

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: P247397

Luminaire Tested: **LD8B120D010 ER8B120840 8LBW0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P247397
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13927)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LD8B120D010 ER8B120840 8LBW0WH
Description: PORTFOLIO 8 INCH WIDE DISTRIBUTION 60 DEGREE CUTOFF RECESSED
DOWNLIGHT
80 CRI 4000 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12734.1 lumens
Efficiency: N/A
Efficacy: 107.6 lumens/watt
Spacing Criteria (0/90/45): 1.23 / 1.24 / 1.12
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

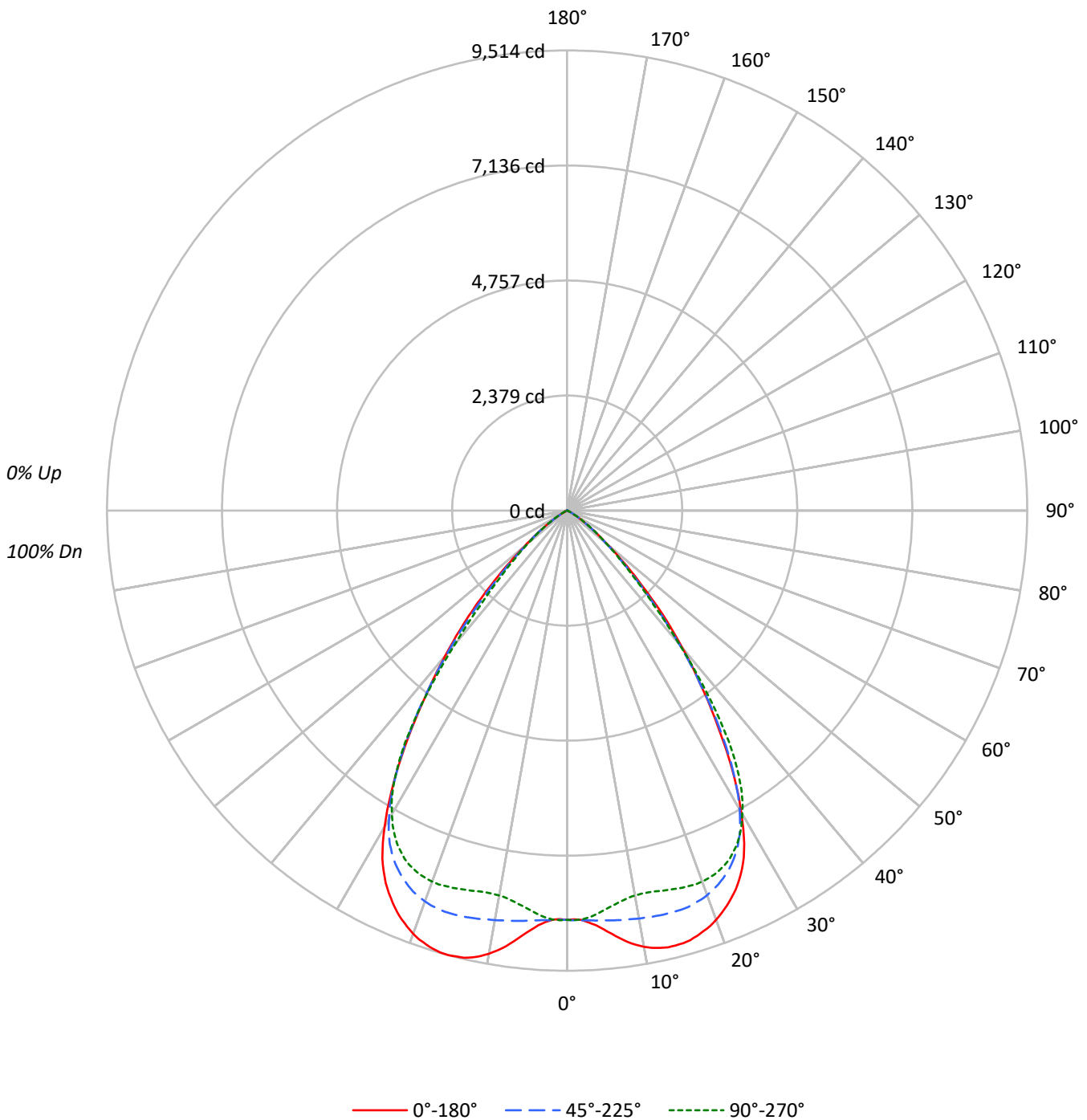
Input Watts (W): 118.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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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 | 96 | 95 | 94 | 92 | | |
| 1 | 113 | 110 | 107 | 105 | 110 | 108 | 105 | 103 | 104 | 102 | 100 | 100 | 98 | 97 | 96 | 95 | 94 | 92 | 92 | 92 | 90 | 88 | 86 | 84 | | |
| 2 | 106 | 101 | 96 | 93 | 104 | 99 | 95 | 92 | 96 | 92 | 90 | 93 | 90 | 88 | 90 | 88 | 86 | 84 | 84 | 84 | 83 | 79 | 84 | 81 | 78 | |
| 3 | 100 | 93 | 87 | 83 | 98 | 91 | 86 | 82 | 89 | 84 | 81 | 86 | 83 | 79 | 84 | 81 | 78 | 76 | 76 | 76 | 74 | 72 | 78 | 74 | 71 | |
| 4 | 94 | 85 | 79 | 74 | 92 | 84 | 79 | 74 | 82 | 77 | 73 | 80 | 76 | 72 | 78 | 74 | 71 | 70 | 70 | 70 | 66 | 73 | 69 | 65 | 64 | |
| 5 | 88 | 79 | 72 | 67 | 87 | 78 | 72 | 67 | 76 | 71 | 66 | 74 | 70 | 66 | 73 | 69 | 65 | 64 | 64 | 64 | 60 | 68 | 63 | 60 | 58 | |
| 6 | 83 | 73 | 66 | 61 | 81 | 72 | 66 | 61 | 71 | 65 | 61 | 69 | 64 | 60 | 68 | 63 | 60 | 58 | 58 | 58 | 55 | 63 | 59 | 55 | 53 | |
| 7 | 78 | 68 | 61 | 56 | 77 | 67 | 61 | 56 | 66 | 60 | 56 | 64 | 59 | 55 | 63 | 59 | 55 | 53 | 53 | 53 | 51 | 59 | 54 | 51 | 49 | |
