

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: P250150

Luminaire Tested: **LD8B100D010 ER8B100850 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250150
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 ER8B100850 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT
80 CRI 5000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11051.0 lumens
Efficiency: N/A
Efficacy: 104.0 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

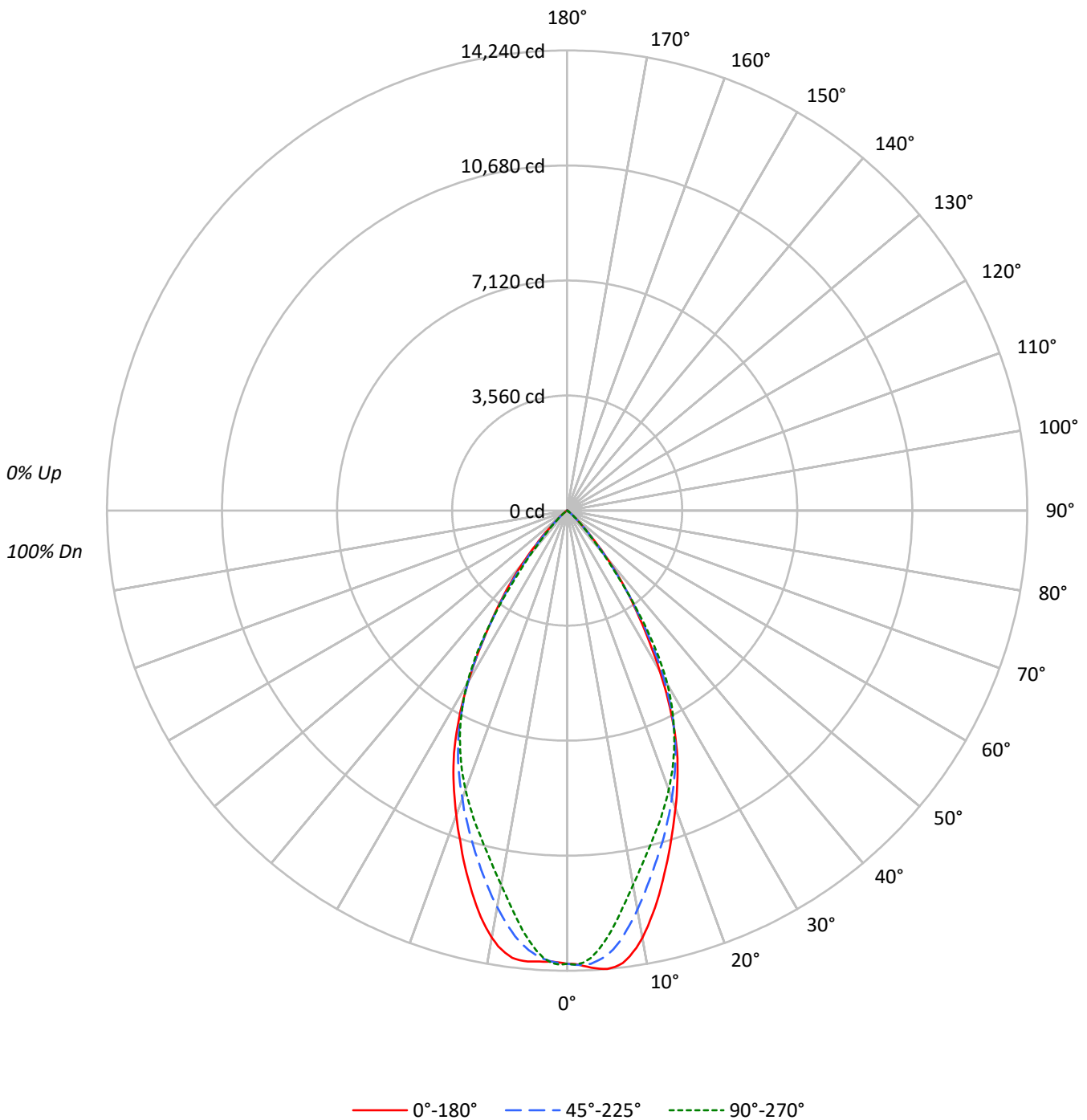
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





