

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: P653582

Luminaire Tested: **GLAN-SA9D-840-U-5NQ-GRSWH**

Issue Date: 5/27/2021

Test Information

Test Method: LM-79-08
Report Number: P653582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-057-6)
Test Lab: INNOVATION CENTER
Issue Date: 5/27/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GLAN-SA9D-840-U-5NQ-GRSWH
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(9) 80 CRI, 4000K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V
NARROW OPTICS WITH WHITE GLARE REDUCTION SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 53124.3 lumens
Efficiency: N/A
Efficacy: 96.2 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G2

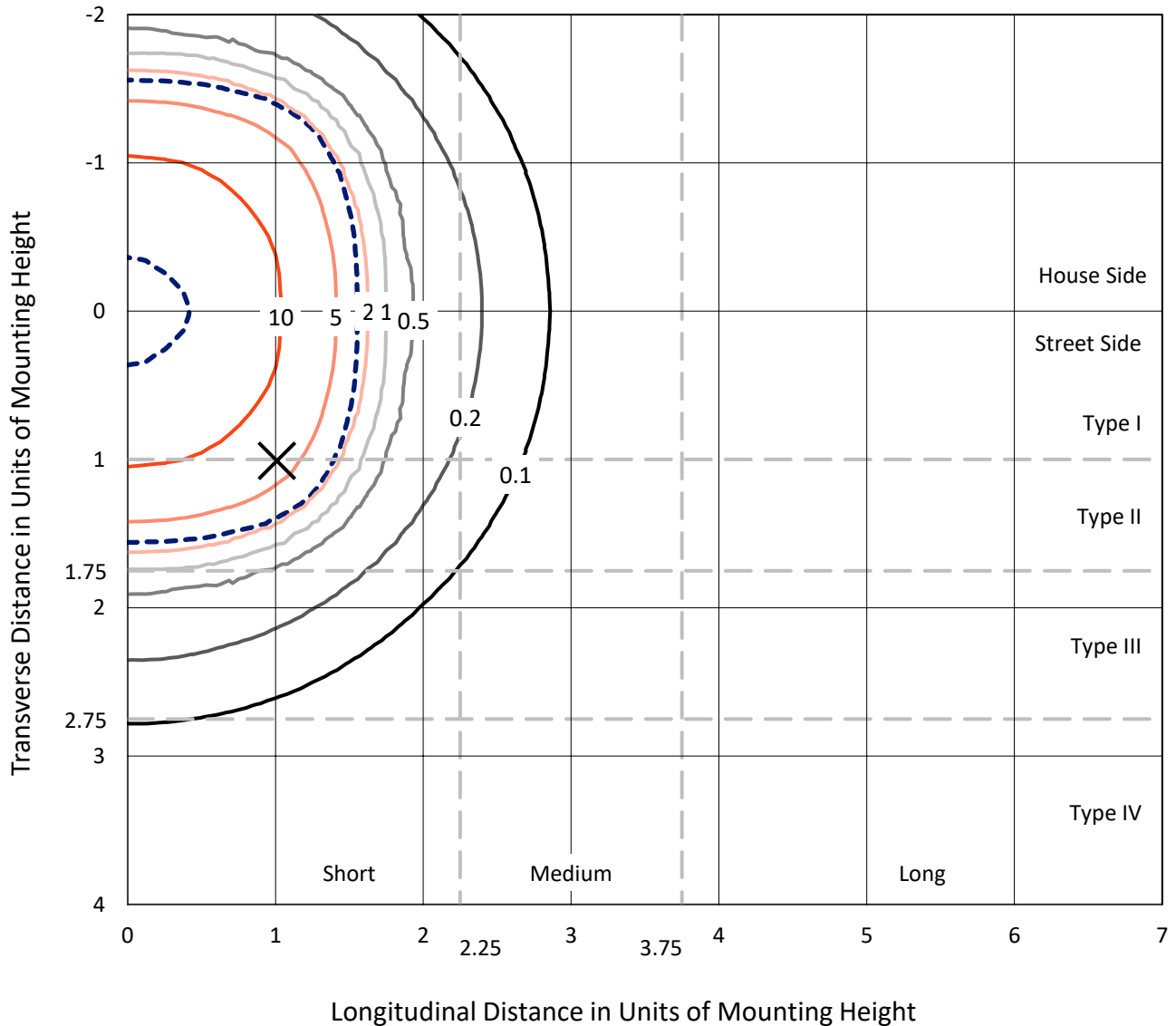
Input Watts (W): 552
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

