

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: P303582

Luminaire Tested: **WPMLED25-C**

Issue Date: 6/24/2020

Test Information

Test Method: LM-79-08
Report Number: P303582
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G1-1906-360-1)
Test Lab: INNOVATION CENTER(G1)
Issue Date: 6/24/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPMLED25-C
Description: MEDIUM LED WALL PACK - 80W, 5000K
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10357.9 lumens
Efficiency: N/A
Efficacy: 129.3 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.03' x L: 0.25' x H: 0.69')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U3 - G4

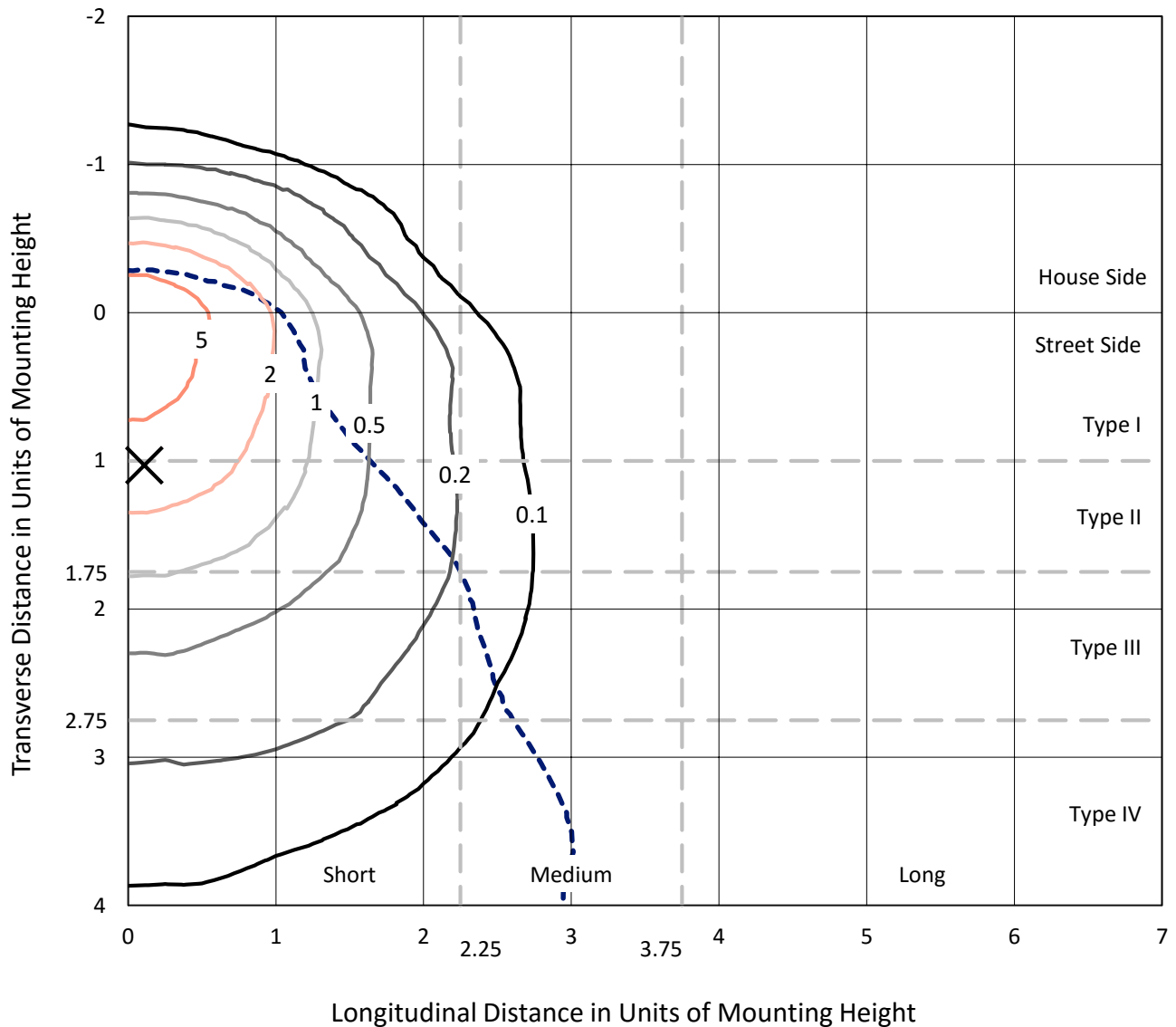
Input Watts (W): 80.1
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

