

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: P479668

Luminaire Tested: **IFLD-L-SA8A-730-U-5WQ**

Issue Date: 02/26/2021

Test Information

Test Method: LM-79-08
Report Number: P479668
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-L-SA8A-730-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (128) 3000K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

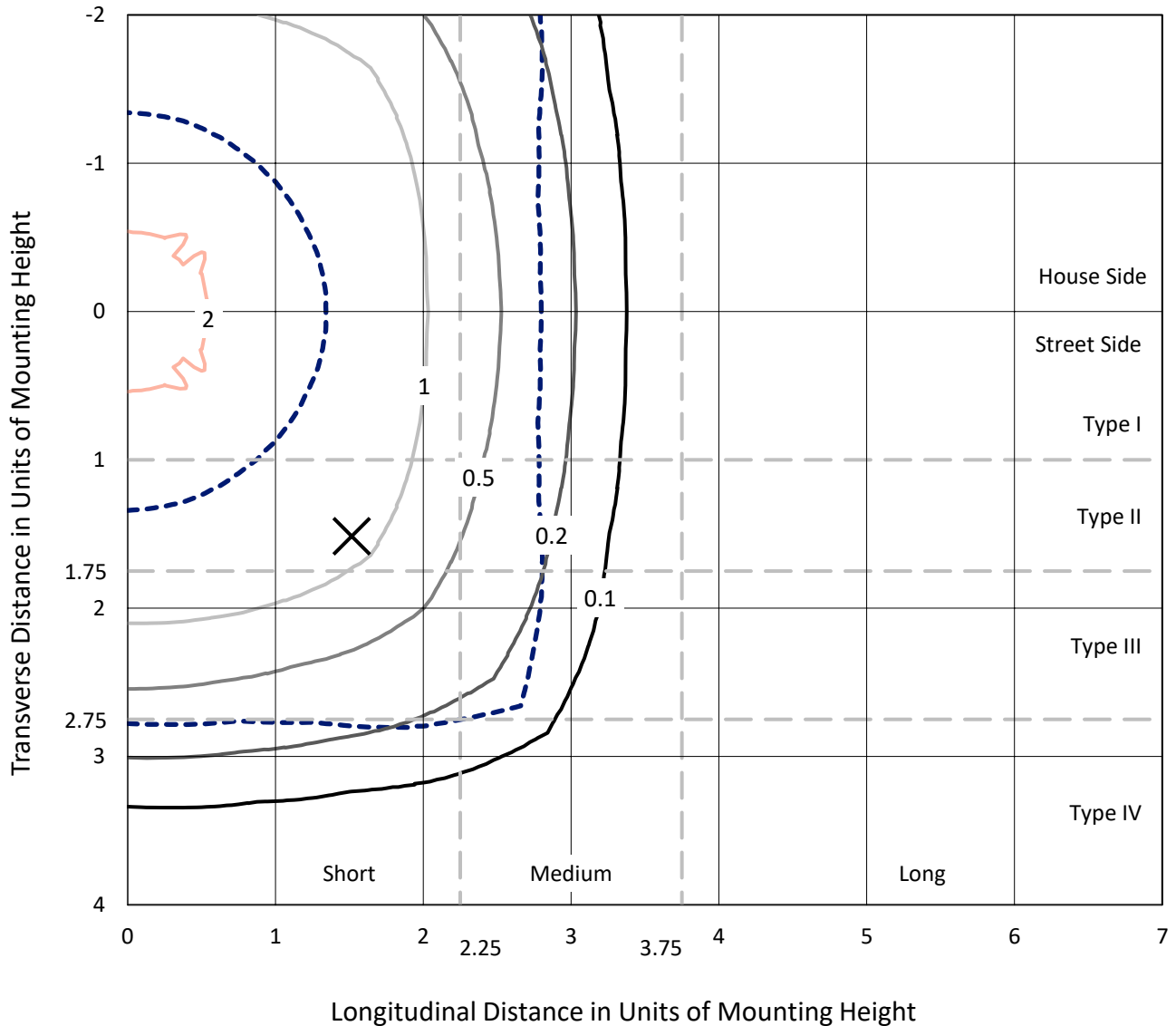
Lumens per Lamp: N/A
Luminaire Lumens: 32010.7 lumens
Efficiency: N/A
Efficacy: 129.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 247.8
Input Voltage (V): 120
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

