

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: PORTFOLIO

Report Number: P250122

Luminaire Tested: **LD8B100D010 ER8B100827 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250122
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B100D010 ER8B100827 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 2700 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10235.0 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

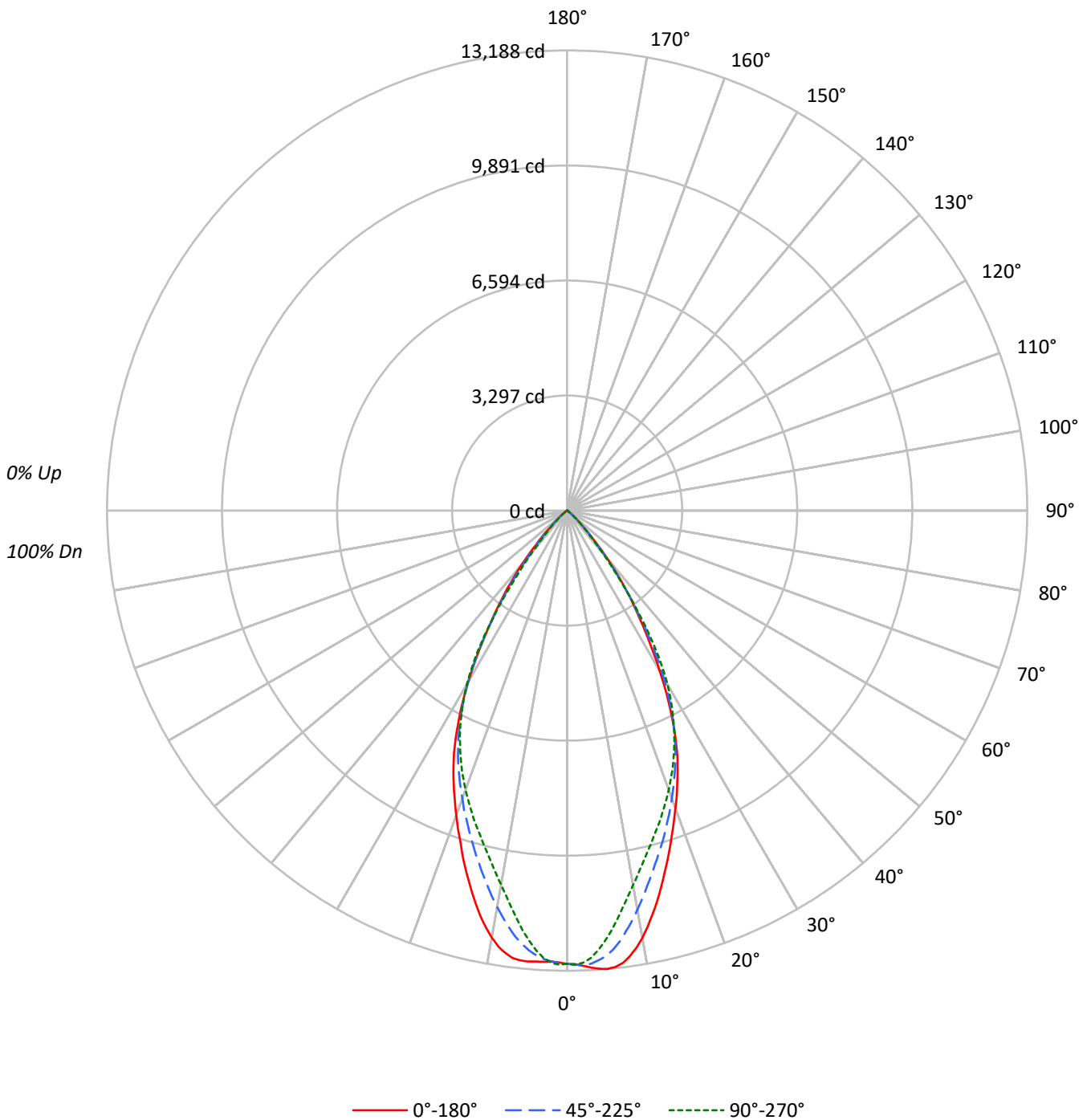
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

| | | | | | | | | | | | | | | | | | | | | | | | | | | |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|---|
| RF | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | 20 | | | | | |
| RC | 80 | | | | | 70 | | | | | 50 | | | | | 30 | | | | | 10 | | | | | 0 |
| RW | 70 | 50 | 30 | 10 | 70 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 50 | 30 | 10 | 0 | | |
| RCR | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 0 | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 | 100 | 100 | 100 | 100 | 100 | 100 | | |
| 1 | 114 | 111 | 108 | 106 | 111 | 109 | 107 | 105 | 105 | 103 | 101 | 101 | 100 | 98 | 98 | 97 | 96 | 94 | 94 | 94 | 94 | 94 | 94 | 94 | | |
| 2 | 108 | 103 | 99 | 96 | 106 | 102 | 98 | 95 | 98 | 95 | 93 | 95 | 93 | 91 | 93 | 91 | 89 | 87 | 87 | 87 | 87 | 87 | 87 | 87 | | |
| 3 | 103 | 97 | 92 | 88 | 101 | 95 | 91 | 87 | 93 | 89 | 86 | 90 | 87 | 84 | 88 | 85 | 83 | 81 | 81 | 81 | 81 | 81 | 81 | 81 | | |
| 4 | 98 | 90 | 85 | 81 | 96 | 89 | 84 | 80 | 87 | 83 | 79 | 85 | 81 | 78 | 83 | 80 | 77 | 76 | 76 | 76 | 76 | 76 | 76 | 76 | | |
| 5 | 93 | 85 | 79 | 75 | 91 | 84 | 78 | 74 | 82 | 77 | 74 | 80 | 76 | 73 | 79 | 75 | 72 | 71 | 71 | 71 | 71 | 71 | 71 | 71 | | |
| 6 | 88 | 80 | 74 | 69 | 87 | 79 | 73 | 69 | 77 | 72 | 69 | 76 | 72 | 68 | 75 | 71 | 68 | 66 | 66 | 66 | 66 | 66 | 66 | 66 | | |
| 7 | 84 | 75 | 69 | 65 | 83 | 74 | 69 | 65 | 73 | 68 | 64 | 72 | 67 | 64 | 71 | 67 | 64 | 62 | 62 | 62 | 62 | 62 | 62 | 62 | | |
| 8 | 80 | 71 | 65 | 61 | 79 | 70 | 64 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 67 | 63 | 60 | 58 | 58 | 58 | 58 | 58 | 58 | 58 | | |
| 9 | 76 | 67 | 61 | 57 | 75 | 66 | 61 | 57 | 65 | 60 | 57 | 64 | 60 | 56 | 64 | 59 | 56 | 55 | 55 | 55 | 55 | 55 | 55 | 55 | | |
