

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: LUMARK

Report Number: P511380

Luminaire Tested: **WPMLED25S-90W_SWITCH-3000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511380
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (EVERFINE)
Test Lab: COOPER LIGHTING SOLUTIONS
Issue Date: 4/9/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLD25S-90W_SWITCH-3000K
Description: WALLPACK SELECTABLE CCT
Light Source: (240) 3000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11968 lumens
Efficiency: N/A
Efficacy: 130.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.9' x L: 0.13' x H: 0.45')
IES Classification: Type IV - Short
BUG Rating: B2 - U5 - G5

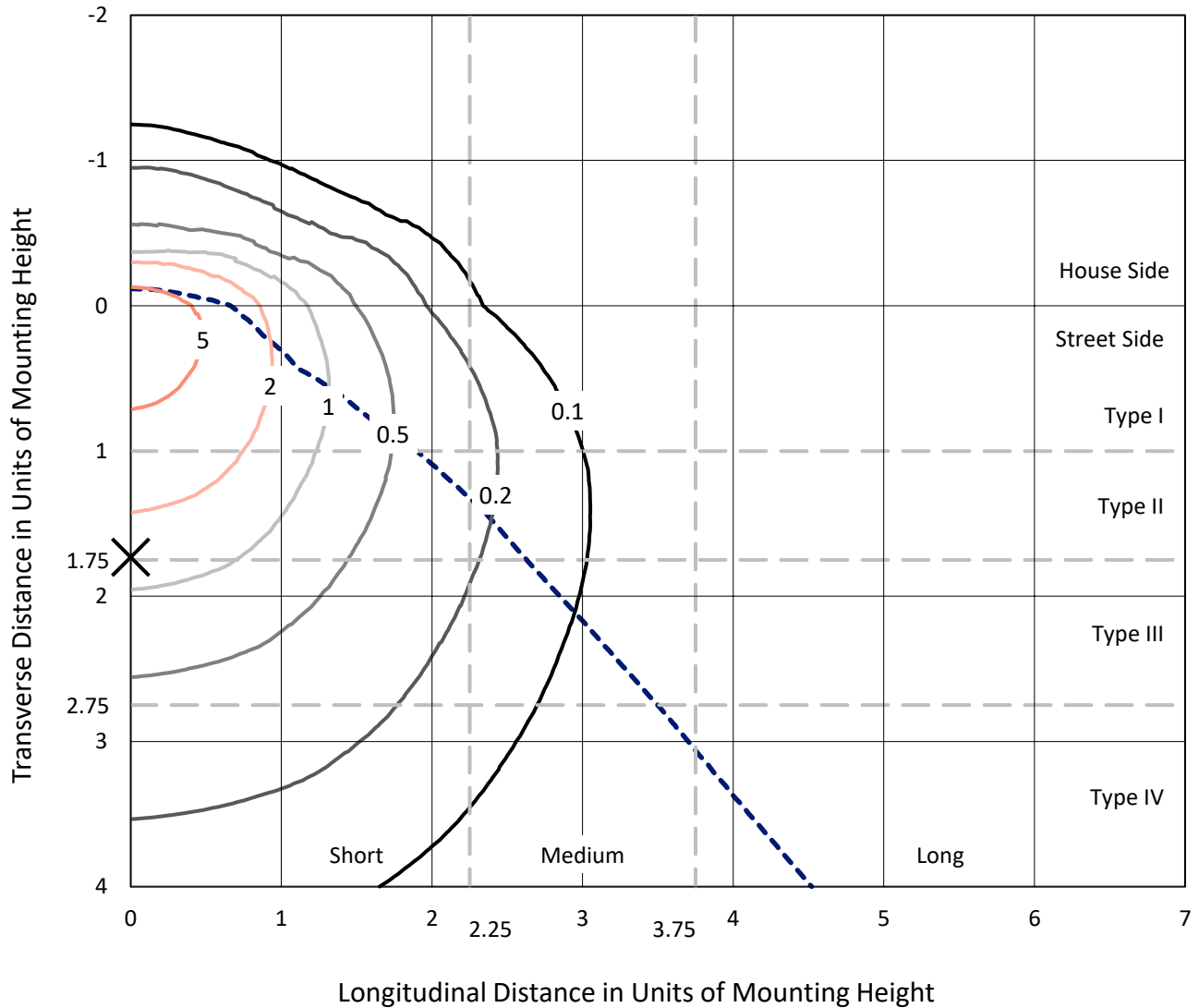
Input Watts (W): 91.5
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

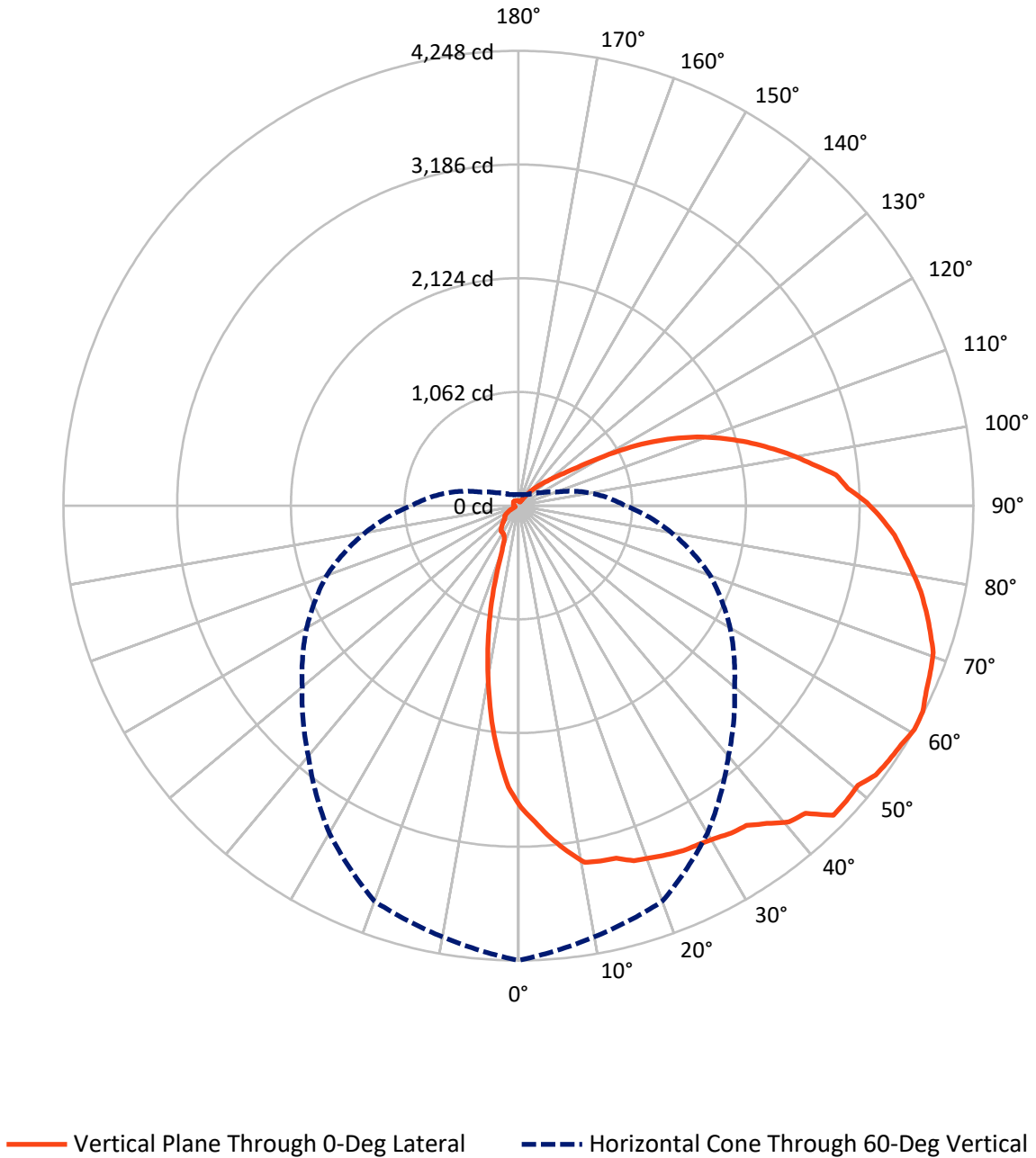
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 7.9 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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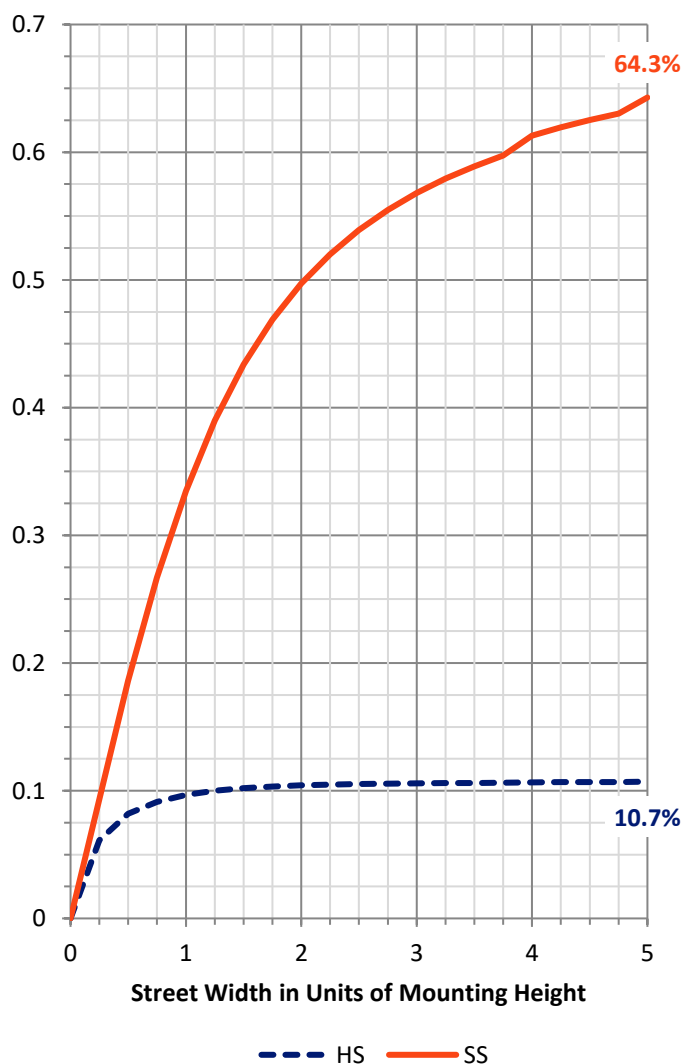
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1309.5	161.3	1470.8
	% Fixture	10.9	1.3	12.3
Street Side	Lumens	8503.3	1993.9	10497.2
	% Fixture	71.1	16.7	87.7
Total	Lumens	9812.8	2155.2	11968.0
	% Fixture	82.0	18.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	259.5	2.2
10°-20°	684.0	5.7
20°-30°	955.2	8.0
30°-40°	1163.3	9.7
40°-50°	1330.8	11.1
50°-60°	1443.5	12.1
