

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: P511381

Luminaire Tested: **WPMLED25S-90W_SWITCH-4000K**

Issue Date: 4/9/2021

Test Information

Test Method: LM-79-08
Report Number: P511381
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: WPMLED25S-90W_SWITCH-4000K
Description: WALLPACK SELECTABLE CCT
Light Source: (240) 4000K CCT, 70 CRI LEDS
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12651 lumens
Efficiency: N/A
Efficacy: 142.8 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

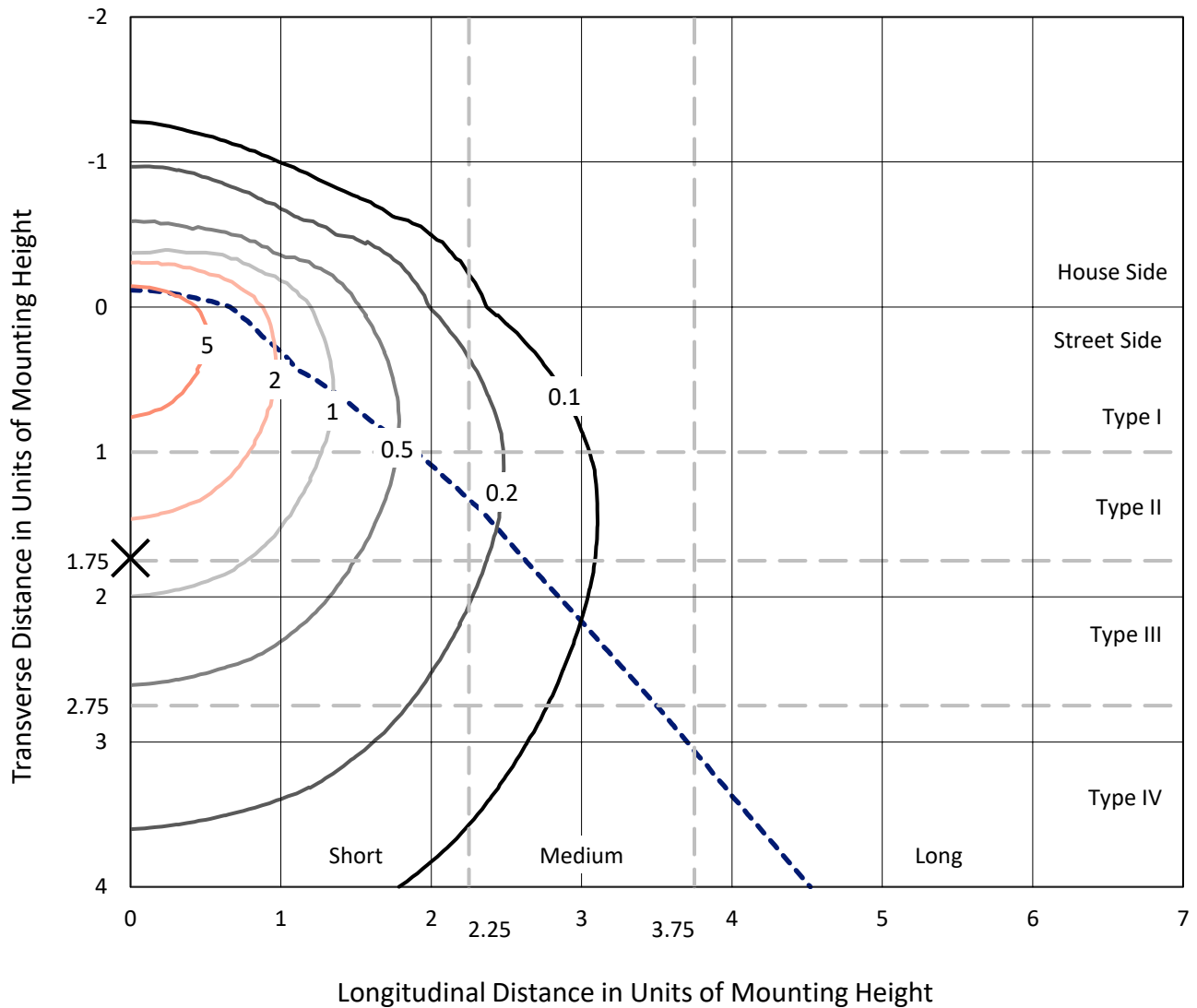
Input Watts (W): 88.6
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

