

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: P148969

Luminaire Tested: **TLM-E05-LED-E1-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-41-14
Report Number: P148969
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-E05-LED-E1-RW-7030
Description: TALON MEDIUM LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

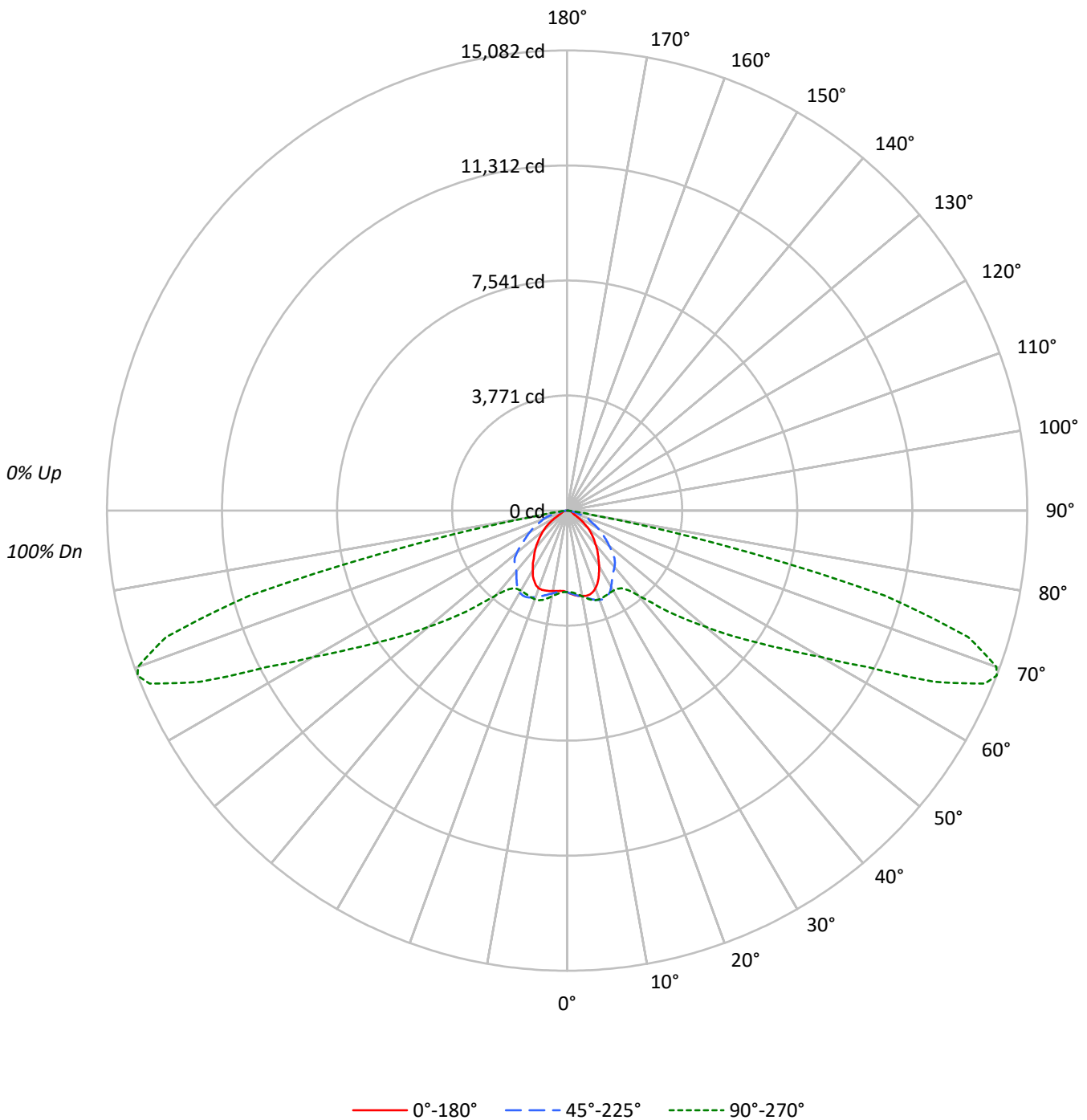
Lumens per Lamp: N/A
Luminaire Lumens: 14266.2 lumens
Efficiency: N/A
Efficacy: 112.1 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 3.07 / 1.6
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
CIE Type: Direct

Input Watts (W): 127.3
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



TEST NUMBER: P148969
CATALOG NUMBER: TLM-E05-LED-E1-RW-7030

Luminous Intensity Polar Plot





TEST NUMBER: P148969

CATALOG NUMBER: TLM-E05-LED-E1-RW-7030

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° | 34666 | 34666 | 34666 |
| 5° | 36206 | 35293 | 34382 |
| 10° | 37446 | 37566 | 35301 |
| 15° | 38301 | 40651 | 36421 |
| 20° | 37374 | 42668 | 37458 |
| 25° | 34873 | 43718 | 36441 |
| 30° | 31389 | 45386 | 33714 |
| 35° | 27883 | 49188 | 30148 |
| 40° | 24585 | 61204 | 27163 |
| 45° | 21497 | 85767 | 23731 |
| 50° | 18089 | 119562 | 20363 |
| 55° | 13044 | 169681 | 16003 |
| 60° | 7779 | 248465 | 9555 |
| 65° | 7006 | 407096 | 7006 |
| 70° | 7159 | 567736 | 7273 |
| 75° | 7626 | 540331 | 8007 |
| 80° | 7730 | 69575 | 8409 |
| 85° | 4985 | 17439 | 7023 |



