

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: P670643

Luminaire Tested: **VAL-E04-LED-EU-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P670643
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: VAL-E04-LED-EU-RW-7050
Description: VALET LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12328.3 lumens
Efficiency: N/A
Efficacy: 126.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B3 - U0 - G3

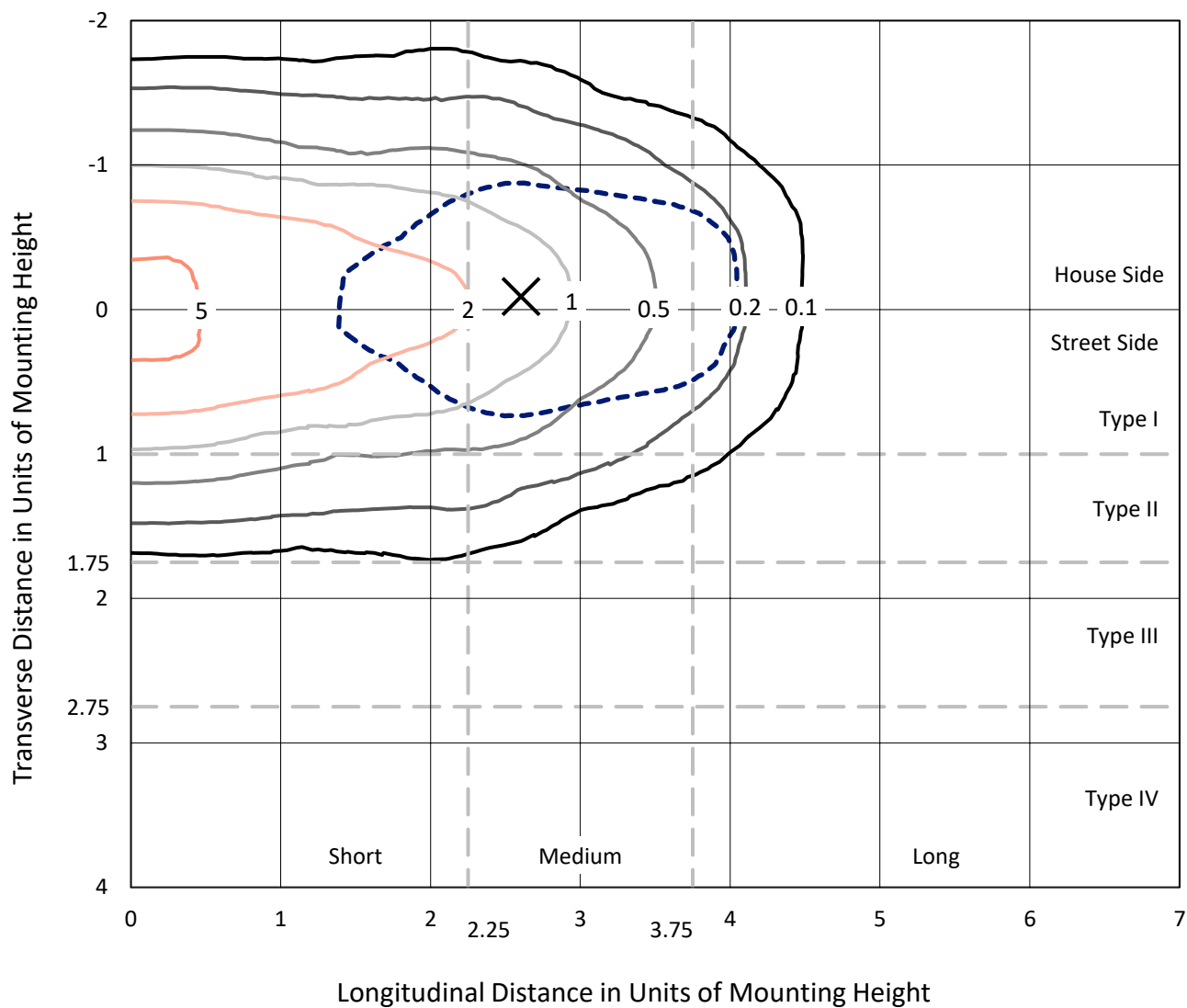
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



