

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: P458112

Luminaire Tested: **GALN-SA9C-730-U-RW**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P458112
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-SA9C-730-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 70 CRI, 3000K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 59886 lumens
Efficiency: N/A
Efficacy: 124.5 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

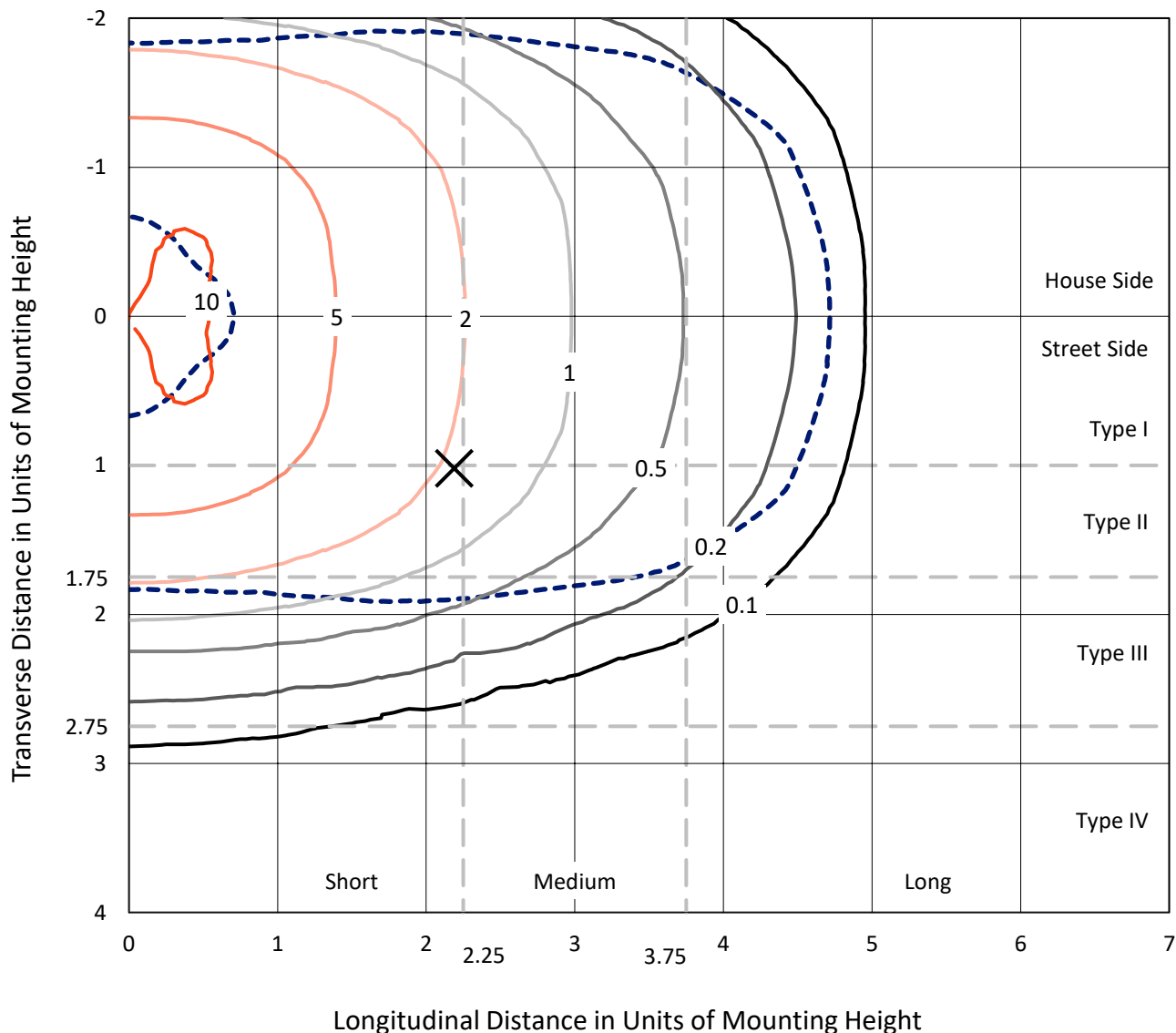
Input Watts (W): 481
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

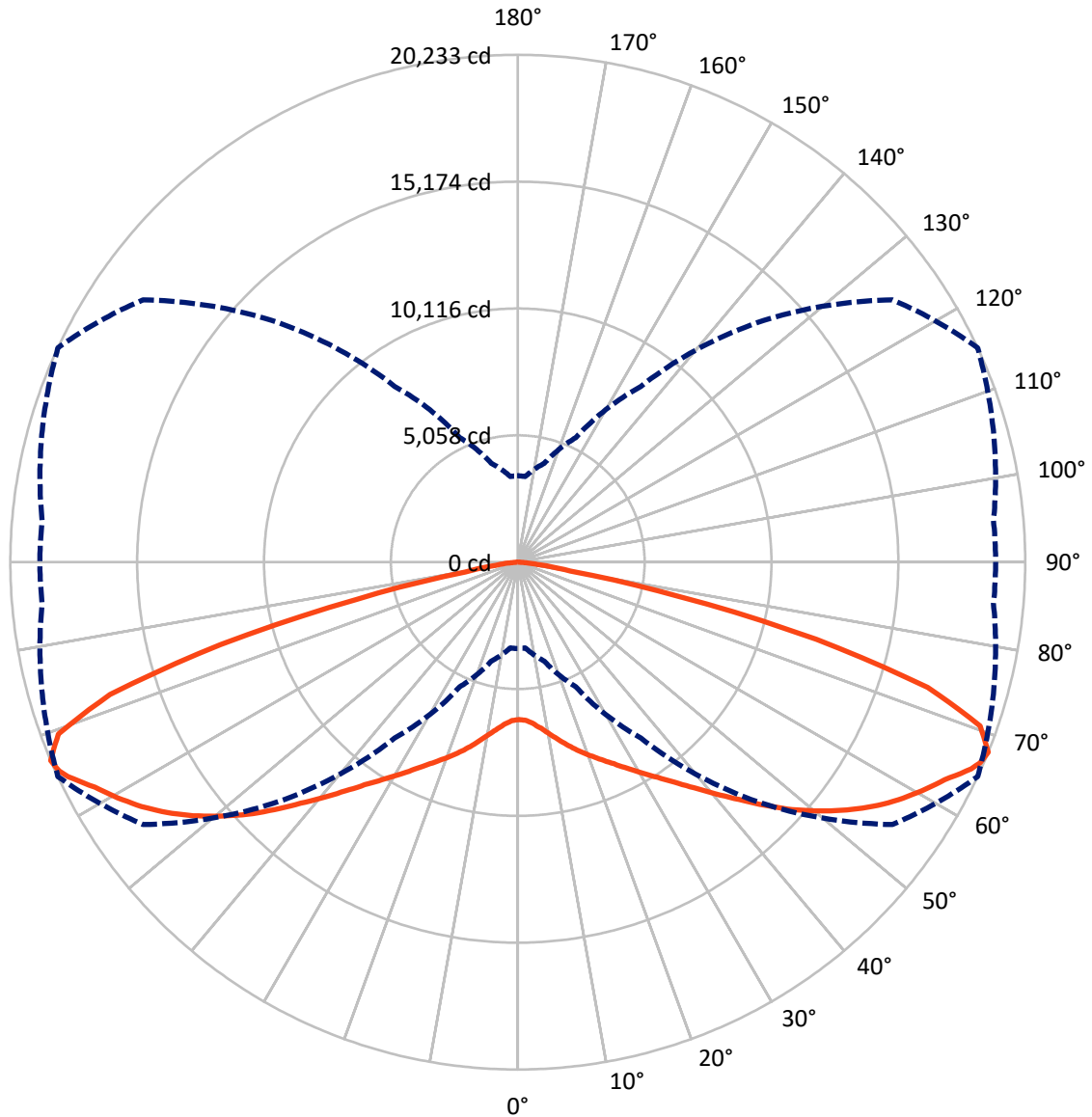
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 11.4 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 | 29943.0 | 0.0 | 29943.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 29943.0 | 0.0 | 29943.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 59886.0 | 0.0 | 59886.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 618.6 | 1.0 |
| 10°-20° | 2070.5 | 3.5 |
| 20°-30° | 4050.1 | 6.8 |
| 30°-40° | 6888.7 | 11.5 |
| 40°-50° | 10902.8 | 18.2 |
| 50°-60° | 14456.8 | 24.1 |
| 60°-70° | 13637.3 | 22.8 |
| 70°-80° | 6741.6 | 11.3 |
| 80°-90° | 519.6 | 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° | 59886.0 | 100.0 |