TEST NUMBER: P148969

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ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 262.2 | 1.8 |
| 10°-20° | 827.1 | 5.8 |
| 20°-30° | 1340.0 | 9.4 |
| 30°-40° | 1670.0 | 11.7 |
| 40°-50° | 2086.9 | 14.6 |
| 50°-60° | 2576.9 | 18.1 |
| 60°-70° | 3201.9 | 22.4 |
| 70°-80° | 2125.6 | 14.9 |
| 80°-90° | 175.5 | 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° | 2429.4 | 17.0 |
| 0°-40° | 4099.4 | 28.7 |
| 0°-60° | 8763.2 | 61.4 |
| 0°-90° | 14266.2 | 100.0 |
| 90°-120° | 0.0 | 0.0 |
| 90°-150° | 0.0 | 0.0 |
| 90°-180° | 0.0 | 0.0 |
| 0°-180° | 14266.2 | 100.0 |

CANDELA DISTRIBUTION:

| | 0° | 45° | 90° | 135° | 180° | Flux |
|-----|------|------|-------|------|------|------|
| 0° | 2673 | 2673 | 2673 | 2673 | 2673 | |
| 5° | 2781 | 2764 | 2711 | 2668 | 2641 | 267 |
| 15° | 2853 | 2999 | 3028 | 2879 | 2713 | 798 |
| 25° | 2437 | 3104 | 3055 | 3133 | 2547 | 1114 |
| 35° | 1761 | 2594 | 3107 | 2886 | 1904 | 1103 |
| 45° | 1172 | 2184 | 4676 | 2439 | 1294 | 904 |
| 55° | 577 | 1478 | 7505 | 1732 | 708 | 514 |
| 65° | 228 | 857 | 13266 | 1090 | 228 | 230 |
| 75° | 152 | 338 | 10784 | 440 | 160 | 159 |
| 85° | 34 | 64 | 117 | 84 | 47 | 43 |
| 90° | 0 | 0 | 0 | 0 | 0 | |



