

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: P383023

Luminaire Tested: **GAN-SA3D-735-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P383023
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1903-205-7)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: GAN-SA3D-735-U-RW
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(3) 70 CRI, 3500K, 1200mA LIGHTSQUARES WITH 16 LEDS EACH AND RECTANGULAR WIDE OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 22557.4 lumens
Efficiency: N/A
Efficacy: 118.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B4 - U0 - G4

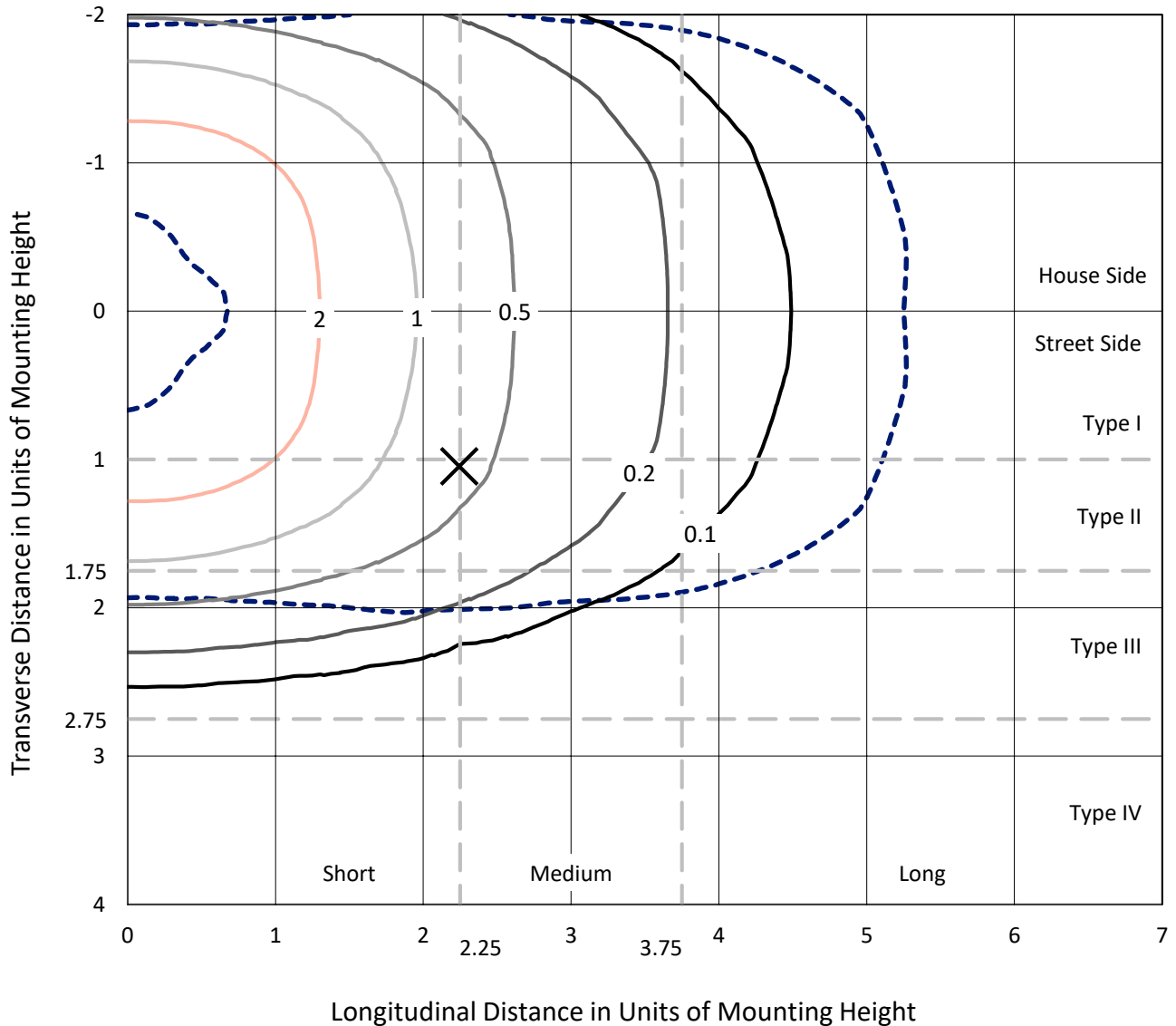
Input Watts (W): 191
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

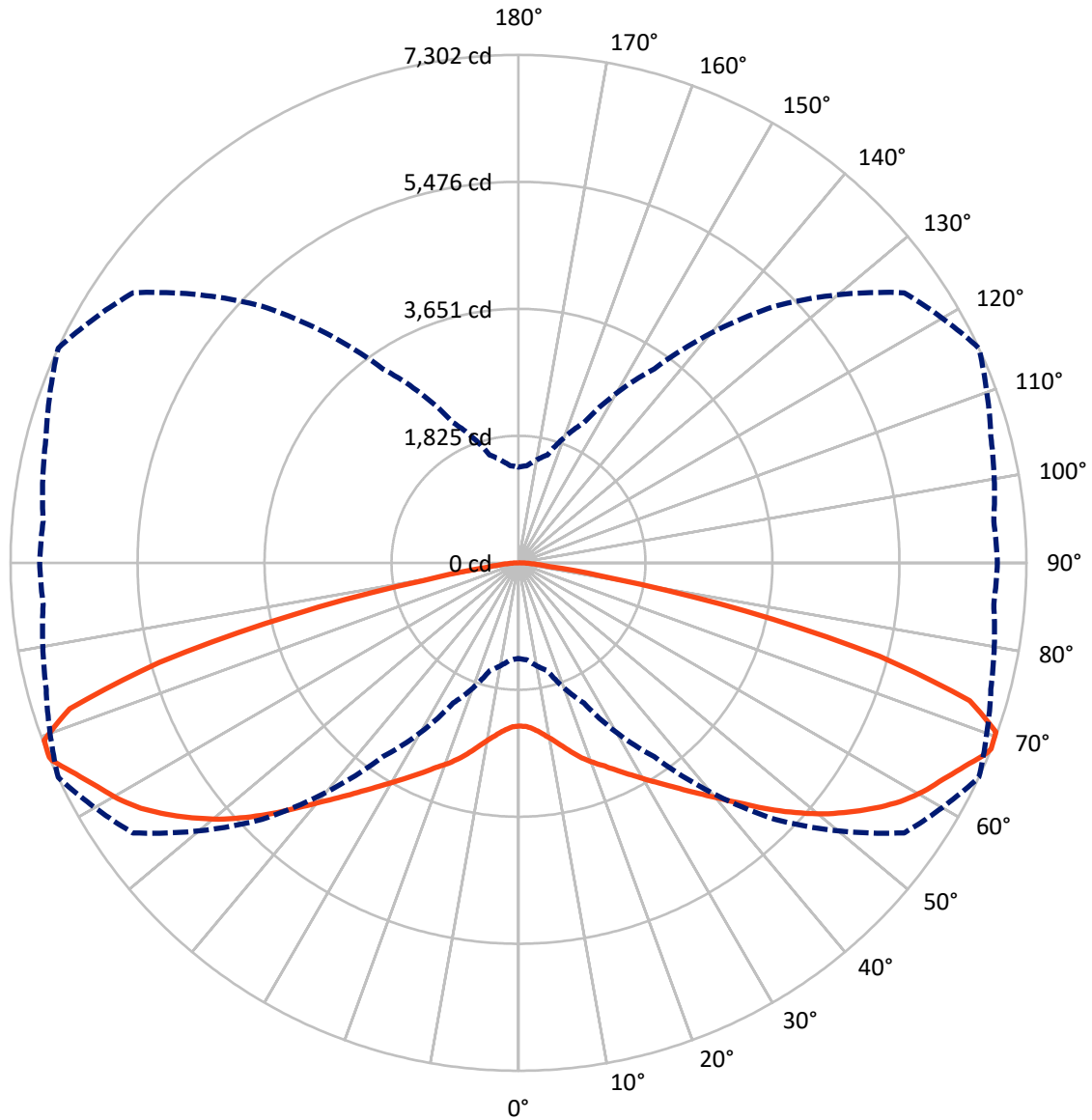
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.3 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 65-Deg Lateral - - - Horizontal Cone Through 68-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 11278.7 | 0.0 | 11278.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 11278.7 | 0.0 | 11278.7 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 22557.4 | 0.0 | 22557.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 229.6 | 1.0 |
