

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: P210685

Luminaire Tested: **WPLLED-125-GL-UNV-7050**

Test Date: 10/26/16

Test Information

Test Method: LM-79-08
Report Number: P210685
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29006)
Test Lab: INNOVATION CENTER-P2
Test Date: 10/26/16
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMARK
Catalog Number: WPLLED-125-GL-UNV-7050
Description: LED WALL PACK
Light Source: (4) CREE 5000K LEDS
CXA3050
Ballast/Driver: (4) MEAN WELL ELECTRONIC DRIVERS
MW HLG-150H-48

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15378.7 lumens
Efficiency: N/A
Efficacy: 126.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.25' x L: 0.42' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U5 - G5

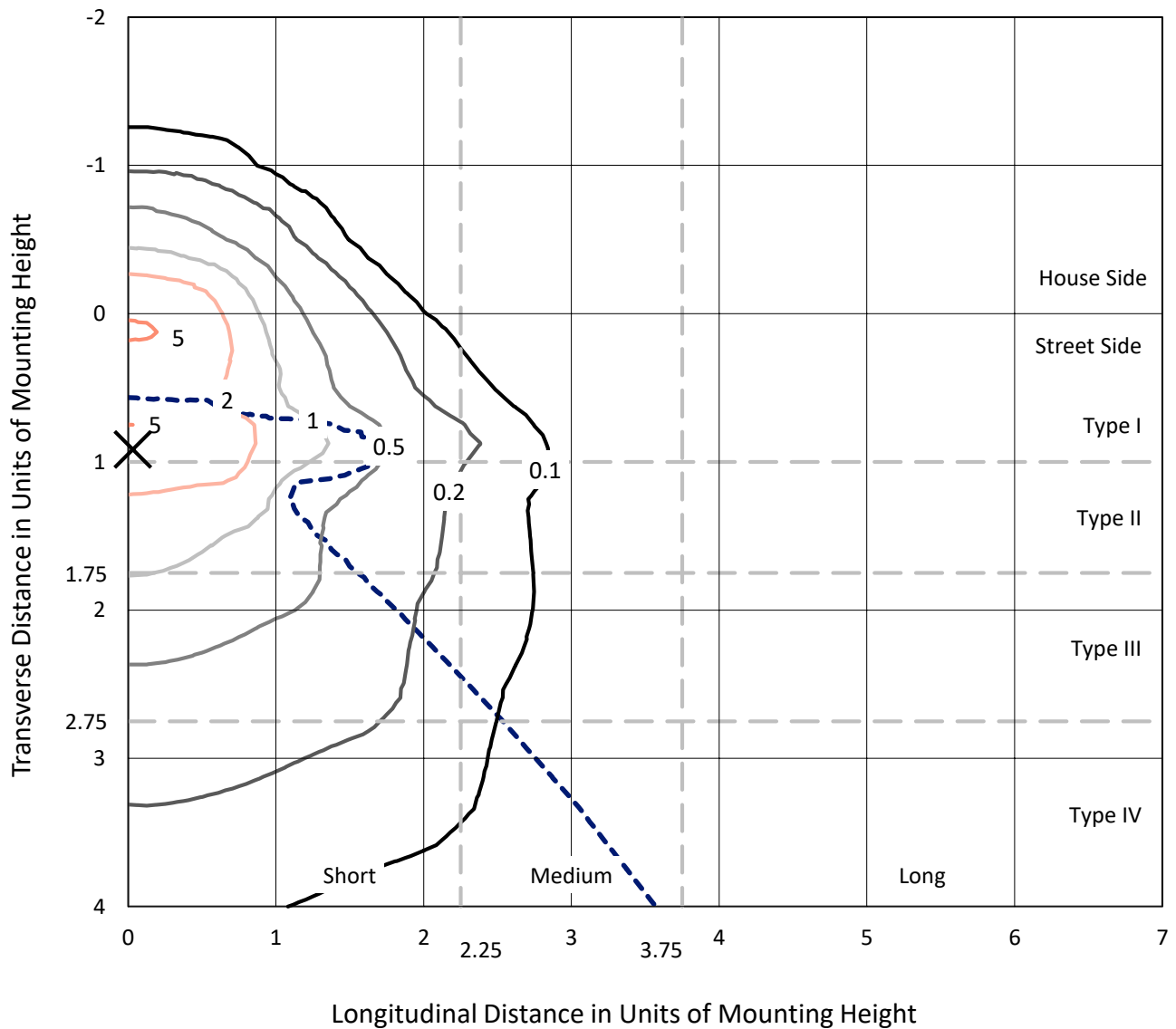
Input Watts (W): 121.6
Input Voltage (V): 120.1
Input Current (Ain): 1.02
Voltage Rise (V): NR
Power Factor: 0.9998
Total Harmonic Distortion (THDi): 8.04%
Frequency (hertz): 60
Stabilization Time: 1 HR
Operation Time: 3 HR
Ambient Temperature (°C): 24.8
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

