

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: McGRAW-EDISON

Report Number: P145926

Luminaire Tested: **VPL-F03-LED-E1-CPL-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P145926  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33704)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: VPL-F03-LED-E1-CPL-7050  
Description: VALET LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER LEFT  
Light Source: (21) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6844.6 lumens  
Efficiency: N/A  
Efficacy: 87.4 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

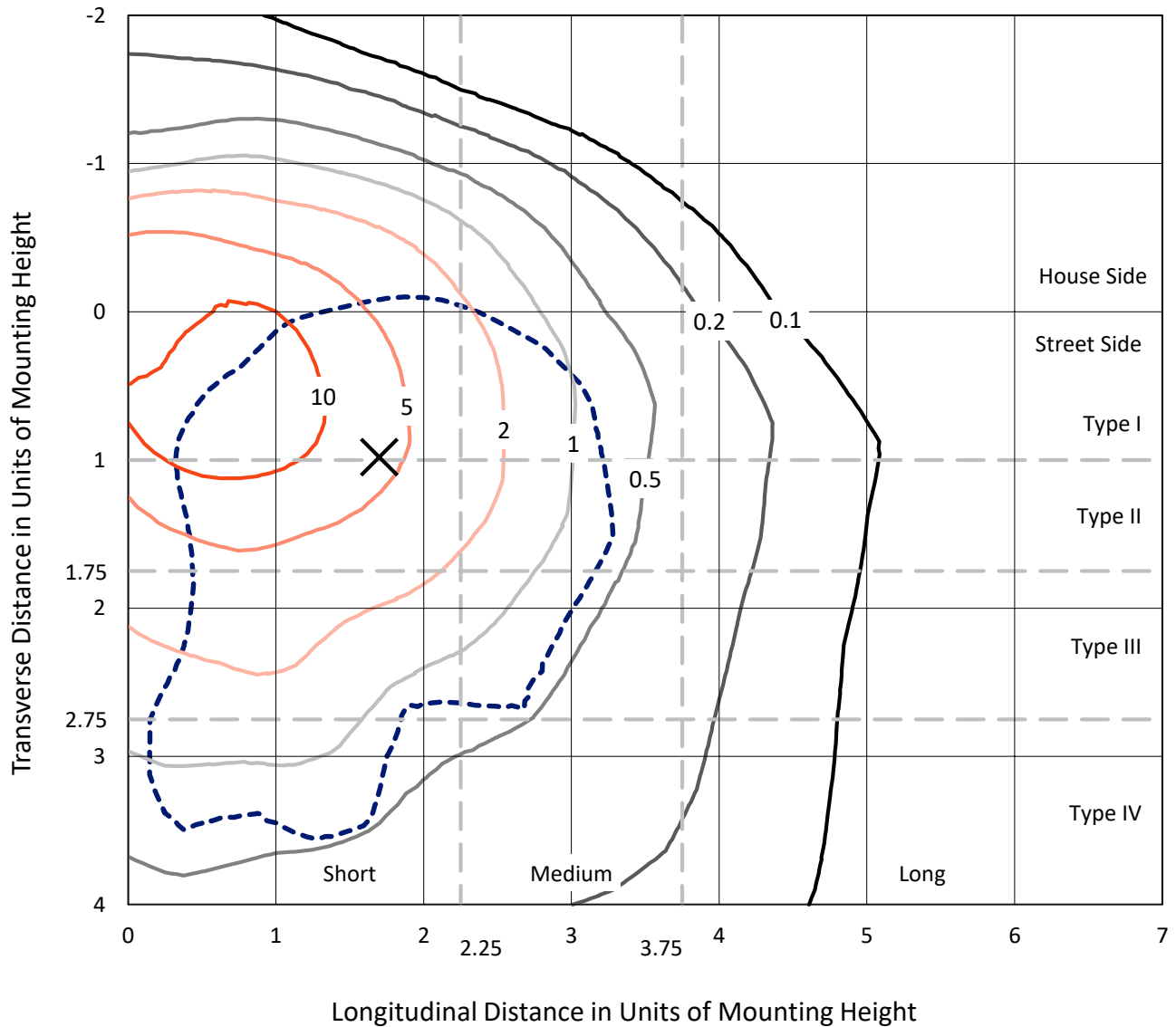
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

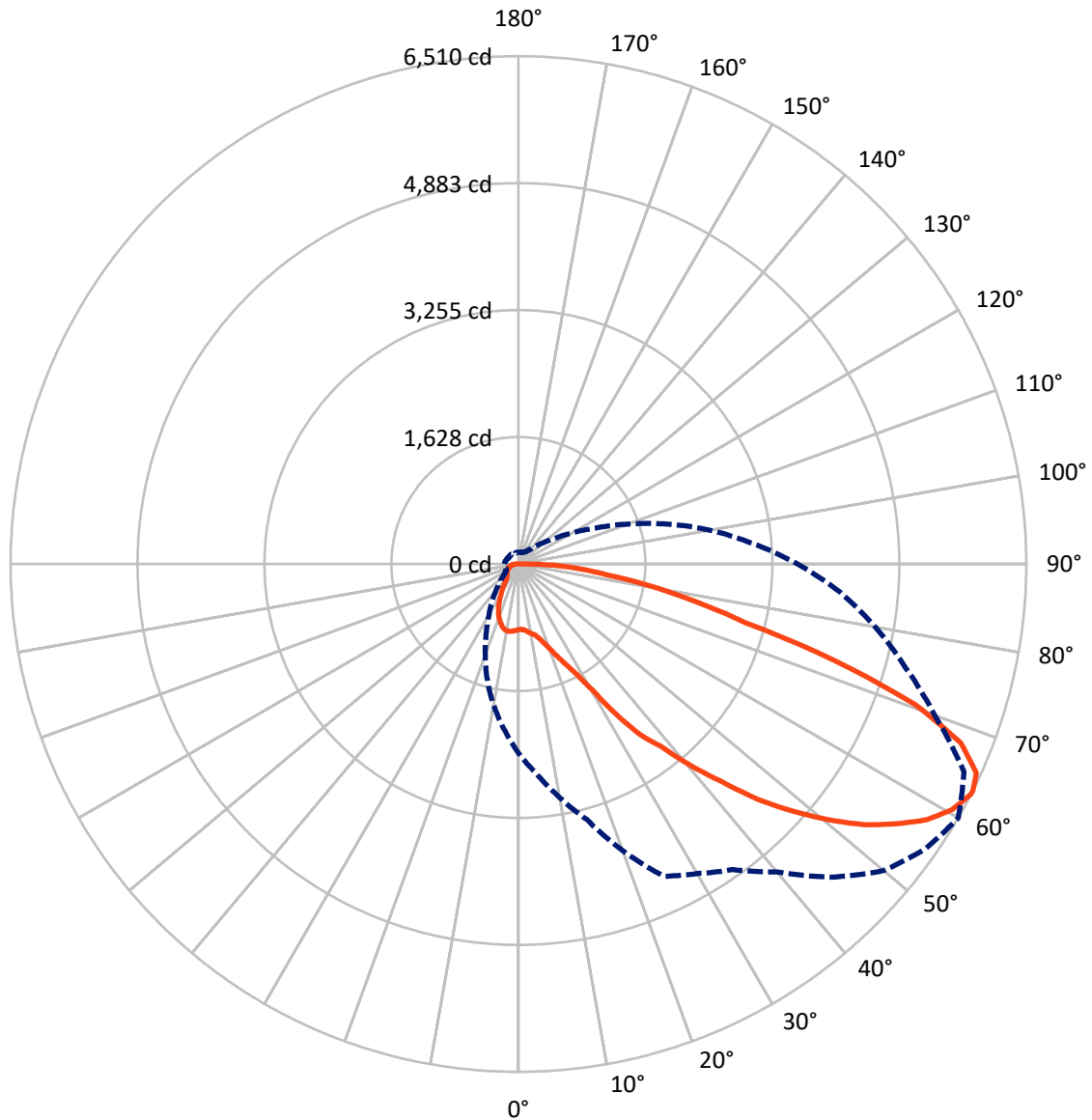
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 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	1432.8	0.0	1432.8
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	5411.9	0.0	5411.9
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	6844.6	0.0	6844.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	1.2
10°-20°	257.7	3.8
20°-30°	455.7	6.7
30°-40°	719.4	10.5
40°-50°	1057.9	15.5
50°-60°	1393.5	20.4
60°-70°	1553.2	22.7
70°-80°	1020.5	14.9
80°-90°	304.3	4.4
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°	6844.6	100.0
0°-180°	6844.6	100.0



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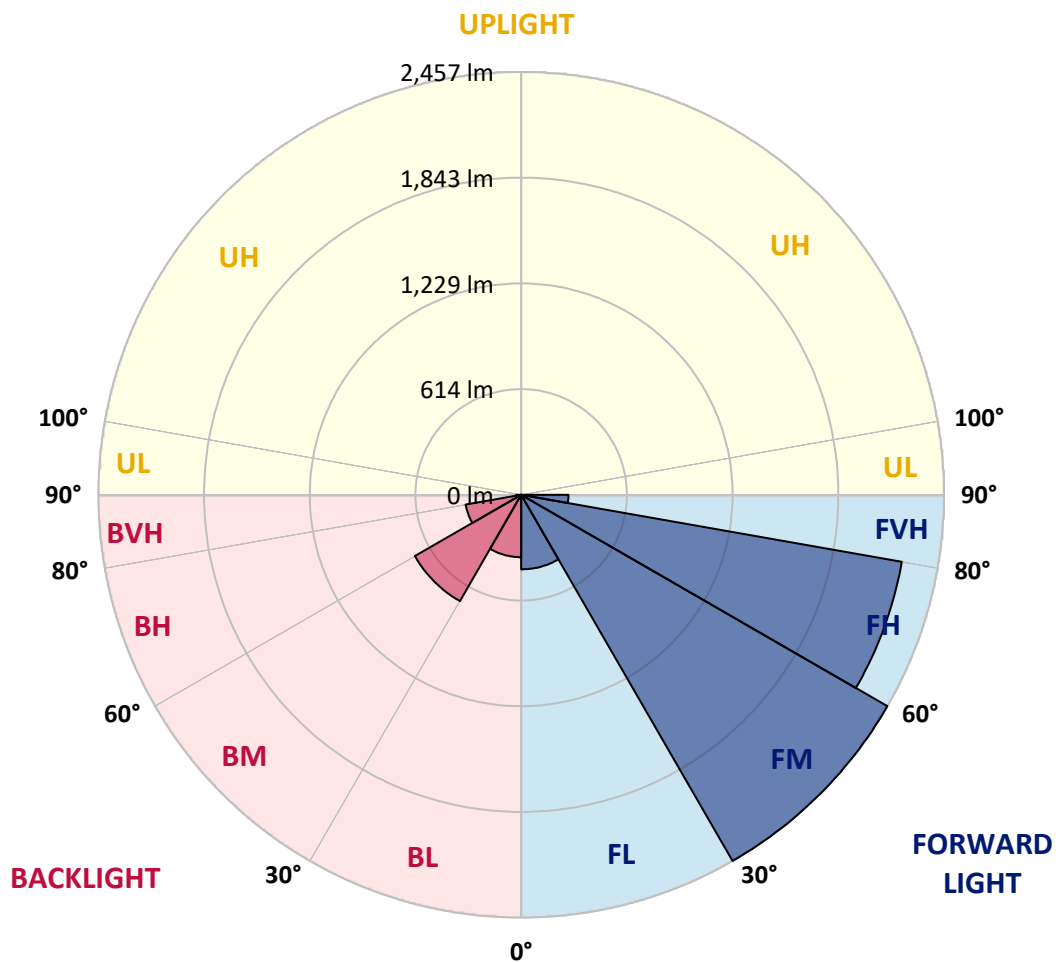
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.2	6.3			
FM	(30°-60°)	2457.4	35.9			
FH	(60°-80°)	2246.2	32.8			G2/5000
FVH	(80°-90°)	275.0	4.0			G3/500
BL	(0°-30°)	362.7	5.3	B1/500		
BM	(30°-60°)	713.3	10.4	B1/1000		
BH	(60°-80°)	327.5	4.8	B1/500		G1/500
BVH	(80°-90°)	29.3	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	839.6	840.1	838.6	838.1	837.1	837.6	837.6	836.6	836.6	837.1	835.6
5°	835.6	836.6	836.1	837.1	838.1	839.6	841.1	842.7	844.2	846.2	846.7
7.5°	831.0	834.0	834.5	837.6	841.1	845.2	850.3	855.9	863.5	865.5	870.1
10°	833.5	839.1	842.2	848.3	853.9	861.5	870.6	876.2	885.9	889.4	896.0
12.5°	853.3	857.4	861.5	868.6	876.7	886.4	896.5	905.2	915.3	918.9	921.4
15°	891.0	895.0	899.6	906.7	915.3	927.0	941.8	952.5	964.6	973.8	980.4
17.5°	943.3	943.3	954.0	956.0	972.8	990.6	1008.9	1029.7	1042.4	1050.0	1062.2
20°	1018.5	1018.5	1032.8	1039.4	1053.6	1076.5	1101.4	1124.2	1142.5	1157.8	1169.0
22.5°	1148.6	1143.0	1155.2	1153.7	1171.0	1205.0	1229.4	1242.2	1266.5	1275.7	1290.4
25°	1299.6	1319.4	1332.6	1332.6	1339.7	1374.8	1395.1	1404.8	1427.2	1420.5	1435.8
27.5°	1484.6	1538.0	1587.3	1607.6	1597.9	1636.6	1643.7	1652.8	1650.3	1634.5	1629.9