| 10°-20° | 768.9 | 3.4 |
| 20°-30° | 1499.2 | 6.6 |
| 30°-40° | 2518.5 | 11.2 |
| 40°-50° | 3968.3 | 17.6 |
| 50°-60° | 5306.9 | 23.5 |
| 60°-70° | 5159.0 | 22.9 |
| 70°-80° | 2820.2 | 12.5 |
| 80°-90° | 286.8 | 1.3 |
| 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° | 22557.4 | 100.0 |
| 0°-180° | 22557.4 | 100.0 |

Coefficient of Utilization

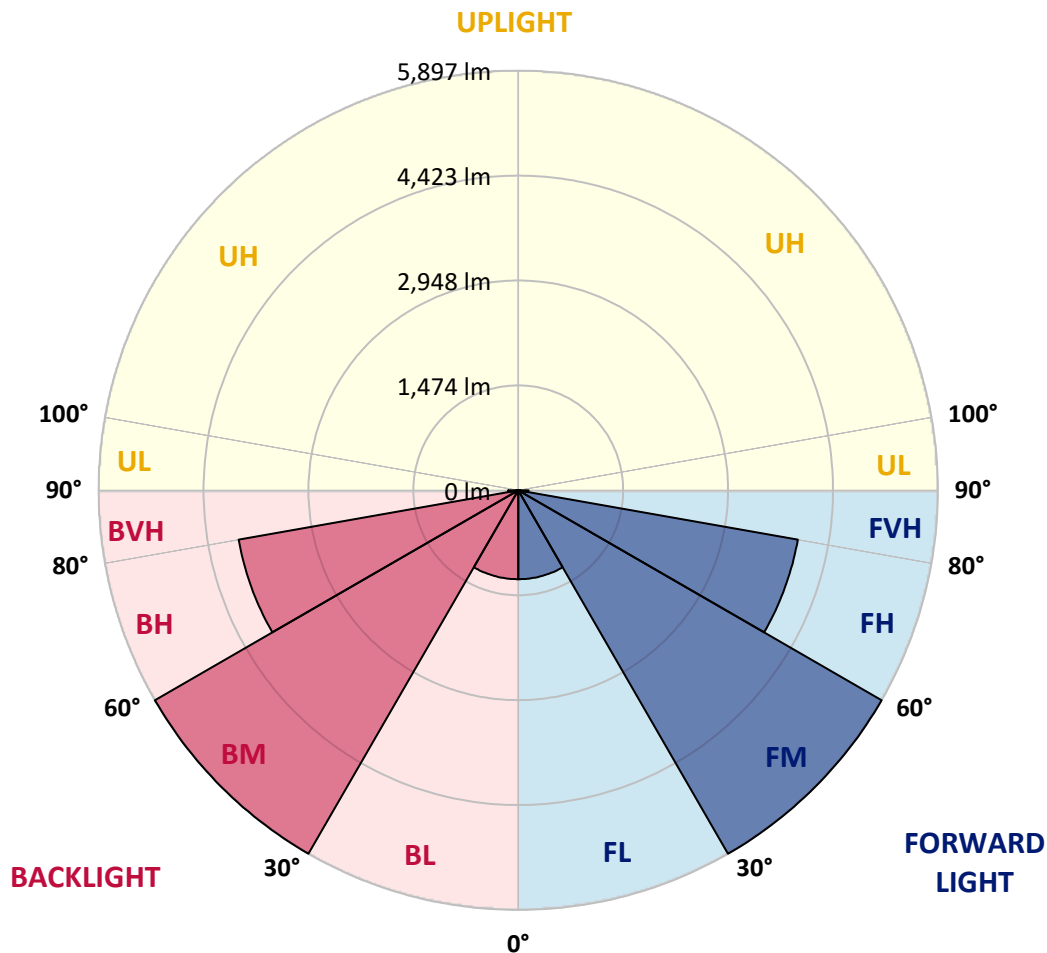


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1248.9 | 5.5 | | | |
| FM (30°-60°) | 5896.9 | 26.1 | | | |
| FH (60°-80°) | 3989.6 | 17.7 | | | G2/5000 |
| FVH (80°-90°) | 143.4 | 0.6 | | | G2/225 |
| BL (0°-30°) | 1248.9 | 5.5 | B3/2500 | | |
| BM (30°-60°) | 5896.9 | 26.1 | B4/8500 | | |
| BH (60°-80°) | 3989.6 | 17.7 | B4/5000 | | G4/5000 |
| BVH (80°-90°) | 143.4 | 0.6 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G4
 Type III Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2345.5 | 2345.5 | 2345.5 | 2345.5 | 2345.5 | 2345.5 | 2345.5 | 2345.5 | 2345.5 | 2345.5 | 2345.5 |
| 2.5° | 2328.8 | 2329.5 | 2333.3 | 2337.9 | 2341.6 | 2351.5 | 2353.7 | 2357.6 | 2359.1 | 2362.9 | 2362.9 |
| 5° | 2308.4 | 2309.9 | 2319.0 | 2331.1 | 2344.7 | 2368.9 | 2386.3 | 2405.9 | 2415.8 | 2426.4 | 2425.7 |
