

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: P455497

Luminaire Tested: **GALN-SA6D-722-U-5MQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455497
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-2)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6D-722-U-5MQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 2200K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
MEDIUM OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 35369 lumens
Efficiency: N/A
Efficacy: 96.1 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

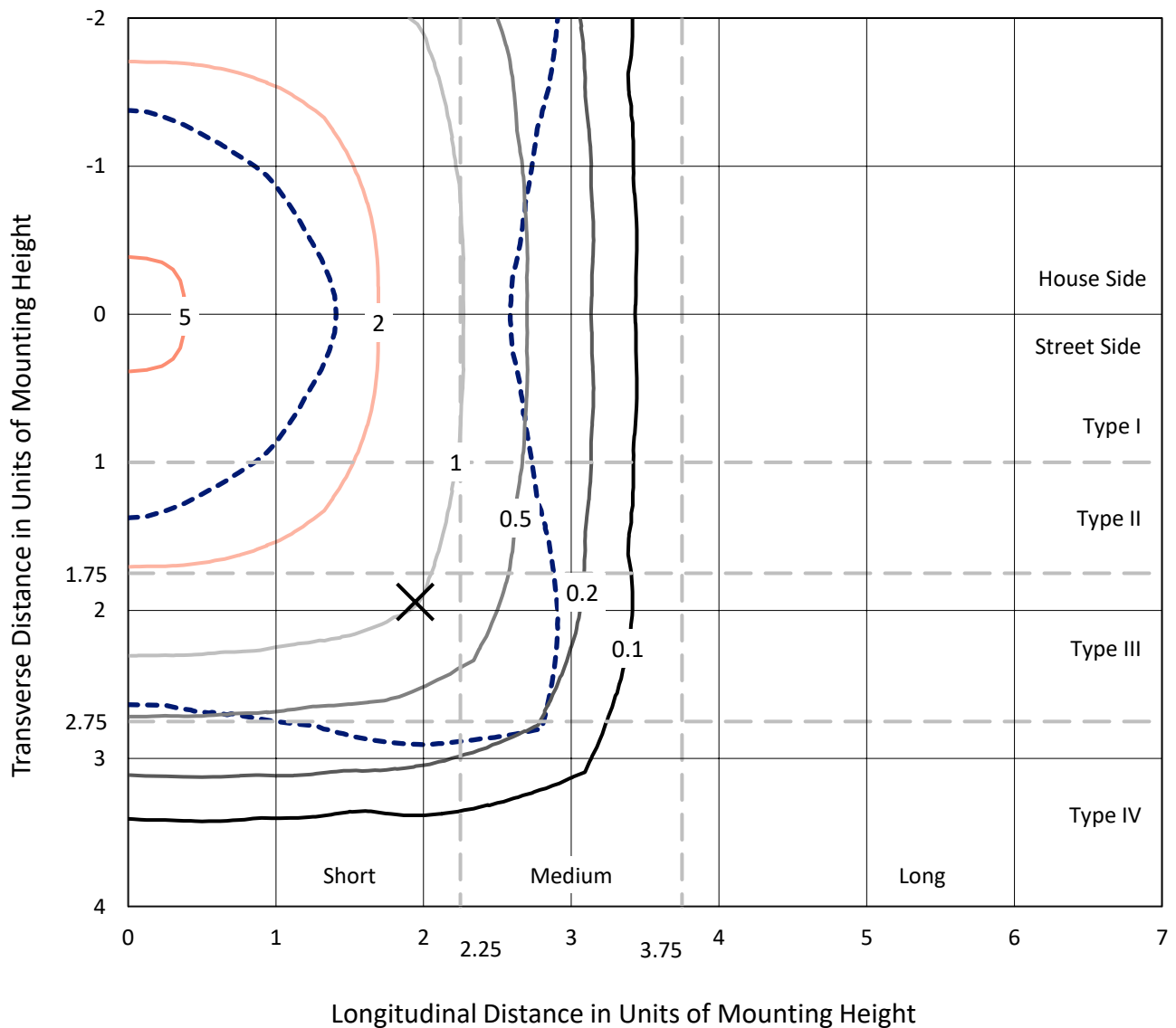
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

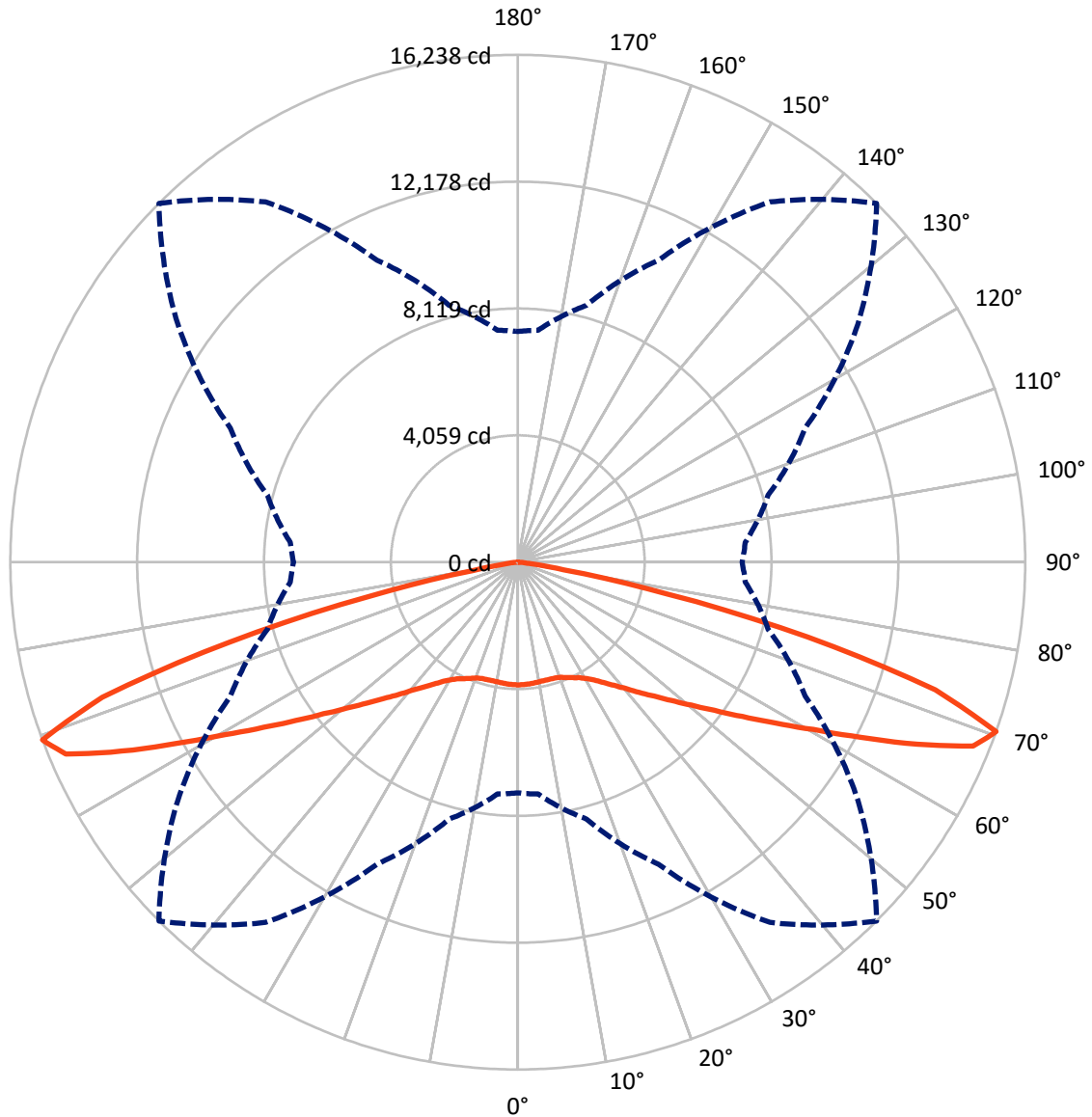
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 17684.5 | 0.0 | 17684.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 17684.5 | 0.0 | 17684.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 35369.0 | 0.0 | 35369.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 372.4 | 1.1 |
| 10°-20° | 1092.9 | 3.1 |
| 20°-30° | 1869.2 | 5.3 |
| 30°-40° | 2966.8 | 8.4 |
| 40°-50° | 4786.3 | 13.5 |
| 50°-60° | 7787.4 | 22.0 |
| 60°-70° | 11289.0 | 31.9 |
