

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: STREETWORKS

Report Number: P455759

Luminaire Tested: **GLAN-SA7A-727-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455759
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: STREETWORKS
Catalog Number: GLAN-SA7A-727-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(7) 70 CRI, 2700K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 27801 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B4 - U0 - G2

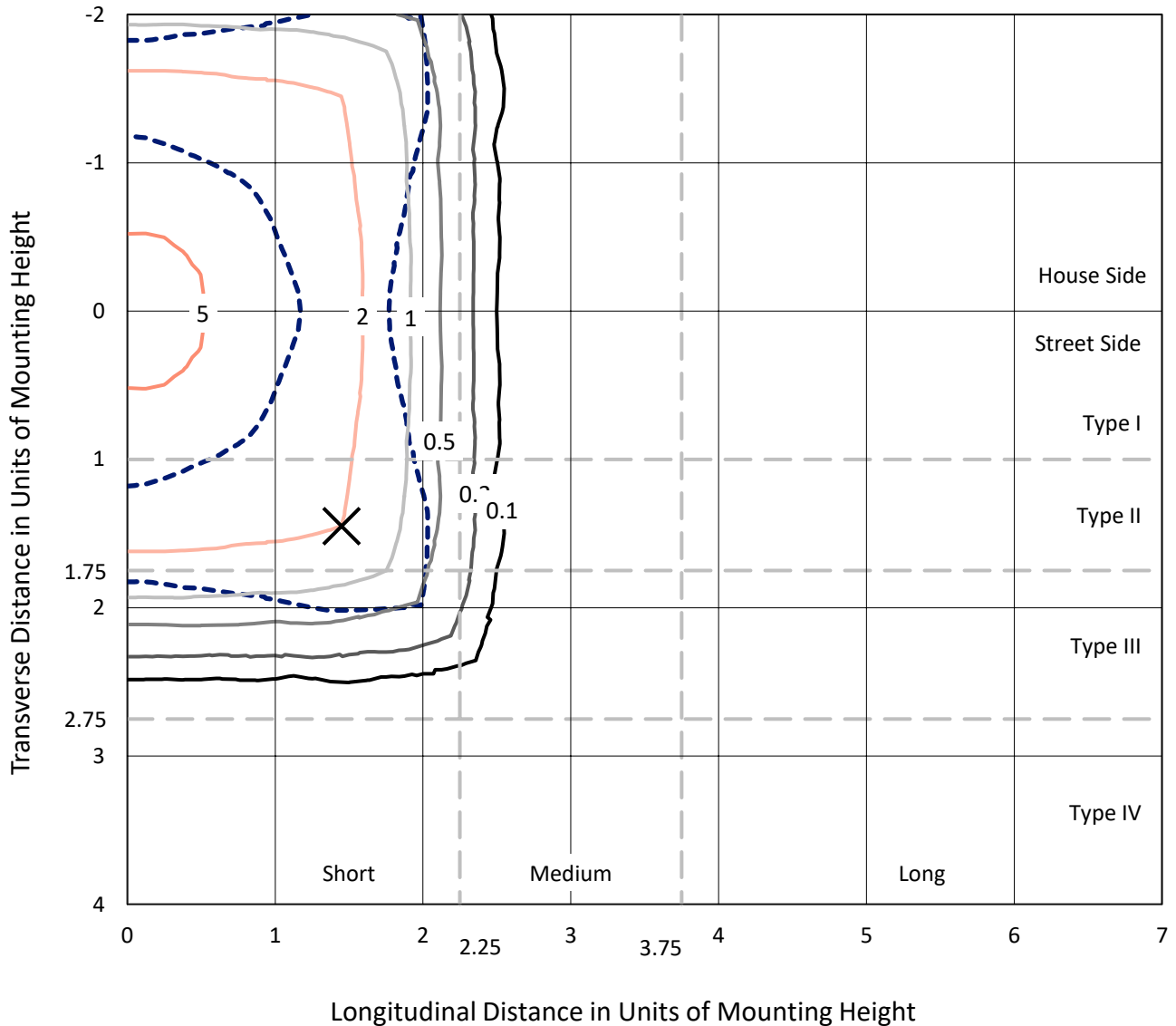
Input Watts (W): 215
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

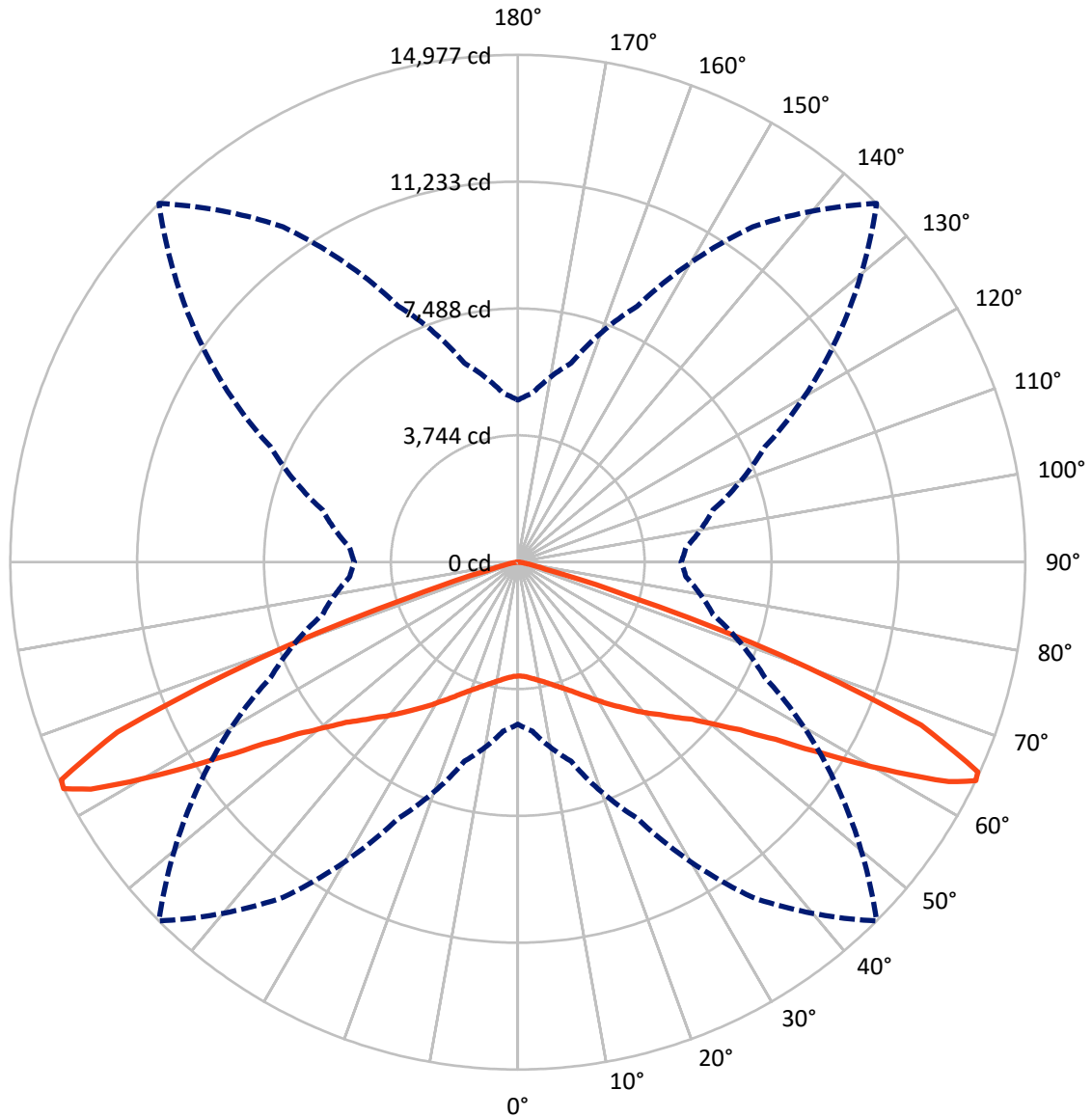
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 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 | 13900.5 | 0.0 | 13900.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 13900.5 | 0.0 | 13900.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 27801.0 | 0.0 | 27801.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 330.1 | 1.2 |
| 10°-20° | 1064.8 | 3.8 |
| 20°-30° | 2012.2 | 7.2 |
| 30°-40° | 3332.5 | 12.0 |
| 40°-50° | 5202.6 | 18.7 |
| 50°-60° | 8043.1 | 28.9 |
| 60°-70° | 6935.5 | 24.9 |
| 70°-80° | 786.0 | 2.8 |
