

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: P233438

Luminaire Tested: **VERD-C02H8-D-U-T1**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P233438
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1710-389-18)
Test Lab: INNOVATION CENTER(G2)
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VERD-C02H8-D-U-T1
Description: VERDEON ROADWAY AND AREA LUMINAIRE
(2) 70 CRI, 4000K, 960mA LEDS AND TYPE I OPTICS
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14682 lumens
Efficiency: N/A
Efficacy: 133.5 lumens/watt
Luminous Opening: Rectangular (W 0.79' x L: 1.25' x H: 0')
IES Classification: Type V - Short - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 110
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: 28.75 FT

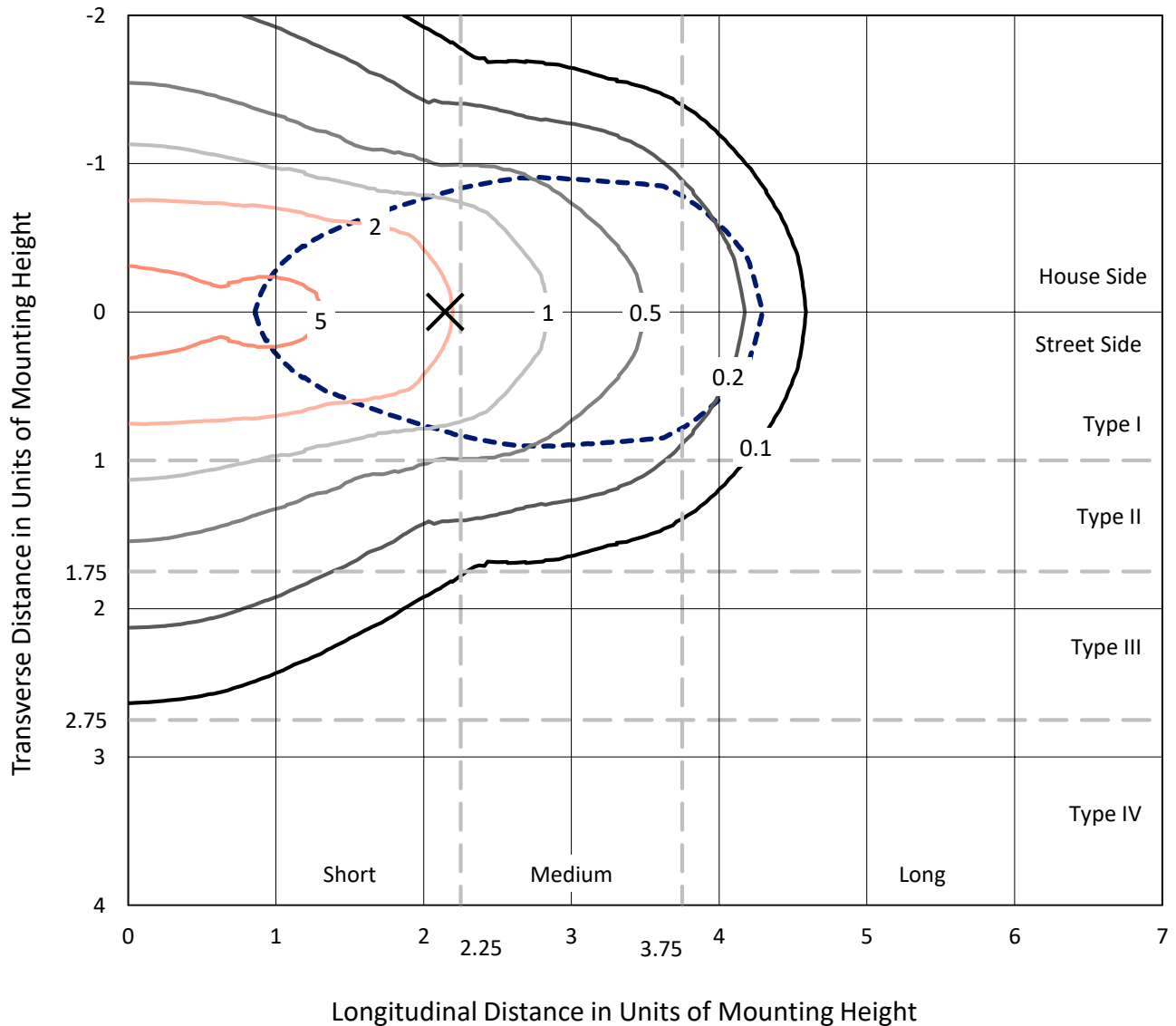


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

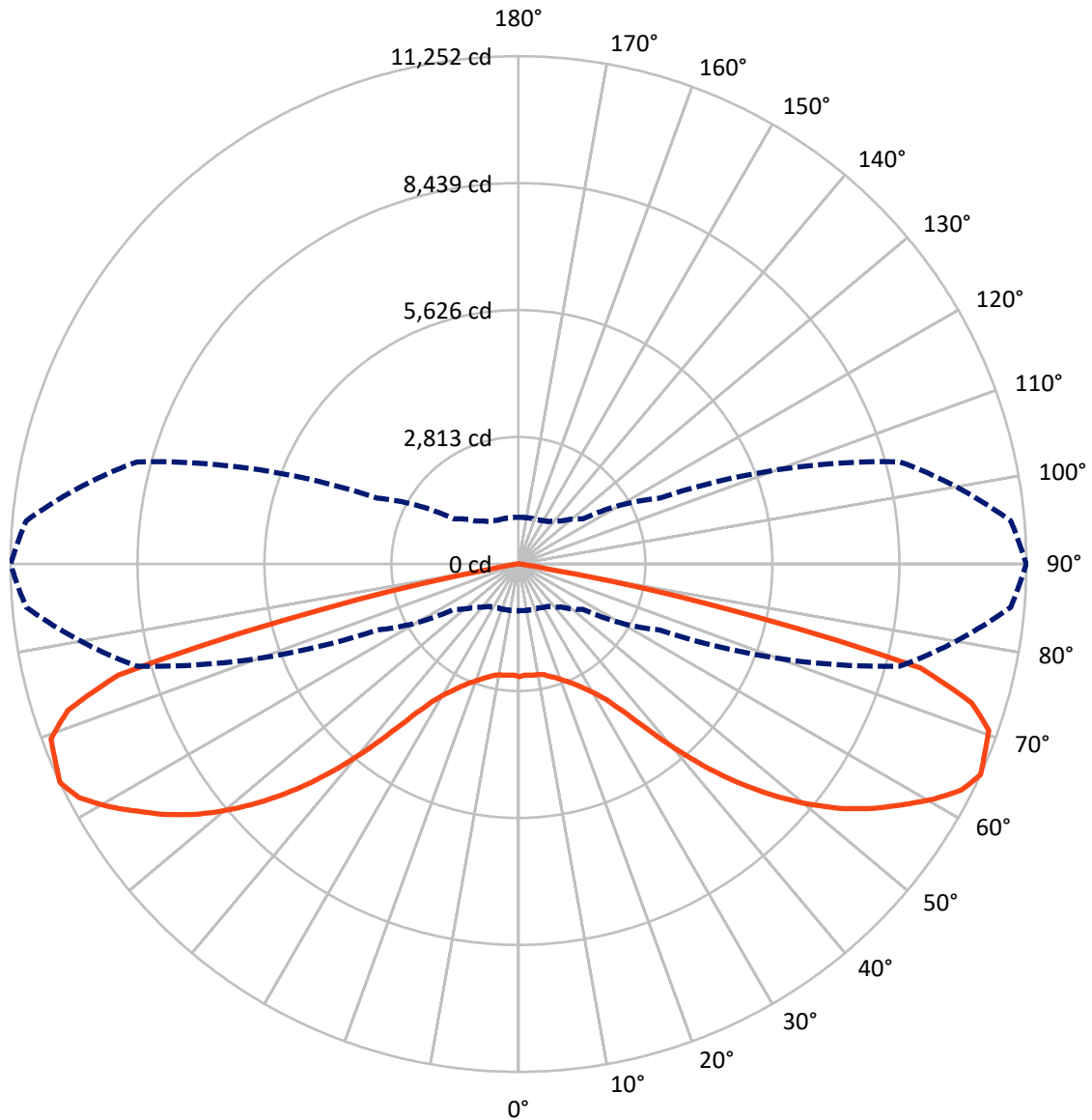


Based on 20 foot mounting height. Maximum calculated value = 6.2 fc
 Type V - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7341.0 | 0.0 | 7341.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7341.0 | 0.0 | 7341.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 14682.0 | 0.0 | 14682.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 236.7 | 1.6 |
