

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: P455586

Luminaire Tested: **GLAN-SA6D-740-U-5WQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455586
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-1)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA6D-740-U-5WQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 70 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 48011 lumens
Efficiency: N/A
Efficacy: 130.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G5

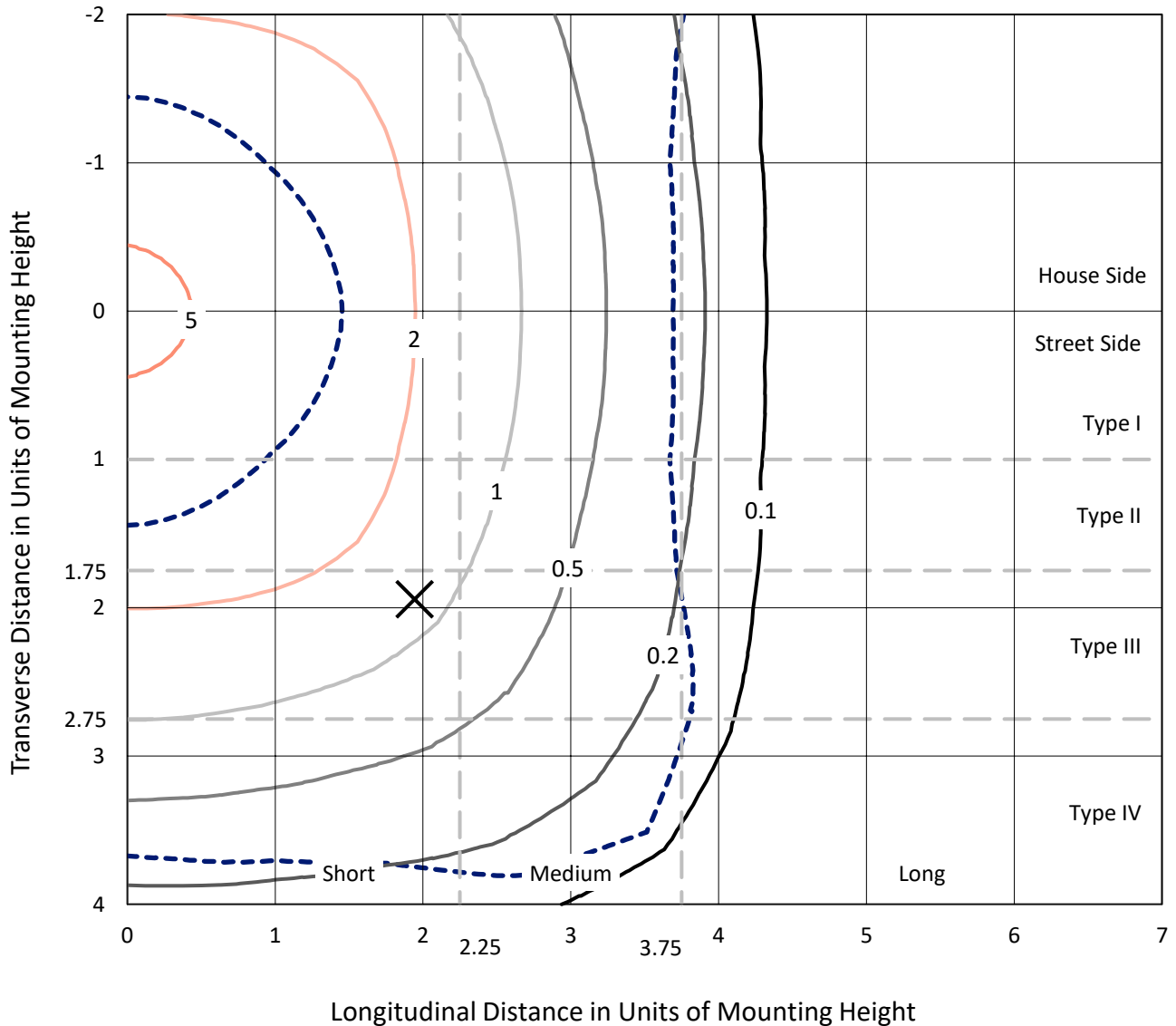
Input Watts (W): 368
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P455586
 CATALOG NUMBER: GLAN-SA6D-740-U-5WQ