60°-70°	1469.3	12.3
70°-80°	1354.9	11.3
80°-90°	1152.3	9.6
90°-100°	896.2	7.5
100°-110°	617.7	5.2
110°-120°	342.7	2.9
120°-130°	152.5	1.3
130°-140°	74.3	0.6
140°-150°	35.1	0.3
150°-160°	20.2	0.2
160°-170°	12.3	0.1
170°-180°	4.1	0.0
0°-90°	9812.8	82.0
0°-180°	11968.0	100.0

Coefficient of Utilization

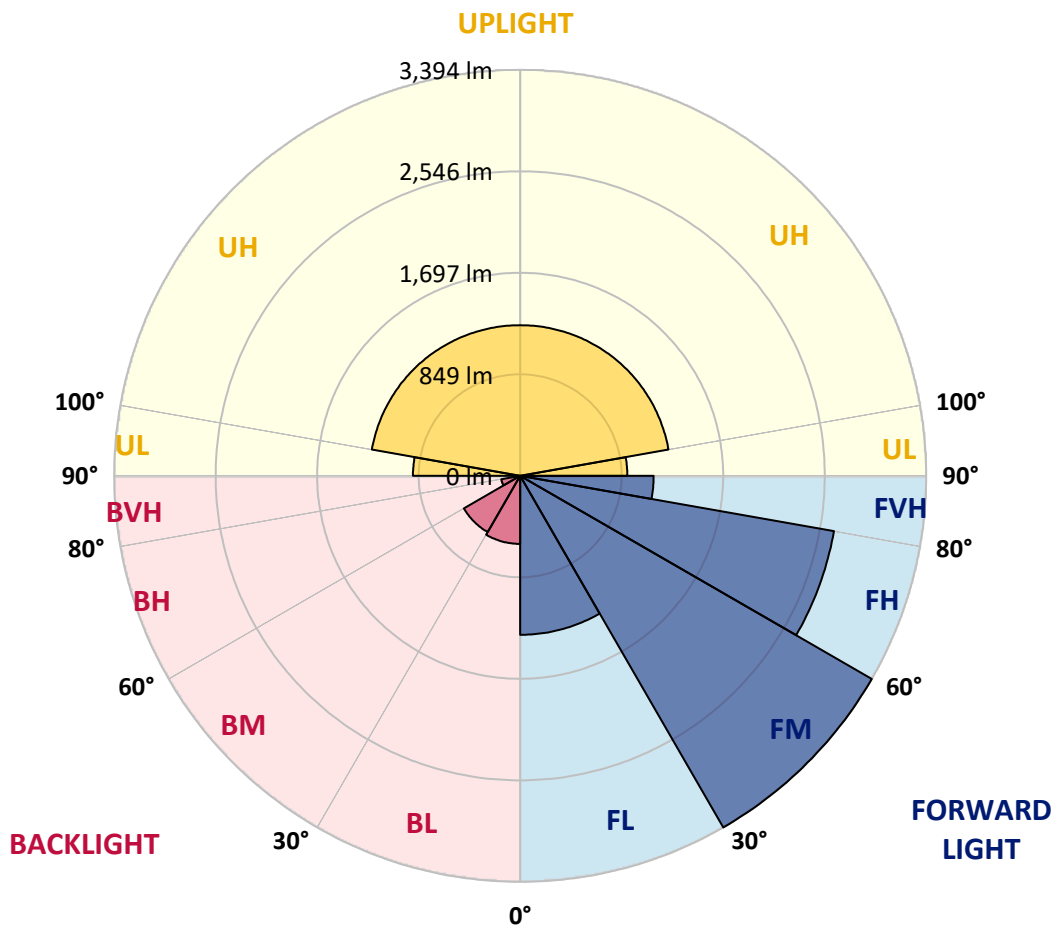


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1329.4	11.1			
FM (30°-60°)	3394.2	28.4			
FH (60°-80°)	2664.0	22.3			G2/5000
FVH (80°-90°)	1115.6	9.3			G5
BL (0°-30°)	569.2	4.8	B2/1000		
BM (30°-60°)	543.4	4.5	B1/1000		
BH (60°-80°)	160.3	1.3	B1/500		G1/500
BVH (80°-90°)	36.7	0.3			G1/100
UL (90°-100°)	896.2	7.5		U4/1000	
UH (100°-180°)	1258.9	10.5		U5	

BUG Rating: B2-U5-G5
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
0°	2817.9	2817.9	2817.9	2817.9	2817.9	2817.9	2817.9	2817.9	2817.9	2817.9	2817.9
2.5°	2957.5	2946.2	2934.9	2930.9	2929.3	2920.7	2905.3	2880.7	2828.9	2777.1	2737.8
5°	3113.6	3100.8	3088.0	3075.1	3062.2	3024.8	2962.8	2901.8	2843.5	2785.3	2730.0
7.5°	3257.0	3239.4	3221.9	3176.5	3121.9	3075.6	3037.7	2984.0	2882.7	2781.4	2667.5
10°	3387.9	3369.8	3351.8	3317.7	3278.2	3205.8	3100.4	2988.7	2857.8	2726.9	2581.3
12.5°	3406.2	3373.0	3339.9	3331.7	3331.9	3272.6	3153.7	3027.3	2878.2	2729.0	2522.8
15°	3416.2	3367.1	3318.1	3290.9	3271.1	3221.6	3142.6	3039.9	2866.4	2692.9	2435.6
17.5°	3487.5	3420.7	3353.9	3321.9	3301.4	3250.4	3168.9	3055.7	2847.6	2639.6	2341.1