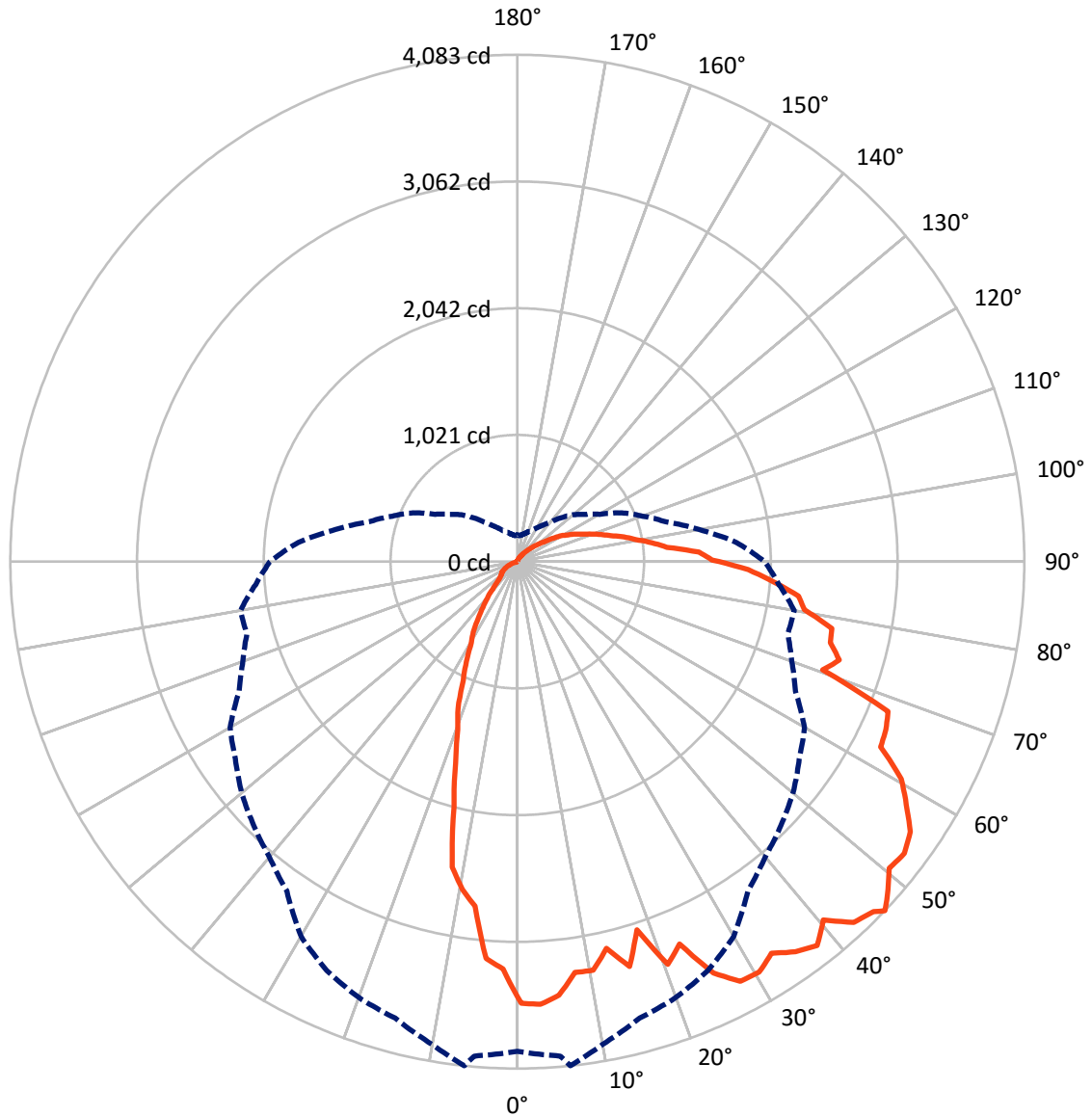
✕ Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 8.9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 6-Deg Lateral - - - Horizontal Cone Through 46-Deg Vertical



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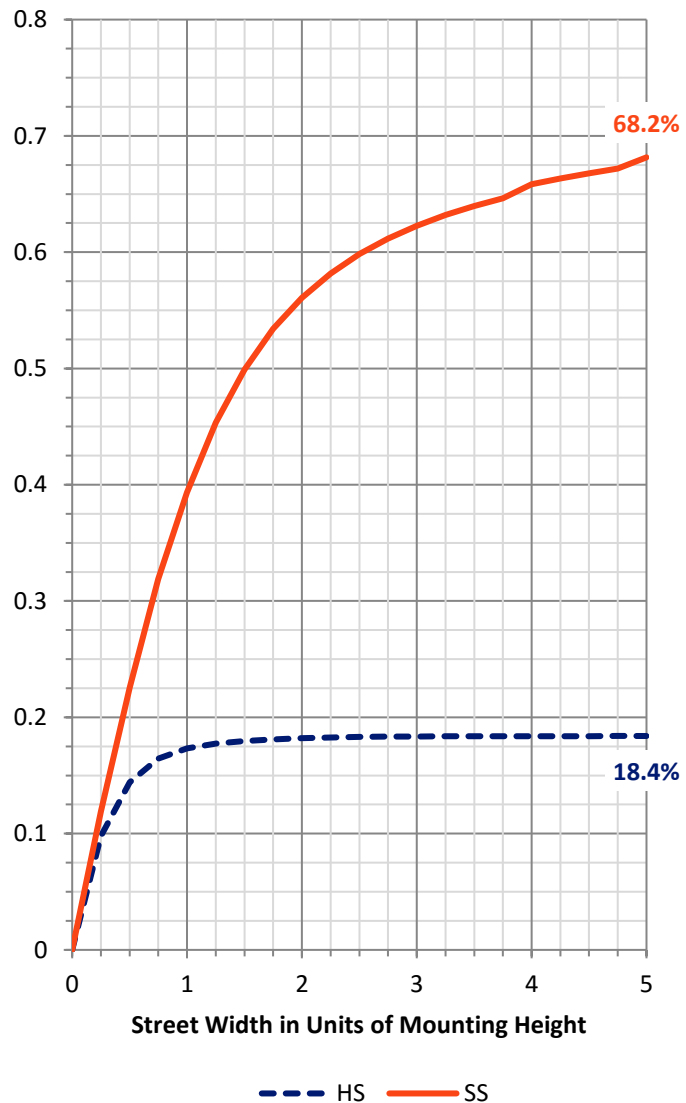
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1924.4	12.9	1937.3
	% Fixture	18.6	0.1	18.7
Street Side	Lumens	7540.1	880.5	8420.6
	% Fixture	72.8	8.5	81.3
Total	Lumens	9464.5	893.4	10357.9
	% Fixture	91.4	8.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.5	3.1
10°-20°	825.3	8.0
20°-30°	1154.6	11.1
30°-40°	1375.8	13.3
40°-50°	1461.7	14.1
50°-60°	1421.8	13.7
60°-70°	1249.8	12.1
70°-80°	970.8	9.4
80°-90°	688.2	6.6
90°-100°	403.5	3.9
100°-110°	233.6	2.3
110°-120°	137.1	1.3
120°-130°	71.1	0.7
130°-140°	31.6	0.3
140°-150°	12.0	0.1
150°-160°	3.8	0.0
160°-170°	0.8	0.0
170°-180°	0.0	0.0
0°-90°	9464.5	91.4
0°-180°	10357.9	100.0

