

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: P303574

Luminaire Tested: **WPLLED25-C**

Issue Date: 6/24/2020

Test Information

Test Method: LM-79-08
Report Number: P303574
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: WPLLED25-C
Description: LARGE LED WALL PACK - 80W, 5000K
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10355.1 lumens
Efficiency: N/A
Efficacy: 127.8 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.38' x L: 0.25' x H: 0.68')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U3 - G4

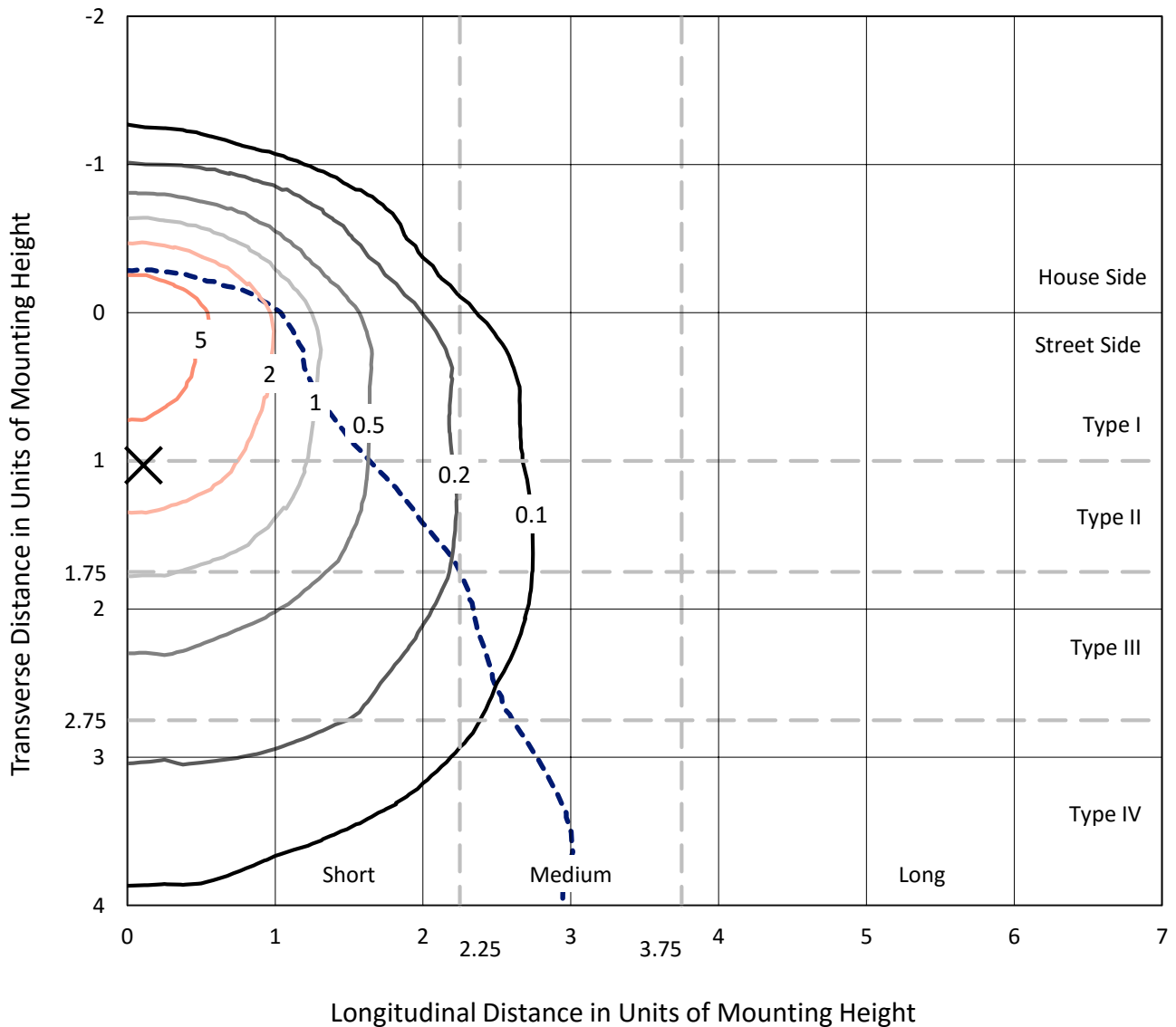
Input Watts (W): 81
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