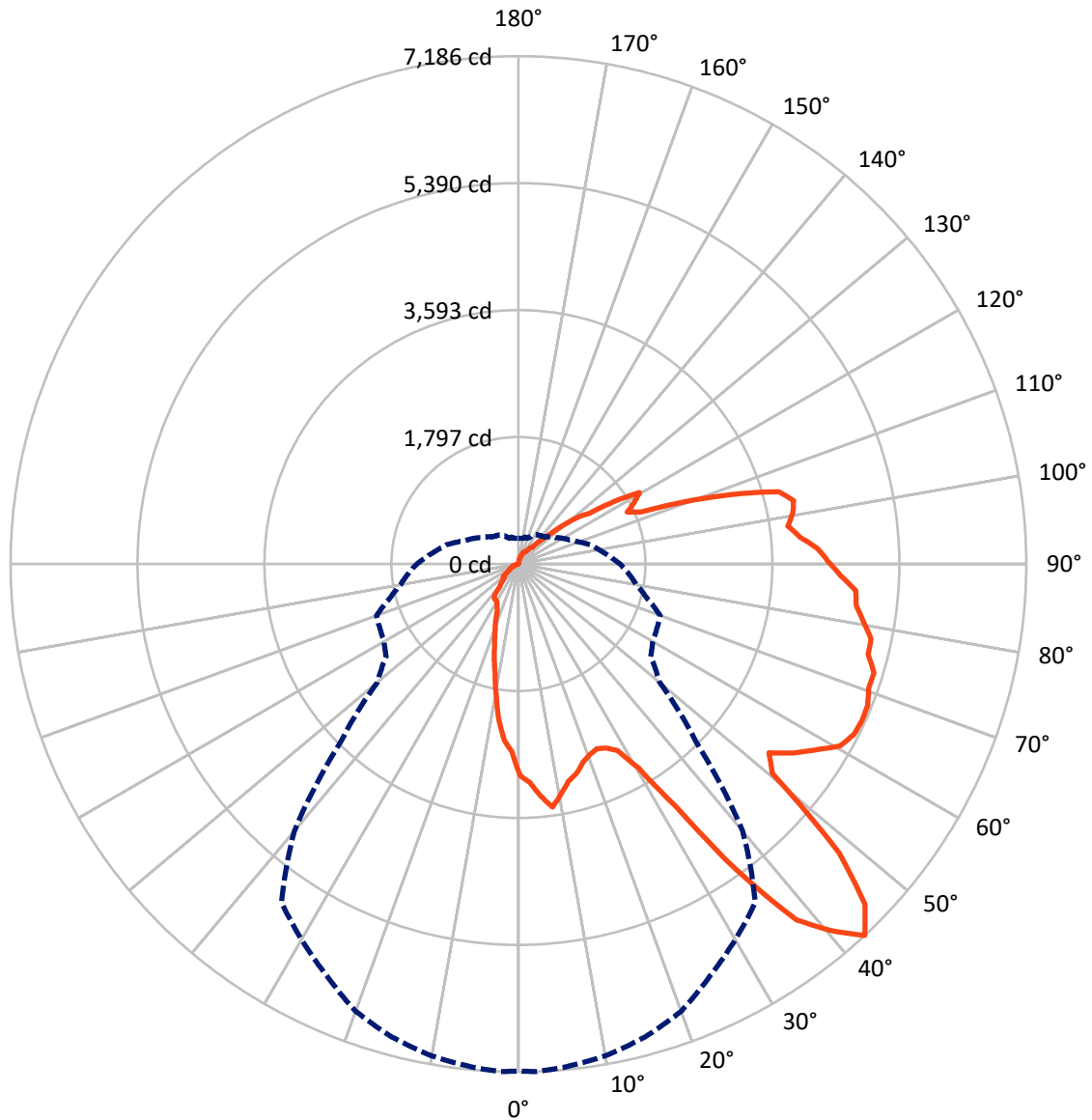
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 2-Deg Lateral - - - Horizontal Cone Through 42.5-Deg Vertical

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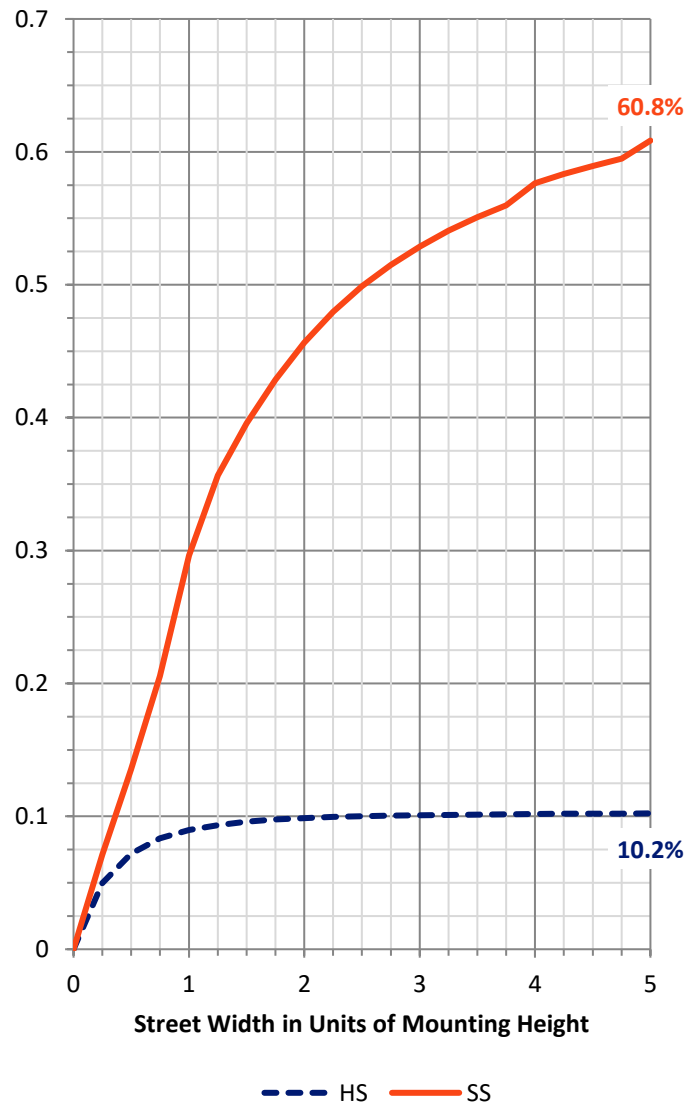
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1597.0	99.2	1696.2
	% Fixture	10.4	0.6	11.0
Street Side	Lumens	10510.4	3172.1	13682.5
	% Fixture	68.3	20.6	89.0
Total	Lumens	12107.4	3271.3	15378.7
	% Fixture	78.7	21.3	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	275.8	1.8
10°-20°	706.5	4.6
20°-30°	964.1	6.3
30°-40°	1357.5	8.8
40°-50°	1847.0	12.0
50°-60°	1783.1	11.6
60°-70°	1819.3	11.8
70°-80°	1779.2	11.6
80°-90°	1574.9	10.2
90°-100°	1301.4	8.5
100°-110°	944.3	6.1
110°-120°	501.8	3.3
120°-130°	291.1	1.9
130°-140°	125.9	0.8
140°-150°	65.8	0.4
150°-160°	31.5	0.2
160°-170°	9.2	0.1
170°-180°	0.3	0.0
0°-90°	12107.4	78.7
0°-180°	15378.7	100.0