| 10°-20° | 699.2 | 4.8 |
| 20°-30° | 1146.4 | 7.8 |
| 30°-40° | 1657.7 | 11.3 |
| 40°-50° | 2427.4 | 16.5 |
| 50°-60° | 3148.9 | 21.4 |
| 60°-70° | 3330.2 | 22.7 |
| 70°-80° | 1955.0 | 13.3 |
| 80°-90° | 80.5 | 0.5 |
| 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° | 14682.0 | 100.0 |
| 0°-180° | 14682.0 | 100.0 |



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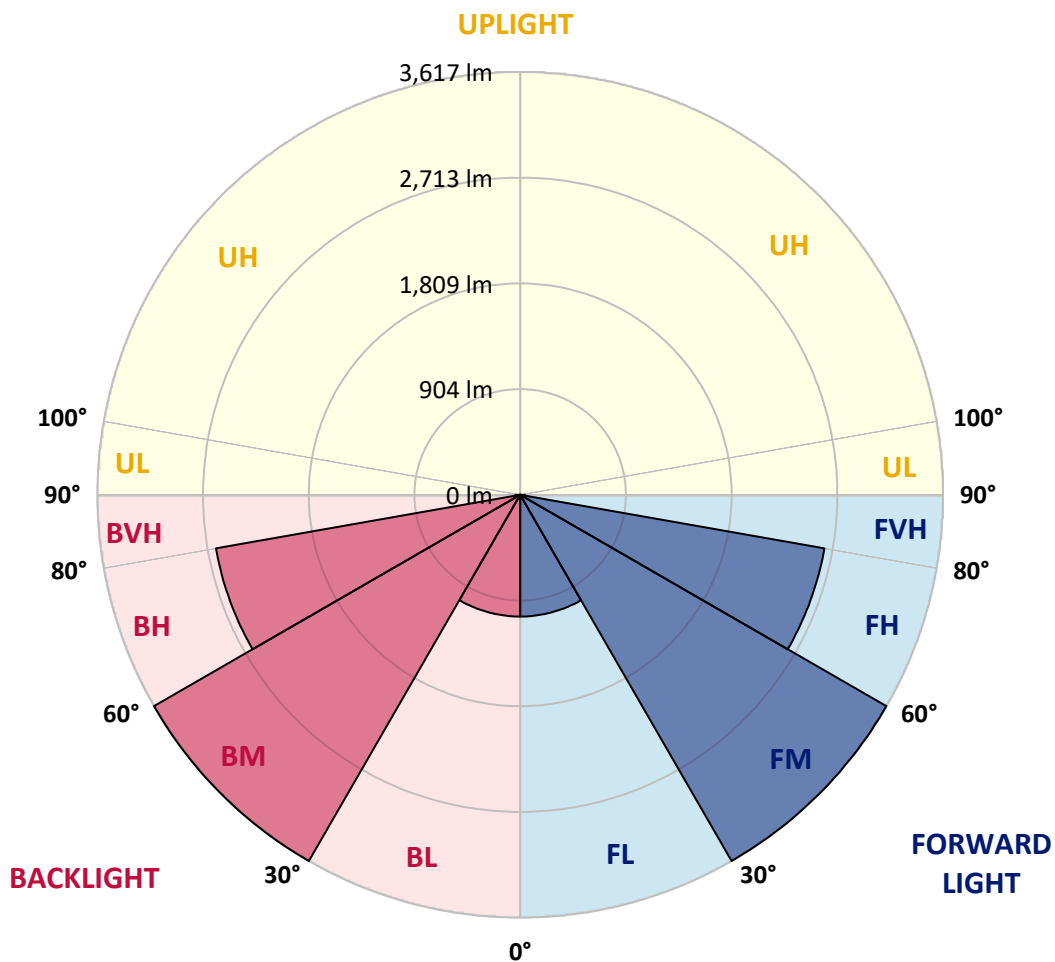
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1041.1 | 7.1 | | | |
| FM | (30°-60°) | 3617.0 | 24.6 | | | |
| FH | (60°-80°) | 2642.6 | 18.0 | | | G2/5000 |
| FVH | (80°-90°) | 40.3 | 0.3 | | | G1/100 |
| BL | (0°-30°) | 1041.1 | 7.1 | B3/2500 | | |
| BM | (30°-60°) | 3617.0 | 24.6 | B3/5000 | | |
| BH | (60°-80°) | 2642.6 | 18.0 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 40.3 | 0.3 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 75° | 85° | 90° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|
| 0° | 2499.0 | 2499.0 | 2499.0 | 2499.0 | 2499.0 | 2499.0 | 2499.0 | 2499.0 | 2499.0 | 2499.0 | 2499.0 |
| 2.5° | 2523.1 | 2520.5 | 2506.6 | 2486.3 | 2480.0 | 2485.1 | 2483.8 | 2477.5 | 2477.5 | 2480.0 | 2463.5 |
