

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: P457035

Luminaire Tested: **GLAN-SA8B-760-U-5NQ**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P457035
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-SA8B-760-U-5NQ
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(8) 70 CRI, 5700K, 800mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE V NARROW OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 47953 lumens
Efficiency: N/A
Efficacy: 147.5 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G3

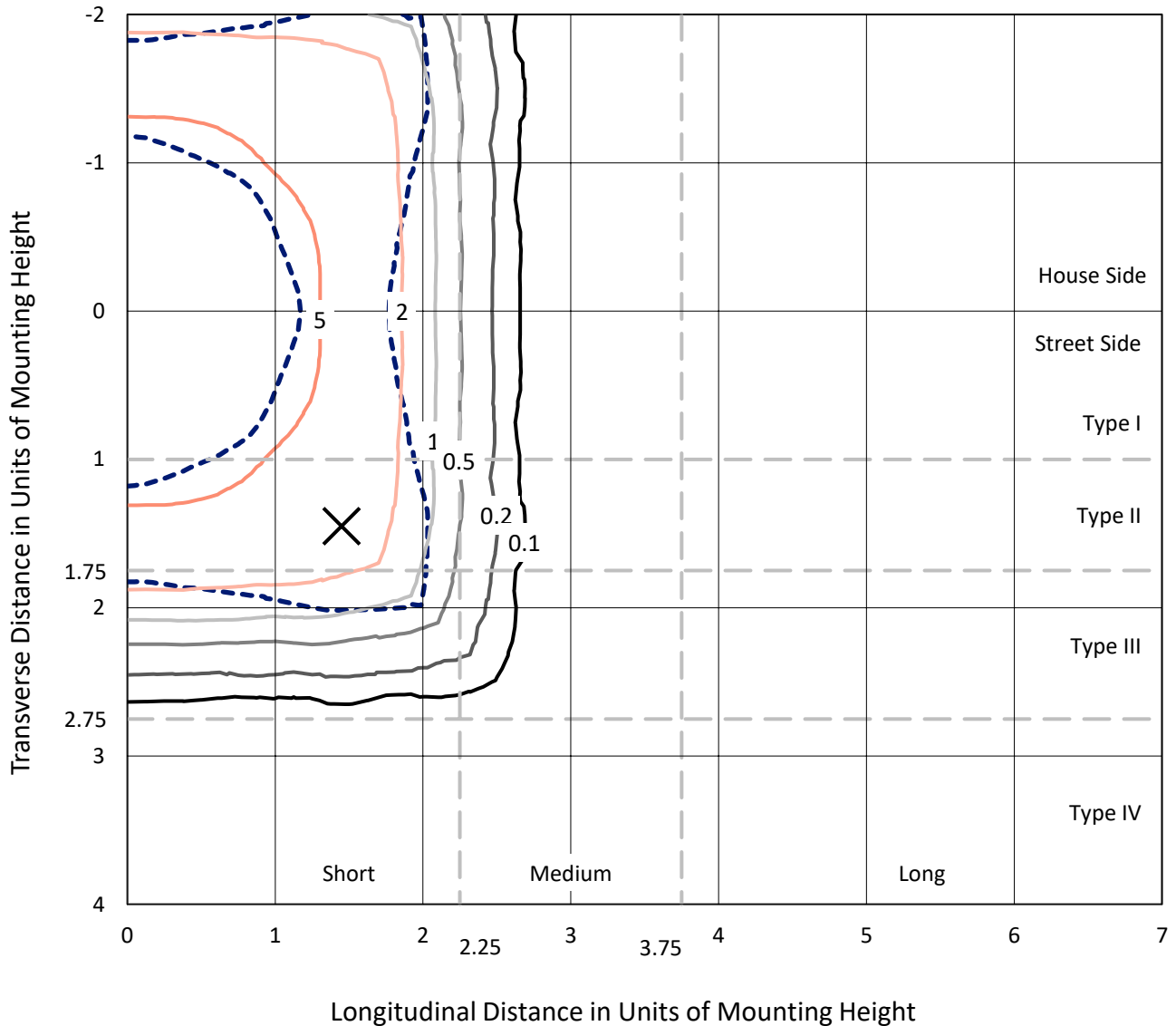
Input Watts (W): 325
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

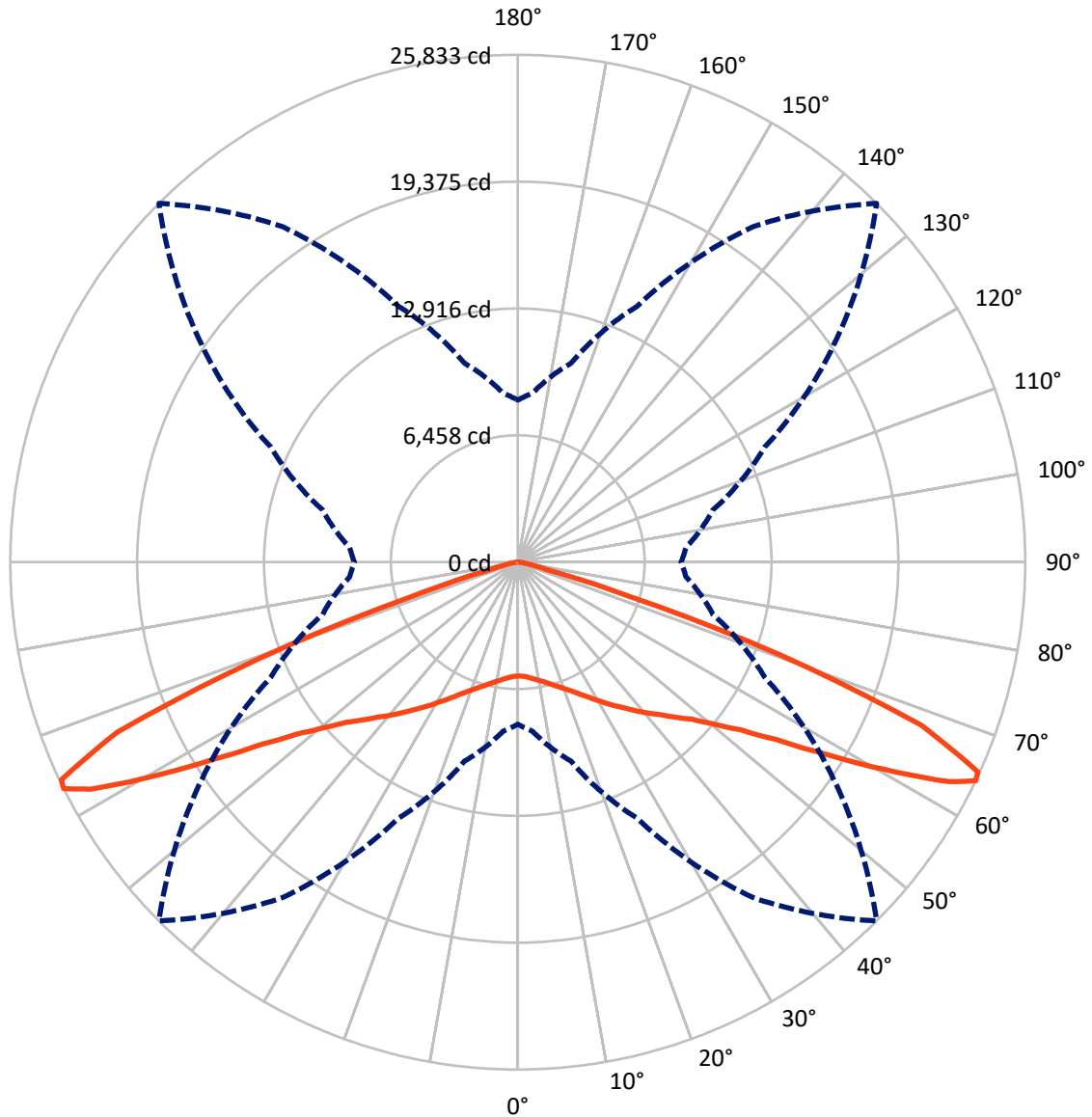
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 9.4 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 | 23976.5 | 0.0 | 23976.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 23976.5 | 0.0 | 23976.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 47953.0 | 0.0 | 47953.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 569.4 | 1.2 |
| 10°-20° | 1836.7 | 3.8 |
| 20°-30° | 3470.9 | 7.2 |
| 30°-40° | 5748.1 | 12.0 |
| 40°-50° | 8973.8 | 18.7 |
| 50°-60° | 13873.3 | 28.9 |
| 60°-70° | 11962.7 | 24.9 |
