

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: P144810

Luminaire Tested: **RDG-E04-LED-E-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P144810
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33700)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: RDG-E04-LED-E-U-RW
Description: RIDGEVIEW LED AREA ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12014.7 lumens
Efficiency: N/A
Efficacy: 123.6 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

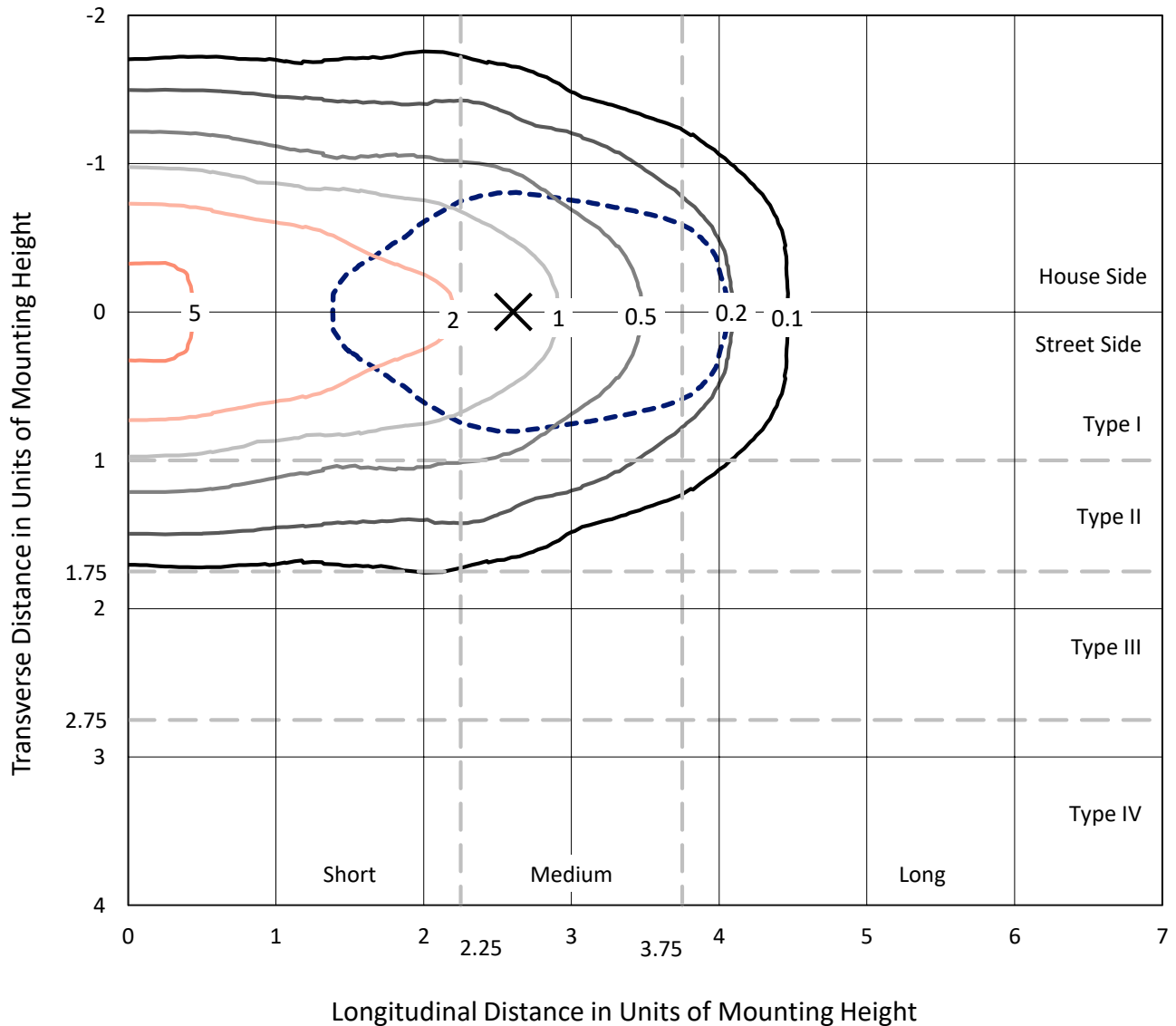
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P144810
 CATALOG NUMBER: RDG-E04-LED-E-U-RW