TEST NUMBER: P148969

CATALOG NUMBER: TLM-E05-LED-E1-RW-7030

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 70° | 71° | 72° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 |
| 2.5° | 2734.0 | 2743.1 | 2734.0 | 2734.0 | 2726.4 | 2718.7 | 2714.2 | 2703.5 | 2697.4 | 2694.4 | 2694.4 |
| 5° | 2781.2 | 2779.6 | 2781.2 | 2781.2 | 2773.5 | 2764.4 | 2758.3 | 2749.2 | 2740.1 | 2738.5 | 2737.0 |
| 7.5° | 2816.2 | 2814.6 | 2819.2 | 2828.3 | 2823.8 | 2816.2 | 2816.2 | 2807.0 | 2800.9 | 2800.9 | 2797.9 |
| 10° | 2843.6 | 2845.1 | 2854.2 | 2867.9 | 2871.0 | 2869.4 | 2880.1 | 2877.1 | 2874.0 | 2877.1 | 2874.0 |
| 12.5° | 2861.8 | 2863.4 | 2875.5 | 2901.4 | 2918.2 | 2928.8 | 2956.2 | 2957.7 | 2959.3 | 2959.3 | 2959.3 |
| 15° | 2852.7 | 2852.7 | 2877.1 | 2925.8 | 2966.9 | 2998.8 | 3033.8 | 3039.9 | 3033.8 | 3038.4 | 3035.4 |
| 17.5° | 2799.4 | 2802.5 | 2842.0 | 2916.6 | 3000.4 | 3070.4 | 3108.4 | 3097.8 | 3087.1 | 3087.1 | 3082.6 |
| 20° | 2708.1 | 2714.2 | 2767.5 | 2872.5 | 3004.9 | 3116.0 | 3175.4 | 3140.4 | 3111.5 | 3106.9 | 3102.3 |
| 22.5° | 2595.4 | 2590.9 | 2654.8 | 2787.2 | 2969.9 | 3135.8 | 3216.5 | 3173.9 | 3122.1 | 3111.5 | 3103.9 |
| 25° | 2437.1 | 2440.2 | 2507.1 | 2654.8 | 2881.6 | 3103.9 | 3228.7 | 3207.4 | 3146.5 | 3132.8 | 3116.0 |
| 27.5° | 2263.6 | 2271.2 | 2342.7 | 2493.4 | 2744.6 | 3024.7 | 3215.0 | 3240.9 | 3193.7 | 3178.5 | 3163.2 |
| 30° | 2096.1 | 2100.7 | 2181.4 | 2342.7 | 2575.6 | 2884.7 | 3178.5 | 3277.4 | 3253.0 | 3240.9 | 3227.2 |
| 32.5° | 1918.0 | 1933.3 | 2003.3 | 2186.0 | 2441.7 | 2730.9 | 3122.1 | 3315.5 | 3324.6 | 3317.0 | 3309.4 |
| 35° | 1761.2 | 1773.4 | 1852.6 | 2044.4 | 2312.3 | 2593.9 | 3053.6 | 3356.6 | 3419.0 | 3417.5 | 3415.9 |
| 37.5° | 1619.7 | 1622.7 | 1706.4 | 1901.3 | 2184.4 | 2498.0 | 2982.1 | 3423.5 | 3534.7 | 3549.9 | 3568.2 |
| 40° | 1452.2 | 1467.4 | 1554.2 | 1764.3 | 2058.1 | 2415.8 | 2921.2 | 3513.4 | 3696.0 | 3729.5 | 3755.4 |
| 42.5° | 1318.3 | 1318.3 | 1395.9 | 1604.5 | 1908.9 | 2321.4 | 2899.9 | 3626.0 | 3887.8 | 3933.5 | 3979.2 |
| 45° | 1172.1 | 1176.7 | 1251.3 | 1441.6 | 1738.4 | 2184.4 | 2896.8 | 3750.8 | 4102.5 | 4167.9 | 4224.2 |
| 47.5° | 1033.6 | 1036.7 | 1115.8 | 1300.0 | 1561.8 | 1995.7 | 2858.8 | 3889.4 | 4327.8 | 4422.1 | 4484.6 |
| 50° | 896.6 | 892.0 | 968.2 | 1155.4 | 1405.0 | 1800.8 | 2737.0 | 4069.0 | 4607.9 | 4702.2 | 4773.8 |
| 52.5° | 727.6 | 739.8 | 822.0 | 1000.1 | 1251.3 | 1634.9 | 2488.9 | 4245.6 | 4897.1 | 5003.6 | 5101.1 |
| 55° | 576.9 | 575.4 | 668.3 | 829.6 | 1085.4 | 1478.1 | 2195.1 | 4370.4 | 5178.7 | 5302.0 | 5410.1 |
| 57.5° | 414.1 | 418.6 | 497.8 | 657.6 | 913.4 | 1338.1 | 1972.8 | 4349.1 | 5396.4 | 5542.5 | 5679.5 |
| 60° | 299.9 | 309.0 | 368.4 | 485.6 | 729.2 | 1176.7 | 1817.6 | 4102.5 | 5545.6 | 5745.0 | 5910.9 |
| 62.5° | 252.7 | 260.3 | 312.1 | 376.0 | 563.2 | 1007.7 | 1666.9 | 3706.7 | 5738.9 | 6002.2 | 6242.7 |
| 65° | 228.3 | 234.4 | 286.2 | 322.7 | 432.3 | 857.0 | 1572.5 | 3426.6 | 5993.1 | 6393.5 | 6722.3 |
| 67.5° | 205.5 | 214.6 | 260.3 | 287.7 | 366.9 | 765.7 | 1545.1 | 3384.0 | 6041.8 | 6571.6 | 7038.9 |
| 69° | 194.8 | 204.0 | 245.1 | 269.4 | 345.6 | 736.8 | 1493.3 | 3230.2 | 5723.7 | 6293.0 | 6816.6 |
| 70° | 188.8 | 196.4 | 232.9 | 258.8 | 339.5 | 709.4 | 1420.3 | 3004.9 | 5385.7 | 5959.6 | 6522.8 |
| 72.5° | 173.5 | 178.1 | 208.5 | 234.4 | 312.1 | 545.0 | 1076.2 | 2170.7 | 4020.3 | 4588.1 | 5140.6 |
| 75° | 152.2 | 156.8 | 184.2 | 210.1 | 242.0 | 337.9 | 653.0 | 1287.8 | 2467.6 | 2849.7 | 3403.8 |
| 77.5° | 130.9 | 135.5 | 158.3 | 197.9 | 191.8 | 220.7 | 398.8 | 770.3 | 1293.9 | 1484.2 | 1838.9 |
| 80° | 103.5 | 109.6 | 132.4 | 190.3 | 159.8 | 175.1 | 292.3 | 569.3 | 787.0 | 866.2 | 959.0 |
| 82.5° | 73.1 | 76.1 | 100.5 | 152.2 | 120.3 | 132.4 | 219.2 | 473.4 | 631.7 | 689.6 | 717.0 |
| 85° | 33.5 | 35.0 | 59.4 | 89.8 | 71.5 | 63.9 | 117.2 | 302.9 | 418.6 | 435.4 | 459.7 |
| 87.5° | 0.0 | 0.0 | 6.1 | 6.1 | 12.2 | 7.6 | 13.7 | 38.1 | 63.9 | 63.9 | 77.6 |
| 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: P148969

