

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: P148976

Luminaire Tested: **TLM-F05-LED-E1-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148976
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33677)
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-RW-7050
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

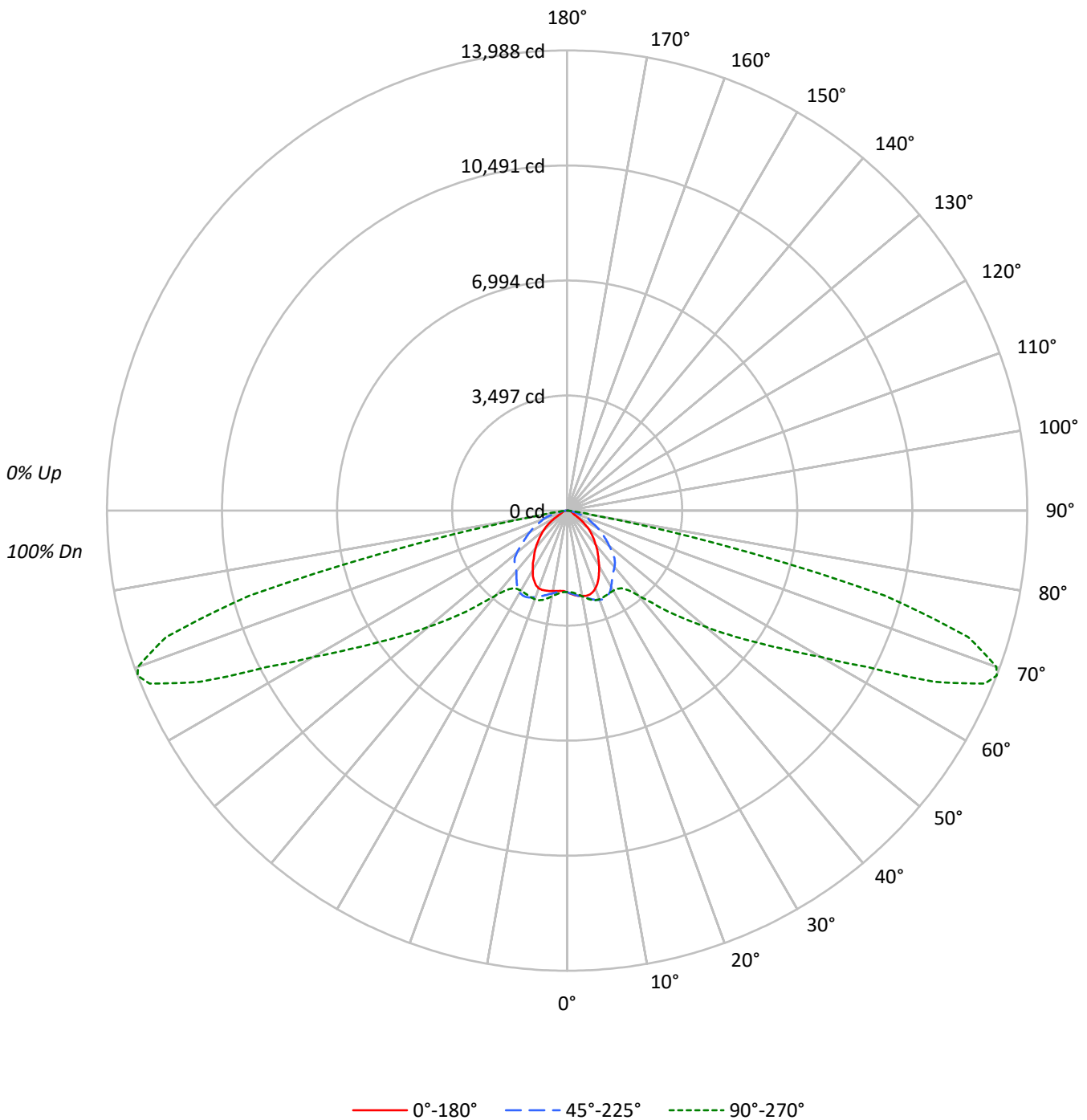
Lumens per Lamp: N/A
Luminaire Lumens: 13231.0 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (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