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

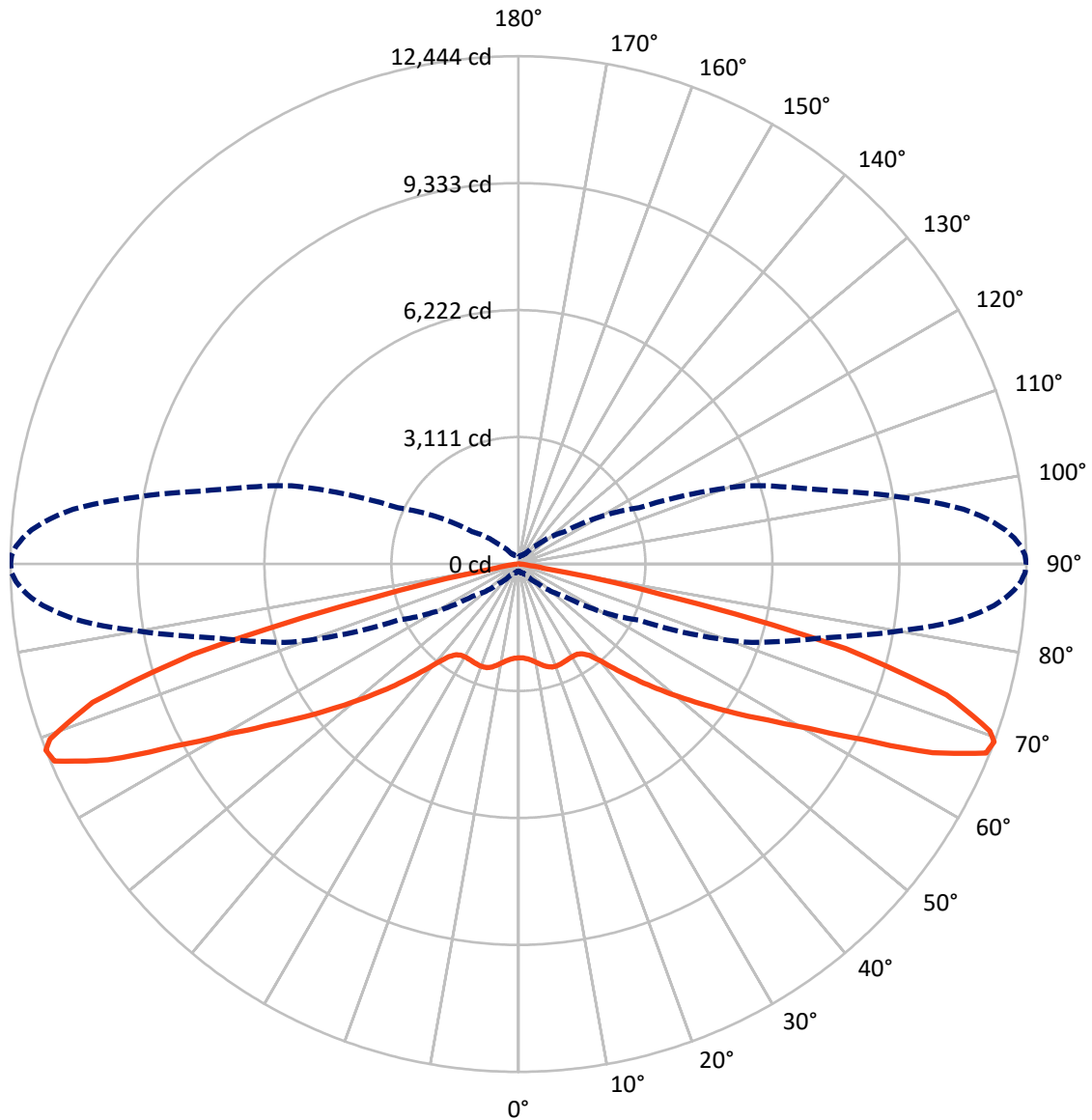


Based on 20 foot mounting height. Maximum calculated value = 5.9 fc
 Type V - Medium - Full Cutoff

REPORT NUMBER: P144810

CATALOG NUMBER: RDG-E04-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: RDG-E04-LED-E-U-RW

FLUX DISTRIBUTION:

| | | Downward | Upward | Total |
|--------------------|-----------|----------|--------|---------|
| House Side | Lumens | 6007.3 | 0.0 | 6007.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Street Side | Lumens | 6007.3 | 0.0 | 6007.3 |
| | % Fixture | 50.0 | 0.0 | 50.0 |
| Total | Lumens | 12014.7 | 0.0 | 12014.7 |
| | % Fixture | 100.0 | 0.0 | 100.0 |