Coefficient of Utilization

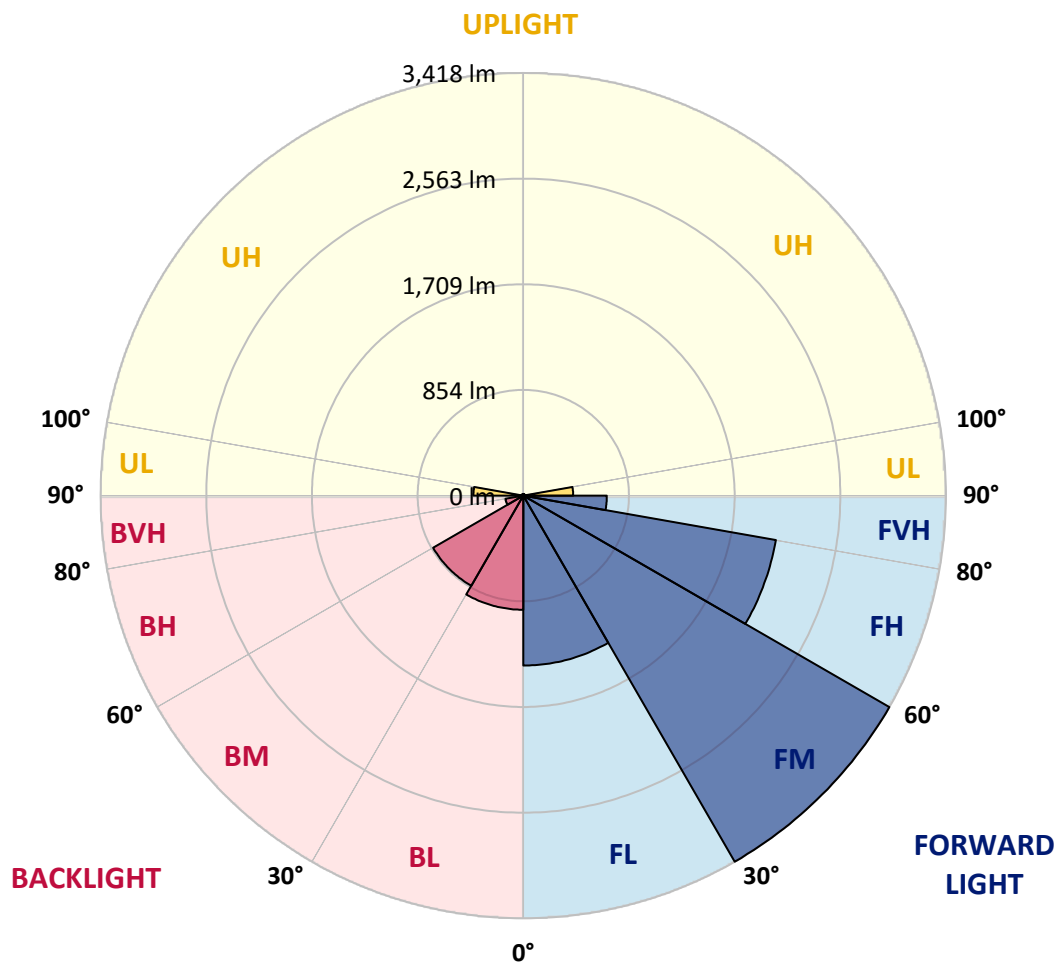


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1373.7	13.3			
FM	(30°-60°)	3417.6	33.0			
FH	(60°-80°)	2073.7	20.0			G2/5000
FVH	(80°-90°)	675.0	6.5			G4/750
BL	(0°-30°)	922.7	8.9	B2/1000		
BM	(30°-60°)	841.7	8.1	B1/1000		
BH	(60°-80°)	146.9	1.4	B1/500		G1/500
BVH	(80°-90°)	13.1	0.1			G1/100
UL	(90°-100°)	403.5	3.9		U3/500	
UH	(100°-180°)	12.9	0.1		U2/50	