TEST NUMBER: P250150

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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° | 432470 | 432470 | 432470 |
| 5° | 440771 | 414067 | 433593 |
| 10° | 420242 | 368355 | 420135 |
| 15° | 371092 | 332231 | 377404 |
| 20° | 321587 | 301556 | 329197 |
| 25° | 271713 | 267072 | 281689 |
| 30° | 204219 | 221093 | 218180 |
| 35° | 136705 | 144535 | 148258 |
| 40° | 76591 | 65747 | 87846 |
| 45° | 30779 | 27064 | 36579 |
| 50° | 10631 | 10305 | 12598 |
| 55° | 2935 | 3484 | 3301 |
| 60° | 1684 | 2103 | 1893 |
| 65° | 1488 | 1240 | 992 |
| 70° | 0 | 929 | 613 |
| 75° | 0 | 0 | 0 |
| 80° | 0 | 0 | 604 |
| 85° | 0 | 0 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 1273.2 | 11.5 |
| 10°-20° | 3079.3 | 27.9 |
| 20°-30° | 3609.1 | 32.7 |
| 30°-40° | 2374.6 | 21.5 |
| 40°-50° | 619.7 | 5.6 |
| 50°-60° | 76.2 | 0.7 |
| 60°-70° | 15.8 | 0.1 |
| 70°-80° | 2.9 | 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° | 7961.7 | 72.0 |
| 0°-40° | 10336.3 | 93.5 |
| 0°-60° | 11032.1 | 99.8 |
| 0°-90° | 11051.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 11051.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0° | 14025 | 14025 | 14025 | 14025 | 14025 | |
| 5° | 14240 | 13834 | 13377 | 13653 | 14008 | ### |
| 15° | 11624 | 10966 | 10407 | 10966 | 11822 | 3240 |
| 25° | 7986 | 7908 | 7850 | 7982 | 8279 | 3600 |
| 35° | 3632 | 3713 | 3840 | 3877 | 3938 | 2274 |
| 45° | 706 | 665 | 621 | 719 | 839 | 633 |
| 55° | 55 | 58 | 65 | 65 | 61 | 72 |
| 65° | 20 | 17 | 17 | 14 | 14 | 14 |
| 75° | 0 | 3 | 0 | 0 | 0 | 2 |
| 85° | 0 | 0 | 0 | 0 | 0 | 0 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P250150

