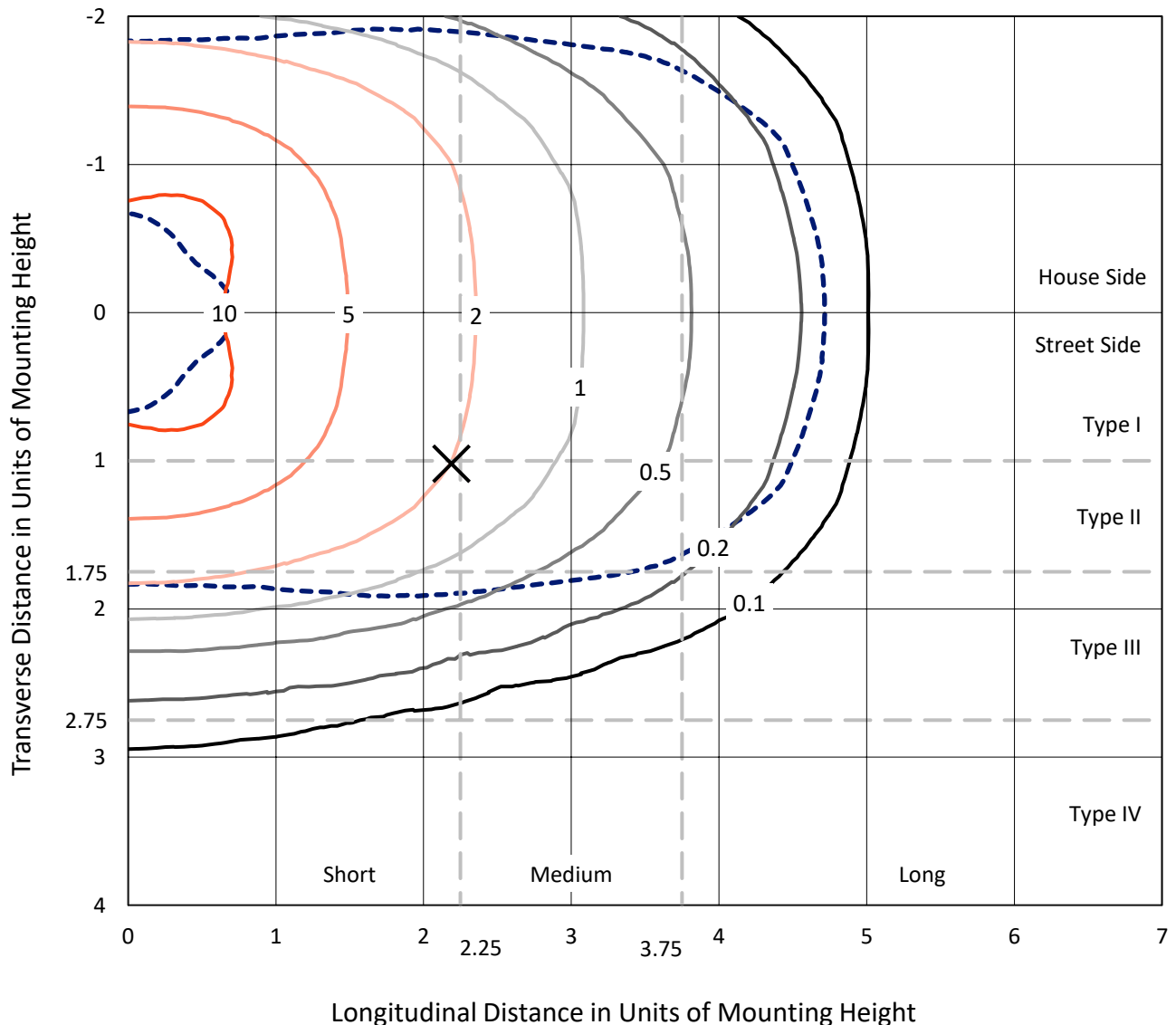




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Iso-Footcandle Lines of Horizontal Illumination

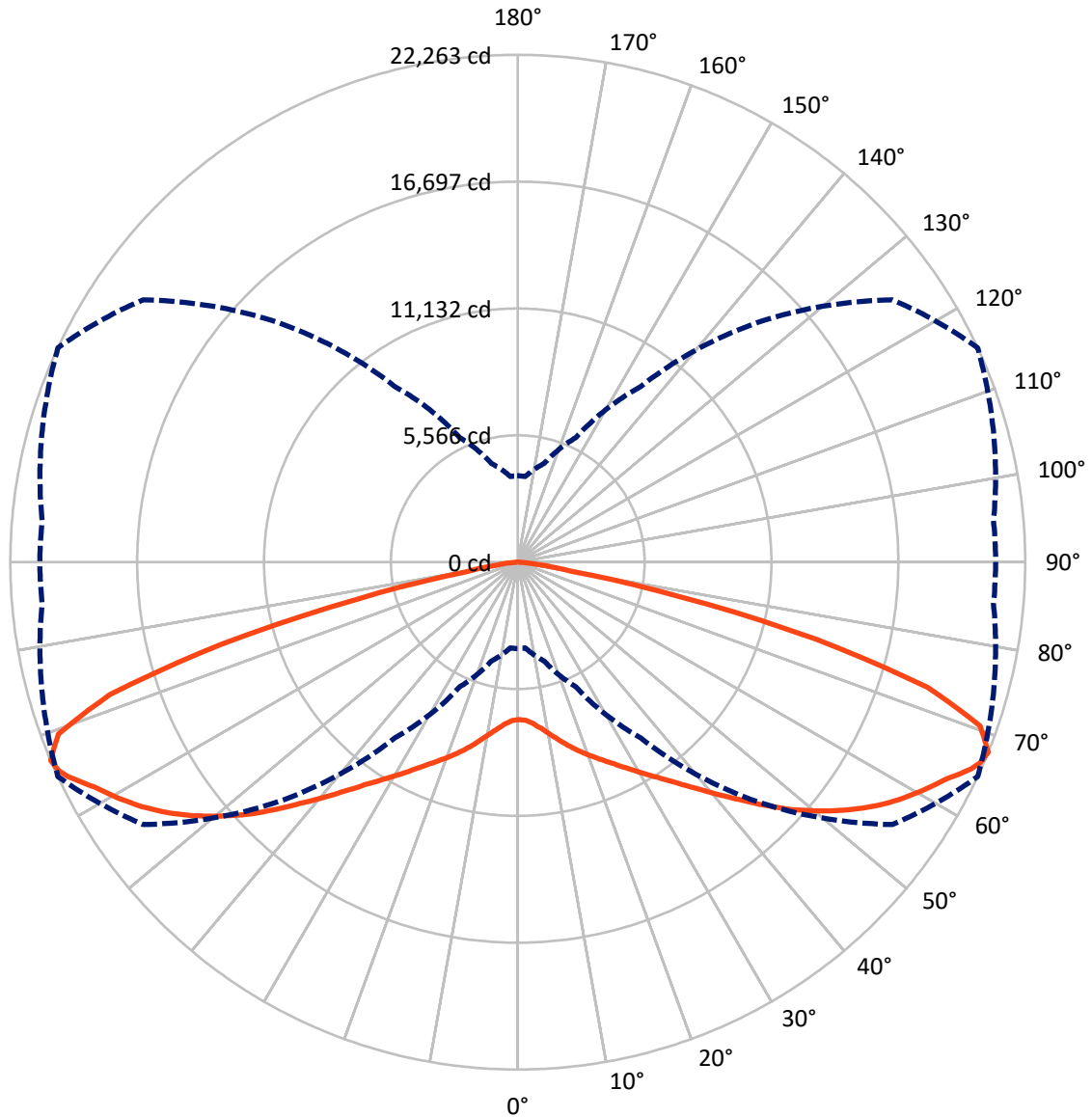
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12.6 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 | 32948.0 | 0.0 | 32948.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 32948.0 | 0.0 | 32948.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 65896.0 | 0.0 | 65896.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 680.7 | 1.0 |
| 10°-20° | 2278.3 | 3.5 |
| 20°-30° | 4456.6 | 6.8 |
| 30°-40° | 7580.0 | 11.5 |
| 40°-50° | 11996.9 | 18.2 |
| 50°-60° | 15907.7 | 24.1 |
| 60°-70° | 15005.9 | 22.8 |
| 70°-80° | 7418.1 | 11.3 |
| 80°-90° | 571.7 | 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° | 65896.0 | 100.0 |
| 0°-180° | 65896.0 | 100.0 |

Coefficient of Utilization



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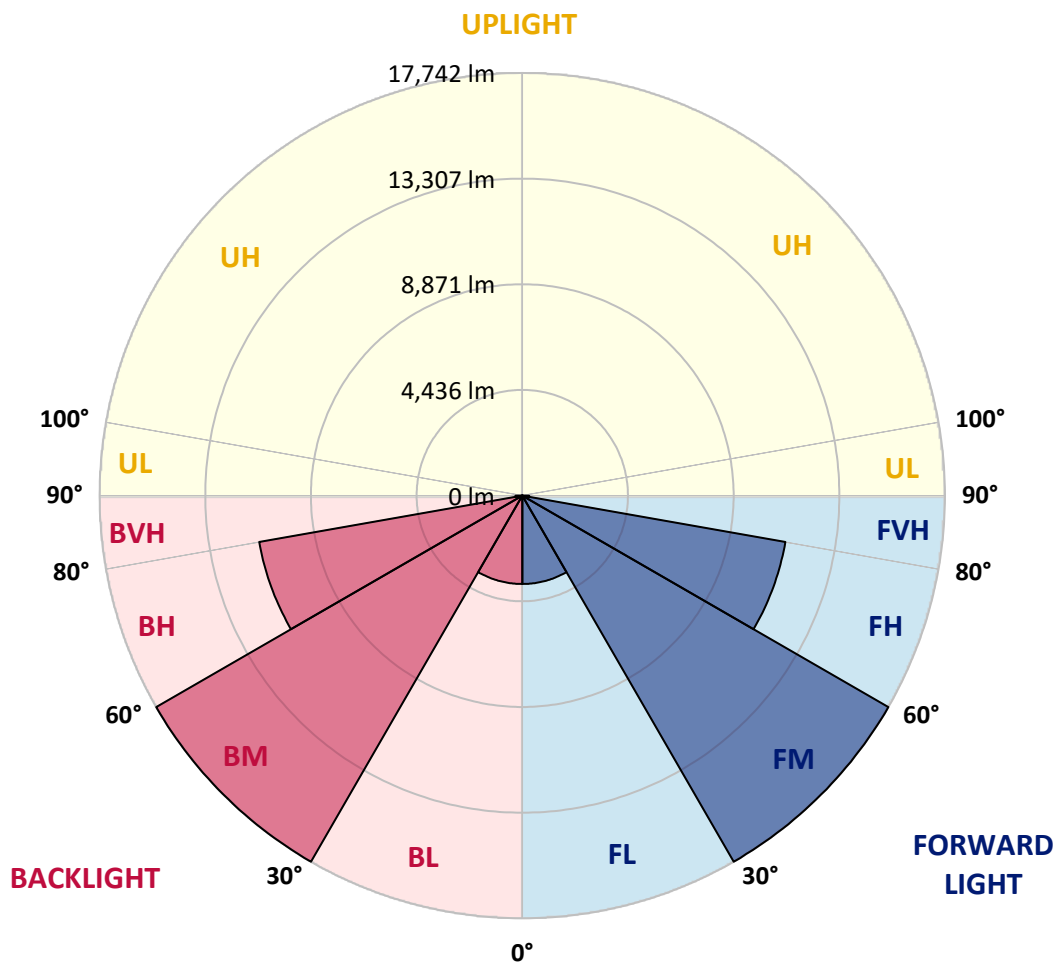
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 3707.8 | 5.6 | | | |
| FM (30°-60°) | 17742.3 | 26.9 | | | |