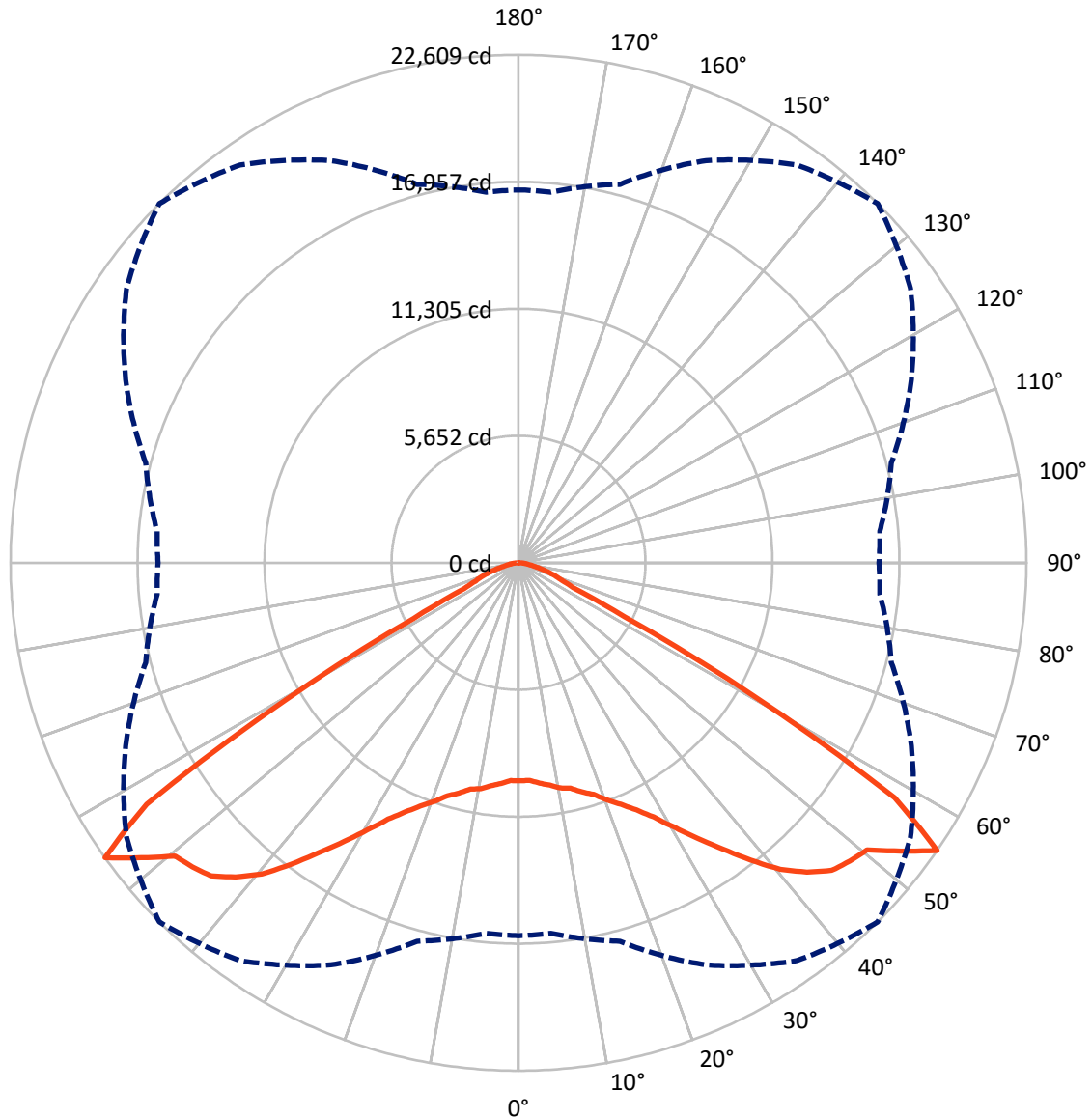
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 15.6 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 55-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 26562.1 | 0.0 | 26562.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 26562.1 | 0.0 | 26562.1 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 53124.3 | 0.0 | 53124.3 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 947.6 | 1.8 |
| 10°-20° | 3002.4 | 5.7 |
| 20°-30° | 5598.5 | 10.5 |
| 30°-40° | 9373.7 | 17.6 |
| 40°-50° | 14586.2 | 27.5 |
| 50°-60° | 15145.0 | 28.5 |
| 60°-70° | 3211.8 | 6.0 |
| 70°-80° | 1057.7 | 2.0 |
| 80°-90° | 201.4 | 0.4 |
| 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° | 53124.3 | 100.0 |
| 0°-180° | 53124.3 | 100.0 |