| 0°-180° | 59886.0 | 100.0 |

Coefficient of Utilization



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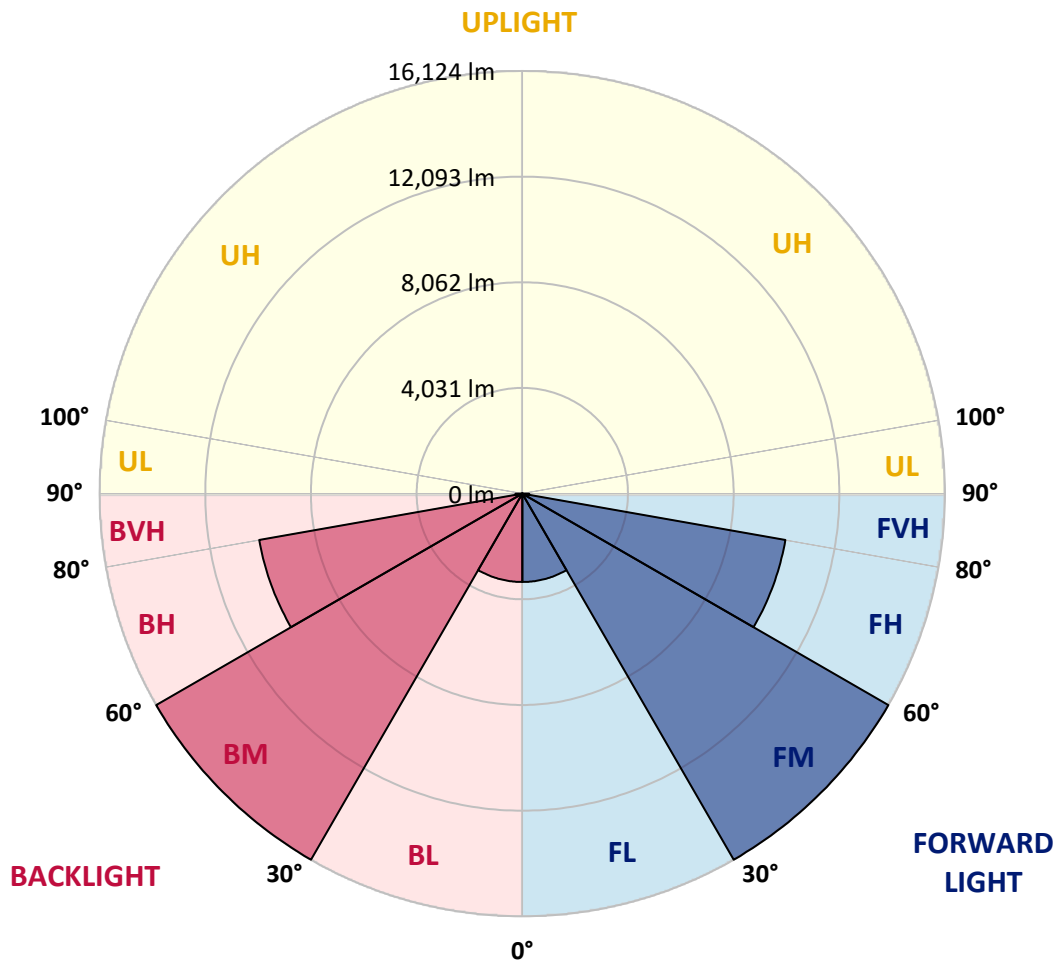
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|----------|
| | | | | B | U | G |
| FL | (0°-30°) | 3369.6 | 5.6 | | | |
| FM | (30°-60°) | 16124.2 | 26.9 | | | |
| FH | (60°-80°) | 10189.4 | 17.0 | | | G4/12000 |
| FVH | (80°-90°) | 259.8 | 0.4 | | | G3/500 |
| BL | (0°-30°) | 3369.6 | 5.6 | B4/5000 | | |
| BM | (30°-60°) | 16124.2 | 26.9 | B5 | | |
| BH | (60°-80°) | 10189.4 | 17.0 | B5 | | G5 |
| BVH | (80°-90°) | 259.8 | 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° | 6272.5 | 6272.5 | 6272.5 | 6272.5 | 6272.5 | 6272.5 | 6272.5 | 6272.5 | 6272.5 | 6272.5 | 6272.5 |
| 2.5° | 6240.4 | 6246.9 | 6253.3 | 6262.9 | 6275.7 | 6295.0 | 6307.8 | 6317.4 | 6343.1 | 6346.3 | 6343.1 |
| 5° | 6218.0 | 6224.4 | 6240.4 | 6269.3 | 6311.0 | 6368.8 | 6413.7 | 6468.2 | 6510.0 | 6538.8 | 6532.4 |
| 7.5° | 6214.8 | 6227.6 | 6253.3 | 6314.2 | 6394.5 | 6493.9 | 6596.6 | 6689.6 | 6769.8 | 6834.0 | 6824.4 |
| 10° | 6266.1 | 6282.2 | 6323.9 | 6413.7 | 6538.8 | 6683.2 | 6827.6 | 6965.6 | 7081.1 | 7164.5 | 7193.4 |
