

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: P533065

Luminaire Tested: **GLAN-SA8C-727-U-RW-GRSBK**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P533065
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-7)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA8C-727-U-RW-GRSBK
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 2700K, 1050mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR
WIDE OPTICS WITH BLACK GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 30683 lumens
Efficiency: N/A
Efficacy: 71.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

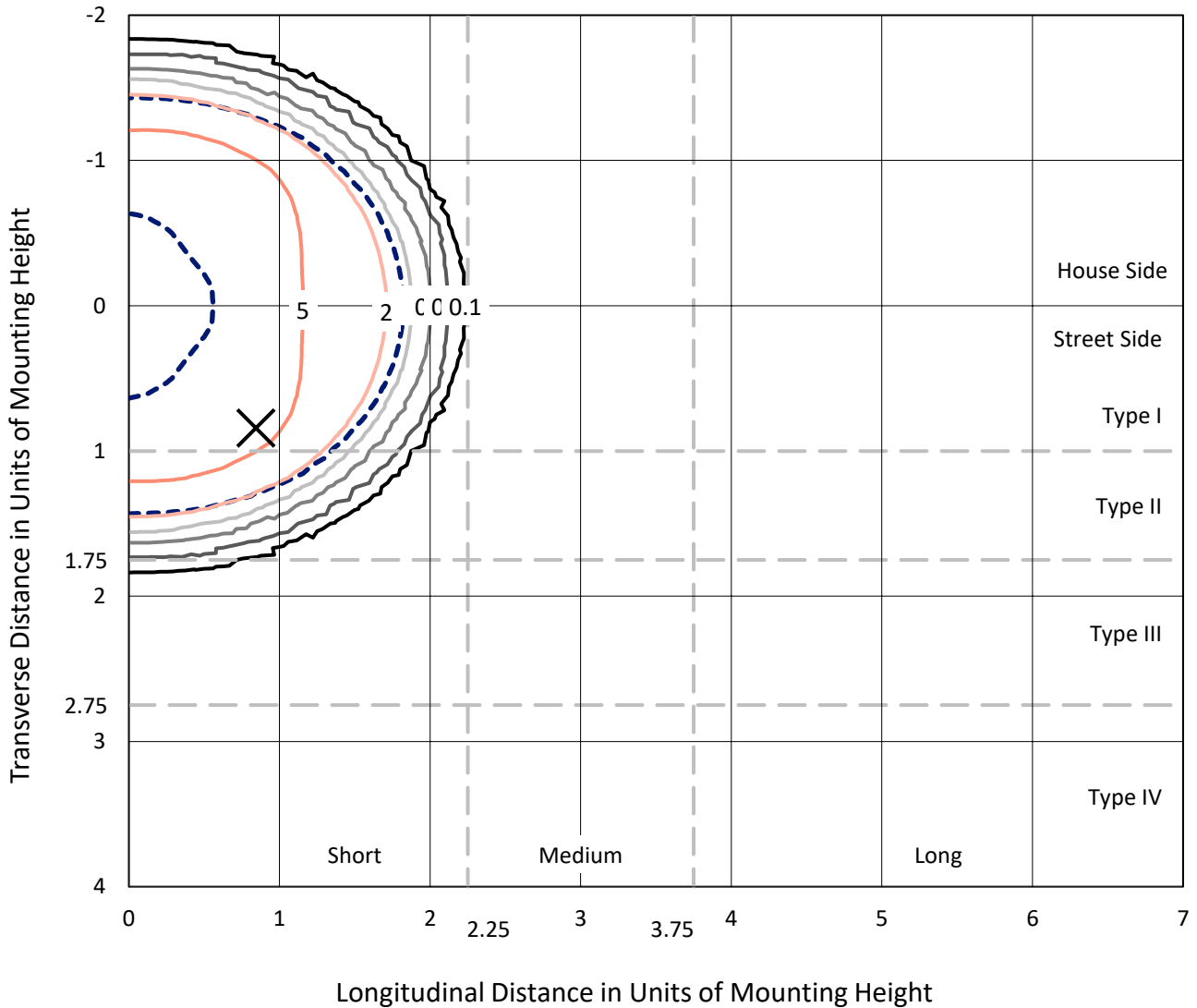
Input Watts (W): 429
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P533065
 CATALOG NUMBER: GLAN-SA8C-727-U-RW-GRSBK