| 70°-80° | 1355.7 | 2.8 |
| 80°-90° | 162.4 | 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° | 47953.0 | 100.0 |
| 0°-180° | 47953.0 | 100.0 |

Coefficient of Utilization



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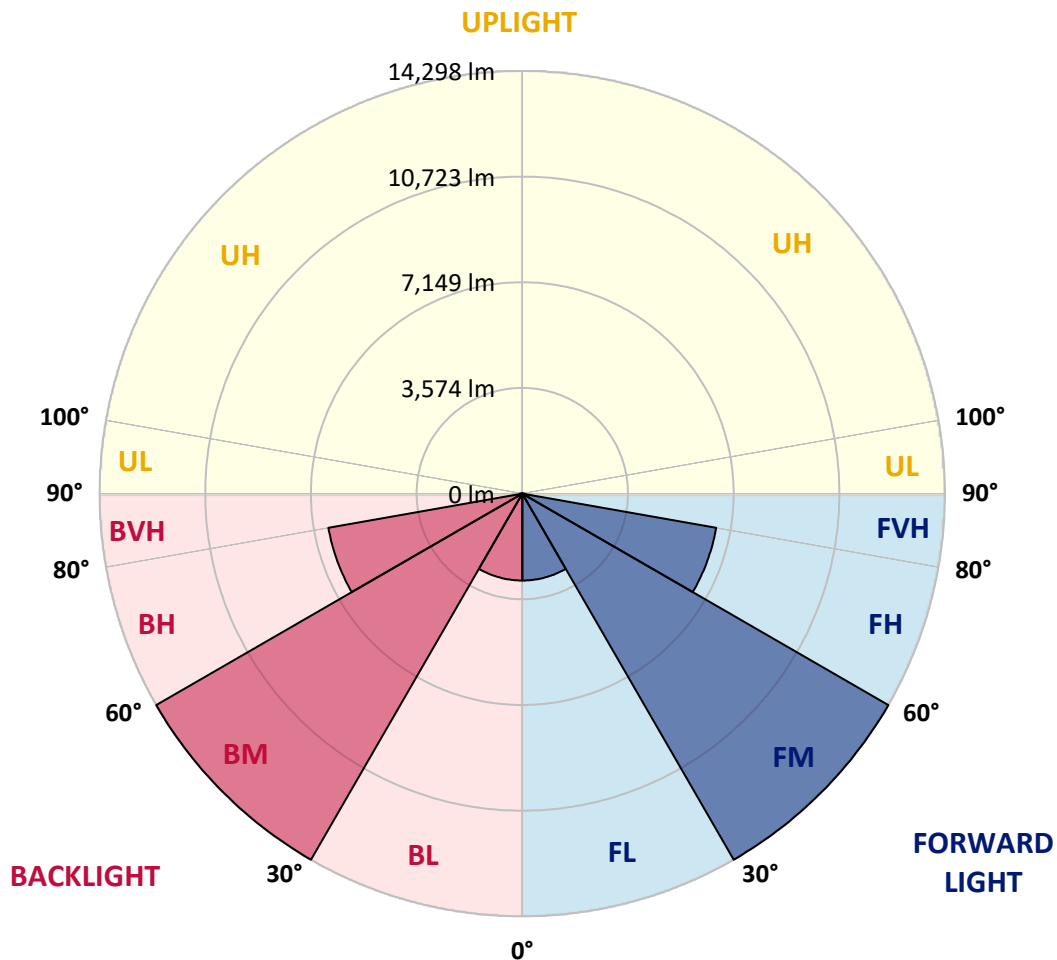
CATALOG NUMBER: GLAN-SA8B-760-U-5NQ

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|---------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 2938.5 | 6.1 | | | |
| FM | (30°-60°) | 14297.6 | 29.8 | | | |
| FH | (60°-80°) | 6659.2 | 13.9 | | | G3/7500 |
| FVH | (80°-90°) | 81.2 | 0.2 | | | G1/100 |
| BL | (0°-30°) | 2938.5 | 6.1 | B4/5000 | | |
| BM | (30°-60°) | 14297.6 | 29.8 | B5 | | |
| BH | (60°-80°) | 6659.2 | 13.9 | B5 | | G3/7500 |
| BVH | (80°-90°) | 81.2 | 0.2 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 5795.9 | 5795.9 | 5795.9 | 5795.9 | 5795.9 | 5795.9 | 5795.9 | 5795.9 | 5795.9 | 5795.9 | 5795.9 |
| 2.5° | 5818.8 | 5831.5 | 5821.3 | 5818.8 | 5816.2 | 5816.2 | 5818.8 | 5828.9 | 5836.6 | 5831.5 | 5831.5 |
| 5° | 5892.4 | 5902.6 | 5897.5 | 5895.0 | 5892.4 | 5892.4 | 5889.9 | 5887.4 | 5895.0 | 5895.0 | 5892.4 |
| 7.5° | 5983.9 | 5996.6 | 5991.5 | 5996.6 | 5999.1 | 6001.7 | 5989.0 | 5978.8 | 5976.3 | 5983.9 | 5978.8 |