TEST NUMBER: P148976
CATALOG NUMBER: TLM-F05-LED-E1-RW-7050

Luminous Intensity Polar Plot





TEST NUMBER: P148976

CATALOG NUMBER: TLM-F05-LED-E1-RW-7050

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 | 106 | 101 | 95 | 91 | 104 | 98 | 93 | 89 | 94 | 90 | 86 | 90 | 87 | 84 | 86 | 84 | 81 | 79 | | | | | 79 | | | |
| 2 | 94 | 84 | 76 | 69 | 91 | 82 | 75 | 68 | 79 | 72 | 66 | 75 | 70 | 65 | 72 | 67 | 63 | 61 | | | | | 61 | | | |
| 3 | 84 | 72 | 62 | 54 | 81 | 70 | 61 | 54 | 67 | 59 | 52 | 64 | 57 | 51 | 61 | 55 | 51 | 48 | | | | | 48 | | | |
| 4 | 76 | 62 | 51 | 44 | 73 | 60 | 51 | 43 | 58 | 49 | 43 | 55 | 48 | 42 | 53 | 47 | 41 | 39 | | | | | 39 | | | |
| 5 | 69 | 54 | 44 | 36 | 67 | 53 | 43 | 36 | 51 | 42 | 35 | 49 | 41 | 35 | 47 | 40 | 35 | 32 | | | | | 32 | | | |
| 6 | 63 | 48 | 38 | 31 | 61 | 47 | 37 | 30 | 45 | 36 | 30 | 43 | 36 | 30 | 42 | 35 | 29 | 27 | | | | | 27 | | | |
| 7 | 58 | 43 | 33 | 26 | 56 | 42 | 33 | 26 | 40 | 32 | 26 | 39 | 31 | 26 | 38 | 31 | 25 | 23 | | | | | 23 | | | |
| 8 | 54 | 39 | 29 | 23 | 52 | 38 | 29 | 23 | 37 | 29 | 23 | 35 | 28 | 23 | 34 | 27 | 22 | 20 | | | | | 20 | | | |
| 9 | 50 | 35 | 26 | 20 | 49 | 35 | 26 | 20 | 34 | 26 | 20 | 32 | 25 | 20 | 31 | 25 | 20 | 18 | | | | | 18 | | | |
| 10 | 47 | 33 | 24 | 18 | 46 | 32 | 24 | 18 | 31 | 23 | 18 | 30 | 23 | 18 | 29 | 23 | 18 | 16 | | | | | 16 | | | |

AVERAGE LUMINANCE (cd/sqm):

| | 0° | 90° | 180° |
|-----|-------|--------|-------|
| 0° | 32150 | 32150 | 32150 |
| 5° | 33578 | 32733 | 31888 |
| 10° | 34728 | 34840 | 32740 |
| 15° | 35521 | 37702 | 33777 |
| 20° | 34662 | 39573 | 34740 |
| 25° | 32343 | 40545 | 33797 |
| 30° | 29111 | 42093 | 31267 |
| 35° | 25860 | 45619 | 27962 |
| 40° | 22802 | 56764 | 25191 |
| 45° | 19938 | 79542 | 22008 |
| 50° | 16776 | 110887 | 18884 |
| 55° | 12099 | 157368 | 14843 |
| 60° | 7213 | 230436 | 8863 |
| 65° | 6499 | 377558 | 6499 |
| 70° | 6639 | 526539 | 6746 |
| 75° | 7075 | 501122 | 7426 |
| 80° | 7170 | 64526 | 7804 |
| 85° | 4628 | 16174 | 6517 |



TEST NUMBER: P148976

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 243.2 | 1.8 |
| 10°-20° | 767.1 | 5.8 |
| 20°-30° | 1242.8 | 9.4 |
| 30°-40° | 1548.9 | 11.7 |
| 40°-50° | 1935.5 | 14.6 |
| 50°-60° | 2389.9 | 18.1 |
| 60°-70° | 2969.6 | 22.4 |
| 70°-80° | 1971.4 | 14.9 |
| 80°-90° | 162.8 | 1.2 |
| 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° | 2253.1 | 17.0 |
| 0°-40° | 3801.9 | 28.7 |
| 0°-60° | 8127.3 | 61.4 |
| 0°-90° | 13231.0 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 13231.0 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-------|------|------|------|
| 0° | 2479 | 2479 | 2479 | 2479 | 2479 | |
| 5° | 2579 | 2564 | 2514 | 2475 | 2450 | 248 |
| 15° | 2646 | 2781 | 2808 | 2670 | 2516 | 740 |
| 25° | 2260 | 2879 | 2834 | 2906 | 2362 | 1033 |
| 35° | 1633 | 2406 | 2882 | 2677 | 1766 | 1023 |
| 45° | 1087 | 2026 | 4337 | 2262 | 1200 | 838 |
| 55° | 535 | 1371 | 6960 | 1607 | 656 | 477 |
| 65° | 212 | 795 | 12304 | 1011 | 212 | 214 |
| 75° | 141 | 313 | 10001 | 408 | 148 | 148 |
| 85° | 31 | 59 | 109 | 78 | 44 | 40 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P148976

