

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: P479778

Luminaire Tested: **IFLD-M-SA4D-750-U-5WQ**

Issue Date: 02/26/2021



Test Information

Test Method: LM-79-08
Report Number: P479778
Test Lab: INNOVATION CENTER(G2)
Issue Date: 02/26/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-M-SA4D-750-U-5WQ
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ 5WQ distribution lens
Light Source: (64) 5000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

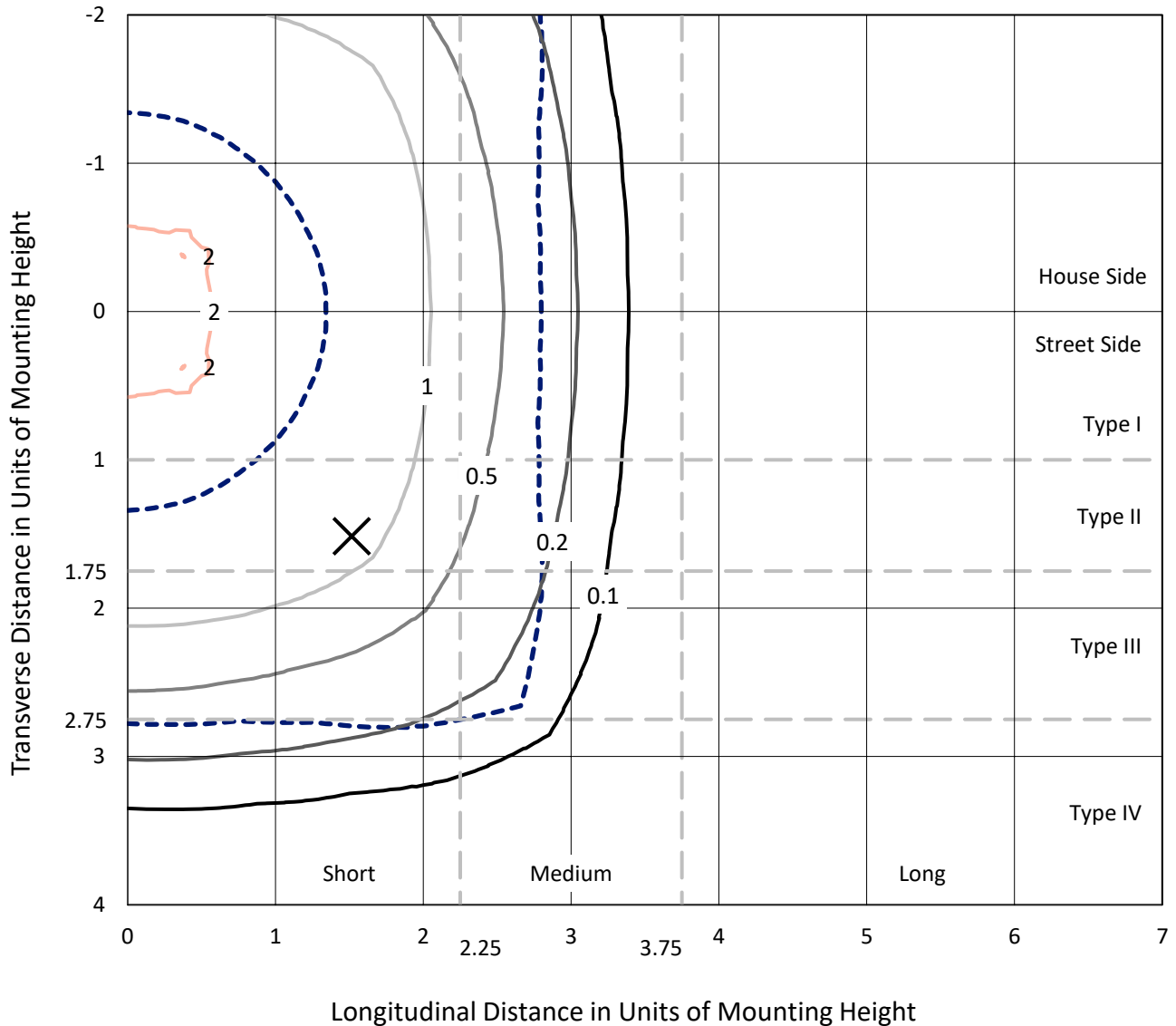
Lumens per Lamp: N/A
Luminaire Lumens: 32838.4 lumens
Efficiency: N/A
Efficacy: 131.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G4