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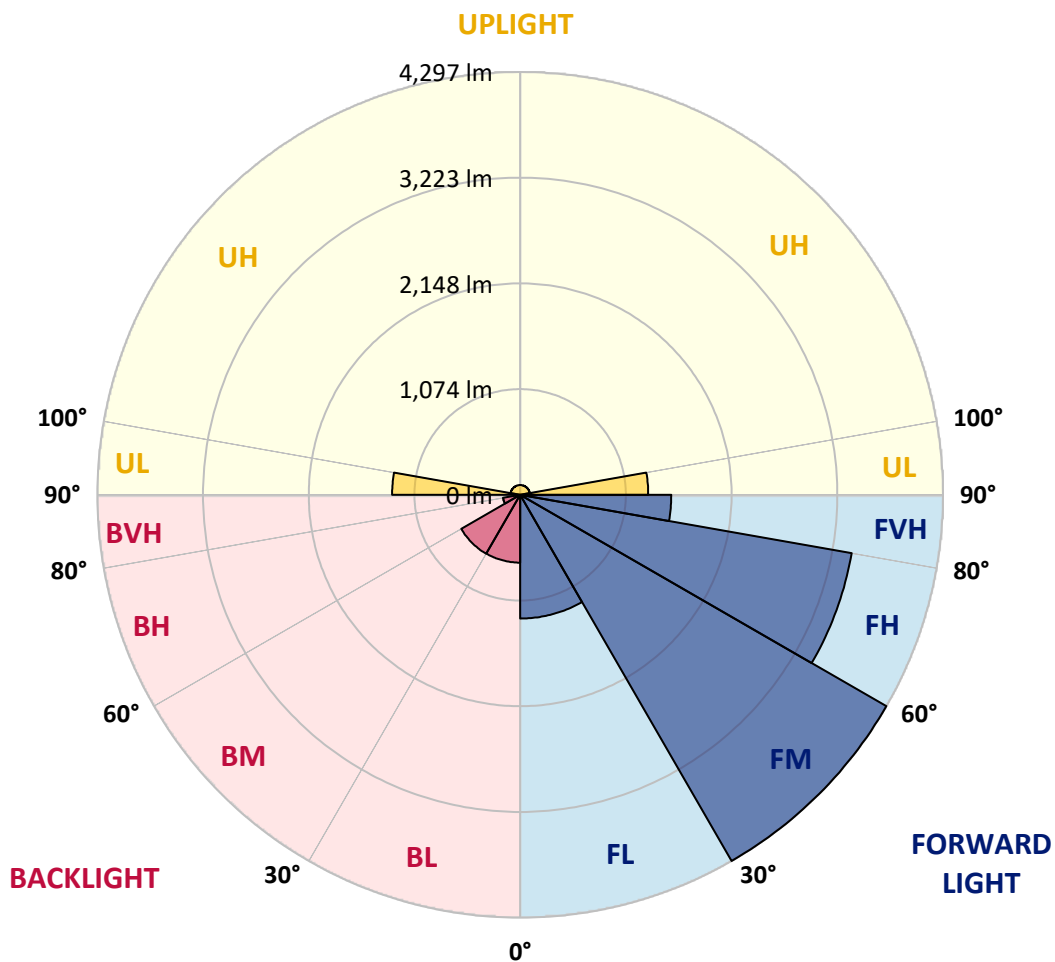
CATALOG NUMBER: WPLLED-125-GL-UNV-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1257.2	8.2			
FM (30°-60°)	4296.8	27.9			
FH (60°-80°)	3420.9	22.2			G2/5000
FVH (80°-90°)	1535.5	10.0			G5
BL (0°-30°)	689.2	4.5	B2/1000		
BM (30°-60°)	690.8	4.5	B1/1000		
BH (60°-80°)	177.6	1.2	B1/500		G1/500
BVH (80°-90°)	39.5	0.3			G1/100
UL (90°-100°)	1301.4	8.5		U5	
UH (100°-180°)	99.2	0.6		U3/500	

