

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: P149096

Luminaire Tested: **TMU-F05-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P149096
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-F05-LED-E-U-RW-7050
Description: TALON MEDIUM LED AREA 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 lumens
Efficiency: N/A
Efficacy: 99.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

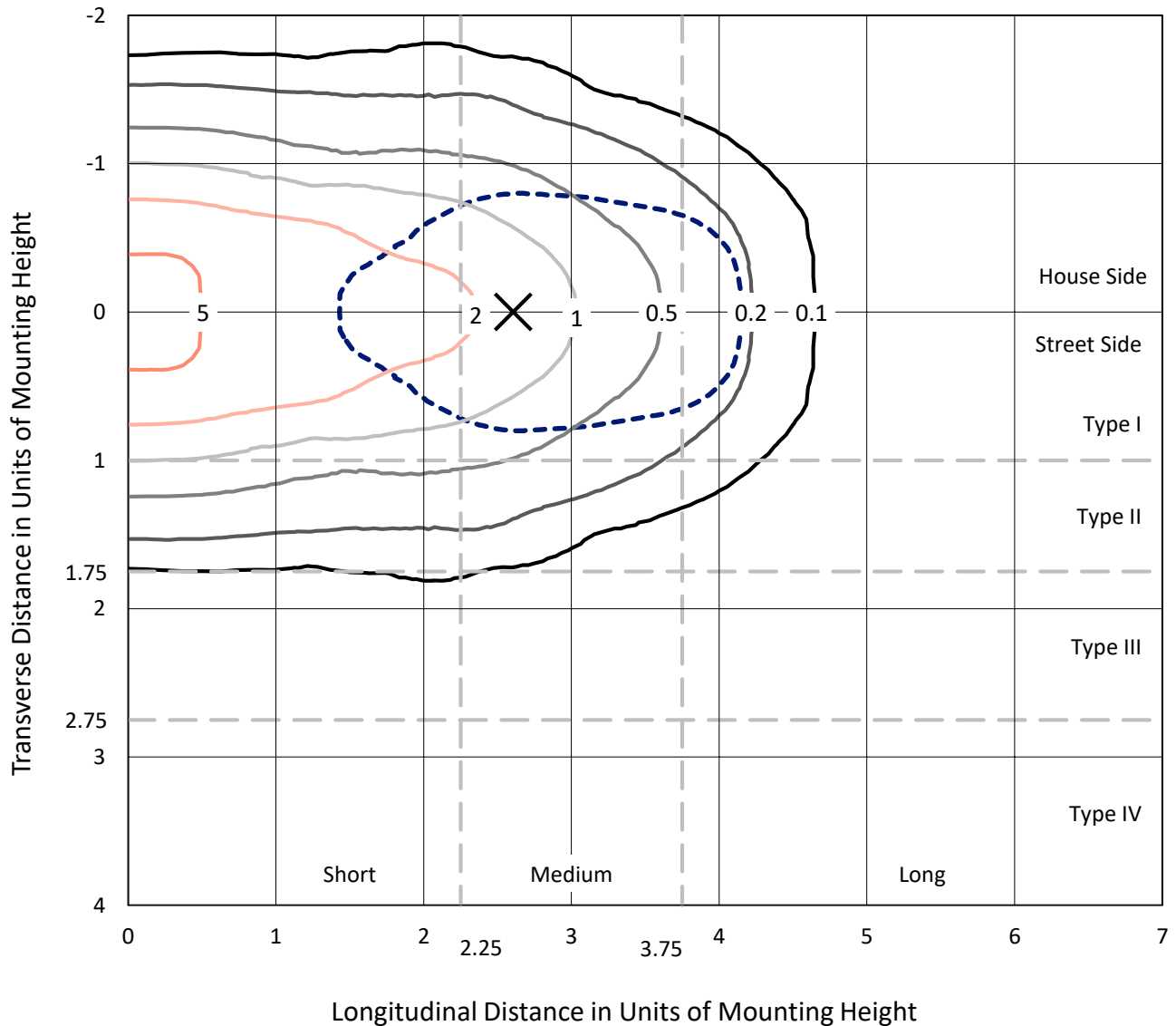
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

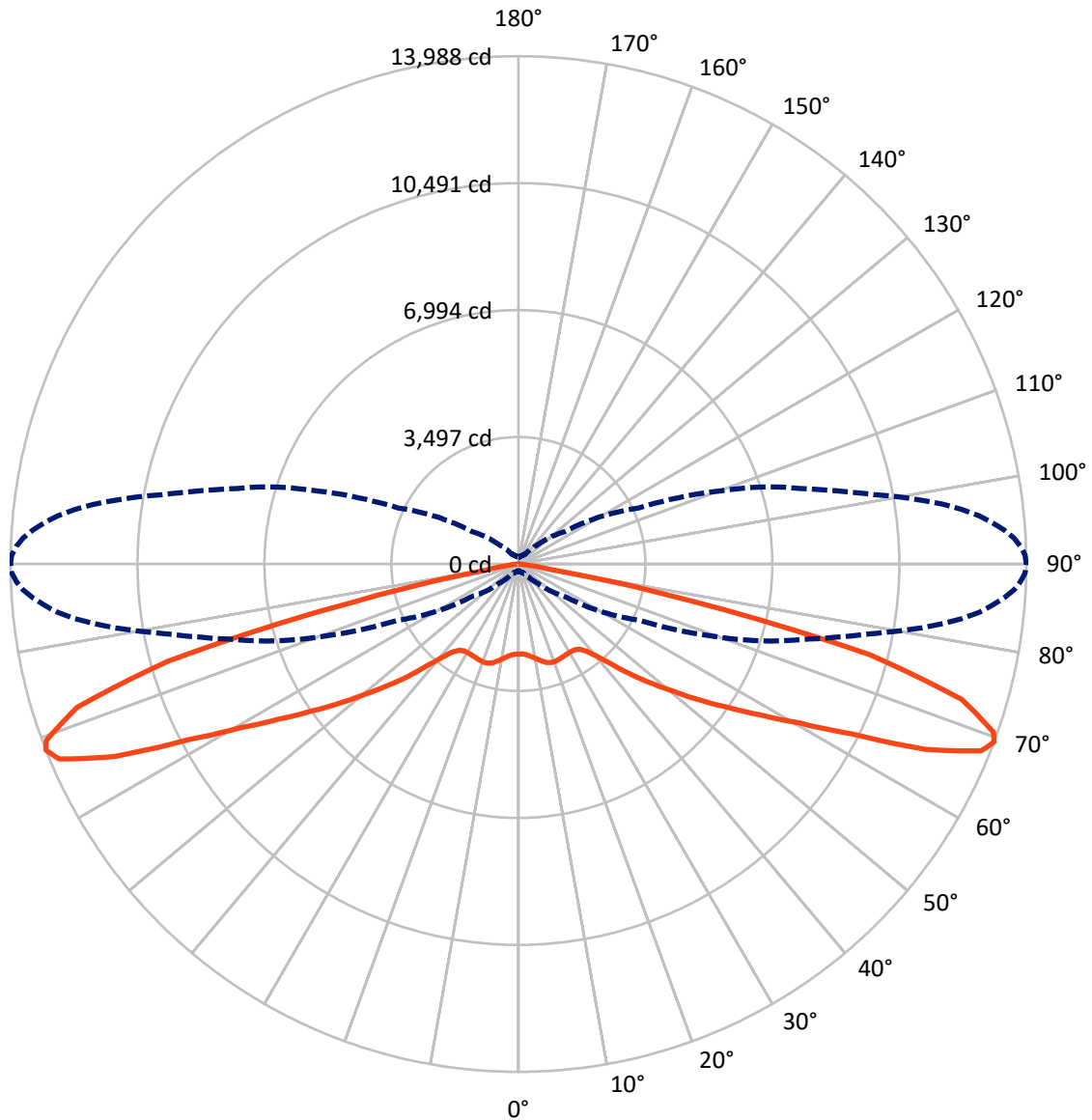
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6.3 fc
 Type V - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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



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FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6615.5 | 0.0 | 6615.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6615.5 | 0.0 | 6615.5 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 13231.0 | 0.0 | 13231.0 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

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°-90° | 13231.0 | 100.0 |
| 0°-180° | 13231.0 | 100.0 |



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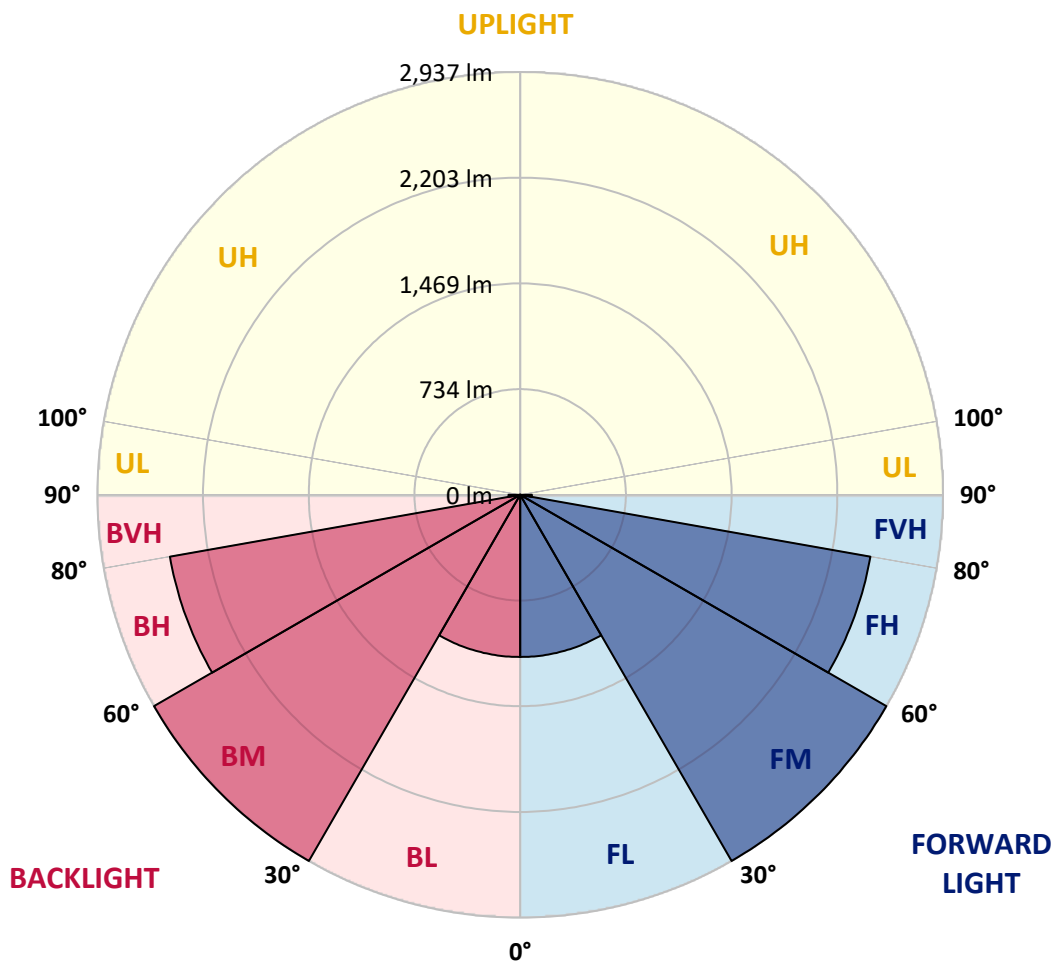
CATALOG NUMBER: TMU-F05-LED-E-U-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1126.5 | 8.5 | | | |
| FM | (30°-60°) | 2937.1 | 22.2 | | | |
| FH | (60°-80°) | 2470.5 | 18.7 | | | G2/5000 |
| FVH | (80°-90°) | 81.4 | 0.6 | | | G1/100 |
| BL | (0°-30°) | 1126.5 | 8.5 | B3/2500 | | |
| BM | (30°-60°) | 2937.1 | 22.2 | B3/5000 | | |
| BH | (60°-80°) | 2470.5 | 18.7 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 81.4 | 0.6 | | | G1/100 |