BUG Rating: B2-U3-G4
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	6°	10°	15°	20°	25°	30°	35°	40°	45°
0°	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2
2.5°	3664.8	3616.9	3569.6	3540.1	3460.7	3383.8	3452.1	3433.7	3465.9	3442.3	3562.4
5°	3630.7	3569.0	3507.3	3485.6	3481.0	3525.0	3648.4	3615.6	3631.4	3613.6	3748.9
7.5°	3473.8	3394.3	3341.2	3351.0	3379.9	3287.3	3331.3	3379.9	3367.4	3278.8	3488.2
10°	3450.2	3384.5	3347.7	3416.7	3341.8	3314.9	3428.5	3303.1	3354.3	3291.9	3360.2
12.5°	3266.3	3207.9	3195.4	3229.6	3135.0	3172.4	3196.1	3249.2	3248.6	3386.5	3395.0
15°	3402.2	3349.0	3383.8	3360.2	3345.8	3266.3	3280.8	3126.5	3116.6	3163.2	3278.1
17.5°	3150.1	3114.7	3116.6	3035.2	2990.6	2989.9	3099.6	3214.5	3348.4	3146.2	3144.9
20°	3430.5	3445.6	3462.0	3425.2	3345.8	3232.2	3192.8	3030.0	2989.9	3127.1	3370.7
22.5°	3353.6	3359.5	3345.8	3284.0	3165.2	3152.7	3279.4	3353.6	3193.4	2946.6	3062.1
25°	3634.6	3643.2	3670.8	3637.9	3534.2	3435.1	3325.4	3159.3	3158.6	3268.3	3068.7
27.5°	3815.8	3779.1	3827.0	3687.8	3527.0	3437.7	3500.7	3480.4	3222.3	3058.8	3240.1
30°	3775.8	3785.0	3837.5	3788.3	3733.1	3688.5	3639.2	3449.5	3370.1	3281.4	3060.2
32.5°	3687.2	3702.9	3759.4	3680.6	3618.9	3565.7	3608.4	3584.1	3429.8	3274.9	3254.5
35°	3786.3	3798.1	3859.8	3757.4	3638.6	3548.0	3550.6	3498.1	3372.7	3339.2	3219.0
37.5°	3793.5	3823.7	3922.2	3834.2	3741.7	3661.6	3586.1	3460.0	3333.3	3251.9	3244.7
40°	3672.7	3707.5	3795.5	3679.9	3569.6	3557.2	3581.5	3492.2	3290.0	3216.4	3144.2
42.5°	3855.2	3884.8	3972.1	3800.1	3622.2	3536.8	3521.7	3446.9	3257.1	3160.6	3075.9
45°	3905.1	3949.8	4022.0	3875.6	3755.4	3676.7	3605.8	3427.2	3234.8	3125.2	3027.3
46°	3943.2	3997.7	4083.1	3948.5	3806.0	3735.7	3632.7	3484.9	3237.4	3106.1	3003.0
47.5°	3871.0	3929.4	4011.5	3910.4	3821.8	3764.6	3718.0	3543.4	3292.6	3101.5	2954.5
50°	3752.8	3795.5	3881.5	3791.6	3690.4	3673.4	3689.8	3611.0	3351.0	3163.2	2919.0
52.5°	3771.2	3811.9	3904.5	3836.9	3737.1	3698.3	3624.8	3498.7	3303.7	3184.9	2942.6
55°	3769.9	3771.2	3840.8	3689.8	3463.3	3463.9	3528.3	3496.8	3295.9	3148.8	2898.0
57.5°	3552.6	3578.8	3694.4	3662.2	3531.6	3505.3	3506.0	3425.9	3233.5	3095.6	2856.0
60°	3458.0	3444.9	3553.9	3510.6	3377.9	3392.4	3376.0	3236.8	3081.8	3042.4	2816.6
62.5°	3188.8	3174.4	3284.7	3272.2	3221.7	3237.4	3253.8	3267.6	3084.5	2911.8	2689.9
65°	3177.0	3154.0	3263.0	3192.1	3066.7	3037.8	3039.2	2986.0	2896.7	2867.8	2616.3
67.5°	3121.2	3122.5	3219.7	3192.8	3073.3	3019.5	2966.3	2891.4	2752.9	2675.4	2496.2
70°	2540.2	2515.2	2609.1	2638.7	2710.9	2833.0	2775.2	2674.8	2605.8	2543.5	2361.6
72.5°	2657.0	2625.5	2711.5	2727.3	2776.5	2783.8	2798.9	2863.9	2557.9	2320.2	2111.5
75°	2550.7	2539.5	2603.2	2542.8	2429.9	2418.1	2404.9	2391.8	2288.7	2181.0	1924.3
77.5°	2551.3	2531.0	2589.4	2511.3	2387.9	2344.5	2274.3	2167.3	2053.7	2036.6	1881.7
80°	2288.7	2303.2	2343.9	2343.2	2349.8	2412.8	2320.2	2150.2	1967.0	1844.9	1697.2
82.5°	2267.1	2250.6	2281.5	2242.8	2170.5	2131.8	2028.7	2011.0	1920.4	1745.8	1504.8
85°	2055.0	2046.5	2069.4	2060.9	2024.8	2067.5	1994.6	1844.2	1699.1	1571.8	1378.1
87.5°	1845.6	1842.3	1861.3	1815.4	1762.2	1731.3	1657.1	1617.7	1542.9	1422.1	1231.7
90°	1564.5	1557.3	1567.2	1538.9	1502.8	1490.4	1470.7	1449.0	1326.2	1203.4	1051.8
92.5°	1467.4	1496.3	1464.1	1462.1	1430.0	1401.1	1321.6	1198.2	1095.8	1009.8	911.9
95°	1207.4	1207.4	1209.4	1195.6	1168.7	1147.6	1111.5	1050.5	971.7	913.9	808.2
97.5°	1099.7	1100.4	1093.8	1083.3	1051.8	1026.2	991.4	941.5	878.5	805.6	690.0
100°	974.3	977.6	973.0	978.3	957.9	950.0	913.9	848.3	768.8	687.4	585.0
102.5°	891.6	888.3	882.4	874.5	848.9	820.7	783.9	735.3	676.9	601.4	502.3
105°	790.5	794.4	781.3	781.3	763.6	743.2	711.7	659.8	595.5	518.7	439.9
107.5°	720.2	718.9	706.4	703.2	688.7	660.5	632.3	579.1	521.3	458.3	382.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	10°	15°	20°	25°	30°	35°	40°	45°
110°	646.0	649.3	636.2	634.9	616.5	590.9	560.7	510.8	456.3	397.9	334.8
112.5°	577.8	579.7	565.9	565.3	549.5	525.2	502.3	456.3	409.0	355.2	301.4
115°	527.9	530.5	515.4	515.4	500.3	473.4	448.4	399.8	355.2	307.3	260.6
117.5°	472.1	469.4	457.6	458.3	442.5	414.9	395.2	352.6	310.5	268.5	228.5
120°	424.8	426.1	412.3	411.0	393.3	369.0	345.3	309.9	275.1	239.0	202.2
122.5°	362.4	362.4	349.3	349.3	333.5	310.5	290.9	255.4	229.1	200.9	172.0
125°	298.1	299.4	286.3	286.9	273.1	254.1	242.9	218.0	197.0	173.3	150.3
127.5°	254.1	256.7	246.2	248.2	237.7	221.3	212.1	188.4	171.4	147.7	128.0
130°	216.0	216.7	209.4	209.4	200.9	188.4	180.6	162.2	146.4	128.0	108.3
132.5°	185.8	185.8	177.9	178.6	170.0	158.2	152.3	135.9	122.8	107.0	93.2
135°	154.9	154.9	149.0	149.0	141.2	130.7	126.1	112.9	101.8	90.6	77.5
137.5°	126.1	126.7	120.8	121.5	116.2	108.3	105.0	93.9	85.4	74.2	63.7
140°	104.4	103.1	99.8	99.8	95.2	88.6	87.3	78.1	70.9	61.1	53.2
142.5°	85.4	85.4	82.1	83.4	78.8	72.9	71.6	64.3	57.8	51.2	44.0
145°	69.6	69.6	67.6	67.6	64.3	59.1	58.4	52.5	47.9	41.4	36.8
147.5°	57.1	57.1	55.1	55.8	52.5	49.2	47.9	42.7	38.7	34.1	30.2
150°	47.9	46.6	45.3	45.3	42.7	39.4	39.4	34.8	32.2	28.2	24.3
152.5°	38.7	38.1	37.4	37.4	34.8	32.8	31.5	28.9	26.3	22.3	19.0
155°	30.9	30.9	30.2	29.5	28.2	25.6	24.9	22.3	19.7	17.1	13.8
157.5°	24.3	24.3	23.6	23.6	21.7	19.7	19.7	17.1	14.4	11.8	9.8
160°	19.0	18.4	17.7	17.7	16.4	14.4	13.8	11.8	9.8	7.9	5.9
162.5°	13.8	13.1	13.1	12.5	11.2	9.8	9.2	7.2	5.9	4.6	3.9
165°	7.9	7.9	7.9	7.2	6.6	5.3	5.3	3.9	2.6	2.6	3.3
167.5°	3.3	3.3	3.3	2.6	2.0	2.0	2.6	2.6	2.6	2.6	3.3
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2
2.5°	3475.8	3473.8	3412.1	3377.9	3389.1	3407.5	3416.7	3439.6	3493.5	3558.5	3561.1
5°	3653.0	3622.8	3519.1	3434.4	3376.6	3331.3	3335.3	3373.3	3469.2	3571.0	3502.0
7.5°	3583.4	3721.3	3656.3	3499.4	3443.6	3391.1	3356.9	3374.0	3509.9	3593.9	3393.0
10°	3387.1	3398.3	3462.0	3588.0	3563.1	3488.9	3397.6	3348.4	3528.9	3549.9	3328.0
12.5°	3331.3	3333.3	3265.0	3382.5	3668.1	3500.0	3373.3	3254.5	3481.7	3384.5	3161.9
15°	3386.5	3336.6	3224.3	3244.0	3432.4	3556.5	3351.7	3207.9	3454.1	3280.1	3022.1
17.5°	3166.5	3297.2	3274.9	3190.8	3232.8	3527.6	3326.1	3166.5	3422.6	3159.3	2966.3
20°	3072.6	3089.1	3219.0	3181.6	3121.2	3349.0	3333.9	3100.9	3343.1	3014.9	2954.5
22.5°	3260.4	3050.3	2991.2	3225.6	3047.7	3172.4	3337.9	3014.9	3232.2	2903.2	2921.0
25°	2944.0	3173.1	2900.0	2976.1	3104.8	3034.6	3290.0	2939.4	3118.6	2818.6	2743.7
27.5°	3012.9	2880.9	3052.9	2779.2	3102.2	2903.2	3201.3	2863.9	2987.3	2762.7	2565.1
30°	3136.3	2865.2	2922.3	2801.5	2918.3	2860.6	3085.8	2777.2	2825.8	2674.1	2420.7
32.5°	2984.0	3030.0	2743.1	2858.6	2716.1	2835.6	2953.1	2697.1	2697.7	2552.7	2313.0
35°	3133.7	2910.5	2844.8	2771.3	2646.5	2763.4	2873.0	2647.9	2594.7	2454.8	2232.9
37.5°	3112.0	2951.8	2908.5	2655.1	2656.4	2699.1	2769.3	2575.6	2514.6	2335.3	2108.8
40°	3121.2	2960.4	2810.7	2645.2	2599.3	2578.9	2656.4	2470.6	2392.5	2208.6	1953.2
42.5°	3038.5	2940.7	2770.6	2619.6	2515.2	2459.4	2511.9	2341.9	2250.0	2045.1	1766.1
45°	2934.8	2838.2	2706.3	2511.9	2399.7	2307.8	2336.0	2185.0	2070.1	1848.2	1569.1
46°	2898.7	2771.9	2670.8	2471.2	2352.4	2254.6	2263.8	2115.4	1992.0	1771.4	1487.7
47.5°	2824.5	2686.6	2590.7	2396.4	2272.3	2181.7	2184.3	2014.9	1895.4	1651.2	1384.7
50°	2775.9	2577.6	2437.1	2288.1	2130.5	2034.6	2022.2	1842.9	1706.4	1459.5	1203.4
52.5°	2721.4	2485.7	2345.8	2167.3	1985.4	1883.6	1867.2	1702.4	1559.3	1309.8	1044.6
55°	2665.6	2436.4	2201.4	2032.7	1864.6	1758.2	1724.7	1563.9	1416.8	1147.6	893.6
57.5°	2628.2	2340.6	2106.9	1922.4	1747.7	1630.2	1611.8	1456.2	1282.9	1016.3	759.0
60°	2571.7	2270.3	2009.7	1797.6	1627.6	1491.7	1459.5	1299.3	1106.9	813.5	622.4
62.5°	2461.4	2187.0	1923.7	1668.3	1491.0	1373.5	1330.2	1159.5	931.0	673.0	513.4
65°	2380.0	2121.3	1826.5	1543.5	1354.5	1252.0	1216.6	1043.9	785.9	539.0	435.9
67.5°	2261.1	1984.7	1761.5	1452.3	1229.7	1129.3	1081.3	899.5	643.4	434.6	378.2
70°	2183.7	1886.3	1603.9	1355.8	1109.6	996.0	922.4	732.0	495.0	363.7	328.9
72.5°	1926.3	1717.5	1464.1	1220.5	996.6	854.8	766.2	573.8	373.6	298.7	284.3
75°	1794.3	1583.6	1341.3	1114.8	899.5	728.1	618.5	430.0	290.2	246.9	240.3
77.5°	1661.7	1440.5	1220.5	1004.5	781.9	613.9	483.9	322.4	223.2	202.2	191.7
80°	1553.4	1314.4	1076.1	877.8	685.4	501.6	376.2	237.7	170.0	160.2	149.0
82.5°	1343.3	1158.1	949.4	749.1	571.9	411.7	287.6	178.6	130.7	122.8	111.6
85°	1202.1	1002.5	800.3	635.5	467.5	328.9	220.6	133.3	97.2	91.3	80.1
87.5°	1049.8	871.2	687.4	521.3	390.0	263.3	170.7	101.1	71.6	67.0	59.1
90°	911.3	753.1	596.8	439.2	317.1	219.9	133.3	75.5	55.1	50.6	46.6
92.5°	803.6	659.2	514.7	372.9	272.5	180.6	108.3	59.7	45.3	40.7	37.4
95°	692.7	585.0	449.7	324.3	231.1	150.3	88.6	49.2	38.7	34.8	32.2
97.5°	589.6	493.7	384.7	273.8	192.4	122.8	74.2	43.3	35.5	32.8	28.2
100°	496.3	406.4	315.1	229.1	158.2	102.4	63.0	40.0	34.8	31.5	26.3
102.5°	415.6	340.7	258.7	183.2	130.7	86.0	55.1	37.4	34.8	30.2	23.6
105°	365.0	290.9	219.3	151.7	109.0	73.5	49.2	36.1	34.8	29.5	21.7
107.5°	316.5	255.4	189.1	131.3	95.2	65.0	45.3	34.8	33.5	28.2	19.7