| 8 | 74 | 63 | 56 | 52 | 72 | 62 | 56 | 51 | 61 | 55 | 51 | 60 | 55 | 51 | 59 | 54 | 51 | 49 | 49 | 49 | 47 | 55 | 50 | 47 | 45 | |
| 9 | 70 | 59 | 52 | 48 | 68 | 58 | 52 | 48 | 57 | 51 | 47 | 56 | 51 | 47 | 55 | 50 | 47 | 45 | 45 | 45 | 43 | 51 | 47 | 44 | 42 | |
| 10 | 66 | 55 | 48 | 44 | 65 | 54 | 48 | 44 | 54 | 48 | 44 | 53 | 47 | 44 | 52 | 47 | 44 | 42 | 42 | 42 | 40 | 48 | 44 | 41 | 39 | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|--------|--------|--------|
| 0° | 261008 | 261008 | 261008 |
| 5° | 269019 | 257331 | 269462 |
| 10° | 286765 | 252989 | 291267 |
| 15° | 295588 | 259195 | 303732 |
| 20° | 295577 | 267852 | 305606 |
| 25° | 286524 | 270376 | 296803 |
| 30° | 256450 | 257981 | 268738 |
| 35° | 204254 | 219548 | 215626 |
| 40° | 149229 | 145176 | 157767 |
| 45° | 95338 | 84990 | 103650 |
| 50° | 51576 | 50539 | 55375 |
| 55° | 26483 | 27451 | 26483 |
| 60° | 11527 | 11527 | 8424 |
| 65° | 2364 | 3152 | 2627 |
| 70° | 1614 | 2272 | 2588 |
| 75° | 0 | 1287 | 0 |
| 80° | 639 | 639 | 2557 |
| 85° | 0 | 1274 | 0 |



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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 815.9 | 6.4 |
| 10°-20° | 2454.7 | 19.3 |
| 20°-30° | 3736.1 | 29.3 |
| 30°-40° | 3476.9 | 27.3 |
| 40°-50° | 1692.2 | 13.3 |
| 50°-60° | 482.2 | 3.8 |
| 60°-70° | 63.0 | 0.5 |
| 70°-80° | 10.0 | 0.1 |
| 80°-90° | 3.0 | 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° | 7006.7 | 55.0 |
| 0°-40° | 10483.6 | 82.3 |
| 0°-60° | 12658.0 | 99.4 |
| 0°-90° | 12734.1 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 12734.1 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0° | 8464 | 8464 | 8464 | 8464 | 8464 | |
| 5° | 8691 | 8500 | 8313 | 8508 | 8705 | 847 |
| 15° | 9259 | 8586 | 8119 | 8669 | 9514 | 2605 |
| 25° | 8421 | 8054 | 7947 | 8231 | 8723 | 3822 |
| 35° | 5426 | 5501 | 5832 | 5771 | 5728 | 3374 |