CATALOG NUMBER: TLM-E05-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

| | 73° | 74° | 75° | 76° | 77° | 78° | 79° | 80° | 81° | 82° | 83° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 |
| 2.5° | 2695.9 | 2694.4 | 2695.9 | 2695.9 | 2697.4 | 2691.3 | 2689.8 | 2688.3 | 2686.8 | 2688.3 | 2685.2 |
| 5° | 2737.0 | 2735.5 | 2735.5 | 2737.0 | 2735.5 | 2730.9 | 2729.4 | 2729.4 | 2724.8 | 2723.3 | 2723.3 |
| 7.5° | 2799.4 | 2796.4 | 2791.8 | 2794.9 | 2796.4 | 2794.9 | 2796.4 | 2791.8 | 2791.8 | 2787.2 | 2788.8 |
| 10° | 2877.1 | 2874.0 | 2872.5 | 2875.5 | 2877.1 | 2875.5 | 2877.1 | 2871.0 | 2869.4 | 2867.9 | 2864.9 |
| 12.5° | 2962.3 | 2956.2 | 2960.8 | 2960.8 | 2962.3 | 2968.4 | 2960.8 | 2963.8 | 2957.7 | 2957.7 | 2956.2 |
| 15° | 3036.9 | 3035.4 | 3038.4 | 3038.4 | 3036.9 | 3041.5 | 3039.9 | 3041.5 | 3033.8 | 3030.8 | 3038.4 |
| 17.5° | 3084.1 | 3079.5 | 3081.0 | 3079.5 | 3079.5 | 3079.5 | 3082.6 | 3082.6 | 3078.0 | 3076.5 | 3079.5 |
| 20° | 3096.3 | 3088.6 | 3087.1 | 3085.6 | 3082.6 | 3082.6 | 3084.1 | 3081.0 | 3078.0 | 3074.9 | 3078.0 |
| 22.5° | 3093.2 | 3084.1 | 3074.9 | 3070.4 | 3065.8 | 3059.7 | 3058.2 | 3055.2 | 3050.6 | 3050.6 | 3052.1 |
| 25° | 3103.9 | 3087.1 | 3073.4 | 3064.3 | 3052.1 | 3044.5 | 3038.4 | 3030.8 | 3023.2 | 3018.6 | 3020.1 |
| 27.5° | 3140.4 | 3122.1 | 3103.9 | 3085.6 | 3067.3 | 3052.1 | 3039.9 | 3026.2 | 3014.1 | 3004.9 | 3000.4 |
| 30° | 3208.9 | 3184.5 | 3163.2 | 3141.9 | 3119.1 | 3097.8 | 3078.0 | 3056.7 | 3033.8 | 3020.1 | 3008.0 |
| 32.5° | 3288.1 | 3271.3 | 3257.6 | 3233.3 | 3208.9 | 3183.0 | 3158.7 | 3140.4 | 3106.9 | 3081.0 | 3059.7 |
| 35° | 3408.3 | 3402.2 | 3394.6 | 3376.4 | 3349.0 | 3335.3 | 3315.5 | 3286.5 | 3247.0 | 3224.1 | 3192.2 |
| 37.5° | 3574.2 | 3575.8 | 3569.7 | 3562.1 | 3565.1 | 3539.2 | 3527.1 | 3524.0 | 3484.4 | 3469.2 | 3422.0 |
| 40° | 3778.2 | 3801.1 | 3820.8 | 3820.8 | 3836.1 | 3837.6 | 3834.5 | 3860.4 | 3831.5 | 3837.6 | 3787.4 |
| 42.5° | 4005.0 | 4059.8 | 4090.3 | 4113.1 | 4163.4 | 4186.2 | 4224.2 | 4280.6 | 4283.6 | 4312.5 | 4315.6 |
| 45° | 4273.0 | 4333.8 | 4391.7 | 4451.1 | 4518.0 | 4597.2 | 4676.4 | 4734.2 | 4825.5 | 4845.3 | 4910.8 |
| 47.5° | 4551.5 | 4639.8 | 4706.8 | 4782.9 | 4897.1 | 4999.1 | 5116.3 | 5235.0 | 5340.1 | 5414.6 | 5457.3 |
| 50° | 4859.0 | 4948.8 | 5046.3 | 5131.5 | 5253.3 | 5396.4 | 5559.3 | 5722.1 | 5857.6 | 5990.1 | 6096.6 |
| 52.5° | 5200.0 | 5299.0 | 5390.3 | 5501.4 | 5624.7 | 5795.2 | 5973.3 | 6197.1 | 6378.2 | 6559.4 | 6690.3 |
| 55° | 5527.3 | 5638.4 | 5722.1 | 5863.7 | 5991.6 | 6166.6 | 6387.4 | 6652.2 | 6903.4 | 7122.6 | 7300.7 |
| 57.5° | 5812.0 | 5921.6 | 6038.8 | 6160.5 | 6315.8 | 6490.9 | 6761.8 | 7063.2 | 7349.4 | 7637.1 | 7900.5 |
| 60° | 6078.3 | 6226.0 | 6353.9 | 6515.2 | 6670.5 | 6873.0 | 7195.7 | 7568.6 | 7959.8 | 8317.6 | 8580.9 |
| 62.5° | 6480.2 | 6669.0 | 6819.7 | 7019.1 | 7235.3 | 7474.3 | 7830.5 | 8241.5 | 8751.4 | 9212.7 | 9622.1 |
| 65° | 7041.9 | 7331.2 | 7574.7 | 7819.8 | 8083.2 | 8412.0 | 8797.1 | 9319.2 | 9882.5 | 10564.4 | 11104.8 |
| 67.5° | 7442.3 | 7804.6 | 8119.7 | 8427.2 | 8730.1 | 9093.9 | 9570.4 | 10182.3 | 10911.5 | 11628.5 | 12315.0 |
| 69° | 7280.9 | 7664.5 | 8014.6 | 8320.6 | 8640.3 | 9004.1 | 9468.4 | 10139.7 | 10882.6 | 11671.1 | 12351.5 |
| 70° | 6941.5 | 7355.5 | 7730.0 | 8022.3 | 8349.5 | 8710.3 | 9223.3 | 9864.2 | 10622.3 | 11438.2 | 12104.9 |
| 72.5° | 5582.1 | 6019.0 | 6388.9 | 6713.1 | 7055.6 | 7478.8 | 7935.5 | 8550.5 | 9390.8 | 10189.9 | 10783.6 |
| 75° | 3845.2 | 4253.2 | 4671.8 | 4913.8 | 5306.6 | 5608.0 | 6041.8 | 6672.0 | 7373.8 | 7961.4 | 8510.9 |
| 77.5° | 2175.3 | 2394.5 | 2711.1 | 2810.1 | 3091.7 | 3292.6 | 3522.5 | 3910.7 | 4276.0 | 4617.0 | 4715.9 |
| 80° | 989.5 | 924.0 | 956.0 | 907.3 | 960.5 | 927.1 | 889.0 | 910.3 | 905.7 | 974.2 | 910.3 |
| 82.5° | 712.4 | 615.0 | 511.5 | 441.5 | 388.2 | 328.8 | 280.1 | 251.2 | 248.1 | 260.3 | 255.7 |
| 85° | 455.2 | 415.6 | 325.8 | 261.8 | 200.9 | 155.3 | 129.4 | 117.2 | 117.2 | 124.8 | 123.3 |
| 87.5° | 79.2 | 68.5 | 42.6 | 36.5 | 32.0 | 21.3 | 13.7 | 13.7 | 12.2 | 15.2 | 19.8 |
| 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: P148969