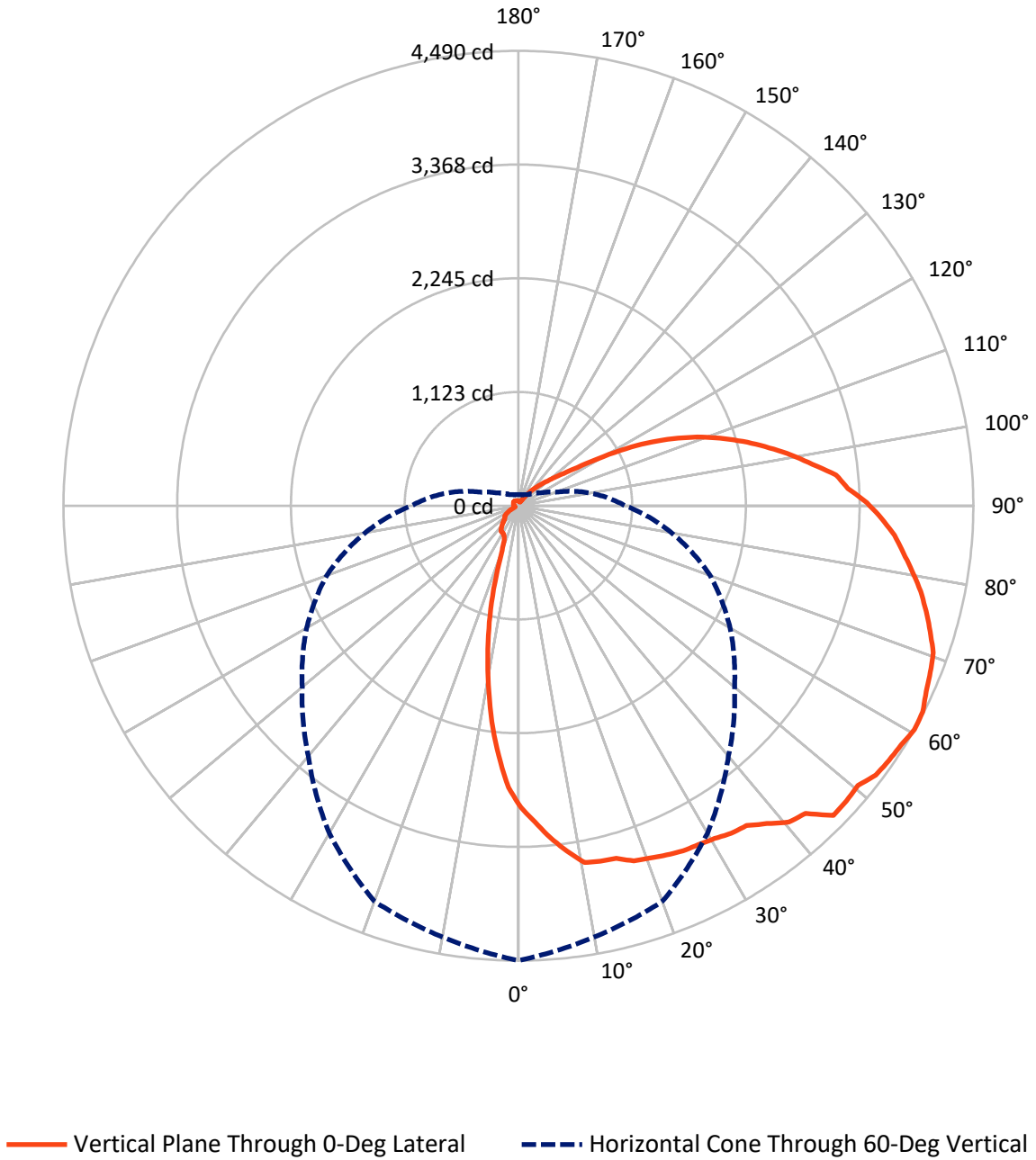
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