| 7.5° | 2306.1 | 2309.9 | 2322.7 | 2342.4 | 2365.1 | 2405.2 | 2441.5 | 2480.8 | 2507.3 | 2531.5 | 2530.0 |
| 10° | 2329.5 | 2335.6 | 2353.7 | 2383.3 | 2417.3 | 2467.2 | 2521.0 | 2573.9 | 2620.0 | 2657.1 | 2658.5 |
| 12.5° | 2365.1 | 2372.7 | 2401.4 | 2446.1 | 2497.5 | 2561.8 | 2625.3 | 2685.0 | 2748.5 | 2803.8 | 2808.3 |
| 15° | 2412.0 | 2421.8 | 2465.0 | 2531.5 | 2610.2 | 2686.6 | 2754.6 | 2815.9 | 2889.3 | 2965.7 | 2973.2 |
| 17.5° | 2481.5 | 2495.2 | 2551.9 | 2642.0 | 2745.6 | 2829.5 | 2900.6 | 2946.8 | 3008.0 | 3086.7 | 3101.0 |
| 20° | 2587.5 | 2604.9 | 2676.7 | 2784.1 | 2910.4 | 2998.2 | 3052.6 | 3062.5 | 3092.7 | 3163.1 | 3179.7 |
| 22.5° | 2725.1 | 2740.2 | 2820.4 | 2948.3 | 3089.7 | 3185.0 | 3213.7 | 3174.4 | 3171.4 | 3228.1 | 3244.0 |
| 25° | 2878.7 | 2892.3 | 2985.3 | 3129.0 | 3281.0 | 3386.2 | 3385.4 | 3309.0 | 3256.1 | 3299.9 | 3316.6 |
| 27.5° | 3051.1 | 3072.3 | 3161.6 | 3312.8 | 3475.4 | 3579.0 | 3573.0 | 3455.0 | 3354.4 | 3365.8 | 3380.1 |
| 30° | 3249.2 | 3272.7 | 3359.7 | 3513.2 | 3675.9 | 3777.2 | 3769.7 | 3613.8 | 3462.6 | 3432.3 | 3442.9 |
| 32.5° | 3495.1 | 3523.1 | 3605.6 | 3756.7 | 3900.5 | 3992.1 | 3970.1 | 3786.3 | 3592.7 | 3526.8 | 3536.7 |
