

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: P145934

Luminaire Tested: **VPL-F04-LED-E1-CPL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145934
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-F04-LED-E1-CPL-7030
Description: VALET LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER LEFT
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8123.3 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

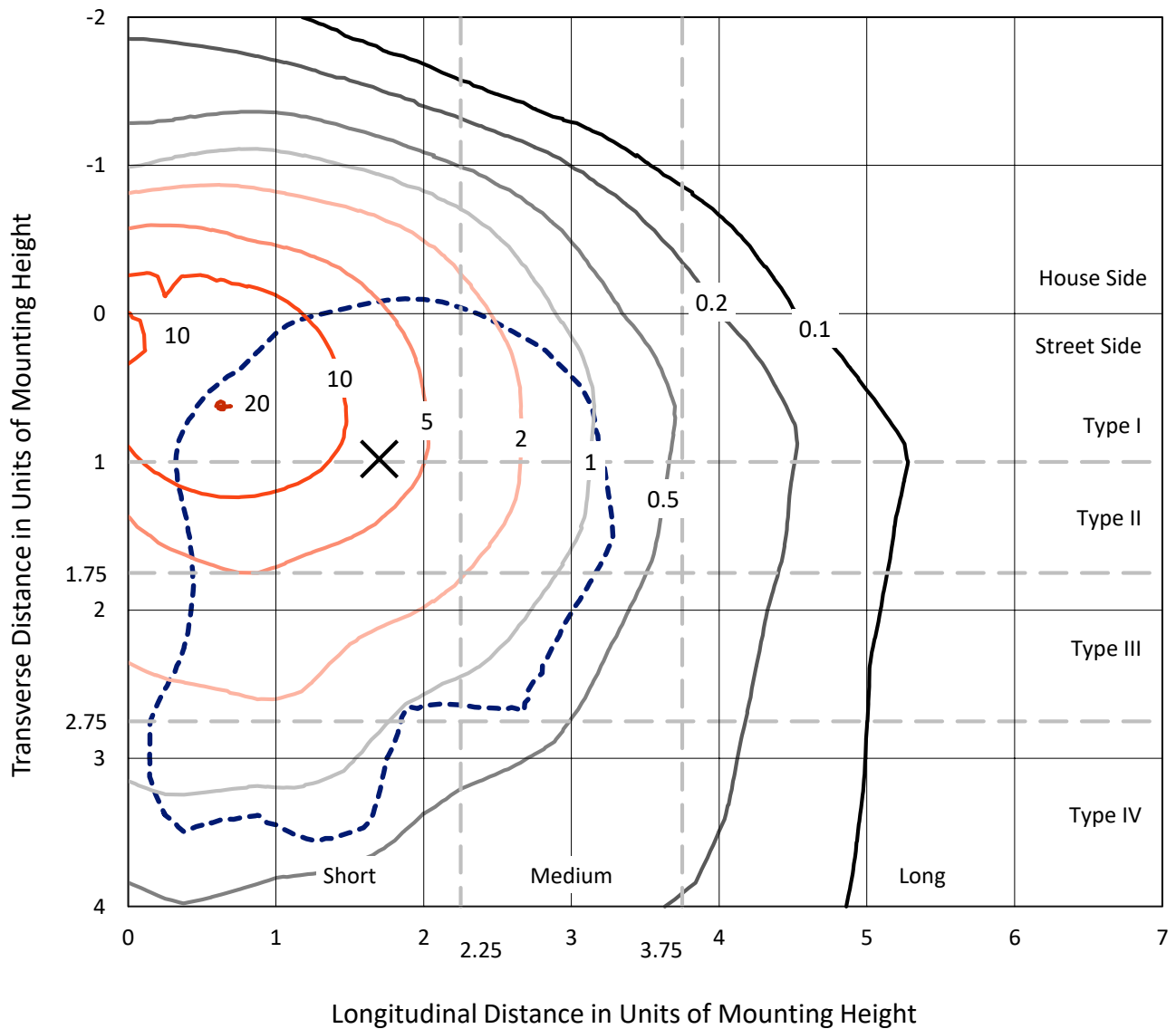
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

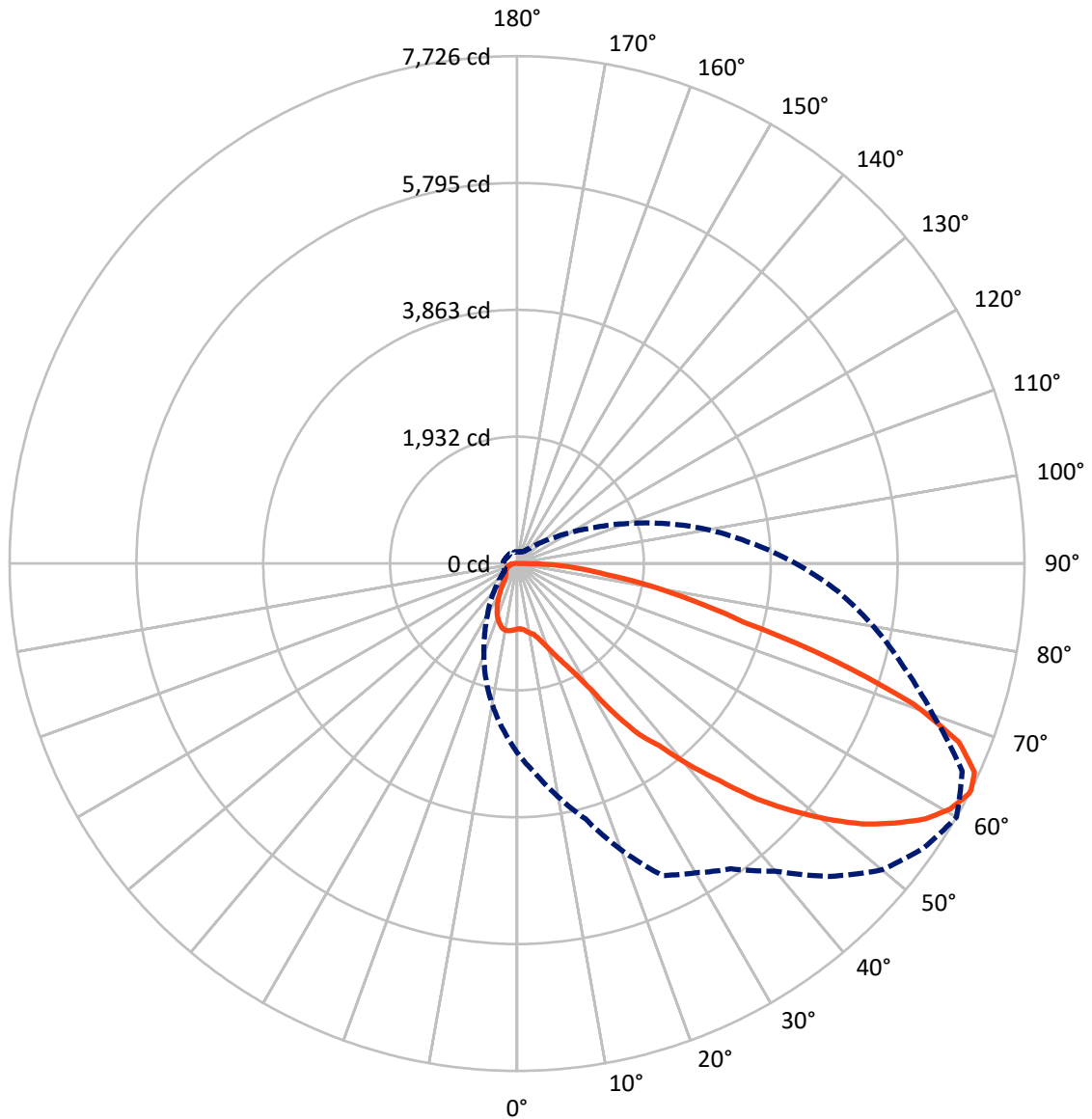


Based on 10 foot mounting height. Maximum calculated value = 20.2 fc
 Type IV - Short - Non-Cutoff

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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
House Side	Lumens	1700.4	0.0	1700.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	6422.9	0.0	6422.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	8123.3	0.0	8123.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	1.2
10°-20°	305.8	3.8
20°-30°	540.8	6.7
30°-40°	853.8	10.5
40°-50°	1255.5	15.5
50°-60°	1653.8	20.4
60°-70°	1843.3	22.7
70°-80°	1211.1	14.9
80°-90°	361.2	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°	8123.3	100.0
0°-180°	8123.3	100.0

Coefficient of Utilization



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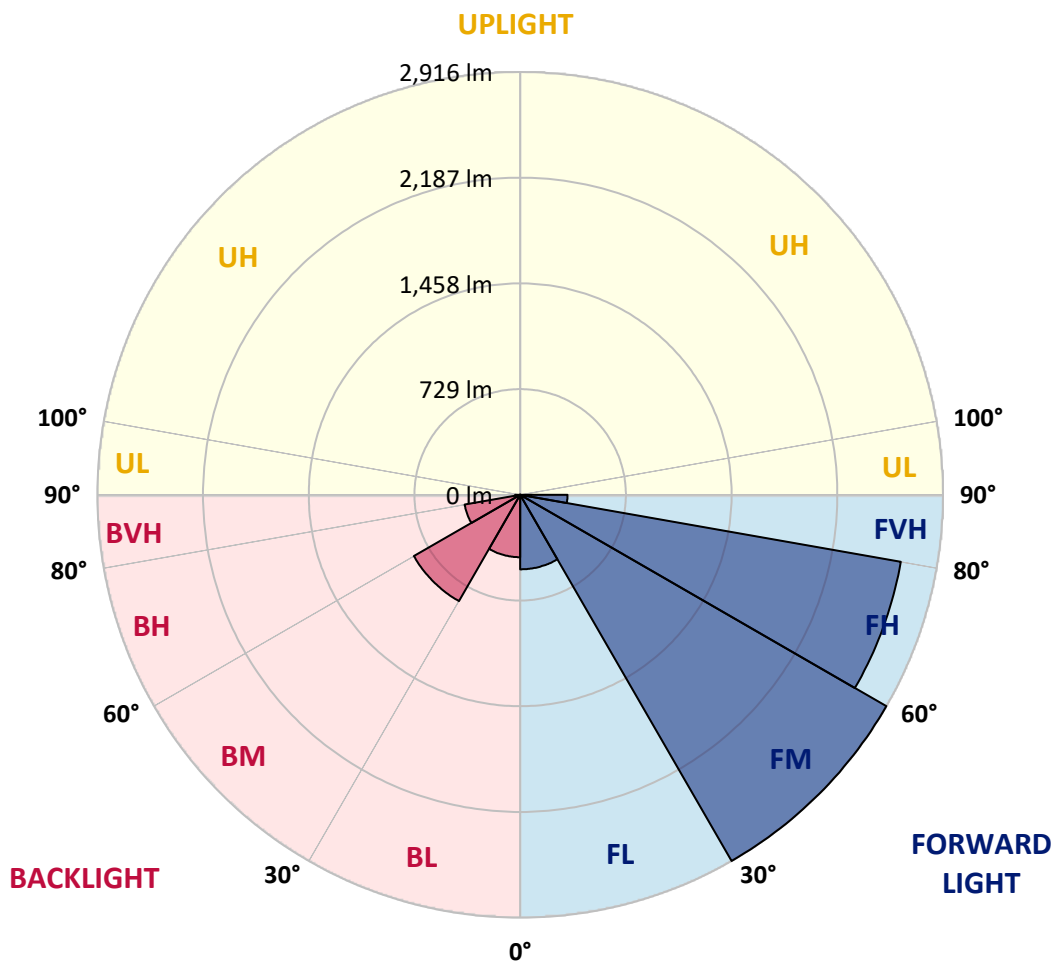
CATALOG NUMBER: VPL-F04-LED-E1-CPL-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	514.1	6.3			
FM	(30°-60°)	2916.5	35.9			
FH	(60°-80°)	2665.8	32.8			G2/5000
FVH	(80°-90°)	326.4	4.0			G3/500
BL	(0°-30°)	430.5	5.3	B1/500		
BM	(30°-60°)	846.6	10.4	B1/1000		
BH	(60°-80°)	388.6	4.8	B1/500		G1/500
BVH	(80°-90°)	34.8	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°	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7
2.5°	996.5	997.1	995.3	994.7	993.5	994.1	994.1	992.9	992.9	993.5	991.7
5°	991.7	992.9	992.3	993.5	994.7	996.5	998.3	1000.1	1001.9	1004.3	1004.9
7.5°	986.2	989.8	990.4	994.1	998.3	1003.1	1009.1	1015.8	1024.8	1027.2	1032.7
10°	989.2	995.9	999.5	1006.7	1013.4	1022.4	1033.3	1039.9	1051.4	1055.6	1063.4
12.5°	1012.8	1017.6	1022.4	1030.9	1040.5	1052.0	1064.0	1074.3	1086.4	1090.6	1093.6
15°	1057.4	1062.2	1067.7	1076.1	1086.4	1100.2	1117.7	1130.4	1144.9	1155.7	1163.6
17.5°	1119.5	1119.5	1132.2	1134.6	1154.5	1175.6	1197.3	1222.1	1237.2	1246.2	1260.7
20°	1208.8	1208.8	1225.7	1233.5	1250.4	1277.6	1307.1	1334.3	1356.0	1374.1	1387.3
22.5°	1363.2	1356.6	1371.1	1369.3	1389.8	1430.2	1459.1	1474.2	1503.2	1514.0	1531.5
25°	1542.4	1565.9	1581.6	1581.6	1590.0	1631.6	1655.8	1667.2	1693.8	1685.9	1704.0
