

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: P250185

Luminaire Tested: **LD8B100D010 ER8B100950 8LBM0WH**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P250185  
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 ER8B100950 8LBM0WH  
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED  
DOWNLIGHT  
90 CRI 5000 CCT WITH WHEAT TRIM  
Light Source: -  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10061.0 lumens  
Efficiency: N/A  
Efficacy: 94.6 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

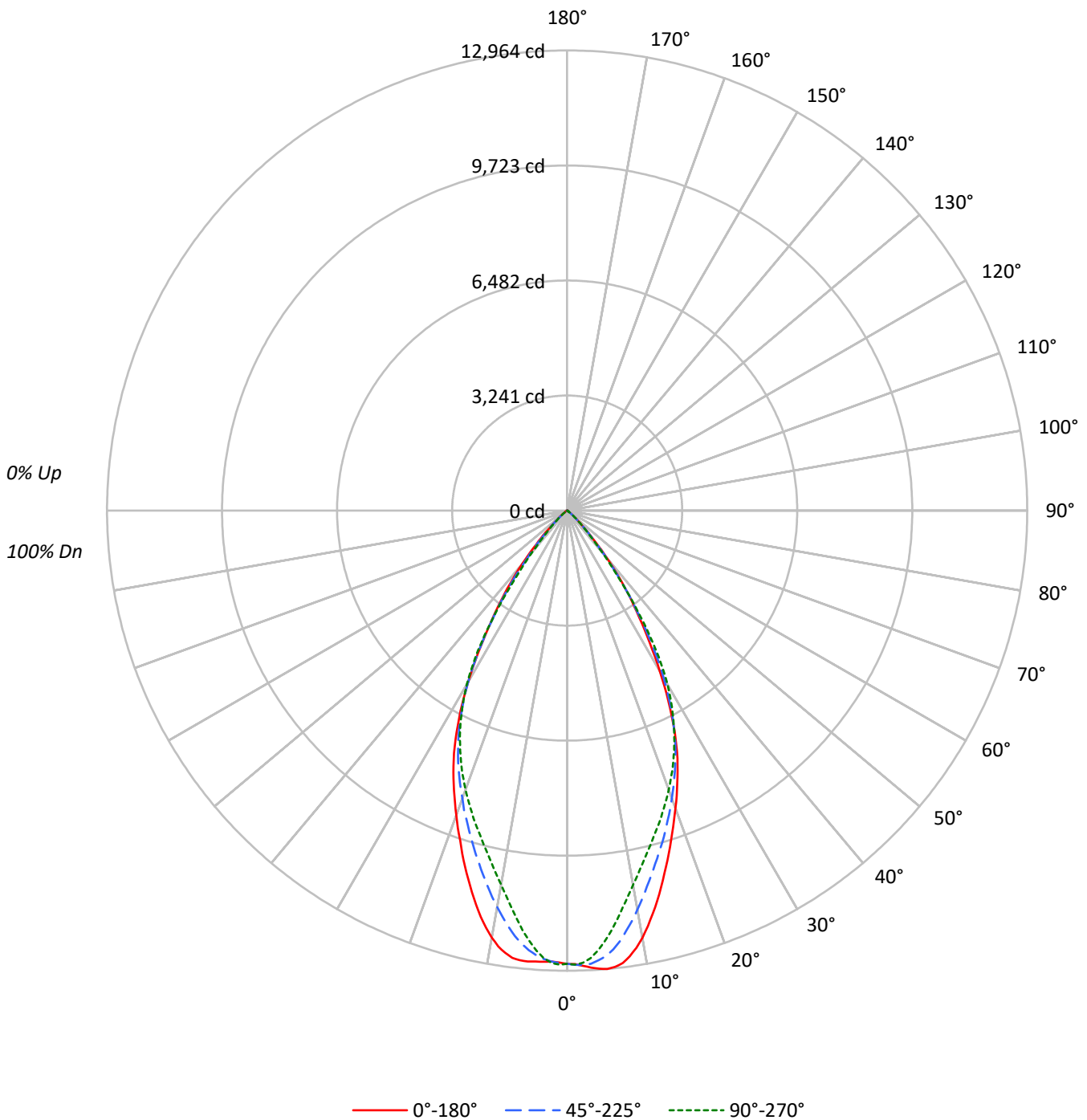
Input Watts (W): 106.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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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°  | 393727 | 393727 | 393727 |
| 5°  | 401286 | 376975 | 394748 |
| 10° | 382595 | 335355 | 382498 |
| 15° | 337846 | 302468 | 343593 |
| 20° | 292778 | 274543 | 299706 |
| 25° | 247372 | 243146 | 256453 |
| 30° | 185924 | 201288 | 198636 |
| 35° | 124459 | 131589 | 134977 |
| 40° | 69728  | 59858  | 79977  |
| 45° | 28023  | 24639  | 33304  |
| 50° | 9676   | 9383   | 11465  |
| 55° | 2672   | 3172   | 3005   |
| 60° | 1529   | 1918   | 1727   |
| 65° | 1357   | 1131   | 905    |
| 70° | 0      | 838    | 559    |
| 75° | 0      | 0      | 0      |
| 80° | 0      | 0      | 550    |
| 85° | 0      | 0      | 0      |