20°	3511.4	3473.3	3435.2	3377.6	3313.5	3236.7	3147.2	3022.6	2792.8	2563.0	2222.9
22.5°	3542.7	3495.9	3449.0	3379.7	3302.9	3217.4	3123.1	2989.8	2739.1	2488.4	2102.0
25°	3569.6	3533.3	3497.0	3409.0	3303.6	3193.7	3079.1	2930.0	2677.2	2424.5	1992.2
27.5°	3584.1	3546.4	3508.7	3396.3	3259.1	3128.2	3003.5	2845.6	2587.8	2330.1	1865.8
30°	3607.5	3555.7	3503.9	3369.4	3207.4	3063.4	2937.5	2778.4	2519.5	2260.7	1757.6
32.5°	3647.2	3581.4	3515.7	3366.2	3188.7	3021.1	2863.1	2680.5	2423.8	2167.2	1661.8
35°	3669.1	3599.5	3529.8	3371.5	3183.6	3002.1	2827.0	2624.3	2339.1	2053.9	1538.1
37.5°	3766.8	3666.3	3565.7	3369.9	3142.2	2925.3	2719.1	2495.8	2220.8	1945.9	1419.6
40°	3886.0	3764.7	3643.3	3402.0	3120.7	2868.1	2644.2	2405.4	2122.1	1838.8	1305.8
42.5°	3928.8	3821.3	3713.9	3450.9	3136.0	2842.9	2571.5	2298.5	2020.6	1742.7	1211.3
45°	4124.2	3964.4	3804.7	3501.8	3151.3	2831.9	2543.7	2252.5	1952.3	1652.2	1119.9
47.5°	4119.8	3976.7	3833.6	3523.4	3157.5	2815.6	2497.7	2178.6	1855.9	1533.2	1031.0
50°	4108.3	3981.0	3853.6	3532.9	3147.7	2777.2	2421.5	2074.4	1753.5	1432.5	959.6
52.5°	4177.8	4017.6	3857.4	3524.9	3134.9	2764.5	2413.7	2059.3	1693.7	1328.2	890.0
55°	4198.7	4040.6	3882.4	3527.3	3106.6	2721.7	2372.7	2011.7	1615.0	1218.2	820.3
57.5°	4213.6	4060.5	3907.4	3524.0	3063.8	2666.0	2330.6	1971.3	1540.6	1109.8	751.8
60°	4247.8	4089.6	3931.5	3531.6	3051.1	2634.7	2282.4	1904.7	1450.8	996.9	680.7