| 70°-80° | 5007.4 | 14.2 |
| 80°-90° | 197.5 | 0.6 |
| 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° | 35369.0 | 100.0 |
| 0°-180° | 35369.0 | 100.0 |



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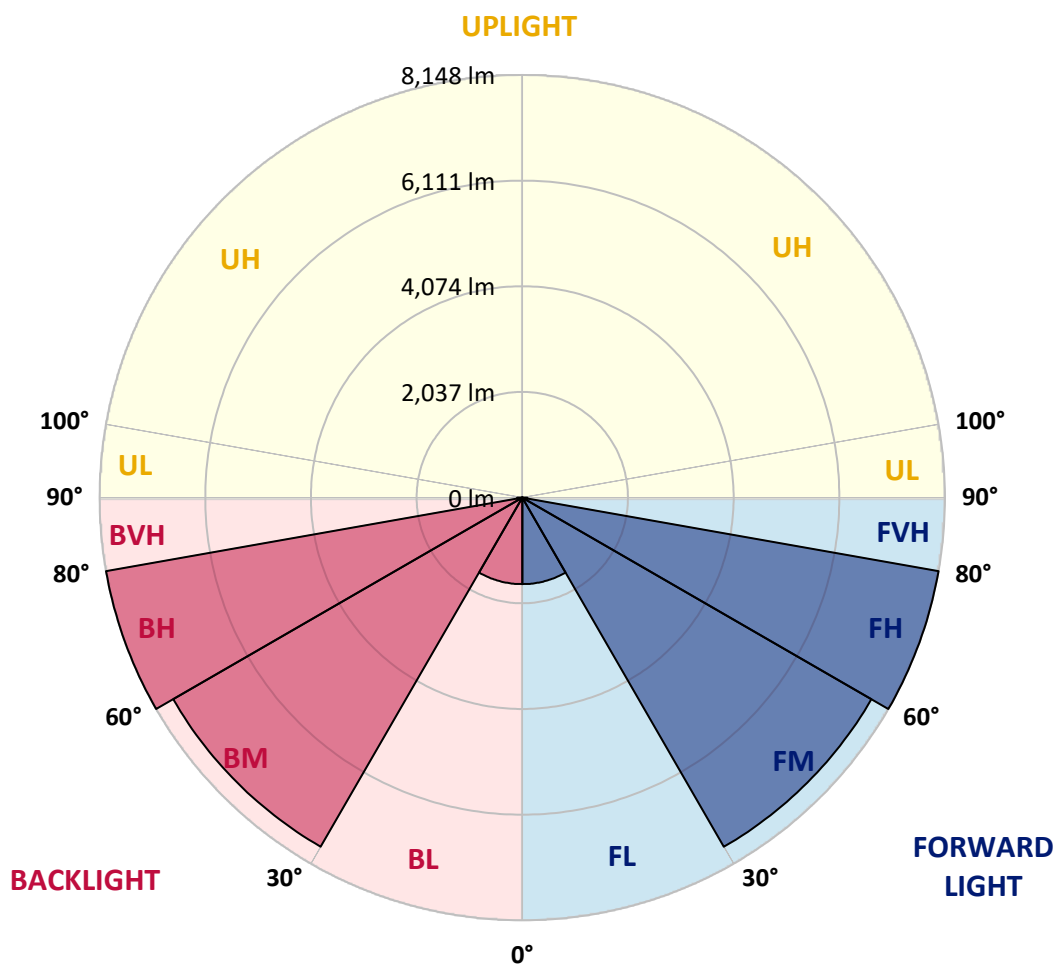
CATALOG NUMBER: GALN-SA6D-722-U-5MQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1667.3 | 4.7 | | | |
| FM (30°-60°) | 7770.3 | 22.0 | | | |
| FH (60°-80°) | 8148.2 | 23.0 | | | G4/12000 |
| FVH (80°-90°) | 98.8 | 0.3 | | | G1/100 |
| BL (0°-30°) | 1667.3 | 4.7 | B3/2500 | | |
| BM (30°-60°) | 7770.3 | 22.0 | B4/8500 | | |
| BH (60°-80°) | 8148.2 | 23.0 | B5 | | G4/12000 |
| BVH (80°-90°) | 98.8 | 0.3 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 3927.6 | 3927.6 | 3927.6 | 3927.6 | 3927.6 | 3927.6 | 3927.6 | 3927.6 | 3927.6 | 3927.6 | 3927.6 |
| 2.5° | 3927.6 | 3931.3 | 3925.7 | 3922.0 | 3920.1 | 3920.1 | 3918.2 | 3920.1 | 3931.3 | 3933.2 | 3927.6 |
| 5° | 3916.4 | 3920.1 | 3918.2 | 3914.5 | 3912.6 | 3912.6 | 3910.8 | 3908.9 | 3918.2 | 3922.0 | 3920.1 |
| 7.5° | 3901.5 | 3903.3 | 3901.5 | 3899.6 | 3901.5 | 3899.6 | 3894.0 | 3890.3 | 3897.7 | 3897.7 | 3895.9 |