| FH (60°-80°) | 11212.0 | 17.0 | | | G4/12000 |
| FVH (80°-90°) | 285.8 | 0.4 | | | G3/500 |
| BL (0°-30°) | 3707.8 | 5.6 | B4/5000 | | |
| BM (30°-60°) | 17742.3 | 26.9 | B5 | | |
| BH (60°-80°) | 11212.0 | 17.0 | B5 | | G5 |
| BVH (80°-90°) | 285.8 | 0.4 | | | G3/500 |
| 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° | 6902.0 | 6902.0 | 6902.0 | 6902.0 | 6902.0 | 6902.0 | 6902.0 | 6902.0 | 6902.0 | 6902.0 | 6902.0 |
| 2.5° | 6866.7 | 6873.8 | 6880.8 | 6891.4 | 6905.6 | 6926.7 | 6940.9 | 6951.5 | 6979.7 | 6983.2 | 6979.7 |
| 5° | 6842.0 | 6849.1 | 6866.7 | 6898.5 | 6944.4 | 7007.9 | 7057.4 | 7117.4 | 7163.3 | 7195.1 | 7188.0 |
| 7.5° | 6838.5 | 6852.6 | 6880.8 | 6947.9 | 7036.2 | 7145.6 | 7258.6 | 7361.0 | 7449.2 | 7519.9 | 7509.3 |
| 10° | 6895.0 | 6912.6 | 6958.5 | 7057.4 | 7195.1 | 7353.9 | 7512.8 | 7664.6 | 7791.7 | 7883.5 | 7915.3 |
| 12.5° | 6990.3 | 7004.4 | 7089.1 | 7237.4 | 7435.1 | 7632.8 | 7812.9 | 8000.0 | 8176.5 | 8331.9 | 8331.9 |
| 15° | 7156.2 | 7180.9 | 7286.8 | 7502.2 | 7745.8 | 7975.3 | 8158.9 | 8356.6 | 8547.2 | 8723.7 | 8776.7 |
| 17.5° | 7385.7 | 7421.0 | 7579.9 | 7855.2 | 8165.9 | 8377.8 | 8550.7 | 8713.1 | 8879.1 | 9048.5 | 9073.2 |
