

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: P459181

Luminaire Tested: **GALN-SA6D-735-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P459181
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-3)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: McGRAW-EDISON
Catalog Number: GALN-SA6D-735-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 44597 lumens
Efficiency: N/A
Efficacy: 121.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

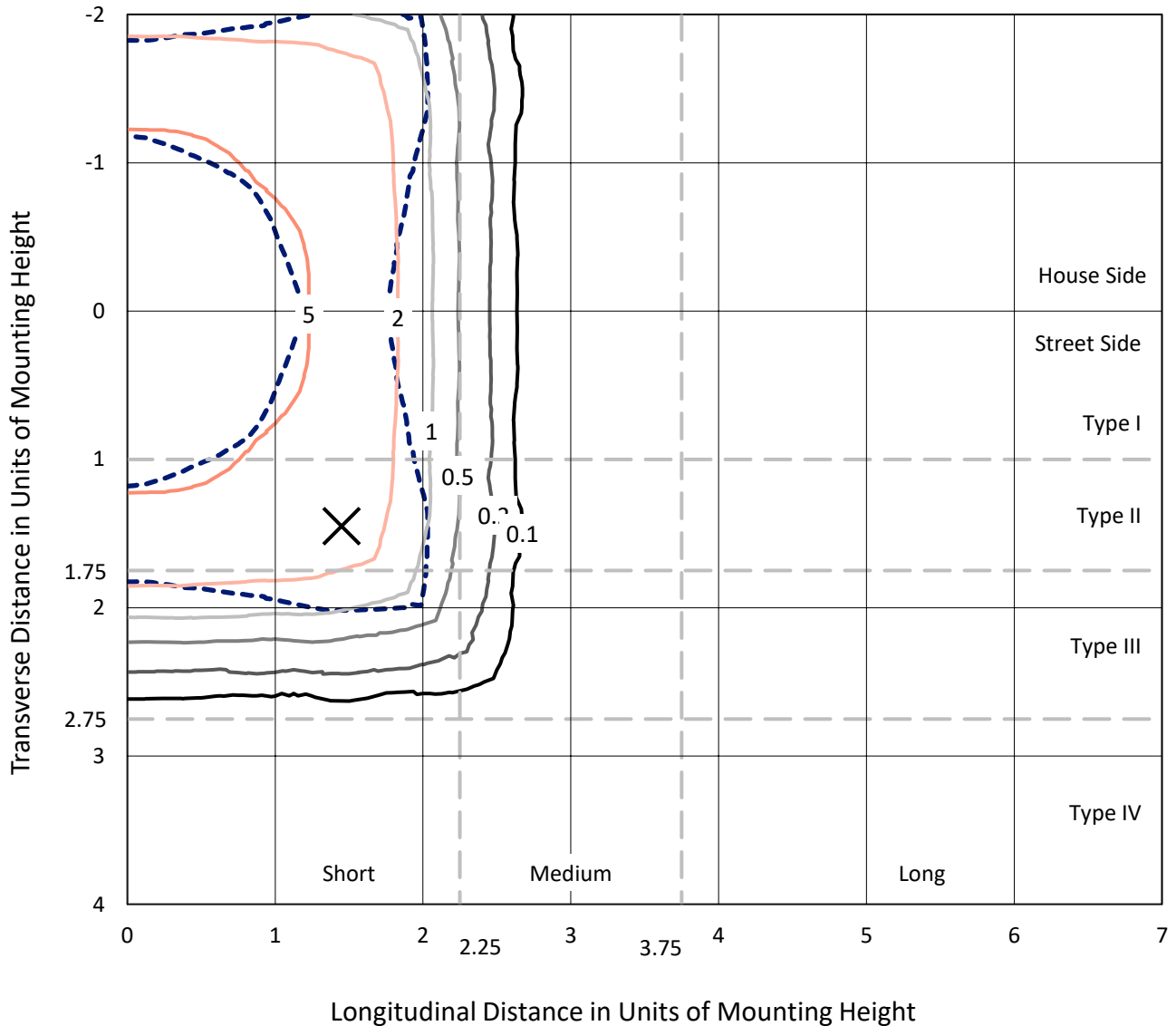
Input Watts (W): 368
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

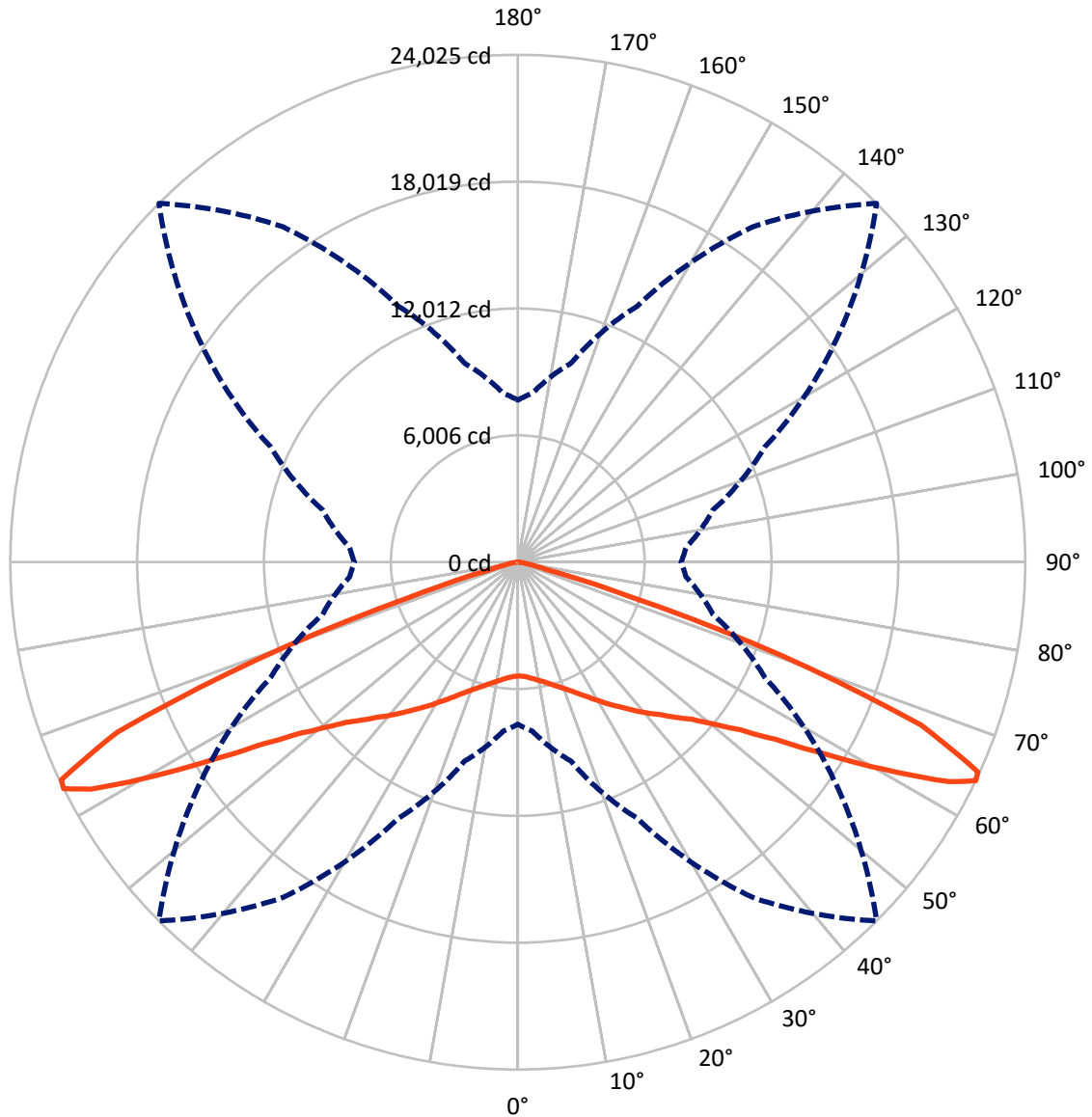
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 22298.5 | 0.0 | 22298.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 22298.5 | 0.0 | 22298.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 44597.0 | 0.0 | 44597.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 529.6 | 1.2 |
| 10°-20° | 1708.2 | 3.8 |
| 20°-30° | 3228.0 | 7.2 |
| 30°-40° | 5345.9 | 12.0 |
| 40°-50° | 8345.7 | 18.7 |
| 50°-60° | 12902.3 | 28.9 |
| 60°-70° | 11125.5 | 24.9 |
| 70°-80° | 1260.8 | 2.8 |
| 80°-90° | 151.1 | 0.3 |
| 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° | 44597.0 | 100.0 |