30°	1666.5	1760.6	1837.3	1884.1	1937.9	2012.7	2012.7	2024.8	1998.4	1954.7	1928.8
32.5°	1792.6	1913.5	2030.9	2128.0	2219.5	2333.9	2382.1	2449.2	2460.4	2477.2	2419.2
35°	1896.3	2066.0	2192.1	2337.9	2449.7	2565.6	2694.2	2810.6	2887.9	2875.1	2852.3
37.5°	1967.4	2185.5	2361.3	2532.6	2702.8	2835.5	2957.5	3109.4	3257.3	3286.8	3224.8
40°	2017.2	2269.8	2511.7	2722.2	2936.1	3135.4	3283.8	3446.9	3678.7	3776.8	3725.9
42.5°	2041.1	2335.9	2605.8	2873.6	3144.5	3396.1	3582.1	3805.7	4080.7	4248.4	4192.5
45°	2051.3	2376.6	2682.0	2987.0	3312.2	3622.8	3862.7	4116.3	4425.8	4695.2	4705.3
47.5°	2048.7	2398.4	2734.4	3067.8	3443.9	3805.2	4127.0	4414.6	4765.3	5048.4	5153.6
50°	2041.6	2406.0	2765.9	3116.6	3526.7	3938.9	4301.3	4643.3	5035.2	5393.5	5553.6
52.5°	2041.1	2407.6	2781.6	3143.5	3575.5	4020.7	4410.6	4814.6	5244.1	5618.7	5868.2
55°	2053.3	2416.7	2798.9	3162.3	3601.9	4067.0	4472.1	4921.8	5335.1	5760.5	6082.7
57.5°	2102.6	2459.4	2840.1	3194.3	3631.4	4103.6	4519.8	4952.9	5362.0	5819.4	6207.2
60°	2210.9	2539.2	2911.7	3253.3	3708.2	4199.6	4565.1	4909.1	5311.2	5802.6	6225.0
62.5°	2379.6	2667.3	3011.9	3362.0	3864.2	4382.1	4583.9	4809.0	5185.6	5706.1	6148.2
63°	2422.8	2701.3	3038.3	3392.0	3909.4	4416.7	4582.3	4782.6	5151.1	5677.6	6113.7
65°	2603.2	2858.9	3161.3	3535.4	4115.3	4526.4	4526.9	4627.1	4974.7	5520.6	5971.9
67.5°	2874.6	3118.6	3352.4	3724.4	4343.0	4581.3	4362.8	4287.0	4594.5	5188.2	5612.0
70°	3055.6	3357.0	3488.1	3774.2	4374.0	4514.7	4103.1	3850.5	4105.6	4601.7	4978.3
72.5°	3060.1	3403.7	3441.8	3561.8	4083.8	4196.6	3655.8	3313.8	3467.2	3883.5	4081.7
75°	2733.3	3165.4	3087.1	3042.9	3325.4	3373.7	2957.0	2814.7	3011.4	3257.3	3158.2
77.5°	2032.0	2606.3	2447.2	2259.2	2361.8	2368.9	2382.1	2650.5	2891.9	2992.5	2848.2
80°	1261.0	1914.6	1792.6	1482.6	1522.2	1639.1	1989.8	2464.0	2728.3	2800.4	2511.7
82.5°	760.3	1408.3	1343.3	1131.4	1181.2	1472.4	1860.2	1991.3	2080.2	2073.6	1775.3
85°	557.0	956.5	1045.0	1060.7	1237.6	1429.7	1421.6	1324.5	1270.1	1117.6	954.0
87.5°	175.3	493.5	585.5	682.6	747.6	707.5	695.8	601.3	430.5	363.9	400.0
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	835.6	837.6	838.6	838.1	838.6	838.6	841.7	840.6	841.7	841.1	844.2
5°	848.3	851.3	853.9	853.9	854.4	855.4	859.4	859.4	861.5	865.5	867.6
7.5°	873.2	877.2	877.7	878.8	881.8	880.3	882.8	883.8	885.4	887.4	889.9
10°	899.1	904.7	904.7	904.2	904.7	900.6	902.1	899.1	899.6	902.6	905.7
12.5°	928.1	931.1	929.1	927.5	927.5	919.9	918.9	914.8	912.8	913.3	914.3
15°	986.0	983.5	982.9	980.4	971.3	965.7	961.6	948.9	942.3	938.7	932.6
