

Scaled data based on original data using

LM-41-14 Approved Method for Photometric Testing Of Indoor Fluorescent Luminaires

Test Report Prepared for

Cooper Lighting Solutions

(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P149546

Luminaire Tested: **TLM-F05-LED-E1-SL2-HSS-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-41-14  
Report Number: P149546  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: TLM-F05-LED-E1-SL2-HSS-7050  
Description: TALON MEDIUM LED SITE LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND  
HOUSE SIDE SHIELD  
Light Source: (35) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7765.9 lumens  
Efficiency: N/A  
Efficacy: 58.3 lumens/watt  
Spacing Criteria (0/90/45): 3.84 / 3.85 / 3.8  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
CIE Type: Direct

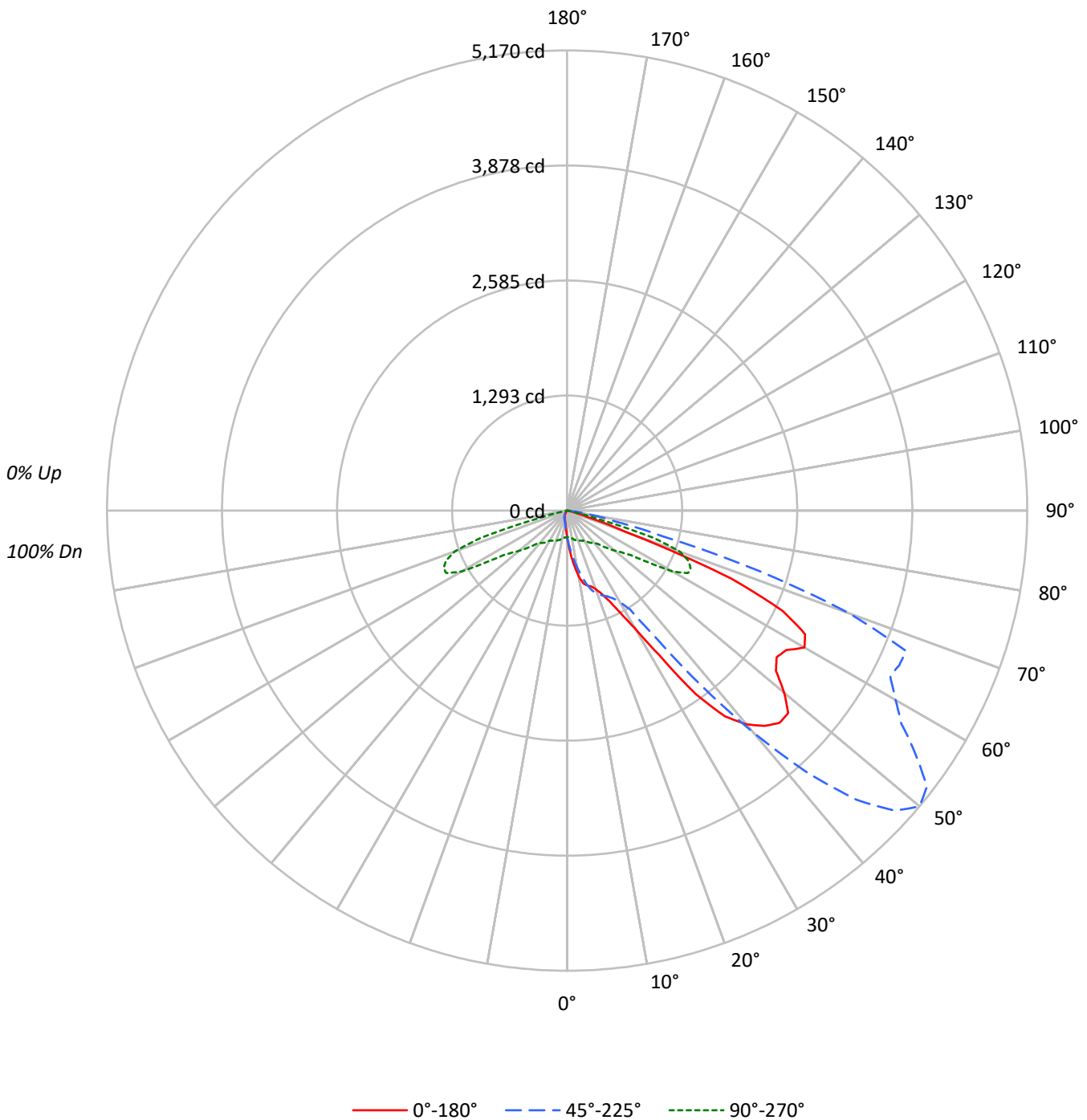
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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CATALOG NUMBER: TLM-F05-LED-E1-SL2-HSS-7050