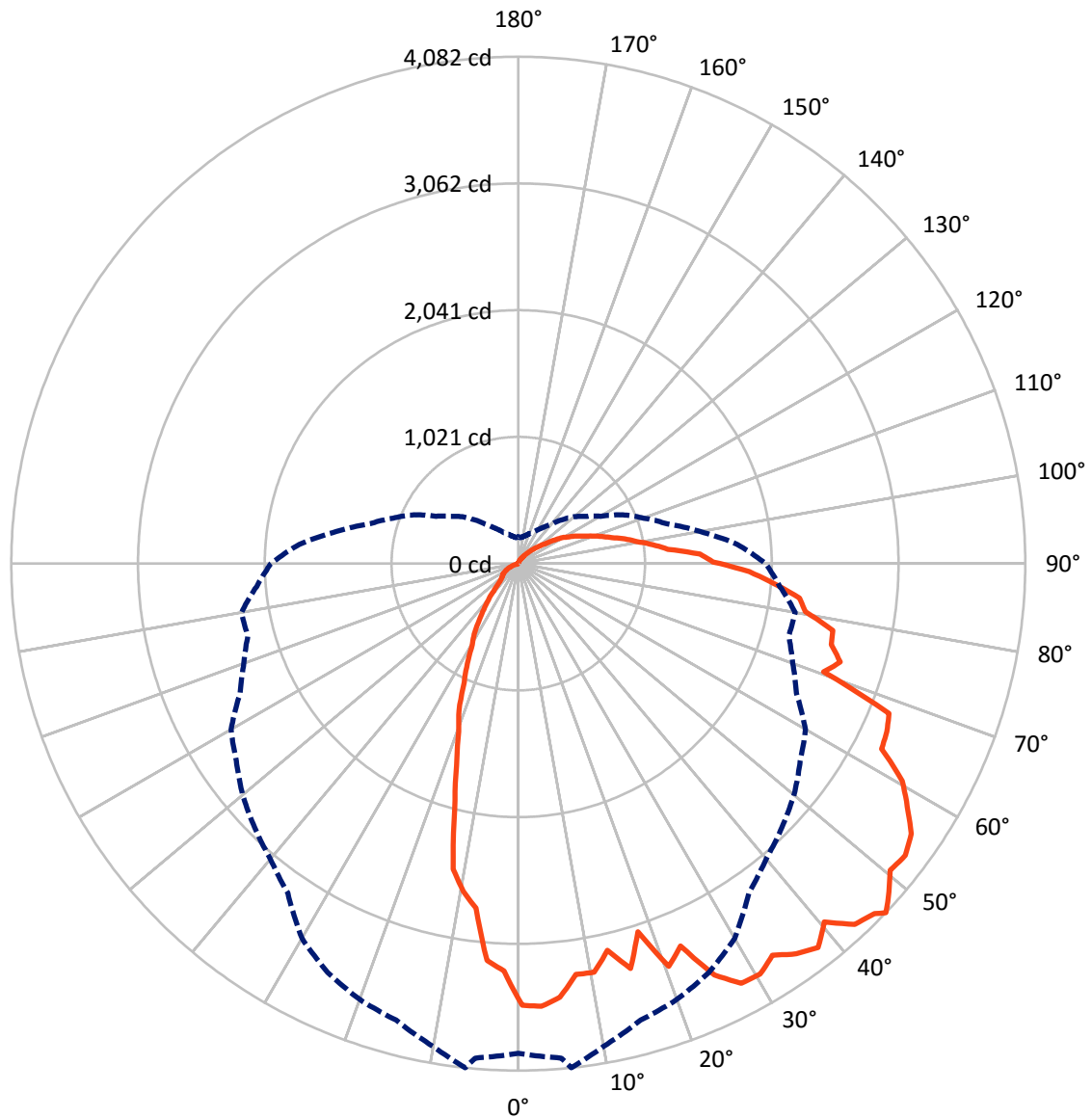
✕ Max cd
 - - - 1/2 Max cd



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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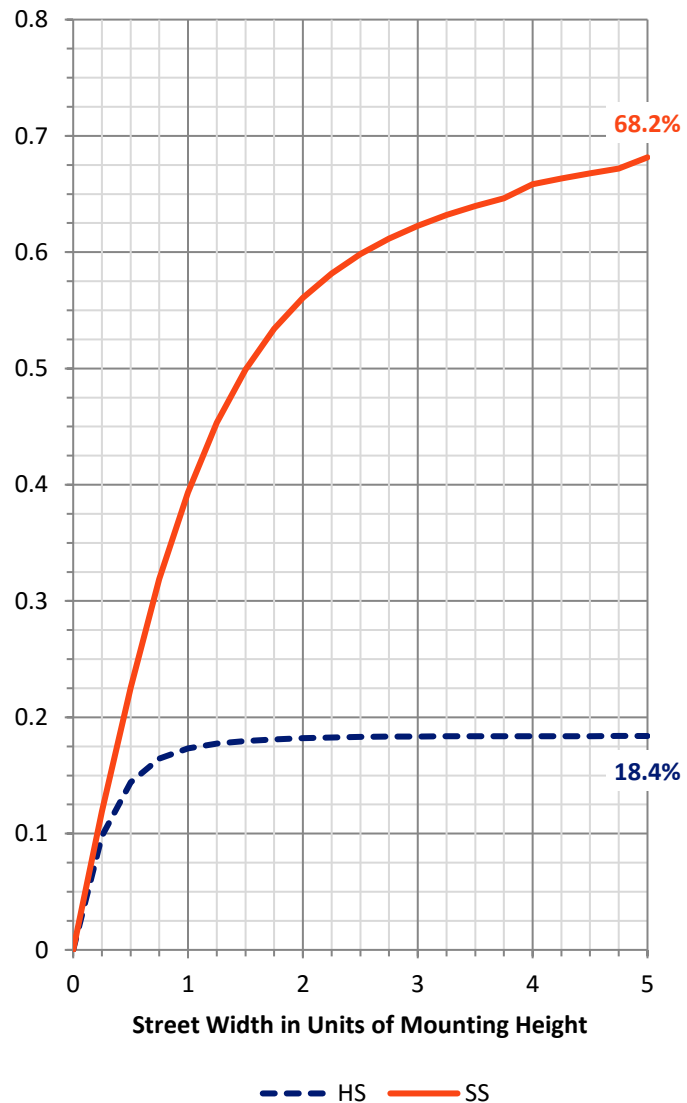
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1923.9	12.9	1936.8
	% Fixture	18.6	0.1	18.7
Street Side	Lumens	7538.0	880.3	8418.3
	% Fixture	72.8	8.5	81.3
Total	Lumens	9461.9	893.2	10355.1
	% Fixture	91.4	8.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	316.4	3.1
10°-20°	825.1	8.0
20°-30°	1154.3	11.1
30°-40°	1375.4	13.3
40°-50°	1461.3	14.1
50°-60°	1421.4	13.7
60°-70°	1249.5	12.1
70°-80°	970.6	9.4
80°-90°	688.0	6.6
90°-100°	403.4	3.9
100°-110°	233.5	2.3
110°-120°	137.0	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°	9461.9	91.4
0°-180°	10355.1	100.0