REPORT NUMBER: P670643
 CATALOG NUMBER: VAL-E04-LED-EU-RW-7050

Iso-Footcandle Lines of Horizontal Illumination

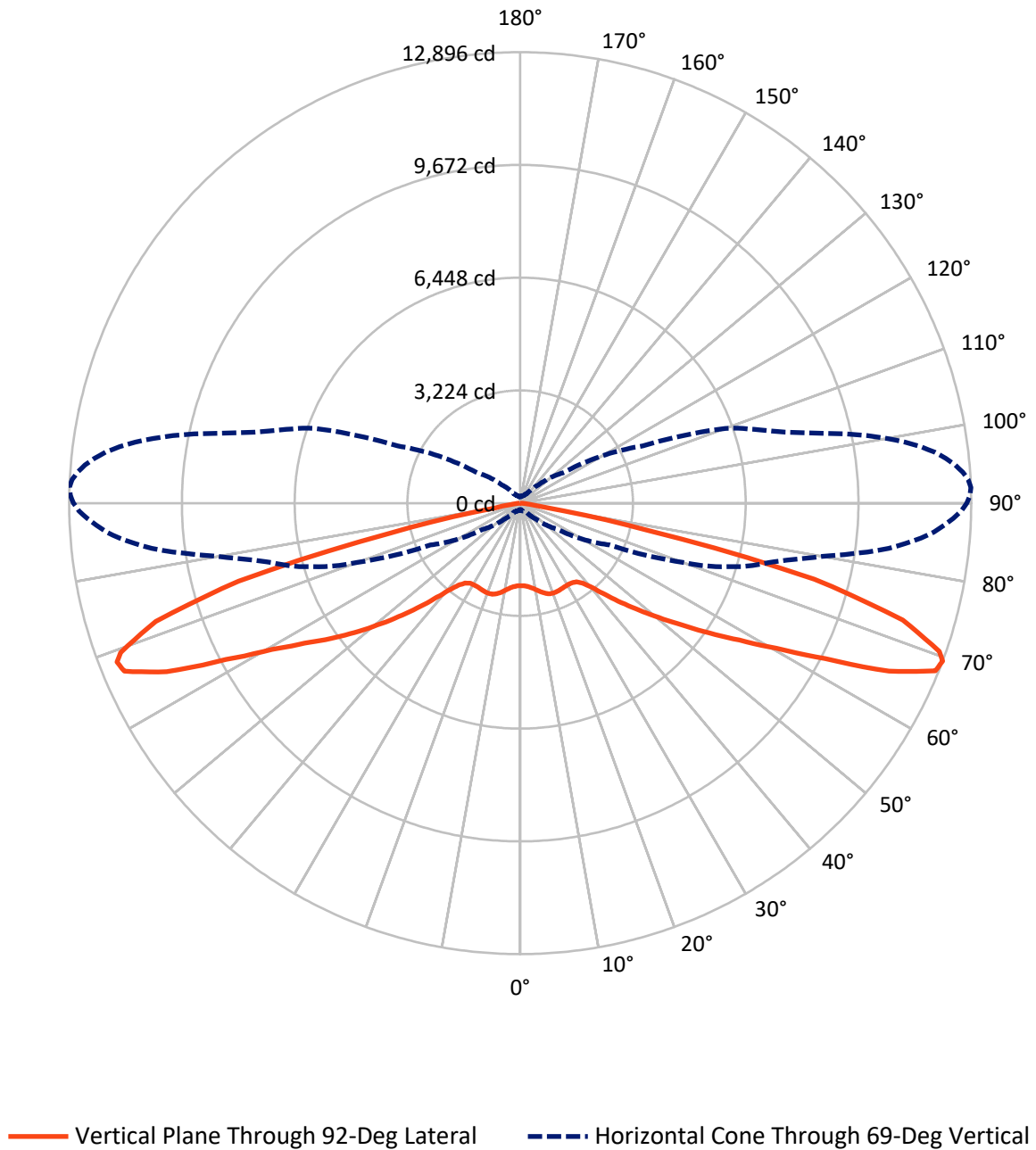
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 6 fc
 Type I - Short - N/A

REPORT NUMBER: P670643
CATALOG NUMBER: VAL-E04-LED-EU-RW-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P670643

CATALOG NUMBER: VAL-E04-LED-EU-RW-7050

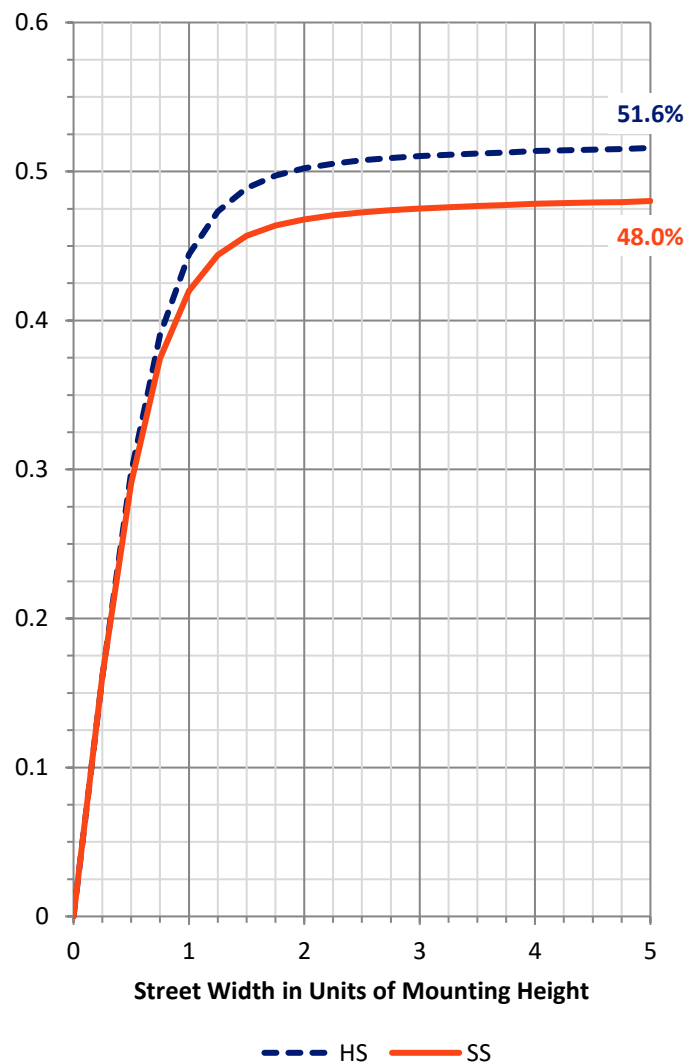
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6412.7	0.0	6412.7
	% Fixture	52.0	0.0	52.0
Street Side	Lumens	5915.6	0.0	5915.6
	% Fixture	48.0	0.0	48.0
Total	Lumens	12328.3	0.0	12328.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	231.0	1.9
10°-20°	727.5	5.9
20°-30°	1178.2	9.6
30°-40°	1467.7	11.9
40°-50°	1827.2	14.8
50°-60°	2242.0	18.2
60°-70°	2765.1	22.4
70°-80°	1718.9	13.9
80°-90°	170.7	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°	12328.3	100.0
0°-180°	12328.3	100.0