| 0°-180° | 44597.0 | 100.0 |

Coefficient of Utilization



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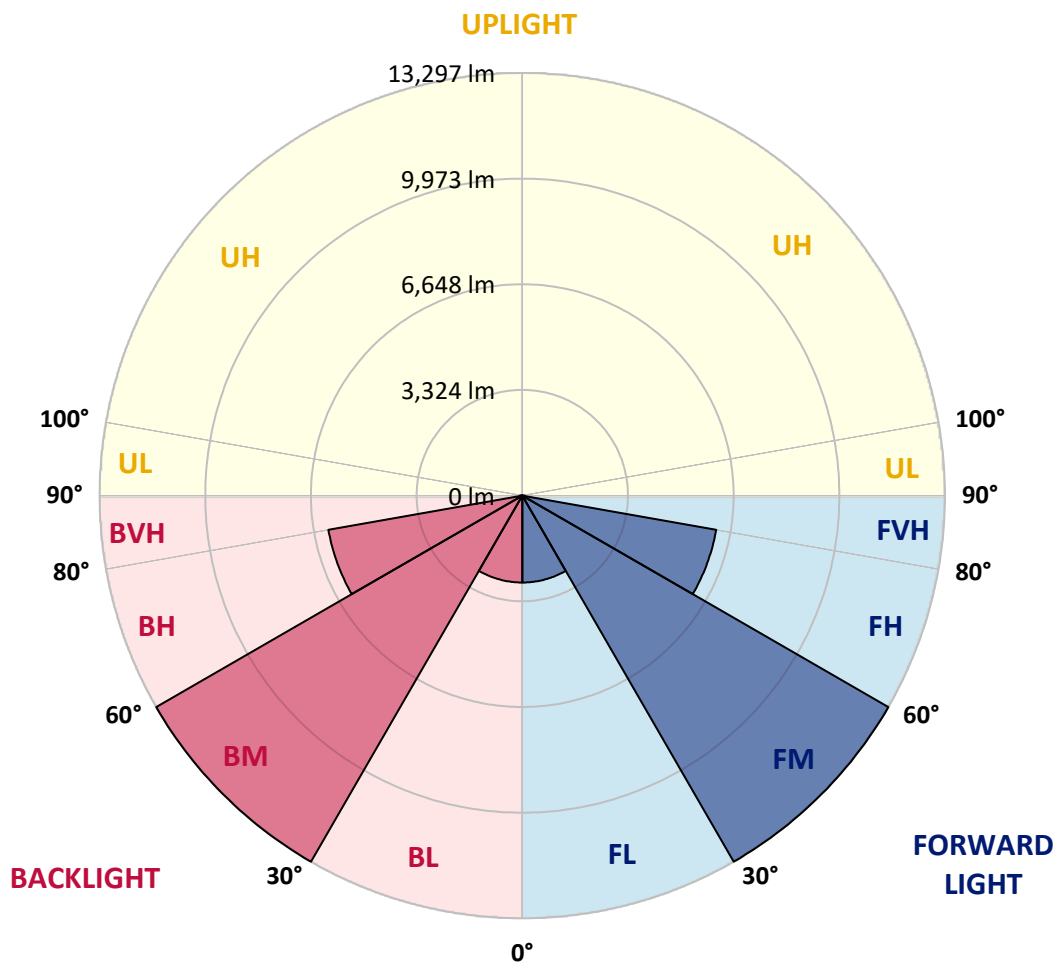
CATALOG NUMBER: GALN-SA6D-735-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2732.8 | 6.1 | | | |
| FM | (30°-60°) | 13297.0 | 29.8 | | | |
| FH | (60°-80°) | 6193.2 | 13.9 | | | G3/7500 |
| FVH | (80°-90°) | 75.5 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 2732.8 | 6.1 | B4/5000 | | |
| BM | (30°-60°) | 13297.0 | 29.8 | B5 | | |
| BH | (60°-80°) | 6193.2 | 13.9 | B5 | | G3/7500 |
| BVH | (80°-90°) | 75.5 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5390.3 | 5390.3 | 5390.3 | 5390.3 | 5390.3 | 5390.3 | 5390.3 | 5390.3 | 5390.3 | 5390.3 | 5390.3 |
| 2.5° | 5411.6 | 5423.4 | 5413.9 | 5411.6 | 5409.2 | 5409.2 | 5409.2 | 5411.6 | 5421.0 | 5428.1 | 5423.4 |
| 5° | 5480.1 | 5489.5 | 5484.8 | 5482.4 | 5480.1 | 5482.4 | 5477.7 | 5475.3 | 5482.4 | 5482.4 | 5480.1 |
| 7.5° | 5565.1 | 5576.9 | 5572.2 | 5576.9 | 5579.3 | 5581.6 | 5569.8 | 5560.4 | 5558.0 | 5565.1 | 5560.4 |
| 10° | 5680.8 | 5690.3 | 5692.6 | 5695.0 | 5699.7 | 5697.4 | 5683.2 | 5666.7 | 5664.3 | 5661.9 | 5659.6 |