CATALOG NUMBER: TLM-E05-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

| | 84° | 85° | 86° | 87° | 88° | 89° | 90° | 91° | 92° | 93° | 94° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 |
| 2.5° | 2685.2 | 2683.7 | 2680.7 | 2679.2 | 2679.2 | 2676.1 | 2674.6 | 2677.6 | 2679.2 | 2680.7 | 2676.1 |
| 5° | 2723.3 | 2718.7 | 2717.2 | 2718.7 | 2711.1 | 2712.7 | 2711.1 | 2712.7 | 2712.7 | 2712.7 | 2709.6 |
| 7.5° | 2784.2 | 2779.6 | 2782.7 | 2779.6 | 2775.1 | 2773.5 | 2773.5 | 2769.0 | 2762.9 | 2761.4 | 2762.9 |
| 10° | 2867.9 | 2861.8 | 2863.4 | 2864.9 | 2860.3 | 2857.3 | 2852.7 | 2846.6 | 2846.6 | 2845.1 | 2842.0 |
| 12.5° | 2957.7 | 2954.7 | 2954.7 | 2956.2 | 2954.7 | 2948.6 | 2942.5 | 2939.5 | 2937.9 | 2937.9 | 2937.9 |
| 15° | 3035.4 | 3033.8 | 3035.4 | 3033.8 | 3033.8 | 3030.8 | 3027.8 | 3023.2 | 3021.7 | 3023.2 | 3024.7 |
| 17.5° | 3079.5 | 3074.9 | 3079.5 | 3081.0 | 3079.5 | 3079.5 | 3079.5 | 3076.5 | 3074.9 | 3074.9 | 3076.5 |
| 20° | 3082.6 | 3079.5 | 3082.6 | 3087.1 | 3087.1 | 3088.6 | 3091.7 | 3093.2 | 3091.7 | 3094.7 | 3096.3 |
| 22.5° | 3052.1 | 3052.1 | 3056.7 | 3061.2 | 3068.9 | 3071.9 | 3078.0 | 3081.0 | 3084.1 | 3088.6 | 3091.7 |
| 25° | 3021.7 | 3020.1 | 3024.7 | 3033.8 | 3039.9 | 3047.5 | 3055.2 | 3061.2 | 3067.3 | 3073.4 | 3079.5 |
| 27.5° | 3000.4 | 2998.8 | 3001.9 | 3009.5 | 3017.1 | 3026.2 | 3038.4 | 3047.5 | 3055.2 | 3062.8 | 3067.3 |
| 30° | 3001.9 | 2995.8 | 2994.3 | 3000.4 | 3008.0 | 3018.6 | 3030.8 | 3041.5 | 3052.1 | 3058.2 | 3062.8 |
| 32.5° | 3046.0 | 3030.8 | 3024.7 | 3023.2 | 3026.2 | 3033.8 | 3043.0 | 3053.6 | 3061.2 | 3067.3 | 3068.9 |
| 35° | 3160.2 | 3131.3 | 3125.2 | 3105.4 | 3108.4 | 3106.9 | 3106.9 | 3113.0 | 3119.1 | 3119.1 | 3108.4 |
| 37.5° | 3391.6 | 3350.5 | 3321.6 | 3301.8 | 3282.0 | 3280.4 | 3277.4 | 3274.4 | 3259.1 | 3250.0 | 3248.5 |
| 40° | 3752.3 | 3735.6 | 3680.8 | 3665.6 | 3632.1 | 3609.3 | 3615.3 | 3603.2 | 3566.6 | 3552.9 | 3546.8 |
| 42.5° | 4279.0 | 4288.2 | 4257.7 | 4186.2 | 4157.3 | 4113.1 | 4076.6 | 4070.5 | 4037.0 | 4009.6 | 3988.3 |
| 45° | 4897.1 | 4913.8 | 4891.0 | 4839.2 | 4787.5 | 4720.5 | 4676.4 | 4591.1 | 4557.6 | 4515.0 | 4486.1 |
| 47.5° | 5531.9 | 5577.5 | 5541.0 | 5495.3 | 5466.4 | 5361.4 | 5270.0 | 5171.1 | 5120.9 | 5060.0 | 5032.6 |
| 50° | 6162.1 | 6242.7 | 6221.4 | 6178.8 | 6146.8 | 6014.4 | 5926.1 | 5789.1 | 5760.2 | 5699.3 | 5665.8 |
| 52.5° | 6792.3 | 6871.4 | 6918.6 | 6879.1 | 6856.2 | 6749.7 | 6688.8 | 6579.2 | 6497.0 | 6458.9 | 6457.4 |
| 55° | 7428.6 | 7556.5 | 7631.0 | 7617.3 | 7579.3 | 7565.6 | 7504.7 | 7494.0 | 7430.1 | 7389.0 | 7334.2 |
| 57.5° | 8051.2 | 8186.7 | 8316.1 | 8392.2 | 8424.1 | 8413.5 | 8442.4 | 8439.4 | 8448.5 | 8443.9 | 8354.1 |
| 60° | 8842.8 | 9057.4 | 9246.1 | 9366.4 | 9480.6 | 9559.7 | 9579.5 | 9696.7 | 9663.2 | 9736.3 | 9596.3 |
| 62.5° | 9960.1 | 10238.7 | 10524.8 | 10651.2 | 10791.2 | 11048.5 | 11109.4 | 11247.9 | 11269.2 | 11287.5 | 11212.9 |
| 65° | 11517.3 | 11882.7 | 12315.0 | 12508.3 | 12727.5 | 13057.9 | 13266.4 | 13414.1 | 13409.5 | 13309.0 | 13213.1 |
| 67.5° | 12846.3 | 13278.6 | 13675.9 | 14012.3 | 14339.6 | 14596.9 | 14816.1 | 15015.5 | 15026.1 | 14963.7 | 14799.3 |
| 69° | 12960.4 | 13412.5 | 13844.9 | 14249.8 | 14574.0 | 14860.2 | 15082.5 | 15237.7 | 15271.2 | 15216.4 | 15064.2 |
| 70° | 12748.8 | 13205.5 | 13675.9 | 14064.1 | 14430.9 | 14733.9 | 14972.9 | 15122.0 | 15167.7 | 15111.4 | 14968.3 |
| 72.5° | 11447.3 | 11890.3 | 12241.9 | 12698.6 | 13220.7 | 13411.0 | 13779.4 | 13901.2 | 14013.8 | 13939.2 | 13854.0 |
| 75° | 8967.6 | 9384.7 | 9748.5 | 9986.0 | 10225.0 | 10695.3 | 10783.6 | 11012.0 | 11089.6 | 11016.5 | 11110.9 |
| 77.5° | 4671.8 | 4953.4 | 5075.2 | 4884.9 | 4913.8 | 5285.3 | 5075.2 | 5321.8 | 5463.4 | 5504.5 | 5563.8 |
| 80° | 893.6 | 939.2 | 974.2 | 962.1 | 974.2 | 1001.6 | 931.6 | 893.6 | 943.8 | 933.1 | 933.1 |
| 82.5° | 263.3 | 258.8 | 258.8 | 272.5 | 271.0 | 277.0 | 277.0 | 266.4 | 274.0 | 274.0 | 275.5 |
| 85° | 120.3 | 114.2 | 112.6 | 114.2 | 112.6 | 112.6 | 117.2 | 117.2 | 126.3 | 118.7 | 120.3 |
| 87.5° | 15.2 | 13.7 | 15.2 | 15.2 | 12.2 | 12.2 | 13.7 | 15.2 | 15.2 | 13.7 | 13.7 |
| 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: P148969

