

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: STREETWORKS

Report Number: P149090

Luminaire Tested: **TMU-E05-LED-E-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149090
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: STREETWORKS
Catalog Number: TMU-E05-LED-E-U-RW
Description: TALON MEDIUM LED AREA LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15619.7 lumens
Efficiency: N/A
Efficacy: 122.7 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B4 - U0 - G2

Input Watts (W): 127.3
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: 28.75 FT

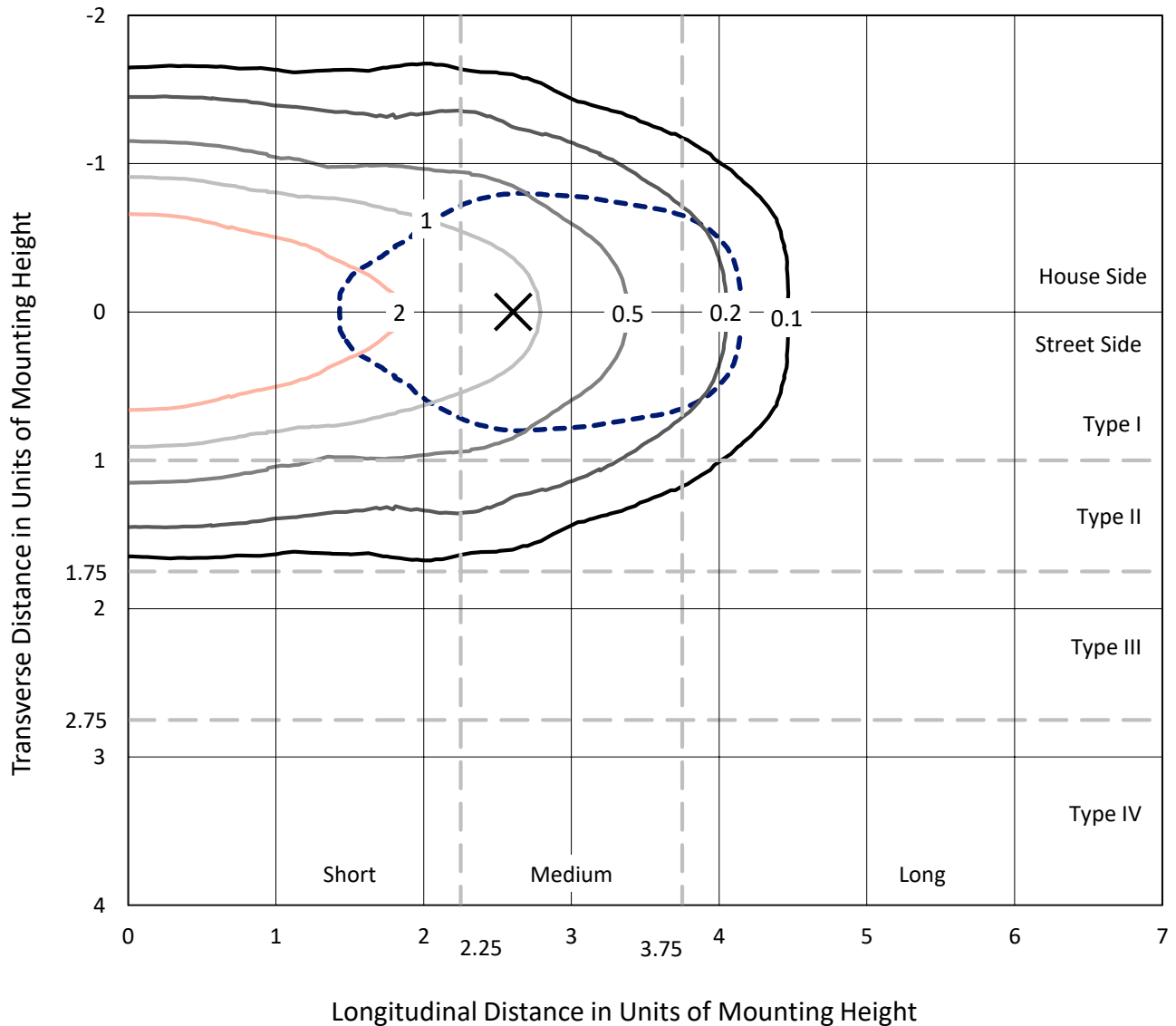


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

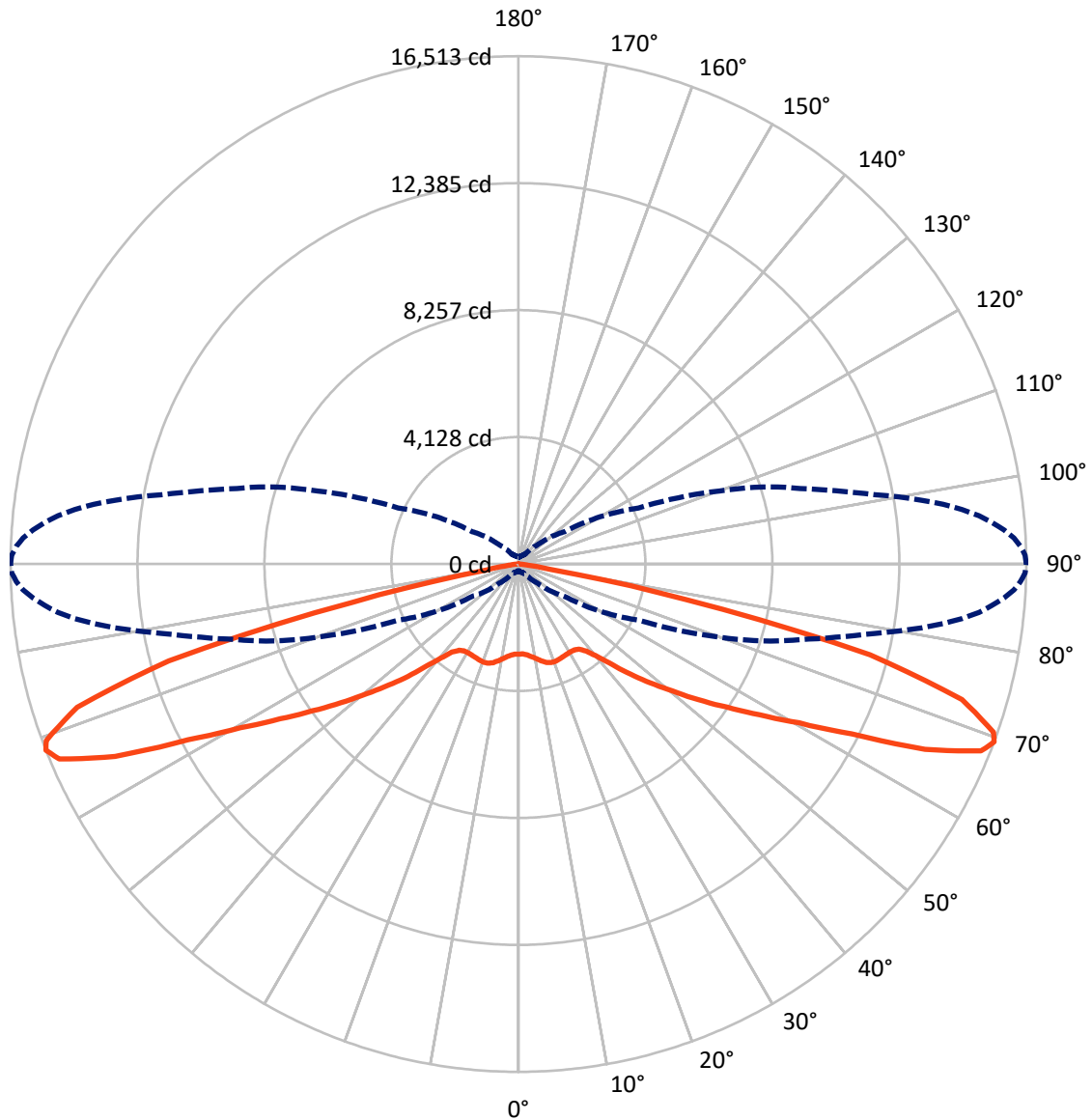


Based on 25 foot mounting height. Maximum calculated value = 4.8 fc
 Type V - Medium - Full Cutoff

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CATALOG NUMBER: TMU-E05-LED-E-U-RW

Luminous Intensity Polar Plot



— Vertical Plane Through 90-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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CATALOG NUMBER: TMU-E05-LED-E-U-RW

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 7809.8 | 0.0 | 7809.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 7809.8 | 0.0 | 7809.8 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 15619.7 | 0.0 | 15619.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 287.1 | 1.8 |
| 10°-20° | 905.6 | 5.8 |
| 20°-30° | 1467.2 | 9.4 |
| 30°-40° | 1828.5 | 11.7 |
| 40°-50° | 2284.9 | 14.6 |
| 50°-60° | 2821.4 | 18.1 |
| 60°-70° | 3505.7 | 22.4 |
| 70°-80° | 2327.3 | 14.9 |
| 80°-90° | 192.1 | 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°-90° | 15619.7 | 100.0 |
| 0°-180° | 15619.7 | 100.0 |



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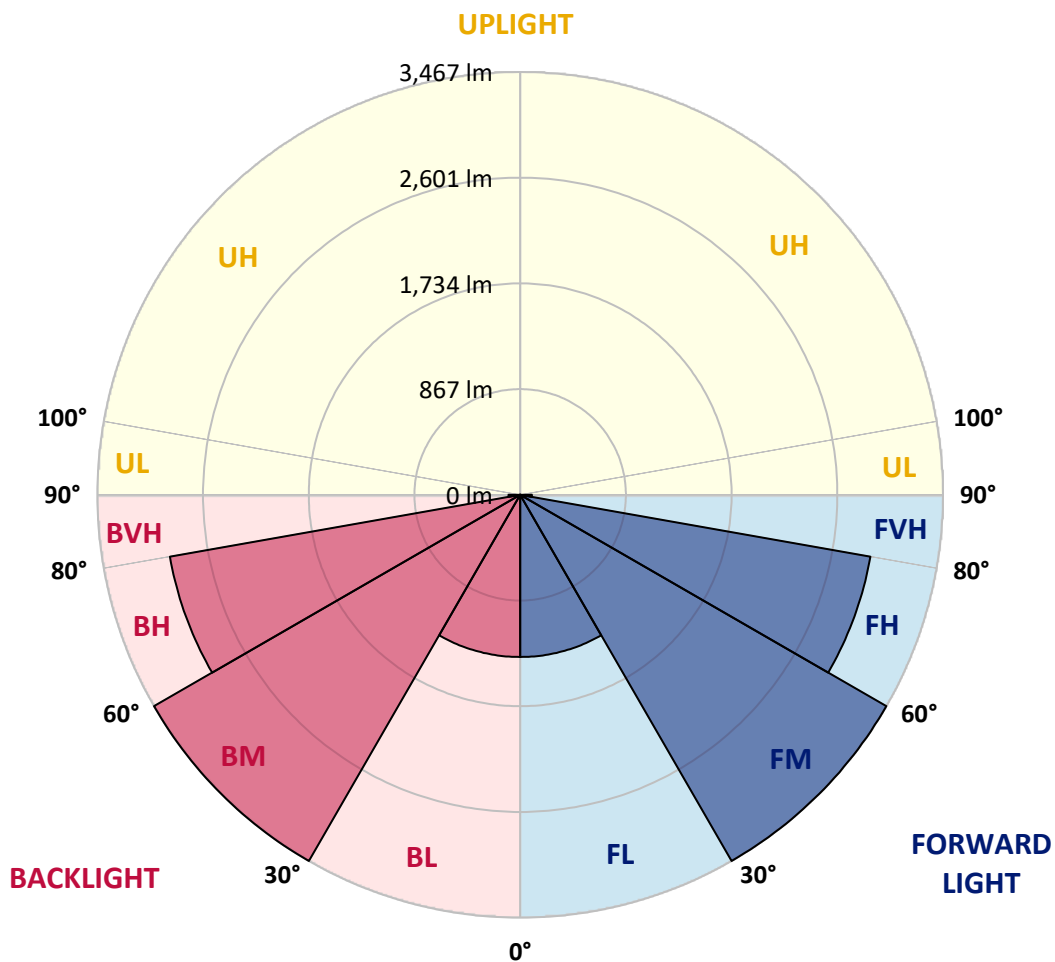