27.5°	1761.9	1825.3	1883.8	1907.9	1896.4	1942.3	1950.7	1961.6	1958.6	1939.9	1934.4
30°	1977.9	2089.5	2180.5	2236.0	2300.0	2388.7	2388.7	2403.1	2371.8	2319.9	2289.1
32.5°	2127.5	2271.0	2410.4	2525.6	2634.2	2769.9	2827.2	2906.8	2920.1	2940.0	2871.2
35°	2250.5	2452.0	2601.6	2774.7	2907.4	3044.9	3197.5	3335.7	3427.4	3412.3	3385.1
37.5°	2335.0	2593.7	2802.4	3005.7	3207.8	3365.2	3510.0	3690.3	3865.9	3900.9	3827.3
40°	2394.1	2693.9	2981.0	3230.7	3484.7	3721.1	3897.2	4090.9	4365.9	4482.3	4422.0
42.5°	2422.4	2772.3	3092.6	3410.5	3732.0	4030.5	4251.3	4516.7	4843.1	5042.1	4975.8
45°	2434.5	2820.5	3183.1	3545.0	3931.0	4299.6	4584.3	4885.3	5252.6	5572.3	5584.4
47.5°	2431.5	2846.5	3245.2	3640.9	4087.2	4516.1	4897.9	5239.3	5655.6	5991.5	6116.4
50°	2423.0	2855.5	3282.6	3698.8	4185.6	4674.8	5104.8	5510.8	5975.9	6401.1	6591.1
52.5°	2422.4	2857.3	3301.3	3730.8	4243.5	4771.9	5234.5	5714.1	6223.8	6668.3	6964.5
55°	2436.9	2868.2	3321.8	3753.1	4274.8	4826.8	5307.5	5841.3	6331.7	6836.6	7219.0
57.5°	2495.4	2918.9	3370.7	3791.1	4309.8	4870.2	5364.2	5878.1	6363.7	6906.6	7366.8
60°	2623.9	3013.6	3455.7	3861.0	4400.9	4984.2	5417.9	5826.3	6303.4	6886.7	7387.9
62.5°	2824.2	3165.6	3574.5	3990.1	4586.1	5200.7	5440.2	5707.4	6154.4	6772.1	7296.8
63°	2875.4	3206.0	3605.9	4025.7	4639.8	5241.8	5438.4	5676.1	6113.4	6738.3	7255.8
65°	3089.6	3393.0	3751.9	4195.8	4884.1	5372.1	5372.7	5491.5	5904.1	6551.9	7087.5
67.5°	3411.7	3701.2	3978.7	4420.2	5154.3	5437.2	5177.8	5087.9	5452.9	6157.4	6660.5
70°	3626.4	3984.1	4139.7	4479.3	5191.1	5358.2	4869.6	4569.8	4872.6	5461.3	5908.3
72.5°	3631.8	4039.6	4084.8	4227.2	4846.7	4980.6	4338.8	3932.8	4115.0	4609.0	4844.3
75°	3244.0	3756.7	3663.8	3611.3	3946.7	4004.0	3509.4	3340.5	3573.9	3865.9	3748.3
77.5°	2411.6	3093.2	2904.4	2681.2	2803.0	2811.5	2827.2	3145.7	3432.2	3551.6	3380.3
80°	1496.5	2272.2	2127.5	1759.5	1806.6	1945.3	2361.5	2924.3	3237.9	3323.6	2981.0
82.5°	902.4	1671.5	1594.2	1342.7	1401.8	1747.5	2207.7	2363.3	2468.9	2461.0	2107.0
85°	661.1	1135.2	1240.2	1258.9	1468.8	1696.8	1687.1	1571.9	1507.4	1326.4	1132.2
87.5°	208.1	585.7	694.9	810.1	887.3	839.6	825.8	713.6	510.9	431.9	474.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7
2.5°	991.7	994.1	995.3	994.7	995.3	995.3	998.9	997.7	998.9	998.3	1001.9
5°	1006.7	1010.4	1013.4	1013.4	1014.0	1015.2	1020.0	1020.0	1022.4	1027.2	1029.7
7.5°	1036.3	1041.1	1041.7	1042.9	1046.5	1044.7	1047.7	1049.0	1050.8	1053.2	1056.2
10°	1067.1	1073.7	1073.7	1073.1	1073.7	1068.9	1070.7	1067.1	1067.7	1071.3	1074.9
12.5°	1101.4	1105.1	1102.6	1100.8	1100.8	1091.8	1090.6	1085.8	1083.3	1083.9	1085.1