| UL | (90°-100°) | 0.0 | 0.0 | | U0/0 | |
| UH | (100°-180°) | 0.0 | 0.0 | | U0/0 | |

BUG Rating: B3-U0-G2

Type V Medium





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CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 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 | 2492.6 | 2491.1 | 2494.0 | 2493.2 | 2493.2 | 2491.8 | 2489.0 | 2488.6 | 2488.3 | 2487.9 |
| 5° | 2514.4 | 2511.6 | 2515.8 | 2520.0 | 2518.6 | 2519.4 | 2518.6 | 2518.6 | 2518.4 | 2518.1 | 2517.8 |
| 7.5° | 2539.8 | 2539.1 | 2541.9 | 2553.2 | 2554.6 | 2558.9 | 2563.8 | 2567.3 | 2567.5 | 2567.6 | 2567.8 |
| 10° | 2561.7 | 2562.4 | 2569.4 | 2585.7 | 2594.1 | 2607.6 | 2621.0 | 2631.6 | 2632.4 | 2633.2 | 2633.9 |
| 12.5° | 2579.4 | 2580.0 | 2590.6 | 2616.0 | 2636.5 | 2662.0 | 2690.9 | 2707.1 | 2708.5 | 2709.9 | 2711.3 |
| 15° | 2580.8 | 2582.8 | 2601.2 | 2642.9 | 2683.8 | 2725.4 | 2760.0 | 2782.0 | 2783.1 | 2784.2 | 2785.3 |
| 17.5° | 2562.4 | 2563.8 | 2594.9 | 2656.3 | 2724.8 | 2789.7 | 2825.7 | 2835.6 | 2836.0 | 2836.4 | 2836.9 |
| 20° | 2514.4 | 2517.9 | 2561.7 | 2652.8 | 2757.2 | 2841.9 | 2879.4 | 2866.0 | 2864.6 | 2863.3 | 2861.9 |
| 22.5° | 2436.8 | 2436.0 | 2493.2 | 2616.0 | 2763.6 | 2882.9 | 2916.0 | 2880.8 | 2876.6 | 2872.4 | 2868.3 |
| 25° | 2311.1 | 2319.6 | 2386.6 | 2533.5 | 2727.6 | 2892.0 | 2942.2 | 2888.5 | 2882.5 | 2876.5 | 2870.5 |
| 27.5° | 2174.9 | 2179.8 | 2251.1 | 2408.5 | 2643.6 | 2860.3 | 2954.9 | 2904.0 | 2897.3 | 2890.6 | 2883.9 |
| 30° | 2016.0 | 2022.4 | 2098.6 | 2263.1 | 2508.8 | 2778.4 | 2951.4 | 2939.4 | 2931.5 | 2923.7 | 2915.8 |
| 32.5° | 1860.8 | 1867.8 | 1936.2 | 2116.2 | 2366.8 | 2666.2 | 2930.2 | 2989.5 | 2981.5 | 2973.4 | 2965.4 |
| 35° | 1699.8 | 1710.4 | 1793.7 | 1975.8 | 2229.9 | 2541.2 | 2897.8 | 3053.7 | 3049.3 | 3044.8 | 3040.4 |