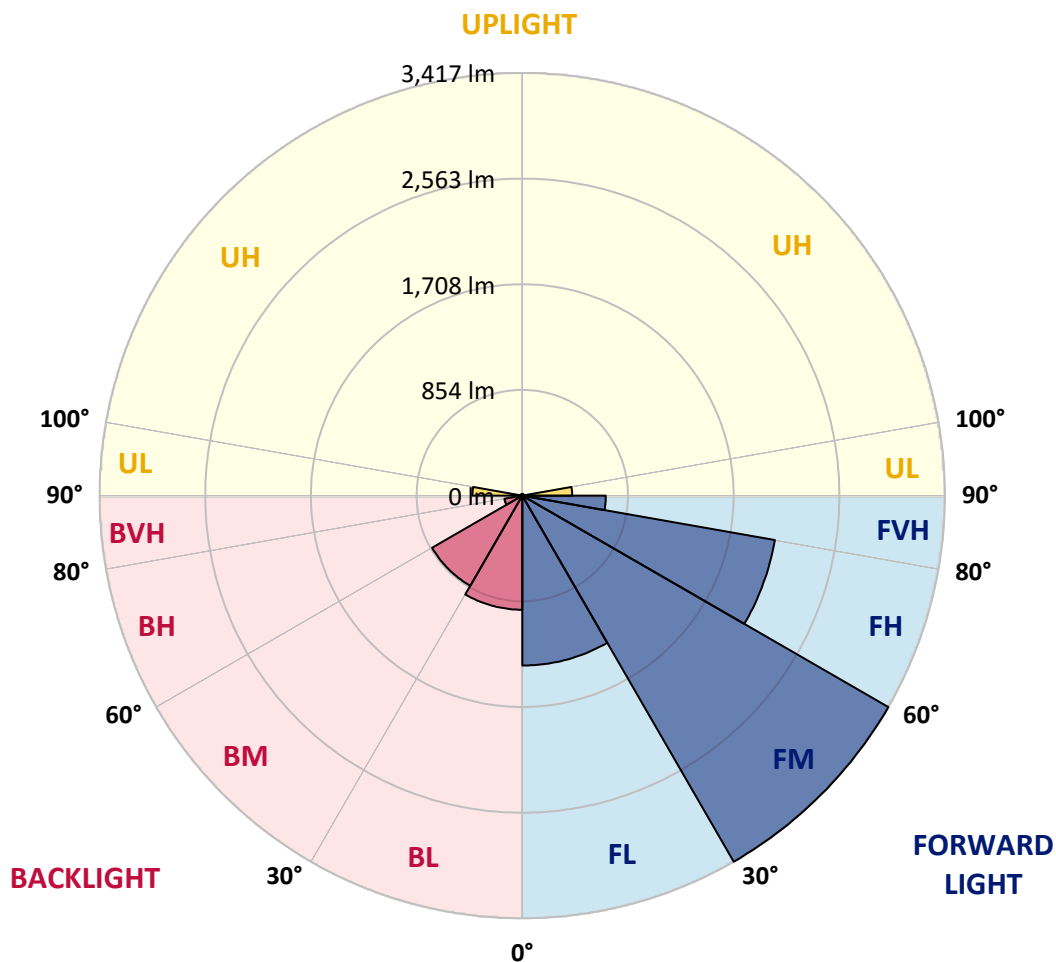
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1373.3	13.3			
FM	(30°-60°)	3416.7	33.0			
FH	(60°-80°)	2073.2	20.0			G2/5000
FVH	(80°-90°)	674.8	6.5			G4/750
BL	(0°-30°)	922.5	8.9	B2/1000		
BM	(30°-60°)	841.4	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°)	403.4	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°	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2
2.5°	3663.9	3615.9	3568.7	3539.1	3459.7	3382.9	3451.2	3432.8	3465.0	3441.3	3561.5
5°	3629.7	3568.0	3506.3	3484.7	3480.1	3524.0	3647.4	3614.6	3630.4	3612.7	3747.9
7.5°	3472.8	3393.4	3340.3	3350.1	3379.0	3286.4	3330.4	3379.0	3366.5	3277.9	3487.3
10°	3449.2	3383.6	3346.8	3415.7	3340.9	3314.0	3427.6	3302.2	3353.4	3291.0	3359.3
12.5°	3265.4	3207.0	3194.5	3228.7	3134.2	3171.6	3195.2	3248.4	3247.7	3385.6	3394.1
15°	3401.3	3348.1	3382.9	3359.3	3344.9	3265.4	3279.9	3125.6	3115.8	3162.4	3277.2
17.5°	3149.3	3113.8	3115.8	3034.4	2989.8	2989.1	3098.7	3213.6	3347.5	3145.3	3144.0
20°	3429.5	3444.6	3461.0	3424.3	3344.9	3231.3	3191.9	3029.1	2989.1	3126.3	3369.8
22.5°	3352.7	3358.6	3344.9	3283.2	3164.4	3151.9	3278.6	3352.7	3192.6	2945.8	3061.3
25°	3633.7	3642.2	3669.8	3636.9	3533.2	3434.1	3324.5	3158.4	3157.8	3267.4	3067.9
27.5°	3814.8	3778.1	3826.0	3686.8	3526.0	3436.7	3499.8	3479.4	3221.5	3058.0	3239.2
30°	3774.8	3784.0	3836.5	3787.2	3732.1	3687.5	3638.3	3448.6	3369.1	3280.5	3059.3
32.5°	3686.2	3701.9	3758.4	3679.6	3617.9	3564.7	3607.4	3583.1	3428.9	3274.0	3253.6
35°	3785.3	3797.1	3858.8	3756.4	3637.6	3547.0	3549.6	3497.1	3371.8	3338.3	3218.2
37.5°	3792.5	3822.7	3921.1	3833.2	3740.6	3660.6	3585.1	3459.1	3332.4	3251.0	3243.8
40°	3671.7	3706.5	3794.5	3678.9	3568.7	3556.2	3580.5	3491.2	3289.1	3215.6	3143.4
42.5°	3854.2	3883.7	3971.0	3799.1	3621.2	3535.9	3520.8	3445.9	3256.2	3159.8	3075.1
45°	3904.1	3948.7	4020.9	3874.5	3754.4	3675.7	3604.8	3426.2	3233.9	3124.3	3026.5
46°	3942.2	3996.6	4082.0	3947.4	3805.0	3734.7	3631.7	3484.0	3236.6	3105.3	3002.2
47.5°	3870.0	3928.4	4010.4	3909.3	3820.7	3763.6	3717.0	3542.4	3291.7	3100.7	2953.7
50°	3751.8	3794.5	3880.5	3790.5	3689.4	3672.4	3688.8	3610.0	3350.1	3162.4	2918.2