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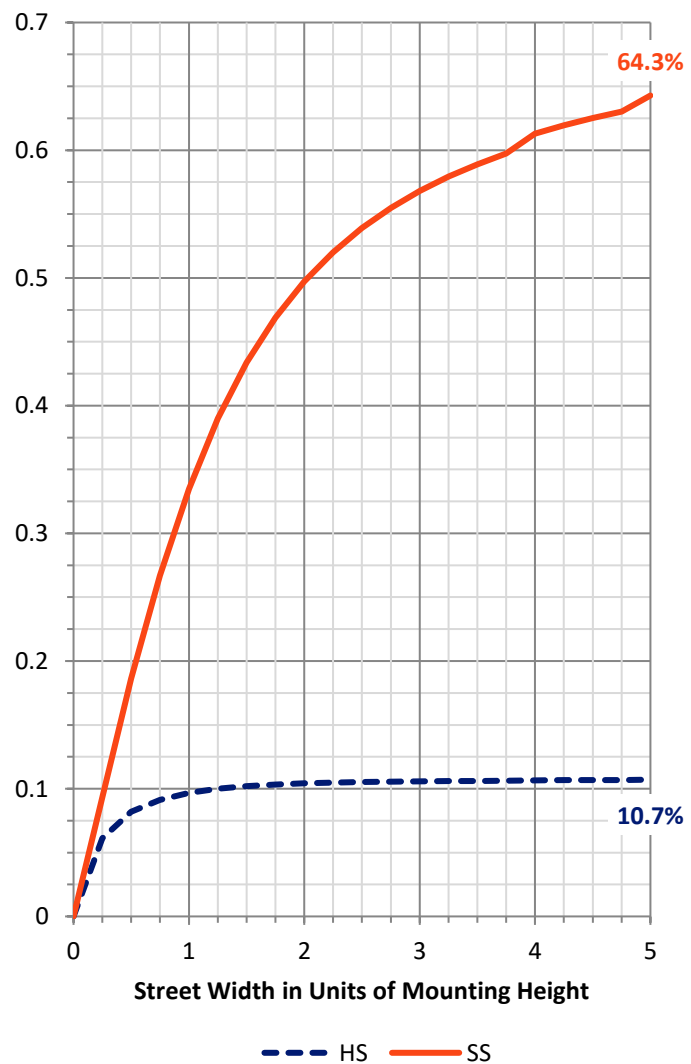
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1384.3	170.5	1554.8
	% Fixture	10.9	1.3	12.3
Street Side	Lumens	8988.6	2107.7	11096.2
	% Fixture	71.1	16.7	87.7
Total	Lumens	10372.8	2278.2	12651.0
	% Fixture	82.0	18.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	274.3	2.2
10°-20°	723.1	5.7
20°-30°	1009.7	8.0
30°-40°	1229.7	9.7
40°-50°	1406.8	11.1
50°-60°	1525.9	12.1
60°-70°	1553.1	12.3
70°-80°	1432.2	11.3
80°-90°	1218.1	9.6
90°-100°	947.4	7.5
100°-110°	652.9	5.2
110°-120°	362.3	2.9
120°-130°	161.2	1.3
130°-140°	78.6	0.6
140°-150°	37.1	0.3
150°-160°	21.4	0.2
160°-170°	13.0	0.1
170°-180°	4.3	0.0
0°-90°	10372.8	82.0
0°-180°	12651.0	100.0