Coefficient of Utilization



REPORT NUMBER: P670643

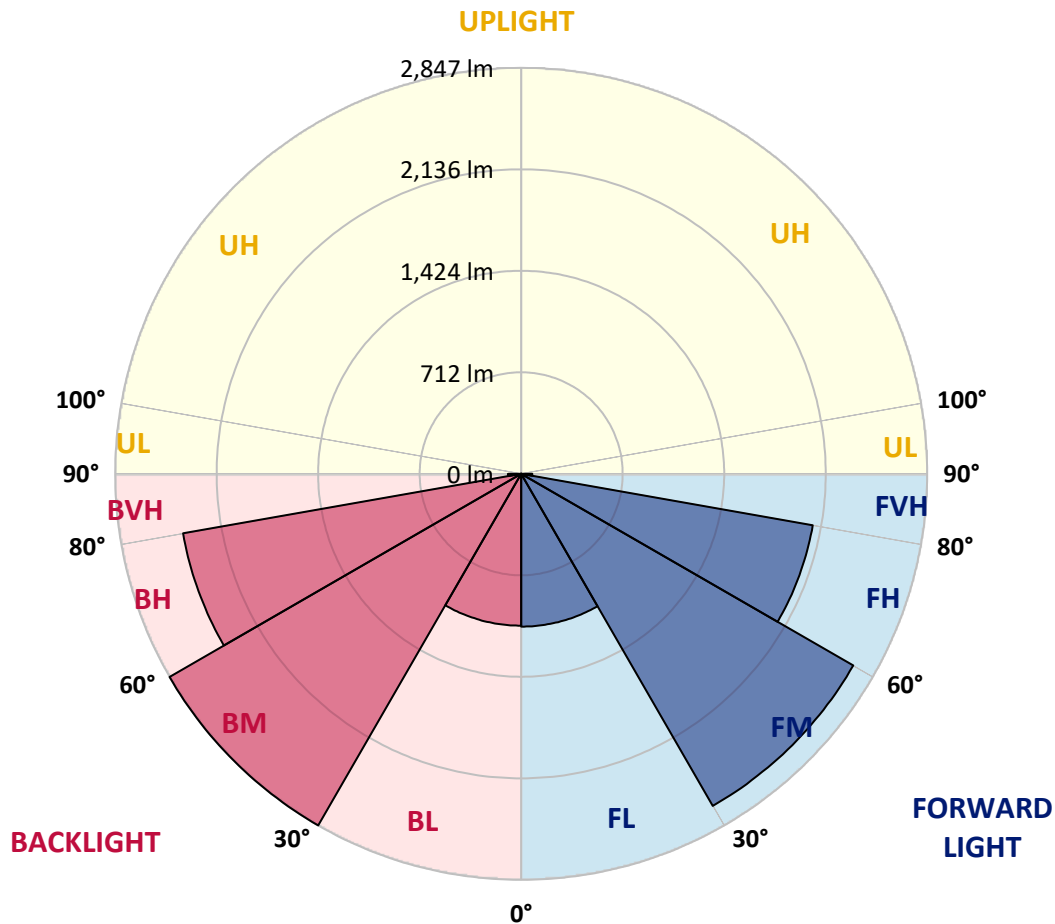
CATALOG NUMBER: VAL-E04-LED-EU-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1071.6	8.7			
FM	(30°-60°)	2689.4	21.8			
FH	(60°-80°)	2076.5	16.8			G2/5000
FVH	(80°-90°)	78.1	0.6			G1/100
BL	(0°-30°)	1065.0	8.6	B3/2500		
BM	(30°-60°)	2847.5	23.1	B3/5000		
BH	(60°-80°)	2407.6	19.5	B3/2500		G3/2500
BVH	(80°-90°)	92.7	0.8			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type I Short