CATALOG NUMBER: TLM-F05-LED-E1-RW-7050

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 71° | 72° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 |
| 2.5° | 2535.6 | 2544.1 | 2535.6 | 2535.6 | 2528.5 | 2521.5 | 2517.2 | 2507.3 | 2501.7 | 2498.9 | 2498.9 |
| 5° | 2579.3 | 2577.9 | 2579.3 | 2579.3 | 2572.3 | 2563.8 | 2558.2 | 2549.7 | 2541.2 | 2539.8 | 2538.4 |
| 7.5° | 2611.8 | 2610.4 | 2614.6 | 2623.1 | 2618.9 | 2611.8 | 2611.8 | 2603.3 | 2597.7 | 2597.7 | 2594.9 |
| 10° | 2637.2 | 2638.6 | 2647.1 | 2659.8 | 2662.6 | 2661.2 | 2671.1 | 2668.3 | 2665.5 | 2668.3 | 2665.5 |
| 12.5° | 2654.2 | 2655.6 | 2666.9 | 2690.9 | 2706.4 | 2716.3 | 2741.7 | 2743.1 | 2744.5 | 2744.5 | 2744.5 |
| 15° | 2645.7 | 2645.7 | 2668.3 | 2713.5 | 2751.6 | 2781.2 | 2813.7 | 2819.4 | 2813.7 | 2817.9 | 2815.1 |
| 17.5° | 2596.3 | 2599.1 | 2635.8 | 2705.0 | 2782.6 | 2847.6 | 2882.9 | 2873.0 | 2863.1 | 2863.1 | 2858.9 |
| 20° | 2511.6 | 2517.2 | 2566.6 | 2664.1 | 2786.9 | 2889.9 | 2945.0 | 2912.5 | 2885.7 | 2881.5 | 2877.2 |
| 22.5° | 2407.1 | 2402.9 | 2462.2 | 2585.0 | 2754.4 | 2908.3 | 2983.1 | 2943.6 | 2895.6 | 2885.7 | 2878.6 |
| 25° | 2260.3 | 2263.1 | 2325.2 | 2462.2 | 2672.5 | 2878.6 | 2994.4 | 2974.6 | 2918.2 | 2905.5 | 2889.9 |
| 27.5° | 2099.3 | 2106.4 | 2172.7 | 2312.5 | 2545.5 | 2805.2 | 2981.7 | 3005.7 | 2961.9 | 2947.8 | 2933.7 |
| 30° | 1944.0 | 1948.3 | 2023.1 | 2172.7 | 2388.8 | 2675.3 | 2947.8 | 3039.6 | 3017.0 | 3005.7 | 2993.0 |
| 32.5° | 1778.9 | 1793.0 | 1857.9 | 2027.3 | 2264.5 | 2532.8 | 2895.6 | 3074.9 | 3083.4 | 3076.3 | 3069.2 |
| 35° | 1633.4 | 1644.7 | 1718.2 | 1896.0 | 2144.5 | 2405.7 | 2832.1 | 3113.0 | 3170.9 | 3169.5 | 3168.1 |
| 37.5° | 1502.1 | 1505.0 | 1582.6 | 1763.3 | 2025.9 | 2316.8 | 2765.7 | 3175.1 | 3278.2 | 3292.3 | 3309.2 |
| 40° | 1346.9 | 1361.0 | 1441.4 | 1636.3 | 1908.7 | 2240.5 | 2709.2 | 3258.4 | 3427.8 | 3458.9 | 3482.9 |
| 42.5° | 1222.6 | 1222.6 | 1294.6 | 1488.0 | 1770.4 | 2153.0 | 2689.5 | 3362.9 | 3605.7 | 3648.1 | 3690.4 |
| 45° | 1087.1 | 1091.3 | 1160.5 | 1337.0 | 1612.3 | 2025.9 | 2686.6 | 3478.7 | 3804.8 | 3865.5 | 3917.7 |
| 47.5° | 958.6 | 961.4 | 1034.8 | 1205.7 | 1448.5 | 1850.9 | 2651.3 | 3607.1 | 4013.7 | 4101.3 | 4159.1 |
| 50° | 831.5 | 827.3 | 897.9 | 1071.6 | 1303.1 | 1670.2 | 2538.4 | 3773.7 | 4273.5 | 4361.0 | 4427.4 |
| 52.5° | 674.8 | 686.1 | 762.4 | 927.5 | 1160.5 | 1516.3 | 2308.3 | 3937.5 | 4541.7 | 4640.6 | 4730.9 |
| 55° | 535.1 | 533.7 | 619.8 | 769.4 | 1006.6 | 1370.9 | 2035.8 | 4053.3 | 4802.9 | 4917.3 | 5017.5 |
| 57.5° | 384.0 | 388.2 | 461.7 | 609.9 | 847.1 | 1241.0 | 1829.7 | 4033.5 | 5004.8 | 5140.3 | 5267.4 |
| 60° | 278.1 | 286.6 | 341.7 | 450.4 | 676.2 | 1091.3 | 1685.7 | 3804.8 | 5143.2 | 5328.1 | 5482.0 |
| 62.5° | 234.4 | 241.4 | 289.4 | 348.7 | 522.4 | 934.6 | 1545.9 | 3437.7 | 5322.5 | 5566.7 | 5789.8 |
| 65° | 211.8 | 217.4 | 265.4 | 299.3 | 400.9 | 794.8 | 1458.4 | 3177.9 | 5558.2 | 5929.5 | 6234.5 |
| 67.5° | 190.6 | 199.1 | 241.4 | 266.8 | 340.2 | 710.1 | 1433.0 | 3138.4 | 5603.4 | 6094.7 | 6528.1 |
| 69° | 180.7 | 189.2 | 227.3 | 249.9 | 320.5 | 683.3 | 1385.0 | 2995.8 | 5308.3 | 5836.4 | 6322.0 |
| 70° | 175.1 | 182.1 | 216.0 | 240.0 | 314.8 | 657.9 | 1317.2 | 2786.9 | 4994.9 | 5527.2 | 6049.5 |
| 72.5° | 160.9 | 165.2 | 193.4 | 217.4 | 289.4 | 505.4 | 998.1 | 2013.2 | 3728.5 | 4255.1 | 4767.6 |
| 75° | 141.2 | 145.4 | 170.8 | 194.8 | 224.5 | 313.4 | 605.7 | 1194.4 | 2288.5 | 2642.9 | 3156.8 |
| 77.5° | 121.4 | 125.6 | 146.8 | 183.5 | 177.9 | 204.7 | 369.9 | 714.4 | 1200.0 | 1376.5 | 1705.4 |
| 80° | 96.0 | 101.6 | 122.8 | 176.5 | 148.2 | 162.4 | 271.1 | 528.0 | 729.9 | 803.3 | 889.4 |
| 82.5° | 67.8 | 70.6 | 93.2 | 141.2 | 111.5 | 122.8 | 203.3 | 439.1 | 585.9 | 639.5 | 665.0 |
| 85° | 31.1 | 32.5 | 55.1 | 83.3 | 66.4 | 59.3 | 108.7 | 280.9 | 388.2 | 403.8 | 426.4 |
| 87.5° | 0.0 | 0.0 | 5.6 | 5.6 | 11.3 | 7.1 | 12.7 | 35.3 | 59.3 | 59.3 | 72.0 |
| 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: P148976