BUG Rating: B2-U5-G5

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	10°	15°	20°	25°	30°	35°	40°	45°
0°	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8
2.5°	3099.2	3094.3	3093.4	3097.3	3098.2	3103.1	3108.0	3110.9	3117.7	3119.7	3121.6
5°	3323.5	3298.1	3293.3	3301.1	3287.4	3273.8	3264.0	3238.7	3230.9	3203.6	3187.9
7.5°	3464.9	3471.7	3479.5	3484.4	3494.2	3493.2	3498.1	3494.2	3474.7	3412.2	3368.4
10°	3306.9	3309.8	3310.8	3311.8	3315.7	3334.2	3351.8	3378.1	3414.2	3475.6	3494.2
12.5°	3147.0	3153.8	3165.5	3169.4	3178.2	3205.5	3231.8	3256.2	3289.4	3311.8	3373.2
15°	3068.0	3076.8	3085.6	3085.6	3101.2	3099.2	3102.1	3105.1	3146.0	3207.5	3246.5
17.5°	2945.1	2951.0	2957.8	2957.8	2975.4	2989.0	3015.3	3038.7	3063.1	3063.1	3106.0
20°	2876.9	2878.8	2876.9	2871.0	2863.2	2866.1	2880.8	2914.9	2948.0	2976.3	2978.3
22.5°	2836.9	2840.8	2836.9	2837.8	2827.1	2825.2	2820.3	2808.6	2827.1	2842.7	2863.2
25°	2883.7	2883.7	2874.9	2857.4	2833.0	2803.7	2790.1	2781.3	2758.9	2739.4	2755.9
27.5°	2987.1	2987.1	2973.4	2949.0	2912.9	2872.0	2819.3	2761.8	2735.5	2701.3	2705.2
30°	3368.4	3344.0	3316.7	3249.4	3144.1	3028.0	2917.8	2820.3	2733.5	2708.1	2734.5
32.5°	4126.1	4078.3	4048.1	3930.1	3741.9	3505.9	3256.2	2995.8	2838.8	2768.6	2832.0
35°	5282.7	5328.5	5272.9	5071.1	4760.0	4373.8	3970.1	3493.2	3166.5	2973.4	2940.2
37.5°	6401.3	6388.6	6349.6	6255.9	6049.2	5675.7	5131.5	4337.7	3807.2	3383.0	3030.0
40°	6822.5	6825.5	6779.6	6722.1	6602.1	6403.2	6065.8	5502.1	4875.1	4006.1	3193.8
42.5°	7172.6	7186.3	7152.2	7067.3	6927.9	6733.8	6424.7	6137.0	5844.4	4934.5	3548.8
45°	6896.7	6875.2	6865.5	6828.4	6805.0	6821.6	6694.8	6570.9	6255.0	5547.0	4294.8
47.5°	6175.0	6107.7	6092.1	6169.2	6286.2	6446.1	6553.4	6863.5	6457.8	5674.7	4843.8
50°	4773.6	4658.6	4691.7	4780.5	5006.7	5400.7	5965.3	6701.6	6314.5	5548.9	4991.1
52.5°	4467.4	4437.2	4415.7	4289.9	4245.1	4269.5	4699.5	5782.0	5894.1	5081.8	4770.7
55°	4734.6	4721.9	4692.7	4536.7	4386.5	4208.0	4166.1	4682.0	4868.2	4425.5	4246.0
57.5°	4987.2	4960.9	4940.4	4794.1	4613.7	4421.6	4259.7	4445.0	4268.5	3602.4	3631.7
60°	5214.4	5227.1	5178.3	5063.3	4855.6	4640.0	4445.0	4554.2	4301.6	3449.3	3069.9
62.5°	5319.7	5322.7	5290.5	5186.1	5015.5	4842.9	4675.1	4733.7	4405.0	3514.6	3046.5
65°	5333.4	5342.2	5311.0	5221.3	5067.2	4906.3	4783.4	4887.7	4577.6	3587.8	3099.2
67.5°	5303.2	5330.5	5292.4	5202.7	5071.1	4943.3	4869.2	4958.9	4662.5	3680.4	3138.2
70°	5221.3	5258.3	5220.3	5131.5	4991.1	4864.3	4813.6	4990.1	4721.9	3757.5	3173.3
72.5°	5207.6	5261.2	5224.2	5121.8	4993.1	4852.6	4811.7	4943.3	4680.0	3792.6	3210.4
75°	5072.0	5110.1	5082.8	4998.9	4893.6	4773.6	4747.3	4920.9	4681.0	3802.3	3228.9
77.5°	5044.7	5100.3	5065.2	4949.2	4810.7	4665.4	4668.3	4812.6	4579.6	3767.2	3216.2
80°	4883.8	4950.1	4897.5	4813.6	4714.1	4578.6	4582.5	4767.8	4502.5	3659.9	3119.7
82.5°	4783.4	4816.5	4775.6	4660.5	4539.6	4417.7	4436.2	4556.2	4289.0	3497.1	3014.4
85°	4732.7	4787.3	4725.8	4620.5	4485.0	4323.1	4289.0	4409.9	4104.6	3347.9	2904.2
87.5°	4504.5	4556.2	4517.2	4404.0	4261.7	4131.9	4103.7	4163.2	3880.3	3201.6	2790.1
90°	4354.3	4381.6	4338.7	4235.3	4073.4	3923.3	3886.2	3954.5	3669.7	3040.7	2661.3
92.5°	4211.9	4235.3	4196.3	4082.2	3927.2	3767.2	3730.2	3783.8	3532.2	2934.4	2542.4
95°	3986.6	3999.3	3948.6	3872.5	3725.3	3615.1	3647.3	3722.4	3419.1	2851.5	2454.6
97.5°	3839.4	3851.1	3807.2	3764.3	3656.0	3583.9	3635.6	3714.6	3384.0	2788.1	2351.2
100°	3948.6	3949.6	3922.3	3896.9	3822.8	3747.7	3752.6	3654.1	3245.5	2613.6	2141.6
102.5°	4009.1	3995.4	3967.1	3928.1	3789.7	3659.9	3555.6	3378.1	2954.9	2291.7	1820.7
105°	3849.1	3825.7	3777.9	3679.5	3472.7	3259.1	3026.1	2858.3	2399.0	1848.0	1488.2
107.5°	3210.4	3189.9	3154.8	3035.8	2848.6	2633.1	2421.4	2199.1	1825.6	1481.3	1275.6
110°	2523.8	2506.3	2451.7	2358.0	2219.6	2012.8	1807.1	1676.4	1497.9	1335.1	1195.6



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CANDELA DISTRIBUTION (continued):