Coefficient of Utilization

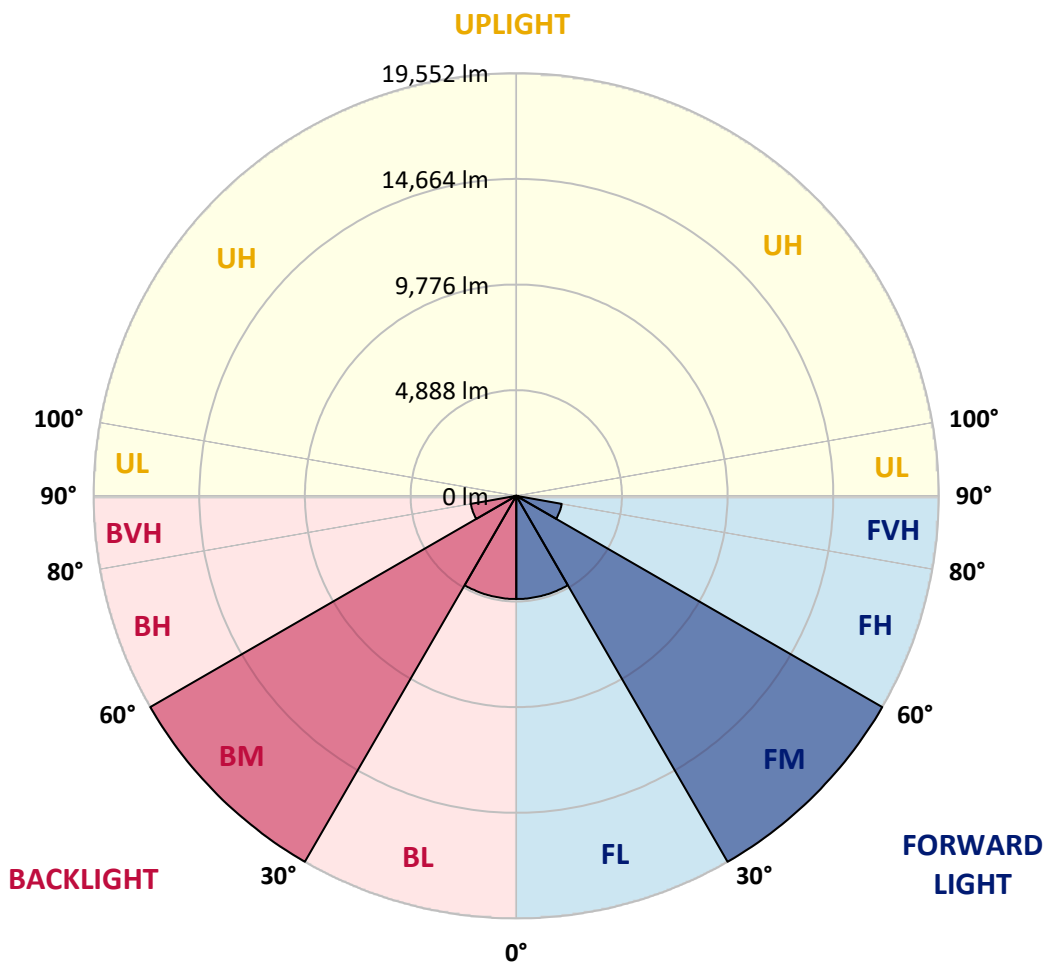


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|---------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 4774.2 | 9.0 | | | |
| FM (30°-60°) | 19552.5 | 36.8 | | | |
| FH (60°-80°) | 2134.8 | 4.0 | | | G2/5000 |
| FVH (80°-90°) | 100.7 | 0.2 | | | G2/225 |
| BL (0°-30°) | 4774.2 | 9.0 | B4/5000 | | |
| BM (30°-60°) | 19552.5 | 36.8 | B5 | | |
| BH (60°-80°) | 2134.8 | 4.0 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 100.7 | 0.2 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G2
 Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 9699.7 | 9699.7 | 9699.7 | 9699.7 | 9699.7 | 9699.7 | 9699.7 | 9699.7 | 9699.7 | 9699.7 | 9699.7 |
| 2.5° | 9815.2 | 9770.3 | 9693.3 | 9751.1 | 9796.0 | 9699.7 | 9738.2 | 9757.5 | 9744.7 | 9693.3 | 9712.5 |
| 5° | 9956.5 | 9930.8 | 9866.6 | 9911.5 | 9853.7 | 9853.7 | 9815.2 | 9763.9 | 9841.0 | 9828.1 | 9860.2 |
| 7.5° | 9956.5 | 9924.4 | 10052.8 | 9969.3 | 9995.0 | 9995.0 | 9930.8 | 9879.5 | 9918.0 | 9860.2 | 9828.1 |
| 10° | 10155.5 | 10200.4 | 10142.6 | 10161.9 | 10149.0 | 10194.0 | 10097.7 | 10065.6 | 10033.6 | 10014.3 | 9975.8 |
| 12.5° | 10393.0 | 10360.9 | 10380.1 | 10367.3 | 10412.3 | 10296.7 | 10238.9 | 10168.3 | 10226.1 | 10142.6 | 10200.4 |
| 15° | 10585.6 | 10566.3 | 10585.6 | 10637.0 | 10592.0 | 10585.6 | 10482.9 | 10412.3 | 10322.3 | 10341.6 | 10251.8 |
| 17.5° | 10848.8 | 10829.6 | 10835.9 | 10880.9 | 10874.5 | 10842.3 | 10765.3 | 10630.5 | 10598.5 | 10547.1 | 10489.3 |