| 80°-90° | 94.2 | 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° | 27801.0 | 100.0 |
| 0°-180° | 27801.0 | 100.0 |

Coefficient of Utilization



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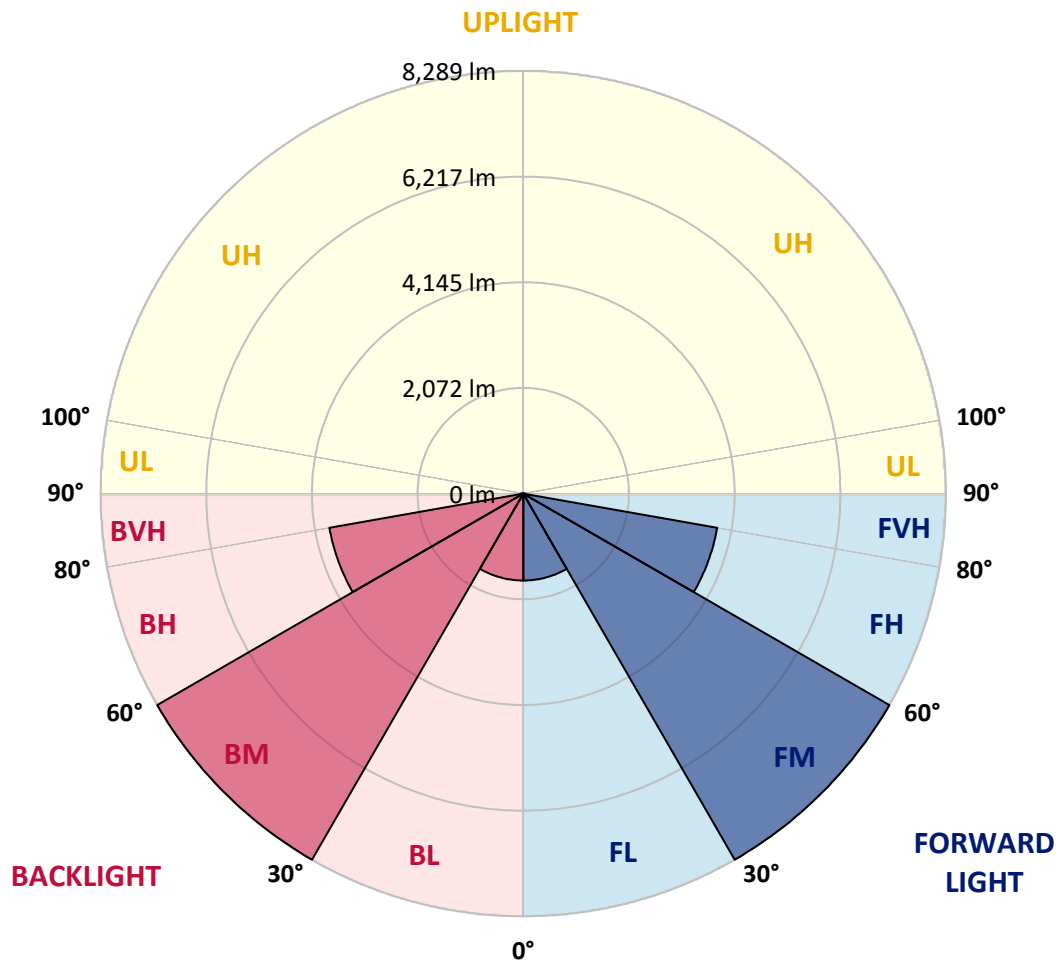
CATALOG NUMBER: GLAN-SA7A-727-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1703.6 | 6.1 | | | |
| FM (30°-60°) | 8289.1 | 29.8 | | | |
| FH (60°-80°) | 3860.7 | 13.9 | | | G2/5000 |
| FVH (80°-90°) | 47.1 | 0.2 | | | G1/100 |
| BL (0°-30°) | 1703.6 | 6.1 | B3/2500 | | |
| BM (30°-60°) | 8289.1 | 29.8 | B4/8500 | | |
| BH (60°-80°) | 3860.7 | 13.9 | B4/5000 | | G2/5000 |
| BVH (80°-90°) | 47.1 | 0.2 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|---------|---------|---------|---------|--------|--------|--------|--------|
| 0° | 3360.2 | 3360.2 | 3360.2 | 3360.2 | 3360.2 | 3360.2 | 3360.2 | 3360.2 | 3360.2 | 3360.2 | 3360.2 |
| 2.5° | 3373.5 | 3380.8 | 3374.9 | 3373.5 | 3372.0 | 3372.0 | 3372.0 | 3373.5 | 3379.4 | 3383.8 | 3380.8 |
| 5° | 3416.2 | 3422.1 | 3419.1 | 3417.6 | 3416.2 | 3417.6 | 3414.7 | 3413.2 | 3417.6 | 3417.6 | 3416.2 |
| 7.5° | 3469.2 | 3476.5 | 3473.6 | 3476.5 | 3478.0 | 3479.5 | 3472.1 | 3466.2 | 3464.8 | 3469.2 | 3466.2 |