Iso-Footcandle Lines of Horizontal Illumination

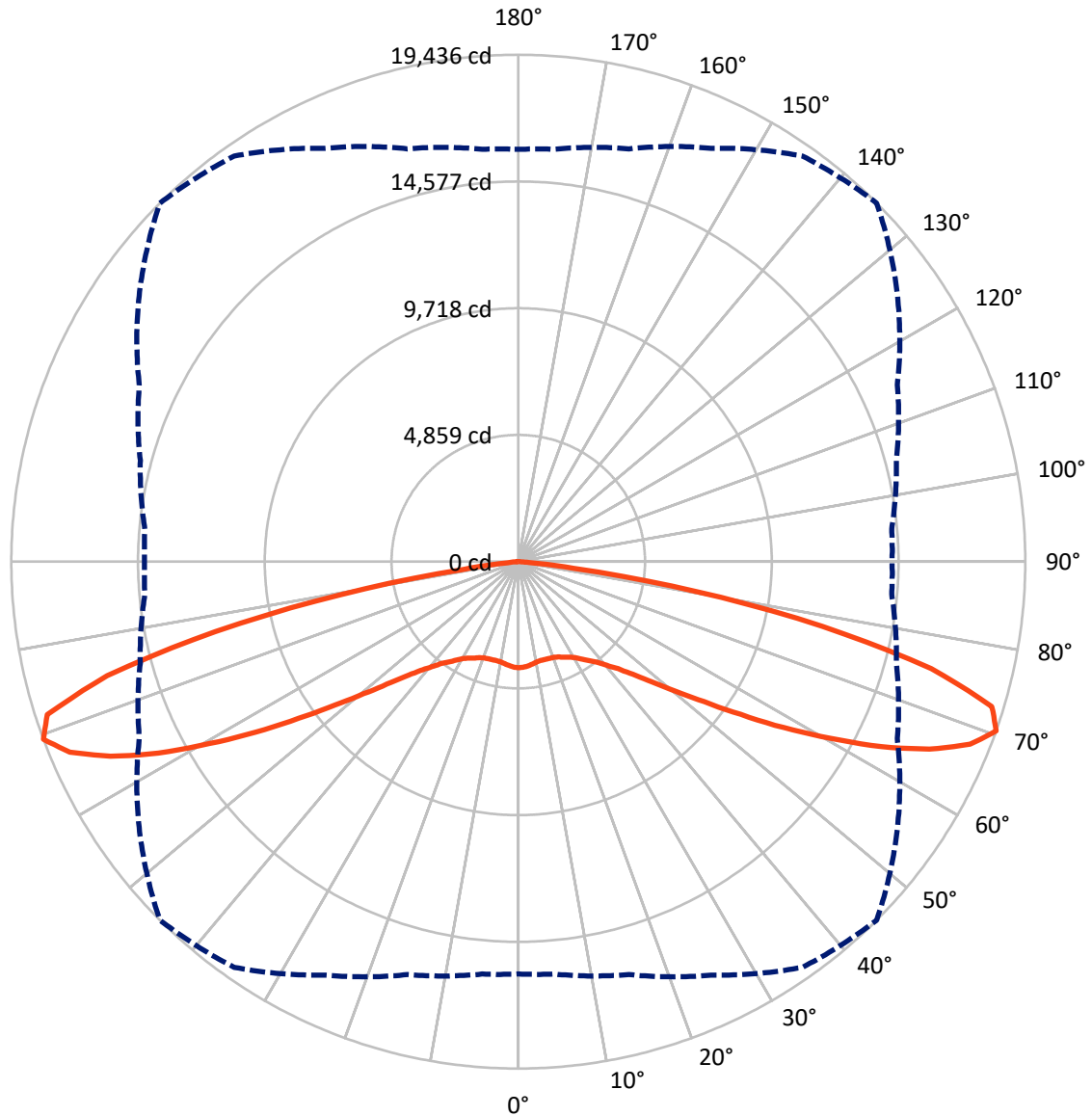
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 6.5 fc
 Type V - Short - N/A