CATALOG NUMBER: TMU-E05-LED-E-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1329.9 | 8.5 | | | |
| FM | (30°-60°) | 3467.4 | 22.2 | | | |
| FH | (60°-80°) | 2916.5 | 18.7 | | | G2/5000 |
| FVH | (80°-90°) | 96.1 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 1329.9 | 8.5 | B3/2500 | | |
| BM | (30°-60°) | 3467.4 | 22.2 | B3/5000 | | |
| BH | (60°-80°) | 2916.5 | 18.7 | B4/5000 | | G2/5000 |
| BVH | (80°-90°) | 96.1 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B4-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 |
| 2.5° | 2940.0 | 2942.5 | 2940.8 | 2944.1 | 2943.4 | 2943.4 | 2941.7 | 2938.4 | 2937.9 | 2937.5 | 2937.1 |
| 5° | 2968.4 | 2965.0 | 2970.0 | 2975.0 | 2973.4 | 2974.2 | 2973.4 | 2973.4 | 2973.0 | 2972.7 | 2972.3 |
| 7.5° | 2998.3 | 2997.5 | 3000.9 | 3014.2 | 3015.9 | 3020.8 | 3026.6 | 3030.8 | 3031.0 | 3031.2 | 3031.3 |
| 10° | 3024.1 | 3025.0 | 3033.4 | 3052.5 | 3062.5 | 3078.4 | 3094.1 | 3106.6 | 3107.6 | 3108.5 | 3109.4 |
| 12.5° | 3045.0 | 3045.8 | 3058.3 | 3088.4 | 3112.5 | 3142.5 | 3176.7 | 3195.8 | 3197.5 | 3199.1 | 3200.8 |
| 15° | 3046.6 | 3049.1 | 3070.8 | 3120.0 | 3168.3 | 3217.5 | 3258.4 | 3284.2 | 3285.5 | 3286.8 | 3288.2 |
| 17.5° | 3025.0 | 3026.6 | 3063.4 | 3135.8 | 3216.6 | 3293.4 | 3335.8 | 3347.5 | 3348.0 | 3348.5 | 3349.0 |
| 20° | 2968.4 | 2972.5 | 3024.2 | 3131.6 | 3255.0 | 3355.0 | 3399.2 | 3383.3 | 3381.7 | 3380.2 | 3378.6 |
| 22.5° | 2876.7 | 2875.9 | 2943.4 | 3088.4 | 3262.5 | 3403.3 | 3442.5 | 3400.8 | 3395.9 | 3391.0 | 3386.1 |
| 25° | 2728.3 | 2738.4 | 2817.5 | 2990.9 | 3220.0 | 3414.2 | 3473.4 | 3410.0 | 3402.9 | 3395.8 | 3388.7 |
| 27.5° | 2567.5 | 2573.4 | 2657.5 | 2843.4 | 3120.8 | 3376.7 | 3488.4 | 3428.3 | 3420.4 | 3412.5 | 3404.6 |