| 37.5° | 1566.4 | 1568.5 | 1649.0 | 1840.2 | 2102.9 | 2422.0 | 2854.6 | 3134.8 | 3138.1 | 3141.4 | 3144.6 |
| 40° | 1417.4 | 1430.8 | 1511.3 | 1713.2 | 1987.8 | 2321.0 | 2813.7 | 3245.0 | 3261.9 | 3278.7 | 3295.6 |
| 42.5° | 1284.0 | 1285.4 | 1367.3 | 1575.6 | 1862.8 | 2239.8 | 2791.2 | 3377.7 | 3413.8 | 3449.8 | 3485.9 |
| 45° | 1143.6 | 1149.2 | 1223.3 | 1424.5 | 1718.8 | 2143.8 | 2790.4 | 3530.9 | 3588.5 | 3646.1 | 3703.7 |
| 47.5° | 1010.8 | 1013.0 | 1091.3 | 1278.4 | 1553.7 | 2009.7 | 2785.4 | 3695.4 | 3773.8 | 3852.2 | 3930.6 |
| 50° | 883.8 | 881.6 | 958.6 | 1138.6 | 1390.6 | 1834.0 | 2742.4 | 3881.7 | 3980.7 | 4079.8 | 4178.8 |
| 52.5° | 738.3 | 748.2 | 828.0 | 1000.2 | 1242.4 | 1655.4 | 2616.8 | 4085.8 | 4204.2 | 4322.6 | 4441.1 |
| 55° | 595.8 | 600.0 | 685.4 | 846.4 | 1092.0 | 1488.8 | 2398.0 | 4273.5 | 4413.1 | 4552.7 | 4692.4 |
| 57.5° | 439.0 | 451.8 | 526.6 | 685.4 | 939.6 | 1348.3 | 2119.8 | 4370.9 | 4540.8 | 4710.7 | 4880.6 |
| 60° | 309.9 | 319.8 | 386.2 | 519.6 | 772.2 | 1200.7 | 1880.5 | 4316.6 | 4537.4 | 4758.2 | 4979.0 |
| 62.5° | 241.4 | 249.2 | 302.1 | 389.0 | 602.2 | 1053.2 | 1709.0 | 4140.8 | 4441.2 | 4741.7 | 5042.1 |
| 65° | 211.8 | 218.8 | 266.8 | 311.3 | 449.6 | 902.8 | 1615.1 | 3955.1 | 4352.2 | 4749.4 | 5146.5 |
| 67.5° | 191.3 | 199.8 | 241.4 | 272.5 | 366.4 | 787.8 | 1590.4 | 3838.0 | 4287.8 | 4737.5 | 5187.4 |
| 69° | 182.1 | 190.6 | 228.0 | 254.2 | 340.2 | 746.8 | 1548.0 | 3653.7 | 4100.9 | 4548.1 | 4995.3 |
| 70° | 176.5 | 183.5 | 218.1 | 245.0 | 331.8 | 718.6 | 1477.4 | 3423.6 | 3862.7 | 4301.9 | 4741.0 |
| 72.5° | 163.8 | 167.3 | 197.6 | 223.8 | 307.8 | 581.0 | 1136.4 | 2542.6 | 2923.3 | 3304.0 | 3684.7 |