| 35° | 3790.8 | 3807.4 | 3894.4 | 4043.5 | 4159.9 | 4222.7 | 4176.6 | 3986.0 | 3757.6 | 3678.1 | 3678.1 |
| 37.5° | 4090.3 | 4103.2 | 4200.8 | 4345.2 | 4457.9 | 4491.2 | 4401.2 | 4204.5 | 3973.1 | 3860.4 | 3862.7 |
| 40° | 4377.7 | 4412.6 | 4522.2 | 4670.5 | 4781.6 | 4790.8 | 4671.2 | 4454.1 | 4212.8 | 4096.4 | 4110.0 |
| 42.5° | 4678.0 | 4712.0 | 4842.9 | 5010.8 | 5109.2 | 5124.3 | 4984.3 | 4734.0 | 4483.6 | 4389.1 | 4404.3 |
| 45° | 4945.8 | 4973.0 | 5124.3 | 5319.4 | 5441.9 | 5481.2 | 5315.6 | 5054.7 | 4776.3 | 4684.1 | 4687.8 |
| 47.5° | 5132.5 | 5168.1 | 5334.5 | 5564.5 | 5743.0 | 5803.4 | 5640.9 | 5367.0 | 5064.5 | 4952.6 | 4962.4 |
| 50° | 5302.0 | 5320.9 | 5489.6 | 5740.7 | 5967.6 | 6092.4 | 5953.2 | 5675.6 | 5355.7 | 5237.0 | 5247.6 |
| 52.5° | 5396.5 | 5420.8 | 5584.2 | 5845.8 | 6114.3 | 6315.5 | 6230.8 | 5953.2 | 5637.1 | 5521.4 | 5534.2 |
| 55° | 5330.8 | 5348.9 | 5544.8 | 5869.3 | 6205.1 | 6453.2 | 6466.1 | 6224.8 | 5913.2 | 5811.8 | 5848.1 |
| 57.5° | 5031.2 | 5053.9 | 5293.0 | 5718.0 | 6216.4 | 6546.2 | 6643.1 | 6476.6 | 6171.0 | 6088.6 | 6109.8 |
| 60° | 4563.1 | 4577.4 | 4832.3 | 5310.3 | 5995.6 | 6584.7 | 6755.7 | 6682.4 | 6423.7 | 6341.2 | 6370.0 |
| 62.5° | 3728.8 | 3749.9 | 4054.7 | 4695.5 | 5528.9 | 6470.5 | 6864.7 | 6852.6 | 6658.9 | 6583.2 | 6609.0 |