| 20° | 11240.4 | 11208.3 | 11195.4 | 11214.7 | 11246.8 | 11272.4 | 11118.4 | 11067.1 | 10957.9 | 10874.5 | 10778.2 |
| 22.5° | 11574.2 | 11561.3 | 11612.7 | 11529.3 | 11599.8 | 11676.9 | 11529.3 | 11503.5 | 11233.9 | 11189.0 | 11086.3 |
| 25° | 12036.4 | 12017.1 | 11985.0 | 12107.0 | 12190.5 | 12184.0 | 12042.8 | 11901.6 | 11696.1 | 11644.7 | 11644.7 |
| 27.5° | 12524.3 | 12415.1 | 12582.0 | 12614.1 | 12761.8 | 12806.7 | 12684.7 | 12479.3 | 12286.8 | 12177.6 | 12203.2 |
| 30° | 13134.1 | 13031.4 | 13069.9 | 13301.0 | 13493.6 | 13660.4 | 13352.3 | 13050.6 | 12781.0 | 12588.4 | 12556.3 |
| 32.5° | 13744.0 | 13641.2 | 13756.7 | 13981.5 | 14366.6 | 14616.9 | 14315.2 | 13788.9 | 13474.3 | 13191.8 | 13249.6 |
| 35° | 14238.2 | 14315.2 | 14501.4 | 14841.6 | 15239.7 | 15644.0 | 15162.6 | 14758.2 | 14308.9 | 13994.2 | 14039.2 |
| 37.5° | 15034.2 | 15271.7 | 15419.4 | 15811.0 | 16375.9 | 16793.2 | 16292.4 | 15766.1 | 15284.6 | 14873.8 | 14732.5 |
| 40° | 16074.2 | 16234.7 | 16401.5 | 16863.7 | 17531.4 | 17948.6 | 17473.6 | 16786.7 | 16311.7 | 15888.0 | 15868.7 |
| 42.5° | 17216.8 | 17370.9 | 17544.2 | 18109.1 | 18507.1 | 18821.7 | 18385.1 | 18019.3 | 17492.9 | 17159.0 | 17139.7 |
| 45° | 18545.6 | 18436.5 | 18629.1 | 19001.4 | 19335.2 | 19540.6 | 19258.1 | 19078.4 | 18699.7 | 18391.6 | 18359.5 |
| 47.5° | 19431.5 | 19335.2 | 19681.8 | 20015.6 | 20067.0 | 19842.3 | 19900.1 | 20067.0 | 19669.1 | 19161.8 | 19322.4 |
| 50° | 19945.1 | 19945.1 | 20176.2 | 20484.3 | 20388.0 | 20099.1 | 20554.9 | 20567.7 | 20169.7 | 19720.4 | 19720.4 |
| 52.5° | 19052.8 | 19251.8 | 19906.6 | 20914.4 | 21235.3 | 21318.8 | 21216.1 | 20779.6 | 19739.6 | 18821.7 | 18776.8 |