### 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  | 0   |
| RCR |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |
| 0   | 119 | 119 | 119 | 119 | 116 | 116 | 116 | 116 | 111 | 111 | 111 | 106 | 106 | 106 | 102 | 102 | 102 | 100 |
| 1   | 106 | 100 | 94  | 89  | 103 | 97  | 92  | 88  | 93  | 89  | 85  | 89  | 86  | 82  | 85  | 82  | 80  | 78  |
| 2   | 93  | 82  | 73  | 66  | 90  | 80  | 72  | 65  | 76  | 69  | 63  | 73  | 67  | 62  | 70  | 65  | 60  | 58  |
| 3   | 82  | 68  | 58  | 49  | 79  | 66  | 57  | 49  | 63  | 55  | 48  | 60  | 53  | 47  | 57  | 51  | 46  | 43  |
| 4   | 72  | 57  | 46  | 38  | 70  | 56  | 45  | 37  | 53  | 44  | 37  | 50  | 42  | 36  | 48  | 41  | 35  | 33  |
| 5   | 65  | 49  | 38  | 29  | 62  | 47  | 37  | 29  | 45  | 36  | 29  | 43  | 35  | 28  | 41  | 34  | 28  | 25  |
| 6   | 58  | 42  | 31  | 23  | 56  | 41  | 31  | 23  | 39  | 30  | 23  | 37  | 29  | 23  | 35  | 28  | 22  | 20  |
| 7   | 53  | 37  | 26  | 19  | 51  | 36  | 26  | 19  | 34  | 25  | 19  | 33  | 24  | 18  | 31  | 24  | 18  | 16  |
| 8   | 49  | 33  | 23  | 16  | 47  | 32  | 22  | 16  | 30  | 22  | 15  | 29  | 21  | 15  | 28  | 20  | 15  | 13  |
| 9   | 45  | 29  | 20  | 13  | 43  | 29  | 19  | 13  | 27  | 19  | 13  | 26  | 18  | 13  | 25  | 18  | 13  | 11  |
| 10  | 42  | 26  | 17  | 11  | 40  | 26  | 17  | 11  | 25  | 17  | 11  | 24  | 16  | 11  | 23  | 16  | 11  | 9   |

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

|     | 0°    | 90°   | 180° |
|-----|-------|-------|------|
| 0°  | 3863  | 3863  | 3863 |
| 5°  | 6654  | 3951  | 2261 |
| 10° | 9891  | 4184  | 1654 |
| 15° | 11695 | 4625  | 1364 |
| 20° | 12956 | 4988  | 1130 |
| 25° | 16041 | 5313  | 869  |
| 30° | 22896 | 5836  | 677  |
| 35° | 39763 | 6974  | 492  |
| 40° | 53060 | 8031  | 262  |
| 45° | 61858 | 10382 | 77   |
| 50° | 64203 | 14157 | 28   |
| 55° | 64959 | 19696 | 0    |
| 60° | 79827 | 35446 | 0    |
| 65° | 82184 | 46962 | 0    |
| 70° | 26872 | 50961 | 0    |
| 75° | 4600  | 16836 | 0    |
| 80° | 1158  | 2323  | 0    |
| 85° | 0     | 1265  | 0    |



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**ZONAL LUMENS:**

| Zone      | Lumens | % Fixture |
|-----------|--------|-----------|
| 0°-10°    | 32.9   | 0.4       |
| 10°-20°   | 127.7  | 1.6       |
| 20°-30°   | 259.4  | 3.3       |
| 30°-40°   | 633.7  | 8.2       |
| 40°-50°   | 1417.1 | 18.2      |
| 50°-60°   | 1992.7 | 25.7      |
| 60°-70°   | 2343.2 | 30.2      |
| 70°-80°   | 846.1  | 10.9      |
| 80°-90°   | 113.1  | 1.5       |
| 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°    | 420.0  | 5.4       |
| 0°-40°    | 1053.6 | 13.6      |
| 0°-60°    | 4463.4 | 57.5      |
| 0°-90°    | 7765.9 | 100.0     |
| 90°-120°  | 0.0    | 0.0       |
| 90°-150°  | 0.0    | 0.0       |
| 90°-180°  | 0.0    | 0.0       |
| 0°-180°   | 7765.9 | 100.0     |

**CANDELA DISTRIBUTION:**

|     | 0°   | 45°  | 90°  | 135° | 180° | Flux |
|-----|------|------|------|------|------|------|
| 0°  | 298  | 298  | 298  | 298  | 298  |      |
| 5°  | 511  | 450  | 304  | 195  | 174  | 56   |
| 15° | 871  | 863  | 344  | 112  | 102  | 246  |
| 25° | 1121 | 1062 | 371  | 75   | 61   | 546  |
| 35° | 2512 | 1746 | 440  | 44   | 31   | 1541 |
| 45° | 3373 | 4594 | 566  | 17   | 4    | 2553 |
| 55° | 2873 | 4782 | 871  | 1    | 0    | 2663 |
| 65° | 2678 | 4117 | 1530 | 0    | 0    | 2365 |
| 75° | 92   | 1093 | 336  | 0    | 0    | 190  |
| 85° | 0    | 17   | 8    | 0    | 0    | 2    |
| 90° | 0    | 0    | 0    | 0    | 0    |      |



TEST NUMBER: P149546

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**CANDELA DISTRIBUTION (FULL):**

