

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: INVUE

Report Number: P152788

Luminaire Tested: **VWM-E03-LED-E1-SLL-8030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P152788  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VWM-E03-LED-E1-SLL-8030  
Description: VISION WALL MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (63) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 7045.1 lumens  
Efficiency: N/A  
Efficacy: 93.7 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Non-Cutoff  
BUG Rating: B1 - U0 - G3

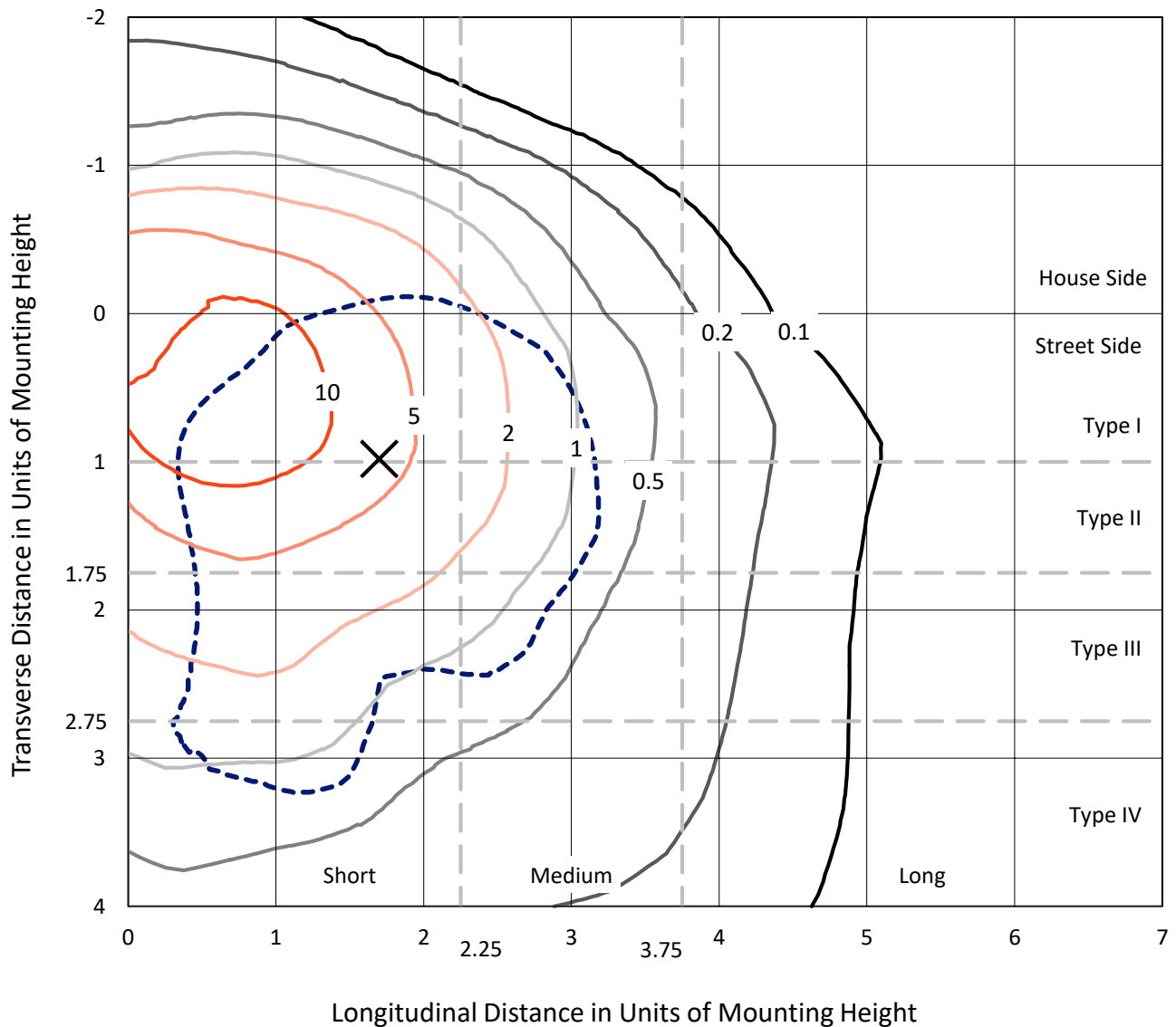
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