ZONAL LUMENS:

| Zone | Lumens | % Fixture |
|-----------|---------|-----------|
| 0°-10° | 225.1 | 1.9 |
| 10°-20° | 709.0 | 5.9 |
| 20°-30° | 1148.2 | 9.6 |
| 30°-40° | 1430.4 | 11.9 |
| 40°-50° | 1780.7 | 14.8 |
| 50°-60° | 2185.0 | 18.2 |
| 60°-70° | 2694.7 | 22.4 |
| 70°-80° | 1675.2 | 13.9 |
| 80°-90° | 166.4 | 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° | 12014.7 | 100.0 |
| 0°-180° | 12014.7 | 100.0 |

Coefficient of Utilization



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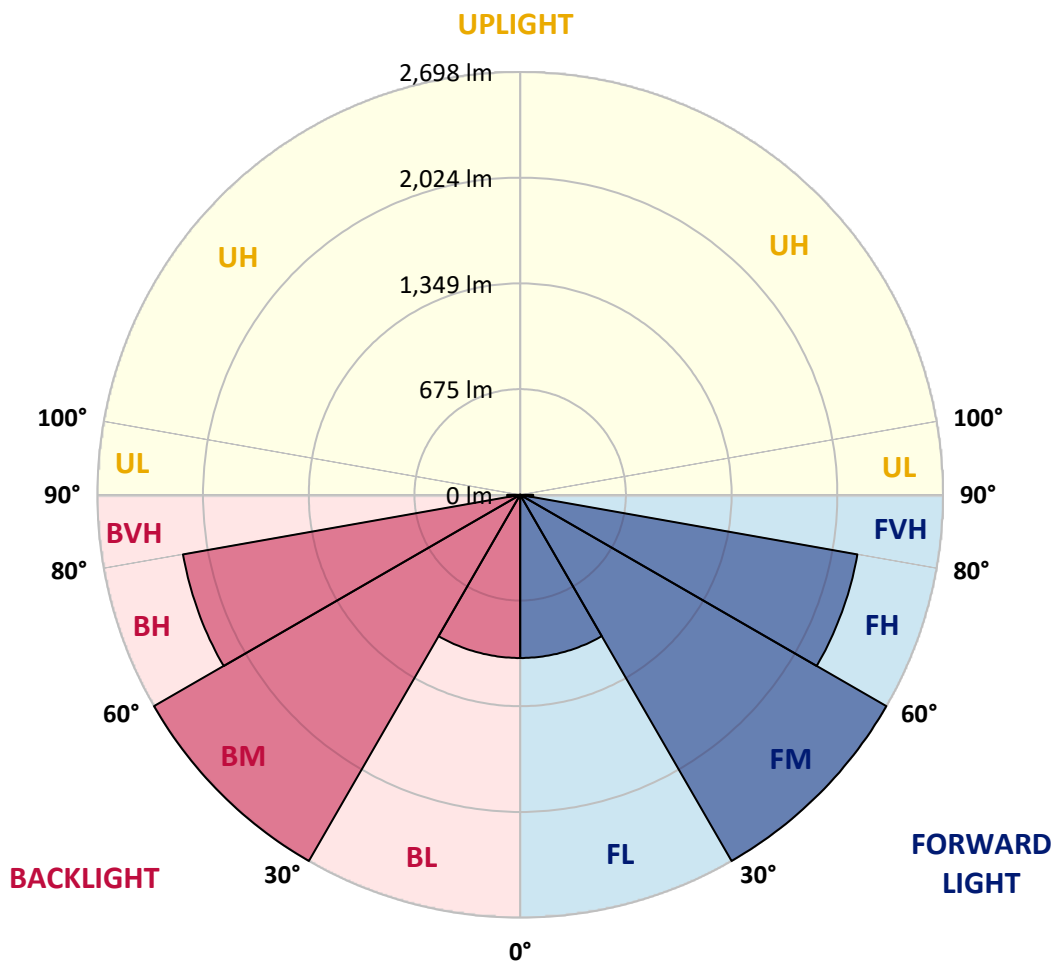
CATALOG NUMBER: RDG-E04-LED-E-U-RW

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

| Zone | Lumens | % Fixture | Zone Rating/Lumen Limit | | |
|----------------|--------|-----------|-------------------------|------|---------|
| | | | B | U | G |
| FL (0°-30°) | 1041.1 | 8.7 | | | |
| FM (30°-60°) | 2698.0 | 22.5 | | | |
| FH (60°-80°) | 2185.0 | 18.2 | | | G2/5000 |
| FVH (80°-90°) | 83.2 | 0.7 | | | G1/100 |
| BL (0°-30°) | 1041.1 | 8.7 | B3/2500 | | |
| BM (30°-60°) | 2698.0 | 22.5 | B3/5000 | | |
| BH (60°-80°) | 2185.0 | 18.2 | B3/2500 | | G2/5000 |
| BVH (80°-90°) | 83.2 | 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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CATALOG NUMBER: RDG-E04-LED-E-U-RW