REPORT NUMBER: P455586
CATALOG NUMBER: GLAN-SA6D-740-U-5WQ

Luminous Intensity Polar Plot



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

REPORT NUMBER: P455586

CATALOG NUMBER: GLAN-SA6D-740-U-5WQ

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 24005.5 | 0.0 | 24005.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 24005.5 | 0.0 | 24005.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 48011.0 | 0.0 | 48011.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 380.1 | 0.8 |
| 10°-20° | 1112.8 | 2.3 |
| 20°-30° | 1896.0 | 3.9 |
| 30°-40° | 2938.8 | 6.1 |
| 40°-50° | 4946.5 | 10.3 |
| 50°-60° | 8999.9 | 18.7 |
| 60°-70° | 15236.5 | 31.7 |
| 70°-80° | 11793.7 | 24.6 |
| 80°-90° | 706.7 | 1.5 |
| 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° | 48011.0 | 100.0 |
| 0°-180° | 48011.0 | 100.0 |

Coefficient of Utilization



REPORT NUMBER: P455586

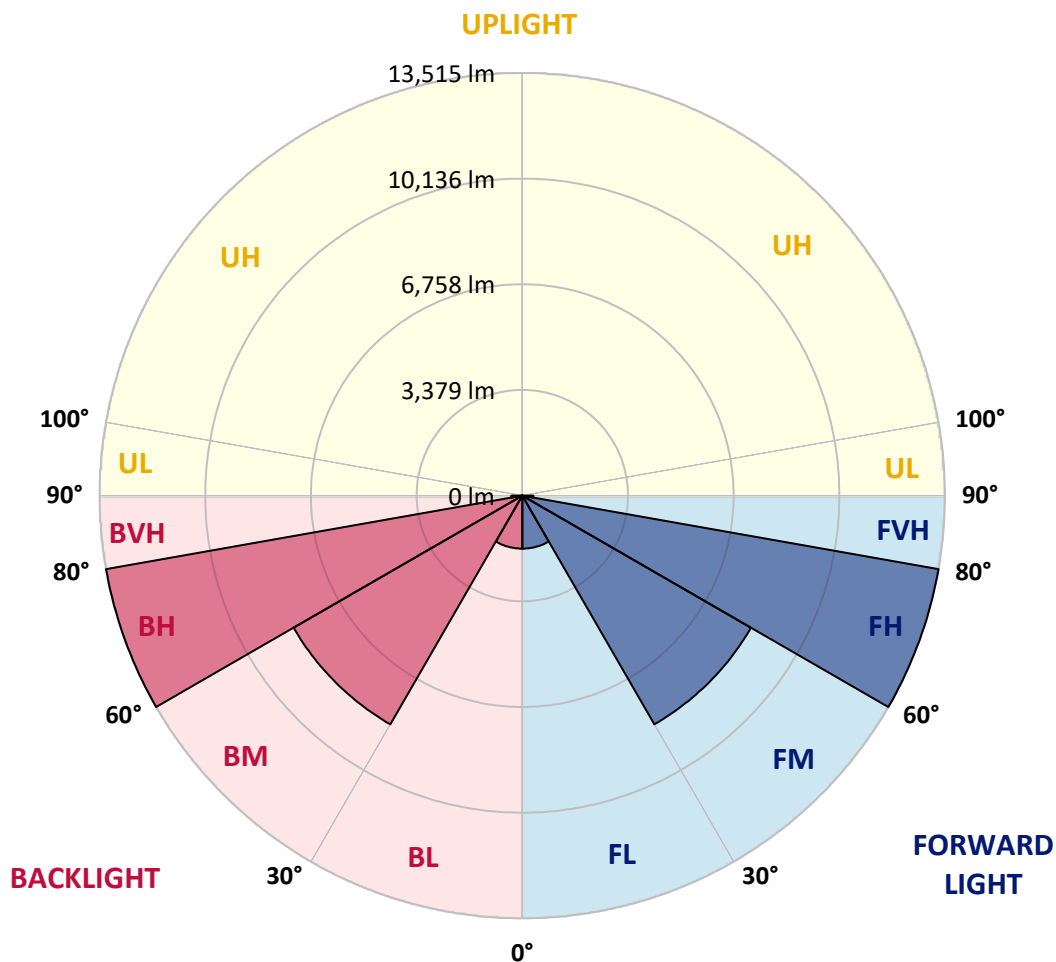
CATALOG NUMBER: GLAN-SA6D-740-U-5WQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|--------|
| | | | | B | U | G |
| FL | (0°-30°) | 1694.5 | 3.5 | | | |
| FM | (30°-60°) | 8442.6 | 17.6 | | | |
| FH | (60°-80°) | 13515.1 | 28.1 | | | G5 |
| FVH | (80°-90°) | 353.3 | 0.7 | | | G3/500 |
| BL | (0°-30°) | 1694.5 | 3.5 | B3/2500 | | |
| BM | (30°-60°) | 8442.6 | 17.6 | B4/8500 | | |
| BH | (60°-80°) | 13515.1 | 28.1 | B5 | | G5 |
| BVH | (80°-90°) | 353.3 | 0.7 | | | G3/500 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G5