REPORT NUMBER: P670643

CATALOG NUMBER: VAL-E04-LED-EU-RW-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9
2.5°	2401.9	2399.4	2405.2	2407.7	2402.7	2400.3	2393.7	2385.5	2385.5	2383.0	2380.6
5°	2436.4	2432.3	2438.0	2439.7	2437.2	2435.6	2429.8	2419.1	2420.8	2418.3	2413.4
7.5°	2464.3	2457.7	2465.1	2468.4	2475.0	2476.6	2474.1	2469.2	2468.4	2466.8	2467.6
10°	2486.5	2480.7	2492.2	2501.2	2512.7	2518.5	2528.3	2531.6	2531.6	2533.2	2536.5
12.5°	2498.0	2492.2	2510.3	2528.3	2551.3	2571.8	2587.4	2599.7	2605.5	2604.7	2603.8
15°	2487.3	2483.2	2508.6	2546.4	2590.7	2632.6	2654.7	2666.2	2671.2	2672.8	2672.8
17.5°	2450.3	2445.4	2479.9	2542.3	2619.4	2685.9	2723.7	2722.9	2717.9	2718.8	2716.3
20°	2376.5	2374.8	2420.0	2507.0	2628.5	2732.7	2777.1	2759.8	2740.9	2737.6	2734.4
22.5°	2269.7	2270.6	2323.9	2433.9	2604.7	2752.4	2812.3	2785.3	2750.8	2744.2	2739.3
25°	2136.8	2139.2	2195.9	2329.7	2530.0	2735.2	2826.3	2803.3	2763.9	2755.7	2747.5
27.5°	1993.9	1989.0	2058.0	2191.8	2413.4	2665.4	2818.1	2830.4	2792.6	2784.4	2773.8
30°	1836.3	1838.8	1911.8	2053.9	2278.8	2549.7	2790.2	2860.8	2837.0	2831.2	2818.9
32.5°	1688.6	1691.0	1756.7	1919.2	2148.3	2418.3	2744.2	2893.6	2896.9	2891.2	2884.6
35°	1536.7	1546.5	1618.0	1787.1	2024.3	2293.6	2685.1	2937.1	2972.4	2976.5	2978.2
37.5°	1403.7	1411.9	1480.9	1660.6	1911.0	2200.0	2620.3	2996.2	3085.7	3098.0	3108.7
40°	1265.8	1273.2	1345.4	1532.6	1800.2	2123.6	2571.0	3075.9	3221.2	3254.8	3277.8
42.5°	1144.3	1148.4	1214.1	1392.2	1667.2	2038.3	2545.6	3173.5	3396.0	3439.5	3470.7
45°	1018.7	1018.7	1081.1	1246.9	1519.5	1920.0	2535.7	3284.4	3584.0	3633.2	3689.9
47.5°	889.8	896.4	963.7	1127.1	1360.2	1750.9	2501.2	3412.4	3795.8	3852.4	3931.2
50°	763.4	774.9	844.7	999.8	1219.8	1583.5	2396.2	3559.4	4028.9	4106.1	4190.6
52.5°	633.7	646.0	712.5	866.0	1084.4	1417.7	2187.7	3715.3	4276.0	4372.0	4464.8
55°	505.7	506.5	573.0	723.2	942.4	1287.1	1944.7	3822.0	4518.1	4636.4	4725.8
57.5°	364.5	371.9	434.2	573.8	802.8	1162.4	1732.9	3813.0	4716.8	4842.4	4963.1
60°	266.8	273.4	329.2	429.3	634.5	1031.0	1578.6	3604.5	4836.7	5002.5	5160.9
62.5°	225.7	234.0	279.9	334.1	486.0	889.8	1454.6	3283.5	5002.5	5223.3	5444.1
65°	204.4	211.8	260.2	288.1	380.9	747.0	1377.4	3047.1	5207.7	5550.0	5856.2
67.5°	188.8	196.2	238.1	259.4	326.7	671.5	1348.7	2988.8	5247.9	5706.8	6102.5
69°	180.6	188.0	224.9	246.3	314.4	650.1	1300.3	2827.1	4945.0	5478.6	5875.1
70°	175.7	182.2	215.9	237.2	308.7	628.0	1224.8	2598.9	4573.1	5133.8	5531.1
72.5°	161.7	166.6	194.5	213.4	282.4	495.0	907.9	1769.0	3338.5	3857.3	4267.0
75°	142.0	148.6	170.7	188.8	215.9	290.6	569.7	1017.9	1996.4	2368.3	2755.7
77.5°	121.5	128.1	146.1	179.0	176.5	199.5	357.1	628.0	1031.9	1218.2	1460.4
80°	104.3	109.2	126.4	170.7	146.1	159.3	268.4	489.2	672.3	730.6	778.2
82.5°	80.4	85.4	105.1	138.7	117.4	118.2	201.1	453.1	585.3	631.3	659.2
85°	51.7	52.5	77.2	93.6	83.7	69.0	124.8	331.6	436.7	470.4	473.7
87.5°	17.2	21.3	32.0	27.1	31.2	26.3	36.1	101.8	161.7	169.1	169.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P670643