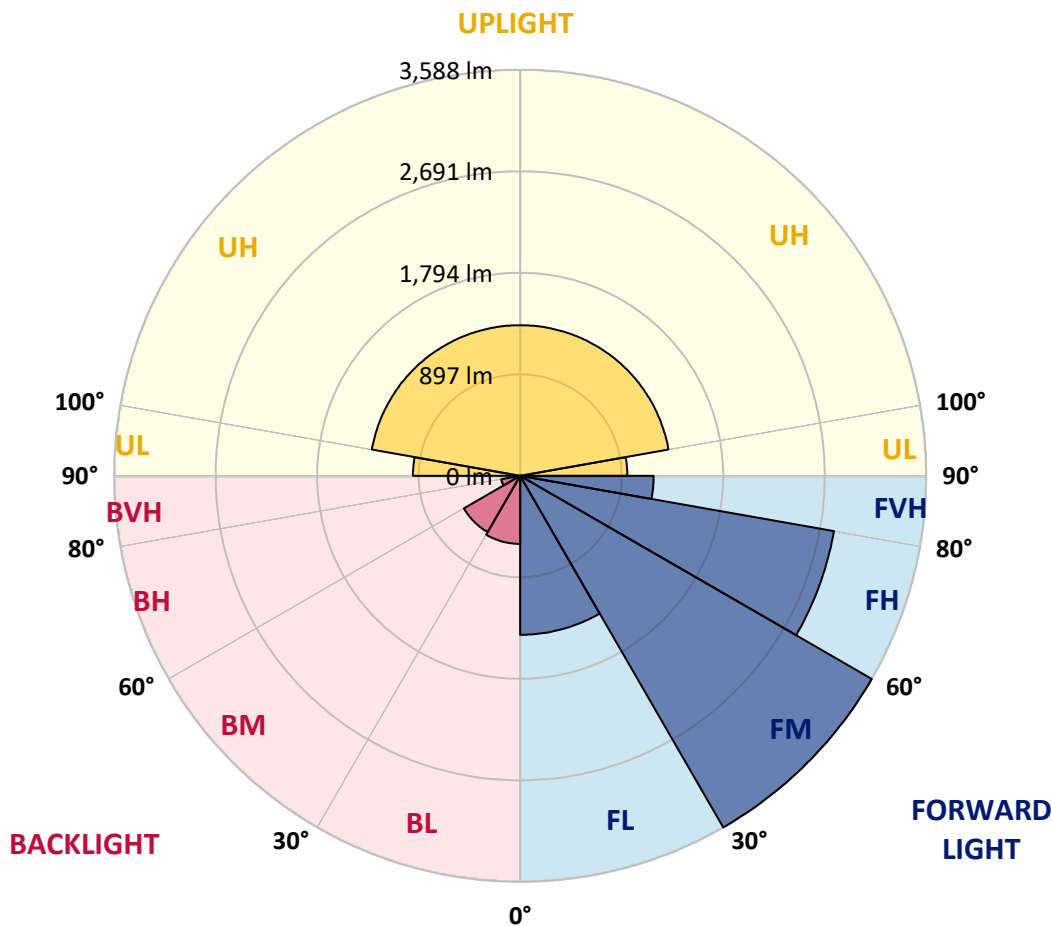


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1405.3	11.1			
FM (30°-60°)	3587.9	28.4			
FH (60°-80°)	2816.0	22.3			G2/5000
FVH (80°-90°)	1179.3	9.3			G5
BL (0°-30°)	601.7	4.8	B2/1000		
BM (30°-60°)	574.4	4.5	B1/1000		
BH (60°-80°)	169.4	1.3	B1/500		G1/500
BVH (80°-90°)	38.8	0.3			G1/100
UL (90°-100°)	947.4	7.5		U4/1000	
UH (100°-180°)	1330.8	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°	2978.7	2978.7	2978.7	2978.7	2978.7	2978.7	2978.7	2978.7	2978.7	2978.7	2978.7
2.5°	3126.2	3114.3	3102.4	3098.2	3096.5	3087.4	3071.1	3045.1	2990.3	2935.5	2894.0
5°	3291.3	3277.8	3264.2	3250.6	3237.0	3197.4	3131.9	3067.4	3005.8	2944.2	2885.8
7.5°	3442.9	3424.3	3405.8	3357.8	3300.0	3251.1	3211.0	3154.2	3047.2	2940.1	2819.8
10°	3581.3	3562.1	3543.0	3507.0	3465.3	3388.7	3277.4	3159.3	3020.9	2882.6	2728.6
12.5°	3600.6	3565.5	3530.5	3521.9	3522.1	3459.3	3333.7	3200.1	3042.4	2884.8	2666.8
15°	3611.2	3559.3	3507.4	3478.7	3457.8	3405.5	3321.9	3213.4	3030.0	2846.5	2574.6
17.5°	3686.5	3615.9	3545.4	3511.5	3489.8	3435.9	3349.7	3230.1	3010.2	2790.2	2474.7
20°	3711.8	3671.5	3631.2	3570.4	3502.6	3421.4	3326.8	3195.0	2952.1	2709.2	2349.7
22.5°	3744.9	3695.4	3645.8	3572.6	3491.4	3401.0	3301.4	3160.4	2895.4	2630.4	2222.0
25°	3773.3	3735.0	3696.6	3603.5	3492.2	3375.9	3254.8	3097.2	2830.0	2562.8	2105.9
27.5°	3788.7	3748.8	3708.9	3590.2	3445.1	3306.7	3174.9	3007.9	2735.5	2463.1	1972.3
30°	3813.3	3758.6	3703.9	3561.7	3390.4	3238.3	3105.2	2937.0	2663.3	2389.7	1857.9
32.5°	3855.3	3785.8	3716.3	3558.3	3370.7	3193.5	3026.5	2833.5	2562.2	2290.8	1756.6
35°	3878.5	3804.9	3731.3	3563.9	3365.3	3173.4	2988.3	2774.1	2472.6	2171.1	1625.9
37.5°	3981.8	3875.5	3769.2	3562.2	3321.5	3092.2	2874.3	2638.2	2347.6	2057.0	1500.6
40°	4107.8	3979.5	3851.2	3596.2	3298.8	3031.8	2795.1	2542.7	2243.2	1943.7	1380.3
42.5°	4153.0	4039.4	3925.9	3647.8	3315.0	3005.2	2718.3	2429.7	2135.9	1842.1	1280.4
45°	4359.6	4190.7	4021.8	3701.7	3331.1	2993.5	2688.8	2381.0	2063.7	1746.4	1183.9