| 55° | 16600.6 | 16555.6 | 17441.5 | 19752.5 | 21620.5 | 22609.1 | 21299.6 | 19290.3 | 17178.3 | 16144.8 | 16042.1 |
| 57.5° | 10797.4 | 10848.8 | 12171.2 | 14527.1 | 17897.2 | 19739.6 | 17531.4 | 14706.8 | 12171.2 | 10746.0 | 10880.9 |
| 60° | 4859.5 | 5032.8 | 5835.2 | 7594.1 | 10489.3 | 11991.4 | 10514.9 | 7979.3 | 6124.1 | 5315.3 | 5385.8 |
| 62.5° | 2792.5 | 2824.5 | 2856.6 | 3389.4 | 4467.9 | 5283.2 | 4641.2 | 3582.0 | 3158.4 | 3017.1 | 3017.1 |
| 65° | 2355.9 | 2336.6 | 2343.1 | 2388.0 | 2503.6 | 2670.4 | 2599.9 | 2503.6 | 2516.4 | 2503.6 | 2484.3 |
| 67.5° | 2002.8 | 2028.5 | 2009.2 | 2041.4 | 2047.8 | 2073.5 | 2118.4 | 2156.9 | 2163.3 | 2176.2 | 2163.3 |
| 70° | 1643.4 | 1649.8 | 1662.7 | 1688.3 | 1694.7 | 1714.0 | 1778.2 | 1810.3 | 1829.5 | 1829.5 | 1855.2 |
| 72.5° | 1258.2 | 1251.7 | 1264.6 | 1290.3 | 1322.4 | 1328.8 | 1386.6 | 1431.6 | 1457.2 | 1425.1 | 1431.6 |
| 75° | 828.1 | 834.5 | 853.8 | 873.0 | 918.0 | 962.9 | 982.2 | 1027.1 | 1033.5 | 1046.4 | 1014.2 |
| 77.5° | 494.3 | 507.1 | 526.4 | 564.9 | 603.4 | 641.9 | 686.8 | 719.0 | 731.8 | 719.0 | 680.5 |
| 80° | 321.0 | 321.0 | 346.7 | 378.7 | 423.7 | 455.7 | 481.5 | 507.1 | 526.4 | 507.1 | 494.3 |
| 82.5° | 199.0 | 199.0 | 231.1 | 269.6 | 301.8 | 321.0 | 359.5 | 391.6 | 410.8 | 398.0 | 378.7 |
| 85° | 102.7 | 109.2 | 134.8 | 166.9 | 192.6 | 205.5 | 199.0 | 179.7 | 160.5 | 154.1 | 141.2 |
| 87.5° | 32.1 | 32.1 | 38.5 | 38.5 | 32.1 | 32.1 | 38.5 | 32.1 | 38.5 | 38.5 | 38.5 |
| 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)