CATALOG NUMBER: LD8B100D010 ER8B100850 8LBM0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 14024.7 | 14024.7 | 14024.7 | 14024.7 | 14024.7 | 14024.7 | 14024.7 | 14024.7 | 14024.7 |
| 1° | 14034.9 | 14055.4 | 14062.2 | 14082.7 | 14052.0 | 14031.5 | 14004.3 | 13983.7 | 13987.2 |
| 2° | 14096.3 | 14106.6 | 14069.0 | 14055.4 | 14000.8 | 13983.7 | 13963.3 | 13959.9 | 13963.3 |
| 3° | 14161.1 | 14140.6 | 14041.7 | 13949.7 | 13867.8 | 13857.6 | 13895.1 | 13949.7 | 13980.3 |
| 4° | 14212.3 | 14157.7 | 13949.7 | 13779.2 | 13649.6 | 13639.4 | 13789.4 | 13929.2 | 13987.2 |
| 5° | 14239.5 | 14140.6 | 13833.7 | 13547.3 | 13376.8 | 13441.6 | 13653.0 | 13901.9 | 14007.6 |
| 6° | 14202.0 | 14055.4 | 13656.4 | 13274.6 | 13080.2 | 13165.4 | 13475.7 | 13837.1 | 13994.0 |
| 7° | 14106.6 | 13919.0 | 13428.0 | 12977.9 | 12739.2 | 12872.2 | 13267.7 | 13728.0 | 13942.9 |
| 8° | 13929.2 | 13704.2 | 13138.1 | 12633.5 | 12398.2 | 12548.2 | 13012.0 | 13571.2 | 13820.1 |
| 9° | 13697.3 | 13448.4 | 12851.7 | 12319.7 | 12067.4 | 12244.7 | 12746.0 | 13363.2 | 13649.6 |
| 10° | 13421.1 | 13155.2 | 12534.6 | 11992.4 | 11764.0 | 11931.0 | 12459.6 | 13121.0 | 13417.7 |
| 11° | 13097.2 | 12841.5 | 12217.5 | 11685.6 | 11467.3 | 11631.0 | 12173.2 | 12831.3 | 13151.7 |
| 12° | 12746.0 | 12510.7 | 11893.6 | 11388.9 | 11184.3 | 11341.2 | 11866.3 | 12531.2 | 12848.3 |
| 13° | 12394.8 | 12159.5 | 11579.9 | 11102.5 | 10914.9 | 11064.9 | 11566.2 | 12203.9 | 12520.9 |
| 14° | 12016.3 | 11801.5 | 11266.2 | 10829.6 | 10659.2 | 10802.3 | 11259.3 | 11873.0 | 12173.2 |
| 15° | 11624.2 | 11453.6 | 10966.0 | 10567.1 | 10406.9 | 10543.2 | 10966.0 | 11532.1 | 11821.9 |
| 16° | 11255.9 | 11099.0 | 10676.2 | 10307.9 | 10175.0 | 10284.1 | 10669.4 | 11191.1 | 11467.3 |
| 17° | 10880.8 | 10737.6 | 10386.4 | 10052.2 | 9932.9 | 10038.6 | 10365.9 | 10846.7 | 11095.6 |
| 18° | 10505.7 | 10386.4 | 10069.3 | 9782.9 | 9677.2 | 9772.6 | 10065.9 | 10498.9 | 10723.9 |
| 19° | 10157.9 | 10048.8 | 9779.5 | 9537.3 | 9441.9 | 9527.1 | 9803.3 | 10164.8 | 10389.8 |
| 20° | 9799.9 | 9711.2 | 9475.9 | 9278.2 | 9189.5 | 9267.9 | 9482.8 | 9834.0 | 10031.8 |
| 21° | 9455.5 | 9377.1 | 9172.5 | 9005.4 | 8933.8 | 8998.6 | 9196.3 | 9513.5 | 9687.3 |
| 22° | 9097.5 | 9053.2 | 8869.0 | 8729.2 | 8681.5 | 8722.4 | 8903.1 | 9175.9 | 9339.6 |
| 23° | 8746.2 | 8705.3 | 8565.5 | 8449.6 | 8408.7 | 8449.6 | 8609.9 | 8855.4 | 9002.0 |
| 24° | 8391.6 | 8347.3 | 8245.0 | 8169.9 | 8135.9 | 8169.9 | 8306.4 | 8514.4 | 8654.2 |
| 25° | 7985.9 | 7979.1 | 7907.5 | 7866.5 | 7849.5 | 7886.9 | 7982.5 | 8163.2 | 8279.1 |
| 26° | 7597.1 | 7576.7 | 7556.2 | 7549.4 | 7552.8 | 7573.2 | 7651.7 | 7788.1 | 7880.2 |
| 27° | 7119.8 | 7150.5 | 7181.1 | 7222.1 | 7235.7 | 7252.8 | 7290.2 | 7389.1 | 7457.3 |
| 28° | 6662.8 | 6720.8 | 6795.8 | 6877.6 | 6915.2 | 6915.2 | 6918.5 | 6973.1 | 7031.1 |
| 29° | 6209.3 | 6270.7 | 6390.1 | 6512.8 | 6563.9 | 6557.1 | 6529.8 | 6553.7 | 6587.8 |
| 30° | 5735.4 | 5813.8 | 5974.1 | 6134.3 | 6209.3 | 6182.1 | 6130.9 | 6107.1 | 6127.5 |
| 31° | 5271.6 | 5350.1 | 5527.4 | 5701.2 | 5800.1 | 5769.5 | 5680.8 | 5663.8 | 5674.0 |
| 32° | 4828.4 | 4906.8 | 5070.4 | 5254.5 | 5367.1 | 5326.2 | 5234.1 | 5206.8 | 5210.2 |
| 33° | 4398.7 | 4460.1 | 4610.1 | 4780.6 | 4872.7 | 4862.4 | 4787.4 | 4753.4 | 4756.7 |
| 34° | 3992.9 | 4044.1 | 4156.6 | 4286.2 | 4374.8 | 4371.4 | 4316.8 | 4320.3 | 4330.5 |
| 35° | 3631.5 | 3658.8 | 3713.3 | 3784.9 | 3839.5 | 3870.1 | 3877.0 | 3904.3 | 3938.4 |
| 37.5° | 2745.0 | 2755.1 | 2690.4 | 2618.7 | 2605.1 | 2693.8 | 2847.2 | 2980.2 | 3031.4 |
| 40° | 1902.7 | 1878.8 | 1797.0 | 1670.8 | 1633.3 | 1732.2 | 1926.6 | 2114.1 | 2182.3 |
| 42.5° | 1183.2 | 1173.0 | 1121.8 | 1026.4 | 992.3 | 1050.3 | 1196.8 | 1340.1 | 1408.3 |
| 45° | 705.8 | 692.2 | 664.9 | 627.4 | 620.6 | 644.4 | 719.4 | 801.3 | 838.8 |
| 47.5° | 405.7 | 402.4 | 385.3 | 371.7 | 368.3 | 385.3 | 419.4 | 467.1 | 477.4 |
| 50° | 221.6 | 218.3 | 214.8 | 214.8 | 214.8 | 225.0 | 242.1 | 255.7 | 262.6 |
| 52.5° | 109.1 | 112.6 | 109.1 | 112.6 | 116.0 | 122.7 | 119.3 | 133.0 | 133.0 |
| 55° | 54.6 | 51.1 | 58.0 | 64.8 | 64.8 | 64.8 | 64.8 | 64.8 | 61.4 |
| 57.5° | 40.9 | 44.3 | 37.5 | 40.9 | 37.5 | 37.5 | 34.1 | 37.5 | 40.9 |