| 75° | 144.7 | 149.0 | 177.1 | 202.6 | 240.0 | 360.7 | 719.3 | 1572.8 | 1856.9 | 2141.1 | 2425.3 |
| 77.5° | 125.0 | 128.4 | 153.2 | 193.4 | 186.4 | 225.2 | 429.9 | 875.4 | 1040.2 | 1205.0 | 1369.8 |
| 80° | 100.2 | 104.4 | 126.4 | 192.0 | 153.8 | 175.1 | 309.2 | 612.0 | 656.5 | 701.0 | 745.4 |
| 82.5° | 73.4 | 76.9 | 98.8 | 155.3 | 117.8 | 132.0 | 235.8 | 518.8 | 534.3 | 549.8 | 565.2 |
| 85° | 37.4 | 38.2 | 62.8 | 94.6 | 74.8 | 68.4 | 132.7 | 355.0 | 364.9 | 374.8 | 384.7 |
| 87.5° | 6.4 | 6.4 | 14.1 | 16.2 | 18.4 | 11.3 | 17.0 | 60.7 | 62.6 | 64.5 | 66.4 |
| 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-F05-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|---------|
| 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° | 2487.6 | 2487.2 | 2486.0 | 2486.3 | 2487.2 | 2486.7 | 2487.6 | 2487.7 | 2488.6 | 2485.9 | 2485.3 |
| 5° | 2517.5 | 2517.2 | 2517.1 | 2517.0 | 2517.5 | 2517.4 | 2518.0 | 2519.1 | 2518.8 | 2517.1 | 2516.8 |
| 7.5° | 2567.9 | 2568.0 | 2568.8 | 2568.1 | 2569.5 | 2568.8 | 2567.4 | 2569.6 | 2571.2 | 2571.3 | 2572.9 |
| 10° | 2634.7 | 2635.5 | 2638.0 | 2637.6 | 2640.1 | 2639.7 | 2640.1 | 2642.5 | 2644.2 | 2644.4 | 2646.1 |
| 12.5° | 2712.7 | 2714.2 | 2715.4 | 2716.7 | 2719.4 | 2717.8 | 2721.2 | 2722.6 | 2724.7 | 2729.0 | 2726.8 |
| 15° | 2786.4 | 2787.6 | 2791.4 | 2791.7 | 2794.1 | 2795.1 | 2798.2 | 2799.4 | 2800.0 | 2803.4 | 2804.0 |
| 17.5° | 2837.3 | 2837.7 | 2839.1 | 2838.4 | 2840.5 | 2839.8 | 2842.0 | 2843.1 | 2844.9 | 2846.8 | 2850.0 |
| 20° | 2860.6 | 2859.2 | 2858.5 | 2857.7 | 2856.2 | 2854.0 | 2854.6 | 2855.6 | 2855.9 | 2857.6 | 2860.0 |
| 22.5° | 2864.1 | 2859.9 | 2855.6 | 2852.7 | 2848.4 | 2844.8 | 2841.2 | 2841.5 | 2841.8 | 2841.4 | 2843.0 |