CATALOG NUMBER: TLM-E05-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

| | 95° | 96° | 97° | 98° | 99° | 100° | 105° | 115° | 125° | 135° | 145° |
|-------|---------|---------|---------|---------|---------|---------|--------|--------|--------|--------|--------|
| 0° | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 | 2673.1 |
| 2.5° | 2674.6 | 2673.1 | 2673.1 | 2673.1 | 2671.5 | 2670.0 | 2668.5 | 2663.9 | 2659.4 | 2657.8 | 2650.2 |
| 5° | 2703.5 | 2705.0 | 2702.0 | 2699.0 | 2699.0 | 2699.0 | 2694.4 | 2682.2 | 2673.1 | 2668.5 | 2657.8 |
| 7.5° | 2764.4 | 2761.4 | 2756.8 | 2755.3 | 2752.2 | 2753.8 | 2744.6 | 2729.4 | 2712.7 | 2702.0 | 2685.2 |
| 10° | 2845.1 | 2842.0 | 2839.0 | 2836.0 | 2831.4 | 2831.4 | 2820.7 | 2797.9 | 2772.0 | 2753.8 | 2723.3 |
| 12.5° | 2939.5 | 2936.4 | 2933.4 | 2931.9 | 2924.2 | 2922.7 | 2907.5 | 2880.1 | 2846.6 | 2811.6 | 2767.5 |
| 15° | 3026.2 | 3021.7 | 3020.1 | 3015.6 | 3011.0 | 3009.5 | 2995.8 | 2959.3 | 2918.2 | 2878.6 | 2820.7 |
| 17.5° | 3081.0 | 3078.0 | 3073.4 | 3070.4 | 3068.9 | 3067.3 | 3047.5 | 3017.1 | 2985.1 | 2945.6 | 2875.5 |
| 20° | 3099.3 | 3100.8 | 3097.8 | 3094.7 | 3090.2 | 3087.1 | 3068.9 | 3039.9 | 3033.8 | 3012.5 | 2941.0 |
| 22.5° | 3096.3 | 3096.3 | 3094.7 | 3088.6 | 3085.6 | 3078.0 | 3052.1 | 3038.4 | 3071.9 | 3081.0 | 2989.7 |
| 25° | 3084.1 | 3082.6 | 3078.0 | 3073.4 | 3064.3 | 3053.6 | 3014.1 | 3021.7 | 3116.0 | 3132.8 | 3000.4 |
| 27.5° | 3070.4 | 3068.9 | 3061.2 | 3050.6 | 3036.9 | 3021.7 | 2971.4 | 3021.7 | 3157.1 | 3143.4 | 2956.2 |
| 30° | 3062.8 | 3056.7 | 3046.0 | 3030.8 | 3012.5 | 2995.8 | 2941.0 | 3061.2 | 3186.1 | 3106.9 | 2834.4 |
| 32.5° | 3064.3 | 3053.6 | 3038.4 | 3018.6 | 2997.3 | 2977.5 | 2939.5 | 3131.3 | 3196.7 | 3018.6 | 2662.4 |
| 35° | 3100.8 | 3084.1 | 3064.3 | 3044.5 | 3023.2 | 3004.9 | 3008.0 | 3228.7 | 3195.2 | 2886.2 | 2496.5 |
| 37.5° | 3233.3 | 3204.3 | 3190.6 | 3169.3 | 3138.9 | 3123.7 | 3184.5 | 3336.8 | 3173.9 | 2724.8 | 2350.4 |
| 40° | 3525.5 | 3501.2 | 3481.4 | 3426.6 | 3437.2 | 3425.1 | 3482.9 | 3484.4 | 3146.5 | 2589.3 | 2228.6 |
| 42.5° | 3951.8 | 3951.8 | 3909.1 | 3901.5 | 3872.6 | 3886.3 | 3912.2 | 3658.0 | 3119.1 | 2508.7 | 2108.3 |