	0°	2°	5°	10°	15°	20°	25°	30°	35°	40°	45°
112.5°	1903.6	1881.2	1847.0	1781.7	1693.9	1579.8	1511.6	1525.2	1510.6	1370.2	1086.4
115°	1706.6	1706.6	1698.8	1675.4	1632.5	1592.5	1606.2	1648.1	1568.1	1262.9	969.4
117.5°	1855.8	1853.9	1857.8	1832.4	1782.7	1746.6	1716.4	1629.6	1376.0	1099.1	809.4
120°	1994.3	1989.4	1971.9	1921.2	1824.6	1684.2	1479.4	1314.6	1117.6	918.6	676.8
122.5°	1667.6	1636.4	1613.0	1516.4	1406.2	1261.9	1154.6	1056.1	940.1	772.4	574.4
125°	1245.3	1237.5	1225.8	1196.6	1144.9	1077.6	994.7	906.9	773.3	615.4	467.1
127.5°	1101.0	1087.4	1071.8	1037.6	967.4	879.6	813.3	716.8	621.2	494.4	386.2
130°	877.7	871.8	864.0	840.6	780.2	710.0	643.6	552.9	473.0	395.0	327.7
132.5°	667.0	657.3	658.3	631.9	587.1	538.3	485.7	426.2	373.5	322.8	287.7
135°	509.1	500.3	501.3	480.8	441.8	407.6	380.3	360.8	338.4	311.1	294.5
137.5°	409.6	409.6	408.6	407.6	397.9	383.3	372.5	358.9	339.4	293.5	259.4
140°	304.3	300.4	302.3	300.4	285.7	277.9	275.0	272.1	265.3	261.4	257.5
142.5°	288.7	289.6	287.7	289.6	288.7	287.7	292.6	296.5	299.4	293.5	279.9
145°	263.3	261.4	261.4	264.3	258.4	252.6	253.6	249.7	249.7	238.9	224.3
147.5°	220.4	219.4	220.4	223.3	222.3	221.4	222.3	223.3	221.4	212.6	200.9
150°	196.0	195.0	196.0	199.9	200.9	200.9	203.8	203.8	200.9	195.0	186.3
152.5°	194.1	194.1	194.1	197.0	198.9	198.0	196.0	195.0	189.2	179.4	171.6
155°	182.4	182.4	183.3	185.3	185.3	182.4	179.4	174.6	166.8	157.0	151.2
157.5°	167.7	167.7	167.7	166.8	163.8	159.0	155.1	148.2	142.4	135.6	127.8
160°	138.5	138.5	138.5	137.5	134.6	131.7	129.7	126.8	120.0	111.2	101.4
162.5°	114.1	114.1	115.1	115.1	114.1	111.2	106.3	102.4	94.6	84.8	76.1
165°	94.6	94.6	94.6	92.6	90.7	86.8	81.9	77.0	69.2	61.4	52.7
167.5°	66.3	66.3	66.3	65.3	62.4	59.5	55.6	51.7	42.9	34.1	25.4
170°	35.1	35.1	35.1	33.2	31.2	29.3	25.4	21.5	14.6	10.7	8.8
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°	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8
2.5°	3119.7	3115.8	3113.8	3108.0	3100.2	3091.4	3074.8	3055.3	3027.0	2996.8	2962.7
5°	3170.4	3151.9	3144.1	3135.3	3125.5	3111.9	3089.5	3054.3	3004.6	2944.1	2873.9
7.5°	3298.1	3237.7	3190.9	3149.9	3127.5	3117.7	3090.4	3049.5	2983.2	2888.6	2787.1
10°	3468.8	3379.1	3283.5	3194.8	3125.5	3099.2	3075.8	3034.8	2946.1	2821.3	2720.8
12.5°	3436.6	3446.4	3382.0	3250.4	3133.3	3067.0	3040.7	2992.9	2882.7	2739.4	2664.3
15°	3290.3	3363.5	3380.1	3289.4	3120.7	3013.4	2978.3	2930.5	2801.8	2661.3	2612.6
17.5°	3165.5	3201.6	3271.8	3270.8	3100.2	2951.9	2915.9	2873.0	2731.6	2613.6	2566.7
20°	2991.9	3057.3	3115.8	3202.6	3098.2	2903.2	2861.3	2835.9	2675.0	2597.9	2487.8
22.5°	2862.2	2900.3	2999.7	3123.6	3108.0	2893.4	2821.3	2788.1	2624.3	2573.6	2391.2
25°	2790.1	2807.6	2924.6	3054.3	3098.2	2871.0	2790.1	2721.8	2564.8	2477.0	2277.1
27.5°	2761.8	2817.4	2886.6	3019.2	3069.9	2835.9	2727.7	2609.7	2466.3	2322.0	2129.9
30°	2807.6	2878.8	2888.6	2965.6	2978.3	2725.7	2594.0	2443.9	2283.9	2123.0	1938.7
32.5°	2892.5	2902.2	2861.3	2845.7	2804.7	2537.5	2391.2	2229.3	2073.3	1897.8	1723.2
35°	2915.9	2851.5	2733.5	2632.1	2564.8	2320.0	2184.5	2033.3	1887.0	1692.0	1567.2
37.5°	2832.0	2679.9	2502.4	2385.4	2366.8	2156.2	2024.5	1883.1	1736.8	1553.5	1430.6
40°	2674.0	2436.1	2295.6	2238.1	2243.0	2021.6	1855.8	1709.5	1573.0	1418.9	1292.1
42.5°	2605.8	2283.9	2194.2	2161.1	2136.7	1886.0	1695.9	1564.2	1436.5	1286.3	1158.5
45°	2914.9	2290.8	2165.9	2123.0	2058.7	1773.9	1575.0	1443.3	1325.3	1166.3	1055.2
47.5°	3743.8	2534.6	2202.0	2144.5	2045.0	1725.1	1510.6	1353.6	1218.0	1077.6	966.4
50°	4405.0	3173.3	2338.5	2171.8	2019.7	1681.3	1470.6	1295.1	1136.1	1022.0	873.8
52.5°	4691.7	4035.4	2648.7	2134.7	1916.3	1620.8	1443.3	1246.3	1088.3	958.6	778.2
55°	4579.6	4539.6	3438.6	2144.5	1806.1	1577.9	1408.2	1193.7	1053.2	870.9	690.4
57.5°	4060.8	4584.4	4030.5	2324.9	1732.9	1543.8	1322.4	1138.1	958.6	750.9	601.7
60°	3500.0	3886.2	4174.9	2974.4	1735.9	1497.9	1249.2	1080.5	848.4	650.5	506.1
62.5°	3060.2	3300.1	3673.6	3425.9	1819.7	1438.4	1196.6	1023.0	734.3	566.6	399.8
65°	2959.8	2812.5	2834.9	3332.3	2181.5	1412.1	1171.2	947.9	683.6	500.3	306.2
67.5°	2981.2	2713.0	2437.0	2514.1	2637.9	1465.7	1147.8	830.9	630.0	422.3	251.6
70°	3029.0	2676.0	2261.5	1962.1	2446.8	1650.0	1125.4	765.5	558.8	313.0	204.8
72.5°	3034.8	2687.7	2239.1	1894.8	1869.5	1757.3	1074.7	767.5	494.4	245.8	176.5
75°	2997.8	2668.2	2200.1	1850.0	1536.9	1546.7	1061.0	650.5	356.9	194.1	159.9
77.5°	2992.9	2633.1	2170.8	1765.1	1393.6	1343.8	969.4	590.0	262.3	158.0	150.2
80°	2946.1	2628.2	2144.5	1653.9	1312.6	1095.2	821.1	486.6	198.0	134.6	146.3
82.5°	2855.4	2595.0	2041.1	1547.7	1210.2	957.7	695.3	340.3	152.1	122.9	147.3
85°	2726.7	2468.2	1919.2	1442.3	1119.5	865.0	592.9	239.9	119.0	117.0	152.1
87.5°	2638.9	2324.9	1784.6	1347.7	1013.2	721.7	453.5	182.4	104.3	119.0	157.0
90°	2514.1	2189.3	1645.2	1261.9	934.2	645.6	336.4	142.4	98.5	130.7	161.9
92.5°	2420.5	2065.5	1536.9	1156.6	891.3	586.1	263.3	120.0	101.4	145.3	161.9
95°	2296.6	1885.1	1405.3	1059.1	763.6	457.4	209.7	109.2	110.2	156.0	155.1
97.5°	2092.8	1687.1	1278.5	943.0	686.5	356.9	172.6	103.4	118.0	156.0	144.3
100°	1788.5	1462.8	1111.7	802.6	555.9	275.0	148.2	99.5	123.9	151.2	133.6
102.5°	1505.7	1262.9	937.2	660.2	395.0	216.5	131.7	97.5	120.9	137.5	123.9
105°	1276.5	1047.4	759.7	554.9	299.4	181.4	121.9	101.4	118.0	121.9	110.2
107.5°	1110.8	875.7	656.3	435.9	251.6	160.9	116.0	107.3	117.0	110.2	99.5
110°	961.6	747.0	588.0	354.0	216.5	150.2	115.1	113.1	113.1	103.4	91.7