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**ZONAL LUMENS:**

| Zone      | Lumens  | % Fixture |
|-----------|---------|-----------|
| 0°-10°    | 1159.1  | 11.5      |
| 10°-20°   | 2803.5  | 27.9      |
| 20°-30°   | 3285.8  | 32.7      |
| 30°-40°   | 2161.9  | 21.5      |
| 40°-50°   | 564.1   | 5.6       |
| 50°-60°   | 69.4    | 0.7       |
| 60°-70°   | 14.4    | 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°    | 7248.4  | 72.0      |
| 0°-40°    | 9410.3  | 93.5      |
| 0°-60°    | 10043.8 | 99.8      |
| 0°-90°    | 10061.0 | 100.0     |
| 90°-120°  | 0.0     | 0.0       |
| 90°-150°  | 0.0     | 0.0       |
| 90°-180°  | 0.0     | 0.0       |
| 0°-180°   | 10061.0 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°    | 45°   | 90°   | 135°  | 180°  | Flux |
|-----|-------|-------|-------|-------|-------|------|
| 0°  | 12768 | 12768 | 12768 | 12768 | 12768 |      |
| 5°  | 12964 | 12594 | 12178 | 12430 | 12753 | ###  |
| 15° | 10583 | 9984  | 9475  | 9984  | 10763 | 2950 |
| 25° | 7270  | 7199  | 7146  | 7267  | 7537  | 3278 |
| 35° | 3306  | 3381  | 3496  | 3530  | 3586  | 2070 |
| 45° | 643   | 605   | 565   | 655   | 764   | 576  |
| 55° | 50    | 53    | 59    | 59    | 56    | 66   |
| 65° | 19    | 16    | 16    | 12    | 12    | 13   |
| 75° | 0     | 3     | 0     | 0     | 0     | 2    |
| 85° | 0     | 0     | 0     | 0     | 0     | 0    |
| 90° | 0     | 0     | 0     | 0     | 0     |      |