47.5°	4354.9	4203.7	4052.4	3724.5	3337.7	2976.3	2640.2	2302.9	1961.8	1620.7	1089.8
50°	4342.7	4208.1	4073.6	3734.5	3327.3	2935.7	2559.7	2192.8	1853.5	1514.2	1014.4
52.5°	4416.2	4246.9	4077.6	3726.0	3313.8	2922.2	2551.5	2176.8	1790.4	1404.0	940.8
55°	4438.4	4271.1	4103.9	3728.6	3283.9	2877.0	2508.1	2126.5	1707.1	1287.7	867.1
57.5°	4454.1	4292.2	4130.3	3725.1	3238.7	2818.2	2463.6	2083.8	1628.5	1173.1	794.7
60°	4490.2	4323.0	4155.9	3733.1	3225.2	2785.1	2412.6	2013.4	1533.6	1053.8	719.5
62.5°	4478.8	4328.8	4178.8	3752.9	3235.0	2775.6	2374.6	1946.1	1434.9	923.7	637.8
65°	4422.5	4287.1	4151.8	3728.6	3209.3	2748.7	2346.5	1904.8	1344.3	783.7	549.4
67.5°	4385.3	4254.6	4123.9	3680.6	3133.0	2662.9	2270.1	1829.4	1244.5	659.7	468.9
70°	4343.3	4202.4	4061.4	3612.4	3060.7	2589.6	2199.3	1754.7	1147.4	540.0	389.9
72.5°	4249.6	4126.3	4002.9	3547.9	2982.3	2497.6	2093.8	1640.0	1036.0	431.9	318.0
75°	4156.7	4025.7	3894.7	3447.1	2894.0	2410.9	1997.6	1537.9	938.9	339.9	258.0
77.5°	4058.2	3925.6	3793.0	3350.8	2805.4	2316.9	1885.3	1417.7	842.0	266.3	208.9
80°	3943.7	3803.8	3663.9	3225.4	2687.2	2199.2	1761.3	1297.4	755.5	213.7	172.0
82.5°	3828.1	3684.5	3541.0	3105.5	2572.7	2081.5	1631.9	1170.5	673.8	177.2	145.7
85°	3723.4	3583.9	3444.4	3005.5	2466.7	1964.9	1500.0	1040.0	594.8	149.7	125.6
87.5°	3585.2	3437.5	3289.9	2859.6	2335.0	1838.5	1369.9	919.0	521.4	123.7	108.0
90°	3438.8	3290.2	3141.5	2720.2	2208.1	1717.6	1248.7	808.8	456.0	103.3	94.2
92.5°	3256.1	3114.2	2972.3	2566.8	2073.5	1590.5	1117.7	688.6	390.5	92.4	86.4
95°	3151.0	2984.9	2818.9	2414.6	1930.8	1457.6	994.9	585.6	336.0	86.4	81.7
97.5°	2930.5	2786.8	2643.1	2256.1	1788.0	1330.1	882.5	495.3	289.3	83.3	78.7
100°	2741.3	2590.6	2439.8	2072.9	1634.0	1202.7	779.2	419.5	251.2	82.8	77.5
102.5°	2541.1	2399.9	2258.7	1909.5	1491.0	1083.0	685.6	353.7	218.5	83.3	76.7
105°	2344.7	2201.5	2058.3	1727.3	1333.7	956.2	594.8	297.1	190.5	83.9	76.1
107.5°	2140.2	2001.8	1863.4	1550.8	1180.0	834.5	514.1	252.8	168.4	84.0	75.1
110°	1934.7	1790.9	1647.2	1353.1	1008.9	703.0	435.6	218.2	150.9	83.5	73.7



