

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: P250123

Luminaire Tested: **LD8B120D010 ER8B120827 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250123  
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: LD8B120D010 ER8B120827 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: 11603.0 lumens  
Efficiency: N/A  
Efficacy: 98.1 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

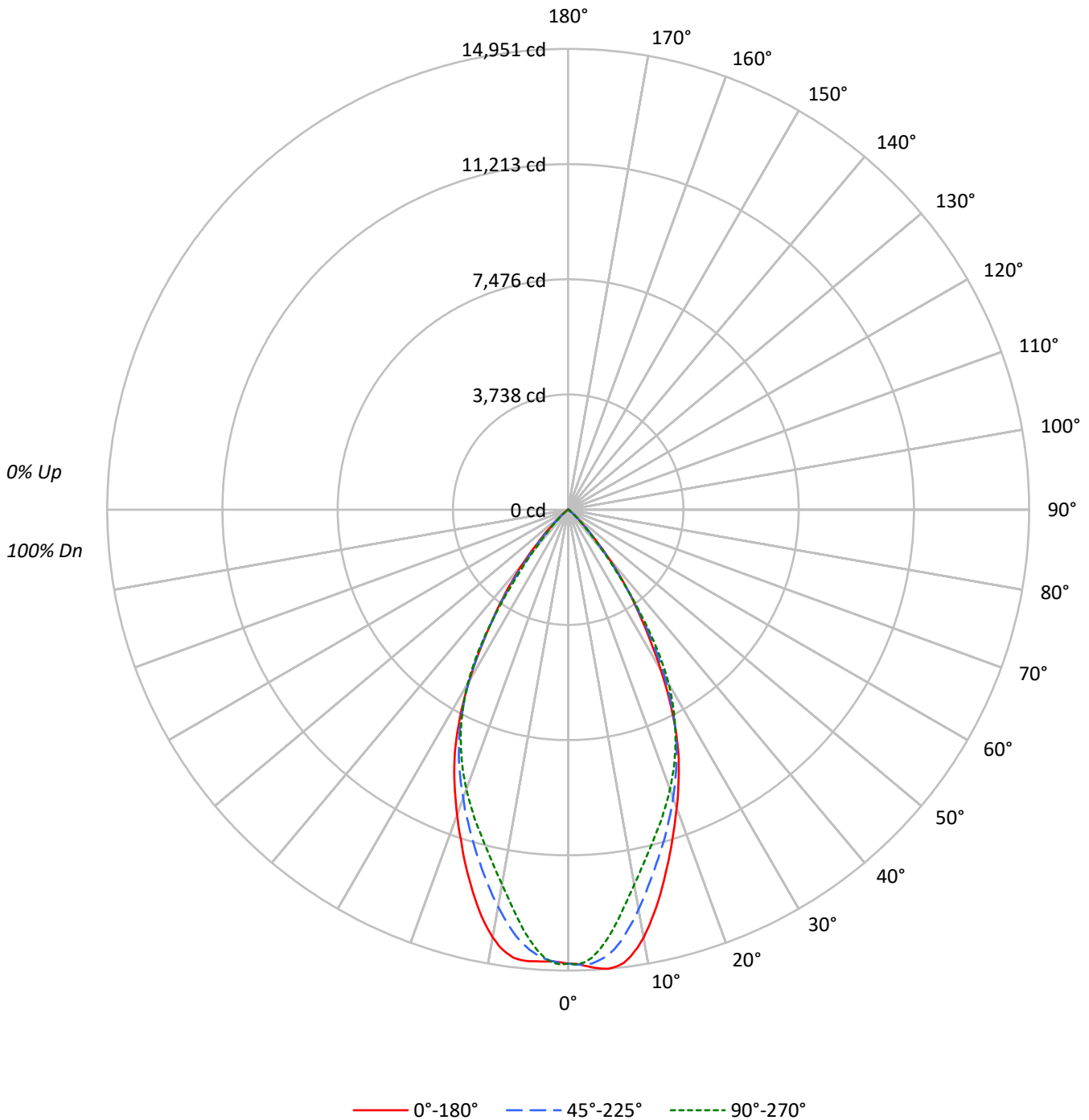
Input Watts (W): 118.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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