| 10 | 73 | 63 | 57 | 54 | 72 | 63 | 57 | 54 | 62 | 57 | 53 | 61 | 56 | 53 | 60 | 56 | 53 | 52 | 52 | 52 | 52 | 52 | 52 | 52 | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 400536 | 400536 | 400536 |
| 5° | 408226 | 383493 | 401577 |
| 10° | 389211 | 341154 | 389114 |
| 15° | 343688 | 307697 | 349537 |
| 20° | 297842 | 279291 | 304887 |
| 25° | 251649 | 247352 | 260890 |
| 30° | 189139 | 204771 | 202068 |
| 35° | 126612 | 133863 | 137311 |
| 40° | 70936 | 60892 | 81357 |
| 45° | 28507 | 25067 | 33880 |
| 50° | 9844 | 9547 | 11667 |
| 55° | 2715 | 3226 | 3059 |
| 60° | 1560 | 1949 | 1752 |
| 65° | 1379 | 1153 | 919 |
| 70° | 0 | 857 | 568 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 568 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1179.2 | 11.5 |
| 10°-20° | 2852.0 | 27.9 |
| 20°-30° | 3342.6 | 32.7 |
| 30°-40° | 2199.3 | 21.5 |
| 40°-50° | 573.9 | 5.6 |
| 50°-60° | 70.6 | 0.7 |
| 60°-70° | 14.6 | 0.1 |
| 70°-80° | 2.7 | 0.0 |
| 80°-90° | 0.1 | 0.0 |
| 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°-30° | 7373.8 | 72.0 |
| 0°-40° | 9573.1 | 93.5 |
| 0°-60° | 10217.5 | 99.8 |
| 0°-90° | 10235.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 10235.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 12989 | 12989 | 12989 | 12989 | 12989 | |
| 5° | 13188 | 12812 | 12389 | 12645 | 12973 | ### |
| 15° | 10766 | 10156 | 9638 | 10156 | 10949 | 3001 |
| 25° | 7396 | 7324 | 7270 | 7393 | 7668 | 3334 |
| 35° | 3363 | 3439 | 3556 | 3591 | 3648 | 2106 |
| 45° | 654 | 616 | 575 | 666 | 777 | 586 |
| 55° | 50 | 54 | 60 | 60 | 57 | 67 |
| 65° | 19 | 16 | 16 | 13 | 13 | 13 |
| 75° | 0 | 3 | 0 | 0 | 0 | 2 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P250122

CATALOG NUMBER: LD8B100D010 ER8B100827 8LBM0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 12989.1 | 12989.1 | 12989.1 | 12989.1 | 12989.1 | 12989.1 | 12989.1 | 12989.1 | 12989.1 |
| 1° | 12998.6 | 13017.6 | 13023.8 | 13042.8 | 13014.4 | 12995.5 | 12970.2 | 12951.2 | 12954.4 |
| 2° | 13055.4 | 13064.9 | 13030.2 | 13017.6 | 12967.0 | 12951.2 | 12932.3 | 12929.1 | 12932.3 |
| 3° | 13115.5 | 13096.5 | 13004.9 | 12919.7 | 12843.9 | 12834.4 | 12869.1 | 12919.7 | 12948.0 |
| 4° | 13162.8 | 13112.3 | 12919.7 | 12761.7 | 12641.7 | 12632.3 | 12771.2 | 12900.7 | 12954.4 |