17.5°	1063.2	1064.8	1062.2	1059.7	1046.5	1027.7	1019.5	1005.8	996.7	987.5	976.3
20°	1176.1	1165.9	1164.9	1156.8	1138.5	1112.0	1092.2	1069.9	1057.2	1043.9	1032.2
22.5°	1300.6	1289.9	1282.8	1267.1	1240.1	1206.6	1173.5	1145.1	1125.8	1116.1	1108.0
25°	1438.8	1432.7	1421.1	1380.9	1359.6	1320.9	1284.8	1256.9	1235.0	1226.9	1212.7
27.5°	1604.5	1609.1	1587.3	1549.6	1522.7	1468.3	1437.3	1389.0	1370.7	1341.3	1323.0
30°	1906.4	1877.0	1839.8	1782.4	1728.0	1654.8	1603.5	1553.2	1526.3	1486.6	1437.8
32.5°	2399.9	2287.6	2188.0	2066.0	1950.6	1857.1	1782.9	1719.4	1678.2	1612.7	1529.8
35°	2797.9	2689.6	2525.0	2347.6	2196.1	2076.2	1982.7	1922.7	1840.4	1735.7	1615.7
37.5°	3089.6	2965.1	2811.1	2675.4	2510.2	2376.6	2250.0	2125.5	2009.6	1851.0	1698.0
40°	3563.3	3394.6	3141.0	2980.9	2845.7	2664.7	2546.3	2378.6	2202.2	1997.9	1776.3
42.5°	4031.9	3808.3	3578.6	3394.6	3202.5	3006.3	2843.6	2618.5	2384.2	2119.4	1846.5
45°	4576.2	4302.3	4001.9	3744.8	3547.6	3316.8	3108.4	2831.9	2533.1	2219.0	1907.4
47.5°	5005.2	4733.8	4394.8	4135.6	3869.8	3609.6	3339.2	2998.1	2643.9	2300.3	1964.4
50°	5416.4	5154.6	4794.3	4476.1	4170.7	3856.6	3529.8	3116.1	2730.8	2363.8	2009.6
52.5°	5785.4	5552.6	5163.3	4783.1	4441.6	4079.7	3674.6	3226.3	2814.2	2429.4	2045.2
55°	6097.9	5879.9	5530.7	5057.5	4669.8	4269.3	3811.3	3327.0	2902.1	2498.0	2071.1
57.5°	6307.8	6181.8	5808.7	5299.0	4857.3	4430.9	3914.5	3428.1	2984.4	2540.7	2082.3
60°	6405.4	6388.6	6073.0	5517.0	5024.0	4556.9	4044.6	3535.4	3038.8	2560.0	2066.5
62.5°	6385.1	6505.0	6274.3	5666.4	5130.2	4635.7	4128.0	3581.6	3025.1	2513.3	1996.9
63°	6366.3	6510.1	6302.8	5681.2	5138.9	4643.3	4136.1	3576.0	3012.4	2492.4	1973.0
65°	6228.5	6450.1	6309.9	5654.7	5099.2	4621.5	4099.5	3488.1	2885.8	2361.3	1837.8
67.5°	5891.1	6113.2	6035.4	5363.5	4842.6	4386.7	3843.9	3188.7	2575.8	2082.8	1587.3
70°	5194.3	5393.0	5300.0	4708.9	4225.0	3901.8	3385.9	2652.0	2098.5	1674.2	1208.1
72.5°	4108.7	4248.4	4268.8	3799.1	3428.6	3234.5	2727.8	2000.5	1532.9	1165.9	784.2
75°	3042.4	3009.8	3016.4	2754.2	2603.2	2521.4	2039.1	1372.3	1032.8	712.6	465.0
77.5°	2557.0	2323.2	2124.0	2051.3	1875.4	1824.6	1344.8	842.2	602.8	426.4	264.8
80°	2079.2	1725.0	1435.3	1306.7	1238.1	1248.3	744.1	448.8	315.6	232.3	165.7
82.5°	1421.6	1152.2	908.7	789.3	777.1	788.8	386.8	220.1	166.7	133.7	104.2
85°	840.6	791.3	706.5	627.2	599.7	566.2	287.7	157.6	85.9	71.2	58.4
87.5°	363.4	446.2	456.9	454.9	423.4	340.0	105.7	40.7	36.1	18.3	14.7
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°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	844.2	844.7	843.7	844.7	848.3	848.3	847.8	848.8	849.3	852.3	851.3