| 10° | 3541.3 | 3547.2 | 3548.7 | 3550.2 | 3553.1 | 3551.6 | 3542.8 | 3532.5 | 3531.0 | 3529.6 | 3528.1 |
| 12.5° | 3622.3 | 3626.7 | 3628.2 | 3634.1 | 3638.5 | 3640.0 | 3629.7 | 3620.8 | 3606.1 | 3609.1 | 3603.2 |
| 15° | 3713.6 | 3722.5 | 3721.0 | 3729.8 | 3741.6 | 3744.5 | 3734.2 | 3719.5 | 3706.3 | 3698.9 | 3694.5 |
| 17.5° | 3825.5 | 3831.4 | 3828.5 | 3837.3 | 3852.0 | 3859.4 | 3850.6 | 3831.4 | 3818.2 | 3802.0 | 3793.1 |
| 20° | 3958.0 | 3968.4 | 3971.3 | 3971.3 | 3984.6 | 3991.9 | 3978.7 | 3972.8 | 3952.2 | 3940.4 | 3933.0 |
| 22.5° | 4108.2 | 4112.7 | 4121.5 | 4130.3 | 4143.6 | 4140.6 | 4136.2 | 4127.4 | 4108.2 | 4097.9 | 4086.2 |
| 25° | 4277.6 | 4282.0 | 4304.1 | 4323.2 | 4327.6 | 4324.7 | 4318.8 | 4314.4 | 4296.7 | 4273.2 | 4264.3 |
| 27.5° | 4474.9 | 4483.7 | 4513.2 | 4530.8 | 4530.8 | 4532.3 | 4520.5 | 4535.3 | 4497.0 | 4469.0 | 4466.1 |
| 30° | 4722.3 | 4728.2 | 4753.2 | 4770.9 | 4762.0 | 4754.7 | 4751.7 | 4766.4 | 4725.2 | 4675.2 | 4663.4 |
| 32.5° | 4966.7 | 4987.3 | 5009.4 | 5047.7 | 5016.8 | 5003.5 | 5000.6 | 5010.9 | 4963.8 | 4907.8 | 4891.6 |
| 35° | 5228.8 | 5243.5 | 5284.8 | 5317.2 | 5289.2 | 5258.3 | 5271.5 | 5303.9 | 5247.9 | 5172.9 | 5169.9 |