CATALOG NUMBER: VAL-E04-LED-EU-RW-7050

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9
2.5°	2380.6	2379.7	2379.7	2380.6	2379.7	2378.9	2378.1	2374.8	2373.2	2371.5	2371.5
5°	2414.2	2414.2	2414.2	2411.8	2411.8	2412.6	2409.3	2407.7	2404.4	2404.4	2401.9
7.5°	2465.1	2466.8	2465.1	2463.5	2461.8	2461.8	2458.5	2460.2	2459.4	2457.7	2457.7
10°	2530.8	2533.2	2534.9	2534.1	2530.0	2529.1	2530.0	2530.8	2528.3	2526.7	2529.1
12.5°	2602.2	2605.5	2607.9	2607.9	2606.3	2610.4	2607.9	2607.1	2607.1	2606.3	2607.9
15°	2674.4	2673.6	2674.4	2674.4	2675.3	2673.6	2675.3	2676.9	2677.7	2676.1	2679.4
17.5°	2717.9	2715.5	2715.5	2716.3	2713.8	2713.8	2713.8	2717.1	2717.1	2718.8	2717.9
20°	2731.1	2730.3	2726.2	2725.3	2719.6	2721.2	2721.2	2722.9	2722.9	2722.9	2725.3
22.5°	2732.7	2725.3	2720.4	2715.5	2707.3	2706.5	2706.5	2705.6	2705.6	2706.5	2707.3
25°	2738.5	2727.0	2717.9	2708.9	2699.9	2693.3	2690.0	2685.9	2683.5	2683.5	2681.8
27.5°	2763.1	2749.1	2736.0	2723.7	2708.9	2699.1	2690.0	2682.7	2675.3	2672.0	2667.9
30°	2806.6	2792.6	2778.7	2764.7	2744.2	2731.1	2716.3	2702.4	2692.5	2685.1	2676.9
32.5°	2873.9	2864.9	2849.3	2833.7	2815.6	2795.9	2782.8	2761.5	2746.7	2737.6	2719.6
35°	2970.8	2967.5	2960.9	2948.6	2928.9	2914.1	2900.2	2880.5	2860.8	2840.3	2832.1
37.5°	3112.0	3118.5	3109.5	3108.7	3105.4	3092.3	3085.7	3061.9	3048.8	3032.3	3020.0
40°	3286.8	3307.3	3322.9	3332.0	3341.8	3352.5	3351.7	3343.5	3332.0	3332.8	3322.1
42.5°	3505.2	3541.3	3575.0	3593.8	3637.3	3671.8	3701.4	3720.2	3728.5	3746.5	3754.7
45°	3738.3	3795.8	3845.8	3891.8	3966.5	4024.0	4096.2	4151.2	4181.6	4235.8	4234.1
47.5°	3997.7	4058.5	4125.8	4210.3	4280.9	4377.0	4475.5	4587.1	4653.6	4726.7	4777.5
50°	4267.0	4348.2	4431.1	4509.9	4619.9	4747.2	4876.1	5004.9	5121.5	5234.0	5314.4
52.5°	4552.6	4644.6	4729.9	4835.8	4959.0	5119.0	5262.7	5421.9	5581.2	5740.4	5845.5
55°	4834.2	4931.9	5022.2	5146.9	5298.8	5460.5	5631.3	5829.9	6031.0	6239.5	6376.6
57.5°	5079.6	5169.1	5296.3	5409.6	5576.3	5756.0	5962.9	6201.0	6450.5	6708.3	6897.1
60°	5306.2	5426.0	5558.2	5691.2	5893.1	6098.3	6361.0	6643.4	6961.9	7255.0	7544.7
62.5°	5630.4	5785.6	5990.8	6149.2	6384.8	6616.3	6924.2	7289.5	7685.1	8078.3	8382.9
65°	6118.1	6351.2	6606.5	6808.4	7086.7	7401.1	7780.3	8240.0	8749.8	9235.8	9654.4
67.5°	6437.4	6746.8	7018.6	7296.0	7605.5	7963.4	8392.7	8926.3	9509.1	10073.1	10632.9
69°	6217.4	6573.6	6879.8	7152.4	7451.2	7809.1	8280.3	8778.5	9385.2	10023.0	10614.9
70°	5874.2	6251.0	6583.5	6847.0	7143.3	7499.6	7982.3	8465.0	9077.3	9751.3	10300.5
72.5°	4619.9	5028.7	5371.0	5614.8	5911.2	6254.3	6696.8	7236.1	7867.4	8465.8	9069.1
75°	3057.0	3406.7	3753.9	3977.2	4246.4	4601.9	4945.8	5417.0	5931.7	6443.1	6813.3
77.5°	1630.3	1827.3	2074.4	2204.1	2412.6	2579.2	2687.6	3066.8	3150.6	3319.7	3335.3
80°	772.5	736.3	720.7	682.2	713.3	705.1	656.7	683.0	670.7	633.7	623.9
82.5°	645.2	571.3	469.5	392.4	344.0	295.5	248.7	231.5	228.2	220.8	229.0
85°	475.3	448.2	366.1	277.5	220.8	165.0	142.8	129.7	125.6	122.3	126.4
87.5°	179.8	178.1	151.9	124.8	86.2	56.6	51.7	46.8	47.6	46.0	46.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P670643