Input Watts (W): 249.7
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

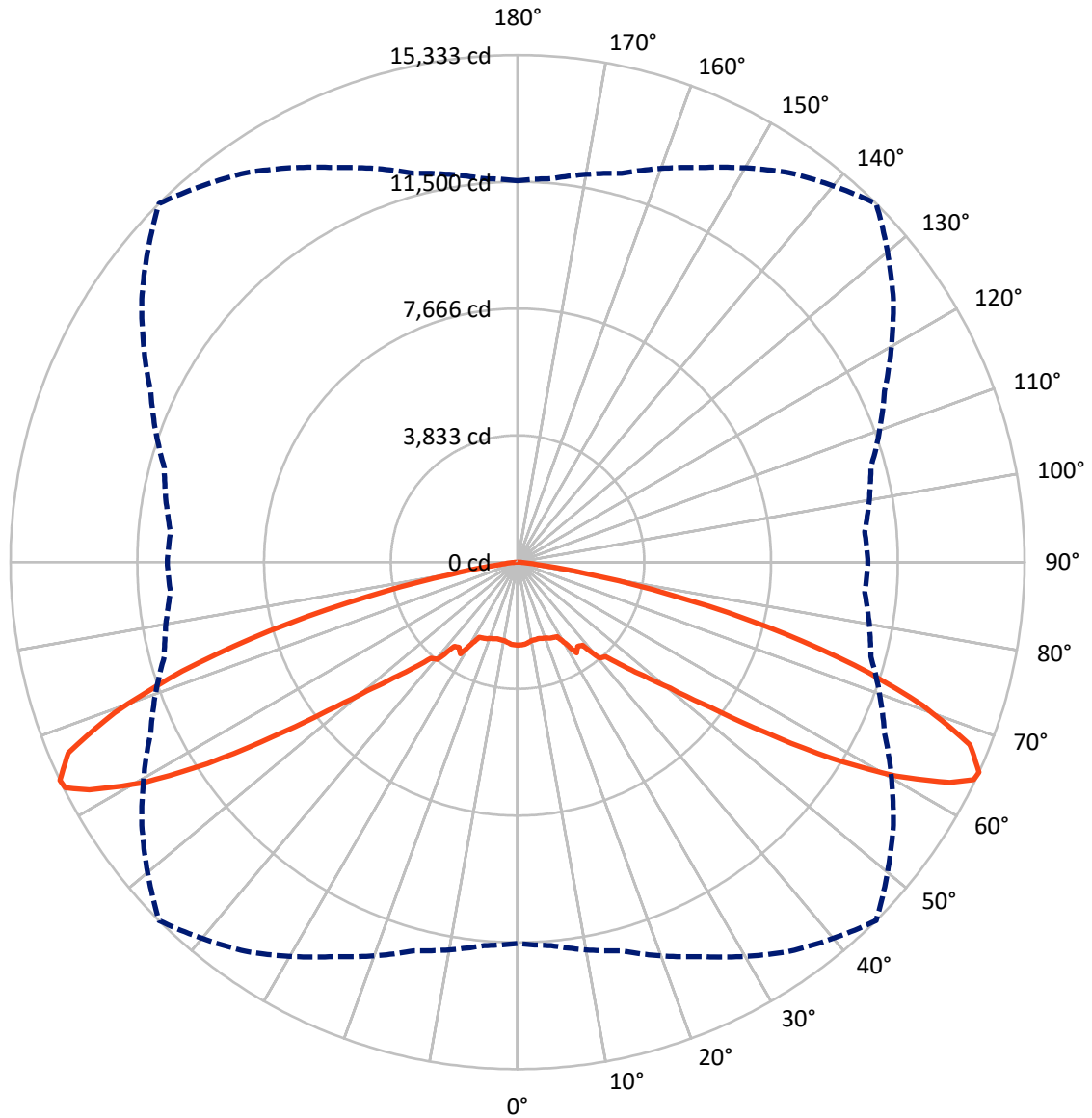
✕ Max cd
 - - - 1/2 Max cd



Based on 30 foot mounting height. Maximum calculated value = 2.8 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 | 16419.2 | 0.0 | 16419.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 16419.2 | 0.0 | 16419.2 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 32838.4 | 0.0 | 32838.4 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 235.6 | 0.7 |
| 10°-20° | 692.1 | 2.1 |
| 20°-30° | 1198.0 | 3.6 |
| 30°-40° | 1992.0 | 6.1 |
| 40°-50° | 3593.9 | 10.9 |
| 50°-60° | 8006.0 | 24.4 |
| 60°-70° | 11931.5 | 36.3 |
| 70°-80° | 4944.5 | 15.1 |
| 80°-90° | 244.9 | 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° | 32838.4 | 100.0 |
| 0°-180° | 32838.4 | 100.0 |