REPORT NUMBER: P303582
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CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	277.1	221.3	166.1	117.5	86.0	58.4	42.0	34.1	32.8	26.9	18.4
112.5°	246.9	193.0	145.8	105.7	77.5	51.9	39.4	32.8	30.9	24.9	16.4
115°	214.7	170.0	128.7	94.5	69.6	45.3	36.8	30.9	28.9	23.0	15.1
117.5°	189.7	150.3	115.6	84.0	59.7	40.0	33.5	28.9	26.3	21.0	13.8
120°	165.4	128.7	99.8	72.2	49.2	35.5	29.5	25.6	23.0	18.4	11.8
122.5°	142.5	112.9	88.6	63.0	42.0	31.5	25.6	23.0	21.0	16.4	10.5
125°	126.1	99.8	78.1	52.5	36.8	27.6	22.3	20.4	18.4	14.4	9.2
127.5°	106.4	85.4	65.0	44.6	30.9	23.6	19.0	17.7	15.8	12.5	7.9
130°	90.6	71.6	53.8	37.4	27.6	20.4	16.4	14.4	13.1	10.5	6.6
132.5°	78.1	61.1	46.0	32.2	23.6	16.4	13.1	11.8	10.5	8.5	5.3
135°	64.3	51.9	39.4	27.6	19.7	13.1	10.5	9.8	8.5	6.6	4.6
137.5°	53.8	42.7	32.8	23.6	16.4	10.5	8.5	7.9	6.6	5.3	3.9
140°	44.6	34.8	27.6	19.0	12.5	7.2	7.2	5.9	5.3	4.6	3.3
142.5°	37.4	28.9	23.0	15.8	9.8	5.9	5.9	4.6	4.6	3.9	3.3
145°	30.9	24.3	19.0	11.8	6.6	4.6	5.3	4.6	3.9	3.9	3.3
147.5°	24.9	19.0	14.4	8.5	4.6	4.6	4.6	3.9	3.9	3.3	2.6
150°	19.7	14.4	10.5	5.9	3.9	3.9	3.9	3.3	3.3	3.3	2.6
152.5°	15.1	10.5	6.6	3.9	3.9	3.9	3.9	3.3	3.3	2.6	2.0
155°	10.5	7.2	4.6	3.3	3.3	3.3	3.3	3.3	2.6	2.6	2.0
157.5°	7.2	4.6	3.3	3.3	3.3	3.3	3.3	2.6	2.6	2.6	2.0
160°	4.6	3.3	3.3	3.3	3.3	3.3	3.3	2.6	2.6	2.6	2.0
162.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.6	2.6	2.6	2.0
165°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.6	2.6	2.6	2.0
167.5°	3.3	3.3	3.3	3.3	3.3	3.3	3.3	2.6	2.6	2.6	2.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P303582
 CATALOG NUMBER: WPMLED25-C

