

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: P140852

Luminaire Tested: **CEM-E04-LED-E-U-RW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P140852
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33689)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: CEM-E04-LED-E-U-RW-7060
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12138.1 lumens
Efficiency: N/A
Efficacy: 124.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type V - Medium - Full Cutoff
BUG Rating: B3 - U0 - G2

Input Watts (W): 97.2
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

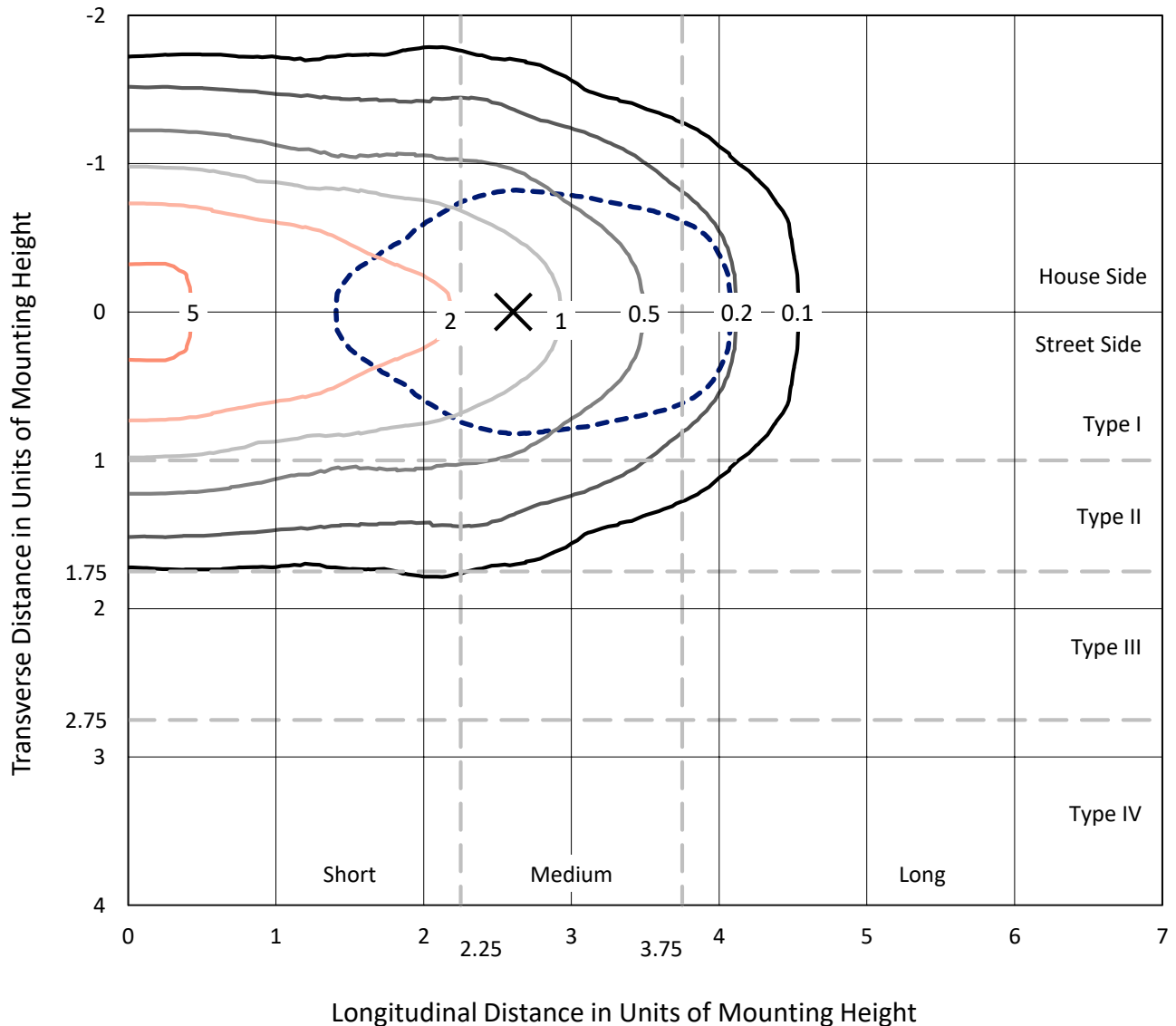


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

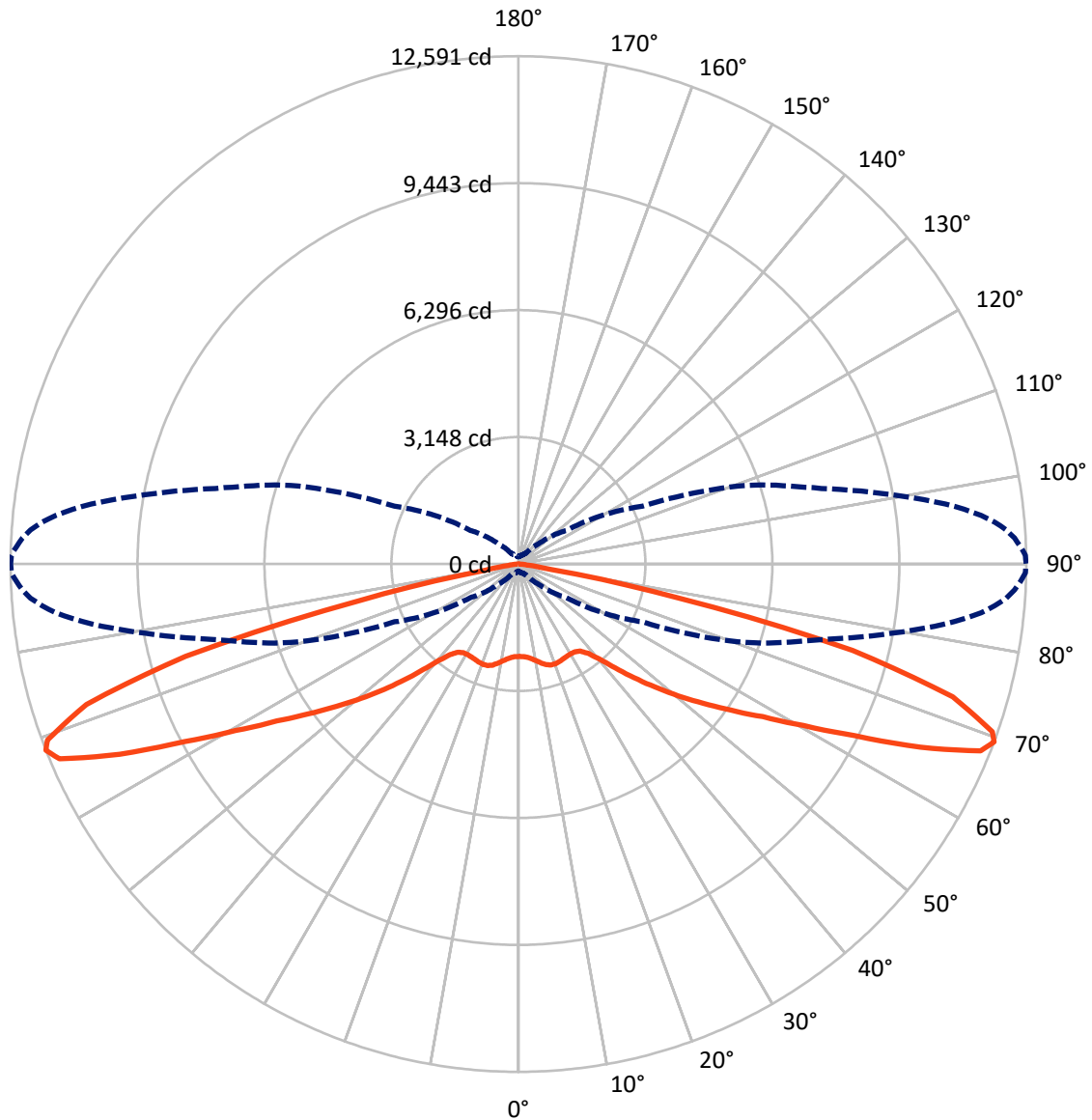


Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Medium - Full Cutoff

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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 | 6069.0 | 0.0 | 6069.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6069.0 | 0.0 | 6069.0 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12138.1 | 0.0 | 12138.1 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

Coefficient of Utilization

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 224.4 | 1.8 |
| 10°-20° | 705.4 | 5.8 |
| 20°-30° | 1140.7 | 9.4 |
| 30°-40° | 1424.8 | 11.7 |
| 40°-50° | 1782.2 | 14.7 |
| 50°-60° | 2196.0 | 18.1 |
| 60°-70° | 2718.7 | 22.4 |
| 70°-80° | 1777.0 | 14.6 |
| 80°-90° | 168.9 | 1.4 |
| 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° | 12138.1 | 100.0 |
| 0°-180° | 12138.1 | 100.0 |



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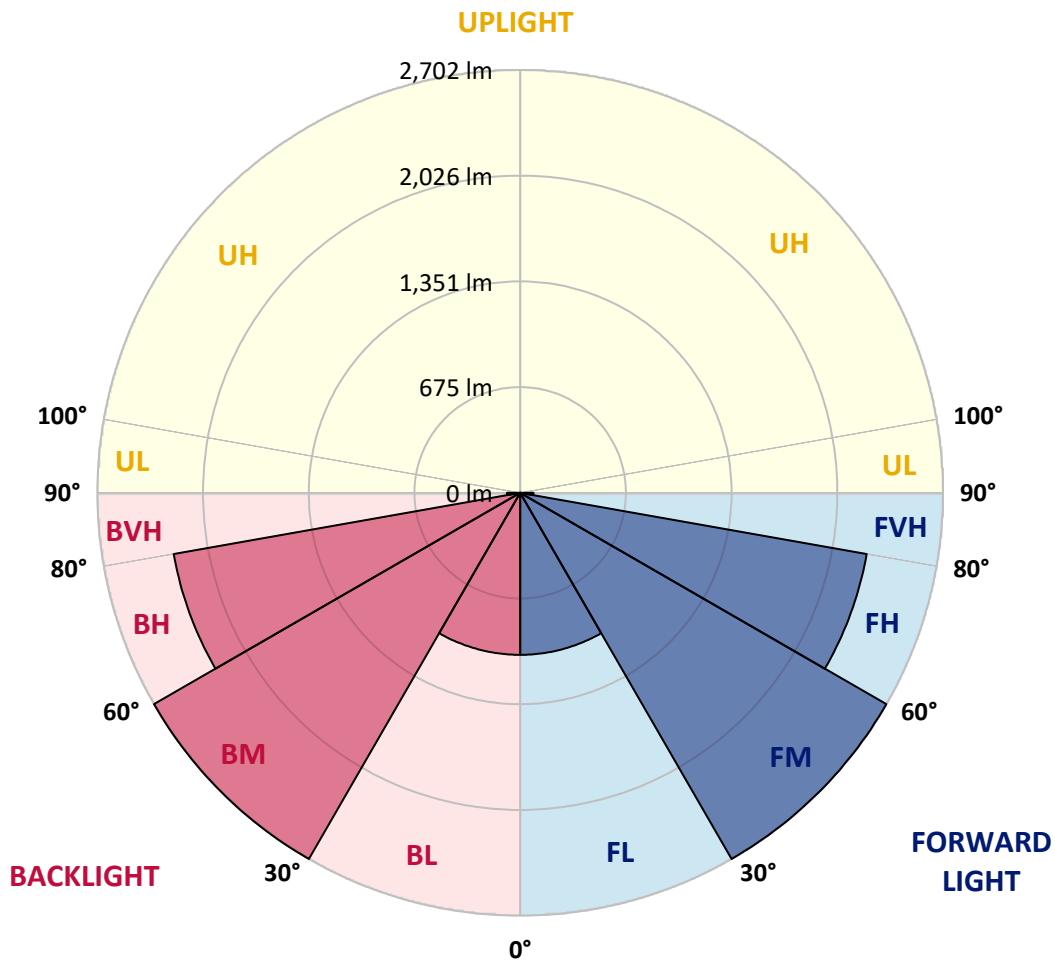
CATALOG NUMBER: CEM-E04-LED-E-U-RW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|------|-------------|--------|-----------|-------------------------|------|---------|