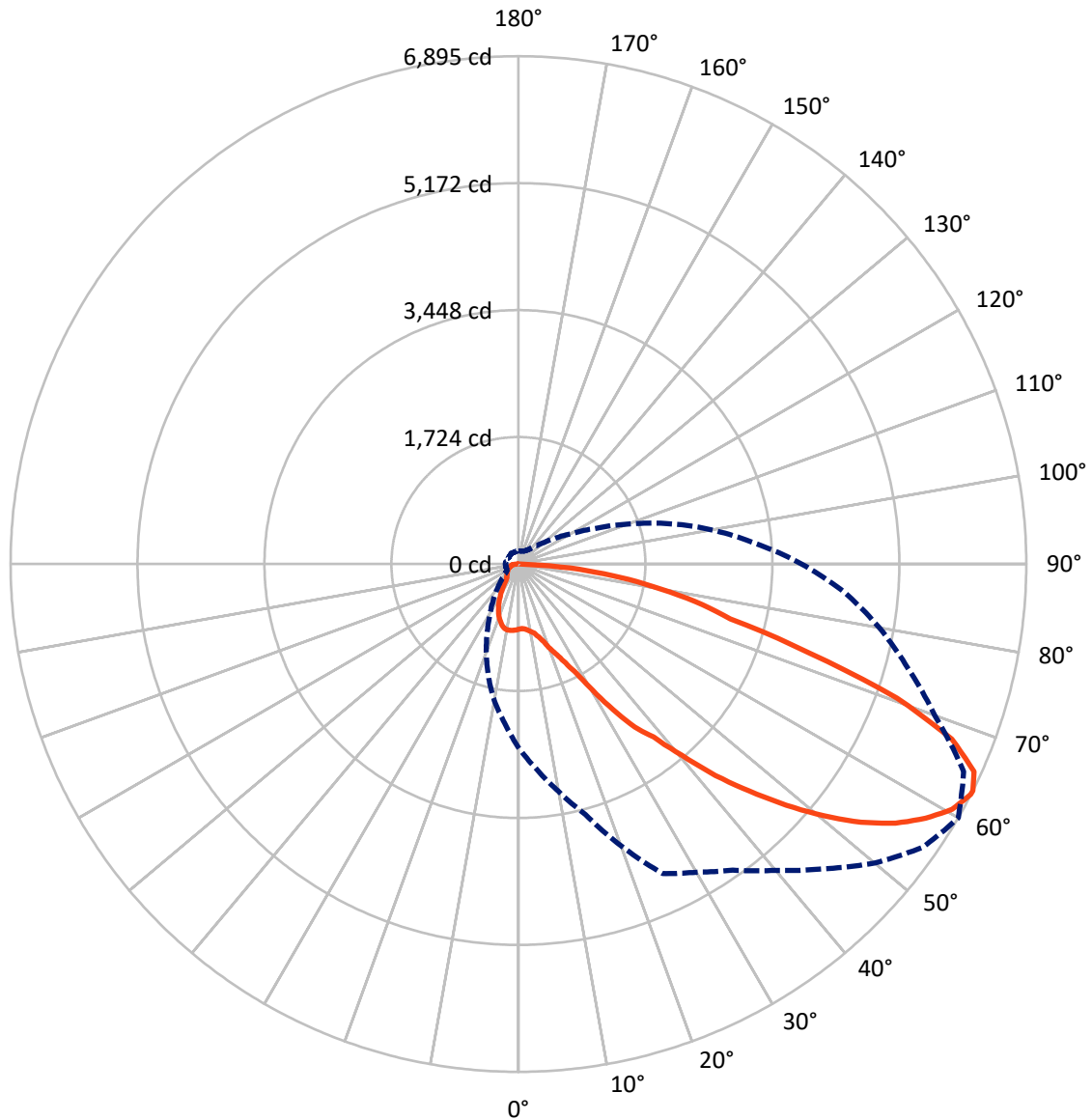
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.5 fc  
 Type IV - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	1527.7	0.0	1527.7
	% Fixture	21.7	0.0	21.7
<b>Street Side</b>	Lumens	5517.4	0.0	5517.4
	% Fixture	78.3	0.0	78.3
<b>Total</b>	Lumens	7045.1	0.0	7045.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	86.2	1.2
10°-20°	268.4	3.8
20°-30°	476.9	6.8
30°-40°	750.9	10.7
40°-50°	1105.1	15.7
50°-60°	1467.9	20.8
60°-70°	1616.9	23.0
70°-80°	1014.4	14.4
80°-90°	258.4	3.7
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	7045.1	100.0
0°-180°	7045.1	100.0



REPORT NUMBER: P152788

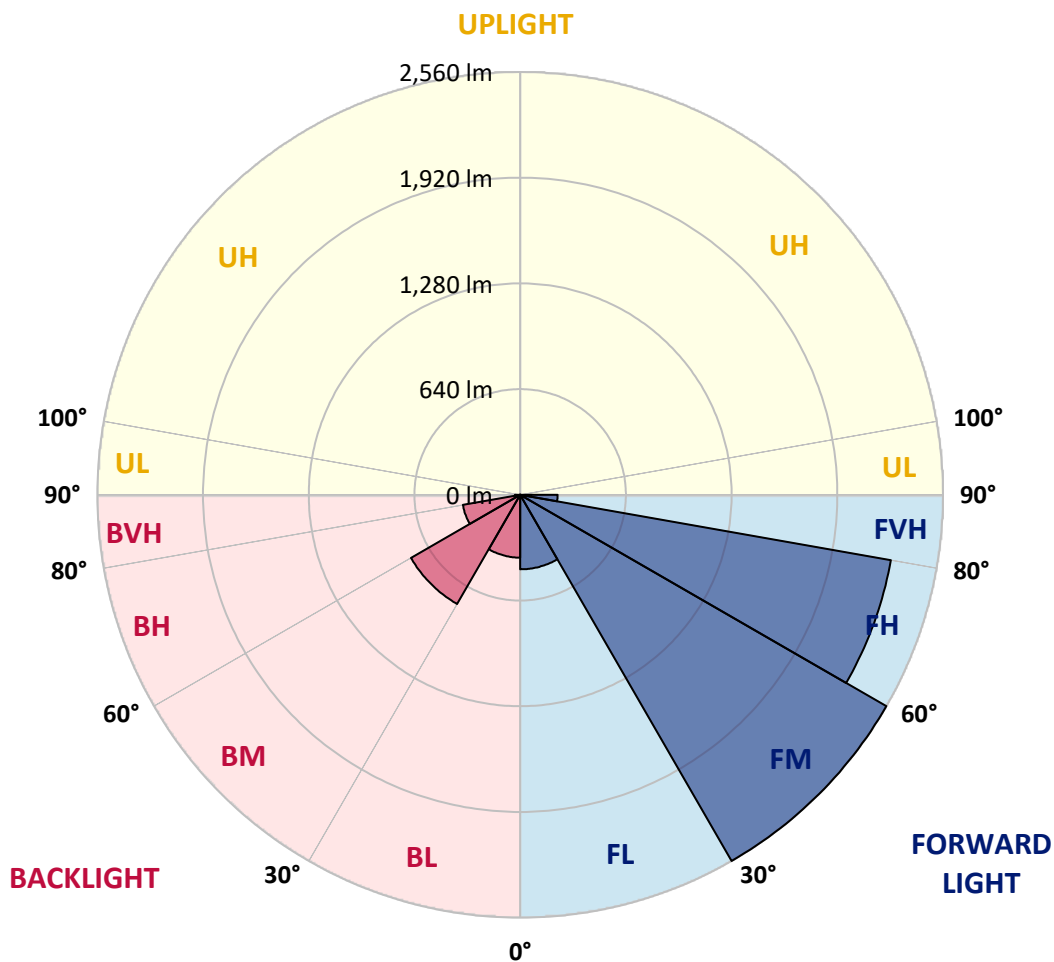
CATALOG NUMBER: VWM-E03-LED-E1-SLL-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	451.1	6.4			
FM	(30°-60°)	2560.4	36.3			
FH	(60°-80°)	2279.2	32.4			G2/5000
FVH	(80°-90°)	226.7	3.2			G3/500
BL	(0°-30°)	380.3	5.4	B1/500		
BM	(30°-60°)	763.6	10.8	B1/1000		
BH	(60°-80°)	352.1	5.0	B1/500		G1/500
BVH	(80°-90°)	31.6	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