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CANDELA DISTRIBUTION (continued):

	0°	10°	20°	30°	40°	50°	60°	70°	80°	90°	100°
112.5°	1709.2	1565.5	1421.7	1152.3	841.0	579.0	366.2	192.7	137.4	82.0	71.9
115°	1465.6	1328.6	1191.5	953.6	682.0	464.5	300.9	167.4	123.6	79.9	69.7
117.5°	1199.1	1083.8	968.5	777.5	561.3	385.7	250.8	141.6	109.5	77.4	67.2
120°	916.0	832.4	748.7	611.6	456.7	323.3	211.4	121.5	97.7	73.9	64.4
122.5°	692.8	642.5	592.1	495.5	383.6	279.8	184.1	107.6	88.5	69.4	61.2
125°	548.9	520.9	493.0	418.3	328.1	242.3	160.8	95.9	80.6	65.3	58.3
127.5°	450.9	433.3	415.6	355.0	280.0	207.9	138.9	84.3	72.9	61.5	55.8
130°	372.7	361.3	349.9	297.1	230.5	170.0	115.5	72.7	65.3	57.9	53.4
132.5°	313.5	306.0	298.6	250.6	188.9	137.1	95.2	62.7	58.6	54.5	51.4
135°	267.2	258.5	249.8	207.5	154.1	111.4	79.7	55.4	53.5	51.6	49.6
137.5°	216.8	207.2	197.7	164.6	123.6	91.3	67.7	49.9	49.4	48.9	47.8
140°	169.4	161.7	154.0	129.0	98.1	74.5	58.1	45.8	46.0	46.3	45.9
142.5°	125.6	121.8	118.0	99.8	76.8	60.6	51.3	44.2	43.8	43.4	43.9
145°	91.9	89.3	86.6	75.1	60.6	51.4	47.5	44.0	42.2	40.4	42.1
147.5°	72.9	70.8	68.7	60.6	50.4	45.1	44.8	43.9	41.5	39.1	41.5
150°	60.1	58.0	55.9	50.2	43.2	40.8	43.1	44.2	41.9	39.5	41.9
152.5°	50.8	49.2	47.6	44.7	41.4	40.4	41.6	42.2	41.1	40.0	42.3
155°	43.6	42.0	40.5	40.1	40.1	40.2	40.4	40.5	40.5	40.5	42.7
157.5°	38.5	38.6	38.8	40.5	42.8	43.2	41.6	40.4	40.7	41.0	43.0
160°	39.7	40.2	40.7	42.1	43.8	43.8	42.1	40.9	41.2	41.5	43.4
162.5°	45.3	45.0	44.8	44.6	44.4	43.6	42.2	41.3	41.6	41.9	43.7
165°	46.7	46.0	45.4	44.1	42.6	41.8	41.7	41.7	42.0	42.4	44.0
167.5°	45.5	44.6	43.7	42.9	42.1	41.8	41.9	42.1	42.4	42.7	44.2
170°	42.8	42.5	42.2	42.2	42.3	42.4	42.6	42.7	42.9	43.0	44.3
172.5°	43.6	43.4	43.1	43.1	43.1	43.1	43.1	43.2	43.3	43.3	44.5
175°	44.6	44.3	44.1	44.0	44.0	43.9	43.8	43.6	43.6	43.6	44.6
177.5°	45.6	45.3	45.1	45.0	44.9	44.6	44.3	44.0	43.9	43.9	44.7
180°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6