| | | | | B | U | G |
| FL | (0°-30°) | 1035.2 | 8.5 | | | |
| FM | (30°-60°) | 2701.5 | 22.3 | | | |
| FH | (60°-80°) | 2247.9 | 18.5 | | | G2/5000 |
| FVH | (80°-90°) | 84.4 | 0.7 | | | G1/100 |
| BL | (0°-30°) | 1035.2 | 8.5 | B3/2500 | | |
| BM | (30°-60°) | 2701.5 | 22.3 | B3/5000 | | |
| BH | (60°-80°) | 2247.9 | 18.5 | B3/2500 | | G2/5000 |
| BVH | (80°-90°) | 84.4 | 0.7 | | | 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° | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 |
| 2.5° | 2306.7 | 2308.0 | 2303.9 | 2305.3 | 2306.6 | 2305.3 | 2303.2 | 2303.2 | 2302.6 | 2301.9 | 2301.2 |
| 5° | 2321.7 | 2322.4 | 2320.4 | 2323.8 | 2324.5 | 2326.5 | 2326.5 | 2327.2 | 2326.8 | 2326.4 | 2326.0 |
| 7.5° | 2343.0 | 2345.7 | 2343.6 | 2348.4 | 2353.2 | 2360.0 | 2363.4 | 2371.6 | 2371.5 | 2371.4 | 2371.3 |
| 10° | 2362.8 | 2365.5 | 2365.5 | 2376.4 | 2388.1 | 2401.1 | 2414.8 | 2427.8 | 2428.6 | 2429.4 | 2430.2 |
| 12.5° | 2377.8 | 2379.8 | 2383.3 | 2403.2 | 2429.1 | 2451.0 | 2475.0 | 2495.5 | 2496.3 | 2497.1 | 2498.0 |
| 15° | 2371.6 | 2376.4 | 2392.2 | 2423.6 | 2469.5 | 2505.8 | 2535.2 | 2559.8 | 2561.4 | 2563.1 | 2564.7 |
| 17.5° | 2350.5 | 2358.0 | 2380.6 | 2434.0 | 2504.4 | 2562.6 | 2597.4 | 2604.2 | 2605.4 | 2606.4 | 2607.6 |
| 20° | 2304.6 | 2315.6 | 2351.2 | 2427.0 | 2531.0 | 2609.8 | 2644.6 | 2632.3 | 2631.2 | 2630.1 | 2629.0 |
| 22.5° | 2228.0 | 2242.4 | 2286.9 | 2395.0 | 2533.1 | 2643.9 | 2678.2 | 2644.0 | 2640.1 | 2636.3 | 2632.4 |
| 25° | 2125.4 | 2137.0 | 2187.6 | 2315.6 | 2501.6 | 2650.1 | 2699.4 | 2651.4 | 2645.3 | 2639.1 | 2633.0 |
| 27.5° | 2000.9 | 2010.5 | 2073.4 | 2209.6 | 2423.6 | 2618.6 | 2713.0 | 2664.4 | 2656.5 | 2648.6 | 2640.6 |