|       | 0°     | 5°     | 15°    | 25°    | 35°    | 45°    | 55°    | 56°    | 57°    | 58°    | 59°    |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  |
| 2.5°  | 389.7  | 393.9  | 391.1  | 384.0  | 375.5  | 364.2  | 354.4  | 354.4  | 352.9  | 348.7  | 350.1  |
| 5°    | 511.1  | 512.5  | 506.8  | 489.9  | 474.4  | 450.4  | 423.5  | 420.7  | 417.9  | 413.7  | 412.2  |
| 7.5°  | 629.7  | 635.3  | 629.7  | 611.3  | 580.2  | 543.5  | 501.2  | 497.0  | 488.5  | 488.5  | 482.8  |
| 10°   | 751.1  | 751.1  | 745.4  | 724.2  | 696.0  | 643.8  | 590.1  | 583.1  | 573.2  | 570.4  | 561.9  |
| 12.5° | 837.2  | 837.2  | 834.4  | 823.1  | 800.5  | 753.9  | 689.0  | 681.9  | 669.2  | 665.0  | 655.1  |
| 15°   | 871.1  | 871.1  | 872.5  | 882.4  | 883.8  | 862.6  | 794.8  | 789.2  | 776.5  | 765.2  | 761.0  |
| 17.5° | 892.3  | 890.8  | 890.8  | 905.0  | 930.4  | 944.5  | 900.7  | 895.1  | 881.0  | 875.3  | 861.2  |
| 20°   | 938.8  | 936.0  | 927.5  | 927.5  | 951.5  | 1001.0 | 1001.0 | 999.5  | 984.0  | 979.8  | 972.7  |
| 22.5° | 1008.0 | 1005.2 | 979.8  | 958.6  | 969.9  | 1032.0 | 1089.9 | 1087.1 | 1081.4 | 1075.8 | 1071.6 |
| 25°   | 1121.0 | 1111.1 | 1067.3 | 1005.2 | 995.3  | 1061.7 | 1157.7 | 1164.7 | 1169.0 | 1169.0 | 1171.8 |
| 27.5° | 1291.8 | 1279.1 | 1201.4 | 1085.7 | 1041.9 | 1109.7 | 1232.5 | 1246.6 | 1259.3 | 1262.1 | 1274.8 |
| 30°   | 1529.0 | 1506.4 | 1394.9 | 1225.4 | 1125.2 | 1180.3 | 1342.6 | 1358.1 | 1376.5 | 1382.1 | 1401.9 |
| 32.5° | 1918.6 | 1905.9 | 1798.6 | 1544.5 | 1329.9 | 1318.6 | 1496.5 | 1516.3 | 1540.3 | 1550.1 | 1574.1 |
| 35°   | 2511.6 | 2514.4 | 2426.9 | 2198.2 | 1901.7 | 1746.4 | 1771.8 | 1788.7 | 1797.2 | 1826.9 | 1839.6 |
| 37.5° | 2913.9 | 2921.0 | 2940.8 | 2850.4 | 2638.6 | 2480.5 | 2281.5 | 2299.8 | 2256.0 | 2260.3 | 2261.7 |
| 40°   | 3134.2 | 3156.8 | 3272.5 | 3360.1 | 3343.1 | 3251.4 | 3091.8 | 3101.7 | 3019.8 | 3001.5 | 2912.5 |
| 42.5° | 3281.0 | 3310.7 | 3495.6 | 3766.7 | 3905.0 | 3988.3 | 3951.6 | 3947.4 | 3883.8 | 3859.8 | 3785.0 |
| 45°   | 3372.8 | 3399.6 | 3632.5 | 4032.1 | 4351.1 | 4594.0 | 4694.2 | 4705.5 | 4651.9 | 4627.9 | 4565.7 |
| 47.5° | 3368.5 | 3399.6 | 3649.5 | 4130.9 | 4601.0 | 4989.3 | 5271.6 | 5285.8 | 5318.2 | 5297.0 | 5301.3 |
| 50°   | 3182.2 | 3211.8 | 3463.1 | 3962.9 | 4527.6 | 5170.0 | 5686.7 | 5731.9 | 5784.1 | 5819.4 | 5836.4 |
| 52.5° | 2956.3 | 2977.5 | 3200.5 | 3674.9 | 4214.2 | 5095.2 | 5932.4 | 6010.0 | 6087.7 | 6154.0 | 6200.6 |
| 55°   | 2873.0 | 2897.0 | 3072.1 | 3466.0 | 3962.9 | 4781.7 | 6046.7 | 6161.1 | 6271.2 | 6379.9 | 6468.8 |
| 57.5° | 2916.8 | 2939.4 | 3065.0 | 3367.1 | 3813.3 | 4451.4 | 6079.2 | 6257.1 | 6437.8 | 6614.2 | 6789.3 |
| 60°   | 3077.7 | 3101.7 | 3209.0 | 3458.9 | 3773.7 | 4260.8 | 5952.1 | 6247.2 | 6547.9 | 6855.7 | 7145.1 |
| 62.5° | 3014.2 | 3024.1 | 3182.2 | 3619.8 | 4056.1 | 4098.4 | 5490.5 | 5902.7 | 6361.5 | 6835.9 | 7303.2 |
| 63°   | 2953.5 | 2964.8 | 3125.7 | 3576.1 | 4142.2 | 4074.4 | 5347.9 | 5782.7 | 6266.9 | 6778.0 | 7286.3 |
| 65°   | 2678.2 | 2679.6 | 2802.4 | 3158.2 | 4046.2 | 4116.8 | 4712.6 | 5127.6 | 5683.9 | 6296.6 | 6939.0 |
| 67.5° | 1999.1 | 1989.2 | 2107.8 | 2378.9 | 3176.5 | 4118.2 | 4044.8 | 4277.7 | 4664.6 | 5208.1 | 5784.1 |
| 70°   | 708.7  | 693.2  | 885.2  | 1260.7 | 1979.3 | 3368.5 | 3475.8 | 3491.4 | 3598.7 | 3892.3 | 4253.7 |
| 72.5° | 230.1  | 234.4  | 282.4  | 461.7  | 912.0  | 2267.3 | 3146.9 | 3098.9 | 3070.6 | 3069.2 | 3117.2 |
| 75°   | 91.8   | 93.2   | 112.9  | 204.7  | 409.4  | 1092.7 | 2755.8 | 2782.6 | 2792.5 | 2806.6 | 2822.2 |
| 77.5° | 43.8   | 48.0   | 63.5   | 114.4  | 203.3  | 540.7  | 1972.3 | 2199.6 | 2329.5 | 2429.7 | 2490.4 |
| 80°   | 15.5   | 18.4   | 35.3   | 70.6   | 94.6   | 248.5  | 1039.1 | 1253.7 | 1444.3 | 1689.9 | 1901.7 |
| 82.5° | 0.0    | 0.0    | 7.1    | 49.4   | 52.2   | 100.2  | 426.4  | 499.8  | 571.8  | 741.2  | 951.5  |
| 85°   | 0.0    | 0.0    | 0.0    | 14.1   | 15.5   | 16.9   | 144.0  | 173.7  | 194.8  | 227.3  | 262.6  |
| 87.5° | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 1.4    | 4.2    | 8.5    | 21.2   | 32.5   |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |



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**CANDELA DISTRIBUTION (continued):**

|       | 60°    | 61°    | 62°    | 64°    | 65°    | 66°    | 67°     | 68°     | 69°     | 70°     | 71°     |
|-------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|---------|
| 0°    | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9   | 297.9   | 297.9   | 297.9   | 297.9   |
| 2.5°  | 347.3  | 345.9  | 345.9  | 343.1  | 341.7  | 338.8  | 337.4   | 333.2   | 331.8   | 331.8   | 331.8   |
| 5°    | 410.8  | 405.2  | 402.4  | 395.3  | 391.1  | 389.7  | 382.6   | 379.8   | 375.5   | 376.9   | 369.9   |
| 7.5°  | 481.4  | 471.5  | 467.3  | 457.4  | 454.6  | 444.7  | 441.9   | 434.8   | 430.6   | 422.1   | 419.3   |
| 10°   | 559.1  | 546.4  | 539.3  | 523.8  | 519.5  | 512.5  | 504.0   | 495.5   | 488.5   | 480.0   | 475.8   |
| 12.5° | 648.0  | 636.7  | 631.1  | 609.9  | 600.0  | 590.1  | 578.8   | 567.5   | 556.2   | 549.2   | 539.3   |
| 15°   | 752.5  | 734.1  | 728.5  | 708.7  | 691.8  | 679.1  | 663.5   | 649.4   | 641.0   | 626.8   | 617.0   |
| 17.5° | 855.5  | 837.2  | 833.0  | 803.3  | 785.0  | 776.5  | 759.5   | 741.2   | 725.7   | 711.5   | 696.0   |
| 20°   | 958.6  | 945.9  | 934.6  | 906.4  | 886.6  | 872.5  | 849.9   | 831.5   | 818.8   | 799.1   | 779.3   |
| 22.5° | 1061.7 | 1049.0 | 1040.5 | 1010.8 | 992.5  | 972.7  | 953.0   | 933.2   | 914.8   | 890.8   | 868.3   |
| 25°   | 1167.6 | 1159.1 | 1154.8 | 1128.0 | 1111.1 | 1092.7 | 1073.0  | 1050.4  | 1027.8  | 1001.0  | 977.0   |
| 27.5° | 1277.7 | 1280.5 | 1272.0 | 1266.4 | 1248.0 | 1235.3 | 1204.3  | 1188.7  | 1171.8  | 1139.3  | 1109.7  |
| 30°   | 1417.4 | 1425.9 | 1423.1 | 1427.3 | 1416.0 | 1407.6 | 1383.6  | 1363.8  | 1344.0  | 1313.0  | 1279.1  |
| 32.5° | 1593.9 | 1605.2 | 1610.9 | 1626.4 | 1620.7 | 1617.9 | 1610.9  | 1582.6  | 1568.5  | 1514.9  | 1500.7  |
| 35°   | 1866.4 | 1860.7 | 1884.7 | 1897.4 | 1891.8 | 1889.0 | 1880.5  | 1865.0  | 1848.0  | 1809.9  | 1774.6  |
| 37.5° | 2220.7 | 2226.4 | 2234.9 | 2209.5 | 2192.5 | 2191.1 | 2165.7  | 2150.2  | 2126.2  | 2083.8  | 2041.5  |
| 40°   | 2870.2 | 2834.9 | 2795.3 | 2688.1 | 2641.5 | 2614.6 | 2539.8  | 2518.6  | 2477.7  | 2419.8  | 2376.0  |
| 42.5° | 3714.4 | 3679.1 | 3560.5 | 3381.2 | 3285.2 | 3152.5 | 3091.8  | 3017.0  | 2959.1  | 2864.5  | 2813.7  |