| 20° | 7699.9 | 7735.2 | 7947.0 | 8278.9 | 8646.1 | 8900.3 | 9016.8 | 9055.6 | 9136.8 | 9299.2 | 9320.4 |
| 22.5° | 8127.1 | 8162.4 | 8398.9 | 8773.2 | 9182.7 | 9458.1 | 9507.5 | 9415.7 | 9394.5 | 9521.6 | 9535.7 |
| 25° | 8610.8 | 8642.5 | 8914.4 | 9316.9 | 9740.5 | 10040.6 | 10026.5 | 9800.5 | 9673.4 | 9751.1 | 9772.3 |
| 27.5° | 9154.5 | 9200.3 | 9475.7 | 9892.3 | 10351.3 | 10616.1 | 10573.7 | 10245.4 | 9973.5 | 9959.4 | 9966.5 |
| 30° | 9849.9 | 9899.4 | 10160.6 | 10559.6 | 11011.5 | 11255.1 | 11166.8 | 10725.5 | 10305.4 | 10164.2 | 10164.2 |
| 32.5° | 10584.3 | 10707.8 | 10972.6 | 11389.2 | 11742.3 | 11918.8 | 11784.6 | 11255.1 | 10697.3 | 10499.6 | 10489.0 |
| 35° | 11541.0 | 11608.1 | 11869.4 | 12275.4 | 12540.1 | 12677.8 | 12420.1 | 11851.7 | 11209.2 | 10976.2 | 10944.4 |
| 37.5° | 12476.6 | 12533.1 | 12836.7 | 13225.1 | 13546.3 | 13539.3 | 13189.8 | 12561.3 | 11844.7 | 11583.4 | 11562.2 |
| 40° | 13433.4 | 13493.4 | 13839.4 | 14195.9 | 14517.2 | 14489.0 | 14065.3 | 13362.7 | 12600.2 | 12307.1 | 12363.6 |