CANDELA DISTRIBUTION (FULL):

| | 0° | 5° | 15° | 25° | 35° | 45° | 55° | 65° | 66° | 67° | 68° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 |
| 2.5° | 2306.8 | 2304.4 | 2308.8 | 2312.8 | 2311.6 | 2312.4 | 2310.8 | 2308.8 | 2309.0 | 2309.1 | 2309.3 |
| 5° | 2324.8 | 2322.4 | 2326.4 | 2330.0 | 2331.2 | 2334.0 | 2334.8 | 2333.6 | 2334.2 | 2334.7 | 2335.3 |
| 7.5° | 2346.4 | 2344.4 | 2349.6 | 2354.4 | 2363.6 | 2368.4 | 2373.2 | 2378.0 | 2378.4 | 2378.8 | 2379.2 |
| 10° | 2366.8 | 2365.6 | 2374.0 | 2384.4 | 2399.2 | 2410.4 | 2424.0 | 2437.2 | 2438.2 | 2439.3 | 2440.3 |
| 12.5° | 2380.0 | 2380.0 | 2392.8 | 2411.6 | 2437.2 | 2460.0 | 2483.2 | 2505.6 | 2507.7 | 2509.8 | 2511.8 |
| 15° | 2379.2 | 2380.8 | 2400.4 | 2434.8 | 2478.8 | 2519.2 | 2547.6 | 2572.0 | 2574.0 | 2576.0 | 2578.0 |
| 17.5° | 2362.8 | 2363.2 | 2391.2 | 2446.0 | 2514.8 | 2574.8 | 2611.6 | 2624.8 | 2625.5 | 2626.2 | 2627.0 |
| 20° | 2316.8 | 2320.0 | 2359.6 | 2439.2 | 2542.8 | 2625.6 | 2660.4 | 2654.8 | 2653.6 | 2652.4 | 2651.2 |
| 22.5° | 2238.0 | 2242.0 | 2294.8 | 2401.6 | 2548.0 | 2658.4 | 2694.4 | 2669.2 | 2665.4 | 2661.5 | 2657.7 |
| 25° | 2128.4 | 2135.2 | 2192.4 | 2329.2 | 2512.8 | 2668.0 | 2716.4 | 2676.0 | 2670.0 | 2664.0 | 2658.0 |
| 27.5° | 2001.6 | 2004.8 | 2072.4 | 2216.0 | 2430.8 | 2636.0 | 2726.4 | 2690.0 | 2682.5 | 2675.0 | 2667.4 |
| 30° | 1854.8 | 1863.2 | 1933.6 | 2083.6 | 2315.2 | 2561.6 | 2722.4 | 2717.2 | 2708.8 | 2700.4 | 2692.0 |
| 32.5° | 1708.8 | 1716.0 | 1785.2 | 1946.8 | 2182.0 | 2458.0 | 2702.4 | 2758.4 | 2751.4 | 2744.3 | 2737.3 |
| 35° | 1561.6 | 1570.4 | 1641.6 | 1815.2 | 2049.6 | 2340.4 | 2670.8 | 2817.2 | 2814.2 | 2811.1 | 2808.1 |
| 37.5° | 1432.4 | 1438.0 | 1508.0 | 1688.4 | 1933.6 | 2232.8 | 2629.6 | 2896.0 | 2902.9 | 2909.8 | 2916.6 |
| 40° | 1300.8 | 1306.4 | 1379.6 | 1564.4 | 1826.8 | 2140.8 | 2591.6 | 2995.2 | 3014.0 | 3032.8 | 3051.6 |
| 42.5° | 1174.4 | 1179.2 | 1250.0 | 1434.4 | 1708.0 | 2061.2 | 2568.8 | 3115.2 | 3151.3 | 3187.4 | 3223.4 |
| 45° | 1044.8 | 1048.0 | 1114.4 | 1294.0 | 1572.4 | 1968.4 | 2562.8 | 3250.0 | 3302.1 | 3354.2 | 3406.2 |
| 47.5° | 917.2 | 924.8 | 993.2 | 1163.6 | 1417.6 | 1835.6 | 2554.0 | 3399.2 | 3468.2 | 3537.3 | 3606.3 |
| 50° | 795.2 | 803.6 | 874.0 | 1035.6 | 1268.0 | 1678.0 | 2509.2 | 3568.4 | 3652.6 | 3736.7 | 3820.9 |
| 52.5° | 670.8 | 679.2 | 749.6 | 904.0 | 1129.2 | 1500.4 | 2384.4 | 3746.0 | 3846.1 | 3946.2 | 4046.2 |
| 55° | 538.0 | 541.2 | 613.6 | 768.4 | 990.4 | 1351.6 | 2185.6 | 3908.8 | 4030.0 | 4151.2 | 4272.4 |
| 57.5° | 391.2 | 402.0 | 473.6 | 617.6 | 848.8 | 1220.0 | 1932.8 | 3992.0 | 4143.3 | 4294.6 | 4445.8 |
| 60° | 282.4 | 289.6 | 352.4 | 465.6 | 688.4 | 1090.8 | 1708.4 | 3931.2 | 4133.1 | 4335.0 | 4537.0 |
| 62.5° | 223.2 | 231.2 | 279.6 | 350.8 | 532.4 | 948.8 | 1562.0 | 3764.4 | 4047.7 | 4331.0 | 4614.2 |
| 65° | 197.6 | 204.8 | 249.6 | 284.8 | 407.2 | 802.8 | 1470.0 | 3599.2 | 3981.5 | 4363.8 | 4746.2 |
| 67.5° | 180.4 | 188.0 | 227.2 | 251.2 | 336.4 | 708.8 | 1426.4 | 3474.4 | 3915.9 | 4357.4 | 4799.0 |
| 69° | 172.4 | 179.2 | 215.2 | 237.6 | 317.2 | 676.8 | 1379.6 | 3263.2 | 3701.0 | 4138.7 | 4576.5 |
| 70° | 168.0 | 174.0 | 206.8 | 229.2 | 309.6 | 650.4 | 1310.4 | 3012.0 | 3434.4 | 3856.8 | 4279.2 |
| 72.5° | 155.6 | 159.6 | 187.2 | 208.0 | 283.2 | 519.2 | 988.4 | 2125.2 | 2483.3 | 2841.4 | 3199.4 |
| 75° | 138.0 | 142.8 | 167.2 | 186.4 | 216.0 | 312.0 | 618.8 | 1233.6 | 1479.0 | 1724.3 | 1969.7 |
| 77.5° | 118.4 | 124.0 | 144.0 | 174.4 | 174.0 | 203.2 | 375.6 | 708.4 | 827.6 | 946.8 | 1066.0 |
| 80° | 101.6 | 106.4 | 124.4 | 172.4 | 145.6 | 160.8 | 280.0 | 528.4 | 576.4 | 624.4 | 672.4 |
| 82.5° | 79.6 | 83.6 | 104.4 | 142.4 | 116.4 | 122.4 | 213.2 | 481.2 | 513.8 | 546.3 | 578.9 |
| 85° | 50.0 | 51.6 | 76.0 | 98.4 | 82.8 | 74.0 | 137.2 | 370.4 | 394.1 | 417.8 | 441.4 |
| 87.5° | 20.0 | 24.4 | 36.8 | 35.2 | 35.6 | 29.6 | 44.4 | 133.6 | 145.8 | 157.9 | 170.1 |
| 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: RDG-E04-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