62.5°	4237.0	4095.1	3953.2	3550.3	3060.3	2625.7	2246.4	1841.1	1357.4	873.8	603.4
65°	4183.7	4055.7	3927.7	3527.3	3036.1	2600.3	2219.8	1802.0	1271.7	741.4	519.8
67.5°	4148.6	4024.9	3901.2	3481.9	2963.9	2519.1	2147.6	1730.6	1177.4	624.1	443.6
70°	4108.8	3975.5	3842.2	3417.4	2895.4	2449.8	2080.6	1660.0	1085.4	510.8	368.8
72.5°	4020.2	3903.5	3786.8	3356.4	2821.3	2362.8	1980.8	1551.5	980.0	408.6	300.9
75°	3932.3	3808.4	3684.5	3261.0	2737.8	2280.7	1889.8	1454.9	888.2	321.6	244.1
77.5°	3839.1	3713.6	3588.2	3169.9	2653.9	2191.8	1783.5	1341.1	796.5	251.9	197.6
80°	3730.8	3598.5	3466.1	3051.2	2542.2	2080.5	1666.2	1227.4	714.8	202.1	162.7
82.5°	3621.4	3485.6	3349.8	2937.8	2433.8	1969.1	1543.8	1107.3	637.5	167.7	137.8
85°	3522.4	3390.4	3258.5	2843.2	2333.6	1858.8	1419.0	983.8	562.7	141.6	118.8
87.5°	3391.6	3251.9	3112.2	2705.2	2209.0	1739.2	1295.9	869.4	493.2	117.1	102.2
90°	3253.1	3112.5	2971.9	2573.4	2088.9	1624.9	1181.3	765.1	431.4	97.7	89.1
92.5°	3080.3	2946.0	2811.8	2428.2	1961.6	1504.6	1057.4	651.4	369.4	87.4	81.8
95°	2980.9	2823.8	2666.7	2284.2	1826.5	1378.9	941.2	554.0	317.9	81.8	77.3
97.5°	2772.3	2636.4	2500.4	2134.3	1691.5	1258.3	834.9	468.6	273.7	78.8	74.5
100°	2593.3	2450.7	2308.0	1961.0	1545.7	1137.8	737.2	396.9	237.6	78.4	73.3
102.5°	2403.9	2270.4	2136.8	1806.4	1410.5	1024.5	648.5	334.6	206.7	78.8	72.5
105°	2218.1	2082.7	1947.2	1634.1	1261.7	904.6	562.7	281.1	180.2	79.4	72.0
107.5°	2024.7	1893.7	1762.8	1467.1	1116.3	789.4	486.4	239.1	159.3	79.5	71.0