REPORT NUMBER: P210685

CATALOG NUMBER: WPLLED-125-GL-UNV-7050

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
112.5°	857.2	638.8	466.1	295.5	200.9	143.4	120.9	119.0	109.2	95.6	84.8
115°	717.8	536.4	381.3	263.3	183.3	139.5	129.7	123.9	106.3	90.7	80.9
117.5°	592.9	447.6	331.6	233.1	170.7	138.5	138.5	123.9	101.4	85.8	75.1
120°	515.9	379.4	291.6	214.5	161.9	139.5	145.3	119.0	95.6	80.9	69.2
122.5°	434.0	336.4	260.4	200.9	158.0	145.3	148.2	111.2	88.7	77.0	64.4
125°	368.6	295.5	240.9	190.2	159.0	154.1	148.2	102.4	83.9	72.2	60.5
127.5°	316.9	259.4	214.5	182.4	160.9	162.9	144.3	92.6	78.0	66.3	56.6
130°	281.8	240.9	200.9	174.6	159.9	165.8	135.6	84.8	72.2	61.4	51.7
132.5°	260.4	225.3	198.9	174.6	165.8	161.9	121.9	77.0	65.3	56.6	48.8
135°	277.9	253.6	219.4	195.0	182.4	159.0	106.3	68.3	59.5	51.7	44.9
137.5°	238.9	217.5	193.1	181.4	173.6	142.4	89.7	60.5	53.6	46.8	41.0
140°	251.6	238.0	216.5	197.0	175.5	130.7	74.1	52.7	47.8	42.9	37.1
142.5°	255.5	228.2	205.8	188.2	159.0	112.1	60.5	46.8	42.9	39.0	34.1
145°	204.8	191.1	180.4	165.8	131.7	86.8	48.8	41.9	38.0	35.1	30.2
147.5°	188.2	176.5	167.7	145.3	109.2	67.3	40.0	36.1	34.1	31.2	27.3
150°	177.5	169.7	154.1	123.9	90.7	52.7	34.1	32.2	30.2	27.3	23.4
152.5°	164.8	152.1	130.7	98.5	66.3	40.0	28.3	27.3	26.3	24.4	20.5
155°	142.4	126.8	101.4	77.0	49.7	27.3	24.4	23.4	22.4	20.5	19.5
157.5°	115.1	96.5	80.0	54.6	35.1	20.5	19.5	19.5	19.5	18.5	17.6
160°	86.8	74.1	55.6	37.1	20.5	17.6	17.6	17.6	18.5	17.6	16.6
162.5°	66.3	50.7	36.1	20.5	15.6	15.6	15.6	16.6	16.6	16.6	15.6
165°	41.0	28.3	16.6	13.7	13.7	14.6	14.6	15.6	15.6	15.6	14.6
167.5°	17.6	11.7	10.7	11.7	12.7	13.7	13.7	14.6	14.6	14.6	14.6
170°	9.8	10.7	10.7	11.7	12.7	12.7	13.7	14.6	14.6	14.6	14.6
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: P210685
 CATALOG NUMBER: WPLLED-125-GL-UNV-7050