| | 69° | 70° | 71° | 72° | 73° | 74° | 75° | 76° | 77° | 78° | 79° |
|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| 0° | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 |
| 2.5° | 2309.4 | 2309.6 | 2308.8 | 2307.6 | 2308.8 | 2307.6 | 2308.0 | 2309.2 | 2308.8 | 2308.8 | 2308.0 |
| 5° | 2335.8 | 2336.4 | 2336.4 | 2334.0 | 2335.2 | 2335.6 | 2336.0 | 2335.2 | 2335.6 | 2336.4 | 2334.8 |
| 7.5° | 2379.6 | 2380.0 | 2381.2 | 2382.4 | 2381.6 | 2382.0 | 2382.8 | 2382.0 | 2380.8 | 2383.6 | 2381.6 |
| 10° | 2441.4 | 2442.4 | 2442.4 | 2446.0 | 2444.4 | 2445.6 | 2449.2 | 2449.2 | 2447.2 | 2450.0 | 2449.2 |
| 12.5° | 2513.9 | 2516.0 | 2515.6 | 2515.2 | 2516.8 | 2518.0 | 2522.0 | 2522.8 | 2523.6 | 2528.0 | 2526.4 |
| 15° | 2580.0 | 2582.0 | 2583.6 | 2584.4 | 2587.2 | 2588.0 | 2590.4 | 2592.0 | 2593.2 | 2594.8 | 2595.6 |
| 17.5° | 2627.7 | 2628.4 | 2630.8 | 2629.6 | 2633.6 | 2632.8 | 2635.6 | 2636.8 | 2638.0 | 2640.0 | 2641.2 |
| 20° | 2650.0 | 2648.8 | 2649.2 | 2648.0 | 2648.0 | 2648.8 | 2649.2 | 2650.8 | 2650.0 | 2652.0 | 2653.6 |
| 22.5° | 2653.8 | 2650.0 | 2647.6 | 2644.8 | 2643.6 | 2641.2 | 2641.2 | 2642.0 | 2639.2 | 2641.2 | 2643.6 |
| 25° | 2652.0 | 2646.0 | 2641.6 | 2636.8 | 2632.4 | 2628.4 | 2626.0 | 2625.2 | 2623.2 | 2623.2 | 2625.2 |
| 27.5° | 2659.9 | 2652.4 | 2646.0 | 2638.0 | 2632.4 | 2626.8 | 2621.6 | 2617.6 | 2613.6 | 2612.8 | 2612.8 |
| 30° | 2683.6 | 2675.2 | 2668.0 | 2658.0 | 2649.2 | 2642.0 | 2634.8 | 2629.2 | 2621.6 | 2618.4 | 2614.8 |
| 32.5° | 2730.2 | 2723.2 | 2713.2 | 2704.4 | 2694.0 | 2685.2 | 2675.6 | 2666.8 | 2658.0 | 2650.0 | 2646.8 |
| 35° | 2805.0 | 2802.0 | 2796.4 | 2790.4 | 2780.4 | 2769.2 | 2761.2 | 2750.8 | 2740.8 | 2729.2 | 2726.0 |
| 37.5° | 2923.5 | 2930.4 | 2927.2 | 2922.8 | 2920.0 | 2916.4 | 2905.6 | 2898.8 | 2892.0 | 2882.4 | 2880.4 |
| 40° | 3070.4 | 3089.2 | 3108.0 | 3120.4 | 3116.0 | 3130.8 | 3133.2 | 3134.4 | 3128.4 | 3136.4 | 3138.0 |
| 42.5° | 3259.5 | 3295.6 | 3329.6 | 3354.4 | 3383.2 | 3404.8 | 3432.8 | 3444.8 | 3467.6 | 3491.2 | 3504.8 |