CATALOG NUMBER: VAL-E04-LED-EU-RW-7050

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9
2.5°	2369.9	2371.5	2369.9	2369.1	2366.6	2365.8	2366.6	2365.8	2367.4	2367.4	2365.8
5°	2401.9	2401.9	2401.9	2400.3	2397.8	2397.8	2396.2	2393.7	2396.2	2395.3	2393.7
7.5°	2454.4	2452.0	2452.8	2451.2	2447.1	2449.5	2447.9	2445.4	2447.1	2444.6	2443.8
10°	2525.0	2524.2	2525.0	2521.8	2520.1	2520.9	2519.3	2516.8	2517.7	2520.1	2515.2
12.5°	2608.8	2606.3	2605.5	2604.7	2603.0	2602.2	2600.6	2603.8	2602.2	2597.3	2595.6
15°	2675.3	2679.4	2679.4	2677.7	2676.9	2677.7	2675.3	2677.7	2675.3	2675.3	2673.6
17.5°	2717.1	2721.2	2722.1	2722.1	2722.1	2722.1	2723.7	2724.5	2724.5	2722.9	2721.2
20°	2725.3	2729.4	2730.3	2732.7	2734.4	2735.2	2737.6	2739.3	2741.8	2741.8	2741.8
22.5°	2708.1	2713.0	2715.5	2717.9	2722.1	2726.2	2728.6	2733.5	2736.0	2738.5	2738.5
25°	2683.5	2686.8	2690.9	2696.6	2702.4	2707.3	2712.2	2716.3	2720.4	2724.5	2724.5
27.5°	2667.1	2670.3	2674.4	2679.4	2685.1	2690.9	2696.6	2702.4	2707.3	2712.2	2713.0
30°	2671.2	2672.0	2672.8	2676.1	2681.8	2686.8	2692.5	2697.4	2702.4	2706.5	2707.3
32.5°	2713.0	2706.5	2699.9	2700.7	2700.7	2704.0	2706.5	2712.2	2714.7	2716.3	2714.7
35°	2811.5	2788.5	2786.9	2780.3	2770.5	2769.7	2769.7	2767.2	2765.6	2764.7	2762.3
37.5°	3004.4	2973.2	2967.5	2946.2	2935.5	2931.4	2912.5	2915.0	2903.5	2898.5	2897.7
40°	3302.4	3290.9	3281.1	3257.3	3230.2	3235.1	3216.2	3196.5	3171.9	3177.6	3173.5
42.5°	3746.5	3739.9	3733.4	3712.0	3685.8	3666.9	3648.0	3622.6	3576.6	3586.4	3559.4
45°	4267.8	4280.1	4265.3	4254.6	4207.0	4173.4	4136.4	4092.1	4055.2	4040.4	4025.6
47.5°	4816.1	4828.4	4824.3	4799.7	4762.0	4714.3	4670.0	4625.7	4570.7	4530.5	4521.4
50°	5376.8	5373.5	5399.0	5380.9	5365.3	5287.3	5246.3	5192.9	5135.5	5110.0	5089.5
52.5°	5911.2	6001.5	5999.0	5995.7	6007.2	5932.5	5889.8	5822.5	5785.6	5771.6	5730.6
55°	6482.5	6568.7	6635.2	6659.0	6664.8	6661.5	6618.8	6592.5	6552.3	6569.5	6495.7
57.5°	7038.3	7177.0	7287.0	7346.9	7351.8	7436.4	7393.7	7410.9	7389.6	7383.9	7337.1
60°	7723.7	7887.1	8075.0	8207.2	8233.5	8395.2	8390.3	8445.3	8425.6	8411.6	8368.9
62.5°	8735.0	8926.3	9183.2	9384.3	9525.5	9616.7	9719.3	9737.3	9783.3	9759.5	9696.3
65°	10118.2	10347.2	10698.6	10974.4	11196.0	11253.5	11443.1	11503.1	11586.8	11492.4	11374.2
67.5°	11098.4	11470.2	11813.3	12106.4	12299.3	12504.5	12680.2	12779.5	12805.0	12715.5	12582.5
69°	11074.6	11501.4	11855.2	12136.0	12389.6	12616.2	12768.9	12864.9	12896.1	12826.3	12687.6
70°	10793.0	11260.9	11625.4	11930.7	12191.8	12441.3	12575.1	12676.1	12712.2	12665.4	12503.7
72.5°	9422.9	9941.7	10182.2	10582.0	10953.1	11159.1	11257.6	11358.6	11434.9	11404.5	11225.6
75°	7323.1	7617.8	7747.5	8031.5	8359.1	8471.5	8504.4	8568.4	8685.0	8679.2	8551.2
77.5°	3639.8	3597.1	3554.4	3584.0	3821.2	3541.3	3650.5	3641.4	3727.6	3776.1	3740.8
80°	655.9	673.9	689.5	646.0	708.4	680.5	633.7	673.9	666.6	683.0	686.3
82.5°	228.2	232.3	234.0	239.7	240.5	238.1	234.8	243.0	242.2	243.8	243.8
85°	123.1	124.0	120.7	120.7	117.4	116.6	115.7	118.2	123.1	120.7	123.1
87.5°	41.9	41.0	37.8	34.5	32.0	29.6	27.1	28.7	32.0	33.7	40.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P670643