15°	1170.2	1167.2	1166.6	1163.6	1152.7	1146.1	1141.2	1126.2	1118.3	1114.1	1106.9
17.5°	1261.9	1263.7	1260.7	1257.7	1242.0	1219.7	1210.0	1193.7	1182.9	1172.0	1158.7
20°	1395.8	1383.7	1382.5	1372.9	1351.2	1319.8	1296.3	1269.7	1254.6	1239.0	1225.1
22.5°	1543.6	1530.9	1522.5	1503.8	1471.8	1432.0	1392.8	1359.0	1336.1	1324.6	1315.0
25°	1707.6	1700.4	1686.5	1638.9	1613.5	1567.7	1524.9	1491.7	1465.8	1456.1	1439.2
27.5°	1904.3	1909.7	1883.8	1839.1	1807.2	1742.6	1705.8	1648.5	1626.8	1591.8	1570.1
30°	2262.6	2227.6	2183.6	2115.4	2050.9	1964.0	1903.1	1843.4	1811.4	1764.3	1706.4
32.5°	2848.3	2715.0	2596.8	2452.0	2315.1	2204.1	2116.0	2040.6	1991.7	1913.9	1815.6
35°	3320.6	3192.1	2996.7	2786.2	2606.4	2464.1	2353.1	2281.9	2184.2	2059.9	1917.6
37.5°	3666.8	3519.0	3336.3	3175.2	2979.2	2820.5	2670.3	2522.6	2385.0	2196.8	2015.3
40°	4229.0	4028.7	3727.7	3537.7	3377.3	3162.6	3022.0	2823.0	2613.6	2371.2	2108.2
42.5°	4785.1	4519.7	4247.1	4028.7	3800.7	3567.9	3374.9	3107.7	2829.6	2515.3	2191.4
45°	5431.2	5106.0	4749.6	4444.3	4210.3	3936.4	3689.1	3361.0	3006.3	2633.5	2263.8
47.5°	5940.3	5618.2	5215.8	4908.2	4592.7	4283.9	3963.0	3558.2	3137.8	2730.1	2331.3
50°	6428.2	6117.6	5689.9	5312.3	4949.8	4577.0	4189.2	3698.2	3241.0	2805.5	2385.0
52.5°	6866.2	6589.9	6127.9	5676.7	5271.3	4841.8	4361.1	3829.1	3339.9	2883.3	2427.3
55°	7237.1	6978.4	6564.0	6002.4	5542.2	5066.8	4523.4	3948.5	3444.2	2964.7	2458.0
57.5°	7486.3	7336.7	6893.9	6288.9	5764.7	5258.7	4645.8	4068.5	3542.0	3015.4	2471.3
60°	7602.1	7582.2	7207.6	6547.7	5962.6	5408.2	4800.2	4195.8	3606.5	3038.3	2452.6
62.5°	7577.9	7720.3	7446.4	6725.0	6088.6	5501.7	4899.1	4250.7	3590.2	2982.8	2370.0
63°	7555.6	7726.3	7480.2	6742.5	6098.9	5510.8	4908.8	4244.1	3575.1	2958.1	2341.6
65°	7392.2	7655.1	7488.7	6711.1	6051.9	5484.9	4865.4	4139.7	3424.9	2802.4	2181.2
67.5°	6991.6	7255.2	7162.9	6365.5	5747.2	5206.2	4562.0	3784.4	3057.0	2471.9	1883.8
70°	6164.7	6400.5	6290.1	5588.6	5014.4	4630.7	4018.5	3147.5	2490.6	1986.9	1433.8
72.5°	4876.2	5042.1	5066.2	4508.9	4069.2	3838.7	3237.3	2374.2	1819.2	1383.7	930.7
75°	3610.7	3572.1	3580.0	3268.7	3089.6	2992.4	2420.0	1628.6	1225.7	845.7	551.9
77.5°	3034.7	2757.2	2520.8	2434.5	2225.8	2165.5	1596.1	999.5	715.4	506.1	314.3
80°	2467.7	2047.2	1703.4	1550.8	1469.4	1481.4	883.1	532.6	374.6	275.7	196.6
82.5°	1687.1	1367.4	1078.5	936.8	922.3	936.2	459.0	261.2	197.8	158.6	123.7
85°	997.7	939.2	838.4	744.3	711.8	672.0	341.4	187.0	101.9	84.4	69.4
87.5°	431.3	529.6	542.3	539.9	502.5	403.5	125.5	48.3	42.8	21.7	17.5
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°	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7