| 25° | 2864.5 | 2858.5 | 2851.8 | 2843.7 | 2837.7 | 2829.6 | 2822.8 | 2822.3 | 2820.3 | 2820.5 | 2821.3 |
| 27.5° | 2877.2 | 2870.5 | 2861.1 | 2851.7 | 2838.8 | 2828.0 | 2817.2 | 2813.4 | 2809.6 | 2807.2 | 2806.2 |
| 30° | 2908.0 | 2900.2 | 2889.0 | 2877.0 | 2863.0 | 2846.1 | 2830.6 | 2825.8 | 2820.4 | 2815.5 | 2811.4 |
| 32.5° | 2957.3 | 2949.3 | 2936.8 | 2924.4 | 2905.6 | 2888.9 | 2873.7 | 2865.9 | 2858.2 | 2849.7 | 2842.0 |
| 35° | 3035.9 | 3031.5 | 3020.5 | 3009.6 | 2995.8 | 2982.8 | 2969.0 | 2960.3 | 2947.2 | 2940.6 | 2931.2 |
| 37.5° | 3147.9 | 3151.1 | 3151.1 | 3152.5 | 3148.3 | 3142.0 | 3132.1 | 3122.9 | 3118.6 | 3101.0 | 3089.7 |
| 40° | 3312.5 | 3329.3 | 3344.8 | 3356.8 | 3367.3 | 3377.8 | 3386.9 | 3381.5 | 3383.2 | 3378.5 | 3371.8 |
| 42.5° | 3522.0 | 3558.0 | 3591.0 | 3624.0 | 3647.8 | 3685.0 | 3710.9 | 3719.1 | 3740.0 | 3748.2 | 3763.4 |
| 45° | 3761.3 | 3818.9 | 3874.2 | 3925.3 | 3972.9 | 4026.2 | 4078.0 | 4116.5 | 4158.6 | 4206.3 | 4254.0 |
| 47.5° | 4009.0 | 4087.5 | 4169.0 | 4235.7 | 4304.6 | 4383.2 | 4452.1 | 4510.1 | 4585.8 | 4655.8 | 4732.9 |
| 50° | 4277.9 | 4376.9 | 4469.7 | 4552.0 | 4640.5 | 4731.2 | 4825.5 | 4910.8 | 5013.0 | 5125.1 | 5246.4 |
| 52.5° | 4559.5 | 4678.0 | 4785.5 | 4888.6 | 4992.5 | 5096.5 | 5196.8 | 5317.2 | 5443.3 | 5591.3 | 5742.8 |
| 55° | 4832.0 | 4971.6 | 5093.5 | 5208.2 | 5327.2 | 5443.4 | 5546.9 | 5708.0 | 5862.7 | 6039.4 | 6237.2 |
| 57.5° | 5050.5 | 5220.5 | 5361.0 | 5497.3 | 5631.5 | 5755.1 | 5882.2 | 6063.9 | 6261.1 | 6467.6 | 6718.4 |
| 60° | 5199.8 | 5420.6 | 5600.0 | 5763.9 | 5928.6 | 6084.0 | 6230.2 | 6467.7 | 6702.4 | 6958.8 | 7271.1 |
| 62.5° | 5342.5 | 5643.0 | 5877.0 | 6100.5 | 6322.6 | 6522.1 | 6703.9 | 7002.7 | 7309.2 | 7626.2 | 7997.7 |