| 42.5° | 14263.0 | 14330.1 | 14722.0 | 15230.4 | 15519.8 | 15512.8 | 15022.1 | 14231.2 | 13436.9 | 13175.6 | 13225.1 |
| 45° | 15018.5 | 15078.5 | 15534.0 | 16116.5 | 16540.1 | 16593.1 | 16056.5 | 15219.8 | 14404.2 | 14068.8 | 14083.0 |
| 47.5° | 15551.6 | 15664.6 | 16141.2 | 16808.5 | 17383.9 | 17571.0 | 17045.0 | 16225.9 | 15286.8 | 14937.3 | 14958.5 |
| 50° | 15957.6 | 16028.2 | 16547.2 | 17306.3 | 18033.5 | 18421.9 | 17998.2 | 17158.0 | 16169.4 | 15798.8 | 15848.2 |
| 52.5° | 16007.0 | 16091.8 | 16656.7 | 17532.2 | 18464.2 | 19053.8 | 18845.5 | 18068.8 | 17069.7 | 16688.4 | 16794.3 |
| 55° | 15604.6 | 15654.0 | 16328.3 | 17391.0 | 18633.7 | 19523.4 | 19576.3 | 18916.1 | 17927.6 | 17638.1 | 17708.7 |
| 57.5° | 14457.2 | 14584.3 | 15438.6 | 16730.8 | 18400.7 | 19774.0 | 20123.6 | 19685.8 | 18796.1 | 18510.1 | 18623.1 |
| 60° | 12575.5 | 12702.5 | 13560.4 | 15198.6 | 17521.6 | 19657.5 | 20575.4 | 20367.2 | 19583.4 | 19353.9 | 19413.9 |
| 62.5° | 9853.5 | 9842.9 | 10905.6 | 12914.4 | 15774.0 | 19085.6 | 20910.8 | 21023.8 | 20360.1 | 20070.6 | 20162.4 |
| 65° | 6386.6 | 6418.4 | 7445.7 | 9609.9 | 13136.8 | 17631.1 | 20985.0 | 21860.5 | 21122.7 | 20684.9 | 20752.0 |