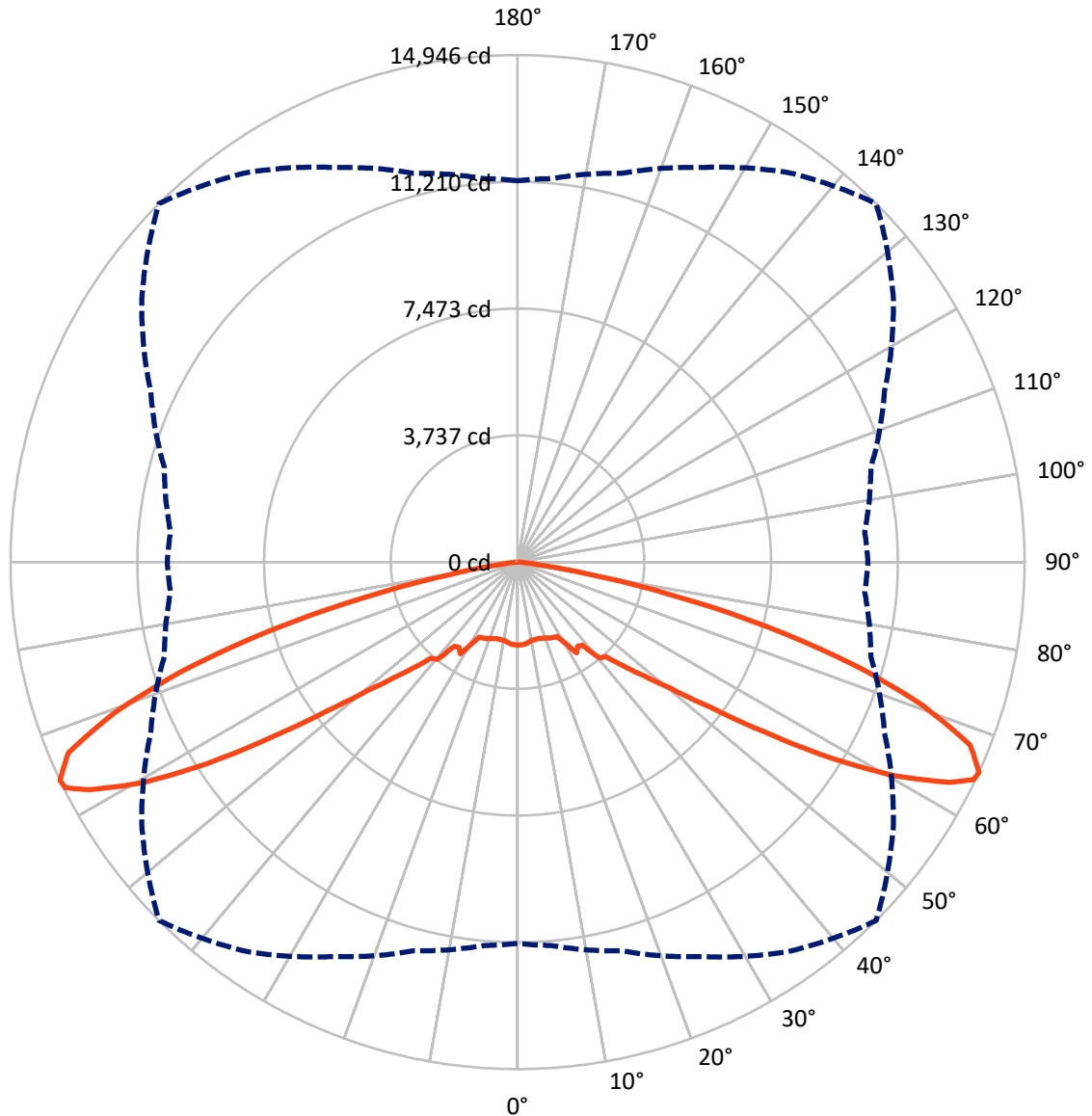
× Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.7 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 16005.4 | 0.0 | 16005.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16005.4 | 0.0 | 16005.4 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 32010.7 | 0.0 | 32010.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 229.7 | 0.7 |
| 10°-20° | 674.7 | 2.1 |
| 20°-30° | 1167.8 | 3.6 |
| 30°-40° | 1941.8 | 6.1 |
| 40°-50° | 3503.3 | 10.9 |
| 50°-60° | 7804.2 | 24.4 |
| 60°-70° | 11630.7 | 36.3 |
| 70°-80° | 4819.9 | 15.1 |
| 80°-90° | 238.7 | 0.7 |
| 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° | 32010.7 | 100.0 |
| 0°-180° | 32010.7 | 100.0 |