110°	1830.2	1694.2	1558.2	1280.0	954.4	665.1	412.1	206.5	142.7	79.0	69.8



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1617.0	1481.0	1345.0	1090.1	795.6	547.7	346.4	182.3	129.9	77.5	68.1
115°	1386.5	1256.8	1127.2	902.1	645.2	439.4	284.7	158.3	116.9	75.6	65.9
117.5°	1134.4	1025.3	916.2	735.5	531.0	364.9	237.3	133.9	103.6	73.2	63.6
120°	866.6	787.4	708.3	578.6	432.0	305.8	200.0	114.9	92.4	69.9	60.9
122.5°	655.4	607.8	560.1	468.8	362.9	264.7	174.2	101.8	83.8	65.7	57.9
125°	519.2	492.8	466.3	395.7	310.4	229.2	152.1	90.7	76.3	61.8	55.2
127.5°	426.6	409.9	393.2	335.8	264.8	196.7	131.4	79.8	69.0	58.2	52.8
130°	352.6	341.8	331.0	281.0	218.1	160.8	109.2	68.8	61.8	54.7	50.6
132.5°	296.6	289.5	282.5	237.0	178.7	129.7	90.0	59.3	55.4	51.6	48.6
135°	252.8	244.5	236.3	196.3	145.7	105.4	75.4	52.4	50.6	48.8	46.9
137.5°	205.1	196.0	187.0	155.7	116.9	86.4	64.0	47.2	46.7	46.3	45.2
140°	160.3	153.0	145.7	122.0	92.8	70.5	54.9	43.3	43.6	43.8	43.4
142.5°	118.9	115.2	111.6	94.4	72.6	57.4	48.5	41.8	41.4	41.1	41.5
145°	87.0	84.5	82.0	71.1	57.4	48.6	44.9	41.6	39.9	38.2	39.8
147.5°	69.0	67.0	65.0	57.3	47.7	42.7	42.4	41.5	39.3	37.0	39.3
150°	56.9	54.9	52.9	47.5	40.9	38.6	40.8	41.8	39.6	37.4	39.6
152.5°	48.1	46.5	45.0	42.3	39.2	38.2	39.3	39.9	38.9	37.9	40.0
155°	41.2	39.8	38.3	37.9	37.9	38.0	38.2	38.3	38.3	38.3	40.4
157.5°	36.4	36.5	36.7	38.3	40.5	40.8	39.3	38.3	38.5	38.8	40.7
160°	37.6	38.0	38.5	39.8	41.4	41.4	39.8	38.7	39.0	39.3	41.0