| 12.5° | 6352.7 | 6365.6 | 6442.6 | 6577.3 | 6757.0 | 6936.7 | 7100.3 | 7270.4 | 7430.8 | 7572.0 | 7572.0 |
| 15° | 6503.5 | 6526.0 | 6622.3 | 6818.0 | 7039.4 | 7247.9 | 7414.7 | 7594.4 | 7767.7 | 7928.1 | 7976.2 |
| 17.5° | 6712.1 | 6744.2 | 6888.6 | 7138.8 | 7421.2 | 7613.7 | 7770.9 | 7918.5 | 8069.3 | 8223.3 | 8245.7 |
| 20° | 6997.6 | 7029.7 | 7222.2 | 7523.8 | 7857.5 | 8088.5 | 8194.4 | 8229.7 | 8303.5 | 8451.1 | 8470.3 |
| 22.5° | 7385.9 | 7417.9 | 7632.9 | 7973.0 | 8345.2 | 8595.5 | 8640.4 | 8557.0 | 8537.7 | 8653.2 | 8666.0 |
| 25° | 7825.4 | 7854.3 | 8101.3 | 8467.1 | 8852.1 | 9124.8 | 9112.0 | 8906.7 | 8791.2 | 8861.8 | 8881.0 |
| 27.5° | 8319.5 | 8361.2 | 8611.5 | 8990.1 | 9407.2 | 9647.8 | 9609.3 | 9310.9 | 9063.9 | 9051.1 | 9057.5 |
| 30° | 8951.6 | 8996.5 | 9233.9 | 9596.5 | 10007.2 | 10228.6 | 10148.3 | 9747.3 | 9365.5 | 9237.1 | 9237.1 |
| 32.5° | 9618.9 | 9731.2 | 9971.9 | 10350.5 | 10671.3 | 10831.7 | 10709.8 | 10228.6 | 9721.6 | 9541.9 | 9532.3 |
| 35° | 10488.4 | 10549.4 | 10786.8 | 11155.8 | 11396.4 | 11521.6 | 11287.3 | 10770.8 | 10186.8 | 9975.1 | 9946.2 |
| 37.5° | 11338.7 | 11390.0 | 11665.9 | 12018.9 | 12310.8 | 12304.4 | 11986.8 | 11415.7 | 10764.4 | 10526.9 | 10507.7 |