**BUG Rating: B1-U0-G3**

Type IV Short





REPORT NUMBER: P152788

CATALOG NUMBER: VWM-E03-LED-E1-SLL-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3
2.5°	873.5	875.2	875.2	874.4	874.4	876.1	875.2	874.4	871.8	875.2	875.2
5°	866.8	868.5	868.5	870.2	871.8	873.5	873.5	875.2	874.4	877.8	880.3
7.5°	875.2	876.9	880.3	884.5	887.0	892.9	892.9	897.2	898.9	901.4	900.5
10°	886.2	890.4	898.0	904.8	909.8	916.6	921.6	927.5	927.5	930.1	931.8
12.5°	905.6	909.8	918.3	926.7	934.3	942.7	950.3	956.2	962.1	963.8	967.2
15°	937.7	942.7	955.4	967.2	976.5	987.5	997.6	1009.4	1020.4	1022.9	1024.6
17.5°	985.8	995.9	1005.2	1026.3	1039.8	1054.1	1070.2	1087.1	1090.4	1108.2	1112.4
20°	1054.1	1066.8	1075.2	1101.4	1124.2	1142.8	1166.4	1185.8	1193.4	1210.3	1227.2
22.5°	1172.3	1169.8	1182.4	1208.6	1225.5	1262.6	1282.9	1303.1	1313.2	1338.6	1352.1
25°	1331.0	1344.5	1372.3	1374.9	1390.9	1433.9	1460.1	1480.4	1481.2	1488.8	1503.1
27.5°	1487.1	1542.8	1586.7	1610.3	1653.4	1693.0	1691.4	1720.1	1675.3	1684.6	1698.1
30°	1676.2	1769.0	1851.7	1907.4	1951.3	1997.7	2020.5	2036.6	2017.1	2008.7	1992.7
32.5°	1853.4	1983.4	2110.8	2209.6	2291.4	2368.2	2418.9	2441.7	2468.7	2537.0	2561.5
35°	1974.9	2158.9	2317.6	2460.2	2597.0	2719.3	2808.0	2858.6	2839.2	2829.9	2824.8
37.5°	2047.5	2272.0	2470.4	2672.1	2829.1	3012.2	3149.8	3283.1	3313.5	3260.3	3234.2
40°	2093.1	2359.0	2613.8	2851.8	3055.2	3291.6	3462.1	3662.1	3814.0	3834.3	3771.8
42.5°	2115.0	2417.2	2714.3	2983.5	3258.6	3548.1	3764.2	4006.4	4233.5	4389.6	4350.8
45°	2118.4	2455.2	2787.7	3102.5	3430.0	3773.5	4052.0	4320.4	4624.2	4891.8	4899.4
47.5°	2118.4	2483.9	2838.3	3188.6	3583.6	3969.3	4273.1	4590.5	4962.7	5279.2	5376.2
50°	2120.1	2503.3	2885.6	3256.1	3700.9	4134.7	4478.2	4852.9	5244.6	5588.9	5776.3
52.5°	2127.7	2517.6	2922.7	3304.2	3776.9	4251.2	4637.7	5069.9	5459.8	5813.4	6055.6
55°	2144.6	2537.9	2949.7	3333.8	3827.5	4327.1	4753.4	5218.4	5599.0	5957.7	6296.2
57.5°	2191.8	2573.3	2982.7	3359.9	3855.4	4376.9	4834.4	5282.5	5652.2	6026.1	6423.6
60°	2286.4	2648.4	3039.2	3412.3	3901.8	4468.9	4873.2	5239.5	5613.4	6005.8	6452.3
62.5°	2437.4	2765.8	3117.7	3500.9	4034.3	4611.6	4843.7	5111.2	5460.6	5888.5	6350.2
63°	2489.8	2791.1	3135.4	3520.3	4070.6	4637.7	4831.0	5073.2	5429.4	5851.4	6313.9
65°	2635.8	2903.3	3219.8	3618.2	4220.0	4663.9	4732.3	4875.7	5213.3	5639.5	6099.5
67.5°	2908.4	3175.9	3401.3	3783.6	4345.7	4560.9	4425.9	4443.6	4796.4	5237.8	5651.4
70°	3080.6	3399.6	3516.9	3804.7	4322.9	4408.2	4029.2	3794.6	4077.3	4580.3	4942.4
72.5°	3035.8	3402.1	3389.5	3523.7	3867.2	3946.5	3554.0	3184.4	3352.3	3727.9	3962.5
75°	2600.3	3038.4	2945.5	2918.5	3039.2	3091.5	2797.0	2740.4	2952.3	3160.7	3164.1
77.5°	1872.0	2353.9	2245.0	2088.9	2080.4	2201.1	2240.8	2611.3	2924.4	3089.0	3016.4
80°	1192.6	1715.0	1601.9	1329.3	1325.1	1482.0	1830.6	2334.5	2666.2	2758.2	2569.1
82.5°	622.9	1122.5	1165.6	997.6	1141.9	1401.9	1742.0	1881.3	2007.0	2019.7	1796.9
85°	388.2	690.4	811.9	838.1	1031.4	1243.2	1240.7	1191.7	1136.0	972.3	879.4
87.5°	43.9	86.9	131.7	124.9	168.0	235.5	293.7	172.2	120.7	43.9	60.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P152788