TEST NUMBER: P250185

CATALOG NUMBER: LD8B100D010 ER8B100950 8LBM0WH

**CANDELA DISTRIBUTION (FULL):**

|       | 0°      | 22.5°   | 45°     | 67.5°   | 90°     | 112.5°  | 135°    | 157.5°  | 180°    |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0°    | 12768.3 | 12768.3 | 12768.3 | 12768.3 | 12768.3 | 12768.3 | 12768.3 | 12768.3 | 12768.3 |
| 1°    | 12777.6 | 12796.3 | 12802.4 | 12821.1 | 12793.1 | 12774.5 | 12749.7 | 12731.0 | 12734.1 |
| 2°    | 12833.5 | 12842.8 | 12808.6 | 12796.3 | 12746.6 | 12731.0 | 12712.4 | 12709.3 | 12712.4 |
| 3°    | 12892.5 | 12873.8 | 12783.8 | 12700.0 | 12625.5 | 12616.2 | 12650.3 | 12700.0 | 12727.9 |
| 4°    | 12939.1 | 12889.4 | 12700.0 | 12544.8 | 12426.8 | 12417.5 | 12554.1 | 12681.3 | 12734.1 |
| 5°    | 12963.9 | 12873.8 | 12594.4 | 12333.7 | 12178.5 | 12237.4 | 12429.9 | 12656.5 | 12752.7 |
| 6°    | 12929.7 | 12796.3 | 12433.0 | 12085.4 | 11908.4 | 11986.0 | 12268.5 | 12597.6 | 12740.4 |
| 7°    | 12842.8 | 12672.1 | 12225.0 | 11815.3 | 11597.9 | 11719.0 | 12079.1 | 12498.2 | 12693.8 |
| 8°    | 12681.3 | 12476.5 | 11961.2 | 11501.7 | 11287.5 | 11424.1 | 11846.3 | 12355.4 | 12582.1 |
| 9°    | 12470.2 | 12243.7 | 11700.4 | 11216.1 | 10986.4 | 11147.8 | 11604.2 | 12166.0 | 12426.8 |
| 10°   | 12218.8 | 11976.7 | 11411.7 | 10918.1 | 10710.1 | 10862.2 | 11343.4 | 11945.6 | 12215.7 |
| 11°   | 11923.9 | 11691.1 | 11123.0 | 10638.7 | 10440.0 | 10589.0 | 11082.6 | 11681.8 | 11973.6 |
| 12°   | 11604.2 | 11390.0 | 10828.1 | 10368.6 | 10182.4 | 10325.2 | 10803.2 | 11408.6 | 11697.3 |
| 13°   | 11284.4 | 11070.2 | 10542.5 | 10107.8 | 9937.1  | 10073.7 | 10530.0 | 11110.6 | 11399.2 |
| 14°   | 10939.8 | 10744.2 | 10256.9 | 9859.5  | 9704.3  | 9834.6  | 10250.6 | 10809.4 | 11082.6 |
| 15°   | 10582.8 | 10427.6 | 9983.7  | 9620.4  | 9474.6  | 9598.7  | 9983.7  | 10499.0 | 10762.8 |
| 16°   | 10247.5 | 10104.7 | 9719.8  | 9384.5  | 9263.5  | 9362.8  | 9713.6  | 10188.6 | 10440.0 |
| 17°   | 9906.0  | 9775.7  | 9455.9  | 9151.7  | 9043.1  | 9139.3  | 9437.3  | 9875.0  | 10101.6 |
| 18°   | 9564.6  | 9455.9  | 9167.2  | 8906.5  | 8810.2  | 8897.1  | 9164.1  | 9558.4  | 9763.2  |
| 19°   | 9247.9  | 9148.6  | 8903.4  | 8682.9  | 8596.0  | 8673.6  | 8925.1  | 9254.1  | 9459.0  |
| 20°   | 8922.0  | 8841.2  | 8627.0  | 8447.0  | 8366.3  | 8437.7  | 8633.3  | 8953.0  | 9133.1  |
| 21°   | 8608.4  | 8537.0  | 8350.8  | 8198.6  | 8133.4  | 8192.5  | 8372.5  | 8661.2  | 8819.5  |
| 22°   | 8282.5  | 8242.1  | 8074.5  | 7947.2  | 7903.7  | 7941.0  | 8105.5  | 8353.9  | 8502.9  |
| 23°   | 7962.7  | 7925.5  | 7798.2  | 7692.7  | 7655.4  | 7692.7  | 7838.6  | 8062.0  | 8195.6  |
| 24°   | 7639.9  | 7599.5  | 7506.4  | 7438.0  | 7407.1  | 7438.0  | 7562.2  | 7751.6  | 7878.9  |
| 25°   | 7270.5  | 7264.3  | 7199.1  | 7161.8  | 7146.3  | 7180.4  | 7267.4  | 7431.9  | 7537.4  |
| 26°   | 6916.5  | 6897.9  | 6879.3  | 6873.1  | 6876.2  | 6894.8  | 6966.2  | 7090.4  | 7174.2  |
| 27°   | 6481.9  | 6509.9  | 6537.8  | 6575.1  | 6587.5  | 6603.0  | 6637.1  | 6727.1  | 6789.3  |
| 28°   | 6065.9  | 6118.7  | 6187.0  | 6261.5  | 6295.7  | 6295.7  | 6298.7  | 6348.4  | 6401.2  |
| 29°   | 5653.1  | 5708.9  | 5817.6  | 5929.3  | 5975.9  | 5969.7  | 5944.8  | 5966.6  | 5997.6  |
| 30°   | 5221.6  | 5293.0  | 5438.9  | 5584.8  | 5653.1  | 5628.2  | 5581.7  | 5560.0  | 5578.6  |
| 31°   | 4799.4  | 4870.8  | 5032.2  | 5190.5  | 5280.5  | 5252.6  | 5171.9  | 5156.4  | 5165.7  |
| 32°   | 4395.8  | 4467.2  | 4616.2  | 4783.8  | 4886.3  | 4849.1  | 4765.2  | 4740.4  | 4743.5  |
| 33°   | 4004.6  | 4060.5  | 4197.1  | 4352.4  | 4436.2  | 4426.8  | 4358.5  | 4327.5  | 4330.6  |
| 34°   | 3635.2  | 3681.8  | 3784.2  | 3902.2  | 3982.9  | 3979.8  | 3930.1  | 3933.2  | 3942.6  |
| 35°   | 3306.2  | 3331.0  | 3380.6  | 3445.9  | 3495.6  | 3523.4  | 3529.7  | 3554.5  | 3585.6  |
| 37.5° | 2499.0  | 2508.3  | 2449.4  | 2384.1  | 2371.7  | 2452.5  | 2592.2  | 2713.2  | 2759.8  |
| 40°   | 1732.2  | 1710.5  | 1636.0  | 1521.2  | 1487.0  | 1577.1  | 1754.0  | 1924.7  | 1986.8  |
| 42.5° | 1077.2  | 1067.9  | 1021.3  | 934.4   | 903.4   | 956.2   | 1089.6  | 1220.0  | 1282.1  |
| 45°   | 642.6   | 630.2   | 605.3   | 571.2   | 565.0   | 586.7   | 655.0   | 729.5   | 763.7   |
| 47.5° | 369.4   | 366.3   | 350.8   | 338.4   | 335.3   | 350.8   | 381.8   | 425.3   | 434.6   |
| 50°   | 201.7   | 198.7   | 195.6   | 195.6   | 195.6   | 204.9   | 220.4   | 232.8   | 239.0   |
| 52.5° | 99.4    | 102.5   | 99.4    | 102.5   | 105.6   | 111.7   | 108.6   | 121.1   | 121.1   |
| 55°   | 49.7    | 46.6    | 52.8    | 59.0    | 59.0    | 59.0    | 59.0    | 59.0    | 55.9    |
| 57.5° | 37.2    | 40.3    | 34.2    | 37.2    | 34.2    | 34.2    | 31.1    | 34.2    | 37.2    |