| 10° | 3875.4 | 3879.1 | 3877.2 | 3879.1 | 3882.8 | 3882.8 | 3875.4 | 3867.9 | 3869.8 | 3866.0 | 3866.0 |
| 12.5° | 3843.7 | 3849.3 | 3851.1 | 3858.6 | 3867.9 | 3879.1 | 3862.3 | 3845.5 | 3841.8 | 3840.0 | 3838.1 |
| 15° | 3823.2 | 3828.8 | 3836.2 | 3843.7 | 3860.5 | 3884.7 | 3860.5 | 3834.4 | 3826.9 | 3819.4 | 3815.7 |
| 17.5° | 3817.6 | 3825.0 | 3836.2 | 3847.4 | 3869.8 | 3894.0 | 3873.5 | 3847.4 | 3828.8 | 3817.6 | 3813.9 |
| 20° | 3832.5 | 3838.1 | 3854.9 | 3875.4 | 3907.1 | 3931.3 | 3910.8 | 3882.8 | 3854.9 | 3838.1 | 3832.5 |
| 22.5° | 3862.3 | 3871.6 | 3892.1 | 3929.4 | 3974.2 | 4009.6 | 3981.6 | 3935.0 | 3890.3 | 3867.9 | 3860.5 |
| 25° | 3927.6 | 3935.0 | 3959.2 | 4009.6 | 4061.8 | 4095.3 | 4065.5 | 4011.4 | 3949.9 | 3920.1 | 3910.8 |
| 27.5° | 4026.4 | 4037.5 | 4063.6 | 4123.3 | 4166.2 | 4184.8 | 4164.3 | 4127.0 | 4082.3 | 4050.6 | 4043.1 |
| 30° | 4166.2 | 4179.2 | 4218.4 | 4281.7 | 4309.7 | 4320.9 | 4311.6 | 4287.3 | 4255.6 | 4222.1 | 4214.6 |
| 32.5° | 4354.4 | 4361.9 | 4406.6 | 4466.3 | 4492.4 | 4496.1 | 4484.9 | 4473.7 | 4421.5 | 4365.6 | 4361.9 |
| 35° | 4565.1 | 4578.1 | 4632.2 | 4703.0 | 4727.2 | 4729.1 | 4706.7 | 4690.0 | 4628.4 | 4583.7 | 4583.7 |