CATALOG NUMBER: VWM-E03-LED-E1-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3
2.5°	876.9	877.8	878.6	878.6	882.8	882.0	882.8	884.5	887.0	888.7	890.4
5°	883.7	883.7	887.0	889.6	894.6	898.0	899.7	904.8	910.7	909.0	914.0
7.5°	905.6	904.8	908.1	909.8	914.0	920.0	919.1	923.3	928.4	930.1	934.3
10°	935.1	932.6	932.6	930.9	931.8	930.1	930.1	930.1	933.5	932.6	936.0
12.5°	965.5	964.7	963.0	957.9	957.9	951.2	947.8	943.6	942.7	936.8	937.7
15°	1028.0	1028.0	1024.6	1014.5	1006.0	1000.1	991.7	985.8	977.3	966.4	960.5
17.5°	1119.1	1107.3	1103.1	1101.4	1087.9	1082.8	1064.3	1044.9	1035.6	1020.4	1011.9
20°	1230.5	1228.0	1211.1	1202.7	1185.8	1162.2	1138.5	1113.2	1098.0	1079.5	1069.3
22.5°	1356.3	1337.7	1329.3	1316.6	1290.5	1263.5	1228.0	1194.2	1170.6	1158.0	1150.4
25°	1503.1	1484.6	1476.1	1459.3	1427.2	1398.5	1354.6	1314.9	1293.8	1272.7	1260.9
27.5°	1698.1	1680.4	1670.3	1626.4	1615.4	1568.1	1514.1	1460.1	1432.3	1401.0	1380.8
30°	1989.3	1990.1	1937.8	1884.6	1829.8	1747.9	1691.4	1630.6	1585.0	1540.3	1495.6
32.5°	2481.3	2355.6	2258.5	2144.6	2025.6	1938.6	1868.6	1796.0	1732.7	1667.7	1593.5
35°	2781.8	2721.0	2595.3	2386.8	2267.0	2161.5	2083.8	1996.0	1918.4	1803.6	1690.5
37.5°	3121.1	2980.1	2827.4	2711.7	2575.9	2453.5	2323.5	2223.9	2089.7	1935.3	1774.9
40°	3616.5	3414.8	3230.8	3075.5	2900.0	2771.7	2626.5	2482.2	2304.1	2080.4	1860.2
42.5°	4133.9	3925.4	3682.3	3480.6	3273.8	3123.6	2943.8	2741.3	2479.6	2202.8	1933.6
45°	4676.6	4398.0	4106.9	3860.4	3645.2	3458.7	3235.9	2967.5	2648.4	2312.5	2001.9
47.5°	5211.6	4891.8	4544.9	4279.9	3999.7	3771.8	3498.3	3159.1	2780.1	2416.3	2070.3
50°	5683.4	5375.4	4957.6	4620.9	4337.3	4056.2	3715.2	3306.8	2883.9	2505.8	2131.9
52.5°	6090.2	5825.2	5385.5	4960.1	4633.5	4317.9	3890.0	3425.8	2988.6	2588.5	2182.6
55°	6389.0	6212.6	5807.5	5280.0	4894.3	4517.9	4037.7	3540.5	3087.3	2654.4	2215.5
57.5°	6614.4	6516.5	6168.7	5581.3	5134.0	4712.0	4190.4	3678.1	3185.2	2710.9	2230.7
60°	6737.6	6764.6	6442.2	5844.6	5345.8	4874.0	4343.2	3795.4	3257.8	2743.8	2222.2
62.5°	6725.8	6891.2	6647.3	6006.7	5469.1	4970.3	4446.1	3850.3	3247.7	2691.5	2145.4
63°	6703.0	6895.4	6670.1	6017.7	5476.7	4973.6	4448.7	3842.7	3226.6	2666.2	2115.0
65°	6506.3	6798.3	6650.6	5967.9	5409.1	4910.3	4395.5	3733.0	3078.0	2530.3	1958.9
67.5°	5979.7	6345.1	6302.9	5615.9	5089.3	4648.7	4123.7	3379.3	2710.9	2196.1	1660.1
70°	5109.5	5453.0	5460.6	4884.2	4444.5	4012.3	3576.0	2749.7	2148.8	1702.3	1238.1
72.5°	3916.1	4137.2	4214.0	3834.3	3539.7	3235.9	2844.2	1996.0	1531.8	1158.0	806.0
75°	3032.5	2971.7	2970.8	2810.5	2690.6	2542.1	2111.7	1347.0	1006.0	752.8	492.9
77.5°	2726.1	2456.0	2194.4	2001.9	1905.7	1855.9	1385.0	811.9	593.3	433.0	283.6
80°	2248.4	1850.0	1494.7	1287.1	1204.4	1261.8	772.3	438.9	324.9	246.4	184.0
82.5°	1550.4	1287.1	978.2	810.2	695.4	727.5	395.0	224.5	150.2	137.6	113.9
85°	807.7	708.1	597.5	513.1	453.2	398.4	205.1	107.2	62.5	54.9	49.8
87.5°	0.0	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3
2.5°	892.9	892.1	893.8	894.6	897.2	898.9	899.7	898.0	900.5	903.1	901.4
5°	916.6	922.5	923.3	925.9	925.9	930.9	930.9	930.9	930.1	930.9	929.2
7.5°	936.8	944.4	945.3	948.6	949.5	955.4	952.9	954.6	954.6	950.3	948.6
10°	939.4	947.0	951.2	955.4	961.3	968.9	968.9	973.1	973.1	969.7	968.9
12.5°	940.2	946.1	950.3	956.2	964.7	975.7	981.6	987.5	990.0	989.2	986.6
15°	957.9	957.9	958.8	963.8	969.7	983.2	991.7	998.4	1002.7	1001.0	996.8
17.5°	1004.3	997.6	992.5	984.1	985.8	992.5	997.6	1003.5	1004.3	1002.7	995.9
20°	1058.4	1049.9	1037.3	1023.8	1017.0	1011.9	1008.6	1008.6	1006.0	997.6	986.6
22.5°	1135.2	1124.2	1106.5	1086.2	1072.7	1056.7	1037.3	1018.7	998.4	978.2	954.6
25°	1241.5	1226.3	1207.8	1176.5	1147.8	1114.1	1074.4	1033.0	984.9	942.7	908.1
27.5°	1348.7	1314.9	1266.8	1223.8	1170.6	1120.0	1063.4	1012.8	951.2	900.5	862.6
30°	1437.3	1373.2	1304.0	1235.6	1165.6	1097.2	1029.7	968.9	901.4	849.9	812.8
32.5°	1505.7	1417.1	1320.8	1231.4	1145.3	1061.7	984.1	916.6	848.2	795.0	755.4
35°	1569.0	1445.8	1323.4	1212.8	1106.5	1019.5	931.8	858.3	785.8	730.1	687.0
37.5°	1616.2	1459.3	1308.2	1178.2	1055.8	958.8	869.3	794.2	719.9	659.2	610.2
40°	1646.6	1450.8	1275.3	1128.4	995.9	893.8	802.6	725.0	653.2	586.6	527.5
42.5°	1671.1	1439.8	1242.4	1082.8	948.6	837.2	743.6	660.0	587.4	514.8	449.8
45°	1707.4	1448.3	1228.0	1050.8	906.4	789.1	686.2	599.2	523.3	452.4	389.9
47.5°	1742.8	1452.5	1206.9	1011.1	853.3	739.3	634.7	550.3	472.6	407.6	350.3
50°	1774.9	1450.0	1174.0	960.5	801.8	689.5	588.3	503.9	427.1	367.1	313.1
52.5°	1790.1	1435.6	1133.5	911.5	760.4	645.7	542.7	460.8	384.9	328.3	278.5
55°	1788.4	1398.5	1080.3	865.1	714.9	599.2	498.0	416.9	348.6	296.2	253.2
57.5°	1763.1	1341.1	1023.8	813.6	654.9	541.8	445.6	367.1	309.7	265.9	229.6
60°	1709.9	1267.7	949.5	738.5	579.8	470.9	380.6	313.1	266.7	232.9	209.3
62.5°	1610.3	1162.2	856.7	633.8	478.5	379.0	300.5	256.6	222.0	201.7	190.7
63°	1580.8	1133.5	817.0	608.5	454.9	357.9	283.6	238.0	212.7	195.0	184.8
65°	1433.9	992.5	683.6	491.2	353.6	276.0	227.9	193.3	178.1	170.5	169.6
67.5°	1161.3	780.7	483.6	336.8	240.5	199.2	174.7	160.4	153.6	151.9	153.6
70°	815.3	492.9	307.2	223.7	178.1	160.4	149.4	143.5	139.3	140.1	141.8
72.5°	519.9	295.4	211.0	169.6	150.2	140.9	135.9	134.2	133.4	132.5	132.5
75°	296.2	196.6	162.0	146.9	136.7	129.1	124.9	123.2	124.1	124.9	123.2
77.5°	195.8	162.0	144.3	134.2	124.9	116.5	113.9	113.1	114.8	116.5	116.5
80°	154.5	144.3	134.2	124.1	108.9	103.0	104.7	105.5	104.7	105.5	103.0
82.5°	108.9	107.2	109.7	105.5	90.3	85.2	83.6	84.4	82.7	82.7	81.0
85°	50.6	50.6	53.2	53.2	51.5	52.3	56.5	61.6	64.1	61.6	58.2
87.5°	0.0	0.0	0.0	0.0	0.0	7.6	15.2	21.9	23.6	29.5	28.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P152788