| 30° | 1860.7 | 1868.9 | 1938.0 | 2083.0 | 2314.2 | 2549.5 | 2711.6 | 2693.8 | 2684.4 | 2675.0 | 2665.6 |
| 32.5° | 1721.2 | 1724.6 | 1786.1 | 1945.5 | 2192.4 | 2447.6 | 2689.1 | 2739.0 | 2729.8 | 2720.7 | 2711.5 |
| 35° | 1567.9 | 1578.8 | 1644.5 | 1818.2 | 2055.0 | 2335.4 | 2659.0 | 2802.0 | 2796.8 | 2791.6 | 2786.4 |
| 37.5° | 1444.8 | 1448.2 | 1518.6 | 1699.2 | 1943.4 | 2233.4 | 2620.6 | 2882.7 | 2886.4 | 2890.1 | 2893.8 |
| 40° | 1321.6 | 1321.6 | 1391.4 | 1578.8 | 1831.9 | 2141.8 | 2588.6 | 2981.9 | 3000.6 | 3019.4 | 3038.1 |
| 42.5° | 1186.9 | 1196.4 | 1264.8 | 1451.6 | 1723.8 | 2063.9 | 2572.1 | 3100.9 | 3136.2 | 3171.5 | 3206.8 |
| 45° | 1061.0 | 1067.2 | 1137.0 | 1319.6 | 1589.1 | 1974.9 | 2567.3 | 3233.6 | 3287.2 | 3340.9 | 3394.5 |
| 47.5° | 937.2 | 946.0 | 1012.4 | 1180.0 | 1442.0 | 1856.6 | 2561.2 | 3384.8 | 3453.3 | 3521.8 | 3590.4 |
| 50° | 822.2 | 827.8 | 901.6 | 1054.2 | 1297.0 | 1703.4 | 2520.8 | 3553.8 | 3637.5 | 3721.2 | 3804.9 |
| 52.5° | 700.5 | 711.4 | 772.3 | 929.6 | 1150.6 | 1538.5 | 2414.8 | 3737.8 | 3839.0 | 3940.2 | 4041.5 |
| 55° | 573.2 | 570.5 | 643.7 | 791.4 | 1022.7 | 1380.4 | 2219.1 | 3897.2 | 4019.3 | 4141.5 | 4263.7 |
| 57.5° | 420.0 | 428.9 | 496.0 | 645.8 | 874.2 | 1247.8 | 1988.6 | 3980.0 | 4132.4 | 4284.8 | 4437.2 |
| 60° | 301.0 | 313.3 | 371.4 | 489.8 | 726.4 | 1117.8 | 1753.2 | 3922.4 | 4124.4 | 4326.3 | 4528.3 |
| 62.5° | 235.3 | 240.8 | 290.8 | 367.4 | 566.4 | 981.6 | 1595.2 | 3773.4 | 4051.8 | 4330.2 | 4608.6 |
| 65° | 205.2 | 211.4 | 255.8 | 295.6 | 430.3 | 852.4 | 1500.2 | 3654.3 | 4021.8 | 4389.3 | 4756.8 |
| 67.5° | 186.8 | 194.2 | 232.6 | 260.0 | 353.0 | 742.2 | 1477.6 | 3557.2 | 3988.3 | 4419.4 | 4850.5 |
| 69° | 177.8 | 185.4 | 221.0 | 246.2 | 327.6 | 707.3 | 1451.6 | 3393.7 | 3831.2 | 4268.8 | 4706.3 |