2.5°	1001.9	1002.5	1001.3	1002.5	1006.7	1006.7	1006.1	1007.3	1007.9	1011.6	1010.4
5°	1032.1	1032.7	1033.3	1037.5	1040.5	1044.1	1042.9	1044.1	1046.5	1047.1	1048.4
7.5°	1059.8	1063.4	1068.3	1070.1	1075.5	1076.7	1082.1	1082.7	1083.9	1081.5	1079.1
10°	1079.1	1082.7	1088.8	1091.8	1101.4	1102.6	1106.9	1108.1	1110.5	1108.7	1106.9
12.5°	1088.8	1091.8	1098.4	1104.4	1117.7	1121.9	1129.2	1133.4	1136.4	1134.6	1128.6
15°	1108.7	1108.1	1111.7	1116.5	1128.6	1136.4	1146.7	1152.1	1155.7	1152.7	1144.9
17.5°	1154.5	1146.1	1146.1	1143.1	1152.1	1153.9	1158.1	1161.1	1159.9	1150.9	1138.2
20°	1217.9	1205.2	1197.3	1190.1	1187.1	1172.0	1164.2	1153.3	1143.7	1127.4	1112.9
22.5°	1299.9	1290.8	1272.7	1256.5	1233.5	1202.8	1169.6	1141.2	1120.1	1097.8	1073.1
25°	1424.1	1403.6	1377.7	1339.1	1309.5	1255.2	1199.8	1146.1	1100.8	1065.8	1024.2
27.5°	1541.2	1497.7	1448.9	1388.6	1334.3	1261.9	1191.3	1129.2	1070.1	1014.0	966.3
30°	1638.9	1563.5	1483.9	1399.4	1322.2	1234.7	1152.7	1082.1	1015.2	948.8	903.6
32.5°	1712.5	1603.9	1497.7	1389.8	1294.5	1191.9	1097.8	1022.4	946.4	876.4	824.0
35°	1778.8	1632.2	1493.5	1363.8	1251.0	1137.6	1036.3	951.8	868.6	793.8	733.5
37.5°	1826.5	1641.9	1475.4	1326.4	1195.5	1071.3	961.5	871.6	782.3	706.3	640.0
40°	1863.3	1637.1	1441.0	1269.1	1119.5	990.4	883.1	789.0	699.7	623.7	554.3
42.5°	1888.0	1619.0	1389.2	1204.0	1056.2	921.1	816.1	717.2	627.9	548.3	471.7
45°	1920.0	1611.7	1357.2	1155.1	998.9	862.6	750.4	653.9	561.0	477.7	404.7
47.5°	1950.1	1607.5	1331.3	1114.7	947.0	809.5	698.5	597.2	503.7	422.2	355.9
50°	1968.2	1600.9	1304.1	1065.8	889.1	755.2	649.0	546.5	452.4	374.6	315.5
52.5°	1973.7	1587.6	1268.5	1010.4	839.0	708.8	598.4	495.8	405.3	335.4	280.5
55°	1969.4	1561.7	1220.3	965.1	787.8	657.5	547.1	447.6	365.5	299.8	255.8
57.5°	1948.9	1509.8	1158.1	907.8	729.3	592.9	484.4	393.3	320.3	267.8	234.0
60°	1903.1	1435.0	1082.1	827.6	645.4	516.3	413.8	335.4	273.9	235.8	213.5
62.5°	1802.9	1327.0	971.7	714.2	533.2	414.4	325.1	267.2	225.6	205.7	192.4
63°	1773.4	1289.6	939.2	684.0	513.9	391.5	305.2	252.7	215.3	199.1	188.2
65°	1617.8	1117.1	793.8	550.1	398.1	296.8	232.8	198.5	178.5	172.5	169.5
67.5°	1325.8	869.2	558.6	369.2	267.2	205.1	171.9	158.6	151.4	150.8	152.6
70°	936.8	576.7	345.6	236.5	184.0	155.0	142.4	136.3	132.7	133.9	137.5
72.5°	609.2	338.4	218.4	173.1	149.6	136.3	127.3	125.5	124.3	123.1	124.3
75°	322.1	211.7	165.3	144.8	130.9	120.0	114.0	111.6	112.2	112.2	112.2
77.5°	199.7	161.1	141.1	127.9	117.0	106.2	100.1	98.3	98.9	100.1	100.7
80°	153.2	140.5	124.3	114.6	98.9	89.9	86.9	86.3	87.5	87.5	89.3
82.5°	112.2	108.6	102.5	90.5	78.4	72.4	71.8	74.2	71.8	71.2	72.4
85°	65.7	61.5	67.0	57.3	52.5	48.9	51.3	56.1	58.5	55.5	54.3