CATALOG NUMBER: VWM-E03-LED-E1-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3
2.5°	898.9	900.5	899.7	898.9	900.5	898.9	899.7	898.9	898.9	898.0	898.0
5°	927.5	930.1	925.0	924.2	922.5	918.3	918.3	916.6	916.6	913.2	910.7
7.5°	946.1	947.0	942.7	941.9	937.7	933.5	930.1	926.7	925.9	923.3	918.3
10°	963.8	962.1	958.8	954.6	950.3	944.4	940.2	936.0	935.1	930.9	925.0
12.5°	979.0	978.2	971.4	967.2	960.5	954.6	949.5	944.4	941.9	936.8	928.4
15°	989.2	984.1	975.7	968.1	960.5	953.7	947.8	941.9	939.4	933.5	925.0
17.5°	984.9	975.7	964.7	955.4	945.3	936.8	931.8	925.9	921.6	918.3	906.4
20°	969.7	956.2	939.4	928.4	914.9	903.9	900.5	894.6	891.3	878.6	863.4
22.5°	930.1	910.7	889.6	873.5	858.3	847.4	838.9	833.0	824.6	817.0	793.4
25°	880.3	858.3	836.4	817.0	796.7	779.8	764.7	750.3	746.1	730.1	707.3
27.5°	832.2	807.7	785.8	763.0	736.8	715.7	689.5	669.3	655.8	638.9	617.8
30°	780.7	756.2	726.7	696.3	665.9	643.1	613.6	589.1	572.2	554.5	535.1
32.5°	715.7	686.2	650.7	617.0	589.1	562.1	532.6	508.9	492.0	476.0	457.4
35°	641.4	602.6	564.6	527.5	498.0	475.2	449.0	431.3	419.5	405.1	385.7
37.5°	556.2	512.3	471.8	443.1	416.9	395.0	376.4	365.4	352.8	345.2	333.4
40°	470.1	427.1	387.4	361.2	339.3	326.6	316.5	314.0	305.5	295.4	287.8
42.5°	394.1	352.8	314.0	292.9	278.5	275.1	270.1	270.1	265.9	258.3	253.2
45°	342.7	299.6	265.9	250.7	243.1	242.2	239.7	239.7	238.8	235.5	229.6
47.5°	305.5	266.7	240.5	231.3	229.6	227.9	225.3	224.5	223.7	221.1	217.7
50°	271.8	238.8	222.0	217.7	218.6	216.1	213.5	211.0	210.2	207.6	204.2
52.5°	240.5	216.9	205.9	203.4	203.4	203.4	201.7	201.7	200.0	199.2	195.8
55°	222.8	205.1	199.2	198.3	197.5	196.6	195.0	195.0	193.3	192.4	188.2
57.5°	207.6	196.6	193.3	191.6	190.7	189.1	188.2	188.2	188.2	188.2	183.1
60°	195.8	190.7	189.9	188.2	187.4	184.0	182.3	181.5	182.3	183.1	178.1
62.5°	183.1	182.3	181.5	179.8	178.9	175.6	173.0	171.3	173.0	174.7	173.9
63°	179.8	178.9	178.9	178.1	177.2	173.0	170.5	168.8	170.5	172.2	172.2
65°	168.0	168.8	168.8	168.0	167.1	164.6	161.2	159.5	160.4	162.9	163.7
67.5°	155.3	156.1	155.3	156.1	155.3	153.6	151.1	149.4	148.5	149.4	150.2
70°	143.5	145.2	144.3	143.5	142.6	142.6	140.9	138.4	137.6	136.7	136.7
72.5°	133.4	133.4	131.7	131.7	130.8	130.8	129.1	126.6	125.8	125.8	124.1
75°	122.4	122.4	119.8	119.8	118.2	119.0	117.3	114.8	113.9	113.9	113.1
77.5°	115.6	113.1	108.9	108.0	107.2	107.2	106.3	103.8	103.0	103.0	102.1
80°	102.1	97.1	92.8	92.0	92.8	94.5	94.5	92.8	92.8	92.8	92.8
82.5°	79.3	77.6	75.1	73.4	73.4	76.0	79.3	81.0	82.7	84.4	84.4
85°	58.2	59.1	58.2	55.7	54.9	57.4	60.8	64.1	65.0	68.4	67.5
87.5°	31.2	32.1	29.5	28.7	31.2	32.9	36.3	37.1	38.8	39.7	40.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P152788