| 5° | 2507.9 | 2504.1 | 2487.6 | 2482.5 | 2483.8 | 2490.1 | 2488.9 | 2483.8 | 2486.3 | 2483.8 | 2471.1 |
| 7.5° | 2481.3 | 2477.5 | 2467.3 | 2464.8 | 2462.2 | 2472.4 | 2482.5 | 2488.9 | 2496.5 | 2492.7 | 2483.8 |
| 10° | 2455.9 | 2448.3 | 2449.6 | 2436.9 | 2442.0 | 2461.0 | 2471.1 | 2482.5 | 2493.9 | 2492.7 | 2490.1 |
| 12.5° | 2417.9 | 2410.3 | 2414.1 | 2410.3 | 2428.0 | 2450.8 | 2481.3 | 2502.8 | 2515.5 | 2511.7 | 2515.5 |
| 15° | 2371.0 | 2368.5 | 2374.8 | 2379.9 | 2411.6 | 2463.5 | 2496.5 | 2543.3 | 2571.2 | 2572.5 | 2581.4 |
| 17.5° | 2317.8 | 2312.7 | 2324.1 | 2343.1 | 2401.4 | 2458.4 | 2540.8 | 2592.8 | 2633.3 | 2639.7 | 2647.3 |
| 20° | 2227.8 | 2230.3 | 2248.1 | 2281.0 | 2363.4 | 2466.0 | 2567.4 | 2646.0 | 2704.3 | 2719.5 | 2736.0 |
| 22.5° | 2115.0 | 2121.4 | 2154.3 | 2222.7 | 2329.2 | 2457.2 | 2596.6 | 2708.1 | 2791.7 | 2825.9 | 2836.1 |
| 25° | 1997.2 | 2007.3 | 2060.5 | 2151.8 | 2289.9 | 2453.4 | 2633.3 | 2780.3 | 2899.4 | 2953.9 | 2960.3 |
| 27.5° | 1892.0 | 1900.9 | 1969.3 | 2085.9 | 2253.2 | 2454.6 | 2666.3 | 2867.8 | 3028.7 | 3108.5 | 3121.2 |
| 30° | 1785.5 | 1795.7 | 1866.6 | 2011.1 | 2216.4 | 2452.1 | 2704.3 | 2966.6 | 3183.3 | 3297.4 | 3316.4 |