| 65° | 5543.7 | 5940.8 | 6285.6 | 6597.2 | 6904.5 | 7197.7 | 7469.8 | 7848.3 | 8235.2 | 8652.6 | 9096.0 |
| 67.5° | 5637.2 | 6087.0 | 6535.9 | 6955.9 | 7346.3 | 7717.6 | 8067.0 | 8524.6 | 8980.0 | 9463.7 | 9999.6 |
| 69° | 5442.4 | 5889.6 | 6369.6 | 6828.3 | 7259.6 | 7653.4 | 8031.7 | 8498.9 | 8972.4 | 9466.4 | 10007.0 |
| 70° | 5180.1 | 5619.3 | 6103.8 | 6583.2 | 6995.7 | 7406.1 | 7798.0 | 8261.5 | 8741.3 | 9236.5 | 9802.4 |
| 72.5° | 4065.4 | 4446.1 | 4918.5 | 5383.9 | 5797.8 | 6209.5 | 6590.2 | 7064.6 | 7547.5 | 8067.7 | 8603.5 |
| 75° | 2709.5 | 2993.7 | 3345.7 | 3777.4 | 4156.9 | 4520.8 | 4889.8 | 5291.0 | 5762.1 | 6190.8 | 6681.0 |
| 77.5° | 1534.6 | 1699.4 | 1904.0 | 2184.7 | 2457.0 | 2674.8 | 2938.0 | 3126.7 | 3400.2 | 3636.2 | 3885.7 |
| 80° | 789.9 | 834.4 | 895.4 | 962.7 | 1001.1 | 995.1 | 1034.2 | 995.4 | 1004.0 | 972.4 | 938.7 |
| 82.5° | 580.7 | 596.1 | 623.7 | 637.2 | 635.8 | 591.5 | 544.2 | 478.7 | 421.0 | 360.4 | 304.8 |
| 85° | 394.6 | 404.4 | 411.4 | 421.8 | 418.8 | 399.6 | 357.2 | 300.3 | 244.8 | 196.4 | 157.1 |
| 87.5° | 68.3 | 70.2 | 69.7 | 75.6 | 75.8 | 70.3 | 57.8 | 49.4 | 41.6 | 31.1 | 21.9 |
| 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° | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 | 2479.1 |
| 2.5° | 2484.8 | 2484.8 | 2486.1 | 2484.8 | 2484.8 | 2484.8 | 2484.0 | 2485.5 | 2484.8 | 2482.6 | 2480.5 |
| 5° | 2517.2 | 2515.1 | 2514.4 | 2515.8 | 2517.2 | 2514.4 | 2516.5 | 2518.6 | 2515.1 | 2515.8 | 2514.4 |
| 7.5° | 2571.6 | 2570.8 | 2570.2 | 2571.6 | 2571.6 | 2570.9 | 2571.6 | 2569.4 | 2568.0 | 2570.2 | 2572.3 |
| 10° | 2644.2 | 2643.6 | 2645.0 | 2645.0 | 2647.8 | 2646.4 | 2645.7 | 2647.8 | 2646.4 | 2645.0 | 2645.7 |
| 12.5° | 2729.7 | 2727.6 | 2731.1 | 2731.1 | 2733.2 | 2733.2 | 2732.6 | 2733.2 | 2732.6 | 2730.4 | 2729.0 |