**AVERAGE LUMINANCE (cd/sqm):**

|     | 0°     | 90°    | 180°   |
|-----|--------|--------|--------|
| 0°  | 454071 | 454071 | 454071 |
| 5°  | 462789 | 434750 | 455251 |
| 10° | 441233 | 386753 | 441121 |
| 15° | 389627 | 348825 | 396255 |
| 20° | 337650 | 316619 | 345637 |
| 25° | 285285 | 280413 | 295758 |
| 30° | 214416 | 232138 | 229079 |
| 35° | 143534 | 151755 | 155662 |
| 40° | 80415  | 69031  | 92234  |
| 45° | 32319  | 28416  | 38407  |
| 50° | 11163  | 10823  | 13226  |
| 55° | 3081   | 3661   | 3468   |
| 60° | 1764   | 2208   | 1986   |
| 65° | 1569   | 1306   | 1043   |
| 70° | 0      | 974    | 649    |
| 75° | 0      | 0      | 0      |
| 80° | 0      | 0      | 639    |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1336.8  | 11.5      |
| 10°-20°   | 3233.2  | 27.9      |
| 20°-30°   | 3789.4  | 32.7      |
| 30°-40°   | 2493.2  | 21.5      |
| 40°-50°   | 650.6   | 5.6       |
| 50°-60°   | 80.0    | 0.7       |
| 60°-70°   | 16.6    | 0.1       |
| 70°-80°   | 3.1     | 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°    | 8359.3  | 72.0      |
| 0°-40°    | 10852.6 | 93.5      |
| 0°-60°    | 11583.2 | 99.8      |
| 0°-90°    | 11603.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 11603.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°   | 90°   | 135°  | 180°  | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 14725 | 14725 | 14725 | 14725 | 14725 |      |
| 5°  | 14951 | 14525 | 14045 | 14335 | 14707 | ###  |
| 15° | 12205 | 11514 | 10927 | 11514 | 12412 | 3402 |
| 25° | 8385  | 8302  | 8242  | 8381  | 8693  | 3780 |
| 35° | 3813  | 3899  | 4031  | 4071  | 4135  | 2387 |
| 45° | 741   | 698   | 652   | 755   | 881   | 664  |
| 55° | 57    | 61    | 68    | 68    | 64    | 76   |
| 65° | 22    | 18    | 18    | 14    | 14    | 15   |
| 75° | 0     | 4     | 0     | 0     | 0     | 2    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