| 32.5° | 1694.3 | 1704.4 | 1777.9 | 1928.7 | 2170.8 | 2448.3 | 2749.9 | 3087.0 | 3369.6 | 3554.6 | 3580.0 |
| 35° | 1617.0 | 1628.4 | 1703.2 | 1851.4 | 2112.5 | 2449.6 | 2815.8 | 3251.7 | 3658.5 | 3963.9 | 4013.3 |
| 37.5° | 1552.4 | 1563.8 | 1629.7 | 1779.2 | 2052.9 | 2439.4 | 2895.6 | 3459.6 | 4041.2 | 4546.9 | 4638.1 |
| 40° | 1511.8 | 1522.0 | 1571.4 | 1704.4 | 1980.7 | 2416.6 | 2988.2 | 3690.2 | 4508.8 | 5246.4 | 5406.0 |
| 42.5° | 1470.0 | 1481.4 | 1522.0 | 1636.0 | 1903.4 | 2382.4 | 3069.3 | 3922.1 | 4996.7 | 5980.1 | 6208.2 |
| 45° | 1424.4 | 1432.0 | 1476.3 | 1579.0 | 1827.4 | 2329.2 | 3140.2 | 4143.9 | 5508.7 | 6725.2 | 6972.4 |
| 47.5° | 1386.4 | 1390.2 | 1426.9 | 1522.0 | 1747.5 | 2250.6 | 3159.2 | 4334.0 | 6025.7 | 7450.1 | 7692.1 |
| 50° | 1361.0 | 1354.7 | 1388.9 | 1471.3 | 1672.8 | 2141.6 | 3126.3 | 4475.9 | 6582.0 | 8142.0 | 8371.4 |
| 52.5° | 1321.7 | 1320.5 | 1347.1 | 1421.8 | 1601.8 | 2016.2 | 3008.4 | 4544.3 | 7138.4 | 8789.6 | 9002.5 |
| 55° | 1285.0 | 1285.0 | 1306.5 | 1364.8 | 1527.0 | 1886.9 | 2806.9 | 4516.4 | 7671.9 | 9402.9 | 9558.8 |
| 57.5° | 1231.8 | 1230.5 | 1248.2 | 1301.5 | 1439.6 | 1765.3 | 2552.2 | 4387.2 | 8105.3 | 9970.6 | 10055.5 |