| 30° | 2380.0 | 2387.5 | 2477.5 | 2671.6 | 2961.6 | 3280.0 | 3484.2 | 3470.0 | 3460.8 | 3451.5 | 3442.3 |
| 32.5° | 2196.6 | 2205.0 | 2285.8 | 2498.3 | 2794.1 | 3147.5 | 3459.2 | 3529.2 | 3519.6 | 3510.2 | 3500.6 |
| 35° | 2006.6 | 2019.2 | 2117.5 | 2332.5 | 2632.5 | 3000.0 | 3420.8 | 3605.0 | 3599.7 | 3594.5 | 3589.2 |
| 37.5° | 1849.2 | 1851.7 | 1946.6 | 2172.5 | 2482.5 | 2859.2 | 3370.0 | 3700.8 | 3704.6 | 3708.5 | 3712.3 |
| 40° | 1673.4 | 1689.2 | 1784.2 | 2022.5 | 2346.6 | 2740.0 | 3321.6 | 3830.8 | 3850.8 | 3870.7 | 3890.6 |
| 42.5° | 1515.8 | 1517.5 | 1614.2 | 1860.0 | 2199.2 | 2644.2 | 3295.0 | 3987.5 | 4030.1 | 4072.7 | 4115.3 |
| 45° | 1350.0 | 1356.6 | 1444.2 | 1681.6 | 2029.2 | 2530.8 | 3294.2 | 4168.4 | 4236.4 | 4304.4 | 4372.4 |
| 47.5° | 1193.4 | 1195.8 | 1288.4 | 1509.2 | 1834.2 | 2372.5 | 3288.4 | 4362.5 | 4455.1 | 4547.7 | 4640.2 |
| 50° | 1043.4 | 1040.8 | 1131.6 | 1344.2 | 1641.6 | 2165.0 | 3237.5 | 4582.5 | 4699.4 | 4816.3 | 4933.2 |
| 52.5° | 871.7 | 883.4 | 977.5 | 1180.8 | 1466.6 | 1954.2 | 3089.2 | 4823.3 | 4963.1 | 5103.0 | 5242.8 |
| 55° | 703.3 | 708.4 | 809.2 | 999.2 | 1289.2 | 1757.5 | 2830.8 | 5045.0 | 5209.8 | 5374.7 | 5539.5 |
| 57.5° | 518.3 | 533.3 | 621.6 | 809.2 | 1109.2 | 1591.6 | 2502.5 | 5160.0 | 5360.6 | 5561.2 | 5761.7 |
| 60° | 365.8 | 377.5 | 455.8 | 613.4 | 911.6 | 1417.5 | 2220.0 | 5095.8 | 5356.5 | 5617.2 | 5877.8 |
| 62.5° | 285.0 | 294.2 | 356.7 | 459.2 | 710.8 | 1243.3 | 2017.5 | 4888.3 | 5243.0 | 5597.6 | 5952.3 |
| 65° | 250.0 | 258.4 | 315.0 | 367.5 | 530.8 | 1065.8 | 1906.7 | 4669.2 | 5138.0 | 5606.9 | 6075.7 |
| 67.5° | 225.8 | 235.8 | 285.0 | 321.6 | 432.5 | 930.0 | 1877.5 | 4530.8 | 5061.8 | 5592.8 | 6123.8 |
| 69° | 215.0 | 225.0 | 269.2 | 300.0 | 401.6 | 881.7 | 1827.5 | 4313.4 | 4841.3 | 5369.2 | 5897.1 |