| 37.5° | 4844.7 | 4850.3 | 4902.5 | 4982.6 | 5008.7 | 5001.3 | 4990.1 | 4975.2 | 4909.9 | 4852.1 | 4854.0 |
| 40° | 5172.7 | 5183.9 | 5228.7 | 5321.9 | 5321.9 | 5312.6 | 5320.0 | 5308.8 | 5243.6 | 5187.7 | 5189.5 |
| 42.5° | 5562.3 | 5567.9 | 5622.0 | 5720.8 | 5713.3 | 5694.7 | 5702.1 | 5687.2 | 5646.2 | 5582.8 | 5560.5 |
| 45° | 5978.0 | 6000.4 | 6093.6 | 6188.7 | 6173.7 | 6114.1 | 6143.9 | 6140.2 | 6102.9 | 6007.8 | 6013.4 |
| 47.5° | 6479.5 | 6516.7 | 6606.2 | 6719.9 | 6703.1 | 6609.9 | 6643.5 | 6665.9 | 6613.7 | 6509.3 | 6490.6 |
| 50° | 7044.3 | 7068.5 | 7200.8 | 7307.1 | 7292.2 | 7193.4 | 7269.8 | 7273.5 | 7143.1 | 6995.8 | 6995.8 |
| 52.5° | 7646.3 | 7670.6 | 7849.5 | 8015.4 | 8024.8 | 7881.2 | 7942.7 | 7939.0 | 7726.5 | 7532.6 | 7495.4 |
| 55° | 8321.1 | 8332.3 | 8563.5 | 8807.7 | 8859.8 | 8720.0 | 8727.5 | 8652.9 | 8377.1 | 8151.5 | 8131.0 |
| 57.5° | 9018.3 | 9059.3 | 9314.7 | 9631.6 | 9786.3 | 9700.5 | 9661.4 | 9461.9 | 9195.4 | 8936.3 | 8923.2 |
| 60° | 9790.0 | 9791.9 | 10123.7 | 10498.3 | 10811.5 | 10869.3 | 10709.0 | 10442.4 | 10097.6 | 9754.6 | 9739.7 |