52.5°	3770.2	3810.9	3903.4	3835.8	3736.1	3697.3	3623.8	3497.8	3302.8	3184.0	2941.8
55°	3768.9	3770.2	3839.8	3688.8	3462.3	3463.0	3527.3	3495.8	3295.0	3147.9	2897.2
57.5°	3551.6	3577.9	3693.4	3661.2	3530.6	3504.4	3505.0	3424.9	3232.6	3094.8	2855.2
60°	3457.1	3444.0	3552.9	3509.6	3377.0	3391.5	3375.0	3235.9	3081.0	3041.6	2815.8
62.5°	3188.0	3173.5	3283.8	3271.3	3220.8	3236.6	3253.0	3266.7	3083.6	2911.0	2689.1
65°	3176.2	3153.2	3262.2	3191.3	3065.9	3037.0	3038.3	2985.2	2895.9	2867.0	2615.6
67.5°	3120.4	3121.7	3218.8	3191.9	3072.5	3018.6	2965.5	2890.6	2752.2	2674.7	2495.5
70°	2539.5	2514.5	2608.4	2637.9	2710.1	2832.2	2774.5	2674.0	2605.1	2542.8	2361.0
72.5°	2656.3	2624.8	2710.8	2726.6	2775.8	2783.0	2798.1	2863.1	2557.2	2319.6	2110.9
75°	2550.0	2538.8	2602.5	2542.1	2429.2	2417.4	2404.3	2391.2	2288.1	2180.5	1923.8
77.5°	2550.6	2530.3	2588.7	2510.6	2387.2	2343.9	2273.7	2166.7	2053.1	2036.1	1881.2
80°	2288.1	2302.5	2343.2	2342.6	2349.1	2412.2	2319.6	2149.6	1966.5	1844.4	1696.7
82.5°	2266.4	2250.0	2280.9	2242.2	2170.0	2131.2	2028.2	2010.5	1919.9	1745.3	1504.4
85°	2054.4	2045.9	2068.9	2060.3	2024.2	2066.9	1994.0	1843.7	1698.7	1571.3	1377.7
87.5°	1845.1	1841.8	1860.8	1814.9	1761.7	1730.8	1656.7	1617.3	1542.5	1421.7	1231.3
90°	1564.1	1556.9	1566.8	1538.5	1502.4	1490.0	1470.3	1448.6	1325.9	1203.1	1051.5
92.5°	1467.0	1495.9	1463.7	1461.7	1429.6	1400.7	1321.3	1197.9	1095.5	1009.5	911.7
95°	1207.1	1207.1	1209.0	1195.2	1168.3	1147.3	1111.2	1050.2	971.4	913.7	808.0
97.5°	1099.4	1100.1	1093.5	1083.0	1051.5	1025.9	991.1	941.2	878.2	805.4	689.8
100°	974.1	977.3	972.7	978.0	957.6	949.8	913.7	848.0	768.6	687.2	584.8
102.5°	891.3	888.1	882.2	874.3	848.7	820.5	783.7	735.1	676.7	601.2	502.1
105°	790.3	794.2	781.1	781.1	763.4	743.0	711.5	659.7	595.3	518.5	439.8
107.5°	720.0	718.7	706.3	703.0	688.5	660.3	632.1	578.9	521.2	458.1	382.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	6°	10°	15°	20°	25°	30°	35°	40°	45°
110°	645.9	649.1	636.0	634.7	616.3	590.7	560.5	510.7	456.2	397.8	334.7
112.5°	577.6	579.6	565.8	565.1	549.4	525.1	502.1	456.2	408.9	355.1	301.3
115°	527.7	530.3	515.2	515.2	500.2	473.2	448.3	399.7	355.1	307.2	260.6