5°	869.6	870.1	870.6	874.2	876.7	879.8	878.8	879.8	881.8	882.3	883.3
7.5°	893.0	896.0	900.1	901.6	906.2	907.2	911.8	912.3	913.3	911.3	909.3
10°	909.3	912.3	917.4	919.9	928.1	929.1	932.6	933.6	935.7	934.2	932.6
12.5°	917.4	919.9	925.5	930.6	941.8	945.3	951.4	955.0	957.5	956.0	950.9
15°	934.2	933.6	936.7	940.8	950.9	957.5	966.2	970.7	973.8	971.3	964.6
17.5°	972.8	965.7	965.7	963.1	970.7	972.3	975.8	978.4	977.4	969.7	959.1
20°	1026.1	1015.5	1008.9	1002.8	1000.2	987.5	980.9	971.8	963.6	949.9	937.7
22.5°	1095.3	1087.6	1072.4	1058.7	1039.4	1013.4	985.5	961.6	943.8	925.0	904.2
25°	1200.0	1182.7	1160.8	1128.3	1103.4	1057.7	1010.9	965.7	927.5	898.1	863.0
27.5°	1298.6	1262.0	1220.8	1170.0	1124.2	1063.2	1003.8	951.4	901.6	854.4	814.2
30°	1380.9	1317.4	1250.3	1179.1	1114.1	1040.4	971.3	911.8	855.4	799.5	761.4
32.5°	1442.9	1351.4	1262.0	1171.0	1090.7	1004.3	925.0	861.5	797.4	738.5	694.3
35°	1498.8	1375.3	1258.4	1149.1	1054.1	958.6	873.2	802.0	731.9	668.9	618.0
37.5°	1539.0	1383.4	1243.2	1117.6	1007.3	902.6	810.1	734.4	659.2	595.2	539.2
40°	1570.0	1379.4	1214.2	1069.3	943.3	834.5	744.1	664.8	589.6	525.5	467.1
42.5°	1590.8	1364.1	1170.5	1014.5	889.9	776.1	687.7	604.3	529.1	462.0	397.4
45°	1617.7	1358.0	1143.6	973.3	841.7	726.8	632.3	550.9	472.7	402.5	341.0
47.5°	1643.2	1354.5	1121.7	939.2	797.9	682.1	588.5	503.2	424.4	355.8	299.9
50°	1658.4	1348.9	1098.8	898.1	749.2	636.3	546.9	460.5	381.2	315.6	265.8
52.5°	1663.0	1337.7	1068.8	851.3	707.0	597.2	504.2	417.8	341.5	282.6	236.3
55°	1659.4	1315.8	1028.2	813.2	663.8	554.0	461.0	377.1	308.0	252.6	215.5
57.5°	1642.1	1272.1	975.8	764.9	614.5	499.6	408.1	331.4	269.9	225.7	197.2
60°	1603.5	1209.1	911.8	697.3	543.8	435.1	348.7	282.6	230.7	198.7	179.9
62.5°	1519.1	1118.1	818.8	601.8	449.3	349.2	273.9	225.2	190.1	173.3	162.1
63°	1494.2	1086.6	791.3	576.4	433.0	329.9	257.2	213.0	181.4	167.7	158.6
65°	1363.1	941.3	668.9	463.5	335.4	250.1	196.2	167.2	150.4	145.4	142.8
67.5°	1117.1	732.4	470.6	311.0	225.2	172.8	144.8	133.7	127.6	127.1	128.6
70°	789.3	485.9	291.2	199.2	155.0	130.6	119.9	114.9	111.8	112.8	115.9
72.5°	513.3	285.1	184.0	145.9	126.0	114.9	107.2	105.7	104.7	103.7	104.7
75°	271.4	178.4	139.3	122.0	110.3	101.1	96.1	94.0	94.5	94.5	94.5
77.5°	168.2	135.7	118.9	107.7	98.6	89.5	84.4	82.8	83.4	84.4	84.9
80°	129.1	118.4	104.7	96.6	83.4	75.7	73.2	72.7	73.7	73.7	75.2
82.5°	94.5	91.5	86.4	76.2	66.1	61.0	60.5	62.5	60.5	60.0	61.0
85°	55.4	51.8	56.4	48.3	44.2	41.2	43.2	47.3	49.3	46.8	45.7
