

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: P531554

Luminaire Tested: **GALN-SA6D-760-U-5WQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P531554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-2)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-760-U-5WQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 5700K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 38918 lumens
Efficiency: N/A
Efficacy: 105.8 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

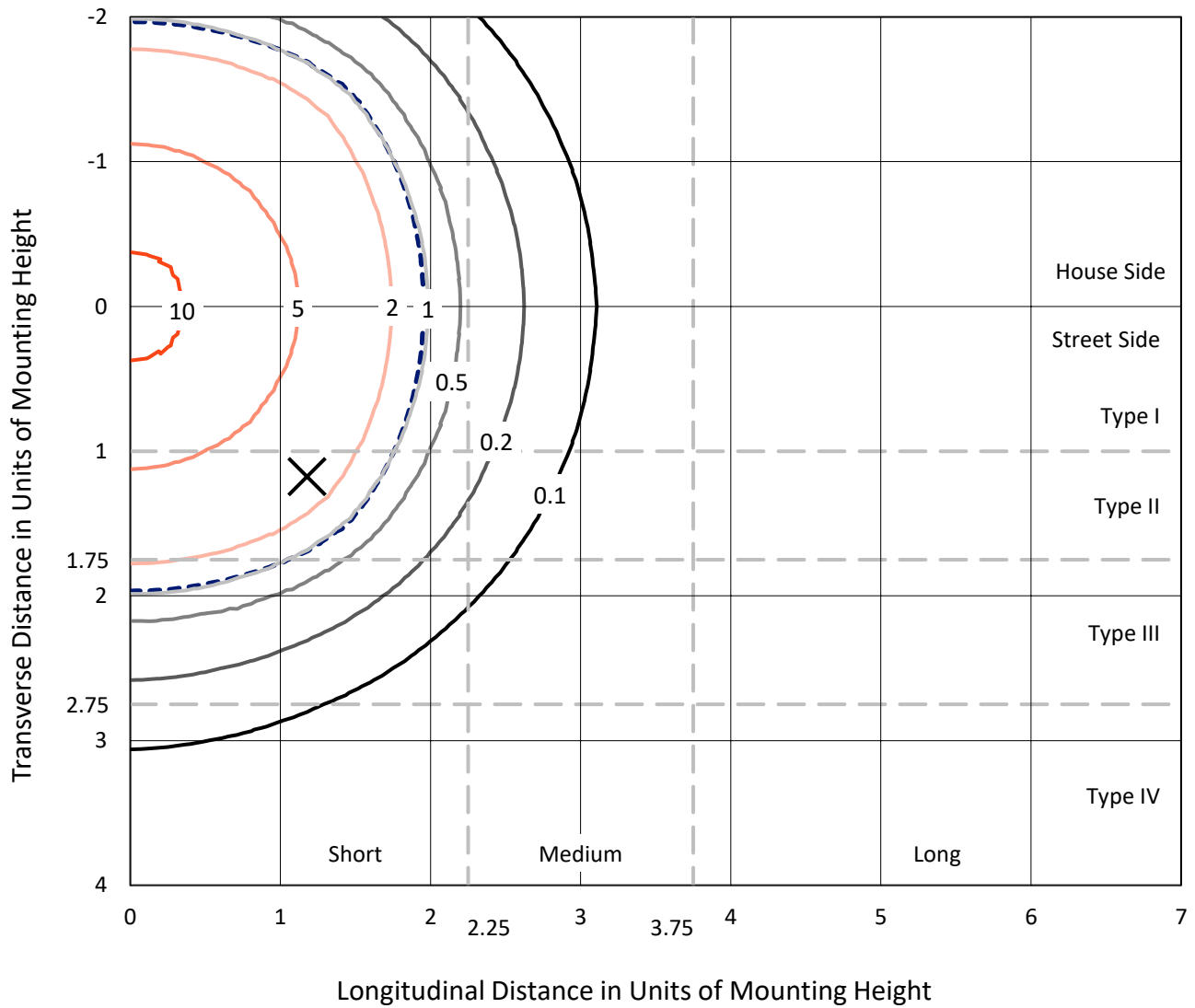
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

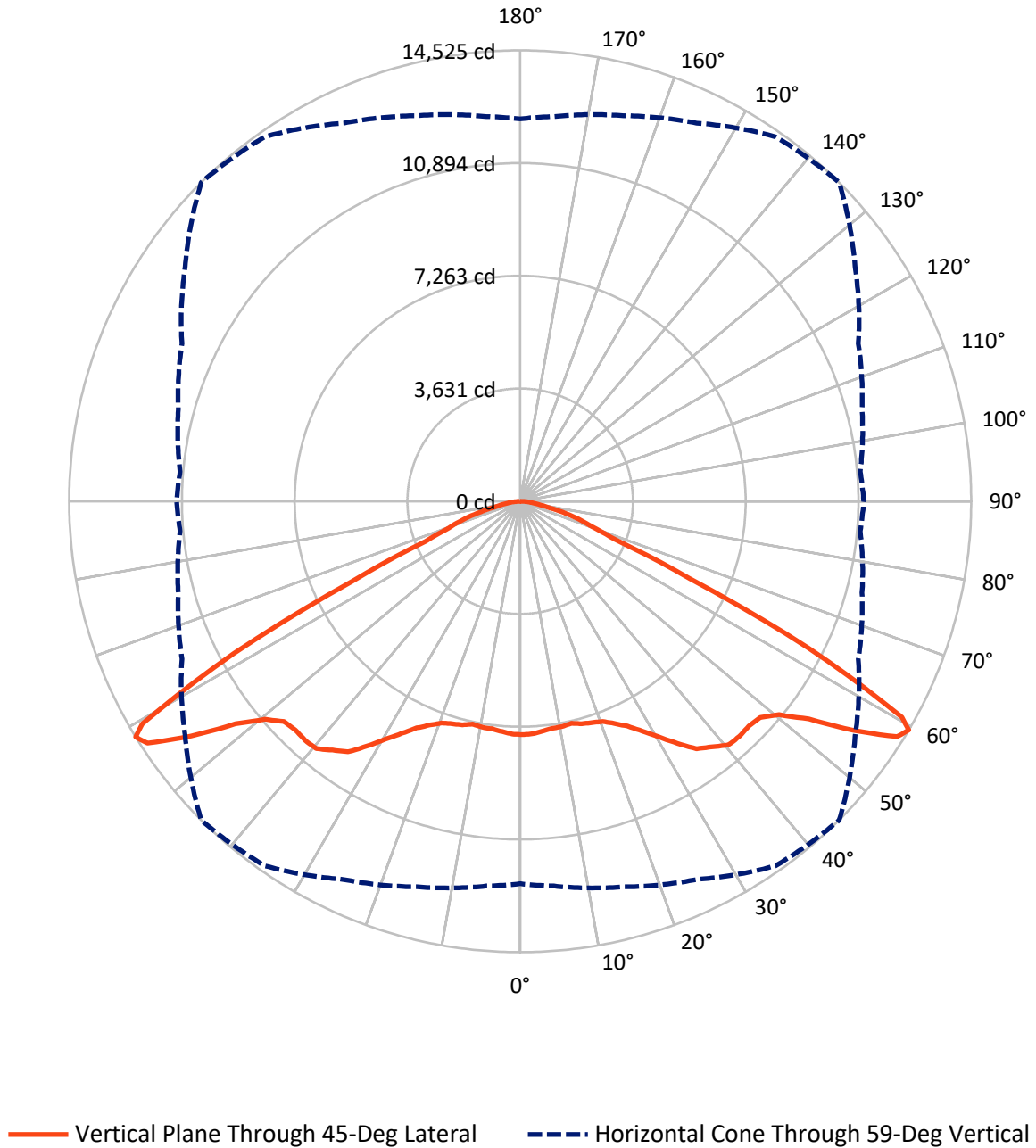
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 12 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 19459.0 | 0.0 | 19459.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 19459.0 | 0.0 | 19459.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 38918.0 | 0.0 | 38918.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 708.6 | 1.8 |
| 10°-20° | 2107.3 | 5.4 |
| 20°-30° | 3679.6 | 9.5 |
| 30°-40° | 5876.9 | 15.1 |
| 40°-50° | 8005.5 | 20.6 |
| 50°-60° | 10825.5 | 27.8 |
| 60°-70° | 5936.7 | 15.3 |
| 70°-80° | 1518.8 | 3.9 |