| 5° | 13188.1 | 13096.5 | 12812.3 | 12547.0 | 12389.1 | 12449.1 | 12644.9 | 12875.4 | 12973.3 |
| 6° | 13153.3 | 13017.6 | 12648.0 | 12294.4 | 12114.3 | 12193.3 | 12480.7 | 12815.4 | 12960.7 |
| 7° | 13064.9 | 12891.2 | 12436.5 | 12019.6 | 11798.5 | 11921.7 | 12288.0 | 12714.3 | 12913.3 |
| 8° | 12900.7 | 12692.2 | 12168.0 | 11700.6 | 11482.7 | 11621.6 | 12051.2 | 12569.1 | 12799.7 |
| 9° | 12685.9 | 12455.4 | 11902.8 | 11410.1 | 11176.4 | 11340.6 | 11804.8 | 12376.4 | 12641.7 |
| 10° | 12430.1 | 12183.8 | 11609.0 | 11106.9 | 10895.3 | 11050.1 | 11539.6 | 12152.2 | 12427.0 |
| 11° | 12130.1 | 11893.2 | 11315.3 | 10822.7 | 10620.6 | 10772.2 | 11274.3 | 11883.8 | 12180.6 |
| 12° | 11804.8 | 11586.9 | 11015.4 | 10547.9 | 10358.5 | 10503.7 | 10990.1 | 11605.9 | 11899.6 |
| 13° | 11479.5 | 11261.6 | 10724.8 | 10282.7 | 10108.9 | 10247.9 | 10712.1 | 11302.7 | 11596.4 |
| 14° | 11129.0 | 10930.0 | 10434.3 | 10030.0 | 9872.1 | 10004.7 | 10427.9 | 10996.3 | 11274.3 |
| 15° | 10765.8 | 10607.9 | 10156.3 | 9786.8 | 9638.4 | 9764.7 | 10156.3 | 10680.5 | 10949.0 |
| 16° | 10424.8 | 10279.5 | 9887.9 | 9546.8 | 9423.7 | 9524.7 | 9881.6 | 10364.8 | 10620.6 |
| 17° | 10077.3 | 9944.7 | 9619.4 | 9310.0 | 9199.5 | 9297.4 | 9600.5 | 10045.8 | 10276.3 |
| 18° | 9730.0 | 9619.4 | 9325.8 | 9060.5 | 8962.6 | 9051.0 | 9322.6 | 9723.7 | 9932.1 |
| 19° | 9407.9 | 9306.8 | 9057.3 | 8833.1 | 8744.7 | 8823.6 | 9079.4 | 9414.2 | 9622.6 |
| 20° | 9076.3 | 8994.1 | 8776.2 | 8593.1 | 8511.0 | 8583.6 | 8782.6 | 9107.9 | 9291.0 |
| 21° | 8757.3 | 8684.7 | 8495.2 | 8340.4 | 8274.1 | 8334.2 | 8517.3 | 8811.0 | 8972.0 |
| 22° | 8425.7 | 8384.7 | 8214.1 | 8084.6 | 8040.4 | 8078.3 | 8245.7 | 8498.4 | 8650.0 |
| 23° | 8100.4 | 8062.5 | 7933.0 | 7825.7 | 7787.8 | 7825.7 | 7974.1 | 8201.5 | 8337.3 |
| 24° | 7772.0 | 7731.0 | 7636.2 | 7566.7 | 7535.2 | 7566.7 | 7693.0 | 7885.7 | 8015.2 |
| 25° | 7396.2 | 7389.9 | 7323.6 | 7285.6 | 7269.9 | 7304.6 | 7393.0 | 7560.4 | 7667.8 |
| 26° | 7036.1 | 7017.2 | 6998.3 | 6991.9 | 6995.1 | 7014.0 | 7086.7 | 7213.0 | 7298.3 |
| 27° | 6594.1 | 6622.5 | 6650.8 | 6688.8 | 6701.4 | 6717.2 | 6751.9 | 6843.5 | 6906.7 |
| 28° | 6170.8 | 6224.5 | 6294.0 | 6369.8 | 6404.6 | 6404.6 | 6407.7 | 6458.2 | 6511.9 |