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2	3557.2
2.5°	3681.9	3584.7	3543.4	3483.6	3588.7	3444.9	3426.5	3422.6	3389.1	3359.5	3293.2
5°	3505.3	3363.5	3316.2	3230.9	3307.0	3140.9	3094.3	3085.8	3118.6	3194.1	3244.0
7.5°	3384.5	3199.4	3074.6	3045.7	3263.0	3213.8	3092.3	3025.4	2996.5	2946.6	2828.4
10°	3255.8	3072.0	3116.6	3098.2	3096.3	2877.0	2751.6	2857.9	2944.6	2932.8	2880.9
12.5°	3121.2	3182.3	3033.9	2791.6	2821.8	2897.3	2820.5	2764.7	2563.8	2489.6	2401.0
15°	3112.7	3033.9	2772.6	2745.7	2879.6	2653.1	2432.5	2445.0	2492.2	2471.2	2307.1
17.5°	3092.3	2771.9	2741.1	2689.9	2530.3	2387.9	2424.0	2253.3	2110.8	2047.1	1971.6
20°	2853.4	2678.7	2657.7	2390.5	2421.3	2273.0	2070.7	1993.9	1868.5	1690.6	1610.5
22.5°	2661.6	2655.7	2393.1	2276.9	2200.7	1993.3	1850.1	1626.9	1575.1	1491.7	1393.2
25°	2578.9	2436.4	2244.7	2091.8	1953.9	1734.6	1510.7	1498.9	1355.8	1254.0	1263.2
27.5°	2496.2	2249.3	2110.8	1853.4	1716.2	1450.3	1420.8	1249.4	1239.6	1137.1	1022.2
30°	2296.6	2108.2	1883.6	1660.4	1446.4	1382.0	1187.7	1184.4	1022.2	992.7	890.9
32.5°	2089.8	1965.7	1676.2	1424.7	1380.7	1170.0	1117.4	970.4	904.7	831.2	762.3
35°	1948.6	1761.5	1507.4	1286.2	1196.9	1090.5	941.5	852.9	780.6	711.0	679.5
37.5°	1834.4	1600.0	1335.4	1208.7	1064.9	933.0	824.0	743.2	665.7	631.6	568.6
40°	1676.2	1454.3	1231.7	1081.3	968.4	827.9	721.5	640.1	580.4	531.1	466.1
42.5°	1503.5	1287.5	1103.7	947.4	817.4	701.8	619.8	547.6	484.5	421.5	380.8
45°	1307.8	1134.5	996.0	831.2	707.1	620.4	541.7	457.0	382.1	348.0	300.7
46°	1238.2	1072.1	929.0	762.9	663.8	587.0	500.3	416.9	356.5	314.5	275.1
47.5°	1129.3	973.7	854.2	679.5	615.8	539.7	447.1	365.7	311.9	272.5	241.0
50°	975.6	848.3	711.0	601.4	532.5	458.9	364.4	298.7	252.1	226.5	202.9
52.5°	830.5	720.9	608.0	513.4	453.0	365.0	298.1	244.2	211.4	192.4	177.3
55°	706.4	612.6	520.6	445.8	367.0	300.7	246.2	203.5	181.2	167.4	156.3
57.5°	604.7	530.5	456.3	383.4	300.7	248.2	202.9	172.7	154.3	145.1	137.2
60°	508.2	464.2	397.2	308.6	244.2	203.5	165.4	145.8	133.3	124.1	120.1
62.5°	428.7	403.8	334.8	252.1	199.6	165.4	133.9	120.8	111.6	104.4	103.1
65°	372.3	347.3	273.8	205.5	162.2	131.3	108.3	98.5	91.3	87.3	84.7
67.5°	327.6	290.9	223.9	166.8	128.7	101.1	85.4	76.2	70.3	68.3	65.7
70°	286.3	241.6	184.5	132.6	99.8	78.1	65.7	57.1	52.5	47.9	47.3
72.5°	242.3	196.3	147.1	107.0	77.5	60.4	46.6	38.7	34.1	30.2	28.9
75°	197.0	155.6	113.6	82.1	57.1	42.7	28.9	20.4	13.8	3.3	0.7
77.5°	154.3	121.5	85.4	59.7	38.1	24.3	11.2	1.3	0.0	0.0	0.0
80°	116.2	89.9	63.7	41.4	23.0	10.5	2.6	0.0	0.0	0.0	0.0
82.5°	87.3	65.7	44.6	28.9	15.8	7.2	1.3	0.0	0.0	0.0	0.0
85°	64.3	48.6	32.8	21.0	11.2	4.6	0.7	0.0	0.0	0.0	0.0
87.5°	46.6	36.1	24.9	15.8	7.9	3.3	0.7	0.0	0.0	0.0	0.0
90°	36.8	28.9	19.7	12.5	6.6	2.6	0.7	0.0	0.0	0.0	0.0
92.5°	30.9	23.6	16.4	11.2	5.3	2.6	0.7	0.0	0.0	0.0	0.0
95°	26.9	20.4	13.8	8.5	4.6	2.6	0.7	0.0	0.0	0.0	0.0
97.5°	22.3	17.1	11.8	7.2	3.3	2.0	0.7	0.0	0.0	0.0	0.0
100°	19.7	14.4	9.8	5.9	2.6	1.3	0.7	0.0	0.0	0.0	0.0
102.5°	17.7	13.1	8.5	4.6	2.0	1.3	0.0	0.0	0.0	0.0	0.0
105°	15.1	11.2	7.2	3.9	2.0	1.3	0.0	0.0	0.0	0.0	0.0
107.5°	13.8	9.8	5.9	3.3	2.0	1.3	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P303582
 CATALOG NUMBER: WPMLED25-C