Coefficient of Utilization



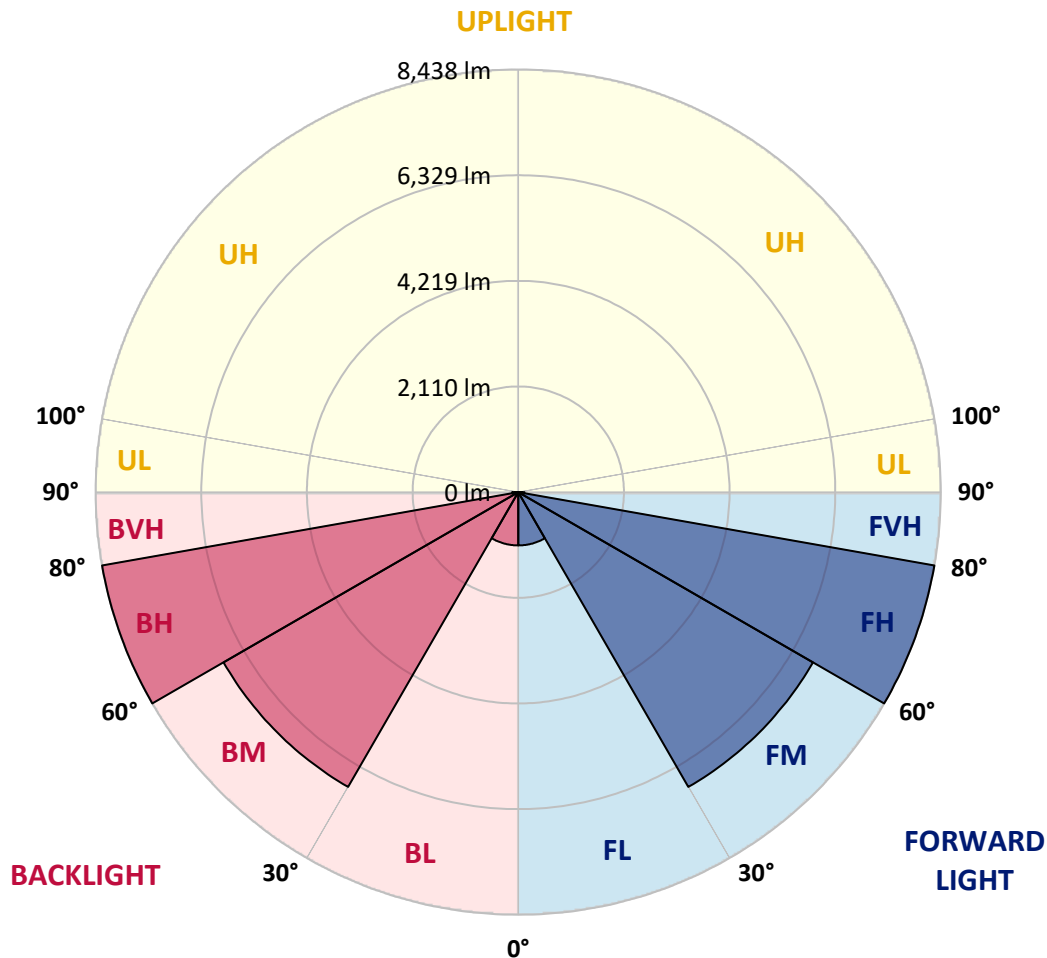
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|----------|
| | | | B | U | G |
| FL (0°-30°) | 1062.8 | 3.2 | | | |
| FM (30°-60°) | 6795.9 | 20.7 | | | |
| FH (60°-80°) | 8438.0 | 25.7 | | | G4/12000 |
| FVH (80°-90°) | 122.4 | 0.4 | | | G2/225 |
| BL (0°-30°) | 1062.8 | 3.2 | B3/2500 | | |
| BM (30°-60°) | 6795.9 | 20.7 | B4/8500 | | |
| BH (60°-80°) | 8438.0 | 25.7 | B5 | | G4/12000 |
| BVH (80°-90°) | 122.4 | 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° | 2510.7 | 2510.7 | 2510.7 | 2510.7 | 2510.7 | 2510.7 | 2510.7 | 2510.7 | 2510.7 | 2510.7 | 2510.7 |
| 2.5° | 2481.7 | 2488.9 | 2485.3 | 2485.3 | 2496.2 | 2503.4 | 2507.1 | 2543.4 | 2528.8 | 2539.7 | 2528.8 |
| 5° | 2488.9 | 2488.9 | 2496.2 | 2488.9 | 2496.2 | 2488.9 | 2496.2 | 2485.3 | 2496.2 | 2503.4 | 2514.3 |
| 7.5° | 2474.4 | 2467.2 | 2456.3 | 2456.3 | 2452.6 | 2445.4 | 2434.5 | 2463.5 | 2449.0 | 2459.9 | 2478.0 |
| 10° | 2478.0 | 2467.2 | 2430.9 | 2438.1 | 2405.5 | 2405.5 | 2412.7 | 2412.7 | 2445.4 | 2481.7 | 2492.6 |
| 12.5° | 2478.0 | 2456.3 | 2445.4 | 2398.2 | 2398.2 | 2401.9 | 2420.0 | 2427.3 | 2449.0 | 2463.5 | 2499.8 |
| 15° | 2478.0 | 2467.2 | 2449.0 | 2387.3 | 2401.9 | 2394.6 | 2412.7 | 2412.7 | 2459.9 | 2485.3 | 2503.4 |
| 17.5° | 2492.6 | 2499.8 | 2467.2 | 2409.1 | 2412.7 | 2427.3 | 2416.4 | 2427.3 | 2485.3 | 2503.4 | 2528.8 |
| 20° | 2496.2 | 2467.2 | 2456.3 | 2420.0 | 2452.6 | 2445.4 | 2441.8 | 2463.5 | 2481.7 | 2514.3 | 2543.4 |