| 12.5° | 5810.8 | 5817.8 | 5820.2 | 5829.6 | 5836.7 | 5839.1 | 5822.6 | 5808.4 | 5784.8 | 5789.5 | 5780.0 |
| 15° | 5957.2 | 5971.4 | 5969.0 | 5983.2 | 6002.1 | 6006.8 | 5990.3 | 5966.6 | 5945.4 | 5933.6 | 5926.5 |
| 17.5° | 6136.7 | 6146.2 | 6141.4 | 6155.6 | 6179.2 | 6191.0 | 6176.9 | 6146.2 | 6124.9 | 6098.9 | 6084.8 |
| 20° | 6349.3 | 6365.8 | 6370.6 | 6370.6 | 6391.8 | 6403.6 | 6382.4 | 6372.9 | 6339.9 | 6321.0 | 6309.2 |
| 22.5° | 6590.2 | 6597.3 | 6611.5 | 6625.7 | 6646.9 | 6642.2 | 6635.1 | 6620.9 | 6590.2 | 6573.7 | 6554.8 |
| 25° | 6861.9 | 6869.0 | 6904.4 | 6935.1 | 6942.2 | 6937.5 | 6928.0 | 6920.9 | 6892.6 | 6854.8 | 6840.6 |
| 27.5° | 7178.4 | 7192.6 | 7239.8 | 7268.2 | 7268.2 | 7270.5 | 7251.6 | 7275.2 | 7213.8 | 7169.0 | 7164.2 |
| 30° | 7575.2 | 7584.7 | 7624.8 | 7653.2 | 7639.0 | 7627.2 | 7622.5 | 7646.1 | 7580.0 | 7499.6 | 7480.8 |
| 32.5° | 7967.3 | 8000.4 | 8035.8 | 8097.3 | 8047.7 | 8026.4 | 8021.7 | 8038.2 | 7962.6 | 7872.9 | 7846.9 |
| 35° | 8387.8 | 8411.4 | 8477.6 | 8529.5 | 8484.6 | 8435.0 | 8456.3 | 8508.3 | 8418.5 | 8298.0 | 8293.3 |
| 37.5° | 8853.1 | 8874.4 | 8959.4 | 9013.7 | 8980.7 | 8895.6 | 8931.1 | 8992.5 | 8902.7 | 8753.9 | 8723.2 |