Iso-Footcandle Lines of Horizontal Illumination

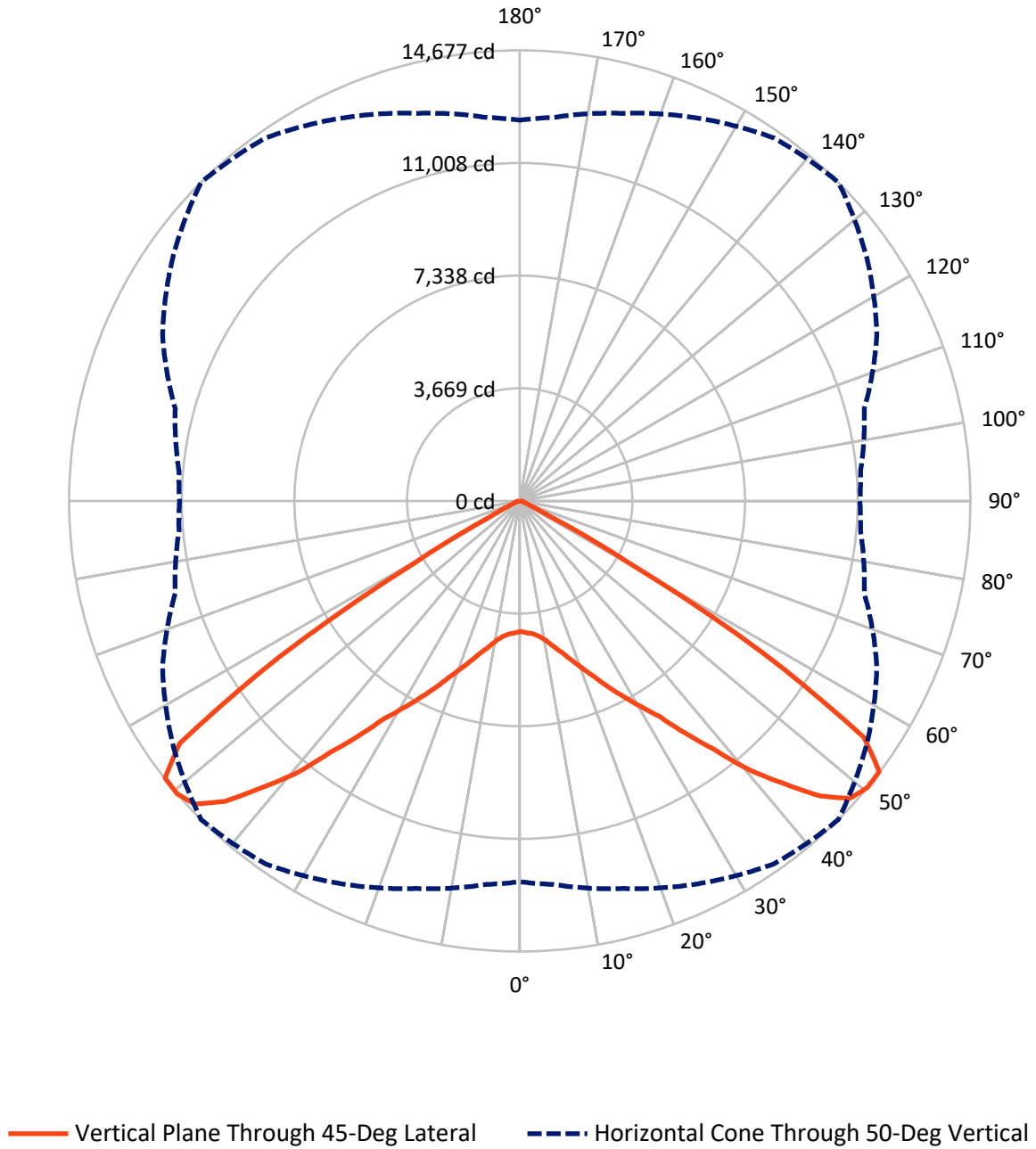
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.2 fc
 Type V - Short - N/A