117.5°	471.9	469.3	457.5	458.1	442.4	414.8	395.1	352.5	310.5	268.5	228.4
120°	424.7	426.0	412.2	410.9	393.2	368.9	345.2	309.8	275.0	238.9	202.2
122.5°	362.3	362.3	349.2	349.2	333.4	310.5	290.8	255.3	229.1	200.8	172.0
125°	298.0	299.3	286.2	286.8	273.0	254.0	242.9	217.9	196.9	173.3	150.3
127.5°	254.0	256.6	246.1	248.1	237.6	221.2	212.0	188.4	171.3	147.7	128.0
130°	215.9	216.6	209.4	209.4	200.8	188.4	180.5	162.1	146.4	128.0	108.3
132.5°	185.8	185.8	177.9	178.5	170.0	158.2	152.3	135.9	122.7	107.0	93.2
135°	154.9	154.9	149.0	149.0	141.1	130.6	126.0	112.9	101.7	90.6	77.5
137.5°	126.0	126.7	120.8	121.4	116.2	108.3	105.0	93.9	85.3	74.2	63.7
140°	104.4	103.0	99.8	99.8	95.2	88.6	87.3	78.1	70.9	61.0	53.2
142.5°	85.3	85.3	82.0	83.4	78.8	72.9	71.5	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°	30.8	30.8	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°	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2
2.5°	3474.8	3472.8	3411.1	3377.0	3388.2	3406.6	3415.7	3438.7	3492.5	3557.5	3560.1
5°	3652.0	3621.8	3518.1	3433.5	3375.7	3330.4	3334.4	3372.4	3468.3	3570.0	3501.1
7.5°	3582.5	3720.3	3655.3	3498.4	3442.7	3390.1	3356.0	3373.1	3508.9	3593.0	3392.1
10°	3386.2	3397.4	3461.0	3587.1	3562.1	3487.9	3396.7	3347.5	3528.0	3549.0	3327.1
12.5°	3330.4	3332.4	3264.1	3381.6	3667.1	3499.1	3372.4	3253.6	3480.7	3383.6	3161.1
15°	3385.6	3335.7	3223.4	3243.1	3431.5	3555.5	3350.8	3207.0	3453.2	3279.2	3021.3
17.5°	3165.7	3296.3	3274.0	3190.0	3232.0	3526.7	3325.2	3165.7	3421.7	3158.4	2965.5
20°	3071.8	3088.2	3218.2	3180.8	3120.4	3348.1	3333.0	3100.0	3342.2	3014.0	2953.7
22.5°	3259.5	3049.5	2990.4	3224.7	3046.9	3171.6	3337.0	3014.0	3231.3	2902.5	2920.2
25°	2943.2	3172.2	2899.2	2975.3	3104.0	3033.7	3289.1	2938.6	3117.8	2817.8	2743.0
27.5°	3012.1	2880.1	3052.1	2778.4	3101.3	2902.5	3200.5	2863.1	2986.5	2762.0	2564.4
30°	3135.5	2864.4	2921.5	2800.7	2917.6	2859.8	3084.9	2776.4	2825.0	2673.4	2420.0
32.5°	2983.2	3029.1	2742.3	2857.8	2715.4	2834.9	2952.3	2696.4	2697.0	2552.0	2312.4
35°	3132.8	2909.7	2844.0	2770.5	2645.8	2762.7	2872.3	2647.1	2594.0	2454.2	2232.3
37.5°	3111.2	2951.0	2907.7	2654.4	2655.7	2698.3	2768.6	2574.9	2513.9	2334.7	2108.3