| 40° | 9337.4 | 9382.2 | 9488.5 | 9545.2 | 9490.9 | 9377.5 | 9443.6 | 9509.8 | 9429.5 | 9257.0 | 9188.5 |
| 42.5° | 9880.6 | 9951.5 | 10105.0 | 10133.4 | 10029.4 | 9875.9 | 9991.7 | 10097.9 | 10041.3 | 9842.8 | 9816.9 |
| 45° | 10516.0 | 10558.6 | 10747.5 | 10808.9 | 10664.9 | 10473.5 | 10617.6 | 10811.3 | 10768.8 | 10539.7 | 10490.1 |
| 47.5° | 11227.0 | 11267.2 | 11463.2 | 11555.4 | 11373.5 | 11116.0 | 11375.8 | 11628.6 | 11602.6 | 11356.9 | 11333.3 |
| 50° | 12067.9 | 12077.4 | 12349.0 | 12453.0 | 12271.1 | 12049.0 | 12280.5 | 12594.7 | 12490.8 | 12176.6 | 12171.9 |
| 52.5° | 12989.2 | 13001.0 | 13343.5 | 13544.2 | 13442.7 | 13192.3 | 13466.3 | 13657.6 | 13393.1 | 12982.1 | 12951.4 |
| 55° | 13787.5 | 13846.6 | 14314.3 | 14848.1 | 14987.5 | 14805.6 | 14888.3 | 14798.5 | 14146.6 | 13570.2 | 13480.5 |
| 57.5° | 14113.5 | 14229.3 | 14940.2 | 15937.0 | 16844.1 | 17113.4 | 16475.6 | 15620.5 | 14446.6 | 13631.6 | 13544.2 |
| 60° | 13317.5 | 13442.7 | 14545.8 | 16437.8 | 18752.7 | 19921.9 | 18129.1 | 15759.9 | 13763.9 | 12618.3 | 12481.3 |
| 62.5° | 10664.9 | 10700.3 | 12323.0 | 15259.1 | 19865.2 | 22893.4 | 18825.9 | 14571.8 | 11777.4 | 10220.8 | 10166.5 |