| 10° | 6108.3 | 6118.5 | 6121.0 | 6123.6 | 6128.6 | 6126.1 | 6110.9 | 6093.1 | 6090.5 | 6088.0 | 6085.5 |
| 12.5° | 6248.0 | 6255.6 | 6258.2 | 6268.3 | 6276.0 | 6278.5 | 6260.7 | 6245.5 | 6220.1 | 6225.2 | 6215.0 |
| 15° | 6405.5 | 6420.7 | 6418.2 | 6433.4 | 6453.7 | 6458.8 | 6441.0 | 6415.6 | 6392.8 | 6380.1 | 6372.5 |
| 17.5° | 6598.5 | 6608.7 | 6603.6 | 6618.8 | 6644.2 | 6656.9 | 6641.7 | 6608.7 | 6585.8 | 6557.9 | 6542.6 |
| 20° | 6827.1 | 6844.9 | 6850.0 | 6850.0 | 6872.8 | 6885.5 | 6862.7 | 6852.5 | 6816.9 | 6796.6 | 6783.9 |
| 22.5° | 7086.2 | 7093.8 | 7109.0 | 7124.3 | 7147.1 | 7142.0 | 7134.4 | 7119.2 | 7086.2 | 7068.4 | 7048.1 |
| 25° | 7378.2 | 7385.9 | 7424.0 | 7457.0 | 7464.6 | 7459.5 | 7449.4 | 7441.7 | 7411.3 | 7370.6 | 7355.4 |
| 27.5° | 7718.6 | 7733.8 | 7784.6 | 7815.1 | 7815.1 | 7817.6 | 7797.3 | 7822.7 | 7756.7 | 7708.4 | 7703.4 |
| 30° | 8145.3 | 8155.4 | 8198.6 | 8229.1 | 8213.9 | 8201.2 | 8196.1 | 8221.5 | 8150.4 | 8064.0 | 8043.7 |
| 32.5° | 8566.9 | 8602.5 | 8640.6 | 8706.6 | 8653.3 | 8630.4 | 8625.3 | 8643.1 | 8561.8 | 8465.3 | 8437.4 |
| 35° | 9019.0 | 9044.4 | 9115.5 | 9171.4 | 9123.1 | 9069.8 | 9092.6 | 9148.5 | 9052.0 | 8922.5 | 8917.4 |