| 45° | 2186 | 2024 | 1949 | 2183 | 2377 | 1728 |
| 55° | 493 | 493 | 511 | 500 | 493 | 483 |
| 65° | 32 | 40 | 43 | 40 | 36 | 62 |
| 75° | 0 | 4 | 11 | 4 | 0 | 7 |
| 85° | 0 | 4 | 4 | 7 | 0 | 1 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P247397

CATALOG NUMBER: LD8B120D010 ER8B120840 8LBW0WH

CANDELA DISTRIBUTION (FULL):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 8464.3 | 8464.3 | 8464.3 | 8464.3 | 8464.3 | 8464.3 | 8464.3 | 8464.3 | 8464.3 |
| 1° | 8453.5 | 8464.3 | 8471.5 | 8468.0 | 8471.5 | 8468.0 | 8460.7 | 8446.4 | 8446.4 |
| 2° | 8468.0 | 8482.3 | 8478.6 | 8471.5 | 8460.7 | 8460.7 | 8482.3 | 8453.5 | 8460.7 |
| 3° | 8525.4 | 8525.4 | 8482.3 | 8442.8 | 8428.3 | 8442.8 | 8478.6 | 8500.3 | 8518.3 |
| 4° | 8597.3 | 8583.0 | 8496.7 | 8406.9 | 8378.0 | 8414.0 | 8493.2 | 8561.4 | 8597.3 |
| 5° | 8690.9 | 8647.7 | 8500.3 | 8363.6 | 8313.3 | 8367.2 | 8507.5 | 8636.9 | 8705.2 |
| 6° | 8798.8 | 8734.0 | 8521.9 | 8316.9 | 8252.2 | 8327.7 | 8529.1 | 8726.8 | 8831.0 |
| 7° | 8906.7 | 8802.3 | 8532.7 | 8280.9 | 8198.2 | 8302.5 | 8547.0 | 8827.5 | 8964.1 |
| 8° | 9007.3 | 8867.0 | 8543.5 | 8248.7 | 8147.9 | 8255.8 | 8561.4 | 8917.3 | 9097.2 |
| 9° | 9090.0 | 8928.1 | 8550.6 | 8223.5 | 8104.8 | 8227.0 | 8579.4 | 8996.5 | 9208.6 |
| 10° | 9158.3 | 8974.9 | 8565.1 | 8209.0 | 8079.6 | 8212.7 | 8597.3 | 9064.9 | 9302.1 |
| 11° | 9212.3 | 9007.3 | 8568.6 | 8201.9 | 8068.8 | 8201.9 | 8611.7 | 9133.1 | 9381.3 |
| 12° | 9244.6 | 9036.0 | 8579.4 | 8205.4 | 8072.4 | 8212.7 | 8633.3 | 9162.0 | 9446.0 |
| 13° | 9266.2 | 9046.8 | 8586.5 | 8216.2 | 8079.6 | 8219.8 | 8647.7 | 9187.1 | 9489.1 |
| 14° | 9266.2 | 9039.7 | 8586.5 | 8227.0 | 8101.2 | 8234.1 | 8658.5 | 9205.0 | 9499.9 |
| 15° | 9259.1 | 9036.0 | 8586.5 | 8244.9 | 8119.1 | 8248.7 | 8669.3 | 9215.8 | 9514.2 |