| 65° | 2548.9 | 2586.0 | 2923.3 | 3733.4 | 4809.7 | 6121.1 | 6963.7 | 7050.7 | 6866.9 | 6771.6 | 6805.6 |
| 67.5° | 1539.2 | 1566.4 | 1810.7 | 2465.0 | 3680.4 | 5416.2 | 6861.6 | 7276.1 | 7013.6 | 6860.1 | 6888.0 |
| 68° | 1375.8 | 1400.8 | 1605.0 | 2224.4 | 3404.3 | 5217.3 | 6768.5 | 7301.8 | 7029.6 | 6858.6 | 6883.6 |
| 70° | 831.2 | 847.9 | 984.7 | 1375.1 | 2269.8 | 4138.8 | 6134.0 | 7280.6 | 7130.9 | 6879.8 | 6894.1 |
| 72.5° | 541.5 | 546.8 | 569.5 | 705.6 | 1159.5 | 2314.4 | 4603.9 | 6784.5 | 7282.9 | 7003.0 | 7000.8 |
| 75° | 450.0 | 447.0 | 449.3 | 465.1 | 571.8 | 1015.0 | 2690.3 | 5359.5 | 6942.5 | 6808.7 | 6761.0 |
| 77.5° | 380.4 | 378.2 | 377.5 | 378.2 | 382.7 | 490.1 | 1167.8 | 3338.6 | 5312.6 | 6022.8 | 6065.2 |
| 80° | 307.9 | 304.8 | 314.7 | 310.1 | 296.5 | 304.8 | 489.3 | 1388.7 | 2504.3 | 2694.1 | 2524.7 |
| 82.5° | 223.9 | 212.6 | 254.9 | 242.8 | 231.5 | 214.8 | 270.1 | 448.5 | 597.5 | 410.0 | 288.1 |
| 85° | 172.4 | 160.3 | 193.7 | 186.0 | 158.8 | 109.6 | 160.3 | 219.4 | 242.0 | 138.4 | 108.9 |
| 87.5° | 70.3 | 74.2 | 139.9 | 110.4 | 93.1 | 52.9 | 65.8 | 87.8 | 118.0 | 59.0 | 45.4 |
| 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)