87.5°	21.1	14.5	21.1	23.5	21.1	18.1	22.9	27.1	27.7	26.5	30.2
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: P145934

CATALOG NUMBER: VPL-F04-LED-E1-CPL-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7
2.5°	1009.7	1014.0	1009.7	1011.6	1011.0	1009.7	1011.6	1009.1	1007.9	1011.6	1011.0
5°	1047.7	1048.4	1042.9	1043.5	1042.9	1038.1	1038.1	1035.7	1032.7	1033.3	1032.1
7.5°	1078.5	1077.3	1073.1	1071.3	1065.8	1062.2	1059.8	1056.2	1053.8	1051.4	1050.2
10°	1102.0	1099.0	1096.0	1090.6	1085.1	1082.1	1075.5	1070.1	1068.3	1064.6	1062.2
12.5°	1122.5	1117.1	1112.3	1105.7	1099.0	1094.2	1086.4	1082.1	1079.1	1074.3	1070.7
15°	1134.0	1123.8	1114.7	1104.4	1097.2	1090.0	1080.9	1079.1	1074.9	1070.1	1063.4
17.5°	1120.1	1105.7	1088.8	1077.9	1067.1	1056.2	1047.1	1047.1	1045.3	1039.9	1028.4
20°	1091.8	1070.1	1050.2	1032.7	1021.8	1006.1	1000.7	992.3	986.2	976.6	962.1
22.5°	1045.3	1022.4	996.5	979.0	960.3	942.8	931.9	918.7	913.8	898.2	878.9
25°	993.5	960.3	932.5	909.6	883.7	863.2	848.1	830.0	817.9	802.9	778.7
27.5°	931.9	897.6	866.2	840.9	813.7	785.4	757.6	736.5	714.8	697.3	683.4
30°	865.6	830.0	791.4	761.8	730.5	694.9	672.0	643.6	626.7	607.4	589.3
32.5°	778.7	747.4	702.1	667.7	629.1	601.4	582.7	555.5	535.6	519.4	509.1
35°	683.4	636.4	591.1	565.2	538.7	516.3	490.4	469.3	456.0	439.1	430.1
37.5°	579.7	524.8	486.2	463.3	436.1	425.3	409.0	396.3	384.2	372.8	365.5
40°	486.8	436.1	401.1	381.8	363.7	351.7	341.4	336.0	328.1	319.1	313.7
42.5°	409.6	369.2	334.8	316.7	302.8	301.6	295.0	290.7	287.7	282.3	273.9
45°	349.2	312.5	282.9	268.4	262.4	263.0	263.0	259.4	259.4	257.6	252.1
47.5°	308.8	275.7	253.9	244.3	241.9	242.5	240.7	239.5	240.1	239.5	236.5
50°	277.5	249.1	231.0	227.4	226.8	226.2	223.8	222.0	221.4	222.6	222.0
52.5°	245.5	222.0	211.7	210.5	211.1	211.1	210.5	209.9	211.1	212.3	210.5
55°	227.4	210.5	203.9	203.9	203.9	203.9	203.3	202.7	204.5	206.3	203.3
57.5°	210.5	198.5	196.0	196.0	196.0	194.8	194.8	195.4	197.8	201.5	197.8
60°	197.8	191.8	191.8	192.4	191.8	189.4	187.6	187.6	190.6	195.4	192.4
62.5°	185.8	182.8	184.0	183.4	182.2	179.1	176.7	176.7	180.4	185.2	186.4
63°	182.8	180.4	181.6	181.0	179.8	177.3	174.9	174.9	177.9	182.8	184.6
65°	169.5	170.1	170.7	171.3	170.7	170.1	167.1	165.9	168.3	171.9	174.3
67.5°	153.8	155.0	156.2	159.2	158.0	158.0	156.2	155.0	155.6	157.4	159.2
70°	139.3	140.5	142.4	143.6	144.2	144.8	143.6	141.8	142.4	143.0	144.2
72.5°	125.5	126.7	127.9	130.3	130.3	130.3	129.1	127.9	128.5	129.7	130.9
75°	112.8	113.4	114.6	116.4	117.0	115.8	115.8	114.6	115.2	117.0	118.2
77.5°	100.1	98.9	99.5	100.7	102.5	102.5	103.1	102.5	103.7	105.0	106.2