40°	3120.4	2959.6	2809.9	2644.5	2598.6	2578.2	2655.7	2469.9	2391.8	2208.0	1952.7
42.5°	3037.7	2939.9	2769.9	2618.9	2514.5	2458.8	2511.3	2341.3	2249.4	2044.6	1765.6
45°	2934.0	2837.5	2705.6	2511.3	2399.0	2307.1	2335.4	2184.4	2069.5	1847.7	1568.7
46°	2897.9	2771.2	2670.1	2470.6	2351.8	2254.0	2263.2	2114.8	1991.4	1770.9	1487.3
47.5°	2823.7	2685.9	2590.0	2395.7	2271.7	2181.1	2183.7	2014.4	1894.9	1650.8	1384.3
50°	2775.1	2576.9	2436.4	2287.4	2129.9	2034.1	2021.6	1842.4	1705.9	1459.1	1203.1
52.5°	2720.6	2485.0	2345.2	2166.7	1984.9	1883.1	1866.7	1702.0	1558.9	1309.5	1044.3
55°	2664.9	2435.8	2200.8	2032.1	1864.1	1757.8	1724.3	1563.5	1416.4	1147.3	893.3
57.5°	2627.4	2340.0	2106.3	1921.8	1747.3	1629.8	1611.4	1455.8	1282.5	1016.1	758.8
60°	2571.0	2269.7	2009.1	1797.1	1627.1	1491.3	1459.1	1299.0	1106.6	813.2	622.2
62.5°	2460.7	2186.4	1923.2	1667.8	1490.6	1373.1	1329.8	1159.1	930.7	672.8	513.3
65°	2379.3	2120.7	1826.0	1543.1	1354.1	1251.7	1216.3	1043.6	785.7	538.9	435.8
67.5°	2260.5	1984.2	1761.0	1451.9	1229.4	1129.0	1081.0	899.2	643.2	434.5	378.1
70°	2183.1	1885.7	1603.5	1355.4	1109.3	995.7	922.2	731.9	494.9	363.6	328.8
72.5°	1925.8	1717.1	1463.7	1220.2	996.4	854.6	766.0	573.7	373.5	298.6	284.2
75°	1793.9	1583.2	1341.0	1114.5	899.2	727.9	618.3	429.9	290.1	246.8	240.2
77.5°	1661.3	1440.1	1220.2	1004.2	781.7	613.7	483.7	322.3	223.2	202.2	191.7
80°	1553.0	1314.1	1075.8	877.6	685.2	501.5	376.1	237.6	170.0	160.2	149.0
82.5°	1342.9	1157.8	949.1	748.9	571.7	411.5	287.5	178.5	130.6	122.7	111.6
85°	1201.8	1002.3	800.1	635.4	467.3	328.8	220.5	133.2	97.1	91.2	80.1
87.5°	1049.5	871.0	687.2	521.2	389.9	263.2	170.7	101.1	71.5	66.9	59.1
90°	911.0	752.9	596.6	439.1	317.0	219.9	133.2	75.5	55.1	50.5	46.6
92.5°	803.4	659.0	514.6	372.8	272.4	180.5	108.3	59.7	45.3	40.7	37.4
95°	692.5	584.8	449.6	324.2	231.0	150.3	88.6	49.2	38.7	34.8	32.2
97.5°	589.4	493.6	384.6	273.7	192.3	122.7	74.2	43.3	35.4	32.8	28.2
100°	496.2	406.3	315.1	229.1	158.2	102.4	63.0	40.0	34.8	31.5	26.3
102.5°	415.5	340.7	258.6	183.1	130.6	86.0	55.1	37.4	34.8	30.2	23.6
105°	364.9	290.8	219.2	151.6	109.0	73.5	49.2	36.1	34.8	29.5	21.7
107.5°	316.4	255.3	189.0	131.3	95.2	65.0	45.3	34.8	33.5	28.2	19.7