87.5°	17.8	12.2	17.8	19.8	17.8	15.2	19.3	22.9	23.4	22.4	25.4
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: P145926

CATALOG NUMBER: VPL-F03-LED-E1-CPL-7050

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	850.8	854.4	850.8	852.3	851.8	850.8	852.3	850.3	849.3	852.3	851.8
5°	882.8	883.3	878.8	879.3	878.8	874.7	874.7	872.7	870.1	870.6	869.6
7.5°	908.7	907.7	904.2	902.6	898.1	895.0	893.0	889.9	887.9	885.9	884.9
10°	928.6	926.0	923.5	918.9	914.3	911.8	906.2	901.6	900.1	897.1	895.0
12.5°	945.8	941.3	937.2	931.6	926.0	922.0	915.3	911.8	909.3	905.2	902.1
15°	955.5	946.9	939.2	930.6	924.5	918.4	910.8	909.3	905.7	901.6	896.0
17.5°	943.8	931.6	917.4	908.2	899.1	889.9	882.3	882.3	880.8	876.2	866.6
20°	919.9	901.6	884.9	870.1	861.0	847.8	843.2	836.1	831.0	822.8	810.7
22.5°	880.8	861.5	839.6	824.9	809.1	794.4	785.2	774.1	770.0	756.8	740.5
25°	837.1	809.1	785.7	766.4	744.6	727.3	714.6	699.3	689.2	676.5	656.1
27.5°	785.2	756.3	729.8	708.5	685.6	661.7	638.4	620.6	602.3	587.5	575.8
30°	729.3	699.3	666.8	641.9	615.5	585.5	566.2	542.3	528.1	511.8	496.6
32.5°	656.1	629.7	591.6	562.6	530.1	506.7	491.0	468.1	451.3	437.6	429.0
35°	575.8	536.2	498.1	476.2	453.9	435.1	413.2	395.4	384.2	370.0	362.4
37.5°	488.4	442.2	409.6	390.3	367.5	358.3	344.6	333.9	323.8	314.1	308.0
40°	410.2	367.5	338.0	321.7	306.5	296.3	287.7	283.1	276.5	268.9	264.3
42.5°	345.1	311.0	282.1	266.8	255.1	254.1	248.5	245.0	242.4	237.9	230.7
45°	294.3	263.3	238.4	226.2	221.1	221.6	221.6	218.5	218.5	217.0	212.4
47.5°	260.2	232.3	214.0	205.8	203.8	204.3	202.8	201.8	202.3	201.8	199.2
50°	233.8	209.9	194.7	191.6	191.1	190.6	188.6	187.0	186.5	187.5	187.0
52.5°	206.9	187.0	178.4	177.4	177.9	177.9	177.4	176.9	177.9	178.9	177.4
55°	191.6	177.4	171.8	171.8	171.8	171.8	171.3	170.8	172.3	173.8	171.3
57.5°	177.4	167.2	165.2	165.2	165.2	164.2	164.2	164.7	166.7	169.8	166.7
60°	166.7	161.6	161.6	162.1	161.6	159.6	158.1	158.1	160.6	164.7	162.1
62.5°	156.5	154.0	155.0	154.5	153.5	150.9	148.9	148.9	152.0	156.0	157.0
63°	154.0	152.0	153.0	152.5	151.5	149.4	147.4	147.4	149.9	154.0	155.5
65°	142.8	143.3	143.8	144.3	143.8	143.3	140.8	139.8	141.8	144.8	146.9
67.5°	129.6	130.6	131.6	134.2	133.2	133.2	131.6	130.6	131.1	132.7	134.2
70°	117.4	118.4	119.9	121.0	121.5	122.0	121.0	119.4	119.9	120.5	121.5
72.5°	105.7	106.7	107.7	109.8	109.8	109.8	108.8	107.7	108.3	109.3	110.3
75°	95.0	95.6	96.6	98.1	98.6	97.6	97.6	96.6	97.1	98.6	99.6
77.5°	84.4	83.4	83.9	84.9	86.4	86.4	86.9	86.4	87.4	88.4	89.5
80°	72.2	71.2	70.1	70.6	72.7	75.2	77.8	77.8	79.3	79.8	81.3