| 37.5° | 9519.3 | 9542.2 | 9633.6 | 9692.0 | 9656.5 | 9565.1 | 9603.2 | 9669.2 | 9572.7 | 9412.7 | 9379.6 |
| 40° | 10040.0 | 10088.3 | 10202.6 | 10263.5 | 10205.1 | 10083.2 | 10154.3 | 10225.4 | 10139.1 | 9953.7 | 9880.0 |
| 42.5° | 10624.2 | 10700.4 | 10865.5 | 10895.9 | 10784.2 | 10619.1 | 10743.5 | 10857.8 | 10796.9 | 10583.5 | 10555.6 |
| 45° | 11307.4 | 11353.1 | 11556.3 | 11622.3 | 11467.4 | 11261.7 | 11416.6 | 11624.9 | 11579.2 | 11332.8 | 11279.5 |
| 47.5° | 12071.9 | 12115.1 | 12325.9 | 12424.9 | 12229.4 | 11952.5 | 12231.9 | 12503.7 | 12475.7 | 12211.6 | 12186.2 |
| 50° | 12976.1 | 12986.2 | 13278.3 | 13390.1 | 13194.5 | 12955.7 | 13204.7 | 13542.5 | 13430.7 | 13092.9 | 13087.8 |
| 52.5° | 13966.6 | 13979.3 | 14347.6 | 14563.5 | 14454.3 | 14185.0 | 14479.7 | 14685.4 | 14400.9 | 13959.0 | 13926.0 |
| 55° | 14825.1 | 14888.6 | 15391.5 | 15965.5 | 16115.3 | 15919.7 | 16008.6 | 15912.1 | 15211.1 | 14591.4 | 14494.9 |
| 57.5° | 15175.6 | 15300.0 | 16064.5 | 17136.3 | 18111.6 | 18401.2 | 17715.4 | 16796.0 | 15533.7 | 14657.4 | 14563.5 |
| 60° | 14319.6 | 14454.3 | 15640.4 | 17674.8 | 20163.8 | 21421.1 | 19493.3 | 16945.8 | 14799.7 | 13567.9 | 13420.5 |
| 62.5° | 11467.4 | 11505.5 | 13250.4 | 16407.4 | 21360.1 | 24616.2 | 20242.6 | 15668.3 | 12663.7 | 10989.9 | 10931.5 |