| 70° | 173.8 | 179.9 | 214.2 | 238.0 | 319.5 | 686.8 | 1392.8 | 3207.0 | 3629.8 | 4052.7 | 4475.6 |
| 72.5° | 160.1 | 163.5 | 195.0 | 218.2 | 302.4 | 574.7 | 1103.4 | 2400.4 | 2753.8 | 3107.2 | 3460.6 |
| 75° | 141.6 | 147.1 | 175.8 | 199.8 | 242.8 | 368.0 | 723.8 | 1450.9 | 1712.6 | 1974.4 | 2236.1 |
| 77.5° | 121.8 | 126.6 | 151.1 | 190.8 | 186.8 | 223.0 | 415.9 | 810.6 | 952.1 | 1093.6 | 1235.0 |
| 80° | 105.4 | 110.2 | 132.7 | 177.2 | 151.8 | 164.8 | 280.5 | 528.8 | 582.6 | 636.3 | 690.1 |
| 82.5° | 82.8 | 86.2 | 111.5 | 144.3 | 117.6 | 122.4 | 210.0 | 461.8 | 494.2 | 526.6 | 559.0 |
| 85° | 52.7 | 54.8 | 81.4 | 98.5 | 82.1 | 72.5 | 132.0 | 338.6 | 364.2 | 389.8 | 415.3 |
| 87.5° | 18.5 | 26.0 | 36.2 | 34.2 | 34.2 | 26.0 | 46.5 | 125.2 | 135.2 | 145.2 | 155.1 |
| 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: CEM-E04-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 |
| 2.5° | 2300.5 | 2299.9 | 2300.6 | 2300.6 | 2299.9 | 2299.2 | 2299.2 | 2298.5 | 2297.1 | 2297.1 | 2296.4 |
| 5° | 2325.6 | 2325.2 | 2326.5 | 2325.8 | 2326.6 | 2325.8 | 2325.8 | 2325.2 | 2325.9 | 2323.1 | 2322.4 |
| 7.5° | 2371.1 | 2371.0 | 2371.0 | 2373.0 | 2371.7 | 2371.0 | 2372.4 | 2372.4 | 2372.4 | 2371.0 | 2371.0 |
| 10° | 2431.1 | 2431.9 | 2433.2 | 2434.6 | 2434.6 | 2434.6 | 2437.4 | 2435.2 | 2439.4 | 2435.2 | 2437.4 |
| 12.5° | 2498.8 | 2499.6 | 2503.0 | 2504.4 | 2505.8 | 2505.8 | 2505.8 | 2509.9 | 2512.6 | 2511.9 | 2512.6 |
| 15° | 2566.4 | 2568.0 | 2568.7 | 2570.8 | 2570.8 | 2571.4 | 2574.1 | 2579.0 | 2577.6 | 2580.4 | 2580.3 |
| 17.5° | 2608.6 | 2609.8 | 2609.0 | 2609.0 | 2610.4 | 2612.5 | 2615.2 | 2617.9 | 2617.2 | 2619.3 | 2620.6 |
| 20° | 2627.9 | 2626.8 | 2624.8 | 2623.4 | 2622.8 | 2624.1 | 2624.1 | 2624.8 | 2626.2 | 2626.1 | 2626.1 |