TEST NUMBER: P250123

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     | 112.5°  | 135°    | 157.5°  | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 14725.2 | 14725.2 | 14725.2 | 14725.2 | 14725.2 | 14725.2 | 14725.2 | 14725.2 | 14725.2 |
| 1°    | 14735.9 | 14757.5 | 14764.6 | 14786.1 | 14753.9 | 14732.4 | 14703.8 | 14682.2 | 14685.8 |
| 2°    | 14800.4 | 14811.2 | 14771.8 | 14757.5 | 14700.2 | 14682.2 | 14660.8 | 14657.2 | 14660.8 |
| 3°    | 14868.5 | 14846.9 | 14743.1 | 14646.5 | 14560.6 | 14549.8 | 14589.2 | 14646.5 | 14678.6 |
| 4°    | 14922.2 | 14864.9 | 14646.5 | 14467.4 | 14331.4 | 14320.7 | 14478.2 | 14624.9 | 14685.8 |
| 5°    | 14950.8 | 14846.9 | 14524.7 | 14224.0 | 14045.0 | 14113.0 | 14335.0 | 14596.3 | 14707.3 |
| 6°    | 14911.4 | 14757.5 | 14338.6 | 13937.6 | 13733.5 | 13823.0 | 14148.8 | 14528.3 | 14693.0 |
| 7°    | 14811.2 | 14614.3 | 14098.7 | 13626.1 | 13375.5 | 13515.1 | 13930.4 | 14413.7 | 14639.3 |
| 8°    | 14624.9 | 14388.7 | 13794.4 | 13264.5 | 13017.5 | 13175.0 | 13661.9 | 14249.0 | 14510.4 |
| 9°    | 14381.5 | 14120.2 | 13493.7 | 12935.1 | 12670.2 | 12856.4 | 13382.7 | 14030.7 | 14331.4 |
| 10°   | 14091.5 | 13812.3 | 13160.7 | 12591.5 | 12351.6 | 12527.0 | 13081.9 | 13776.4 | 14087.9 |
| 11°   | 13751.4 | 13482.9 | 12827.7 | 12269.3 | 12040.1 | 12212.0 | 12781.2 | 13472.2 | 13808.7 |
| 12°   | 13382.7 | 13135.6 | 12487.7 | 11957.8 | 11743.0 | 11907.7 | 12459.0 | 13157.1 | 13490.1 |
| 13°   | 13013.9 | 12766.8 | 12158.3 | 11657.0 | 11460.1 | 11617.6 | 12143.9 | 12813.4 | 13146.3 |
| 14°   | 12616.5 | 12390.9 | 11828.9 | 11370.6 | 11191.6 | 11341.9 | 11821.7 | 12466.1 | 12781.2 |
| 15°   | 12204.8 | 12025.7 | 11513.8 | 11094.9 | 10926.7 | 11069.8 | 11513.8 | 12108.1 | 12412.4 |
| 16°   | 11818.1 | 11653.4 | 11209.5 | 10822.8 | 10683.3 | 10797.8 | 11202.4 | 11750.1 | 12040.1 |
| 17°   | 11424.3 | 11273.9 | 10905.2 | 10554.3 | 10429.0 | 10540.0 | 10883.7 | 11388.5 | 11649.8 |
| 18°   | 11030.5 | 10905.2 | 10572.3 | 10271.5 | 10160.5 | 10260.8 | 10568.7 | 11023.3 | 11259.6 |
| 19°   | 10665.3 | 10550.7 | 10267.9 | 10013.7 | 9913.5  | 10003.0 | 10293.0 | 10672.5 | 10908.7 |
| 20°   | 10289.4 | 10196.3 | 9949.3  | 9741.6  | 9648.5  | 9730.9  | 9956.4  | 10325.2 | 10532.8 |
| 21°   | 9927.8  | 9845.4  | 9630.6  | 9455.2  | 9380.0  | 9448.1  | 9655.7  | 9988.7  | 10171.2 |
| 22°   | 9551.9  | 9505.4  | 9312.0  | 9165.2  | 9115.1  | 9158.0  | 9347.8  | 9634.2  | 9806.1  |
| 23°   | 9183.1  | 9140.2  | 8993.4  | 8871.7  | 8828.7  | 8871.7  | 9040.0  | 9297.7  | 9451.7  |
| 24°   | 8810.8  | 8764.3  | 8656.9  | 8578.0  | 8542.3  | 8578.0  | 8721.3  | 8939.7  | 9086.5  |
| 25°   | 8384.8  | 8377.6  | 8302.4  | 8259.4  | 8241.6  | 8280.9  | 8381.2  | 8570.9  | 8692.6  |