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
110°	12.5	8.5	5.3	2.6	1.3	0.7	0.0	0.0	0.0	0.0	0.0	0°
112.5°	11.2	7.2	3.9	2.6	1.3	0.7	0.0	0.0	0.0	0.0	0.0	2.5°
115°	9.8	5.9	3.3	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	5°
117.5°	9.2	5.3	3.3	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	7.5°
120°	7.9	4.6	2.6	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	10°
122.5°	6.6	3.9	2.6	2.0	1.3	0.7	0.0	0.0	0.0	0.0	0.0	12.5°
125°	5.9	3.3	2.6	2.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	15°
127.5°	4.6	3.3	2.6	2.0	0.7	0.7	0.0	0.0	0.0	0.0	0.0	17.5°
130°	3.9	3.3	2.0	1.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	20°
132.5°	3.9	2.6	2.0	1.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	22.5°
135°	3.3	2.6	2.0	1.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	25°
137.5°	3.3	2.6	2.0	1.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	27.5°
140°	3.3	2.6	2.0	1.3	0.7	0.7	0.0	0.0	0.0	0.0	0.0	30°
142.5°	2.6	2.0	2.0	1.3	0.7	0.7	0.7	0.0	0.0	0.0	0.0	32.5°
145°	2.6	2.0	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0	0.0	35°
147.5°	2.6	2.0	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0	0.0	37.5°
150°	2.0	2.0	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0	0.0	40°
152.5°	2.0	1.3	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0	0.0	42.5°
155°	2.0	2.0	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0	0.0	45°
157.5°	2.0	1.3	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0	0.0	46°
160°	2.0	2.0	1.3	1.3	0.7	0.7	0.7	0.0	0.0	0.0	0.0	47.5°
162.5°	2.0	2.0	2.0	1.3	0.7	0.7	0.7	0.7	0.0	0.0	0.0	50°
165°	2.6	2.0	2.0	1.3	1.3	0.7	0.7	0.7	0.7	0.0	0.0	52.5°
167.5°	2.0	2.0	2.0	1.3	0.7	0.7	0.7	0.7	0.0	0.0	0.0	55°
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	57.5°
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60°
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	62.5°
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	65°
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	67.5°
												70°
												72.5°
												75°
												77.5°
												80°
												82.5°
												85°
												87.5°
												90°
												92.5°
												95°
												97.5°
												100°
												102.5°
												105°
												107.5°