162.5°	42.8	42.6	42.4	42.2	42.0	41.3	40.0	39.0	39.4	39.7	41.3
165°	44.1	43.5	42.9	41.7	40.3	39.5	39.4	39.4	39.7	40.1	41.6
167.5°	43.0	42.2	41.3	40.5	39.8	39.5	39.7	39.8	40.1	40.4	41.8
170°	40.5	40.2	40.0	40.0	40.1	40.2	40.3	40.4	40.6	40.7	42.0
172.5°	41.3	41.0	40.8	40.8	40.8	40.8	40.8	40.8	40.9	41.0	42.1
175°	42.2	41.9	41.7	41.6	41.6	41.5	41.4	41.3	41.3	41.3	42.2
177.5°	43.1	42.9	42.7	42.5	42.4	42.2	41.9	41.7	41.6	41.5	42.3
180°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2817.9	2817.9	2817.9	2817.9	2817.9	2817.9	2817.9	2817.9
2.5°	2698.5	2676.2	2659.5	2641.5	2622.1	2610.5	2622.1	2633.7
5°	2674.7	2605.2	2531.1	2464.4	2405.1	2358.3	2348.9	2339.4
7.5°	2553.7	2438.4	2322.6	2227.5	2153.0	2090.0	2060.9	2031.9
10°	2435.6	2280.8	2123.1	1987.1	1872.9	1776.9	1735.5	1694.1
12.5°	2316.6	2111.1	1905.7	1725.8	1571.4	1445.7	1406.3	1366.9
15°	2178.3	1922.4	1666.9	1455.2	1287.2	1149.8	1104.6	1059.3
17.5°	2042.6	1745.9	1449.9	1209.9	1026.1	872.9	811.5	750.1
20°	1882.8	1557.4	1237.0	972.3	763.2	591.0	529.0	467.1
22.5°	1715.6	1363.6	1023.2	755.5	560.5	407.2	379.1	351.0
25°	1560.0	1182.5	823.3	577.4	444.7	342.1	329.6	317.0
27.5°	1401.5	1021.6	669.7	455.2	378.1	318.3	310.1	302.0
30°	1254.6	888.7	568.5	385.3	339.3	303.3	297.9	292.5
32.5°	1156.4	809.1	514.4	351.0	318.9	294.5	293.1	291.7
35°	1022.3	707.3	459.1	324.5	303.2	287.0	285.8	284.6
37.5°	893.2	612.0	412.5	304.3	287.3	273.5	269.4	265.4