82.5°	57.4	56.4	55.9	57.4	56.9	60.5	66.1	69.1	71.2	73.2	74.2
85°	44.7	42.2	43.2	43.2	42.2	47.8	52.9	56.9	57.4	60.5	61.0
87.5°	26.4	25.4	24.4	23.4	26.9	32.5	37.1	38.6	39.6	41.2	42.7
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: P145926

CATALOG NUMBER: VPL-F03-LED-E1-CPL-7050

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	847.8	851.8	850.8	850.3	850.8	850.3	848.8	849.3	848.3	848.8	847.8
5°	864.0	866.1	864.5	862.0	862.0	858.4	855.9	853.9	851.3	850.3	848.3
7.5°	879.8	878.2	876.2	871.6	869.1	864.5	861.0	856.9	854.4	851.3	847.8
10°	889.4	886.4	882.3	876.7	869.6	865.5	860.5	854.4	851.3	849.8	846.2
12.5°	894.0	885.9	879.3	869.1	858.9	851.3	845.7	839.6	838.1	836.1	833.5
15°	883.3	871.6	854.9	841.1	827.9	817.3	812.7	806.1	804.6	804.0	803.5
17.5°	847.2	829.5	813.2	794.9	783.2	773.5	769.5	768.0	765.4	764.4	764.9
20°	789.3	774.1	757.8	751.7	738.0	735.4	729.3	725.3	720.7	719.2	716.6
22.5°	721.7	702.9	692.7	688.2	682.6	669.4	666.3	662.2	656.1	651.6	650.6
25°	642.9	627.7	627.2	616.5	611.9	604.8	596.7	591.6	588.0	582.4	578.4
27.5°	562.6	557.0	547.4	539.2	536.2	532.1	519.9	517.4	513.3	508.8	504.2
30°	487.9	483.8	474.7	467.1	462.5	454.4	442.7	443.7	435.6	429.5	425.4
32.5°	415.2	412.2	403.5	401.5	386.8	382.7	370.5	361.4	353.2	347.1	342.0
35°	349.7	341.5	342.0	332.9	324.8	312.6	299.9	288.2	281.6	278.5	273.9
37.5°	302.4	294.8	287.2	277.0	267.8	259.2	251.6	248.0	244.0	245.0	245.5
40°	259.7	254.1	248.5	241.4	235.8	232.3	230.2	230.2	230.7	233.3	235.3
42.5°	229.2	224.6	221.6	219.1	220.1	220.1	221.6	224.1	226.7	230.2	232.3
45°	208.9	206.3	205.3	206.3	209.4	211.9	215.5	219.6	223.6	227.2	228.7
47.5°	196.7	195.2	195.2	197.7	202.3	206.3	211.9	216.0	220.6	223.6	224.6
50°	183.5	183.0	183.0	185.0	189.1	194.1	199.7	203.8	207.9	210.4	211.4
52.5°	175.9	174.3	173.8	176.4	179.9	185.0	190.6	194.7	197.7	199.7	200.2
55°	169.2	167.7	166.7	169.8	173.8	178.4	185.0	189.6	192.6	195.2	197.2
57.5°	163.7	162.1	161.1	164.7	168.7	174.3	179.9	185.0	189.1	192.1	194.1
60°	159.1	157.0	156.0	160.1	164.2	169.8	175.3	180.9	186.5	190.1	191.1
62.5°	153.5	152.0	150.4	153.0	155.0	159.1	164.2	169.8	174.8	178.4	178.4
63°	152.0	151.5	149.4	151.5	153.5	157.0	162.1	167.2	172.3	176.4	175.9
65°	145.4	145.4	144.3	146.4	148.4	152.0	156.0	161.6	166.2	169.2	169.8
67.5°	134.7	135.2	136.2	138.2	142.3	145.9	150.4	155.5	159.6	161.6	162.6
70°	122.5	123.5	125.5	128.6	132.1	135.2	138.2	143.3	146.9	148.9	149.9
72.5°	110.8	113.3	114.9	117.4	119.4	122.5	125.0	130.1	133.2	134.7	137.2
75°	100.1	102.2	103.2	104.7	106.7	107.7	110.8	112.8	116.9	118.9	122.0