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CATALOG NUMBER: LD8B100D010 ER8B100850 8LBM0WH

CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|------|-------|------|-------|------|--------|------|--------|------|
| 60° | 27.3 | 23.9 | 27.3 | 30.7 | 34.1 | 30.7 | 23.9 | 27.3 | 30.7 |
| 62.5° | 13.6 | 13.6 | 13.6 | 20.4 | 30.7 | 23.9 | 20.4 | 17.0 | 17.0 |
| 65° | 20.4 | 13.6 | 17.0 | 20.4 | 17.0 | 17.0 | 13.6 | 17.0 | 13.6 |
| 67.5° | 10.3 | 17.0 | 10.3 | 6.8 | 10.3 | 13.6 | 10.3 | 6.8 | 6.8 |
| 70° | 0.0 | 3.4 | 3.4 | 10.3 | 10.3 | 10.3 | 10.3 | 6.8 | 6.8 |
| 72.5° | 3.4 | 3.4 | 3.4 | 6.8 | 3.4 | 6.8 | 3.4 | 3.4 | 6.8 |
| 75° | 0.0 | 0.0 | 3.4 | 3.4 | 0.0 | 3.4 | 0.0 | 0.0 | 0.0 |
| 77.5° | 3.4 | 0.0 | 3.4 | 3.4 | 0.0 | 0.0 | 0.0 | 3.4 | 0.0 |
| 80° | 0.0 | 0.0 | 3.4 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 3.4 |
| 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)