80°	85.7	84.4	83.2	83.8	86.3	89.3	92.3	92.3	94.1	94.7	96.5
82.5°	68.2	67.0	66.4	68.2	67.6	71.8	78.4	82.0	84.4	86.9	88.1
85°	53.1	50.1	51.3	51.3	50.1	56.7	62.7	67.6	68.2	71.8	72.4
87.5°	31.4	30.2	29.0	27.7	32.0	38.6	44.0	45.8	47.0	48.9	50.7
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: P145934

CATALOG NUMBER: VPL-F04-LED-E1-CPL-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7
2.5°	1006.1	1011.0	1009.7	1009.1	1009.7	1009.1	1007.3	1007.9	1006.7	1007.3	1006.1
5°	1025.4	1027.8	1026.0	1023.0	1023.0	1018.8	1015.8	1013.4	1010.4	1009.1	1006.7
7.5°	1044.1	1042.3	1039.9	1034.5	1031.5	1026.0	1021.8	1017.0	1014.0	1010.4	1006.1
10°	1055.6	1052.0	1047.1	1040.5	1032.1	1027.2	1021.2	1014.0	1010.4	1008.5	1004.3
12.5°	1061.0	1051.4	1043.5	1031.5	1019.4	1010.4	1003.7	996.5	994.7	992.3	989.2
15°	1048.4	1034.5	1014.6	998.3	982.6	969.9	964.5	956.7	954.9	954.3	953.7
17.5°	1005.5	984.4	965.1	943.4	929.5	918.1	913.2	911.4	908.4	907.2	907.8
20°	936.8	918.7	899.4	892.1	875.8	872.8	865.6	860.8	855.3	853.5	850.5
22.5°	856.5	834.2	822.2	816.7	810.1	794.4	790.8	786.0	778.7	773.3	772.1
25°	763.0	744.9	744.3	731.7	726.2	717.8	708.2	702.1	697.9	691.3	686.4
27.5°	667.7	661.1	649.6	640.0	636.4	631.5	617.1	614.1	609.2	603.8	598.4
30°	579.1	574.2	563.4	554.3	548.9	539.3	525.4	526.6	516.9	509.7	504.9
32.5°	492.8	489.2	478.9	476.5	459.0	454.2	439.7	428.9	419.2	412.0	406.0
35°	415.0	405.3	406.0	395.1	385.4	371.0	355.9	342.0	334.2	330.6	325.1
37.5°	358.9	349.9	340.8	328.7	317.9	307.6	298.6	294.4	289.5	290.7	291.3
40°	308.2	301.6	295.0	286.5	279.9	275.7	273.2	273.2	273.9	276.9	279.3
42.5°	272.0	266.6	263.0	260.0	261.2	261.2	263.0	266.0	269.0	273.2	275.7
45°	247.9	244.9	243.7	244.9	248.5	251.5	255.8	260.6	265.4	269.6	271.4
47.5°	233.4	231.6	231.6	234.6	240.1	244.9	251.5	256.4	261.8	265.4	266.6
50°	217.8	217.2	217.2	219.6	224.4	230.4	237.1	241.9	246.7	249.7	250.9
52.5°	208.7	206.9	206.3	209.3	213.5	219.6	226.2	231.0	234.6	237.1	237.7
55°	200.9	199.1	197.8	201.5	206.3	211.7	219.6	225.0	228.6	231.6	234.0
57.5°	194.2	192.4	191.2	195.4	200.3	206.9	213.5	219.6	224.4	228.0	230.4
60°	188.8	186.4	185.2	190.0	194.8	201.5	208.1	214.7	221.4	225.6	226.8
62.5°	182.2	180.4	178.5	181.6	184.0	188.8	194.8	201.5	207.5	211.7	211.7
63°	180.4	179.8	177.3	179.8	182.2	186.4	192.4	198.5	204.5	209.3	208.7
65°	172.5	172.5	171.3	173.7	176.1	180.4	185.2	191.8	197.2	200.9	201.5
67.5°	159.8	160.4	161.7	164.1	168.9	173.1	178.5	184.6	189.4	191.8	193.0
70°	145.4	146.6	149.0	152.6	156.8	160.4	164.1	170.1	174.3	176.7	177.9
72.5°	131.5	134.5	136.3	139.3	141.8	145.4	148.4	154.4	158.0	159.8	162.9