| 62.5° | 10325.0 | 10405.1 | 10824.6 | 11458.3 | 12019.4 | 12343.8 | 11920.6 | 11361.4 | 10682.9 | 10129.3 | 10073.3 |
| 65° | 10435.0 | 10489.0 | 11128.4 | 12202.1 | 13348.5 | 14047.5 | 13068.9 | 11879.6 | 10722.0 | 9983.9 | 9946.6 |
| 67.5° | 9545.8 | 9603.6 | 10464.8 | 12112.6 | 14280.5 | 15714.0 | 13814.5 | 11629.8 | 10058.4 | 9145.0 | 9072.3 |
| 70° | 7383.5 | 7448.8 | 8513.1 | 10662.4 | 14073.6 | 16237.8 | 13283.2 | 10144.2 | 8295.0 | 7309.0 | 7176.6 |
| 72.5° | 3925.7 | 4166.2 | 5075.8 | 7318.3 | 11422.9 | 13980.4 | 10891.7 | 7402.2 | 5349.8 | 4373.1 | 4197.8 |
| 75° | 1433.5 | 1463.3 | 1970.3 | 3245.3 | 6645.4 | 9586.8 | 6900.7 | 3530.5 | 2030.0 | 1567.7 | 1487.5 |
| 77.5° | 592.8 | 590.9 | 648.7 | 980.5 | 2413.9 | 4909.9 | 2693.6 | 1036.4 | 646.8 | 598.4 | 590.9 |
| 80° | 350.4 | 350.4 | 385.9 | 408.2 | 635.6 | 1481.9 | 710.2 | 462.3 | 387.7 | 354.2 | 359.8 |
| 82.5° | 156.6 | 165.9 | 244.2 | 257.2 | 307.6 | 406.4 | 343.0 | 294.5 | 253.5 | 175.2 | 158.4 |
| 85° | 85.7 | 74.6 | 128.6 | 134.2 | 147.3 | 151.0 | 162.2 | 160.3 | 147.3 | 85.7 | 87.6 |
| 87.5° | 16.8 | 20.5 | 37.3 | 28.0 | 31.7 | 28.0 | 37.3 | 52.2 | 54.1 | 29.8 | 24.2 |
| 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)