| 22.5° | 2628.6 | 2624.8 | 2620.0 | 2617.2 | 2613.9 | 2611.8 | 2613.1 | 2611.8 | 2611.8 | 2611.8 | 2610.4 |
| 25° | 2626.8 | 2620.6 | 2613.1 | 2607.6 | 2602.2 | 2598.8 | 2595.4 | 2594.0 | 2591.2 | 2591.2 | 2591.2 |
| 27.5° | 2632.7 | 2624.8 | 2617.2 | 2607.0 | 2599.4 | 2595.4 | 2590.6 | 2585.8 | 2583.0 | 2580.4 | 2580.3 |
| 30° | 2656.1 | 2646.7 | 2637.1 | 2624.8 | 2614.5 | 2611.1 | 2602.2 | 2597.4 | 2590.6 | 2587.1 | 2585.8 |
| 32.5° | 2702.4 | 2693.2 | 2680.1 | 2666.5 | 2658.3 | 2648.0 | 2640.5 | 2630.2 | 2622.8 | 2618.0 | 2611.8 |
| 35° | 2781.2 | 2776.0 | 2765.0 | 2756.1 | 2743.8 | 2732.1 | 2717.2 | 2711.6 | 2696.0 | 2693.2 | 2685.6 |
| 37.5° | 2897.5 | 2901.1 | 2899.1 | 2892.2 | 2884.0 | 2873.8 | 2867.6 | 2856.0 | 2849.9 | 2843.7 | 2836.8 |
| 40° | 3056.9 | 3075.6 | 3081.8 | 3089.3 | 3091.4 | 3100.2 | 3090.0 | 3088.6 | 3080.4 | 3087.2 | 3083.1 |
| 42.5° | 3242.1 | 3277.4 | 3296.6 | 3319.1 | 3343.8 | 3366.4 | 3384.1 | 3414.2 | 3410.8 | 3434.0 | 3450.4 |
| 45° | 3448.1 | 3501.8 | 3551.0 | 3588.6 | 3635.8 | 3687.8 | 3733.6 | 3776.0 | 3824.0 | 3851.3 | 3891.6 |
| 47.5° | 3659.0 | 3727.5 | 3798.0 | 3867.8 | 3934.8 | 4001.8 | 4083.9 | 4158.5 | 4231.0 | 4280.2 | 4342.5 |
| 50° | 3888.7 | 3972.4 | 4057.2 | 4142.7 | 4237.8 | 4343.2 | 4434.8 | 4532.0 | 4631.8 | 4733.0 | 4804.2 |
| 52.5° | 4142.8 | 4244.0 | 4336.4 | 4426.6 | 4544.3 | 4655.8 | 4774.8 | 4896.6 | 5047.8 | 5157.9 | 5255.7 |
| 55° | 4385.9 | 4508.0 | 4609.2 | 4717.4 | 4840.5 | 4964.3 | 5110.0 | 5262.6 | 5422.6 | 5581.4 | 5725.0 |
| 57.5° | 4589.6 | 4742.0 | 4862.4 | 4969.8 | 5101.8 | 5244.8 | 5401.4 | 5590.2 | 5772.9 | 5969.9 | 6155.3 |
| 60° | 4730.2 | 4932.2 | 5077.2 | 5206.5 | 5359.6 | 5518.4 | 5723.0 | 5946.0 | 6186.0 | 6431.0 | 6669.0 |