| 22.5° | 2488.9 | 2499.8 | 2456.3 | 2452.6 | 2481.7 | 2496.2 | 2503.4 | 2478.0 | 2499.8 | 2521.6 | 2547.0 |
| 25° | 2550.6 | 2510.7 | 2499.8 | 2492.6 | 2507.1 | 2521.6 | 2514.3 | 2536.1 | 2536.1 | 2561.5 | 2594.1 |
| 27.5° | 2717.5 | 2721.1 | 2699.4 | 2612.3 | 2583.3 | 2550.6 | 2565.1 | 2623.2 | 2692.1 | 2746.5 | 2757.4 |
| 30° | 2793.7 | 2808.2 | 2866.3 | 2851.7 | 2840.9 | 2851.7 | 2848.1 | 2862.6 | 2869.9 | 2873.5 | 2862.6 |
| 32.5° | 2862.6 | 2855.4 | 2830.0 | 2895.3 | 3109.3 | 3272.6 | 3116.6 | 2902.5 | 2855.4 | 2840.9 | 2855.4 |
| 35° | 3113.0 | 3113.0 | 3058.6 | 2975.1 | 3087.6 | 3127.5 | 3054.9 | 2953.3 | 3011.4 | 3131.1 | 3138.4 |
| 37.5° | 3435.9 | 3388.7 | 3410.5 | 3399.6 | 3276.2 | 3189.2 | 3316.2 | 3381.5 | 3392.3 | 3388.7 | 3425.0 |
| 40° | 3628.2 | 3595.5 | 3562.9 | 3620.9 | 3733.4 | 3813.2 | 3700.7 | 3544.7 | 3584.6 | 3664.5 | 3631.8 |
| 42.5° | 4067.2 | 3983.7 | 3991.0 | 3932.9 | 3929.3 | 3903.9 | 3878.5 | 3889.4 | 3947.5 | 4038.2 | 4052.7 |
| 45° | 4517.1 | 4557.0 | 4531.6 | 4422.8 | 4473.5 | 4473.5 | 4401.0 | 4455.4 | 4484.4 | 4589.6 | 4604.2 |
| 47.5° | 5221.0 | 5202.8 | 5213.7 | 5115.7 | 5112.1 | 5137.5 | 5112.1 | 5115.7 | 5206.4 | 5199.2 | 5159.3 |
| 50° | 6044.5 | 6095.3 | 6109.9 | 6062.7 | 6004.6 | 5993.8 | 5953.8 | 6004.6 | 6059.1 | 6062.7 | 6030.0 |
| 52.5° | 7183.8 | 7238.2 | 7238.2 | 7252.7 | 7325.3 | 7289.0 | 7281.8 | 7285.4 | 7180.2 | 7107.6 | 7143.9 |
| 55° | 8620.6 | 8638.7 | 8700.4 | 8827.4 | 9048.7 | 9077.7 | 8939.8 | 8878.2 | 8685.9 | 8569.8 | 8660.5 |