75°	118.8	121.2	122.4	124.3	126.7	127.9	131.5	133.9	138.7	141.1	144.8
77.5°	106.8	108.0	109.8	112.8	113.4	115.2	116.4	120.0	122.4	124.9	127.9
80°	95.9	97.1	99.5	101.3	101.9	103.1	103.7	103.1	102.5	100.7	103.1
82.5°	86.3	87.5	90.5	92.3	94.1	94.1	93.5	86.9	83.8	85.1	86.9
85°	71.2	72.4	75.4	79.0	79.6	79.0	79.6	73.0	68.8	67.0	68.8
87.5°	44.6	43.4	53.7	58.5	54.9	56.1	56.7	53.1	49.5	42.2	44.0
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: P145934
 CATALOG NUMBER: VPL-F04-LED-E1-CPL-7030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	0°
2.5°	1007.3	1003.1	1003.7	1004.9	1004.9	1006.7	1004.3	1001.3	1003.1	1000.1	999.5	2.5°
5°	1006.7	1001.3	1001.3	1002.5	1001.3	1002.5	1000.7	997.7	999.5	995.9	995.3	5°
7.5°	1004.3	1001.3	1002.5	1003.7	1001.9	1002.5	1001.9	997.7	998.3	996.5	992.3	7.5°
10°	1003.1	1001.3	1003.7	1007.3	1007.3	1007.9	1006.1	1001.3	998.3	996.5	992.9	10°
12.5°	990.4	992.9	997.7	1006.1	1009.1	1014.0	1016.4	1014.0	1015.2	1012.8	1011.6	12.5°
15°	954.3	960.3	968.1	980.8	989.8	1000.7	1014.0	1020.0	1031.5	1040.5	1046.5	15°
17.5°	910.8	915.0	923.5	938.0	949.4	971.1	989.2	1009.7	1032.1	1056.2	1077.3	17.5°
20°	857.1	854.1	867.4	883.1	903.0	927.1	953.7	984.4	1021.2	1059.8	1096.6	20°
22.5°	778.1	778.1	792.0	810.7	834.8	862.6	899.4	932.5	980.8	1036.9	1091.2	22.5°
25°	687.6	689.5	699.1	720.2	737.1	776.9	811.3	854.1	912.0	973.6	1045.9	25°
27.5°	591.1	603.2	600.8	623.1	645.4	684.6	731.7	775.1	839.6	905.4	988.0	27.5°
30°	503.7	501.9	501.3	527.8	550.1	585.7	624.3	679.2	744.3	828.8	924.1	30°
32.5°	395.1	401.7	406.6	422.2	446.4	479.5	521.2	578.5	656.9	741.9	849.3	32.5°
35°	326.3	328.1	334.8	343.8	364.9	392.7	436.1	486.8	555.5	643.6	757.6	35°
37.5°	292.5	294.4	301.6	310.0	325.1	345.6	375.2	414.4	477.7	559.8	665.9	37.5°
40°	281.7	283.5	287.7	295.6	309.4	326.9	350.5	380.6	426.5	490.4	583.3	40°
42.5°	276.9	276.9	277.5	283.5	297.4	317.9	343.2	370.4	404.1	452.4	527.8	42.5°
45°	271.4	271.4	270.8	275.1	285.9	309.4	340.2	373.4	410.2	451.8	510.9	45°
47.5°	266.6	265.4	264.2	266.0	275.1	299.2	334.8	375.2	422.2	474.1	533.8	47.5°
50°	249.7	249.7	249.1	249.7	258.2	283.5	324.5	373.4	433.1	500.0	572.4	50°
52.5°	237.7	238.3	238.9	238.9	245.5	271.4	316.7	374.0	445.2	525.4	617.1	52.5°
55°	234.6	235.8	235.8	234.6	240.1	263.6	309.4	372.2	453.6	553.7	664.7	55°
57.5°	231.0	231.6	232.2	231.0	234.6	255.2	299.2	363.7	451.2	564.6	700.3	57.5°
60°	226.2	223.8	223.2	221.4	223.8	240.1	281.1	345.6	436.7	559.8	712.4	60°
62.5°	212.9	211.1	209.3	207.5	209.3	221.4	261.2	323.3	412.6	540.5	702.7	62.5°
63°	209.9	208.7	206.9	205.1	205.1	218.4	254.5	317.9	406.6	535.0	699.1	63°
65°	201.5	200.9	199.7	197.8	197.2	207.5	239.5	293.2	378.2	510.9	676.2	65°