CATALOG NUMBER: TLM-F05-LED-E1-RW-7050

CANDELA DISTRIBUTION (continued):

| | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|
| 0° | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 |
| 2.5° | 2500.3 | 2498.9 | 2500.3 | 2500.3 | 2501.7 | 2496.0 | 2494.6 | 2493.2 | 2491.8 | 2493.2 | 2490.4 |
| 5° | 2538.4 | 2537.0 | 2537.0 | 2538.4 | 2537.0 | 2532.8 | 2531.3 | 2531.3 | 2527.1 | 2525.7 | 2525.7 |
| 7.5° | 2596.3 | 2593.5 | 2589.2 | 2592.1 | 2593.5 | 2592.1 | 2593.5 | 2589.2 | 2589.2 | 2585.0 | 2586.4 |
| 10° | 2668.3 | 2665.5 | 2664.1 | 2666.9 | 2668.3 | 2666.9 | 2668.3 | 2662.6 | 2661.2 | 2659.8 | 2657.0 |
| 12.5° | 2747.3 | 2741.7 | 2745.9 | 2745.9 | 2747.3 | 2753.0 | 2745.9 | 2748.8 | 2743.1 | 2743.1 | 2741.7 |
| 15° | 2816.5 | 2815.1 | 2817.9 | 2817.9 | 2816.5 | 2820.8 | 2819.4 | 2820.8 | 2813.7 | 2810.9 | 2817.9 |
| 17.5° | 2860.3 | 2856.1 | 2857.5 | 2856.1 | 2856.1 | 2856.1 | 2858.9 | 2858.9 | 2854.6 | 2853.2 | 2856.1 |
| 20° | 2871.6 | 2864.5 | 2863.1 | 2861.7 | 2858.9 | 2858.9 | 2860.3 | 2857.5 | 2854.6 | 2851.8 | 2854.6 |
| 22.5° | 2868.8 | 2860.3 | 2851.8 | 2847.6 | 2843.4 | 2837.7 | 2836.3 | 2833.5 | 2829.2 | 2829.2 | 2830.6 |
| 25° | 2878.6 | 2863.1 | 2850.4 | 2841.9 | 2830.6 | 2823.6 | 2817.9 | 2810.9 | 2803.8 | 2799.6 | 2801.0 |
| 27.5° | 2912.5 | 2895.6 | 2878.6 | 2861.7 | 2844.8 | 2830.6 | 2819.4 | 2806.6 | 2795.3 | 2786.9 | 2782.6 |
| 30° | 2976.1 | 2953.5 | 2933.7 | 2913.9 | 2892.8 | 2873.0 | 2854.6 | 2834.9 | 2813.7 | 2801.0 | 2789.7 |
| 32.5° | 3049.5 | 3033.9 | 3021.2 | 2998.6 | 2976.1 | 2952.1 | 2929.5 | 2912.5 | 2881.5 | 2857.5 | 2837.7 |
| 35° | 3161.0 | 3155.4 | 3148.3 | 3131.4 | 3105.9 | 3093.2 | 3074.9 | 3048.1 | 3011.4 | 2990.2 | 2960.5 |
| 37.5° | 3314.9 | 3316.3 | 3310.7 | 3303.6 | 3306.4 | 3282.4 | 3271.1 | 3268.3 | 3231.6 | 3217.5 | 3173.7 |
| 40° | 3504.1 | 3525.2 | 3543.6 | 3543.6 | 3557.7 | 3559.1 | 3556.3 | 3580.3 | 3553.5 | 3559.1 | 3512.5 |
| 42.5° | 3714.4 | 3765.3 | 3793.5 | 3814.7 | 3861.3 | 3882.4 | 3917.7 | 3970.0 | 3972.8 | 3999.6 | 4002.4 |
| 45° | 3962.9 | 4019.4 | 4073.0 | 4128.1 | 4190.2 | 4263.6 | 4337.0 | 4390.7 | 4475.4 | 4493.7 | 4554.4 |
| 47.5° | 4221.3 | 4303.1 | 4365.3 | 4435.9 | 4541.7 | 4636.3 | 4745.0 | 4855.2 | 4952.6 | 5021.7 | 5061.3 |
| 50° | 4506.4 | 4589.7 | 4680.1 | 4759.2 | 4872.1 | 5004.8 | 5155.9 | 5306.9 | 5432.6 | 5555.4 | 5654.2 |
| 52.5° | 4822.7 | 4914.5 | 4999.2 | 5102.2 | 5216.6 | 5374.7 | 5539.9 | 5747.4 | 5915.4 | 6083.4 | 6204.8 |
| 55° | 5126.2 | 5229.3 | 5306.9 | 5438.2 | 5556.8 | 5719.2 | 5923.9 | 6169.5 | 6402.5 | 6605.8 | 6771.0 |
| 57.5° | 5390.2 | 5491.9 | 5600.6 | 5713.5 | 5857.5 | 6019.9 | 6271.2 | 6550.7 | 6816.1 | 7083.0 | 7327.2 |
| 60° | 5637.3 | 5774.2 | 5892.8 | 6042.5 | 6186.5 | 6374.2 | 6673.5 | 7019.4 | 7382.3 | 7714.0 | 7958.3 |
| 62.5° | 6010.0 | 6185.1 | 6324.8 | 6509.8 | 6710.3 | 6931.9 | 7262.3 | 7643.4 | 8116.4 | 8544.2 | 8923.9 |
| 65° | 6531.0 | 6799.2 | 7025.1 | 7252.4 | 7496.6 | 7801.6 | 8158.7 | 8643.0 | 9165.4 | 9797.8 | 10299.0 |
| 67.5° | 6902.3 | 7238.3 | 7530.5 | 7815.7 | 8096.6 | 8434.0 | 8875.9 | 9443.5 | 10119.7 | 10784.7 | 11421.4 |
| 69° | 6752.6 | 7108.4 | 7433.1 | 7716.9 | 8013.3 | 8350.8 | 8781.4 | 9404.0 | 10092.9 | 10824.2 | 11455.3 |
| 70° | 6437.8 | 6821.8 | 7169.1 | 7440.1 | 7743.7 | 8078.3 | 8554.1 | 9148.4 | 9851.5 | 10608.2 | 11226.6 |
| 72.5° | 5177.0 | 5582.2 | 5925.3 | 6226.0 | 6543.7 | 6936.1 | 7359.7 | 7930.0 | 8709.3 | 9450.5 | 10001.1 |
| 75° | 3566.2 | 3944.5 | 4332.8 | 4557.3 | 4921.5 | 5201.0 | 5603.4 | 6187.9 | 6838.7 | 7383.7 | 7893.3 |
| 77.5° | 2017.5 | 2220.7 | 2514.4 | 2606.2 | 2867.4 | 3053.7 | 3266.9 | 3626.9 | 3965.7 | 4282.0 | 4373.7 |
| 80° | 917.7 | 857.0 | 886.6 | 841.4 | 890.8 | 859.8 | 824.5 | 844.3 | 840.0 | 903.5 | 844.3 |
| 82.5° | 660.7 | 570.4 | 474.4 | 409.4 | 360.0 | 304.9 | 259.8 | 232.9 | 230.1 | 241.4 | 237.2 |
| 85° | 422.1 | 385.4 | 302.1 | 242.8 | 186.4 | 144.0 | 120.0 | 108.7 | 108.7 | 115.8 | 114.4 |
| 87.5° | 73.4 | 63.5 | 39.5 | 33.9 | 29.6 | 19.8 | 12.7 | 12.7 | 11.3 | 14.1 | 18.4 |
| 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: P148976