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CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
0°	2978.7	2978.7	2978.7	2978.7	2978.7	2978.7	2978.7	2978.7
2.5°	2852.5	2828.9	2811.3	2792.2	2771.8	2759.5	2771.8	2784.0
5°	2827.3	2753.9	2675.5	2605.0	2542.3	2492.9	2482.9	2472.9
7.5°	2699.5	2577.6	2455.1	2354.6	2275.9	2209.2	2178.5	2147.8
10°	2574.6	2411.0	2244.2	2100.5	1979.8	1878.3	1834.5	1790.7
12.5°	2448.9	2231.5	2014.4	1824.3	1661.1	1528.2	1486.6	1444.9
15°	2302.6	2032.1	1762.1	1538.2	1360.6	1215.4	1167.6	1119.8
17.5°	2159.1	1845.6	1532.6	1279.0	1084.7	922.7	857.8	792.9
20°	1990.2	1646.3	1307.6	1027.8	806.8	624.7	559.2	493.8
22.5°	1813.5	1441.5	1081.6	798.6	592.4	430.4	400.7	371.0
25°	1649.0	1250.0	870.3	610.3	470.1	361.6	348.4	335.1
27.5°	1481.5	1079.9	707.9	481.2	399.7	336.4	327.8	319.2
30°	1326.2	939.4	600.9	407.3	358.6	320.7	314.9	309.2
32.5°	1222.4	855.3	543.8	371.1	337.1	311.3	309.8	308.3
35°	1080.7	747.6	485.3	343.0	320.6	303.4	302.1	300.9
37.5°	944.2	646.9	436.1	321.7	303.7	289.1	284.8	280.5
40°	817.0	554.6	392.5	302.1	283.3	267.5	260.9	254.2
42.5°	718.7	483.4	357.0	283.0	261.3	243.2	235.8	228.3
45°	621.3	412.2	321.1	264.0	241.0	221.5	212.8	204.0
47.5°	558.9	369.3	293.5	243.7	219.8	199.9	191.8	183.8
50°	514.6	338.0	269.2	222.8	198.9	180.4	178.1	175.9
52.5°	477.7	312.5	246.6	202.2	179.3	163.0	166.9	170.8
55°	446.5	291.6	225.4	181.7	160.7	146.3	151.9	157.5
57.5°	416.3	271.7	205.0	162.4	143.8	130.4	132.7	135.0
60°	385.3	252.0	185.7	144.1	127.3	114.3	112.5	110.8
62.5°	352.0	231.8	166.8	126.3	110.3	97.2	93.0	88.7
65°	315.1	209.8	147.5	107.4	89.4	75.0	70.8	66.5
67.5°	278.1	186.5	128.1	87.1	63.5	44.5	39.2	33.9
70°	239.7	162.2	108.9	71.6	50.3	34.3	34.6	34.9
72.5°	204.1	139.5	91.3	60.0	45.8	35.3	35.7	36.1
75°	176.2	124.1	81.9	55.4	44.4	36.3	36.8	37.2
77.5°	151.4	110.3	74.6	52.4	43.8	37.4	37.9	38.4
80°	130.2	97.2	67.1	49.0	42.9	38.5	39.1	39.6
82.5°	114.2	87.2	61.6	46.7	42.5	39.6	40.2	40.8
85°	101.5	79.3	57.9	45.7	42.7	40.7	41.4	42.1
87.5°	92.4	74.3	55.4	45.0	43.1	41.8	42.5	43.3
90°	85.1	70.3	53.7	44.8	43.6	42.9	43.7	44.5
92.5°	80.5	67.7	52.7	44.8	44.2	43.9	44.8	45.7
95°	77.0	65.5	51.8	44.9	44.8	44.9	45.8	46.7
97.5°	74.1	63.7	51.2	45.1	45.4	45.9	46.8	47.7
100°	72.1	62.2	50.7	45.3	46.0	46.8	47.8	48.7
102.5°	70.1	60.6	50.2	45.6	46.7	47.7	48.7	49.6
105°	68.3	59.3	49.9	45.9	47.3	48.6	49.6	50.5
107.5°	66.1	57.8	49.7	46.4	48.0	49.5	50.5	51.5
110°	64.0	56.4	49.5	46.9	48.7	50.3	51.3	52.3