40°	772.8	524.6	371.3	285.8	268.0	253.1	246.8	240.5
42.5°	679.9	457.3	337.7	267.7	247.2	230.1	223.0	216.0
45°	587.7	390.0	303.7	249.7	227.9	209.6	201.3	193.0
47.5°	528.8	349.4	277.7	230.5	208.0	189.1	181.5	173.8
50°	486.8	319.7	254.6	210.8	188.1	170.6	168.5	166.4
52.5°	451.9	295.6	233.3	191.3	169.6	154.2	157.9	161.6
55°	422.4	275.9	213.2	171.9	152.0	138.4	143.7	149.0
57.5°	393.8	257.0	194.0	153.6	136.0	123.3	125.5	127.7
60°	364.5	238.4	175.6	136.3	120.4	108.1	106.5	104.8
62.5°	333.0	219.3	157.8	119.4	104.3	92.0	88.0	83.9
65°	298.1	198.5	139.5	101.6	84.6	70.9	66.9	63.0
67.5°	263.1	176.5	121.2	82.4	60.1	42.1	37.1	32.1
70°	226.8	153.5	103.1	67.7	47.5	32.5	32.7	33.0
72.5°	193.1	131.9	86.3	56.8	43.4	33.4	33.7	34.1
75°	166.6	117.4	77.5	52.4	42.0	34.4	34.8	35.2
77.5°	143.2	104.3	70.5	49.6	41.4	35.4	35.9	36.4
80°	123.2	92.0	63.5	46.3	40.6	36.4	36.9	37.5
82.5°	108.0	82.4	58.3	44.2	40.2	37.4	38.0	38.6
85°	96.0	75.1	54.8	43.2	40.4	38.5	39.1	39.8
87.5°	87.4	70.3	52.5	42.6	40.7	39.5	40.2	41.0
90°	80.5	66.5	50.8	42.4	41.2	40.6	41.3	42.1
92.5°	76.1	64.1	49.8	42.4	41.8	41.5	42.4	43.2
95°	72.8	62.0	49.0	42.5	42.4	42.5	43.3	44.2
97.5°	70.1	60.2	48.4	42.7	43.0	43.4	44.3	45.2
100°	68.3	58.8	48.0	42.9	43.5	44.3	45.2	46.1
102.5°	66.3	57.4	47.5	43.1	44.1	45.1	46.0	47.0
105°	64.6	56.1	47.2	43.4	44.7	46.0	46.9	47.8
107.5°	62.6	54.7	47.0	43.9	45.4	46.8	47.7	48.7
110°	60.5	53.3	46.8	44.4	46.1	47.6	48.6	49.5