CATALOG NUMBER: VWM-E03-LED-E1-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3
2.5°	897.2	896.3	897.2	895.5	895.5	893.8	892.1	891.3	889.6	888.7	887.0
5°	912.4	909.8	907.3	906.4	903.1	899.7	897.2	892.9	889.6	883.7	882.0
7.5°	922.5	916.6	913.2	912.4	907.3	904.8	898.9	893.8	888.7	881.1	878.6
10°	926.7	920.8	914.9	912.4	906.4	902.2	896.3	888.7	884.5	876.9	875.2
12.5°	931.8	920.8	911.5	904.8	896.3	887.0	881.1	876.9	871.0	866.8	865.1
15°	922.5	908.1	893.8	881.1	867.6	857.5	851.6	844.8	838.1	835.6	835.6
17.5°	897.2	878.6	854.1	838.1	823.7	812.8	805.2	798.4	797.6	794.2	795.9
20°	844.8	820.4	796.7	784.9	776.5	769.7	762.1	758.7	756.2	751.2	749.5
22.5°	772.3	752.0	735.1	726.7	719.9	711.5	704.7	694.6	692.1	687.0	684.5
25°	692.1	676.0	661.7	655.8	651.6	639.7	635.5	622.0	612.7	606.8	610.2
27.5°	611.9	600.1	586.6	579.0	576.4	565.5	561.3	546.1	538.5	538.5	530.0
30°	529.2	518.2	509.8	501.3	499.6	486.1	475.2	469.3	460.8	457.4	451.5
32.5°	451.5	440.6	433.8	429.6	422.8	411.9	400.9	390.8	377.3	372.2	369.7
35°	379.8	371.4	362.9	359.5	350.3	338.4	324.9	316.5	300.5	294.6	292.0
37.5°	324.9	314.8	308.9	299.6	290.3	277.7	267.5	259.9	254.0	251.5	251.5
40°	281.0	273.5	266.7	259.1	251.5	244.8	239.7	238.0	237.2	237.2	238.8
42.5°	248.1	241.4	238.0	233.8	231.3	231.3	230.4	231.3	232.1	232.9	235.5
45°	226.2	222.0	220.3	219.4	221.1	222.8	223.7	225.3	228.7	230.4	231.3
47.5°	214.4	211.0	210.2	211.0	213.5	216.9	220.3	222.8	225.3	226.2	227.0
50°	202.6	198.3	196.6	198.3	201.7	206.8	209.3	213.5	215.2	216.9	215.2
52.5°	192.4	189.1	188.2	188.2	191.6	195.0	198.3	201.7	202.6	202.6	201.7
55°	184.0	181.5	178.9	180.6	183.1	186.5	191.6	194.1	195.8	196.6	196.6
57.5°	177.2	174.7	172.2	173.9	176.4	179.8	184.8	187.4	189.1	191.6	192.4
60°	172.2	168.8	166.3	168.8	171.3	176.4	180.6	183.1	187.4	188.2	188.2
62.5°	167.1	163.7	159.5	162.0	162.0	164.6	168.8	172.2	176.4	178.1	178.1
63°	166.3	162.9	158.7	160.4	160.4	162.0	165.4	168.8	173.9	175.6	174.7
65°	159.5	158.7	154.5	154.5	152.8	154.5	157.0	160.4	162.9	165.4	165.4
67.5°	148.5	147.7	146.9	146.9	146.9	148.5	150.2	152.8	155.3	157.0	156.1
70°	135.9	135.9	135.9	136.7	136.7	138.4	139.3	138.4	140.9	142.6	141.8
72.5°	124.9	124.1	123.2	124.9	124.1	124.1	125.8	124.9	127.4	127.4	128.3
75°	113.1	112.3	112.3	113.1	111.4	109.7	110.6	110.6	111.4	111.4	113.1
77.5°	103.0	103.0	103.0	102.1	100.4	99.6	98.7	98.7	98.7	98.7	99.6
80°	93.7	93.7	93.7	92.8	91.2	89.5	87.8	86.9	86.1	81.9	81.9
82.5°	84.4	84.4	84.4	84.4	83.6	81.9	79.3	72.6	69.2	65.8	66.7
85°	66.7	68.4	70.1	72.6	71.7	71.7	66.7	58.2	53.2	49.8	50.6
87.5°	43.0	38.0	38.0	37.1	35.4	33.8	33.8	28.7	23.6	21.1	21.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P152788  
 CATALOG NUMBER: VWM-E03-LED-E1-SLL-8030