77.5°	90.0	91.0	92.5	95.0	95.6	97.1	98.1	101.1	103.2	105.2	107.7
80°	80.8	81.8	83.9	85.4	85.9	86.9	87.4	86.9	86.4	84.9	86.9
82.5°	72.7	73.7	76.2	77.8	79.3	79.3	78.8	73.2	70.6	71.7	73.2
85°	60.0	61.0	63.5	66.6	67.1	66.6	67.1	61.5	57.9	56.4	57.9
87.5°	37.6	36.6	45.2	49.3	46.3	47.3	47.8	44.7	41.7	35.6	37.1
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: P145926  
 CATALOG NUMBER: VPL-F03-LED-E1-CPL-7050

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	0°
2.5°	848.8	845.2	845.7	846.7	846.7	848.3	846.2	843.7	845.2	842.7	842.2	2.5°
5°	848.3	843.7	843.7	844.7	843.7	844.7	843.2	840.6	842.2	839.1	838.6	5°
7.5°	846.2	843.7	844.7	845.7	844.2	844.7	844.2	840.6	841.1	839.6	836.1	7.5°
10°	845.2	843.7	845.7	848.8	848.8	849.3	847.8	843.7	841.1	839.6	836.6	10°
12.5°	834.5	836.6	840.6	847.8	850.3	854.4	856.4	854.4	855.4	853.3	852.3	12.5°
15°	804.0	809.1	815.7	826.4	834.0	843.2	854.4	859.4	869.1	876.7	881.8	15°
17.5°	767.5	771.0	778.1	790.3	800.0	818.3	833.5	850.8	869.6	889.9	907.7	17.5°
20°	722.2	719.7	730.9	744.1	760.8	781.2	803.5	829.5	860.5	893.0	924.0	20°
22.5°	655.6	655.6	667.3	683.1	703.4	726.8	757.8	785.7	826.4	873.7	919.4	22.5°
25°	579.4	580.9	589.1	606.8	621.1	654.6	683.6	719.7	768.5	820.3	881.3	25°
27.5°	498.1	508.2	506.2	525.0	543.8	576.9	616.5	653.1	707.5	762.9	832.5	27.5°
30°	424.4	422.9	422.4	444.7	463.5	493.5	526.0	572.3	627.2	698.3	778.6	30°
32.5°	332.9	338.5	342.6	355.8	376.1	404.1	439.1	487.4	553.5	625.1	715.6	32.5°
35°	275.0	276.5	282.1	289.7	307.5	330.9	367.5	410.2	468.1	542.3	638.4	35°
37.5°	246.5	248.0	254.1	261.2	273.9	291.2	316.1	349.2	402.5	471.7	561.1	37.5°
40°	237.4	238.9	242.4	249.0	260.7	275.5	295.3	320.7	359.3	413.2	491.5	40°
42.5°	233.3	233.3	233.8	238.9	250.6	267.8	289.2	312.1	340.5	381.2	444.7	42.5°
45°	228.7	228.7	228.2	231.8	240.9	260.7	286.7	314.6	345.6	380.7	430.5	45°
47.5°	224.6	223.6	222.6	224.1	231.8	252.1	282.1	316.1	355.8	399.5	449.8	47.5°
50°	210.4	210.4	209.9	210.4	217.5	238.9	273.4	314.6	364.9	421.3	482.3	50°
52.5°	200.2	200.8	201.3	201.3	206.9	228.7	266.8	315.1	375.1	442.7	519.9	52.5°
55°	197.7	198.7	198.7	197.7	202.3	222.1	260.7	313.6	382.2	466.6	560.1	55°
57.5°	194.7	195.2	195.7	194.7	197.7	215.0	252.1	306.5	380.2	475.7	590.1	57.5°
60°	190.6	188.6	188.1	186.5	188.6	202.3	236.8	291.2	368.0	471.7	600.2	60°
62.5°	179.4	177.9	176.4	174.8	176.4	186.5	220.1	272.4	347.6	455.4	592.1	62.5°
63°	176.9	175.9	174.3	172.8	172.8	184.0	214.5	267.8	342.6	450.8	589.1	63°
65°	169.8	169.2	168.2	166.7	166.2	174.8	201.8	247.0	318.7	430.5	569.7	65°