REPORT NUMBER: P303574
 CATALOG NUMBER: WPLLED25-C

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
110°	277.0	221.2	166.1	117.5	86.0	58.4	42.0	34.1	32.8	26.9	18.4
112.5°	246.8	193.0	145.7	105.7	77.5	51.9	39.4	32.8	30.8	24.9	16.4
115°	214.6	170.0	128.6	94.5	69.6	45.3	36.8	30.8	28.9	23.0	15.1
117.5°	189.7	150.3	115.5	84.0	59.7	40.0	33.5	28.9	26.3	21.0	13.8
120°	165.4	128.6	99.8	72.2	49.2	35.4	29.5	25.6	23.0	18.4	11.8
122.5°	142.4	112.9	88.6	63.0	42.0	31.5	25.6	23.0	21.0	16.4	10.5
125°	126.0	99.8	78.1	52.5	36.8	27.6	22.3	20.3	18.4	14.4	9.2
127.5°	106.3	85.3	65.0	44.6	30.8	23.6	19.0	17.7	15.8	12.5	7.9
130°	90.6	71.5	53.8	37.4	27.6	20.3	16.4	14.4	13.1	10.5	6.6
132.5°	78.1	61.0	45.9	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°	30.8	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: P303574
 CATALOG NUMBER: WPLLED25-C