| 64° | 8252.0 | 8643.1 | 10492.1 | 14385.7 | 20836.9 | 25832.8 | 19810.8 | 13877.7 | 10286.4 | 8592.3 | 8318.0 |
| 65° | 6171.8 | 6278.5 | 8457.7 | 12285.2 | 19914.9 | 25741.3 | 18972.6 | 12165.9 | 8518.6 | 6575.7 | 6270.9 |
| 67.5° | 2331.6 | 2344.3 | 3121.5 | 6123.6 | 14177.4 | 22147.4 | 14479.7 | 6618.8 | 3588.8 | 2595.7 | 2501.7 |
| 70° | 967.7 | 985.5 | 1145.5 | 2059.8 | 6093.1 | 14220.6 | 6982.0 | 2387.5 | 1313.1 | 1064.2 | 1049.0 |
| 72.5° | 708.6 | 718.8 | 767.0 | 914.3 | 1874.4 | 5839.1 | 2296.0 | 1013.4 | 769.6 | 688.3 | 680.7 |
| 75° | 556.2 | 561.3 | 596.9 | 673.1 | 873.7 | 1617.9 | 955.0 | 695.9 | 586.7 | 528.3 | 523.2 |
| 77.5° | 424.2 | 436.9 | 462.3 | 513.0 | 586.7 | 767.0 | 632.4 | 520.7 | 452.1 | 403.8 | 396.2 |
| 80° | 292.1 | 307.3 | 355.6 | 375.9 | 393.7 | 497.8 | 431.8 | 393.7 | 353.0 | 294.6 | 276.8 |
| 82.5° | 180.3 | 190.5 | 238.7 | 256.5 | 248.9 | 279.4 | 276.8 | 281.9 | 251.4 | 182.9 | 170.2 |
| 85° | 94.0 | 99.1 | 129.5 | 134.6 | 124.5 | 114.3 | 142.2 | 165.1 | 154.9 | 104.1 | 101.6 |
| 87.5° | 20.3 | 22.9 | 27.9 | 25.4 | 27.9 | 27.9 | 35.6 | 53.3 | 55.9 | 35.6 | 33.0 |
| 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)