| 80°-90° | 259.0 | 0.7 |
| 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° | 38918.0 | 100.0 |
| 0°-180° | 38918.0 | 100.0 |

Coefficient of Utilization

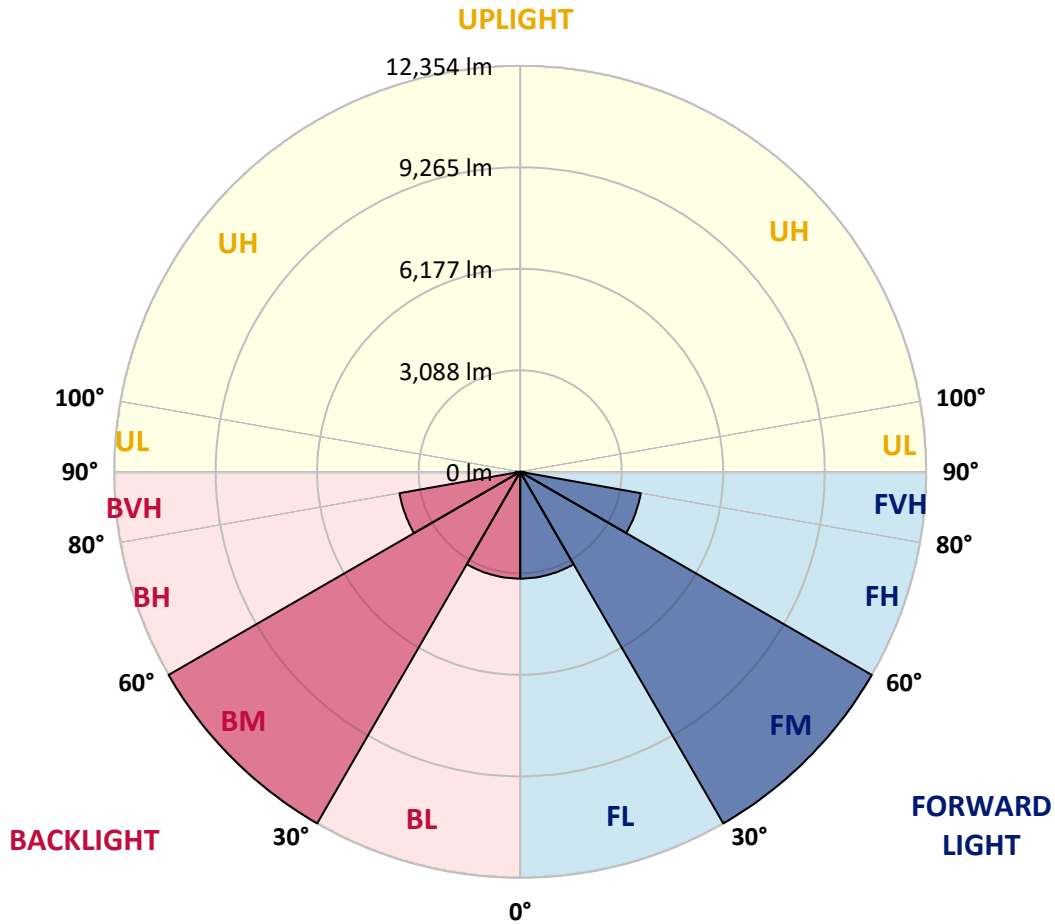


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 3247.8 | 8.3 | | | |
| FM (30°-60°) | 12353.9 | 31.7 | | | |
| FH (60°-80°) | 3727.8 | 9.6 | | | G2/5000 |
| FVH (80°-90°) | 129.5 | 0.3 | | | G2/225 |
| BL (0°-30°) | 3247.8 | 8.3 | B4/5000 | | |
| BM (30°-60°) | 12353.9 | 31.7 | B5 | | |
| BH (60°-80°) | 3727.8 | 9.6 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 129.5 | 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-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 7517.1 | 7517.1 | 7517.1 | 7517.1 | 7517.1 | 7517.1 | 7517.1 | 7517.1 | 7517.1 | 7517.1 | 7517.1 |
| 2.5° | 7472.2 | 7527.1 | 7487.2 | 7522.1 | 7517.1 | 7502.1 | 7477.2 | 7462.2 | 7442.3 | 7472.2 | 7422.3 |
| 5° | 7442.3 | 7487.2 | 7532.1 | 7472.2 | 7472.2 | 7442.3 | 7427.3 | 7397.4 | 7397.4 | 7392.4 | 7387.4 |
| 7.5° | 7492.2 | 7447.3 | 7427.3 | 7437.3 | 7447.3 | 7382.4 | 7427.3 | 7367.5 | 7317.6 | 7352.5 | 7392.4 |
| 10° | 7447.3 | 7467.2 | 7392.4 | 7427.3 | 7372.4 | 7382.4 | 7352.5 | 7392.4 | 7337.5 | 7337.5 | 7337.5 |