CATALOG NUMBER: VAL-E04-LED-EU-RW-7050

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9
2.5°	2365.8	2365.8	2364.1	2361.7	2359.2	2358.4	2358.4	2359.2	2358.4	2358.4	2356.8
5°	2389.6	2391.2	2391.2	2387.1	2385.5	2383.8	2382.2	2382.2	2381.4	2380.6	2379.7
7.5°	2439.7	2436.4	2440.5	2432.3	2433.1	2431.5	2429.0	2429.8	2424.1	2424.9	2424.9
10°	2510.3	2504.5	2507.8	2505.3	2502.1	2500.4	2496.3	2498.8	2492.2	2492.2	2491.4
12.5°	2594.0	2587.4	2588.2	2586.6	2585.0	2578.4	2576.8	2577.6	2572.7	2569.4	2567.7
15°	2667.1	2665.4	2665.4	2665.4	2660.5	2656.4	2651.5	2651.5	2646.5	2644.9	2641.6
17.5°	2717.9	2717.1	2715.5	2715.5	2711.4	2707.3	2706.5	2704.0	2699.9	2695.0	2693.3
20°	2739.3	2738.5	2736.8	2736.0	2732.7	2730.3	2724.5	2721.2	2718.8	2714.7	2710.6
22.5°	2737.6	2735.2	2735.2	2733.5	2727.8	2724.5	2718.8	2713.8	2708.9	2706.5	2699.9
25°	2724.5	2721.2	2721.2	2717.1	2710.6	2704.8	2697.4	2690.0	2683.5	2678.5	2671.2
27.5°	2711.4	2707.3	2705.6	2698.2	2690.0	2681.0	2672.0	2662.9	2654.7	2648.2	2644.1
30°	2704.8	2699.1	2694.1	2685.1	2672.0	2662.1	2649.8	2642.4	2635.9	2630.9	2628.5
32.5°	2708.9	2703.2	2695.8	2685.1	2671.2	2659.7	2649.0	2642.4	2639.1	2639.1	2641.6
35°	2751.6	2745.0	2736.0	2724.5	2711.4	2700.7	2694.1	2686.8	2695.8	2696.6	2705.6
37.5°	2886.2	2878.0	2860.0	2855.0	2830.4	2826.3	2825.5	2823.0	2829.6	2840.3	2853.4
40°	3157.9	3139.9	3116.1	3112.0	3097.2	3089.8	3088.2	3084.1	3078.3	3100.5	3107.0
42.5°	3533.1	3536.4	3506.0	3493.7	3497.0	3468.2	3491.2	3492.9	3478.9	3475.6	3469.9
45°	3996.1	4003.5	4001.0	3985.4	3993.6	3984.6	3962.4	3982.1	3955.8	3918.1	3886.9
47.5°	4509.1	4514.0	4514.9	4528.0	4546.9	4541.1	4515.7	4477.1	4442.6	4376.1	4307.2
50°	5086.2	5116.6	5114.1	5119.9	5136.3	5098.5	5064.9	5009.0	4928.6	4823.5	4707.0
52.5°	5777.4	5747.8	5774.1	5753.6	5751.9	5706.8	5612.4	5531.9	5379.3	5244.6	5068.1
55°	6543.3	6508.0	6485.8	6440.7	6390.6	6300.3	6167.3	5998.2	5817.6	5641.9	5432.6
57.5°	7321.5	7274.7	7232.0	7150.7	7039.1	6881.5	6714.0	6495.7	6255.1	6006.4	5777.4
60°	8339.4	8226.9	8134.1	8021.7	7839.4	7590.7	7379.8	7064.5	6760.8	6443.1	6143.5
62.5°	9529.6	9429.5	9176.7	9009.2	8795.0	8498.6	8217.1	7797.6	7443.0	7011.2	6671.3
65°	11235.4	10992.5	10775.7	10439.2	10124.0	9732.4	9342.5	8809.7	8313.9	7828.8	7407.7
67.5°	12362.5	12126.9	11860.1	11514.5	11114.0	10669.0	10140.4	9568.2	8950.9	8400.1	7940.4
69°	12493.0	12241.0	11945.5	11570.4	11144.3	10647.7	10111.7	9521.4	8867.2	8318.8	7847.7
70°	12310.0	12032.5	11755.1	11355.3	10920.2	10399.0	9849.8	9258.8	8572.5	8058.6	7571.0
72.5°	11114.8	10879.2	10491.7	10059.9	9677.4	9080.6	8515.9	7969.1	7309.2	6783.8	6375.8
75°	8515.0	8298.3	8144.8	7750.0	7399.5	6889.7	6554.8	5947.3	5591.9	5036.1	4642.1
77.5°	3903.3	3863.9	3964.1	3871.3	3717.8	3560.2	3497.8	3212.9	2968.3	2829.6	2624.4
80°	694.5	710.1	747.8	748.6	729.8	738.8	788.0	793.0	858.6	846.3	928.4
82.5°	247.1	246.3	251.2	251.2	255.3	263.5	294.7	344.0	405.5	472.0	557.4
85°	125.6	134.6	140.4	140.4	142.8	148.6	161.7	201.1	252.0	329.2	417.0
87.5°	41.9	48.4	54.2	58.3	57.5	59.1	63.2	74.7	108.4	148.6	201.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