| 70° | 208.4 | 216.6 | 257.5 | 289.2 | 391.7 | 848.4 | 1744.2 | 4041.6 | 4560.1 | 5078.5 | 5596.9 |
| 72.5° | 193.4 | 197.5 | 233.3 | 264.2 | 363.4 | 685.8 | 1341.6 | 3001.7 | 3451.1 | 3900.5 | 4349.9 |
| 75° | 170.9 | 175.9 | 209.2 | 239.2 | 283.4 | 425.8 | 849.2 | 1856.6 | 2192.2 | 2527.7 | 2863.2 |
| 77.5° | 147.5 | 151.6 | 180.8 | 228.4 | 220.0 | 265.8 | 507.5 | 1033.3 | 1227.9 | 1422.5 | 1617.1 |
| 80° | 118.3 | 123.4 | 149.2 | 226.6 | 181.6 | 206.7 | 365.0 | 722.5 | 775.0 | 827.5 | 880.0 |
| 82.5° | 86.6 | 90.8 | 116.6 | 183.4 | 139.2 | 155.8 | 278.4 | 612.5 | 630.8 | 649.0 | 667.3 |
| 85° | 44.2 | 45.0 | 74.2 | 111.6 | 88.3 | 80.8 | 156.6 | 419.2 | 430.9 | 442.5 | 454.2 |
| 87.5° | 7.5 | 7.5 | 16.7 | 19.2 | 21.6 | 13.3 | 20.0 | 71.7 | 73.9 | 76.2 | 78.4 |
| 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: TMU-E05-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|---------|---------|---------|---------|
| 0° | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 |
| 2.5° | 2936.7 | 2936.2 | 2934.8 | 2935.1 | 2936.2 | 2935.6 | 2936.7 | 2936.9 | 2937.8 | 2934.7 | 2934.0 |
| 5° | 2972.0 | 2971.7 | 2971.5 | 2971.4 | 2972.0 | 2971.8 | 2972.5 | 2973.9 | 2973.5 | 2971.5 | 2971.1 |
| 7.5° | 3031.5 | 3031.7 | 3032.5 | 3031.6 | 3033.3 | 3032.5 | 3030.9 | 3033.5 | 3035.4 | 3035.5 | 3037.4 |
| 10° | 3110.3 | 3111.2 | 3114.2 | 3113.8 | 3116.6 | 3116.2 | 3116.6 | 3119.5 | 3121.5 | 3121.8 | 3123.8 |
| 12.5° | 3202.5 | 3204.2 | 3205.6 | 3207.2 | 3210.3 | 3208.5 | 3212.5 | 3214.2 | 3216.6 | 3221.7 | 3219.2 |
| 15° | 3289.5 | 3290.8 | 3295.4 | 3295.6 | 3298.5 | 3299.6 | 3303.4 | 3304.8 | 3305.5 | 3309.5 | 3310.2 |
| 17.5° | 3349.5 | 3350.0 | 3351.7 | 3350.8 | 3353.4 | 3352.5 | 3355.0 | 3356.4 | 3358.5 | 3360.7 | 3364.5 |
| 20° | 3377.0 | 3375.4 | 3374.5 | 3373.6 | 3371.8 | 3369.3 | 3370.0 | 3371.2 | 3371.5 | 3373.5 | 3376.4 |