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	885.3	0°
2.5°	887.0	885.3	883.7	883.7	881.1	881.1	879.4	882.8	879.4	876.9	876.9	2.5°
5°	880.3	878.6	873.5	872.7	869.3	869.3	869.3	867.6	867.6	865.9	865.1	5°
7.5°	876.1	871.8	867.6	865.1	865.1	863.4	866.8	865.1	865.9	865.9	866.8	7.5°
10°	872.7	869.3	867.6	866.8	866.8	869.3	871.8	872.7	871.8	872.7	872.7	10°
12.5°	864.2	865.9	866.8	870.2	874.4	879.4	885.3	886.2	887.9	887.9	889.6	12.5°
15°	837.2	841.5	846.5	855.0	865.9	876.9	887.9	897.2	905.6	909.8	913.2	15°
17.5°	799.3	803.5	812.8	822.0	836.4	852.4	871.0	887.0	904.8	920.8	936.8	17.5°
20°	747.8	754.5	757.1	773.9	790.8	812.8	834.7	860.0	890.4	920.8	952.0	20°
22.5°	681.1	688.7	700.5	714.0	731.7	758.7	784.9	824.6	865.1	908.1	957.1	22.5°
25°	606.8	615.3	625.4	639.7	657.5	686.2	724.1	766.3	816.1	872.7	933.5	25°
27.5°	530.0	538.5	546.9	557.0	577.3	607.7	652.4	696.3	751.2	812.8	883.7	27.5°
30°	453.2	454.1	459.1	471.8	492.9	532.6	565.5	620.3	677.7	742.7	824.6	30°
32.5°	368.8	368.0	373.9	384.9	405.1	443.1	483.6	536.8	593.3	675.2	759.6	32.5°
35°	293.7	293.7	304.7	315.7	338.4	365.4	400.9	448.2	514.8	590.8	675.2	35°
37.5°	254.0	259.9	266.7	277.7	295.4	316.5	347.7	389.1	441.4	514.0	591.6	37.5°
40°	241.4	244.8	250.7	260.8	276.0	295.4	318.2	349.4	389.9	448.2	519.1	40°
42.5°	236.3	237.2	240.5	248.1	261.6	281.0	304.7	332.5	362.9	404.3	465.9	42.5°
45°	231.3	230.4	232.1	238.0	249.0	270.9	297.9	328.3	358.7	393.3	443.9	45°
47.5°	227.0	227.0	227.0	229.6	239.7	261.6	292.9	328.3	364.6	403.4	453.2	47.5°
50°	215.2	214.4	214.4	216.1	223.7	247.3	284.4	327.5	374.7	425.4	481.9	50°
52.5°	201.7	201.7	202.6	203.4	210.2	233.8	275.1	327.5	386.5	454.1	525.0	52.5°
55°	197.5	198.3	199.2	198.3	203.4	223.7	265.0	322.4	391.6	476.9	571.4	55°
57.5°	194.1	195.8	195.8	195.0	198.3	215.2	254.9	312.3	387.4	485.3	604.3	57.5°
60°	189.1	189.1	189.1	186.5	188.2	203.4	239.7	296.2	373.9	477.7	609.4	60°
62.5°	178.1	178.1	176.4	175.6	174.7	186.5	219.4	272.6	349.4	457.4	596.7	62.5°
63°	175.6	174.7	174.7	172.2	172.2	183.1	215.2	269.2	342.7	452.4	591.6	63°
65°	166.3	166.3	166.3	164.6	163.7	172.2	198.3	245.6	316.5	428.7	566.3	65°
67.5°	156.1	157.0	155.3	154.5	153.6	158.7	178.9	216.1	276.0	379.0	519.1	67.5°
70°	141.8	142.6	142.6	141.8	140.9	144.3	157.0	185.7	228.7	315.7	442.3	70°
72.5°	129.1	130.8	130.8	132.5	132.5	135.0	140.1	154.5	183.1	246.4	347.7	72.5°
75°	115.6	116.5	118.2	119.8	118.2	117.3	118.2	129.1	143.5	182.3	248.1	75°
77.5°	103.8	106.3	106.3	105.5	103.0	101.3	101.3	106.3	118.2	138.4	177.2	77.5°
80°	86.1	90.3	91.2	88.6	86.1	86.1	87.8	91.2	98.7	113.9	134.2	80°
82.5°	69.2	73.4	74.3	75.1	74.3	76.8	76.8	77.6	81.9	93.7	109.7	82.5°
85°	53.2	56.5	59.1	59.9	60.8	61.6	60.8	56.5	59.1	66.7	74.3	85°
87.5°	23.6	24.5	22.8	23.6	22.8	23.6	24.5	20.3	19.4	26.2	27.0	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