| 45°   | 4553.0 | 4451.4 | 4437.3 | 4228.3 | 4109.7 | 3934.7 | 3826.0  | 3700.3  | 3569.0  | 3444.8  | 3354.4  |
| 47.5° | 5260.3 | 5237.8 | 5168.6 | 5041.5 | 4931.4 | 4784.6 | 4644.8  | 4451.4  | 4315.9  | 4139.4  | 3977.0  |
| 50°   | 5826.5 | 5825.1 | 5799.6 | 5726.2 | 5634.5 | 5515.9 | 5393.0  | 5229.3  | 5075.4  | 4859.4  | 4685.7  |
| 52.5° | 6250.0 | 6272.6 | 6281.1 | 6258.5 | 6223.2 | 6118.7 | 6056.6  | 5919.6  | 5789.8  | 5606.2  | 5418.5  |
| 55°   | 6560.6 | 6643.9 | 6686.3 | 6734.3 | 6724.4 | 6687.7 | 6684.8  | 6595.9  | 6536.6  | 6391.2  | 6258.5  |
| 57.5° | 6944.6 | 7081.6 | 7212.8 | 7445.8 | 7454.3 | 7536.1 | 7578.5  | 7620.9  | 7632.2  | 7574.3  | 7530.5  |
| 60°   | 7433.1 | 7712.6 | 7961.1 | 8448.2 | 8575.2 | 8775.7 | 8905.6  | 9046.8  | 9166.8  | 9176.7  | 9173.8  |
| 62.5° | 7777.6 | 8208.2 | 8609.1 | 9331.9 | 9579.0 | 9810.5 | 9984.2  | 10121.1 | 10204.4 | 10289.1 | 10328.7 |
| 63°   | 7787.4 | 8259.0 | 8685.3 | 9430.8 | 9690.5 | 9910.8 | 10076.0 | 10203.0 | 10290.6 | 10341.4 | 10366.8 |
| 65°   | 7548.9 | 8120.6 | 8628.9 | 9371.5 | 9615.7 | 9837.4 | 9923.5  | 10006.8 | 10049.1 | 10068.9 | 9994.1  |
| 67.5° | 6398.2 | 6957.3 | 7550.3 | 8380.4 | 8589.3 | 8854.8 | 8925.4  | 8967.7  | 8987.5  | 8983.2  | 8919.7  |
| 70°   | 4784.6 | 5253.3 | 5912.6 | 6861.3 | 7138.0 | 7397.8 | 7558.7  | 7627.9  | 7650.5  | 7643.4  | 7548.9  |
| 72.5° | 3340.3 | 3615.6 | 4159.1 | 5215.2 | 5592.1 | 5925.3 | 6124.4  | 6227.4  | 6248.6  | 6206.2  | 6118.7  |
| 75°   | 2805.2 | 2819.4 | 2942.2 | 3519.6 | 3872.5 | 4228.3 | 4452.8  | 4517.7  | 4475.4  | 4346.9  | 4123.8  |
| 77.5° | 2504.5 | 2535.6 | 2535.6 | 2621.7 | 2690.9 | 2789.7 | 2810.9  | 2652.8  | 2469.2  | 2232.0  | 2040.0  |
| 80°   | 2100.7 | 2209.5 | 2285.7 | 2349.2 | 2356.3 | 2336.5 | 2284.3  | 2195.3  | 2054.2  | 1873.4  | 1673.0  |
| 82.5° | 1276.3 | 1490.9 | 1578.4 | 1905.9 | 2066.9 | 2175.6 | 2167.1  | 2048.5  | 1941.2  | 1753.4  | 1582.6  |
| 85°   | 321.9  | 347.3  | 376.9  | 489.9  | 549.2  | 670.6  | 746.8   | 782.1   | 794.8   | 729.9   | 660.7   |
| 87.5° | 31.1   | 21.2   | 35.3   | 26.8   | 38.1   | 28.2   | 38.1    | 35.3    | 43.8    | 46.6    | 50.8    |
| 90°   | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0     | 0.0     | 0.0     | 0.0     | 0.0     |