| 62.5° | 4887.0 | 5165.4 | 5363.8 | 5548.5 | 5729.8 | 5906.2 | 6136.8 | 6413.8 | 6739.4 | 7035.6 | 7351.0 |
| 65° | 5124.3 | 5491.8 | 5784.5 | 6019.8 | 6277.0 | 6534.2 | 6803.0 | 7126.6 | 7496.8 | 7929.0 | 8296.4 |
| 67.5° | 5281.6 | 5712.7 | 6084.8 | 6422.0 | 6722.4 | 7035.0 | 7374.3 | 7761.4 | 8208.2 | 8649.4 | 9106.4 |
| 69° | 5143.8 | 5581.4 | 5974.7 | 6346.1 | 6675.2 | 7011.8 | 7356.4 | 7746.4 | 8202.6 | 8690.4 | 9172.7 |
| 70° | 4898.5 | 5321.4 | 5727.7 | 6119.0 | 6440.5 | 6792.2 | 7131.4 | 7502.9 | 7965.3 | 8453.0 | 8977.8 |
| 72.5° | 3814.0 | 4167.4 | 4584.6 | 4962.2 | 5346.0 | 5666.8 | 5973.3 | 6346.2 | 6812.6 | 7277.2 | 7788.2 |
| 75° | 2497.8 | 2759.6 | 3141.2 | 3451.8 | 3783.6 | 4084.6 | 4306.9 | 4677.0 | 4960.2 | 5397.3 | 5872.1 |
| 77.5° | 1376.5 | 1518.0 | 1716.4 | 1969.4 | 2112.4 | 2282.0 | 2504.4 | 2639.1 | 2840.2 | 3146.0 | 3288.4 |
| 80° | 743.9 | 797.6 | 881.1 | 933.8 | 976.2 | 934.4 | 911.9 | 952.2 | 935.1 | 930.3 | 884.5 |
| 82.5° | 591.4 | 623.8 | 667.0 | 697.8 | 677.9 | 588.3 | 493.2 | 424.2 | 379.7 | 319.4 | 273.6 |
| 85° | 440.9 | 466.5 | 483.0 | 503.5 | 500.1 | 452.2 | 361.8 | 279.8 | 219.6 | 175.1 | 152.6 |
| 87.5° | 165.1 | 175.1 | 179.9 | 218.9 | 201.2 | 190.9 | 148.4 | 108.1 | 82.8 | 60.2 | 48.6 |
| 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° | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 | 2291.6 |
| 2.5° | 2297.8 | 2297.1 | 2297.1 | 2297.1 | 2297.8 | 2296.4 | 2295.0 | 2296.4 | 2295.8 | 2295.7 | 2295.7 |
| 5° | 2325.2 | 2324.4 | 2324.5 | 2325.1 | 2324.5 | 2325.2 | 2324.5 | 2321.8 | 2323.1 | 2323.8 | 2324.5 |
| 7.5° | 2372.4 | 2371.7 | 2371.6 | 2375.1 | 2374.4 | 2373.8 | 2373.0 | 2374.4 | 2372.4 | 2372.4 | 2373.7 |
| 10° | 2437.4 | 2440.0 | 2439.4 | 2441.4 | 2440.8 | 2439.4 | 2438.0 | 2439.4 | 2441.4 | 2442.2 | 2439.4 |