| 12.5° | 7492.2 | 7437.3 | 7462.2 | 7437.3 | 7422.3 | 7337.5 | 7377.4 | 7332.5 | 7327.5 | 7377.4 | 7332.5 |
| 15° | 7581.9 | 7492.2 | 7472.2 | 7422.3 | 7437.3 | 7437.3 | 7397.4 | 7402.4 | 7347.5 | 7377.4 | 7387.4 |
| 17.5° | 7552.0 | 7502.1 | 7487.2 | 7427.3 | 7477.2 | 7492.2 | 7417.3 | 7367.5 | 7402.4 | 7397.4 | 7392.4 |
| 20° | 7577.0 | 7596.9 | 7581.9 | 7591.9 | 7611.9 | 7572.0 | 7502.1 | 7432.3 | 7387.4 | 7452.3 | 7447.3 |
| 22.5° | 7736.6 | 7716.6 | 7706.6 | 7696.7 | 7731.6 | 7771.5 | 7676.7 | 7567.0 | 7567.0 | 7611.9 | 7631.8 |
| 25° | 7866.3 | 7861.3 | 7856.3 | 7901.2 | 8020.9 | 8020.9 | 7901.2 | 7761.5 | 7726.6 | 7756.5 | 7731.6 |
| 27.5° | 8055.8 | 8110.7 | 8090.7 | 8170.5 | 8345.1 | 8385.0 | 8225.4 | 8060.8 | 7966.0 | 7931.1 | 7976.0 |
| 30° | 8489.8 | 8424.9 | 8439.9 | 8524.7 | 8679.3 | 8809.0 | 8564.6 | 8390.0 | 8260.3 | 8255.3 | 8275.3 |
| 32.5° | 8779.1 | 8829.0 | 8873.9 | 8953.7 | 9198.1 | 9297.9 | 9003.6 | 8719.2 | 8639.4 | 8594.5 | 8609.5 |
| 35° | 9357.7 | 9312.8 | 9302.8 | 9382.7 | 9627.1 | 9791.7 | 9422.6 | 9173.2 | 9068.4 | 9168.2 | 9168.2 |
| 37.5° | 9906.4 | 9781.7 | 9686.9 | 9791.7 | 10016.1 | 10036.1 | 9721.8 | 9587.2 | 9532.3 | 9647.0 | 9642.0 |