CATALOG NUMBER: TLM-F05-LED-E1-RW-7050

CANDELA DISTRIBUTION (continued):

| | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 |
| 2.5° | 2490.4 | 2489.0 | 2486.2 | 2484.8 | 2484.8 | 2481.9 | 2480.5 | 2483.3 | 2484.8 | 2486.2 | 2481.9 |
| 5° | 2525.7 | 2521.5 | 2520.0 | 2521.5 | 2514.4 | 2515.8 | 2514.4 | 2515.8 | 2515.8 | 2515.8 | 2513.0 |
| 7.5° | 2582.2 | 2577.9 | 2580.8 | 2577.9 | 2573.7 | 2572.3 | 2572.3 | 2568.1 | 2562.4 | 2561.0 | 2562.4 |
| 10° | 2659.8 | 2654.2 | 2655.6 | 2657.0 | 2652.8 | 2649.9 | 2645.7 | 2640.1 | 2640.1 | 2638.6 | 2635.8 |
| 12.5° | 2743.1 | 2740.3 | 2740.3 | 2741.7 | 2740.3 | 2734.6 | 2729.0 | 2726.2 | 2724.8 | 2724.8 | 2724.8 |
| 15° | 2815.1 | 2813.7 | 2815.1 | 2813.7 | 2813.7 | 2810.9 | 2808.1 | 2803.8 | 2802.4 | 2803.8 | 2805.2 |
| 17.5° | 2856.1 | 2851.8 | 2856.1 | 2857.5 | 2856.1 | 2856.1 | 2856.1 | 2853.2 | 2851.8 | 2851.8 | 2853.2 |
| 20° | 2858.9 | 2856.1 | 2858.9 | 2863.1 | 2863.1 | 2864.5 | 2867.4 | 2868.8 | 2867.4 | 2870.2 | 2871.6 |
| 22.5° | 2830.6 | 2830.6 | 2834.9 | 2839.1 | 2846.2 | 2849.0 | 2854.6 | 2857.5 | 2860.3 | 2864.5 | 2867.4 |
| 25° | 2802.4 | 2801.0 | 2805.2 | 2813.7 | 2819.4 | 2826.4 | 2833.5 | 2839.1 | 2844.8 | 2850.4 | 2856.1 |
| 27.5° | 2782.6 | 2781.2 | 2784.1 | 2791.1 | 2798.2 | 2806.6 | 2817.9 | 2826.4 | 2833.5 | 2840.5 | 2844.8 |
| 30° | 2784.1 | 2778.4 | 2777.0 | 2782.6 | 2789.7 | 2799.6 | 2810.9 | 2820.8 | 2830.6 | 2836.3 | 2840.5 |
| 32.5° | 2825.0 | 2810.9 | 2805.2 | 2803.8 | 2806.6 | 2813.7 | 2822.2 | 2832.1 | 2839.1 | 2844.8 | 2846.2 |
| 35° | 2930.9 | 2904.1 | 2898.4 | 2880.1 | 2882.9 | 2881.5 | 2881.5 | 2887.1 | 2892.8 | 2892.8 | 2882.9 |
| 37.5° | 3145.5 | 3107.4 | 3080.5 | 3062.2 | 3043.8 | 3042.4 | 3039.6 | 3036.8 | 3022.6 | 3014.2 | 3012.8 |
| 40° | 3480.1 | 3464.5 | 3413.7 | 3399.6 | 3368.5 | 3347.4 | 3353.0 | 3341.7 | 3307.8 | 3295.1 | 3289.5 |
| 42.5° | 3968.5 | 3977.0 | 3948.8 | 3882.4 | 3855.6 | 3814.7 | 3780.8 | 3775.1 | 3744.1 | 3718.7 | 3698.9 |
| 45° | 4541.7 | 4557.3 | 4536.1 | 4488.1 | 4440.1 | 4378.0 | 4337.0 | 4258.0 | 4226.9 | 4187.4 | 4160.6 |
| 47.5° | 5130.5 | 5172.8 | 5138.9 | 5096.6 | 5069.7 | 4972.3 | 4887.6 | 4795.9 | 4749.3 | 4692.8 | 4667.4 |
| 50° | 5714.9 | 5789.8 | 5770.0 | 5730.5 | 5700.8 | 5578.0 | 5496.1 | 5369.0 | 5342.2 | 5285.8 | 5254.7 |
| 52.5° | 6299.4 | 6372.8 | 6416.6 | 6379.9 | 6358.7 | 6259.9 | 6203.4 | 6101.8 | 6025.5 | 5990.2 | 5988.8 |
| 55° | 6889.5 | 7008.1 | 7077.3 | 7064.6 | 7029.3 | 7016.6 | 6960.1 | 6950.3 | 6891.0 | 6852.8 | 6802.0 |
| 57.5° | 7467.0 | 7592.6 | 7712.6 | 7783.2 | 7812.9 | 7803.0 | 7829.8 | 7827.0 | 7835.4 | 7831.2 | 7747.9 |
| 60° | 8201.1 | 8400.2 | 8575.2 | 8686.8 | 8792.6 | 8866.1 | 8884.4 | 8993.1 | 8962.1 | 9029.8 | 8899.9 |
| 62.5° | 9237.4 | 9495.7 | 9761.1 | 9878.3 | 10008.2 | 10246.8 | 10303.3 | 10431.7 | 10451.5 | 10468.4 | 10399.3 |
| 65° | 10681.6 | 11020.5 | 11421.4 | 11600.7 | 11804.0 | 12110.4 | 12303.8 | 12440.7 | 12436.5 | 12343.3 | 12254.4 |
| 67.5° | 11914.1 | 12315.1 | 12683.5 | 12995.6 | 13299.1 | 13537.7 | 13741.0 | 13925.9 | 13935.8 | 13877.9 | 13725.4 |
| 69° | 12020.0 | 12439.3 | 12840.3 | 13215.8 | 13516.5 | 13781.9 | 13988.0 | 14132.0 | 14163.1 | 14112.3 | 13971.1 |
| 70° | 11823.8 | 12247.3 | 12683.5 | 13043.6 | 13383.8 | 13664.7 | 13886.4 | 14024.7 | 14067.1 | 14014.9 | 13882.2 |
| 72.5° | 10616.7 | 11027.5 | 11353.6 | 11777.2 | 12261.4 | 12437.9 | 12779.5 | 12892.5 | 12997.0 | 12927.8 | 12848.7 |
| 75° | 8316.9 | 8703.7 | 9041.1 | 9261.4 | 9483.0 | 9919.3 | 10001.1 | 10212.9 | 10284.9 | 10217.1 | 10304.7 |
| 77.5° | 4332.8 | 4594.0 | 4706.9 | 4530.4 | 4557.3 | 4901.7 | 4706.9 | 4935.6 | 5066.9 | 5105.0 | 5160.1 |
| 80° | 828.7 | 871.1 | 903.5 | 892.3 | 903.5 | 929.0 | 864.0 | 828.7 | 875.3 | 865.4 | 865.4 |
| 82.5° | 244.2 | 240.0 | 240.0 | 252.7 | 251.3 | 256.9 | 256.9 | 247.1 | 254.1 | 254.1 | 255.5 |
| 85° | 111.5 | 105.9 | 104.5 | 105.9 | 104.5 | 104.5 | 108.7 | 108.7 | 117.2 | 110.1 | 111.5 |
| 87.5° | 14.1 | 12.7 | 14.1 | 14.1 | 11.3 | 11.3 | 12.7 | 14.1 | 14.1 | 12.7 | 12.7 |
| 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: P148976