| 15° | 2806.0 | 2803.1 | 2803.8 | 2809.4 | 2808.8 | 2810.1 | 2810.2 | 2808.8 | 2808.0 | 2807.4 | 2808.1 |
| 17.5° | 2851.8 | 2850.4 | 2850.4 | 2853.2 | 2855.4 | 2854.6 | 2854.6 | 2854.6 | 2854.0 | 2854.6 | 2856.1 |
| 20° | 2860.3 | 2860.2 | 2861.0 | 2863.8 | 2867.4 | 2865.2 | 2865.2 | 2866.6 | 2865.2 | 2866.6 | 2867.4 |
| 22.5° | 2844.0 | 2845.4 | 2846.9 | 2850.4 | 2851.1 | 2851.1 | 2851.2 | 2851.8 | 2853.2 | 2853.2 | 2854.6 |
| 25° | 2821.5 | 2822.9 | 2825.0 | 2827.8 | 2830.6 | 2830.6 | 2830.6 | 2832.0 | 2832.1 | 2832.8 | 2833.5 |
| 27.5° | 2804.5 | 2805.9 | 2808.0 | 2810.8 | 2814.4 | 2814.4 | 2814.5 | 2815.8 | 2815.9 | 2816.5 | 2817.9 |
| 30° | 2806.6 | 2803.8 | 2806.0 | 2807.4 | 2809.5 | 2809.4 | 2808.8 | 2809.5 | 2810.1 | 2810.2 | 2810.9 |
| 32.5° | 2837.0 | 2830.6 | 2828.6 | 2827.8 | 2828.6 | 2826.4 | 2825.7 | 2824.3 | 2822.8 | 2822.9 | 2822.2 |
| 35° | 2917.5 | 2907.6 | 2906.9 | 2901.2 | 2895.6 | 2890.0 | 2890.6 | 2886.5 | 2887.8 | 2884.3 | 2881.5 |
| 37.5° | 3082.6 | 3071.4 | 3078.4 | 3066.4 | 3058.6 | 3053.0 | 3046.6 | 3038.2 | 3033.2 | 3039.6 | 3039.6 |
| 40° | 3378.4 | 3370.6 | 3368.5 | 3370.6 | 3363.6 | 3367.1 | 3351.6 | 3347.4 | 3338.2 | 3344.6 | 3353.0 |
| 42.5° | 3787.2 | 3782.2 | 3809.0 | 3814.0 | 3816.8 | 3821.0 | 3823.8 | 3800.6 | 3799.8 | 3794.9 | 3780.8 |
| 45° | 4291.8 | 4321.5 | 4320.0 | 4352.5 | 4354.0 | 4344.1 | 4348.4 | 4337.8 | 4333.5 | 4318.0 | 4337.0 |
| 47.5° | 4810.7 | 4867.2 | 4888.3 | 4895.4 | 4922.2 | 4928.6 | 4903.2 | 4894.7 | 4909.5 | 4884.1 | 4887.6 |
| 50° | 5367.6 | 5428.4 | 5477.8 | 5510.9 | 5530.0 | 5531.4 | 5512.4 | 5508.2 | 5521.5 | 5473.5 | 5496.1 |
| 52.5° | 5915.4 | 6007.2 | 6100.4 | 6149.8 | 6185.0 | 6187.8 | 6202.7 | 6185.0 | 6192.1 | 6180.8 | 6203.4 |