| 40° | 12208.2 | 12262.7 | 12577.1 | 12901.2 | 13193.2 | 13167.5 | 12782.5 | 12144.0 | 11451.0 | 11184.7 | 11236.0 |
| 42.5° | 12962.2 | 13023.1 | 13379.3 | 13841.3 | 14104.4 | 14098.0 | 13652.0 | 12933.3 | 12211.4 | 11974.0 | 12018.9 |
| 45° | 13648.8 | 13703.3 | 14117.2 | 14646.6 | 15031.6 | 15079.7 | 14592.1 | 13831.7 | 13090.5 | 12785.7 | 12798.5 |
| 47.5° | 14133.2 | 14235.9 | 14669.1 | 15275.5 | 15798.4 | 15968.5 | 15490.4 | 14746.1 | 13892.6 | 13575.0 | 13594.2 |
| 50° | 14502.2 | 14566.4 | 15038.0 | 15727.8 | 16388.8 | 16741.7 | 16356.7 | 15593.1 | 14694.7 | 14357.8 | 14402.8 |
| 52.5° | 14547.1 | 14624.1 | 15137.5 | 15933.2 | 16780.2 | 17316.0 | 17126.7 | 16420.9 | 15512.9 | 15166.4 | 15262.6 |
| 55° | 14181.4 | 14226.3 | 14839.1 | 15804.9 | 16934.2 | 17742.8 | 17790.9 | 17190.9 | 16292.5 | 16029.4 | 16093.6 |
| 57.5° | 13138.6 | 13254.1 | 14030.6 | 15204.9 | 16722.5 | 17970.6 | 18288.2 | 17890.3 | 17081.8 | 16821.9 | 16924.6 |
| 60° | 11428.5 | 11544.0 | 12323.7 | 13812.4 | 15923.6 | 17864.7 | 18698.9 | 18509.6 | 17797.3 | 17588.8 | 17643.3 |
| 62.5° | 8954.8 | 8945.2 | 9910.9 | 11736.5 | 14335.4 | 17344.9 | 19003.7 | 19106.4 | 18503.2 | 18240.1 | 18323.5 |