| 26°   | 7976.6  | 7955.1  | 7933.6  | 7926.5  | 7930.1  | 7951.5  | 8033.9  | 8177.1  | 8273.8  |
| 27°   | 7475.4  | 7507.6  | 7539.8  | 7582.8  | 7597.1  | 7615.0  | 7654.4  | 7758.2  | 7829.8  |
| 28°   | 6995.6  | 7056.5  | 7135.3  | 7221.2  | 7260.6  | 7260.6  | 7264.1  | 7321.4  | 7382.3  |
| 29°   | 6519.5  | 6583.9  | 6709.3  | 6838.1  | 6891.8  | 6884.6  | 6856.0  | 6881.0  | 6916.9  |
| 30°   | 6021.8  | 6104.2  | 6272.5  | 6440.8  | 6519.5  | 6490.9  | 6437.2  | 6412.1  | 6433.6  |
| 31°   | 5535.0  | 5617.3  | 5803.5  | 5986.0  | 6089.8  | 6057.7  | 5964.6  | 5946.7  | 5957.4  |
| 32°   | 5069.5  | 5151.9  | 5323.7  | 5517.0  | 5635.2  | 5592.3  | 5495.5  | 5466.9  | 5470.5  |
| 33°   | 4618.4  | 4682.9  | 4840.4  | 5019.4  | 5116.1  | 5105.3  | 5026.5  | 4990.8  | 4994.3  |
| 34°   | 4192.4  | 4246.1  | 4364.2  | 4500.3  | 4593.3  | 4589.8  | 4532.5  | 4536.1  | 4546.8  |
| 35°   | 3812.9  | 3841.6  | 3898.8  | 3974.0  | 4031.3  | 4063.4  | 4070.6  | 4099.3  | 4135.1  |
| 37.5° | 2882.1  | 2892.8  | 2824.8  | 2749.5  | 2735.2  | 2828.4  | 2989.5  | 3129.1  | 3182.8  |
| 40°   | 1997.7  | 1972.7  | 1886.7  | 1754.3  | 1714.9  | 1818.8  | 2022.8  | 2219.7  | 2291.3  |
| 42.5° | 1242.4  | 1231.6  | 1177.9  | 1077.7  | 1041.8  | 1102.7  | 1256.6  | 1407.0  | 1478.6  |
| 45°   | 741.1   | 726.7   | 698.1   | 658.8   | 651.6   | 676.6   | 755.4   | 841.3   | 880.7   |
| 47.5° | 426.0   | 422.5   | 404.5   | 390.3   | 386.7   | 404.5   | 440.4   | 490.5   | 501.2   |
| 50°   | 232.7   | 229.2   | 225.6   | 225.6   | 225.6   | 236.3   | 254.2   | 268.5   | 275.7   |
| 52.5° | 114.6   | 118.2   | 114.6   | 118.2   | 121.8   | 128.9   | 125.3   | 139.6   | 139.6   |
| 55°   | 57.3    | 53.7    | 60.9    | 68.1    | 68.1    | 68.1    | 68.1    | 68.1    | 64.5    |
| 57.5° | 42.9    | 46.5    | 39.4    | 42.9    | 39.4    | 39.4    | 35.8    | 39.4    | 42.9    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|-------|------|-------|------|--------|------|--------|------|
| 60°   | 28.6 | 25.1  | 28.6 | 32.2  | 35.8 | 32.2   | 25.1 | 28.6   | 32.2 |
| 62.5° | 14.3 | 14.3  | 14.3 | 21.5  | 32.2 | 25.1   | 21.5 | 17.9   | 17.9 |
| 65°   | 21.5 | 14.3  | 17.9 | 21.5  | 17.9 | 17.9   | 14.3 | 17.9   | 14.3 |
| 67.5° | 10.8 | 17.9  | 10.8 | 7.2   | 10.8 | 14.3   | 10.8 | 7.2    | 7.2  |
| 70°   | 0.0  | 3.6   | 3.6  | 10.8  | 10.8 | 10.8   | 10.8 | 7.2    | 7.2  |
| 72.5° | 3.6  | 3.6   | 3.6  | 7.2   | 3.6  | 7.2    | 3.6  | 3.6    | 7.2  |
| 75°   | 0.0  | 0.0   | 3.6  | 3.6   | 0.0  | 3.6    | 0.0  | 0.0    | 0.0  |
| 77.5° | 3.6  | 0.0   | 3.6  | 3.6   | 0.0  | 0.0    | 0.0  | 3.6    | 0.0  |
| 80°   | 0.0  | 0.0   | 3.6  | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 3.6  |
| 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)