| 66° | 5136.8 | 5232.1 | 6104.1 | 8098.8 | 11791.7 | 16677.8 | 20762.6 | 22107.7 | 21355.7 | 20826.1 | 20857.9 |
| 67.5° | 3791.7 | 3774.0 | 4490.7 | 6030.0 | 9415.7 | 14866.7 | 20067.1 | 22263.0 | 21620.5 | 20953.2 | 20967.3 |
| 70° | 2164.2 | 2160.6 | 2414.8 | 3311.6 | 5535.7 | 10467.8 | 16914.4 | 21518.1 | 22157.1 | 21412.2 | 21373.3 |
| 72.5° | 1581.6 | 1571.0 | 1606.4 | 1828.8 | 2700.8 | 5285.1 | 11668.1 | 18806.7 | 21881.7 | 21338.0 | 21228.6 |
| 75° | 1327.4 | 1320.4 | 1313.3 | 1341.6 | 1514.6 | 2393.6 | 6192.4 | 13528.7 | 18986.7 | 20028.2 | 19915.3 |
| 77.5° | 1083.8 | 1083.8 | 1087.4 | 1080.3 | 1087.4 | 1260.4 | 2566.6 | 7251.5 | 11562.2 | 12907.3 | 13221.5 |
| 80° | 847.3 | 843.8 | 903.8 | 879.1 | 822.6 | 808.5 | 1136.8 | 2333.6 | 3837.6 | 3816.4 | 3149.2 |
| 82.5° | 624.9 | 582.5 | 688.4 | 670.8 | 607.2 | 515.4 | 663.7 | 995.6 | 1281.6 | 833.2 | 617.8 |
| 85° | 395.4 | 391.9 | 487.2 | 444.8 | 370.7 | 243.6 | 317.7 | 427.2 | 529.6 | 321.3 | 261.3 |
| 87.5° | 70.6 | 67.1 | 155.3 | 113.0 | 113.0 | 70.6 | 88.3 | 116.5 | 173.0 | 120.0 | 88.3 |
| 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)