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CATALOG NUMBER: TLM-F05-LED-E1-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 72°     | 73°     | 74°     | 75°     | 76°    | 77°    | 78°    | 79°    | 80°    | 81°    | 82°    |
|-------|---------|---------|---------|---------|--------|--------|--------|--------|--------|--------|--------|
| 0°    | 297.9   | 297.9   | 297.9   | 297.9   | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  |
| 2.5°  | 328.9   | 327.5   | 326.1   | 324.7   | 323.3  | 321.9  | 319.1  | 319.1  | 316.2  | 314.8  | 313.4  |
| 5°    | 365.7   | 362.8   | 361.4   | 358.6   | 354.4  | 351.5  | 347.3  | 341.7  | 337.4  | 336.0  | 333.2  |
| 7.5°  | 412.2   | 405.2   | 402.4   | 398.1   | 392.5  | 384.0  | 378.4  | 374.1  | 367.1  | 362.8  | 354.4  |
| 10°   | 464.5   | 457.4   | 449.0   | 440.5   | 432.0  | 422.1  | 415.1  | 409.4  | 398.1  | 392.5  | 382.6  |
| 12.5° | 530.8   | 518.1   | 508.2   | 497.0   | 485.7  | 474.4  | 465.9  | 449.0  | 439.1  | 426.4  | 417.9  |
| 15°   | 598.6   | 587.3   | 576.0   | 561.9   | 545.0  | 526.6  | 518.1  | 502.6  | 489.9  | 470.1  | 458.8  |
| 17.5° | 680.5   | 659.3   | 642.4   | 625.4   | 609.9  | 593.0  | 576.0  | 552.0  | 533.7  | 516.7  | 494.1  |
| 20°   | 761.0   | 735.5   | 717.2   | 694.6   | 672.0  | 645.2  | 625.4  | 608.5  | 583.1  | 560.5  | 536.5  |
| 22.5° | 847.1   | 821.7   | 792.0   | 769.4   | 738.4  | 717.2  | 690.4  | 662.1  | 636.7  | 607.1  | 577.4  |
| 25°   | 951.5   | 924.7   | 890.8   | 861.2   | 825.9  | 796.3  | 763.8  | 731.3  | 700.2  | 666.4  | 628.2  |
| 27.5° | 1080.0  | 1051.8  | 1015.1  | 979.8   | 933.2  | 896.5  | 865.4  | 821.7  | 782.1  | 739.8  | 696.0  |
| 30°   | 1242.4  | 1211.3  | 1166.1  | 1115.3  | 1068.7 | 1027.8 | 984.0  | 926.1  | 882.4  | 831.5  | 775.1  |
| 32.5° | 1454.1  | 1417.4  | 1356.7  | 1308.7  | 1250.8 | 1197.2 | 1136.5 | 1078.6 | 1016.5 | 950.1  | 885.2  |
| 35°   | 1721.0  | 1687.1  | 1616.5  | 1545.9  | 1482.4 | 1418.9 | 1342.6 | 1276.3 | 1188.7 | 1108.3 | 1025.0 |
| 37.5° | 1997.7  | 1937.0  | 1872.0  | 1795.8  | 1716.7 | 1640.5 | 1547.3 | 1455.6 | 1355.3 | 1267.8 | 1163.3 |
| 40°   | 2313.9  | 2240.5  | 2186.9  | 2105.0  | 1993.5 | 1884.7 | 1798.6 | 1684.3 | 1558.6 | 1441.4 | 1318.6 |
| 42.5° | 2747.3  | 2665.5  | 2569.5  | 2445.2  | 2364.8 | 2237.7 | 2126.2 | 1990.6 | 1825.4 | 1694.2 | 1545.9 |
| 45°   | 3248.5  | 3137.0  | 3043.8  | 2923.8  | 2826.4 | 2668.3 | 2538.4 | 2357.7 | 2192.5 | 2020.3 | 1839.6 |
| 47.5° | 3820.3  | 3682.0  | 3546.4  | 3427.8  | 3272.5 | 3117.2 | 2952.1 | 2760.1 | 2548.3 | 2359.1 | 2144.5 |
| 50°   | 4476.8  | 4280.6  | 4092.8  | 3940.3  | 3727.1 | 3547.8 | 3368.5 | 3152.5 | 2918.2 | 2700.8 | 2456.5 |
| 52.5° | 5206.7  | 4979.4  | 4730.9  | 4496.6  | 4249.5 | 4019.4 | 3803.4 | 3554.9 | 3293.7 | 3028.3 | 2755.8 |
| 55°   | 6087.7  | 5916.8  | 5624.6  | 5326.7  | 4996.3 | 4688.6 | 4410.4 | 4102.7 | 3785.0 | 3436.3 | 3149.7 |
| 57.5° | 7467.0  | 7383.7  | 7139.4  | 6841.5  | 6411.0 | 6036.8 | 5565.3 | 5188.3 | 4728.1 | 4248.1 | 3878.2 |
| 60°   | 9336.2  | 9233.1  | 9096.2  | 8854.8  | 8513.1 | 8004.9 | 7485.3 | 6899.4 | 6199.2 | 5534.2 | 4903.2 |
| 62.5° | 10332.9 | 10296.2 | 10184.7 | 10018.1 | 9699.0 | 9298.1 | 8774.3 | 8130.5 | 7339.9 | 6532.4 | 5727.6 |
| 63°   | 10362.6 | 10316.0 | 10220.0 | 10050.6 | 9769.6 | 9381.4 | 8867.5 | 8242.0 | 7468.4 | 6645.3 | 5823.6 |
| 65°   | 9961.6  | 9943.3  | 9845.8  | 9660.9  | 9468.9 | 9172.4 | 8774.3 | 8236.4 | 7587.0 | 6809.1 | 5991.6 |
| 67.5° | 8835.0  | 8779.9  | 8630.3  | 8573.8  | 8439.7 | 8233.6 | 7930.0 | 7560.1 | 7095.7 | 6484.4 | 5778.5 |
| 70°   | 7472.6  | 7390.7  | 7203.0  | 7102.7  | 6939.0 | 6809.1 | 6624.1 | 6360.1 | 6073.5 | 5647.2 | 5120.6 |
| 72.5° | 6028.4  | 5858.9  | 5686.7  | 5425.5  | 5196.8 | 4965.3 | 4760.6 | 4574.2 | 4259.4 | 4087.1 | 3687.6 |
| 75°   | 3914.9  | 3607.1  | 3312.1  | 2916.8  | 2561.0 | 2246.2 | 1939.8 | 1784.5 | 1461.2 | 1329.9 | 1142.1 |
| 77.5° | 1857.9  | 1685.7  | 1454.1  | 1274.8  | 1046.1 | 854.1  | 697.4  | 523.8  | 410.8  | 321.9  | 245.7  |
| 80°   | 1499.3  | 1353.9  | 1214.1  | 1051.8  | 879.5  | 701.7  | 537.9  | 402.4  | 285.2  | 197.7  | 139.8  |
| 82.5° | 1337.0  | 1178.8  | 1006.6  | 895.1   | 777.9  | 636.7  | 522.4  | 426.4  | 314.8  | 230.1  | 156.7  |
| 85°   | 519.5   | 437.7   | 337.4   | 275.3   | 214.6  | 176.5  | 159.5  | 110.1  | 86.1   | 67.8   | 52.2   |
| 87.5° | 45.2    | 36.7    | 29.6    | 19.8    | 21.2   | 11.3   | 12.7   | 8.5    | 7.1    | 7.1    | 5.6    |
| 90°   | 0.0     | 0.0     | 0.0     | 0.0     | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    | 0.0    |