| 45° | 3458.3 | 3510.4 | 3559.2 | 3610.0 | 3660.0 | 3714.8 | 3768.0 | 3805.6 | 3860.4 | 3901.2 | 3926.8 |
| 47.5° | 3675.4 | 3744.4 | 3802.8 | 3878.8 | 3951.2 | 4016.0 | 4109.2 | 4184.0 | 4250.8 | 4314.4 | 4381.2 |
| 50° | 3905.0 | 3989.2 | 4061.2 | 4154.0 | 4242.0 | 4343.6 | 4452.8 | 4548.0 | 4652.8 | 4754.0 | 4844.0 |
| 52.5° | 4146.3 | 4246.4 | 4343.6 | 4438.8 | 4545.6 | 4656.0 | 4774.4 | 4912.0 | 5037.6 | 5190.0 | 5299.2 |
| 55° | 4393.6 | 4514.8 | 4618.4 | 4718.0 | 4831.2 | 4953.6 | 5094.4 | 5257.2 | 5416.8 | 5583.6 | 5749.2 |
| 57.5° | 4597.1 | 4748.4 | 4861.6 | 4978.0 | 5100.0 | 5221.2 | 5396.0 | 5562.8 | 5765.2 | 5970.0 | 6177.2 |
| 60° | 4738.9 | 4940.8 | 5078.0 | 5225.2 | 5366.4 | 5513.6 | 5702.0 | 5912.8 | 6166.0 | 6414.0 | 6695.6 |
| 62.5° | 4897.5 | 5180.8 | 5373.2 | 5569.6 | 5741.2 | 5918.0 | 6170.0 | 6412.8 | 6738.0 | 7023.6 | 7378.0 |
| 65° | 5128.5 | 5510.8 | 5794.0 | 6058.8 | 6289.2 | 6530.0 | 6828.8 | 7132.4 | 7504.4 | 7899.2 | 8343.6 |
| 67.5° | 5240.5 | 5682.0 | 6052.8 | 6379.6 | 6674.0 | 6980.8 | 7289.2 | 7648.4 | 8067.6 | 8542.8 | 9030.8 |
| 69° | 5014.2 | 5452.0 | 5878.4 | 6208.8 | 6518.8 | 6846.4 | 7176.4 | 7538.8 | 7951.6 | 8444.8 | 8962.0 |
| 70° | 4701.6 | 5124.0 | 5577.2 | 5908.4 | 6221.2 | 6561.2 | 6897.2 | 7263.2 | 7658.0 | 8166.0 | 8689.2 |
| 72.5° | 3557.5 | 3915.6 | 4355.6 | 4705.6 | 5034.4 | 5378.0 | 5724.0 | 6041.6 | 6442.0 | 6930.8 | 7412.8 |
| 75° | 2215.0 | 2460.4 | 2856.0 | 3207.6 | 3472.0 | 3766.4 | 4091.2 | 4392.0 | 4794.0 | 5140.4 | 5604.0 |
| 77.5° | 1185.2 | 1304.4 | 1535.2 | 1787.2 | 1934.4 | 2078.0 | 2289.6 | 2452.8 | 2622.0 | 2822.4 | 3014.0 |
| 80° | 720.4 | 768.4 | 847.2 | 901.6 | 881.2 | 822.4 | 803.6 | 744.8 | 766.0 | 730.0 | 704.0 |
| 82.5° | 611.4 | 644.0 | 692.0 | 724.8 | 700.8 | 606.8 | 500.4 | 421.2 | 365.2 | 311.6 | 264.8 |
| 85° | 465.1 | 488.8 | 513.6 | 528.4 | 527.2 | 480.4 | 381.6 | 295.6 | 230.4 | 178.4 | 148.4 |
| 87.5° | 182.2 | 194.4 | 212.4 | 209.6 | 218.8 | 220.4 | 172.4 | 133.2 | 94.8 | 64.0 | 56.0 |
| 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: RDG-E04-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