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2	3556.2
2.5°	3680.9	3583.8	3542.4	3482.7	3587.7	3444.0	3425.6	3421.7	3388.2	3358.6	3292.3
5°	3504.4	3362.6	3315.3	3230.0	3306.1	3140.1	3093.5	3084.9	3117.8	3193.2	3243.1
7.5°	3383.6	3198.5	3073.8	3044.9	3262.2	3212.9	3091.5	3024.5	2995.7	2945.8	2827.6
10°	3254.9	3071.1	3115.8	3097.4	3095.4	2876.2	2750.8	2857.2	2943.8	2932.0	2880.1
12.5°	3120.4	3181.4	3033.1	2790.9	2821.1	2896.6	2819.8	2764.0	2563.1	2489.0	2400.3
15°	3111.8	3033.1	2771.8	2744.9	2878.8	2652.4	2431.8	2444.3	2491.6	2470.6	2306.5
17.5°	3091.5	2771.2	2740.3	2689.1	2529.6	2387.2	2423.3	2252.7	2110.2	2046.6	1971.1
20°	2852.6	2678.0	2657.0	2389.8	2420.7	2272.3	2070.2	1993.4	1868.0	1690.1	1610.1
22.5°	2660.9	2655.0	2392.5	2276.3	2200.1	1992.7	1849.6	1626.5	1574.6	1491.3	1392.8
25°	2578.2	2435.8	2244.1	2091.2	1953.4	1734.1	1510.3	1498.5	1355.4	1253.7	1262.9
27.5°	2495.5	2248.7	2110.2	1852.9	1715.7	1449.9	1420.4	1249.1	1239.2	1136.8	1022.0
30°	2296.0	2107.6	1883.1	1660.0	1446.0	1381.7	1187.4	1184.1	1022.0	992.4	890.7
32.5°	2089.2	1965.2	1675.7	1424.3	1380.3	1169.6	1117.1	970.1	904.5	831.0	762.0
35°	1948.1	1761.0	1507.0	1285.8	1196.6	1090.2	941.2	852.6	780.4	710.8	679.3
37.5°	1833.9	1599.6	1335.1	1208.4	1064.6	932.7	823.7	743.0	665.6	631.4	568.4
40°	1675.7	1453.9	1231.3	1081.0	968.1	827.7	721.3	640.0	580.2	531.0	466.0
42.5°	1503.1	1287.1	1103.4	947.1	817.2	701.7	619.6	547.4	484.4	421.4	380.7
45°	1307.5	1134.2	995.7	831.0	706.9	620.3	541.5	456.8	382.0	347.9	300.6
46°	1237.9	1071.9	928.8	762.7	663.6	586.8	500.2	416.8	356.4	314.4	275.0
47.5°	1129.0	973.4	853.9	679.3	615.7	539.5	447.0	365.6	311.8	272.4	240.9
50°	975.4	848.0	710.8	601.2	532.3	458.8	364.3	298.6	252.0	226.4	202.8
52.5°	830.3	720.7	607.8	513.3	452.9	364.9	298.0	244.2	211.4	192.3	177.2
55°	706.3	612.4	520.5	445.7	366.9	300.6	246.1	203.5	181.2	167.4	156.2
57.5°	604.5	530.3	456.2	383.3	300.6	248.1	202.8	172.6	154.2	145.1	137.2
60°	508.0	464.1	397.1	308.5	244.2	203.5	165.4	145.7	133.2	124.1	120.1
62.5°	428.6	403.7	334.7	252.0	199.5	165.4	133.9	120.8	111.6	104.4	103.0
65°	372.2	347.2	273.7	205.4	162.1	131.3	108.3	98.5	91.2	87.3	84.7
67.5°	327.5	290.8	223.8	166.7	128.6	101.1	85.3	76.1	70.2	68.3	65.6
70°	286.2	241.5	184.4	132.6	99.8	78.1	65.6	57.1	52.5	47.9	47.3
72.5°	242.2	196.3	147.0	107.0	77.5	60.4	46.6	38.7	34.1	30.2	28.9
75°	196.9	155.6	113.6	82.0	57.1	42.7	28.9	20.3	13.8	3.3	0.7
77.5°	154.2	121.4	85.3	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	65.6	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°	30.8	23.6	16.4	11.2	5.3	2.6	0.7	0.0	0.0	0.0	0.0
95°	26.9	20.3	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: P303574
 CATALOG NUMBER: WPLLED25-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°



LUMBER: P303574
 NUMBER: WPLLED25-C

REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
3556.2	3556.2	3556.2	3556.2	3556.2
3299.6	3317.9	3375.0	3258.9	3304.8
3274.6	3245.7	3273.3	3188.0	3214.9
2834.9	2855.9	2856.5	2779.1	2817.8
2804.0	2792.2	2753.5	2655.0	2646.5
2494.9	2511.3	2583.5	2499.5	2506.0
2158.1	2120.7	2119.4	2019.0	2030.8
1932.3	1862.8	1800.4	1673.7	1690.1
1595.0	1531.3	1486.7	1423.7	1440.7
1302.2	1278.6	1290.4	1272.7	1295.0
1203.8	1147.3	1104.0	1036.4	1050.2
985.2	1002.3	944.5	892.0	890.7
843.4	819.8	790.3	739.7	747.6
718.7	718.7	697.1	663.6	662.3
640.6	609.8	575.6	550.0	558.6
535.6	501.5	475.2	456.2	462.7
438.5	408.3	394.5	377.4	383.3
362.3	339.3	309.8	291.4	292.7
277.6	261.2	240.9	227.1	233.7
256.0	235.0	221.2	209.4	215.9
225.8	212.7	199.5	190.3	194.3
194.9	187.7	177.9	172.6	175.9
173.3	166.7	162.1	159.5	164.1
154.2	152.3	153.6	153.6	159.5
139.2	141.1	143.1	140.5	145.1
124.7	124.7	121.4	119.5	122.7
105.7	105.0	106.3	108.3	112.2
87.3	91.2	91.9	91.2	93.2
70.2	72.2	70.9	70.2	71.5
51.9	49.9	50.5	50.5	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

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

'303574
WPLLED25-C

TION (continued):

165°	170°	175°	180°
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	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

(END OF REPORT)