Coefficient of Utilization



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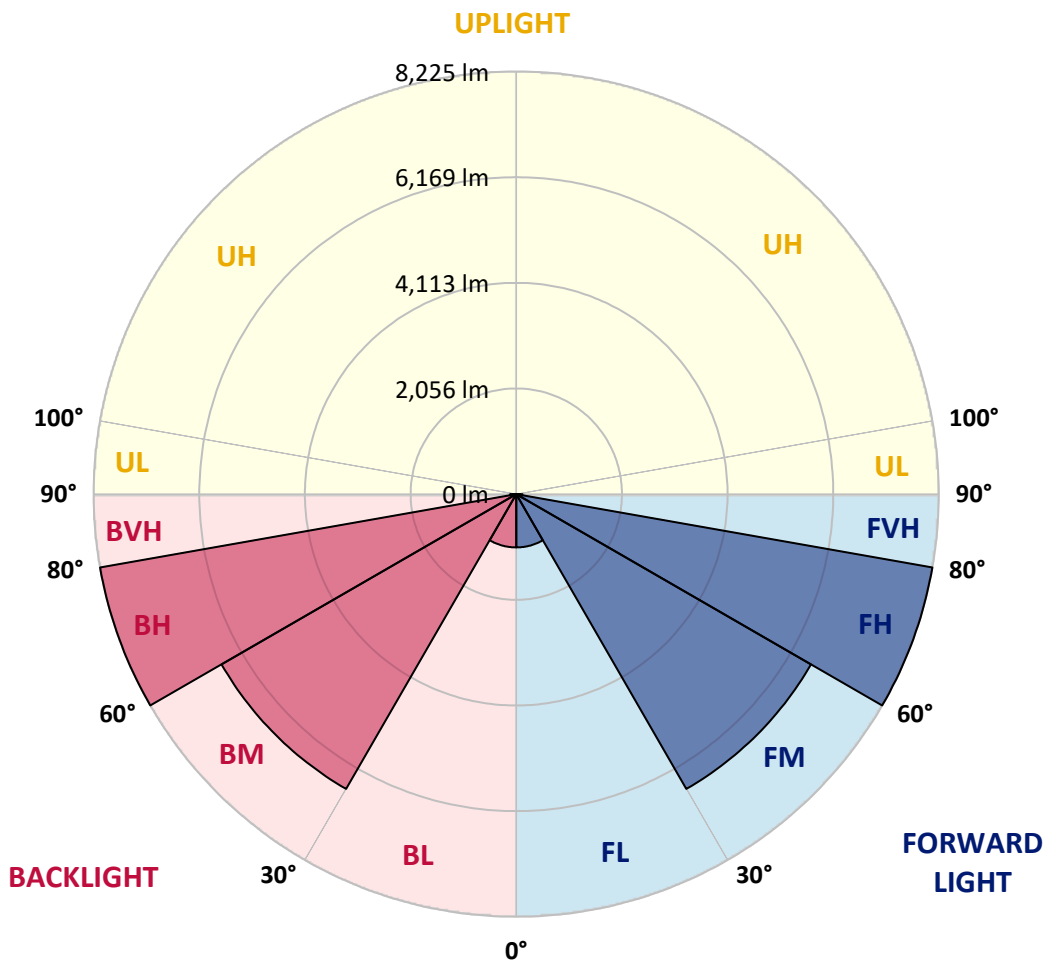
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1036.1 | 3.2 | | | |
| FM (30°-60°) | 6624.6 | 20.7 | | | |
| FH (60°-80°) | 8225.3 | 25.7 | | | G4/12000 |
| FVH (80°-90°) | 119.4 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1036.1 | 3.2 | B3/2500 | | |
| BM (30°-60°) | 6624.6 | 20.7 | B4/8500 | | |
| BH (60°-80°) | 8225.3 | 25.7 | B5 | | G4/12000 |
| BVH (80°-90°) | 119.4 | 0.4 | | | G2/225 |
| UL (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B5-U0-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2447.4 | 2447.4 | 2447.4 | 2447.4 | 2447.4 | 2447.4 | 2447.4 | 2447.4 | 2447.4 | 2447.4 | 2447.4 |
| 2.5° | 2419.1 | 2426.2 | 2422.7 | 2422.7 | 2433.3 | 2440.3 | 2443.9 | 2479.2 | 2465.1 | 2475.7 | 2465.1 |
| 5° | 2426.2 | 2426.2 | 2433.3 | 2426.2 | 2433.3 | 2426.2 | 2433.3 | 2422.7 | 2433.3 | 2440.3 | 2451.0 |
| 7.5° | 2412.0 | 2405.0 | 2394.4 | 2394.4 | 2390.8 | 2383.8 | 2373.1 | 2401.4 | 2387.3 | 2397.9 | 2415.6 |
| 10° | 2415.6 | 2405.0 | 2369.6 | 2376.7 | 2344.9 | 2344.9 | 2351.9 | 2351.9 | 2383.8 | 2419.1 | 2429.7 |
| 12.5° | 2415.6 | 2394.4 | 2383.8 | 2337.8 | 2337.8 | 2341.3 | 2359.0 | 2366.1 | 2387.3 | 2401.4 | 2436.8 |
| 15° | 2415.6 | 2405.0 | 2387.3 | 2327.2 | 2341.3 | 2334.2 | 2351.9 | 2351.9 | 2397.9 | 2422.7 | 2440.3 |
| 17.5° | 2429.7 | 2436.8 | 2405.0 | 2348.4 | 2351.9 | 2366.1 | 2355.5 | 2366.1 | 2422.7 | 2440.3 | 2465.1 |
| 20° | 2433.3 | 2405.0 | 2394.4 | 2359.0 | 2390.8 | 2383.8 | 2380.2 | 2401.4 | 2419.1 | 2451.0 | 2479.2 |