Type V Short





REPORT NUMBER: P455586

CATALOG NUMBER: GLAN-SA6D-740-U-5WQ

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 | 4064.7 |
| 2.5° | 4054.6 | 4057.1 | 4057.1 | 4052.0 | 4049.5 | 4049.5 | 4047.0 | 4047.0 | 4054.6 | 4057.1 | 4059.6 |
| 5° | 4019.1 | 4019.1 | 4019.1 | 4016.5 | 4011.5 | 4011.5 | 4006.4 | 4006.4 | 4008.9 | 4016.5 | 4011.5 |
| 7.5° | 3970.9 | 3976.0 | 3976.0 | 3965.8 | 3958.2 | 3958.2 | 3955.7 | 3958.2 | 3960.8 | 3968.4 | 3965.8 |
| 10° | 3955.7 | 3958.2 | 3945.5 | 3927.8 | 3915.1 | 3907.5 | 3910.0 | 3915.1 | 3927.8 | 3932.9 | 3935.4 |
| 12.5° | 3965.8 | 3965.8 | 3943.0 | 3917.6 | 3894.8 | 3884.7 | 3882.1 | 3899.9 | 3922.7 | 3937.9 | 3943.0 |
| 15° | 3978.5 | 3973.4 | 3945.5 | 3912.6 | 3889.8 | 3887.2 | 3884.7 | 3897.4 | 3930.3 | 3960.8 | 3963.3 |
| 17.5° | 3986.1 | 3983.6 | 3948.1 | 3907.5 | 3894.8 | 3894.8 | 3892.3 | 3902.4 | 3937.9 | 3976.0 | 3978.5 |
| 20° | 4011.5 | 4003.9 | 3963.3 | 3920.2 | 3910.0 | 3915.1 | 3907.5 | 3920.2 | 3958.2 | 4003.9 | 4014.0 |
| 22.5° | 4062.2 | 4054.6 | 4014.0 | 3970.9 | 3965.8 | 3965.8 | 3963.3 | 3976.0 | 4016.5 | 4064.7 | 4072.3 |
| 25° | 4123.0 | 4115.4 | 4077.4 | 4047.0 | 4052.0 | 4062.2 | 4057.1 | 4059.6 | 4092.6 | 4133.2 | 4145.9 |
| 27.5° | 4204.2 | 4191.5 | 4158.5 | 4133.2 | 4148.4 | 4148.4 | 4148.4 | 4145.9 | 4166.1 | 4204.2 | 4216.9 |
| 30° | 4303.1 | 4298.0 | 4262.5 | 4260.0 | 4272.6 | 4260.0 | 4260.0 | 4262.5 | 4265.0 | 4300.5 | 4313.2 |
| 32.5° | 4432.4 | 4422.3 | 4404.5 | 4399.4 | 4434.9 | 4445.1 | 4409.6 | 4376.6 | 4394.4 | 4429.9 | 4437.5 |
| 35° | 4645.4 | 4630.2 | 4604.8 | 4576.9 | 4604.8 | 4653.0 | 4576.9 | 4551.6 | 4597.2 | 4645.4 | 4650.5 |
| 37.5° | 4934.5 | 4926.9 | 4886.3 | 4835.6 | 4833.0 | 4883.7 | 4805.1 | 4802.6 | 4888.8 | 4947.1 | 4954.7 |
| 40° | 5297.1 | 5304.7 | 5254.0 | 5205.8 | 5180.4 | 5221.0 | 5160.1 | 5183.0 | 5266.6 | 5332.6 | 5327.5 |
| 42.5° | 5806.7 | 5778.8 | 5700.2 | 5654.6 | 5626.7 | 5611.5 | 5596.3 | 5631.8 | 5725.6 | 5796.6 | 5852.4 |