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 CATALOG NUMBER: WPMLED25S-90W_SWITCH-4000K

CANDELA DISTRIBUTION (continued):

	110°	120°	130°	140°	150°	160°	170°	180°
112.5°	61.9	55.1	49.3	47.4	49.4	51.1	52.2	53.2
115°	59.5	53.6	49.0	47.9	50.1	52.0	53.0	53.9
117.5°	57.1	52.1	48.9	48.4	50.8	52.8	53.7	54.7
120°	54.9	50.9	48.8	48.9	51.4	53.5	54.4	55.4
122.5°	53.0	50.0	48.8	49.4	52.0	54.2	55.1	56.0
125°	51.4	49.3	48.8	50.0	52.6	54.8	55.7	56.6
127.5°	50.1	48.8	49.0	50.4	53.1	55.4	56.2	57.1
130°	49.0	48.4	49.1	50.8	53.6	55.9	56.7	57.5
132.5°	48.2	48.2	49.3	51.3	54.0	56.3	57.1	57.9
135°	47.6	48.2	49.6	51.7	54.4	56.6	57.4	58.1
137.5°	46.7	47.9	49.8	52.0	54.6	56.7	57.5	58.3
140°	45.6	47.3	49.8	52.2	54.7	56.8	57.6	58.4
142.5°	44.3	46.7	49.7	52.4	54.8	56.8	57.6	58.3
145°	43.7	46.6	49.7	52.5	54.7	56.6	57.4	58.1
147.5°	43.9	46.8	49.9	52.4	54.6	56.3	57.0	57.7
150°	44.2	47.0	49.9	52.3	54.3	56.0	56.7	57.3
152.5°	44.5	47.1	49.9	52.1	54.0	55.5	56.1	56.7
155°	44.8	47.2	49.8	51.9	53.5	54.9	55.4	56.0
157.5°	45.0	47.3	49.6	51.5	53.0	54.3	54.7	55.2
160°	45.3	47.3	49.5	51.2	52.5	53.6	54.1	54.5
162.5°	45.4	47.3	49.2	50.8	52.0	53.0	53.3	53.6
165°	45.5	47.2	48.9	50.3	51.4	52.2	52.5	52.7
167.5°	45.6	47.1	48.6	49.8	50.7	51.4	51.6	51.8
170°	45.6	46.9	48.2	49.3	50.0	50.6	50.7	50.8
172.5°	45.6	46.8	47.9	48.7	49.3	49.7	49.7	49.7
175°	45.6	46.5	47.5	48.2	48.6	48.9	48.9	48.8
177.5°	45.5	46.3	47.0	47.5	47.9	48.1	47.9	47.7
180°	43.6	43.6	43.6	43.6	43.6	43.6	43.6	43.6

(END OF REPORT)