| 40° | 10165.8 | 10155.8 | 9936.3 | 9996.2 | 10295.5 | 10325.4 | 10031.1 | 9871.5 | 9861.5 | 10011.2 | 10160.8 |
| 42.5° | 10435.1 | 10340.4 | 10120.9 | 10160.8 | 10345.4 | 10355.3 | 10076.0 | 10031.1 | 10140.8 | 10285.5 | 10295.5 |
| 45° | 10480.0 | 10400.2 | 10260.6 | 10160.8 | 10295.5 | 10325.4 | 10160.8 | 10190.7 | 10200.7 | 10375.3 | 10375.3 |
| 47.5° | 10569.8 | 10559.8 | 10480.0 | 10405.2 | 10430.2 | 10405.2 | 10300.5 | 10345.4 | 10495.0 | 10579.8 | 10539.9 |
| 50° | 10819.2 | 10714.5 | 10794.3 | 10729.4 | 10734.4 | 10804.3 | 10709.5 | 10754.4 | 10724.5 | 10649.6 | 10599.8 |
| 52.5° | 11367.9 | 11318.0 | 11387.9 | 11432.8 | 11482.7 | 11642.3 | 11532.5 | 11293.1 | 11068.6 | 10869.1 | 10864.1 |
| 55° | 12171.0 | 12205.9 | 12340.6 | 12570.1 | 12764.6 | 13019.0 | 12490.3 | 11916.6 | 11557.5 | 11243.2 | 11263.2 |
| 57.5° | 12929.2 | 12904.3 | 13088.8 | 13612.6 | 14181.2 | 14310.9 | 13273.4 | 12455.3 | 11871.7 | 11672.2 | 11587.4 |
| 59° | 12320.7 | 12440.4 | 12859.4 | 13443.0 | 14335.9 | 14525.4 | 13168.6 | 12016.4 | 11397.9 | 10993.8 | 11063.6 |
| 60° | 11362.9 | 11407.8 | 11781.9 | 12595.0 | 13802.1 | 14126.4 | 12465.3 | 11338.0 | 10515.0 | 10280.5 | 10385.3 |