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8	2995.8
2.5°	2922.7	2882.7	2851.5	2810.5	2771.5	2741.3	2718.9	2707.2	2680.8	2673.0	2667.2
5°	2801.8	2744.2	2705.2	2676.0	2655.5	2640.9	2627.2	2614.5	2595.0	2565.8	2540.4
7.5°	2717.9	2679.9	2655.5	2619.4	2564.8	2499.5	2438.0	2384.4	2339.5	2304.4	2285.9
10°	2674.0	2638.9	2571.6	2468.2	2363.9	2303.4	2257.6	2201.0	2103.5	2024.5	1974.8
12.5°	2622.3	2536.5	2403.9	2306.4	2230.3	2102.5	1993.3	1911.4	1861.7	1787.6	1727.1
15°	2530.7	2378.5	2270.3	2143.5	1978.7	1879.2	1798.3	1698.8	1598.4	1521.3	1474.5
17.5°	2395.1	2264.4	2100.6	1916.3	1810.0	1669.6	1557.4	1476.5	1400.4	1316.5	1264.8
20°	2295.6	2132.8	1913.4	1771.0	1603.2	1478.4	1378.0	1286.3	1204.4	1135.1	1087.4
22.5°	2209.8	1982.6	1794.4	1607.1	1455.0	1316.5	1213.2	1118.6	1050.3	986.9	936.2
25°	2058.7	1848.0	1661.8	1476.5	1322.4	1180.0	1065.9	981.1	913.8	877.7	832.8
27.5°	1912.4	1712.5	1518.4	1343.8	1197.6	1051.3	955.7	886.5	826.0	763.6	728.5
30°	1752.4	1570.1	1382.8	1219.0	1063.0	951.8	866.0	802.6	748.0	701.2	668.0
32.5°	1596.4	1420.9	1259.0	1088.3	950.8	842.6	794.8	747.0	686.5	644.6	622.2
35°	1439.4	1284.3	1140.0	974.2	838.7	760.7	720.7	686.5	645.6	623.2	621.2
37.5°	1299.9	1175.1	1023.0	864.0	753.8	695.3	662.2	640.7	632.9	622.2	610.5
40°	1171.2	1059.1	885.5	777.2	702.1	653.4	617.3	588.0	585.1	561.7	526.6
42.5°	1053.2	911.8	802.6	726.5	649.5	596.8	541.2	513.9	498.3	480.8	434.0
45°	926.4	802.6	728.5	647.5	588.0	535.4	477.9	443.7	417.4	390.1	353.0
47.5°	818.2	712.9	617.3	554.9	537.3	474.9	421.3	370.6	363.8	333.5	330.6
50°	722.6	608.5	519.8	500.3	470.0	410.6	363.8	339.4	301.3	330.6	302.3
52.5°	639.7	512.0	454.4	451.5	402.8	350.1	313.0	282.8	302.3	303.3	282.8
55°	552.0	438.8	406.7	395.9	340.3	291.6	278.9	269.2	283.8	276.0	264.3
57.5°	456.4	385.2	374.5	341.3	282.8	263.3	265.3	275.0	250.6	241.9	224.3
60°	373.5	336.4	333.5	290.6	256.5	255.5	262.3	252.6	216.5	209.7	190.2
62.5°	307.2	295.5	285.7	245.8	232.1	253.6	254.5	219.4	188.2	174.6	160.9
65°	254.5	255.5	242.8	232.1	231.1	253.6	234.0	190.2	167.7	153.1	138.5
67.5°	218.4	226.2	216.5	223.3	234.0	235.0	204.8	171.6	148.2	130.7	113.1
70°	195.0	205.8	215.5	223.3	235.0	204.8	180.4	152.1	125.8	106.3	89.7
72.5°	183.3	205.8	219.4	222.3	210.6	180.4	153.1	126.8	101.4	82.9	70.2
75°	177.5	208.7	215.5	207.7	181.4	153.1	123.9	100.4	77.0	65.3	54.6
77.5°	180.4	206.7	200.9	183.3	152.1	121.9	97.5	75.1	61.4	43.9	29.3
80°	187.2	197.0	181.4	154.1	124.8	98.5	72.2	56.6	41.9	30.2	20.5
82.5°	182.4	181.4	160.9	128.7	104.3	79.0	62.4	49.7	38.0	27.3	18.5
85°	167.7	161.9	134.6	111.2	86.8	67.3	53.6	42.9	32.2	22.4	14.6
87.5°	158.0	142.4	118.0	96.5	75.1	59.5	48.8	38.0	28.3	19.5	13.7
90°	149.2	128.7	109.2	87.8	69.2	56.6	45.8	35.1	26.3	18.5	12.7
92.5°	143.4	120.0	101.4	79.0	64.4	52.7	42.9	32.2	23.4	16.6	11.7
95°	133.6	115.1	93.6	73.1	59.5	49.7	39.0	30.2	22.4	15.6	10.7
97.5°	122.9	108.2	83.9	67.3	56.6	46.8	36.1	28.3	20.5	14.6	9.8
100°	115.1	98.5	76.1	63.4	53.6	42.9	33.2	25.4	18.5	12.7	8.8
102.5°	108.2	89.7	70.2	59.5	49.7	39.0	29.3	22.4	16.6	11.7	7.8
105°	100.4	80.0	65.3	56.6	46.8	35.1	26.3	20.5	15.6	9.8	7.8
107.5°	89.7	72.2	60.5	52.7	42.9	31.2	24.4	18.5	13.7	9.8	7.8
110°	80.0	65.3	56.6	48.8	39.0	28.3	21.5	17.6	12.7	8.8	6.8