| 29° | 5750.9 | 5807.7 | 5918.2 | 6031.9 | 6079.3 | 6072.9 | 6047.7 | 6069.8 | 6101.4 |
| 30° | 5311.9 | 5384.5 | 5532.9 | 5681.4 | 5750.9 | 5725.6 | 5678.2 | 5656.1 | 5675.0 |
| 31° | 4882.4 | 4955.0 | 5119.2 | 5280.3 | 5371.8 | 5343.5 | 5261.3 | 5245.6 | 5255.0 |
| 32° | 4471.8 | 4544.5 | 4696.0 | 4866.5 | 4970.8 | 4932.9 | 4847.6 | 4822.3 | 4825.5 |
| 33° | 4073.9 | 4130.8 | 4269.7 | 4427.6 | 4512.9 | 4503.4 | 4433.9 | 4402.4 | 4405.5 |
| 34° | 3698.1 | 3745.5 | 3849.6 | 3969.7 | 4051.8 | 4048.6 | 3998.1 | 4001.3 | 4010.8 |
| 35° | 3363.4 | 3388.6 | 3439.1 | 3505.5 | 3556.0 | 3584.4 | 3590.7 | 3616.0 | 3647.6 |
| 37.5° | 2542.3 | 2551.7 | 2491.7 | 2425.4 | 2412.8 | 2494.9 | 2637.0 | 2760.2 | 2807.5 |
| 40° | 1762.2 | 1740.1 | 1664.3 | 1547.5 | 1512.7 | 1604.3 | 1784.3 | 1958.0 | 2021.1 |
| 42.5° | 1095.9 | 1086.4 | 1039.0 | 950.6 | 919.0 | 972.7 | 1108.5 | 1241.2 | 1304.3 |
| 45° | 653.7 | 641.1 | 615.8 | 581.1 | 574.8 | 596.9 | 666.3 | 742.1 | 776.9 |
| 47.5° | 375.8 | 372.7 | 356.8 | 344.2 | 341.1 | 356.8 | 388.4 | 432.6 | 442.2 |
| 50° | 205.2 | 202.1 | 199.0 | 199.0 | 199.0 | 208.4 | 224.2 | 236.8 | 243.2 |
| 52.5° | 101.1 | 104.2 | 101.1 | 104.2 | 107.4 | 113.7 | 110.5 | 123.2 | 123.2 |
| 55° | 50.5 | 47.4 | 53.7 | 60.0 | 60.0 | 60.0 | 60.0 | 60.0 | 56.9 |
| 57.5° | 37.9 | 41.0 | 34.8 | 37.9 | 34.8 | 34.8 | 31.6 | 34.8 | 37.9 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|------|-------|------|-------|------|--------|------|--------|------|
| 60° | 25.3 | 22.1 | 25.3 | 28.4 | 31.6 | 28.4 | 22.1 | 25.3 | 28.4 |
| 62.5° | 12.6 | 12.6 | 12.6 | 18.9 | 28.4 | 22.1 | 18.9 | 15.8 | 15.8 |
| 65° | 18.9 | 12.6 | 15.8 | 18.9 | 15.8 | 15.8 | 12.6 | 15.8 | 12.6 |
| 67.5° | 9.5 | 15.8 | 9.5 | 6.3 | 9.5 | 12.6 | 9.5 | 6.3 | 6.3 |
| 70° | 0.0 | 3.2 | 3.2 | 9.5 | 9.5 | 9.5 | 9.5 | 6.3 | 6.3 |
| 72.5° | 3.2 | 3.2 | 3.2 | 6.3 | 3.2 | 6.3 | 3.2 | 3.2 | 6.3 |
| 75° | 0.0 | 0.0 | 3.2 | 3.2 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 |
| 77.5° | 3.2 | 0.0 | 3.2 | 3.2 | 0.0 | 0.0 | 0.0 | 3.2 | 0.0 |
| 80° | 0.0 | 0.0 | 3.2 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.2 |
| 82.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 85° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 87.5° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)