| 45° | 4454.1 | 4492.2 | 4475.4 | 4470.8 | 4493.7 | 4521.1 | 4402.3 | 3863.5 | 3120.6 | 2438.6 | 1968.3 |
| 47.5° | 5050.8 | 5082.8 | 5099.5 | 5126.9 | 5155.9 | 5139.1 | 4894.0 | 4079.6 | 3148.0 | 2338.2 | 1788.6 |
| 50° | 5685.6 | 5763.2 | 5787.6 | 5822.6 | 5848.5 | 5853.1 | 5359.8 | 4301.9 | 3176.9 | 2154.0 | 1593.8 |
| 52.5° | 6472.6 | 6545.7 | 6571.6 | 6595.9 | 6576.1 | 6559.4 | 5816.5 | 4565.2 | 3154.1 | 1934.8 | 1427.9 |
| 55° | 7398.1 | 7411.8 | 7407.3 | 7376.8 | 7360.1 | 7268.7 | 6239.7 | 4845.3 | 2976.0 | 1732.3 | 1269.6 |
| 57.5° | 8361.7 | 8367.8 | 8313.0 | 8206.5 | 8083.2 | 7996.4 | 6646.1 | 5076.7 | 2598.5 | 1569.4 | 1112.8 |
| 60° | 9602.4 | 9477.5 | 9384.7 | 9221.8 | 9020.9 | 8835.1 | 7081.5 | 5206.1 | 2237.7 | 1412.6 | 936.2 |
| 62.5° | 11100.3 | 10850.6 | 10649.7 | 10485.3 | 10188.4 | 9861.1 | 7637.1 | 5222.8 | 2018.5 | 1263.5 | 735.2 |
| 65° | 13039.6 | 12776.2 | 12433.7 | 12152.1 | 11830.9 | 11389.5 | 8533.7 | 5102.6 | 1910.4 | 1089.9 | 537.4 |
| 67.5° | 14566.4 | 14300.0 | 13916.4 | 13601.3 | 13187.3 | 12672.7 | 9276.6 | 4892.5 | 1884.5 | 933.1 | 423.2 |
| 69° | 14832.8 | 14542.1 | 14196.5 | 13802.2 | 13362.3 | 12812.8 | 9305.5 | 4649.0 | 1845.0 | 873.8 | 388.2 |
| 70° | 14735.4 | 14432.5 | 14099.1 | 13680.5 | 13187.3 | 12622.5 | 9086.3 | 4378.0 | 1765.8 | 840.3 | 376.0 |
| 72.5° | 13642.4 | 13181.2 | 12846.3 | 12488.5 | 11888.8 | 11316.4 | 7822.8 | 3312.4 | 1374.6 | 707.8 | 351.6 |
| 75° | 10922.1 | 10527.9 | 10150.4 | 9972.3 | 9474.5 | 8988.9 | 5872.8 | 2103.8 | 898.1 | 439.9 | 275.5 |
| 77.5° | 5568.4 | 5496.8 | 5604.9 | 5524.2 | 5165.0 | 5165.0 | 3624.5 | 1117.3 | 528.2 | 264.9 | 210.1 |
| 80° | 1000.1 | 1042.7 | 1023.0 | 1065.6 | 991.0 | 1100.6 | 1274.1 | 750.5 | 374.5 | 202.5 | 172.0 |
| 82.5° | 280.1 | 283.1 | 280.1 | 281.6 | 290.7 | 306.0 | 662.2 | 645.4 | 289.2 | 152.2 | 134.0 |
| 85° | 130.9 | 132.4 | 135.5 | 135.5 | 147.7 | 150.7 | 444.5 | 462.8 | 169.0 | 83.7 | 89.8 |
| 87.5° | 15.2 | 19.8 | 19.8 | 18.3 | 21.3 | 21.3 | 82.2 | 92.9 | 22.8 | 16.7 | 27.4 |
| 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: P148969