REPORT NUMBER: P670643

CATALOG NUMBER: VAL-E04-LED-EU-RW-7050

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9	2360.9
2.5°	2355.9	2357.6	2355.1	2355.1	2354.3	2352.7	2348.6	2345.3	2341.2	2338.7	2333.0
5°	2378.9	2378.1	2376.5	2376.5	2374.0	2369.9	2361.7	2354.3	2346.9	2342.0	2336.2
7.5°	2421.6	2422.4	2421.6	2420.0	2415.9	2410.9	2396.2	2383.8	2375.6	2363.3	2356.8
10°	2485.6	2485.6	2483.2	2479.1	2480.7	2470.0	2446.2	2428.2	2410.9	2392.1	2379.7
12.5°	2562.0	2562.8	2557.9	2557.9	2557.9	2542.3	2508.6	2476.6	2450.3	2420.8	2400.3
15°	2637.5	2635.0	2630.9	2629.3	2627.7	2612.1	2573.5	2537.4	2496.3	2450.3	2417.5
17.5°	2687.6	2686.8	2680.2	2680.2	2676.1	2663.8	2635.9	2598.1	2541.5	2477.4	2427.4
20°	2705.6	2703.2	2699.9	2699.1	2695.0	2688.4	2682.7	2655.6	2589.9	2498.8	2422.4
22.5°	2695.0	2692.5	2688.4	2689.2	2687.6	2692.5	2717.1	2703.2	2624.4	2494.7	2385.5
25°	2667.1	2663.8	2663.8	2665.4	2666.2	2688.4	2748.3	2740.1	2626.8	2450.3	2303.4
27.5°	2641.6	2639.1	2640.0	2645.7	2650.6	2690.0	2777.1	2744.2	2575.1	2355.9	2195.0
30°	2629.3	2630.1	2635.9	2644.1	2653.1	2715.5	2796.8	2707.3	2472.5	2222.1	2056.3
32.5°	2645.7	2654.7	2665.4	2676.9	2691.7	2767.2	2801.7	2626.0	2329.7	2076.0	1906.9
35°	2715.5	2735.2	2748.3	2762.3	2777.9	2844.4	2795.9	2509.4	2181.9	1938.1	1750.9
37.5°	2866.5	2880.5	2889.5	2909.2	2928.1	2947.0	2776.2	2382.2	2057.1	1804.3	1613.9
40°	3117.7	3107.9	3125.9	3123.5	3118.5	3070.9	2747.5	2269.7	1948.8	1677.9	1485.8
42.5°	3446.1	3437.9	3413.2	3393.5	3367.3	3219.5	2726.2	2191.8	1838.0	1551.5	1351.2
45°	3827.8	3772.8	3718.6	3671.0	3620.1	3385.3	2723.7	2119.5	1707.4	1408.6	1205.9
47.5°	4183.2	4111.0	4028.9	3951.7	3888.5	3563.5	2740.1	2016.1	1549.0	1260.9	1074.5
50°	4565.8	4438.5	4334.3	4228.4	4157.8	3763.8	2753.2	1860.1	1382.4	1125.4	948.9
52.5°	4910.5	4775.9	4644.6	4542.0	4438.5	3972.3	2705.6	1661.5	1233.0	989.2	825.8
55°	5234.0	5080.5	4956.5	4841.6	4747.2	4199.6	2540.6	1486.6	1090.1	853.7	686.3
57.5°	5545.9	5386.6	5252.8	5134.6	5027.9	4379.4	2233.6	1341.3	939.1	693.6	537.7
60°	5889.0	5706.8	5562.3	5418.7	5302.9	4463.1	1927.4	1207.5	778.2	526.2	394.0
62.5°	6359.4	6151.7	5985.9	5803.7	5629.6	4441.8	1750.9	1057.3	606.6	385.8	293.9
65°	7049.8	6788.7	6577.7	6340.5	6101.6	4339.2	1639.3	900.5	454.8	296.3	252.0
67.5°	7579.2	7259.1	6989.8	6714.8	6412.7	4141.4	1578.6	783.1	363.7	256.1	228.2
69°	7476.6	7160.6	6866.7	6585.1	6243.6	3869.6	1530.9	738.8	336.6	241.3	216.7
70°	7213.9	6893.0	6594.2	6311.8	5942.4	3582.3	1464.5	706.8	326.7	233.1	208.5
72.5°	6008.1	5711.7	5389.9	5081.3	4697.1	2592.4	1120.5	570.5	298.8	213.4	189.6
75°	4322.8	4068.3	3827.0	3492.9	3052.9	1513.7	700.2	349.7	227.4	193.7	172.4
77.5°	2437.2	2339.5	2207.4	1932.4	1645.1	825.8	413.7	217.5	180.6	179.0	149.4
80°	951.4	1036.0	1072.1	1008.0	904.6	595.1	306.2	170.7	152.7	183.1	128.9
82.5°	673.9	793.0	828.3	788.9	736.3	534.4	236.4	133.0	121.5	153.5	109.2
85°	537.7	606.6	610.7	583.6	566.4	428.5	156.8	82.9	86.2	108.4	78.8
87.5°	274.2	269.3	260.2	266.8	237.2	172.4	55.0	34.5	41.9	45.1	43.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P670643
 CATALOG NUMBER: VAL-E04-LED-EU-RW-7050

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	2360.9	2360.9
2.5°	2329.7	2332.1
5°	2333.8	2334.6
7.5°	2353.5	2351.0
10°	2374.0	2370.7
12.5°	2392.1	2386.3
15°	2402.7	2395.3
17.5°	2404.4	2398.6
20°	2386.3	2378.1
22.5°	2330.5	2323.1
25°	2242.7	2231.2
27.5°	2125.3	2113.8
30°	1984.9	1970.1
32.5°	1830.6	1818.3
35°	1676.2	1668.0
37.5°	1539.2	1535.9
40°	1407.8	1403.7
42.5°	1271.5	1265.8
45°	1132.0	1125.4
47.5°	1001.5	992.4
50°	874.2	868.5
52.5°	747.8	742.9
55°	604.2	598.4
57.5°	453.1	438.4
60°	321.0	312.8
62.5°	240.5	232.3
65°	208.5	201.1
67.5°	189.6	181.4
69°	179.8	173.2
70°	174.8	169.1
72.5°	160.9	157.6
75°	144.5	141.2
77.5°	126.4	121.5
80°	109.2	104.3
82.5°	86.2	82.9
85°	53.4	50.9
87.5°	28.7	23.8
90°	0.0	0.0

(END OF REPORT)