67.5°	161.6	161.6	161.1	159.1	156.5	161.6	180.4	216.0	277.0	378.1	522.0	67.5°
70°	149.9	149.9	149.4	148.4	145.4	148.9	161.1	184.5	228.2	309.0	437.6	70°
72.5°	138.2	138.2	139.8	139.3	139.8	140.3	146.4	159.1	185.5	240.4	330.9	72.5°
75°	123.0	125.5	126.0	127.1	127.6	127.1	130.1	137.7	153.0	184.5	241.4	75°
77.5°	110.3	113.8	113.3	112.3	111.8	112.3	111.8	115.4	126.6	146.4	178.9	77.5°
80°	91.0	94.5	94.5	94.0	93.0	94.0	93.0	96.6	105.7	123.0	142.3	80°
82.5°	74.7	77.3	78.8	79.8	78.8	82.8	82.8	81.8	88.9	104.2	119.9	82.5°
85°	60.0	62.5	64.0	66.1	67.1	66.1	65.6	64.5	68.6	80.8	91.5	85°
87.5°	38.1	40.2	40.2	40.7	40.7	42.2	39.1	35.6	32.5	46.3	48.3	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: P145926

NUMBER: VPL-F03-LED-E1-CPL-7050

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
840.6	840.6	840.6	840.6	840.6	840.6	840.6
840.6	840.6	841.1	839.6	841.1	841.1	839.6
837.1	836.1	836.1	835.6	836.6	836.1	835.6
834.0	834.0	832.0	830.5	830.0	832.0	831.0
833.0	832.0	831.5	830.5	831.0	832.5	833.5
851.3	847.8	848.8	848.3	848.8	850.3	853.3
884.9	884.9	887.4	881.8	884.3	886.9	891.0
922.5	931.6	936.2	935.7	936.7	938.7	943.3
954.5	983.5	1003.8	1008.9	1022.6	1025.6	1018.5
968.7	1020.6	1066.3	1096.8	1130.8	1144.6	1148.6
939.7	1014.5	1089.7	1159.8	1226.9	1265.5	1299.6
909.8	998.2	1098.3	1203.0	1312.3	1410.9	1484.6
868.1	985.0	1120.2	1261.5	1406.3	1543.5	1666.5
822.3	963.6	1122.2	1294.0	1472.9	1643.7	1792.6
756.8	913.8	1089.7	1288.9	1496.3	1710.2	1896.3
681.6	834.5	1031.7	1259.4	1494.7	1744.3	1967.4
601.3	757.8	965.2	1209.1	1474.9	1755.0	2017.2
540.8	695.8	899.1	1161.3	1445.4	1747.9	2041.1
509.8	642.4	845.2	1114.6	1412.4	1730.6	2051.3
515.9	628.2	813.2	1076.0	1382.9	1711.8	2048.7
549.9	649.5	812.7	1061.7	1364.1	1694.5	2041.6
601.3	697.8	842.2	1078.5	1374.3	1693.0	2041.1
659.2	765.4	913.3	1123.7	1417.5	1720.4	2053.3
715.1	847.8	1004.8	1224.9	1499.3	1789.0	2102.6
748.1	923.0	1122.2	1367.7	1625.4	1909.5	2210.9
755.8	968.2	1226.4	1508.0	1798.2	2083.8	2379.6
755.3	972.8	1244.2	1536.9	1833.2	2124.0	2422.8
743.6	981.9	1292.0	1632.5	1974.0	2296.3	2603.2
707.0	965.7	1318.4	1721.4	2113.8	2486.3	2874.6
623.1	891.5	1287.4	1750.4	2197.1	2612.4	3055.6
487.9	735.4	1111.5	1600.0	2084.3	2499.6	3060.1
343.1	519.9	855.4	1313.8	1703.6	2112.3	2733.3
238.9	337.0	555.5	883.8	1229.4	1541.0	2032.0
174.8	224.1	332.9	528.6	746.1	963.1	1261.0
134.7	161.6	213.0	319.2	421.3	539.2	760.3
94.5	106.7	131.6	197.2	282.6	385.8	557.0
41.2	48.3	63.5	116.4	191.1	184.0	175.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)