| 12.5° | 2516.7 | 2517.4 | 2516.0 | 2519.4 | 2517.4 | 2522.1 | 2516.7 | 2519.4 | 2522.1 | 2518.0 | 2520.1 |
| 15° | 2581.0 | 2581.0 | 2583.8 | 2584.4 | 2583.7 | 2585.1 | 2589.2 | 2587.1 | 2585.1 | 2588.6 | 2589.9 |
| 17.5° | 2620.0 | 2622.0 | 2622.8 | 2623.4 | 2624.8 | 2626.2 | 2626.8 | 2626.1 | 2626.8 | 2628.2 | 2630.9 |
| 20° | 2628.9 | 2628.2 | 2629.6 | 2630.2 | 2632.3 | 2632.3 | 2633.6 | 2633.0 | 2635.0 | 2635.8 | 2636.4 |
| 22.5° | 2613.1 | 2613.8 | 2614.5 | 2616.6 | 2615.8 | 2617.2 | 2618.0 | 2620.0 | 2619.3 | 2620.7 | 2621.4 |
| 25° | 2592.0 | 2593.3 | 2594.0 | 2593.3 | 2593.3 | 2594.0 | 2594.7 | 2594.0 | 2596.7 | 2598.1 | 2598.1 |
| 27.5° | 2578.2 | 2578.2 | 2580.4 | 2579.6 | 2578.2 | 2579.6 | 2579.0 | 2579.0 | 2579.0 | 2579.6 | 2581.7 |
| 30° | 2583.8 | 2581.6 | 2580.3 | 2580.3 | 2579.6 | 2578.3 | 2576.9 | 2574.8 | 2574.9 | 2575.5 | 2574.8 |
| 32.5° | 2613.1 | 2609.0 | 2607.0 | 2605.0 | 2603.6 | 2600.2 | 2596.0 | 2594.7 | 2591.2 | 2591.2 | 2589.9 |
| 35° | 2688.4 | 2683.6 | 2683.6 | 2676.1 | 2672.0 | 2669.9 | 2666.6 | 2656.2 | 2657.0 | 2652.8 | 2651.5 |
| 37.5° | 2838.2 | 2830.0 | 2826.6 | 2833.4 | 2820.4 | 2825.9 | 2814.2 | 2809.5 | 2812.2 | 2804.7 | 2808.8 |
| 40° | 3090.0 | 3103.0 | 3097.5 | 3105.0 | 3108.5 | 3109.8 | 3109.8 | 3098.2 | 3109.8 | 3091.3 | 3097.5 |
| 42.5° | 3453.2 | 3487.4 | 3499.7 | 3503.8 | 3525.0 | 3519.6 | 3513.4 | 3512.7 | 3512.0 | 3520.9 | 3516.1 |
| 45° | 3910.2 | 3915.0 | 3973.1 | 3984.0 | 3995.6 | 4008.6 | 4005.2 | 4020.3 | 4031.2 | 4016.2 | 4018.2 |
| 47.5° | 4377.4 | 4426.0 | 4468.4 | 4491.6 | 4516.9 | 4504.0 | 4514.2 | 4520.4 | 4559.3 | 4555.2 | 4551.8 |
| 50° | 4891.8 | 4973.2 | 4995.8 | 5021.0 | 5040.9 | 5080.5 | 5077.2 | 5101.2 | 5097.0 | 5129.2 | 5133.3 |