| 22.5° | 2426.2 | 2436.8 | 2394.4 | 2390.8 | 2419.1 | 2433.3 | 2440.3 | 2415.6 | 2436.8 | 2458.0 | 2482.8 |
| 25° | 2486.3 | 2447.4 | 2436.8 | 2429.7 | 2443.9 | 2458.0 | 2451.0 | 2472.2 | 2472.2 | 2496.9 | 2528.8 |
| 27.5° | 2649.0 | 2652.5 | 2631.3 | 2546.4 | 2518.2 | 2486.3 | 2500.5 | 2557.1 | 2624.3 | 2677.3 | 2687.9 |
| 30° | 2723.3 | 2737.4 | 2794.0 | 2779.9 | 2769.3 | 2779.9 | 2776.3 | 2790.5 | 2797.6 | 2801.1 | 2790.5 |
| 32.5° | 2790.5 | 2783.4 | 2758.6 | 2822.3 | 3031.0 | 3190.1 | 3038.0 | 2829.4 | 2783.4 | 2769.3 | 2783.4 |
| 35° | 3034.5 | 3034.5 | 2981.5 | 2900.1 | 3009.8 | 3048.7 | 2977.9 | 2878.9 | 2935.5 | 3052.2 | 3059.3 |
| 37.5° | 3349.3 | 3303.3 | 3324.5 | 3313.9 | 3193.7 | 3108.8 | 3232.6 | 3296.2 | 3306.8 | 3303.3 | 3338.7 |
| 40° | 3536.7 | 3504.9 | 3473.1 | 3529.7 | 3639.3 | 3717.1 | 3607.5 | 3455.4 | 3494.3 | 3572.1 | 3540.3 |
| 42.5° | 3964.7 | 3883.3 | 3890.4 | 3833.8 | 3830.3 | 3805.5 | 3780.8 | 3791.4 | 3848.0 | 3936.4 | 3950.5 |
| 45° | 4403.2 | 4442.1 | 4417.4 | 4311.3 | 4360.8 | 4360.8 | 4290.1 | 4343.1 | 4371.4 | 4474.0 | 4488.1 |
| 47.5° | 5089.4 | 5071.7 | 5082.3 | 4986.8 | 4983.2 | 5008.0 | 4983.2 | 4986.8 | 5075.2 | 5068.1 | 5029.2 |
| 50° | 5892.2 | 5941.7 | 5955.8 | 5909.9 | 5853.3 | 5842.7 | 5803.8 | 5853.3 | 5906.3 | 5909.9 | 5878.0 |
| 52.5° | 7002.7 | 7055.8 | 7055.8 | 7069.9 | 7140.7 | 7105.3 | 7098.2 | 7101.7 | 6999.2 | 6928.4 | 6963.8 |
| 55° | 8403.3 | 8420.9 | 8481.1 | 8604.9 | 8820.6 | 8848.9 | 8714.5 | 8654.4 | 8466.9 | 8353.8 | 8442.2 |