| 57.5° | 10039.2 | 10111.7 | 10282.3 | 10612.4 | 10884.5 | 11182.0 | 10782.9 | 10376.6 | 9999.3 | 9814.2 | 9846.9 |
| 60° | 11218.3 | 11323.5 | 11650.1 | 12110.9 | 12865.5 | 13137.6 | 12462.8 | 11766.2 | 11000.6 | 10434.6 | 10663.2 |
| 62.5° | 11773.4 | 11936.7 | 12212.5 | 13144.9 | 14276.9 | 14668.7 | 13678.2 | 12412.0 | 11251.0 | 10706.8 | 10695.9 |
| 64° | 11777.1 | 11802.5 | 12354.0 | 13359.0 | 14523.6 | 15281.9 | 13972.1 | 12412.0 | 11312.7 | 10641.5 | 10764.8 |
| 65° | 11534.0 | 11639.2 | 12172.5 | 13163.0 | 14367.6 | 15332.7 | 13870.5 | 12241.5 | 11058.7 | 10536.2 | 10594.3 |
| 67.5° | 10431.0 | 10427.4 | 10920.8 | 11904.1 | 13576.6 | 14755.8 | 13007.0 | 11287.3 | 10431.0 | 9865.0 | 9934.0 |
| 70° | 7913.1 | 8040.0 | 8511.7 | 9719.9 | 11748.0 | 13010.7 | 11374.3 | 9592.9 | 8526.2 | 8072.7 | 8047.3 |
| 72.5° | 4734.8 | 4901.7 | 5503.9 | 6977.0 | 9124.9 | 10659.6 | 9026.9 | 7096.7 | 5812.3 | 5094.0 | 5112.1 |
| 75° | 2158.8 | 2282.1 | 2695.7 | 3896.7 | 6080.8 | 7793.3 | 6117.1 | 4103.5 | 2942.5 | 2485.3 | 2420.0 |
| 77.5° | 605.9 | 682.1 | 910.7 | 1788.7 | 3337.9 | 4673.1 | 3432.3 | 1977.4 | 1284.4 | 1066.7 | 1044.9 |
| 80° | 272.1 | 286.6 | 322.9 | 435.4 | 1059.4 | 2060.8 | 1418.6 | 725.6 | 482.5 | 399.1 | 381.0 |
| 82.5° | 148.8 | 159.6 | 210.4 | 224.9 | 301.1 | 547.9 | 468.0 | 341.0 | 290.3 | 232.2 | 224.9 |
| 85° | 83.4 | 87.1 | 119.7 | 119.7 | 145.1 | 159.6 | 170.5 | 181.4 | 177.8 | 130.6 | 127.0 |
| 87.5° | 25.4 | 29.0 | 36.3 | 36.3 | 36.3 | 36.3 | 58.1 | 79.8 | 87.1 | 61.7 | 61.7 |
| 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)