| 65° | 5804.1 | 5833.0 | 6766.6 | 8733.4 | 11938.7 | 16023.0 | 19071.1 | 19866.8 | 19196.2 | 18798.3 | 18859.3 |
| 66° | 4668.3 | 4754.9 | 5547.4 | 7360.2 | 10716.2 | 15156.7 | 18868.9 | 20091.3 | 19407.9 | 18926.7 | 18955.6 |
| 67.5° | 3445.9 | 3429.8 | 4081.2 | 5480.0 | 8557.0 | 13510.8 | 18236.9 | 20232.5 | 19648.6 | 19042.2 | 19055.0 |
| 70° | 1966.8 | 1963.6 | 2194.6 | 3009.5 | 5030.9 | 9513.1 | 15371.7 | 19555.5 | 20136.3 | 19459.3 | 19424.0 |
| 72.5° | 1437.4 | 1427.8 | 1459.8 | 1662.0 | 2454.5 | 4803.1 | 10603.9 | 17091.4 | 19886.0 | 19391.9 | 19292.4 |
| 75° | 1206.4 | 1200.0 | 1193.5 | 1219.2 | 1376.4 | 2175.3 | 5627.6 | 12294.8 | 17255.1 | 18201.6 | 18098.9 |
| 77.5° | 985.0 | 985.0 | 988.2 | 981.8 | 988.2 | 1145.4 | 2332.5 | 6590.2 | 10507.7 | 11730.1 | 12015.7 |
| 80° | 770.0 | 766.8 | 821.4 | 798.9 | 747.6 | 734.7 | 1033.1 | 2120.8 | 3487.6 | 3468.3 | 2861.9 |
| 82.5° | 567.9 | 529.4 | 625.6 | 609.6 | 551.9 | 468.4 | 603.2 | 904.8 | 1164.7 | 757.2 | 561.5 |
| 85° | 359.3 | 356.1 | 442.8 | 404.3 | 336.9 | 221.4 | 288.8 | 388.2 | 481.3 | 292.0 | 237.4 |
| 87.5° | 64.2 | 61.0 | 141.2 | 102.7 | 102.7 | 64.2 | 80.2 | 105.9 | 157.2 | 109.1 | 80.2 |
| 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)