NUMBER: P303582
 NUMBER: WPMLED25-C

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
3557.2	3557.2	3557.2	3557.2	3557.2
3300.5	3318.8	3376.0	3259.8	3305.7
3275.5	3246.6	3274.2	3188.8	3215.8
2835.6	2856.6	2857.3	2779.8	2818.6
2804.8	2792.9	2754.2	2655.7	2647.2
2495.5	2511.9	2584.2	2500.1	2506.7
2158.7	2121.3	2120.0	2019.5	2031.4
1932.9	1863.3	1800.9	1674.2	1690.6
1595.4	1531.7	1487.1	1424.0	1441.1
1302.6	1279.0	1290.8	1273.0	1295.4
1204.1	1147.6	1104.3	1036.7	1050.5
985.5	1002.5	944.8	892.2	890.9
843.7	820.0	790.5	739.9	747.8
718.9	718.9	697.3	663.8	662.5
640.8	609.9	575.8	550.2	558.7
535.7	501.6	475.3	456.3	462.9
438.6	408.4	394.6	377.5	383.4
362.4	339.4	309.9	291.5	292.8
277.7	261.3	241.0	227.2	233.7
256.1	235.0	221.3	209.4	216.0
225.9	212.7	199.6	190.4	194.3
195.0	187.8	177.9	172.7	176.0
173.3	166.8	162.2	159.5	164.1
154.3	152.3	153.6	153.6	159.5
139.2	141.2	143.1	140.5	145.1
124.7	124.7	121.5	119.5	122.8
105.7	105.0	106.4	108.3	112.3
87.3	91.3	91.9	91.3	93.2
70.3	72.2	70.9	70.3	71.6
51.9	49.9	50.6	50.6	51.2
28.2	25.6	22.3	17.1	15.1
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0
0.0	0.0	0.0	0.0	0.0

CANDELA DISTRIBUTION:

160°	
110°	0.0
112.5°	0.0
115°	0.0
117.5°	0.0
120°	0.0
122.5°	0.0
125°	0.0
127.5°	0.0
130°	0.0
132.5°	0.0
135°	0.0
137.5°	0.0
140°	0.0
142.5°	0.0
145°	0.0
147.5°	0.0
150°	0.0
152.5°	0.0
155°	0.0
157.5°	0.0
160°	0.0
162.5°	0.0
165°	0.0
167.5°	0.0
170°	0.0
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