| 37.5° | 5518.9 | 5532.1 | 5585.1 | 5619.0 | 5598.4 | 5545.4 | 5567.5 | 5605.8 | 5549.8 | 5457.0 | 5437.9 |
| 40° | 5820.7 | 5848.7 | 5915.0 | 5950.3 | 5916.5 | 5845.8 | 5887.0 | 5928.2 | 5878.2 | 5770.7 | 5728.0 |
| 42.5° | 6159.4 | 6203.6 | 6299.3 | 6317.0 | 6252.2 | 6156.5 | 6228.6 | 6294.9 | 6259.5 | 6135.9 | 6119.7 |
| 45° | 6555.5 | 6582.0 | 6699.8 | 6738.1 | 6648.3 | 6529.0 | 6618.8 | 6739.6 | 6713.1 | 6570.2 | 6539.3 |
| 47.5° | 6998.7 | 7023.8 | 7146.0 | 7203.4 | 7090.0 | 6929.5 | 7091.5 | 7249.1 | 7232.9 | 7079.7 | 7065.0 |
| 50° | 7522.9 | 7528.8 | 7698.2 | 7763.0 | 7649.6 | 7511.2 | 7655.5 | 7851.3 | 7786.5 | 7590.7 | 7587.7 |
| 52.5° | 8097.2 | 8104.6 | 8318.1 | 8443.2 | 8379.9 | 8223.8 | 8394.7 | 8513.9 | 8349.0 | 8092.8 | 8073.7 |
| 55° | 8594.9 | 8631.7 | 8923.3 | 9256.1 | 9342.9 | 9229.6 | 9281.1 | 9225.1 | 8818.7 | 8459.4 | 8403.5 |
| 57.5° | 8798.1 | 8870.3 | 9313.5 | 9934.9 | 10500.3 | 10668.2 | 10270.6 | 9737.6 | 9005.7 | 8497.7 | 8443.2 |
| 60° | 8301.9 | 8379.9 | 9067.6 | 10247.0 | 11690.1 | 12419.0 | 11301.3 | 9824.4 | 8580.2 | 7866.0 | 7780.6 |
| 62.5° | 6648.3 | 6670.4 | 7682.0 | 9512.3 | 12383.6 | 14271.4 | 11735.7 | 9083.8 | 7341.8 | 6371.5 | 6337.6 |