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**CANDELA DISTRIBUTION (continued):**

|       | 0°   | 22.5° | 45°  | 67.5° | 90°  | 112.5° | 135° | 157.5° | 180° |
|-------|------|-------|------|-------|------|--------|------|--------|------|
| 60°   | 24.8 | 21.7  | 24.8 | 28.0  | 31.1 | 28.0   | 21.7 | 24.8   | 28.0 |
| 62.5° | 12.4 | 12.4  | 12.4 | 18.6  | 28.0 | 21.7   | 18.6 | 15.5   | 15.5 |
| 65°   | 18.6 | 12.4  | 15.5 | 18.6  | 15.5 | 15.5   | 12.4 | 15.5   | 12.4 |
| 67.5° | 9.3  | 15.5  | 9.3  | 6.2   | 9.3  | 12.4   | 9.3  | 6.2    | 6.2  |
| 70°   | 0.0  | 3.1   | 3.1  | 9.3   | 9.3  | 9.3    | 9.3  | 6.2    | 6.2  |
| 72.5° | 3.1  | 3.1   | 3.1  | 6.2   | 3.1  | 6.2    | 3.1  | 3.1    | 6.2  |
| 75°   | 0.0  | 0.0   | 3.1  | 3.1   | 0.0  | 3.1    | 0.0  | 0.0    | 0.0  |
| 77.5° | 3.1  | 0.0   | 3.1  | 3.1   | 0.0  | 0.0    | 0.0  | 3.1    | 0.0  |
| 80°   | 0.0  | 0.0   | 3.1  | 0.0   | 0.0  | 0.0    | 0.0  | 0.0    | 3.1  |
| 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)