| 22.5° | 3381.2 | 3376.2 | 3371.2 | 3367.8 | 3362.7 | 3358.4 | 3354.2 | 3354.5 | 3354.9 | 3354.3 | 3356.3 |
| 25° | 3381.7 | 3374.6 | 3366.7 | 3357.1 | 3350.0 | 3340.4 | 3332.5 | 3331.8 | 3329.5 | 3329.6 | 3330.7 |
| 27.5° | 3396.7 | 3388.8 | 3377.6 | 3366.6 | 3351.3 | 3338.6 | 3325.8 | 3321.3 | 3316.8 | 3314.0 | 3312.8 |
| 30° | 3433.0 | 3423.8 | 3410.5 | 3396.4 | 3379.8 | 3359.9 | 3341.6 | 3336.0 | 3329.5 | 3323.8 | 3319.0 |
| 32.5° | 3491.2 | 3481.6 | 3467.0 | 3452.3 | 3430.2 | 3410.5 | 3392.5 | 3383.3 | 3374.1 | 3364.2 | 3355.0 |
| 35° | 3584.0 | 3578.7 | 3565.8 | 3552.9 | 3536.7 | 3521.2 | 3505.0 | 3494.7 | 3479.3 | 3471.5 | 3460.3 |
| 37.5° | 3716.2 | 3720.0 | 3720.0 | 3721.7 | 3716.7 | 3709.2 | 3697.5 | 3686.7 | 3681.7 | 3660.8 | 3647.5 |
| 40° | 3910.5 | 3930.4 | 3948.6 | 3962.8 | 3975.2 | 3987.6 | 3998.3 | 3992.0 | 3994.0 | 3988.5 | 3980.5 |
| 42.5° | 4157.8 | 4200.4 | 4239.3 | 4278.3 | 4306.3 | 4350.2 | 4380.8 | 4390.5 | 4415.1 | 4424.8 | 4442.8 |
| 45° | 4440.4 | 4508.4 | 4573.6 | 4634.0 | 4690.2 | 4753.0 | 4814.2 | 4859.6 | 4909.4 | 4965.6 | 5022.0 |
| 47.5° | 4732.8 | 4825.4 | 4921.7 | 5000.4 | 5081.6 | 5174.6 | 5255.8 | 5324.3 | 5413.7 | 5496.3 | 5587.4 |
| 50° | 5050.2 | 5167.1 | 5276.6 | 5373.8 | 5478.3 | 5585.4 | 5696.6 | 5797.3 | 5918.0 | 6050.3 | 6193.5 |
| 52.5° | 5382.7 | 5522.5 | 5649.3 | 5771.2 | 5893.8 | 6016.5 | 6135.0 | 6277.1 | 6426.0 | 6600.7 | 6779.5 |
| 55° | 5704.3 | 5869.2 | 6013.0 | 6148.5 | 6289.0 | 6426.2 | 6548.4 | 6738.5 | 6921.2 | 7129.7 | 7363.1 |
| 57.5° | 5962.3 | 6162.9 | 6328.8 | 6489.7 | 6648.2 | 6794.1 | 6944.2 | 7158.7 | 7391.5 | 7635.2 | 7931.3 |
| 60° | 6138.5 | 6399.2 | 6611.0 | 6804.5 | 6998.8 | 7182.3 | 7355.0 | 7635.3 | 7912.3 | 8215.2 | 8583.8 |