REPORT NUMBER: P533065
CATALOG NUMBER: GLAN-SA8C-727-U-RW-GRSBK

Luminous Intensity Polar Plot



REPORT NUMBER: P533065
 CATALOG NUMBER: GLAN-SA8C-727-U-RW-GRSBK

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 15341.5 | 0.0 | 15341.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 15341.5 | 0.0 | 15341.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 30683.0 | 0.0 | 30683.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 423.2 | 1.4 |
| 10°-20° | 1458.6 | 4.8 |
| 20°-30° | 2979.0 | 9.7 |
| 30°-40° | 5680.9 | 18.5 |
| 40°-50° | 9573.2 | 31.2 |
| 50°-60° | 9129.7 | 29.8 |
| 60°-70° | 1274.5 | 4.2 |
| 70°-80° | 121.9 | 0.4 |
| 80°-90° | 42.1 | 0.1 |
| 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° | 30683.0 | 100.0 |
| 0°-180° | 30683.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P533065

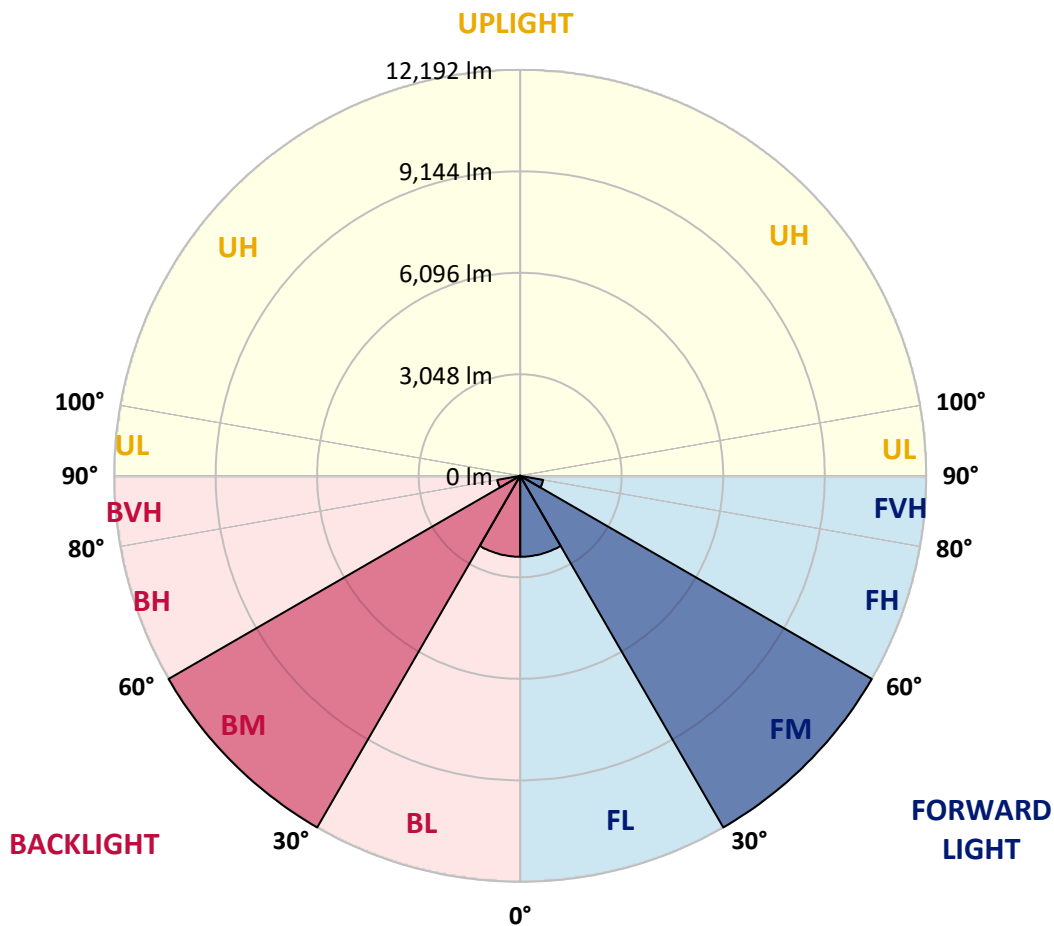
CATALOG NUMBER: GLAN-SA8C-727-U-RW-GRSBK