| 60° | 1179.8 | 1178.5 | 1188.7 | 1229.2 | 1355.9 | 1634.7 | 2279.8 | 4133.7 | 8534.9 | 10472.5 | 10573.8 |
| 62.5° | 1113.9 | 1112.6 | 1122.8 | 1158.3 | 1262.2 | 1495.3 | 2012.4 | 3824.5 | 8787.0 | 10761.4 | 11023.7 |
| 65° | 1035.3 | 1036.6 | 1049.3 | 1072.1 | 1145.6 | 1345.8 | 1747.5 | 3455.8 | 8745.2 | 10948.9 | 11251.8 |
| 67.5° | 960.6 | 956.8 | 966.9 | 970.7 | 1025.2 | 1188.7 | 1500.4 | 3163.0 | 8425.9 | 10981.9 | 11146.6 |
| 70° | 868.1 | 863.0 | 863.0 | 847.8 | 885.8 | 1004.9 | 1268.5 | 2856.4 | 7518.5 | 10681.6 | 11056.7 |
| 72.5° | 726.1 | 726.1 | 718.5 | 702.1 | 726.1 | 814.8 | 1056.9 | 2514.2 | 6091.6 | 10030.2 | 10495.3 |
| 75° | 452.4 | 456.2 | 472.7 | 523.4 | 558.9 | 614.6 | 837.6 | 2118.8 | 4976.4 | 8344.8 | 9202.7 |
| 77.5° | 231.9 | 237.0 | 243.3 | 244.6 | 253.4 | 264.9 | 399.2 | 1186.1 | 2529.4 | 4157.8 | 4435.3 |
| 80° | 58.3 | 59.6 | 143.2 | 159.7 | 171.1 | 176.1 | 147.0 | 395.4 | 655.2 | 613.3 | 599.4 |
| 82.5° | 39.3 | 41.8 | 82.4 | 101.4 | 93.8 | 71.0 | 81.1 | 120.4 | 97.6 | 133.1 | 149.5 |
| 85° | 21.5 | 21.5 | 36.7 | 39.3 | 40.6 | 45.6 | 40.6 | 39.3 | 44.4 | 84.9 | 98.8 |
| 87.5° | 10.1 | 10.1 | 15.2 | 19.0 | 19.0 | 22.8 | 19.0 | 20.3 | 20.3 | 39.3 | 45.6 |
| 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)