| 62.5° | 6307.0 | 6661.6 | 6938.0 | 7201.8 | 7464.0 | 7699.5 | 7914.2 | 8266.8 | 8628.7 | 9003.0 | 9441.5 |
| 65° | 6544.5 | 7013.4 | 7420.3 | 7788.2 | 8151.0 | 8497.2 | 8818.3 | 9265.2 | 9722.0 | 10214.7 | 10738.2 |
| 67.5° | 6654.8 | 7185.8 | 7715.8 | 8211.7 | 8672.5 | 9110.8 | 9523.4 | 10063.5 | 10601.2 | 11172.2 | 11804.8 |
| 69° | 6425.0 | 6952.9 | 7519.5 | 8061.1 | 8570.2 | 9035.1 | 9481.6 | 10033.2 | 10592.2 | 11175.3 | 11813.5 |
| 70° | 6115.3 | 6633.8 | 7205.6 | 7771.8 | 8258.6 | 8743.0 | 9205.8 | 9753.0 | 10319.3 | 10904.0 | 11572.0 |
| 72.5° | 4799.4 | 5248.8 | 5806.5 | 6355.9 | 6844.5 | 7330.6 | 7780.0 | 8340.0 | 8910.0 | 9524.2 | 10156.6 |
| 75° | 3198.7 | 3534.2 | 3949.7 | 4459.3 | 4907.3 | 5337.0 | 5772.5 | 6246.2 | 6802.3 | 7308.5 | 7887.2 |
| 77.5° | 1811.7 | 2006.2 | 2247.6 | 2579.0 | 2900.5 | 3157.8 | 3468.3 | 3691.2 | 4014.0 | 4292.7 | 4587.2 |
| 80° | 932.5 | 985.0 | 1057.0 | 1136.5 | 1181.8 | 1174.7 | 1220.8 | 1175.2 | 1185.4 | 1148.0 | 1108.2 |
| 82.5° | 685.5 | 703.8 | 736.3 | 752.3 | 750.7 | 698.2 | 642.5 | 565.2 | 497.0 | 425.5 | 359.8 |
| 85° | 465.8 | 477.5 | 485.7 | 498.0 | 494.5 | 471.8 | 421.7 | 354.5 | 289.0 | 231.8 | 185.5 |
| 87.5° | 80.7 | 82.9 | 82.3 | 89.3 | 89.5 | 83.1 | 68.4 | 58.3 | 49.2 | 36.6 | 25.8 |
| 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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CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 | 2926.7 |
| 2.5° | 2933.3 | 2933.4 | 2935.0 | 2933.4 | 2933.4 | 2933.3 | 2932.5 | 2934.1 | 2933.3 | 2930.8 | 2928.3 |
| 5° | 2971.6 | 2969.1 | 2968.4 | 2970.0 | 2971.7 | 2968.4 | 2970.8 | 2973.4 | 2969.1 | 2970.0 | 2968.3 |
| 7.5° | 3035.9 | 3035.0 | 3034.2 | 3035.8 | 3035.8 | 3035.0 | 3035.9 | 3033.3 | 3031.6 | 3034.2 | 3036.7 |
| 10° | 3121.6 | 3120.9 | 3122.5 | 3122.5 | 3125.8 | 3124.1 | 3123.4 | 3125.9 | 3124.2 | 3122.5 | 3123.3 |