| 64° | 7674.4 | 8038.2 | 9757.8 | 13378.9 | 19378.6 | 24024.9 | 18424.3 | 12906.5 | 9566.5 | 7991.0 | 7735.9 |
| 65° | 5739.9 | 5839.1 | 7865.8 | 11425.4 | 18521.2 | 23939.8 | 17644.8 | 11314.4 | 7922.5 | 6115.5 | 5832.0 |
| 67.5° | 2168.4 | 2180.2 | 2903.0 | 5695.0 | 13185.2 | 20597.5 | 13466.3 | 6155.6 | 3337.6 | 2414.1 | 2326.7 |
| 70° | 900.0 | 916.5 | 1065.3 | 1915.7 | 5666.7 | 13225.4 | 6493.4 | 2220.4 | 1221.2 | 989.7 | 975.5 |
| 72.5° | 659.0 | 668.5 | 713.4 | 850.4 | 1743.2 | 5430.5 | 2135.3 | 942.5 | 715.7 | 640.1 | 633.0 |
| 75° | 517.3 | 522.0 | 555.1 | 626.0 | 812.6 | 1504.7 | 888.1 | 647.2 | 545.6 | 491.3 | 486.6 |
| 77.5° | 394.5 | 406.3 | 429.9 | 477.1 | 545.6 | 713.4 | 588.2 | 484.2 | 420.5 | 375.6 | 368.5 |
| 80° | 271.6 | 285.8 | 330.7 | 349.6 | 366.1 | 463.0 | 401.6 | 366.1 | 328.3 | 274.0 | 257.5 |
| 82.5° | 167.7 | 177.2 | 222.0 | 238.6 | 231.5 | 259.8 | 257.5 | 262.2 | 233.8 | 170.1 | 158.3 |
| 85° | 87.4 | 92.1 | 120.5 | 125.2 | 115.7 | 106.3 | 132.3 | 153.5 | 144.1 | 96.8 | 94.5 |
| 87.5° | 18.9 | 21.3 | 26.0 | 23.6 | 26.0 | 26.0 | 33.1 | 49.6 | 52.0 | 33.1 | 30.7 |
| 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)