CATALOG NUMBER: TLM-F05-LED-E1-RW-7050

CANDELA DISTRIBUTION (continued):

| | 95° | 96° | 97° | 98° | 99° | 100° | 105° | 115° | 125° | 135° | 145° |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 |
| 2.5° | 2480.5 | 2479.1 | 2479.1 | 2479.1 | 2477.7 | 2476.3 | 2474.9 | 2470.6 | 2466.4 | 2465.0 | 2457.9 |
| 5° | 2507.3 | 2508.8 | 2505.9 | 2503.1 | 2503.1 | 2503.1 | 2498.9 | 2487.6 | 2479.1 | 2474.9 | 2465.0 |
| 7.5° | 2563.8 | 2561.0 | 2556.8 | 2555.3 | 2552.5 | 2553.9 | 2545.5 | 2531.3 | 2515.8 | 2505.9 | 2490.4 |
| 10° | 2638.6 | 2635.8 | 2633.0 | 2630.2 | 2625.9 | 2625.9 | 2616.1 | 2594.9 | 2570.9 | 2553.9 | 2525.7 |
| 12.5° | 2726.2 | 2723.3 | 2720.5 | 2719.1 | 2712.1 | 2710.6 | 2696.5 | 2671.1 | 2640.1 | 2607.6 | 2566.6 |
| 15° | 2806.6 | 2802.4 | 2801.0 | 2796.8 | 2792.5 | 2791.1 | 2778.4 | 2744.5 | 2706.4 | 2669.7 | 2616.1 |
| 17.5° | 2857.5 | 2854.6 | 2850.4 | 2847.6 | 2846.2 | 2844.8 | 2826.4 | 2798.2 | 2768.5 | 2731.8 | 2666.9 |
| 20° | 2874.4 | 2875.8 | 2873.0 | 2870.2 | 2865.9 | 2863.1 | 2846.2 | 2819.4 | 2813.7 | 2793.9 | 2727.6 |
| 22.5° | 2871.6 | 2871.6 | 2870.2 | 2864.5 | 2861.7 | 2854.6 | 2830.6 | 2817.9 | 2849.0 | 2857.5 | 2772.8 |
| 25° | 2860.3 | 2858.9 | 2854.6 | 2850.4 | 2841.9 | 2832.1 | 2795.3 | 2802.4 | 2889.9 | 2905.5 | 2782.6 |
| 27.5° | 2847.6 | 2846.2 | 2839.1 | 2829.2 | 2816.5 | 2802.4 | 2755.8 | 2802.4 | 2928.1 | 2915.4 | 2741.7 |
| 30° | 2840.5 | 2834.9 | 2825.0 | 2810.9 | 2793.9 | 2778.4 | 2727.6 | 2839.1 | 2954.9 | 2881.5 | 2628.8 |
| 32.5° | 2841.9 | 2832.1 | 2817.9 | 2799.6 | 2779.8 | 2761.5 | 2726.2 | 2904.1 | 2964.8 | 2799.6 | 2469.2 |
| 35° | 2875.8 | 2860.3 | 2841.9 | 2823.6 | 2803.8 | 2786.9 | 2789.7 | 2994.4 | 2963.4 | 2676.8 | 2315.3 |
| 37.5° | 2998.6 | 2971.8 | 2959.1 | 2939.4 | 2911.1 | 2897.0 | 2953.5 | 3094.6 | 2943.6 | 2527.1 | 2179.8 |
| 40° | 3269.7 | 3247.1 | 3228.8 | 3177.9 | 3187.8 | 3176.5 | 3230.2 | 3231.6 | 2918.2 | 2401.5 | 2066.9 |
| 42.5° | 3665.0 | 3665.0 | 3625.5 | 3618.4 | 3591.6 | 3604.3 | 3628.3 | 3392.5 | 2892.8 | 2326.6 | 1955.3 |