| 62.5° | 8030.9 | 7996.0 | 8265.3 | 8928.7 | 10011.2 | 10450.1 | 9267.9 | 8474.8 | 7956.1 | 7696.7 | 7756.5 |
| 65° | 4269.8 | 4429.5 | 4539.2 | 4953.2 | 5526.8 | 5990.7 | 5501.9 | 5157.7 | 4868.4 | 4653.9 | 4648.9 |
| 67.5° | 2883.1 | 2863.2 | 2888.1 | 2982.9 | 3177.4 | 3307.1 | 3297.1 | 3122.6 | 3097.6 | 3057.7 | 3102.6 |
| 70° | 2429.2 | 2419.2 | 2374.3 | 2374.3 | 2414.2 | 2444.2 | 2479.1 | 2499.0 | 2539.0 | 2588.8 | 2583.8 |
| 72.5° | 1970.3 | 1945.4 | 1915.4 | 1900.5 | 1950.4 | 1965.3 | 2010.2 | 2030.2 | 2065.1 | 2060.1 | 2105.0 |
| 75° | 1301.9 | 1301.9 | 1336.8 | 1376.7 | 1391.7 | 1421.6 | 1426.6 | 1486.5 | 1486.5 | 1496.4 | 1456.5 |
| 77.5° | 728.3 | 708.3 | 733.3 | 773.2 | 808.1 | 862.9 | 917.8 | 962.7 | 987.6 | 977.7 | 977.7 |
| 80° | 424.0 | 424.0 | 448.9 | 493.8 | 538.7 | 588.6 | 628.5 | 663.4 | 688.4 | 678.4 | 658.4 |
| 82.5° | 264.4 | 264.4 | 289.3 | 334.2 | 369.1 | 399.0 | 453.9 | 498.8 | 528.7 | 518.8 | 493.8 |
| 85° | 134.7 | 134.7 | 164.6 | 194.5 | 239.4 | 259.4 | 254.4 | 234.4 | 229.5 | 204.5 | 204.5 |
| 87.5° | 34.9 | 34.9 | 49.9 | 54.9 | 44.9 | 49.9 | 49.9 | 49.9 | 49.9 | 49.9 | 54.9 |
| 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)