| 52.5° | 5379.6 | 5469.2 | 5560.1 | 5599.8 | 5629.9 | 5675.7 | 5693.5 | 5719.5 | 5709.9 | 5707.2 | 5731.1 |
| 55° | 5864.6 | 6014.4 | 6118.3 | 6220.2 | 6277.0 | 6337.9 | 6363.9 | 6400.8 | 6417.2 | 6424.8 | 6394.7 |
| 57.5° | 6345.4 | 6525.3 | 6701.2 | 6827.0 | 6914.6 | 7006.2 | 7054.8 | 7095.2 | 7142.4 | 7158.1 | 7143.1 |
| 60° | 6907.7 | 7171.1 | 7401.6 | 7570.0 | 7731.4 | 7831.2 | 7935.9 | 8012.5 | 8026.8 | 8091.9 | 8133.6 |
| 62.5° | 7656.8 | 7977.6 | 8269.7 | 8514.6 | 8765.0 | 8951.7 | 9140.6 | 9215.8 | 9290.4 | 9341.0 | 9371.8 |
| 65° | 8678.1 | 9100.8 | 9504.4 | 9852.6 | 10159.8 | 10470.4 | 10690.6 | 10806.3 | 10954.7 | 10984.1 | 10952.0 |
| 67.5° | 9573.6 | 10072.2 | 10573.7 | 11016.9 | 11348.8 | 11670.9 | 11932.2 | 12123.8 | 12262.6 | 12331.0 | 12359.8 |
| 69° | 9672.1 | 10179.0 | 10691.4 | 11133.2 | 11534.8 | 11856.3 | 12123.8 | 12314.0 | 12452.2 | 12570.4 | 12591.0 |
| 70° | 9470.2 | 10039.4 | 10537.4 | 10983.4 | 11397.3 | 11724.9 | 11964.4 | 12181.9 | 12339.2 | 12430.2 | 12462.4 |
| 72.5° | 8313.5 | 8825.2 | 9328.0 | 9841.7 | 10196.8 | 10590.1 | 10787.1 | 10961.6 | 11170.9 | 11289.9 | 11263.9 |
| 75° | 6300.2 | 6742.8 | 7181.4 | 7565.8 | 7839.4 | 7984.5 | 8215.0 | 8384.0 | 8353.2 | 8553.6 | 8559.1 |
| 77.5° | 3553.8 | 3611.2 | 3908.8 | 3869.1 | 4000.4 | 4003.9 | 4038.1 | 4097.6 | 3983.4 | 4218.0 | 4049.7 |
| 80° | 861.9 | 850.3 | 911.9 | 839.4 | 833.2 | 827.0 | 806.5 | 846.8 | 852.4 | 810.6 | 818.1 |
| 82.5° | 253.1 | 242.2 | 237.4 | 231.2 | 241.5 | 238.0 | 240.2 | 241.5 | 248.4 | 239.4 | 249.0 |
| 85° | 138.8 | 130.6 | 130.0 | 126.6 | 125.8 | 118.4 | 117.6 | 117.7 | 112.9 | 114.2 | 113.6 |
| 87.5° | 53.4 | 50.0 | 47.2 | 45.2 | 44.5 | 42.4 | 40.4 | 36.9 | 32.8 | 29.4 | 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 |

(END OF REPORT)