| 45° | 4130.9 | 4166.2 | 4150.7 | 4146.4 | 4167.6 | 4193.0 | 4082.9 | 3583.1 | 2894.2 | 2261.7 | 1825.4 |
| 47.5° | 4684.3 | 4714.0 | 4729.5 | 4754.9 | 4781.7 | 4766.2 | 4538.9 | 3783.6 | 2919.6 | 2168.5 | 1658.9 |
| 50° | 5273.0 | 5345.0 | 5367.6 | 5400.1 | 5424.1 | 5428.3 | 4970.9 | 3989.7 | 2946.4 | 1997.7 | 1478.1 |
| 52.5° | 6002.9 | 6070.7 | 6094.7 | 6117.3 | 6098.9 | 6083.4 | 5394.5 | 4234.0 | 2925.2 | 1794.4 | 1324.3 |
| 55° | 6861.3 | 6874.0 | 6869.8 | 6841.5 | 6826.0 | 6741.3 | 5786.9 | 4493.7 | 2760.1 | 1606.6 | 1177.4 |
| 57.5° | 7755.0 | 7760.6 | 7709.8 | 7611.0 | 7496.6 | 7416.1 | 6163.9 | 4708.3 | 2409.9 | 1455.6 | 1032.0 |
| 60° | 8905.6 | 8789.8 | 8703.7 | 8552.6 | 8366.3 | 8194.0 | 6567.7 | 4828.3 | 2075.3 | 1310.1 | 868.3 |
| 62.5° | 10294.8 | 10063.3 | 9876.9 | 9724.4 | 9449.1 | 9145.6 | 7083.0 | 4843.9 | 1872.0 | 1171.8 | 681.9 |
| 65° | 12093.4 | 11849.2 | 11531.5 | 11270.3 | 10972.5 | 10563.0 | 7914.5 | 4732.3 | 1771.8 | 1010.8 | 498.4 |
| 67.5° | 13509.4 | 13262.4 | 12906.6 | 12614.4 | 12230.4 | 11753.2 | 8603.5 | 4537.5 | 1747.8 | 865.4 | 392.5 |
| 69° | 13756.5 | 13486.9 | 13166.4 | 12800.7 | 12392.7 | 11883.1 | 8630.3 | 4311.6 | 1711.1 | 810.4 | 360.0 |
| 70° | 13666.2 | 13385.2 | 13076.0 | 12687.8 | 12230.4 | 11706.6 | 8427.0 | 4060.3 | 1637.7 | 779.3 | 348.7 |
| 72.5° | 12652.5 | 12224.7 | 11914.1 | 11582.3 | 11026.1 | 10495.3 | 7255.2 | 3072.1 | 1274.8 | 656.5 | 326.1 |
| 75° | 10129.6 | 9764.0 | 9413.8 | 9248.7 | 8787.0 | 8336.6 | 5446.7 | 1951.1 | 833.0 | 408.0 | 255.5 |
| 77.5° | 5164.3 | 5098.0 | 5198.2 | 5123.4 | 4790.2 | 4790.2 | 3361.5 | 1036.3 | 489.9 | 245.7 | 194.8 |
| 80° | 927.5 | 967.1 | 948.7 | 988.3 | 919.1 | 1020.7 | 1181.7 | 696.0 | 347.3 | 187.8 | 159.5 |
| 82.5° | 259.8 | 262.6 | 259.8 | 261.2 | 269.7 | 283.8 | 614.1 | 598.6 | 268.2 | 141.2 | 124.2 |
| 85° | 121.4 | 122.8 | 125.6 | 125.6 | 136.9 | 139.8 | 412.2 | 429.2 | 156.7 | 77.6 | 83.3 |
| 87.5° | 14.1 | 18.4 | 18.4 | 16.9 | 19.8 | 19.8 | 76.2 | 86.1 | 21.2 | 15.5 | 25.4 |
| 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: P148976