| 55° | 6455.4 | 6614.2 | 6723.6 | 6820.4 | 6881.8 | 6934.7 | 6939.6 | 6958.7 | 6960.2 | 6983.4 | 6960.1 |
| 57.5° | 6983.4 | 7156.4 | 7347.0 | 7518.5 | 7613.8 | 7673.8 | 7730.2 | 7807.2 | 7824.2 | 7815.0 | 7829.8 |
| 60° | 7606.7 | 7874.3 | 8133.3 | 8331.0 | 8495.4 | 8652.9 | 8737.6 | 8858.3 | 8877.4 | 8929.6 | 8884.4 |
| 62.5° | 8394.5 | 8782.8 | 9134.3 | 9400.4 | 9650.3 | 9895.2 | 10080.2 | 10173.3 | 10229.8 | 10339.2 | 10303.3 |
| 65° | 9603.0 | 10069.0 | 10534.0 | 10915.2 | 11265.4 | 11557.0 | 11837.9 | 11972.0 | 12120.2 | 12275.6 | 12303.8 |
| 67.5° | 10598.4 | 11175.0 | 11699.6 | 12164.0 | 12588.2 | 12912.2 | 13204.4 | 13436.8 | 13617.4 | 13731.8 | 13741.0 |
| 69° | 10643.6 | 11242.8 | 11812.4 | 12310.8 | 12753.4 | 13097.9 | 13405.7 | 13664.0 | 13839.8 | 13957.0 | 13988.0 |
| 70° | 10427.5 | 11041.0 | 11648.0 | 12151.3 | 12604.5 | 12956.8 | 13282.8 | 13529.2 | 13725.4 | 13844.7 | 13886.4 |
| 72.5° | 9212.6 | 9867.7 | 10516.4 | 10957.6 | 11420.7 | 11840.0 | 12101.2 | 12352.5 | 12629.2 | 12665.2 | 12779.5 |
| 75° | 7262.2 | 7812.8 | 8316.2 | 8653.6 | 9040.4 | 9416.7 | 9672.9 | 9739.2 | 9884.0 | 10066.1 | 10001.1 |
| 77.5° | 4208.6 | 4378.0 | 4702.7 | 4786.0 | 4715.4 | 4879.2 | 4933.5 | 4817.7 | 4812.1 | 4918.6 | 4706.9 |
| 80° | 932.5 | 879.6 | 945.9 | 896.5 | 897.9 | 899.3 | 884.4 | 878.8 | 889.4 | 878.8 | 864.0 |
| 82.5° | 258.4 | 249.9 | 251.3 | 248.5 | 253.4 | 249.9 | 247.8 | 253.4 | 252.7 | 252.0 | 256.9 |
| 85° | 124.2 | 122.8 | 120.7 | 120.0 | 117.2 | 113.6 | 108.0 | 108.0 | 110.8 | 106.6 | 108.7 |
| 87.5° | 16.2 | 15.6 | 15.5 | 18.4 | 16.2 | 13.4 | 13.4 | 13.4 | 12.7 | 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 |

(END OF REPORT)