| 12.5° | 3222.5 | 3220.0 | 3224.1 | 3224.2 | 3226.6 | 3226.6 | 3225.8 | 3226.7 | 3225.8 | 3223.3 | 3221.7 |
| 15° | 3312.5 | 3309.2 | 3310.0 | 3316.7 | 3315.8 | 3317.5 | 3317.5 | 3315.8 | 3315.0 | 3314.2 | 3315.0 |
| 17.5° | 3366.6 | 3365.0 | 3365.0 | 3368.4 | 3370.8 | 3370.0 | 3370.0 | 3370.0 | 3369.2 | 3370.0 | 3371.7 |
| 20° | 3376.6 | 3376.6 | 3377.5 | 3380.8 | 3385.0 | 3382.5 | 3382.5 | 3384.2 | 3382.5 | 3384.2 | 3385.0 |
| 22.5° | 3357.5 | 3359.2 | 3360.8 | 3365.0 | 3365.8 | 3365.8 | 3365.8 | 3366.7 | 3368.4 | 3368.3 | 3370.0 |
| 25° | 3330.8 | 3332.5 | 3335.0 | 3338.4 | 3341.6 | 3341.7 | 3341.7 | 3343.4 | 3343.3 | 3344.2 | 3345.0 |
| 27.5° | 3310.8 | 3312.5 | 3315.0 | 3318.4 | 3322.5 | 3322.5 | 3322.5 | 3324.2 | 3324.2 | 3325.0 | 3326.7 |
| 30° | 3313.4 | 3310.0 | 3312.5 | 3314.2 | 3316.7 | 3316.6 | 3315.8 | 3316.6 | 3317.5 | 3317.5 | 3318.3 |
| 32.5° | 3349.2 | 3341.7 | 3339.2 | 3338.4 | 3339.2 | 3336.6 | 3335.8 | 3334.2 | 3332.5 | 3332.5 | 3331.7 |
| 35° | 3444.2 | 3432.5 | 3431.6 | 3425.0 | 3418.4 | 3411.6 | 3412.5 | 3407.5 | 3409.2 | 3405.0 | 3401.7 |
| 37.5° | 3639.2 | 3625.8 | 3634.2 | 3620.0 | 3610.8 | 3604.2 | 3596.7 | 3586.6 | 3580.8 | 3588.4 | 3588.3 |
| 40° | 3988.4 | 3979.2 | 3976.7 | 3979.2 | 3970.8 | 3975.0 | 3956.6 | 3951.6 | 3940.8 | 3948.4 | 3958.3 |
| 42.5° | 4470.8 | 4465.0 | 4496.7 | 4502.5 | 4505.8 | 4510.8 | 4514.2 | 4486.6 | 4485.8 | 4480.0 | 4463.3 |
| 45° | 5066.6 | 5101.6 | 5100.0 | 5138.4 | 5140.0 | 5128.4 | 5133.4 | 5120.8 | 5115.8 | 5097.5 | 5120.0 |
| 47.5° | 5679.2 | 5745.8 | 5770.8 | 5779.2 | 5810.8 | 5818.4 | 5788.4 | 5778.4 | 5795.8 | 5765.8 | 5770.0 |
| 50° | 6336.6 | 6408.3 | 6466.6 | 6505.8 | 6528.4 | 6530.0 | 6507.5 | 6502.5 | 6518.4 | 6461.6 | 6488.3 |