| | 80° | 81° | 82° | 83° | 84° | 85° | 86° | 87° | 88° | 89° | 90° |
|-------|--------|---------|---------|---------|---------|---------|---------|---------|---------|---------|---------|
| 0° | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 | 2300.8 |
| 2.5° | 2306.4 | 2306.0 | 2306.4 | 2307.6 | 2307.6 | 2308.4 | 2307.6 | 2308.0 | 2306.8 | 2305.6 | 2306.4 |
| 5° | 2334.8 | 2334.0 | 2334.8 | 2335.6 | 2335.6 | 2334.8 | 2336.8 | 2336.8 | 2336.0 | 2334.8 | 2335.2 |
| 7.5° | 2383.6 | 2384.0 | 2382.8 | 2386.8 | 2383.2 | 2383.6 | 2386.0 | 2385.6 | 2384.8 | 2385.2 | 2385.6 |
| 10° | 2451.6 | 2451.2 | 2452.0 | 2454.4 | 2450.8 | 2453.2 | 2456.0 | 2456.8 | 2454.8 | 2454.8 | 2455.2 |
| 12.5° | 2526.8 | 2530.0 | 2530.4 | 2532.0 | 2532.0 | 2534.0 | 2534.4 | 2534.8 | 2536.4 | 2536.8 | 2534.4 |
| 15° | 2598.8 | 2601.2 | 2602.8 | 2604.4 | 2602.4 | 2605.2 | 2608.4 | 2608.4 | 2608.0 | 2609.6 | 2607.2 |
| 17.5° | 2643.2 | 2645.2 | 2648.0 | 2647.6 | 2648.0 | 2650.4 | 2652.4 | 2653.2 | 2654.0 | 2654.0 | 2654.4 |
| 20° | 2657.2 | 2658.4 | 2660.0 | 2661.6 | 2662.4 | 2664.8 | 2666.4 | 2667.6 | 2668.4 | 2667.6 | 2668.0 |
| 22.5° | 2646.0 | 2647.6 | 2650.8 | 2652.0 | 2652.4 | 2656.0 | 2657.6 | 2658.8 | 2659.6 | 2660.4 | 2659.2 |
| 25° | 2626.8 | 2628.4 | 2631.6 | 2632.8 | 2633.6 | 2636.8 | 2638.8 | 2641.6 | 2642.4 | 2642.8 | 2643.2 |
| 27.5° | 2613.6 | 2614.4 | 2616.8 | 2618.4 | 2618.8 | 2622.4 | 2625.2 | 2627.2 | 2627.6 | 2628.0 | 2628.0 |
| 30° | 2614.0 | 2614.0 | 2616.8 | 2617.2 | 2616.8 | 2620.0 | 2621.6 | 2622.8 | 2623.6 | 2623.6 | 2624.0 |
| 32.5° | 2641.6 | 2640.0 | 2642.4 | 2638.8 | 2639.2 | 2638.8 | 2638.4 | 2639.6 | 2638.8 | 2639.2 | 2637.6 |
| 35° | 2719.6 | 2715.2 | 2711.6 | 2713.2 | 2707.6 | 2699.6 | 2704.0 | 2702.0 | 2697.6 | 2698.0 | 2699.2 |
| 37.5° | 2869.2 | 2864.8 | 2868.8 | 2865.2 | 2866.4 | 2855.2 | 2858.0 | 2848.0 | 2845.2 | 2848.8 | 2838.4 |
| 40° | 3134.8 | 3132.8 | 3140.4 | 3137.2 | 3139.2 | 3142.4 | 3145.2 | 3135.6 | 3119.6 | 3134.0 | 3134.4 |
| 42.5° | 3502.8 | 3520.8 | 3528.0 | 3538.0 | 3548.8 | 3544.0 | 3553.6 | 3556.4 | 3538.8 | 3552.0 | 3555.2 |