TEST NUMBER: P149546

CATALOG NUMBER: TLM-F05-LED-E1-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 83°    | 84°    | 85°    | 86°    | 87°    | 88°    | 89°    | 90°    | 95°   | 105°  | 115°  |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|-------|-------|-------|
| 0°    | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9  | 297.9 | 297.9 | 297.9 |
| 2.5°  | 312.0  | 310.6  | 309.2  | 306.4  | 306.4  | 303.5  | 302.1  | 300.7  | 293.7 | 278.1 | 265.4 |
| 5°    | 327.5  | 324.7  | 321.9  | 317.7  | 314.8  | 310.6  | 307.8  | 303.5  | 288.0 | 258.4 | 232.9 |
| 7.5°  | 350.1  | 344.5  | 340.2  | 331.8  | 327.5  | 321.9  | 317.7  | 310.6  | 285.2 | 240.0 | 204.7 |
| 10°   | 376.9  | 367.1  | 360.0  | 350.1  | 341.7  | 334.6  | 327.5  | 317.7  | 282.4 | 220.2 | 179.3 |
| 12.5° | 409.4  | 398.1  | 384.0  | 372.7  | 361.4  | 351.5  | 341.7  | 328.9  | 278.1 | 203.3 | 159.5 |
| 15°   | 441.9  | 424.9  | 415.1  | 399.5  | 384.0  | 369.9  | 355.8  | 344.5  | 279.5 | 184.9 | 142.6 |
| 17.5° | 478.6  | 461.7  | 440.5  | 423.5  | 406.6  | 388.2  | 371.3  | 348.7  | 272.5 | 170.8 | 129.9 |
| 20°   | 513.9  | 489.9  | 470.1  | 449.0  | 424.9  | 402.4  | 381.2  | 361.4  | 266.8 | 156.7 | 118.6 |
| 22.5° | 552.0  | 523.8  | 498.4  | 471.5  | 441.9  | 416.5  | 391.1  | 365.7  | 256.9 | 144.0 | 108.7 |
| 25°   | 598.6  | 566.1  | 529.4  | 497.0  | 465.9  | 434.8  | 402.4  | 371.3  | 247.1 | 132.7 | 101.6 |
| 27.5° | 655.1  | 612.7  | 576.0  | 535.1  | 491.3  | 451.8  | 416.5  | 382.6  | 237.2 | 124.2 | 94.6  |
| 30°   | 727.1  | 677.7  | 625.4  | 573.2  | 526.6  | 481.4  | 432.0  | 389.7  | 227.3 | 115.8 | 87.5  |
| 32.5° | 823.1  | 761.0  | 697.4  | 636.7  | 574.6  | 516.7  | 464.5  | 409.4  | 221.7 | 108.7 | 80.5  |
| 35°   | 950.1  | 869.7  | 792.0  | 715.8  | 641.0  | 570.4  | 502.6  | 440.5  | 221.7 | 100.2 | 72.0  |
| 37.5° | 1070.1 | 977.0  | 878.1  | 783.5  | 694.6  | 612.7  | 532.2  | 457.4  | 210.4 | 93.2  | 64.9  |
| 40°   | 1200.0 | 1088.5 | 972.7  | 861.2  | 753.9  | 652.2  | 560.5  | 474.4  | 200.5 | 84.7  | 57.9  |
| 42.5° | 1399.1 | 1257.9 | 1106.8 | 977.0  | 848.5  | 722.8  | 608.5  | 506.8  | 187.8 | 76.2  | 50.8  |
| 45°   | 1660.3 | 1481.0 | 1303.1 | 1145.0 | 981.2  | 827.3  | 691.8  | 566.1  | 184.9 | 69.2  | 43.8  |
| 47.5° | 1939.8 | 1728.0 | 1519.1 | 1317.2 | 1125.2 | 945.9  | 783.5  | 632.5  | 184.9 | 62.1  | 38.1  |
| 50°   | 2217.9 | 1952.5 | 1729.4 | 1495.1 | 1279.1 | 1067.3 | 873.9  | 701.7  | 186.4 | 56.5  | 31.1  |
| 52.5° | 2469.2 | 2185.5 | 1935.6 | 1664.5 | 1425.9 | 1180.3 | 969.9  | 769.4  | 183.5 | 49.4  | 25.4  |
| 55°   | 2817.9 | 2484.8 | 2195.3 | 1896.0 | 1616.5 | 1339.8 | 1101.2 | 871.1  | 184.9 | 43.8  | 21.2  |
| 57.5° | 3460.3 | 3069.2 | 2720.5 | 2328.0 | 2006.2 | 1649.0 | 1359.6 | 1080.0 | 201.9 | 36.7  | 15.5  |
| 60°   | 4382.2 | 3874.0 | 3384.1 | 2905.5 | 2496.0 | 2071.1 | 1695.6 | 1366.6 | 237.2 | 29.6  | 11.3  |
| 62.5° | 5002.0 | 4337.0 | 3752.5 | 3224.5 | 2748.8 | 2304.0 | 1894.6 | 1520.5 | 261.2 | 24.0  | 7.1   |
| 63°   | 5065.5 | 4378.0 | 3790.7 | 3245.7 | 2760.1 | 2315.3 | 1903.1 | 1531.8 | 262.6 | 22.6  | 7.1   |
| 65°   | 5185.5 | 4448.6 | 3811.8 | 3249.9 | 2748.8 | 2299.8 | 1897.4 | 1530.4 | 265.4 | 18.4  | 5.6   |
| 67.5° | 5048.6 | 4339.9 | 3689.0 | 3128.5 | 2649.9 | 2208.0 | 1826.9 | 1473.9 | 264.0 | 12.7  | 4.2   |
| 70°   | 4514.9 | 3927.6 | 3355.8 | 2833.5 | 2398.6 | 1999.1 | 1663.1 | 1344.0 | 242.8 | 8.5   | 2.8   |
| 72.5° | 3314.9 | 2915.4 | 2472.0 | 2095.1 | 1807.1 | 1500.7 | 1280.5 | 1009.4 | 187.8 | 5.6   | 1.4   |
| 75°   | 982.6  | 895.1  | 752.5  | 663.5  | 585.9  | 484.2  | 430.6  | 336.0  | 96.0  | 2.8   | 0.0   |
| 77.5° | 196.2  | 177.9  | 159.5  | 145.4  | 136.9  | 117.2  | 111.5  | 91.8   | 39.5  | 1.4   | 0.0   |
| 80°   | 103.1  | 84.7   | 72.0   | 63.5   | 55.1   | 45.2   | 38.1   | 31.1   | 7.1   | 0.0   | 0.0   |
| 82.5° | 98.8   | 66.4   | 48.0   | 39.5   | 33.9   | 26.8   | 21.2   | 15.5   | 4.2   | 0.0   | 0.0   |
| 85°   | 36.7   | 28.2   | 21.2   | 16.9   | 14.1   | 12.7   | 9.9    | 8.5    | 0.0   | 0.0   | 0.0   |
| 87.5° | 5.6    | 4.2    | 4.2    | 2.8    | 2.8    | 1.4    | 1.4    | 1.4    | 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   | 0.0   | 0.0   |