CATALOG NUMBER: TLM-E05-LED-E1-RW-7030

CANDELA DISTRIBUTION (continued):

| | 155° | 165° | 175° | 180° |
|-------|--------|--------|--------|--------|
| 0° | 2673.1 | 2673.1 | 2673.1 | 2673.1 |
| 2.5° | 2644.1 | 2638.1 | 2632.0 | 2636.5 |
| 5° | 2653.3 | 2644.1 | 2636.5 | 2641.1 |
| 7.5° | 2677.6 | 2662.4 | 2660.9 | 2660.9 |
| 10° | 2708.1 | 2686.8 | 2680.7 | 2680.7 |
| 12.5° | 2740.1 | 2711.1 | 2700.5 | 2700.5 |
| 15° | 2773.5 | 2732.4 | 2717.2 | 2712.7 |
| 17.5° | 2811.6 | 2753.8 | 2726.4 | 2726.4 |
| 20° | 2848.1 | 2756.8 | 2715.7 | 2714.2 |
| 22.5° | 2854.2 | 2721.8 | 2662.4 | 2659.4 |
| 25° | 2808.6 | 2639.6 | 2561.9 | 2546.7 |
| 27.5° | 2700.5 | 2511.7 | 2429.5 | 2426.5 |
| 30° | 2537.6 | 2344.3 | 2260.5 | 2251.4 |
| 32.5° | 2377.8 | 2172.3 | 2094.6 | 2094.6 |
| 35° | 2216.4 | 2015.5 | 1915.0 | 1904.3 |
| 37.5° | 2067.2 | 1849.5 | 1759.7 | 1758.2 |
| 40° | 1930.2 | 1704.9 | 1618.2 | 1604.5 |
| 42.5° | 1793.2 | 1552.7 | 1453.7 | 1450.7 |
| 45° | 1630.3 | 1386.8 | 1301.5 | 1293.9 |
| 47.5° | 1456.8 | 1237.6 | 1147.8 | 1146.3 |
| 50° | 1300.0 | 1099.1 | 1009.3 | 1009.3 |
| 52.5° | 1156.9 | 963.6 | 873.8 | 864.6 |
| 55° | 995.6 | 809.8 | 718.5 | 707.8 |
| 57.5° | 820.5 | 637.8 | 555.6 | 532.8 |
| 60° | 634.8 | 464.3 | 380.6 | 368.4 |
| 62.5° | 462.8 | 339.5 | 277.0 | 267.9 |
| 65° | 348.6 | 289.2 | 237.5 | 228.3 |
| 67.5° | 299.9 | 260.3 | 216.2 | 207.0 |
| 69° | 278.6 | 246.6 | 207.0 | 197.9 |
| 70° | 269.4 | 237.5 | 199.4 | 191.8 |
| 72.5° | 248.1 | 217.7 | 182.7 | 179.6 |
| 75° | 226.8 | 197.9 | 164.4 | 159.8 |
| 77.5° | 219.2 | 172.0 | 141.6 | 138.5 |
| 80° | 223.8 | 140.0 | 115.7 | 112.6 |
| 82.5° | 182.7 | 112.6 | 89.8 | 85.2 |
| 85° | 114.2 | 76.1 | 47.2 | 47.2 |
| 87.5° | 28.9 | 24.4 | 13.7 | 13.7 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)