| 64° | 4784.1 | 5010.9 | 6082.8 | 8340.2 | 12080.3 | 14976.7 | 11485.4 | 8045.7 | 5963.6 | 4981.4 | 4822.4 |
| 65° | 3578.1 | 3640.0 | 4903.4 | 7122.4 | 11545.8 | 14923.7 | 10999.5 | 7053.2 | 4938.7 | 3812.3 | 3635.6 |
| 67.5° | 1351.7 | 1359.1 | 1809.7 | 3550.2 | 8219.4 | 12840.1 | 8394.7 | 3837.3 | 2080.6 | 1504.9 | 1450.4 |
| 70° | 561.0 | 571.3 | 664.1 | 1194.2 | 3532.5 | 8244.5 | 4047.9 | 1384.1 | 761.3 | 617.0 | 608.1 |
| 72.5° | 410.8 | 416.7 | 444.7 | 530.1 | 1086.7 | 3385.3 | 1331.1 | 587.5 | 446.2 | 399.0 | 394.6 |
| 75° | 322.5 | 325.4 | 346.0 | 390.2 | 506.5 | 938.0 | 553.7 | 403.5 | 340.1 | 306.3 | 303.3 |
| 77.5° | 245.9 | 253.3 | 268.0 | 297.4 | 340.1 | 444.7 | 366.6 | 301.9 | 262.1 | 234.1 | 229.7 |
| 80° | 169.3 | 178.2 | 206.1 | 217.9 | 228.2 | 288.6 | 250.3 | 228.2 | 204.7 | 170.8 | 160.5 |
| 82.5° | 104.5 | 110.4 | 138.4 | 148.7 | 144.3 | 162.0 | 160.5 | 163.4 | 145.8 | 106.0 | 98.7 |
| 85° | 54.5 | 57.4 | 75.1 | 78.0 | 72.2 | 66.3 | 82.5 | 95.7 | 89.8 | 60.4 | 58.9 |
| 87.5° | 11.8 | 13.3 | 16.2 | 14.7 | 16.2 | 16.2 | 20.6 | 30.9 | 32.4 | 20.6 | 19.1 |
| 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)