TEST NUMBER: P149546

CATALOG NUMBER: TLM-F05-LED-E1-SL2-HSS-7050

**CANDELA DISTRIBUTION (continued):**

|       | 125°  | 135°  | 145°  | 155°  | 165°  | 175°  | 180°  |
|-------|-------|-------|-------|-------|-------|-------|-------|
| 0°    | 297.9 | 297.9 | 297.9 | 297.9 | 297.9 | 297.9 | 297.9 |
| 2.5°  | 252.7 | 241.4 | 235.8 | 228.7 | 228.7 | 227.3 | 230.1 |
| 5°    | 210.4 | 194.8 | 183.5 | 175.1 | 176.5 | 172.2 | 173.7 |
| 7.5°  | 177.9 | 162.4 | 152.5 | 146.8 | 145.4 | 144.0 | 144.0 |
| 10°   | 153.9 | 139.8 | 131.3 | 127.1 | 125.6 | 125.6 | 125.6 |
| 12.5° | 136.9 | 122.8 | 115.8 | 112.9 | 112.9 | 111.5 | 111.5 |
| 15°   | 122.8 | 111.5 | 104.5 | 101.6 | 101.6 | 100.2 | 101.6 |
| 17.5° | 111.5 | 100.2 | 94.6  | 91.8  | 91.8  | 90.4  | 90.4  |
| 20°   | 101.6 | 91.8  | 86.1  | 81.9  | 81.9  | 80.5  | 81.9  |
| 22.5° | 93.2  | 83.3  | 76.2  | 73.4  | 72.0  | 70.6  | 72.0  |
| 25°   | 84.7  | 74.8  | 67.8  | 63.5  | 62.1  | 62.1  | 60.7  |
| 27.5° | 77.6  | 67.8  | 59.3  | 55.1  | 53.6  | 53.6  | 52.2  |
| 30°   | 70.6  | 59.3  | 50.8  | 46.6  | 45.2  | 45.2  | 45.2  |
| 32.5° | 63.5  | 50.8  | 43.8  | 39.5  | 38.1  | 38.1  | 38.1  |
| 35°   | 56.5  | 43.8  | 36.7  | 32.5  | 31.1  | 31.1  | 31.1  |
| 37.5° | 48.0  | 36.7  | 28.2  | 25.4  | 24.0  | 22.6  | 22.6  |
| 40°   | 40.9  | 28.2  | 21.2  | 18.4  | 15.5  | 15.5  | 15.5  |
| 42.5° | 33.9  | 22.6  | 15.5  | 11.3  | 9.9   | 8.5   | 9.9   |
| 45°   | 28.2  | 16.9  | 9.9   | 5.6   | 4.2   | 4.2   | 4.2   |
| 47.5° | 22.6  | 11.3  | 4.2   | 1.4   | 1.4   | 1.4   | 1.4   |
| 50°   | 16.9  | 7.1   | 1.4   | 0.0   | 0.0   | 1.4   | 1.4   |
| 52.5° | 12.7  | 4.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 55°   | 7.1   | 1.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 57.5° | 4.2   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 60°   | 2.8   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 62.5° | 1.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 63°   | 1.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 65°   | 1.4   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 67.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 70°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 72.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 75°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 77.5° | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 80°   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   | 0.0   |
| 82.5° | 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   |
| 87.5° | 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   |

(END OF REPORT)