| 45° | 6402.6 | 6392.5 | 6293.6 | 6237.8 | 6177.0 | 6154.1 | 6149.1 | 6212.5 | 6326.6 | 6412.8 | 6420.4 |
| 47.5° | 7077.1 | 7054.3 | 6990.9 | 6932.6 | 6909.8 | 6881.9 | 6856.5 | 6904.7 | 7018.8 | 7079.7 | 7097.4 |
| 50° | 7771.9 | 7777.0 | 7777.0 | 7766.8 | 7789.7 | 7794.7 | 7726.3 | 7744.0 | 7807.4 | 7802.3 | 7797.3 |
| 52.5° | 8565.6 | 8593.5 | 8725.3 | 8738.0 | 8847.0 | 8920.6 | 8796.3 | 8722.8 | 8700.0 | 8563.0 | 8573.2 |
| 55° | 9498.7 | 9524.1 | 9721.9 | 9919.6 | 10213.8 | 10338.0 | 10076.9 | 9848.6 | 9686.4 | 9478.4 | 9488.6 |
| 57.5° | 10662.6 | 10675.3 | 10862.9 | 11243.3 | 11709.8 | 12001.4 | 11542.5 | 11091.1 | 10761.5 | 10563.7 | 10485.1 |
| 60° | 11915.2 | 11927.9 | 12201.8 | 12665.8 | 13391.0 | 13746.0 | 13178.0 | 12440.1 | 12024.3 | 11722.5 | 11742.8 |
| 62.5° | 13418.9 | 13469.6 | 13715.6 | 14354.6 | 15234.5 | 15632.6 | 14879.5 | 13893.1 | 13330.1 | 12954.9 | 12970.1 |
| 65° | 15029.1 | 15115.3 | 15384.1 | 16086.4 | 16897.9 | 17326.4 | 16403.4 | 15264.9 | 14565.0 | 14106.1 | 14154.2 |
| 67.5° | 16073.8 | 16149.8 | 16537.8 | 17313.7 | 18325.5 | 18680.5 | 17488.7 | 16162.5 | 15287.7 | 14740.0 | 14638.6 |
| 70° | 15807.5 | 15870.9 | 16388.2 | 17488.7 | 18987.3 | 19436.1 | 17747.3 | 16030.7 | 15001.2 | 14369.8 | 14329.2 |
| 72.5° | 13953.9 | 13822.1 | 14577.7 | 16157.4 | 18231.6 | 18984.7 | 16933.4 | 14641.1 | 13345.4 | 12696.2 | 12620.2 |
| 75° | 9247.7 | 9534.2 | 10649.9 | 12511.1 | 15424.6 | 16357.8 | 14453.5 | 11755.5 | 10125.0 | 9584.9 | 9501.2 |
| 77.5° | 3091.0 | 3311.6 | 4303.1 | 7092.3 | 10515.5 | 11917.8 | 10530.7 | 7688.2 | 5439.1 | 4381.7 | 4402.0 |
| 80° | 819.0 | 808.9 | 1047.2 | 1949.9 | 4544.0 | 6902.2 | 5289.5 | 2604.2 | 1425.1 | 1032.0 | 978.8 |
| 82.5° | 294.1 | 329.6 | 423.5 | 540.1 | 1204.5 | 2145.2 | 1513.8 | 730.3 | 535.0 | 395.6 | 382.9 |
| 85° | 129.3 | 126.8 | 182.6 | 215.5 | 301.7 | 400.6 | 355.0 | 309.4 | 271.3 | 180.0 | 167.4 |
| 87.5° | 27.9 | 27.9 | 43.1 | 33.0 | 53.2 | 53.2 | 65.9 | 78.6 | 81.1 | 53.2 | 43.1 |
| 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)