REPORT NUMBER: P210685
 CATALOG NUMBER: WPLLED-125-GL-UNV-7050

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	
112.5°	72.2	60.5	52.7	45.8	35.1	26.3	20.5	15.6	11.7	8.8	6.8	0°
115°	68.3	58.5	50.7	43.9	34.1	26.3	21.5	16.6	12.7	10.7	8.8	2.5°
117.5°	63.4	54.6	47.8	40.0	32.2	26.3	21.5	16.6	13.7	11.7	9.8	5°
120°	58.5	50.7	44.9	37.1	29.3	24.4	19.5	15.6	12.7	10.7	9.8	7.5°
122.5°	54.6	46.8	41.0	33.2	27.3	22.4	18.5	15.6	12.7	10.7	9.8	10°
125°	51.7	43.9	37.1	31.2	25.4	20.5	16.6	14.6	11.7	10.7	9.8	12.5°
127.5°	47.8	40.0	34.1	28.3	23.4	19.5	16.6	13.7	11.7	9.8	8.8	15°
130°	44.9	37.1	31.2	26.3	21.5	17.6	15.6	13.7	11.7	9.8	8.8	17.5°
132.5°	41.0	34.1	28.3	24.4	20.5	16.6	14.6	12.7	10.7	8.8	8.8	20°
135°	37.1	31.2	26.3	22.4	18.5	16.6	13.7	11.7	9.8	8.8	7.8	22.5°
137.5°	34.1	28.3	24.4	20.5	17.6	15.6	13.7	11.7	9.8	8.8	7.8	25°
140°	31.2	26.3	21.5	18.5	16.6	14.6	13.7	11.7	9.8	8.8	7.8	27.5°
142.5°	28.3	23.4	20.5	17.6	16.6	14.6	12.7	10.7	9.8	8.8	7.8	30°
145°	26.3	21.5	18.5	17.6	15.6	14.6	12.7	10.7	9.8	8.8	7.8	32.5°
147.5°	23.4	19.5	17.6	16.6	14.6	13.7	11.7	10.7	9.8	8.8	7.8	35°
150°	20.5	18.5	16.6	15.6	14.6	13.7	11.7	10.7	9.8	8.8	7.8	37.5°
152.5°	18.5	17.6	16.6	14.6	13.7	12.7	11.7	10.7	9.8	8.8	7.8	40°
155°	17.6	16.6	15.6	14.6	13.7	12.7	11.7	10.7	9.8	8.8	7.8	42.5°
157.5°	16.6	15.6	14.6	13.7	12.7	12.7	11.7	10.7	9.8	8.8	7.8	45°
160°	15.6	14.6	14.6	13.7	12.7	12.7	11.7	10.7	9.8	8.8	7.8	47.5°
162.5°	14.6	14.6	13.7	13.7	12.7	12.7	11.7	10.7	9.8	8.8	7.8	50°
165°	14.6	13.7	13.7	13.7	12.7	12.7	11.7	10.7	9.8	8.8	7.8	52.5°
167.5°	14.6	13.7	13.7	13.7	12.7	12.7	11.7	10.7	9.8	8.8	7.8	55°
170°	14.6	13.7	13.7	13.7	12.7	12.7	11.7	10.7	8.8	8.8	7.8	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°
												110°

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REPORT NUMBER: P
 CATALOG NUMBER:

DISTRIBUTION (continued):

160°	165°	170°	175°	180°
2995.8	2995.8	2995.8	2995.8	2995.8
2656.5	2655.5	2652.6	2653.5	2656.5
2530.7	2514.1	2508.2	2506.3	2508.2
2262.5	2252.7	2244.9	2239.1	2243.0
1929.0	1909.5	1900.7	1893.9	1894.8
1669.6	1630.5	1606.2	1590.6	1588.6
1431.6	1396.5	1374.1	1359.4	1356.5
1225.8	1185.9	1161.5	1147.8	1145.9
1058.1	1023.0	1005.4	989.8	987.9
904.0	879.6	867.0	852.3	852.3
787.0	745.1	724.6	715.8	717.8
698.2	685.6	677.8	669.0	671.9
642.7	631.0	618.3	612.4	617.3
611.5	603.7	609.5	597.8	602.7
611.5	625.1	615.4	601.7	596.8
579.3	570.5	579.3	567.6	565.6
519.8	474.9	445.7	426.2	422.3
387.2	393.0	368.6	363.8	362.8
335.5	326.7	305.2	299.4	296.5
304.3	285.7	273.1	269.2	267.2
277.9	269.2	287.7	287.7	284.8
273.1	258.4	251.6	247.7	242.8
235.0	222.3	197.0	188.2	185.3
198.0	170.7	158.0	152.1	150.2
159.9	144.3	137.5	135.6	133.6
142.4	126.8	120.9	120.0	118.0
120.9	106.3	101.4	101.4	101.4
97.5	84.8	81.9	81.9	80.9
76.1	70.2	69.2	70.2	69.2
61.4	57.5	55.6	54.6	52.7
43.9	38.0	35.1	32.2	31.2
15.6	10.7	9.8	10.7	10.7
13.7	10.7	10.7	10.7	10.7
12.7	10.7	10.7	10.7	10.7
9.8	8.8	8.8	8.8	8.8
8.8	7.8	7.8	7.8	7.8
8.8	7.8	7.8	7.8	7.8
8.8	7.8	7.8	7.8	7.8
7.8	7.8	6.8	6.8	6.8
7.8	6.8	6.8	6.8	6.8
6.8	6.8	5.9	5.9	5.9
6.8	5.9	4.9	4.9	4.9
6.8	5.9	4.9	4.9	4.9
5.9	4.9	3.9	3.9	3.9
5.9	4.9	3.9	2.9	2.9

CANDELA DISTRIBUTION:

	160°
112.5°	5.9
115°	7.8
117.5°	8.8
120°	8.8
122.5°	8.8
125°	7.8
127.5°	7.8
130°	7.8
132.5°	7.8
135°	6.8
137.5°	6.8
140°	6.8
142.5°	6.8
145°	6.8
147.5°	6.8
150°	6.8
152.5°	6.8
155°	6.8
157.5°	6.8
160°	6.8
162.5°	6.8
165°	6.8
167.5°	6.8
170°	5.9
172.5°	0.0
175°	0.0
177.5°	0.0
180°	0.0

'210685

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TION (continued):

165°	170°	175°	180°
4.9	3.9	2.0	2.0
5.9	4.9	3.9	4.9
6.8	4.9	4.9	5.9
6.8	4.9	4.9	4.9
6.8	4.9	4.9	4.9
6.8	4.9	3.9	3.9
5.9	4.9	2.9	3.9
5.9	3.9	2.9	2.9
5.9	3.9	2.9	2.0
4.9	3.9	2.0	2.0
4.9	3.9	2.0	2.0
4.9	2.9	2.0	2.0
4.9	2.9	2.0	1.0
4.9	2.9	2.0	1.0
4.9	2.9	2.0	1.0
4.9	2.9	2.0	1.0
4.9	2.9	2.0	1.0
4.9	2.9	2.0	1.0
4.9	2.9	2.0	1.0
4.9	2.9	2.0	1.0
4.9	2.9	2.0	0.0
4.9	2.9	2.0	0.0
3.9	2.9	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

(END OF REPORT)