| 57.5° | 9786.1 | 9856.9 | 10023.1 | 10344.9 | 10610.2 | 10900.2 | 10511.2 | 10115.0 | 9747.2 | 9566.8 | 9598.7 |
| 60° | 10935.6 | 11038.1 | 11356.4 | 11805.6 | 12541.2 | 12806.5 | 12148.7 | 11469.6 | 10723.4 | 10171.6 | 10394.4 |
| 62.5° | 11476.7 | 11635.8 | 11904.6 | 12813.6 | 13917.0 | 14299.0 | 13333.5 | 12099.1 | 10967.4 | 10436.9 | 10426.3 |
| 64° | 11480.2 | 11505.0 | 12042.6 | 13022.2 | 14157.5 | 14896.7 | 13619.9 | 12099.1 | 11027.5 | 10373.2 | 10493.5 |
| 65° | 11243.3 | 11345.8 | 11865.7 | 12831.2 | 14005.4 | 14946.2 | 13520.9 | 11932.9 | 10779.9 | 10270.7 | 10327.2 |
| 67.5° | 10168.1 | 10164.6 | 10645.6 | 11604.0 | 13234.4 | 14383.9 | 12679.2 | 11002.8 | 10168.1 | 9616.4 | 9683.6 |
| 70° | 7713.6 | 7837.4 | 8297.2 | 9474.9 | 11451.9 | 12682.7 | 11087.6 | 9351.1 | 8311.3 | 7869.2 | 7844.5 |
| 72.5° | 4615.4 | 4778.1 | 5365.2 | 6801.1 | 8894.9 | 10390.9 | 8799.4 | 6917.8 | 5665.8 | 4965.6 | 4983.2 |
| 75° | 2104.4 | 2224.6 | 2627.8 | 3798.4 | 5927.6 | 7596.9 | 5962.9 | 4000.0 | 2868.3 | 2422.7 | 2359.0 |
| 77.5° | 590.6 | 664.9 | 887.7 | 1743.6 | 3253.8 | 4555.3 | 3345.7 | 1927.5 | 1252.0 | 1039.8 | 1018.6 |
| 80° | 265.3 | 279.4 | 314.8 | 424.4 | 1032.7 | 2008.9 | 1382.9 | 707.3 | 470.4 | 389.0 | 371.4 |
| 82.5° | 145.0 | 155.6 | 205.1 | 219.3 | 293.5 | 534.0 | 456.2 | 332.5 | 282.9 | 226.4 | 219.3 |
| 85° | 81.3 | 84.9 | 116.7 | 116.7 | 141.5 | 155.6 | 166.2 | 176.8 | 173.3 | 127.3 | 123.8 |
| 87.5° | 24.8 | 28.3 | 35.4 | 35.4 | 35.4 | 35.4 | 56.6 | 77.8 | 84.9 | 60.1 | 60.1 |
| 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)