NUMBER: P152788

NUMBER: VWM-E03-LED-E1-SLL-8030

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
885.3	885.3	885.3	885.3	885.3	885.3	885.3
876.1	876.1	876.9	875.2	875.2	876.1	873.5
862.6	865.9	865.9	865.9	864.2	865.9	866.8
865.9	868.5	870.2	870.2	869.3	872.7	875.2
870.2	874.4	876.1	876.1	876.1	880.3	886.2
886.2	889.6	892.1	892.1	893.8	898.9	905.6
915.7	920.0	920.0	919.1	924.2	930.1	937.7
948.6	960.5	966.4	965.5	969.7	977.3	985.8
979.9	1012.8	1027.1	1037.3	1041.5	1051.6	1054.1
1006.0	1060.9	1100.6	1134.3	1150.4	1160.5	1172.3
996.8	1071.0	1141.9	1211.1	1260.1	1309.9	1331.0
958.8	1051.6	1144.5	1245.7	1334.3	1423.0	1487.1
912.4	1023.8	1148.7	1292.2	1432.3	1568.1	1676.2
859.2	997.6	1158.0	1335.2	1519.2	1697.3	1853.4
792.5	947.8	1135.2	1339.4	1556.3	1772.4	1974.9
708.1	880.3	1082.0	1309.0	1558.0	1805.3	2047.5
623.7	795.0	1014.5	1265.1	1536.1	1812.9	2093.1
564.6	719.1	946.1	1209.4	1500.6	1801.1	2115.0
524.1	664.2	885.3	1158.8	1462.6	1780.0	2118.4
520.7	640.6	845.7	1121.7	1432.3	1761.4	2118.4
549.4	653.2	832.2	1103.1	1419.6	1755.5	2120.1
603.5	703.9	856.7	1117.4	1429.7	1763.1	2127.7
668.4	780.7	922.5	1167.2	1472.8	1788.4	2144.6
727.5	869.3	1034.7	1263.5	1551.3	1852.6	2191.8
762.1	945.3	1153.7	1398.5	1685.4	1980.0	2286.4
766.3	987.5	1259.2	1545.3	1848.3	2126.0	2437.4
763.0	990.8	1272.7	1573.2	1882.9	2162.3	2489.8
744.4	991.7	1310.7	1671.1	2002.8	2315.1	2635.8
697.1	964.7	1324.2	1747.9	2153.9	2515.9	2908.4
615.3	887.9	1284.6	1749.6	2212.1	2628.2	3080.6
494.6	741.9	1113.2	1591.8	2058.5	2517.6	3035.8
362.1	545.2	841.5	1233.1	1679.5	2095.6	2600.3
240.5	352.8	567.2	878.6	1204.4	1508.2	1872.0
165.4	218.6	331.7	528.3	736.8	884.5	1192.6
121.5	144.3	184.0	270.1	354.5	436.3	622.9
76.0	82.7	92.0	133.4	190.7	257.4	388.2
20.3	21.1	19.4	26.2	41.4	39.7	43.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)