67.5°	191.8	191.8	191.2	188.8	185.8	191.8	214.1	256.4	328.7	448.8	619.5	67.5°
70°	177.9	177.9	177.3	176.1	172.5	176.7	191.2	219.0	270.8	366.7	519.4	70°
72.5°	164.1	164.1	165.9	165.3	165.9	166.5	173.7	188.8	220.2	285.3	392.7	72.5°
75°	146.0	149.0	149.6	150.8	151.4	150.8	154.4	163.5	181.6	219.0	286.5	75°
77.5°	130.9	135.1	134.5	133.3	132.7	133.3	132.7	136.9	150.2	173.7	212.3	77.5°
80°	108.0	112.2	112.2	111.6	110.4	111.6	110.4	114.6	125.5	146.0	168.9	80°
82.5°	88.7	91.7	93.5	94.7	93.5	98.3	98.3	97.1	105.6	123.7	142.4	82.5°
85°	71.2	74.2	76.0	78.4	79.6	78.4	77.8	76.6	81.4	95.9	108.6	85°
87.5°	45.2	47.7	47.7	48.3	48.3	50.1	46.4	42.2	38.6	54.9	57.3	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: P145934

NUMBER: VPL-F04-LED-E1-CPL-7030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
997.7	997.7	997.7	997.7	997.7	997.7	997.7
997.7	997.7	998.3	996.5	998.3	998.3	996.5
993.5	992.3	992.3	991.7	992.9	992.3	991.7
989.8	989.8	987.4	985.6	985.0	987.4	986.2
988.6	987.4	986.8	985.6	986.2	988.0	989.2
1010.4	1006.1	1007.3	1006.7	1007.3	1009.1	1012.8
1050.2	1050.2	1053.2	1046.5	1049.6	1052.6	1057.4
1094.8	1105.7	1111.1	1110.5	1111.7	1114.1	1119.5
1132.8	1167.2	1191.3	1197.3	1213.6	1217.2	1208.8
1149.7	1211.2	1265.5	1301.7	1342.1	1358.4	1363.2
1115.3	1204.0	1293.2	1376.5	1456.1	1502.0	1542.4
1079.7	1184.7	1303.5	1427.8	1557.4	1674.5	1761.9
1030.3	1169.0	1329.4	1497.1	1669.0	1831.9	1977.9
976.0	1143.7	1331.9	1535.7	1748.1	1950.7	2127.5
898.2	1084.5	1293.2	1529.7	1775.8	2029.8	2250.5
808.9	990.4	1224.5	1494.7	1774.0	2070.2	2335.0
713.6	899.4	1145.5	1435.0	1750.5	2082.8	2394.1
641.8	825.8	1067.1	1378.3	1715.5	2074.4	2422.4
605.0	762.4	1003.1	1322.8	1676.3	2053.9	2434.5
612.2	745.5	965.1	1277.0	1641.3	2031.6	2431.5
652.7	770.9	964.5	1260.1	1619.0	2011.1	2423.0
713.6	828.2	999.5	1280.0	1631.0	2009.2	2422.4
782.3	908.4	1083.9	1333.7	1682.3	2041.8	2436.9
848.7	1006.1	1192.5	1453.7	1779.4	2123.2	2495.4
887.9	1095.4	1331.9	1623.2	1929.0	2266.2	2623.9
897.0	1149.1	1455.5	1789.7	2134.1	2473.1	2824.2
896.3	1154.5	1476.6	1824.1	2175.7	2520.8	2875.4
882.5	1165.4	1533.3	1937.5	2342.8	2725.2	3089.6
839.0	1146.1	1564.7	2043.0	2508.7	2950.8	3411.7
739.5	1058.0	1527.9	2077.4	2607.6	3100.4	3626.4
579.1	872.8	1319.2	1898.9	2473.7	2966.5	3631.8
407.2	617.1	1015.2	1559.3	2021.9	2506.9	3244.0
283.5	399.9	659.3	1049.0	1459.1	1828.9	2411.6
207.5	266.0	395.1	627.3	885.5	1143.1	1496.5
159.8	191.8	252.7	378.8	500.0	640.0	902.4
112.2	126.7	156.2	234.0	335.4	457.8	661.1
48.9	57.3	75.4	138.1	226.8	218.4	208.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)