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 2430.4 | 7.9 | | | |
| FM (30°-60°) | 12191.9 | 39.7 | | | |
| FH (60°-80°) | 698.2 | 2.3 | | | G1/1800 |
| FVH (80°-90°) | 21.1 | 0.1 | | | G1/100 |
| BL (0°-30°) | 2430.4 | 7.9 | B3/2500 | | |
| BM (30°-60°) | 12191.9 | 39.7 | B5 | | |
| BH (60°-80°) | 698.2 | 2.3 | B2/1000 | | G1/1800 |
| BVH (80°-90°) | 21.1 | 0.1 | | | G1/100 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G1

Type V Short





REPORT NUMBER: P533065

CATALOG NUMBER: GLAN-SA8C-727-U-RW-GRSBK

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4253.9 | 4253.9 | 4253.9 | 4253.9 | 4253.9 | 4253.9 | 4253.9 | 4253.9 | 4253.9 | 4253.9 | 4253.9 |
| 2.5° | 4238.4 | 4238.4 | 4233.2 | 4274.5 | 4253.9 | 4300.3 | 4295.2 | 4310.6 | 4326.1 | 4321.0 | 4362.3 |
| 5° | 4202.2 | 4197.1 | 4197.1 | 4243.5 | 4290.0 | 4341.6 | 4388.1 | 4419.1 | 4470.7 | 4470.7 | 4522.3 |
| 7.5° | 4238.4 | 4212.6 | 4248.7 | 4269.3 | 4357.1 | 4444.9 | 4522.3 | 4584.3 | 4703.0 | 4744.3 | 4728.8 |
| 10° | 4248.7 | 4279.7 | 4305.5 | 4367.4 | 4475.8 | 4610.1 | 4677.2 | 4832.1 | 4966.3 | 5059.2 | 5079.9 |
| 12.5° | 4315.8 | 4362.3 | 4434.5 | 4584.3 | 4682.3 | 4857.9 | 4950.8 | 5100.5 | 5286.4 | 5389.6 | 5461.9 |
| 15° | 4444.9 | 4460.4 | 4553.3 | 4744.3 | 4956.0 | 5116.0 | 5260.5 | 5369.0 | 5549.6 | 5668.4 | 5673.5 |
| 17.5° | 4610.1 | 4677.2 | 4806.2 | 4986.9 | 5208.9 | 5446.4 | 5560.0 | 5678.7 | 5745.8 | 5905.8 | 5942.0 |
| 20° | 4940.5 | 4950.8 | 5074.7 | 5312.2 | 5590.9 | 5807.8 | 5890.4 | 5952.3 | 5926.5 | 6091.7 | 6122.7 |
| 22.5° | 5250.2 | 5260.5 | 5415.4 | 5735.5 | 6034.9 | 6220.8 | 6256.9 | 6220.8 | 6143.3 | 6262.1 | 6272.4 |
| 25° | 5565.1 | 5658.0 | 5771.6 | 6091.7 | 6463.4 | 6711.2 | 6716.3 | 6618.3 | 6458.2 | 6478.9 | 6530.5 |
| 27.5° | 6055.6 | 6122.7 | 6241.4 | 6535.7 | 6943.5 | 7222.3 | 7175.8 | 7057.1 | 6850.6 | 6866.1 | 6850.6 |
| 30° | 6628.6 | 6690.5 | 6788.6 | 7165.5 | 7464.9 | 7769.5 | 7836.6 | 7723.0 | 7413.3 | 7346.2 | 7423.6 |
| 32.5° | 7320.4 | 7408.1 | 7588.8 | 7934.7 | 8187.6 | 8373.5 | 8420.0 | 8378.7 | 8089.6 | 8063.7 | 8115.4 |
| 35° | 8161.8 | 8280.6 | 8445.8 | 8750.4 | 8956.9 | 9292.4 | 9292.4 | 9153.0 | 8889.7 | 8920.7 | 8915.6 |