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 CATALOG NUMBER: WPMLED25S-90W_SWITCH-3000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	58.6	52.1	46.6	44.9	46.7	48.4	49.3	50.3
115°	56.3	50.7	46.4	45.3	47.4	49.2	50.1	51.0
117.5°	54.0	49.3	46.2	45.8	48.0	49.9	50.8	51.7
120°	51.9	48.2	46.2	46.3	48.6	50.6	51.5	52.4
122.5°	50.1	47.3	46.1	46.8	49.2	51.3	52.1	53.0
125°	48.6	46.6	46.2	47.3	49.8	51.9	52.7	53.6
127.5°	47.4	46.2	46.3	47.7	50.3	52.4	53.2	54.0
130°	46.4	45.8	46.4	48.1	50.7	52.8	53.6	54.4
132.5°	45.6	45.6	46.7	48.5	51.1	53.2	54.0	54.8
135°	45.0	45.6	46.9	48.9	51.4	53.5	54.3	55.0
137.5°	44.2	45.3	47.1	49.2	51.6	53.7	54.4	55.2
140°	43.1	44.8	47.1	49.4	51.8	53.7	54.5	55.2
142.5°	41.9	44.2	47.0	49.6	51.8	53.7	54.4	55.2
145°	41.4	44.0	47.1	49.6	51.8	53.6	54.3	55.0
147.5°	41.5	44.3	47.2	49.6	51.6	53.3	53.9	54.6
150°	41.8	44.5	47.2	49.5	51.4	53.0	53.6	54.2
152.5°	42.1	44.6	47.2	49.3	51.1	52.5	53.1	53.6
155°	42.4	44.7	47.1	49.1	50.6	51.9	52.4	52.9
157.5°	42.6	44.7	46.9	48.8	50.2	51.4	51.8	52.2
160°	42.8	44.8	46.8	48.4	49.7	50.7	51.1	51.5
162.5°	43.0	44.7	46.6	48.0	49.2	50.1	50.4	50.7
165°	43.1	44.7	46.3	47.6	48.6	49.4	49.6	49.9
167.5°	43.1	44.6	46.0	47.1	48.0	48.6	48.8	49.0
170°	43.2	44.4	45.6	46.6	47.3	47.8	47.9	48.1
172.5°	43.2	44.2	45.3	46.1	46.6	47.1	47.1	47.1
175°	43.1	44.0	44.9	45.6	46.0	46.3	46.2	46.1
177.5°	43.0	43.8	44.5	45.0	45.3	45.5	45.3	45.1
180°	41.2	41.2	41.2	41.2	41.2	41.2	41.2	41.2

(END OF REPORT)