| 52.5° | 6983.4 | 7091.6 | 7201.7 | 7260.0 | 7301.7 | 7305.0 | 7322.5 | 7301.7 | 7310.0 | 7296.6 | 7323.3 |
| 55° | 7620.8 | 7808.3 | 7937.5 | 8051.6 | 8124.2 | 8186.6 | 8192.5 | 8215.0 | 8216.6 | 8244.2 | 8216.7 |
| 57.5° | 8244.2 | 8448.4 | 8673.4 | 8875.8 | 8988.4 | 9059.2 | 9125.8 | 9216.6 | 9236.6 | 9225.8 | 9243.3 |
| 60° | 8980.0 | 9295.8 | 9601.7 | 9835.0 | 10029.2 | 10215.0 | 10315.0 | 10457.5 | 10480.0 | 10541.7 | 10488.3 |
| 62.5° | 9910.0 | 10368.4 | 10783.3 | 11097.5 | 11392.5 | 11681.6 | 11900.0 | 12010.0 | 12076.6 | 12205.8 | 12163.3 |
| 65° | 11336.7 | 11886.6 | 12435.8 | 12885.8 | 13299.2 | 13643.4 | 13975.0 | 14133.4 | 14308.4 | 14491.7 | 14525.0 |
| 67.5° | 12511.7 | 13192.5 | 13811.7 | 14360.0 | 14860.8 | 15243.3 | 15588.3 | 15862.5 | 16075.8 | 16210.8 | 16221.7 |
| 69° | 12565.0 | 13272.5 | 13945.0 | 14533.3 | 15055.8 | 15462.5 | 15825.8 | 16130.8 | 16338.4 | 16476.6 | 16513.3 |
| 70° | 12310.0 | 13034.2 | 13750.8 | 14345.0 | 14880.0 | 15295.8 | 15680.8 | 15971.6 | 16203.4 | 16344.2 | 16393.3 |
| 72.5° | 10875.8 | 11649.2 | 12415.0 | 12935.8 | 13482.5 | 13977.5 | 14285.8 | 14582.5 | 14909.2 | 14951.6 | 15086.7 |
| 75° | 8573.4 | 9223.3 | 9817.5 | 10215.8 | 10672.5 | 11116.6 | 11419.2 | 11497.5 | 11668.4 | 11883.4 | 11806.7 |
| 77.5° | 4968.4 | 5168.4 | 5551.6 | 5650.0 | 5566.6 | 5760.0 | 5824.2 | 5687.5 | 5680.8 | 5806.7 | 5556.7 |
| 80° | 1100.8 | 1038.4 | 1116.7 | 1058.4 | 1060.0 | 1061.6 | 1044.2 | 1037.5 | 1050.0 | 1037.5 | 1020.0 |
| 82.5° | 305.0 | 295.0 | 296.6 | 293.4 | 299.2 | 295.0 | 292.5 | 299.2 | 298.4 | 297.5 | 303.3 |
| 85° | 146.6 | 145.0 | 142.5 | 141.6 | 138.4 | 134.2 | 127.5 | 127.5 | 130.8 | 125.8 | 128.3 |
| 87.5° | 19.2 | 18.3 | 18.4 | 21.7 | 19.2 | 15.8 | 15.8 | 15.8 | 15.0 | 15.0 | 15.0 |
| 90° | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 | 0.0 |

(END OF REPORT)