| 37.5° | 9049.8 | 9225.3 | 9483.4 | 9793.2 | 10071.9 | 10252.6 | 10195.8 | 10077.1 | 9813.8 | 9746.7 | 9813.8 |
| 40° | 10164.9 | 10252.6 | 10577.9 | 10980.5 | 11321.3 | 11527.8 | 11285.1 | 11027.0 | 10397.2 | 10495.3 | 10676.0 |
| 42.5° | 11181.9 | 11321.3 | 11569.1 | 12013.0 | 12400.2 | 12570.6 | 12281.5 | 11770.4 | 11011.5 | 10934.1 | 11068.3 |
| 45° | 12049.2 | 12198.9 | 12524.1 | 13159.1 | 13566.9 | 13716.6 | 13076.5 | 12250.5 | 11383.2 | 11187.0 | 11243.8 |
| 47.5° | 12627.4 | 12704.8 | 13159.1 | 13763.1 | 14134.8 | 14475.5 | 13556.6 | 12580.9 | 11558.7 | 11187.0 | 11166.4 |
| 50° | 12405.4 | 12539.6 | 13071.3 | 13757.9 | 14434.2 | 14676.9 | 13799.2 | 12833.9 | 11615.5 | 11140.6 | 11078.6 |
| 52.5° | 11016.7 | 11249.0 | 11842.7 | 12766.7 | 13788.9 | 14656.2 | 14134.8 | 12751.3 | 11594.9 | 11187.0 | 11280.0 |
| 55° | 7666.2 | 7671.4 | 8394.1 | 9757.0 | 11563.9 | 13608.2 | 13644.4 | 12844.2 | 11729.1 | 11476.1 | 11481.3 |
| 57.5° | 3082.0 | 3236.9 | 3789.2 | 5157.3 | 6824.8 | 9344.0 | 11109.6 | 11914.9 | 11744.6 | 11682.6 | 11842.7 |
| 60° | 779.5 | 784.7 | 955.1 | 1455.8 | 2400.5 | 4006.1 | 5818.1 | 7872.7 | 9065.3 | 9473.1 | 9529.9 |
| 62.5° | 397.5 | 402.7 | 444.0 | 516.2 | 655.6 | 1073.8 | 1910.1 | 3030.4 | 4310.6 | 4961.1 | 5131.5 |
| 65° | 325.2 | 325.2 | 351.0 | 387.2 | 392.3 | 413.0 | 495.6 | 707.3 | 1027.3 | 1166.7 | 1182.2 |
| 67.5° | 247.8 | 247.8 | 268.4 | 289.1 | 299.4 | 294.3 | 283.9 | 294.3 | 356.2 | 340.7 | 330.4 |
| 70° | 154.9 | 160.0 | 170.4 | 191.0 | 201.3 | 206.5 | 211.7 | 222.0 | 253.0 | 263.3 | 253.0 |
| 72.5° | 92.9 | 92.9 | 98.1 | 113.6 | 129.1 | 139.4 | 154.9 | 165.2 | 180.7 | 206.5 | 201.3 |
| 75° | 41.3 | 41.3 | 51.6 | 67.1 | 82.6 | 98.1 | 113.6 | 129.1 | 139.4 | 154.9 | 160.0 |
| 77.5° | 10.3 | 15.5 | 25.8 | 46.5 | 61.9 | 82.6 | 103.2 | 118.7 | 129.1 | 129.1 | 123.9 |
| 80° | 5.2 | 5.2 | 20.6 | 36.1 | 67.1 | 87.8 | 113.6 | 123.9 | 139.4 | 129.1 | 113.6 |
| 82.5° | 5.2 | 5.2 | 20.6 | 36.1 | 61.9 | 87.8 | 118.7 | 134.2 | 144.5 | 129.1 | 108.4 |
| 85° | 0.0 | 5.2 | 15.5 | 31.0 | 51.6 | 61.9 | 51.6 | 36.1 | 20.6 | 20.6 | 15.5 |
| 87.5° | 0.0 | 0.0 | 5.2 | 5.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 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)