| 45° | 3964.4 | 3983.6 | 4006.0 | 4012.8 | 4030.4 | 4032.8 | 4040.0 | 4042.0 | 4026.0 | 4027.6 | 4031.2 |
| 47.5° | 4448.0 | 4483.2 | 4509.6 | 4528.0 | 4546.4 | 4550.0 | 4554.0 | 4546.4 | 4547.6 | 4551.2 | 4551.2 |
| 50° | 4923.2 | 4998.4 | 5045.2 | 5081.6 | 5113.2 | 5096.8 | 5110.8 | 5112.0 | 5116.8 | 5106.8 | 5112.8 |
| 52.5° | 5422.8 | 5522.4 | 5600.8 | 5662.0 | 5681.2 | 5739.6 | 5715.6 | 5734.0 | 5746.4 | 5728.0 | 5740.0 |
| 55° | 5910.8 | 6052.8 | 6178.8 | 6267.6 | 6330.0 | 6389.2 | 6398.4 | 6446.0 | 6440.4 | 6458.4 | 6450.4 |
| 57.5° | 6374.8 | 6573.2 | 6753.2 | 6884.8 | 6974.4 | 7064.8 | 7126.0 | 7178.0 | 7183.2 | 7234.8 | 7205.6 |
| 60° | 6936.0 | 7212.4 | 7444.0 | 7640.0 | 7772.4 | 7906.8 | 8012.8 | 8098.0 | 8117.6 | 8206.0 | 8176.8 |
| 62.5° | 7693.2 | 8030.4 | 8326.4 | 8556.4 | 8851.2 | 8993.2 | 9199.6 | 9328.4 | 9408.8 | 9430.8 | 9472.0 |
| 65° | 8757.6 | 9196.8 | 9587.2 | 9955.2 | 10286.8 | 10516.8 | 10755.6 | 10947.6 | 11101.6 | 11088.8 | 11152.0 |
| 67.5° | 9548.4 | 10049.2 | 10519.2 | 10960.4 | 11317.2 | 11613.2 | 11887.6 | 12095.2 | 12232.8 | 12320.4 | 12357.6 |
| 69° | 9466.0 | 10003.6 | 10522.0 | 10993.2 | 11361.2 | 11692.0 | 11959.2 | 12163.6 | 12321.2 | 12416.4 | 12444.0 |
| 70° | 9192.0 | 9744.4 | 10284.8 | 10747.2 | 11122.4 | 11485.6 | 11757.6 | 11985.2 | 12135.2 | 12239.2 | 12255.2 |
| 72.5° | 7950.8 | 8549.2 | 9027.2 | 9531.6 | 9892.8 | 10260.4 | 10431.6 | 10713.6 | 10909.2 | 10972.4 | 10971.2 |
| 75° | 5996.8 | 6496.0 | 6916.0 | 7288.8 | 7612.0 | 7861.2 | 7942.0 | 8142.8 | 8305.2 | 8303.2 | 8288.0 |
| 77.5° | 3229.2 | 3346.8 | 3504.0 | 3556.8 | 3656.4 | 3654.8 | 3554.8 | 3586.4 | 3678.4 | 3500.0 | 3557.6 |
| 80° | 692.8 | 682.4 | 673.6 | 668.4 | 665.6 | 666.8 | 670.4 | 647.6 | 670.0 | 660.0 | 617.6 |
| 82.5° | 241.2 | 235.6 | 230.0 | 234.0 | 231.2 | 233.6 | 232.8 | 235.6 | 235.2 | 234.4 | 228.8 |
| 85° | 135.6 | 130.8 | 128.0 | 130.0 | 125.6 | 121.6 | 118.8 | 117.6 | 117.2 | 114.4 | 112.8 |
| 87.5° | 51.6 | 51.2 | 50.8 | 48.8 | 44.0 | 40.4 | 38.0 | 33.2 | 31.2 | 28.4 | 26.4 |
| 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)