CATALOG NUMBER: TLM-F05-LED-E1-RW-7050

CANDELA DISTRIBUTION (continued):

| | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2479.1 | 2479.1 | 2479.1 | 2479.1 |
| 2.5° | 2452.3 | 2446.6 | 2441.0 | 2445.2 |
| 5° | 2460.8 | 2452.3 | 2445.2 | 2449.5 |
| 7.5° | 2483.3 | 2469.2 | 2467.8 | 2467.8 |
| 10° | 2511.6 | 2491.8 | 2486.2 | 2486.2 |
| 12.5° | 2541.2 | 2514.4 | 2504.5 | 2504.5 |
| 15° | 2572.3 | 2534.2 | 2520.0 | 2515.8 |
| 17.5° | 2607.6 | 2553.9 | 2528.5 | 2528.5 |
| 20° | 2641.5 | 2556.8 | 2518.6 | 2517.2 |
| 22.5° | 2647.1 | 2524.3 | 2469.2 | 2466.4 |
| 25° | 2604.8 | 2448.0 | 2376.0 | 2361.9 |
| 27.5° | 2504.5 | 2329.5 | 2253.2 | 2250.4 |
| 30° | 2353.5 | 2174.2 | 2096.5 | 2088.0 |
| 32.5° | 2205.2 | 2014.6 | 1942.6 | 1942.6 |
| 35° | 2055.6 | 1869.2 | 1776.0 | 1766.2 |
| 37.5° | 1917.2 | 1715.3 | 1632.0 | 1630.6 |
| 40° | 1790.2 | 1581.2 | 1500.7 | 1488.0 |
| 42.5° | 1663.1 | 1440.0 | 1348.3 | 1345.4 |
| 45° | 1512.0 | 1286.1 | 1207.1 | 1200.0 |
| 47.5° | 1351.1 | 1147.8 | 1064.5 | 1063.1 |
| 50° | 1205.7 | 1019.3 | 936.0 | 936.0 |
| 52.5° | 1073.0 | 893.7 | 810.4 | 801.9 |
| 55° | 923.3 | 751.1 | 666.4 | 656.5 |
| 57.5° | 761.0 | 591.5 | 515.3 | 494.1 |
| 60° | 588.7 | 430.6 | 352.9 | 341.7 |
| 62.5° | 429.2 | 314.8 | 256.9 | 248.5 |
| 65° | 323.3 | 268.2 | 220.2 | 211.8 |
| 67.5° | 278.1 | 241.4 | 200.5 | 192.0 |
| 69° | 258.4 | 228.7 | 192.0 | 183.5 |
| 70° | 249.9 | 220.2 | 184.9 | 177.9 |
| 72.5° | 230.1 | 201.9 | 169.4 | 166.6 |
| 75° | 210.4 | 183.5 | 152.5 | 148.2 |
| 77.5° | 203.3 | 159.5 | 131.3 | 128.5 |
| 80° | 207.5 | 129.9 | 107.3 | 104.5 |
| 82.5° | 169.4 | 104.5 | 83.3 | 79.1 |
| 85° | 105.9 | 70.6 | 43.8 | 43.8 |
| 87.5° | 26.8 | 22.6 | 12.7 | 12.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)