| 16° | 9237.5 | 9014.4 | 8583.0 | 8255.8 | 8137.1 | 8263.0 | 8672.8 | 9208.6 | 9503.6 |
| 17° | 9194.2 | 9003.8 | 8568.6 | 8266.6 | 8155.1 | 8277.4 | 8672.8 | 9190.7 | 9478.3 |
| 18° | 9136.7 | 8928.1 | 8532.7 | 8255.8 | 8158.7 | 8273.8 | 8651.4 | 9143.9 | 9431.6 |
| 19° | 9086.3 | 8885.1 | 8507.5 | 8248.7 | 8173.0 | 8284.6 | 8636.9 | 9111.5 | 9381.3 |
| 20° | 9007.3 | 8813.1 | 8464.3 | 8227.0 | 8162.4 | 8263.0 | 8601.0 | 9054.1 | 9312.9 |
| 21° | 8910.2 | 8730.4 | 8403.2 | 8191.1 | 8144.3 | 8234.1 | 8550.6 | 8974.9 | 9219.4 |
| 22° | 8813.1 | 8636.9 | 8338.5 | 8155.1 | 8115.6 | 8209.0 | 8496.7 | 8892.2 | 9122.3 |
| 23° | 8698.0 | 8532.7 | 8255.8 | 8094.0 | 8072.4 | 8151.6 | 8421.2 | 8802.3 | 9007.3 |
| 24° | 8568.6 | 8410.4 | 8165.9 | 8025.6 | 8018.5 | 8090.4 | 8334.9 | 8683.6 | 8870.7 |
| 25° | 8421.2 | 8280.9 | 8054.5 | 7939.3 | 7946.6 | 8007.7 | 8230.6 | 8550.6 | 8723.3 |
| 26° | 8244.9 | 8115.6 | 7925.0 | 7835.1 | 7845.9 | 7907.1 | 8111.9 | 8396.1 | 8561.4 |
| 27° | 8047.2 | 7928.5 | 7774.0 | 7709.2 | 7738.0 | 7791.9 | 7968.2 | 8227.0 | 8360.1 |
| 28° | 7799.2 | 7705.6 | 7594.2 | 7565.5 | 7601.4 | 7662.6 | 7810.0 | 8022.1 | 8140.8 |
| 29° | 7511.4 | 7461.1 | 7374.8 | 7389.2 | 7439.5 | 7489.8 | 7612.1 | 7766.8 | 7860.3 |
| 30° | 7202.3 | 7180.7 | 7130.3 | 7187.9 | 7245.3 | 7288.6 | 7371.3 | 7475.5 | 7547.4 |
| 31° | 6885.8 | 6860.7 | 6867.8 | 6961.3 | 7047.6 | 7076.3 | 7123.1 | 7173.4 | 7227.4 |
| 32° | 6529.9 | 6522.6 | 6551.4 | 6688.1 | 6799.6 | 6813.9 | 6817.5 | 6831.8 | 6860.7 |
| 33° | 6166.7 | 6155.9 | 6213.5 | 6382.5 | 6508.3 | 6519.1 | 6490.2 | 6475.9 | 6497.5 |
| 34° | 5789.1 | 5789.1 | 5864.6 | 6040.9 | 6188.3 | 6199.0 | 6141.5 | 6134.3 | 6112.7 |
| 35° | 5425.9 | 5415.1 | 5501.4 | 5666.9 | 5832.2 | 5835.9 | 5771.1 | 5731.6 | 5728.0 |
| 37.5° | 4527.0 | 4509.1 | 4537.8 | 4624.1 | 4746.3 | 4811.1 | 4803.9 | 4789.5 | 4778.7 |
| 40° | 3707.2 | 3664.1 | 3606.5 | 3570.6 | 3606.5 | 3739.6 | 3854.6 | 3908.6 | 3919.3 |
| 42.5° | 2934.2 | 2873.0 | 2750.8 | 2650.0 | 2664.5 | 2786.7 | 2962.9 | 3085.1 | 3146.2 |
| 45° | 2186.2 | 2125.0 | 2024.4 | 1948.9 | 1948.9 | 2035.2 | 2182.6 | 2308.4 | 2376.8 |
| 47.5° | 1560.5 | 1521.0 | 1463.5 | 1431.0 | 1452.6 | 1488.6 | 1571.3 | 1664.9 | 1693.6 |
| 50° | 1075.1 | 1064.3 | 1032.0 | 1032.0 | 1053.5 | 1082.3 | 1096.7 | 1143.5 | 1154.3 |
| 52.5° | 751.6 | 733.5 | 737.1 | 740.8 | 758.7 | 762.4 | 783.8 | 773.0 | 791.1 |
| 55° | 492.6 | 492.6 | 492.6 | 503.4 | 510.6 | 510.6 | 499.8 | 492.6 | 492.6 |
| 57.5° | 312.9 | 305.6 | 309.2 | 316.4 | 316.4 | 305.6 | 287.7 | 284.0 | 266.1 |



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CANDELA DISTRIBUTION (continued):

| | 0° | 22.5° | 45° | 67.5° | 90° | 112.5° | 135° | 157.5° | 180° |
|-------|-------|-------|-------|-------|-------|--------|-------|--------|-------|
| 60° | 186.9 | 186.9 | 190.6 | 190.6 | 186.9 | 176.1 | 158.2 | 143.9 | 136.6 |
| 62.5° | 97.1 | 100.6 | 100.6 | 118.7 | 100.6 | 89.8 | 82.7 | 64.7 | 61.1 |
| 65° | 32.4 | 39.5 | 39.5 | 39.5 | 43.2 | 39.5 | 39.5 | 36.0 | 36.0 |
| 67.5° | 21.6 | 25.2 | 25.2 | 28.7 | 28.7 | 28.7 | 28.7 | 36.0 | 25.2 |
| 70° | 17.9 | 17.9 | 21.6 | 25.2 | 25.2 | 28.7 | 21.6 | 17.9 | 28.7 |
| 72.5° | 10.8 | 14.4 | 10.8 | 17.9 | 14.4 | 14.4 | 14.4 | 14.4 | 14.4 |
| 75° | 0.0 | 7.3 | 3.6 | 0.0 | 10.8 | 7.3 | 3.6 | 7.3 | 0.0 |
| 77.5° | 3.6 | 3.6 | 3.6 | 3.6 | 7.3 | 7.3 | 7.3 | 7.3 | 3.6 |
| 80° | 3.6 | 3.6 | 7.3 | 3.6 | 3.6 | 7.3 | 0.0 | 0.0 | 14.4 |
| 82.5° | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 0.0 | 3.6 | 3.6 |
| 85° | 0.0 | 3.6 | 3.6 | 3.6 | 3.6 | 3.6 | 7.3 | 7.3 | 0.0 |
| 87.5° | 0.0 | 3.6 | 0.0 | 3.6 | 0.0 | 0.0 | 0.0 | 7.3 | 0.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)