

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: P146220

Luminaire Tested: **VPL-E03-LED-E1-CPR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146220
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-E03-LED-E1-CPR
Description: VALET LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER RIGHT
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8080.3 lumens
Efficiency: N/A
Efficacy: 107.5 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

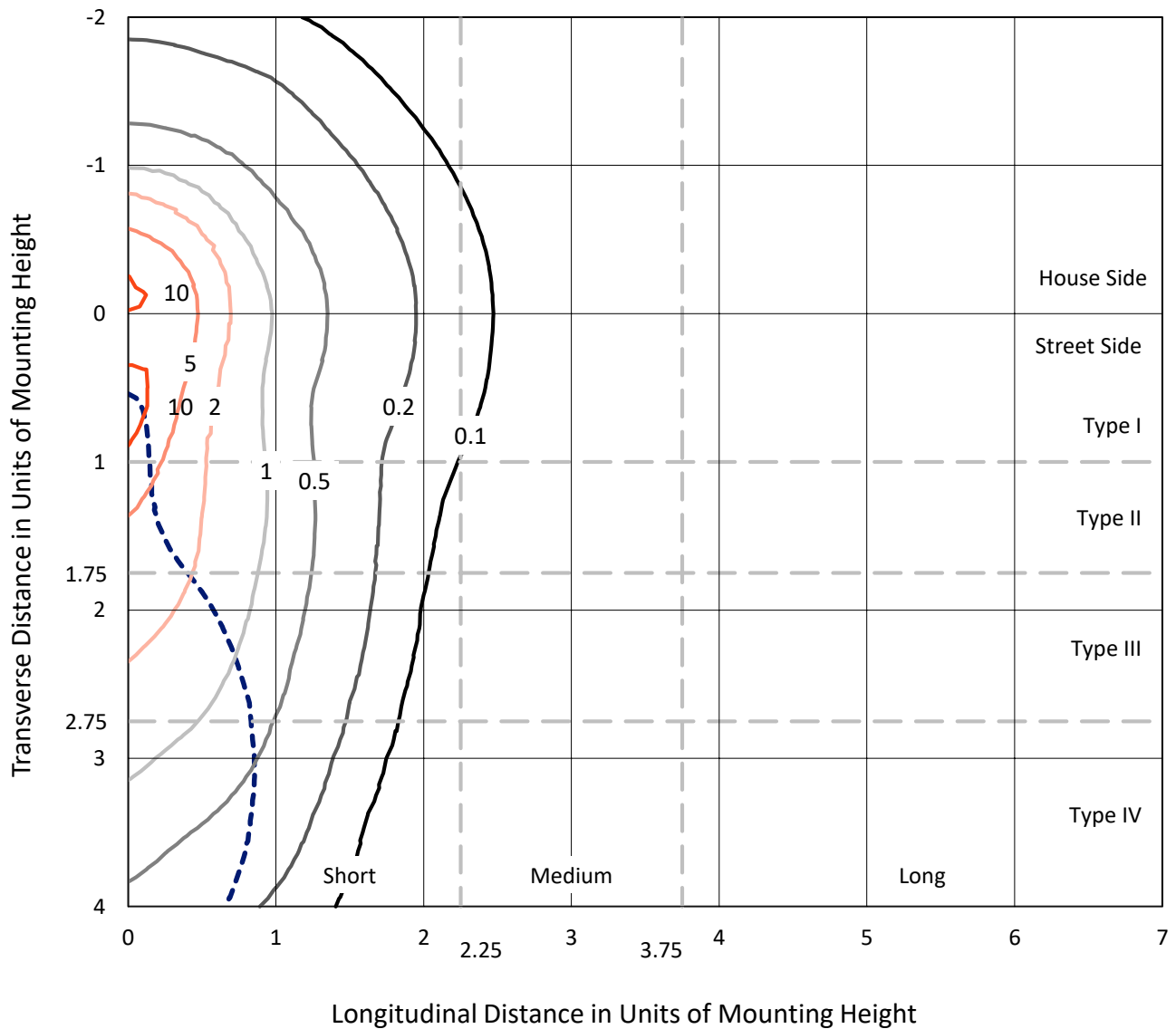
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

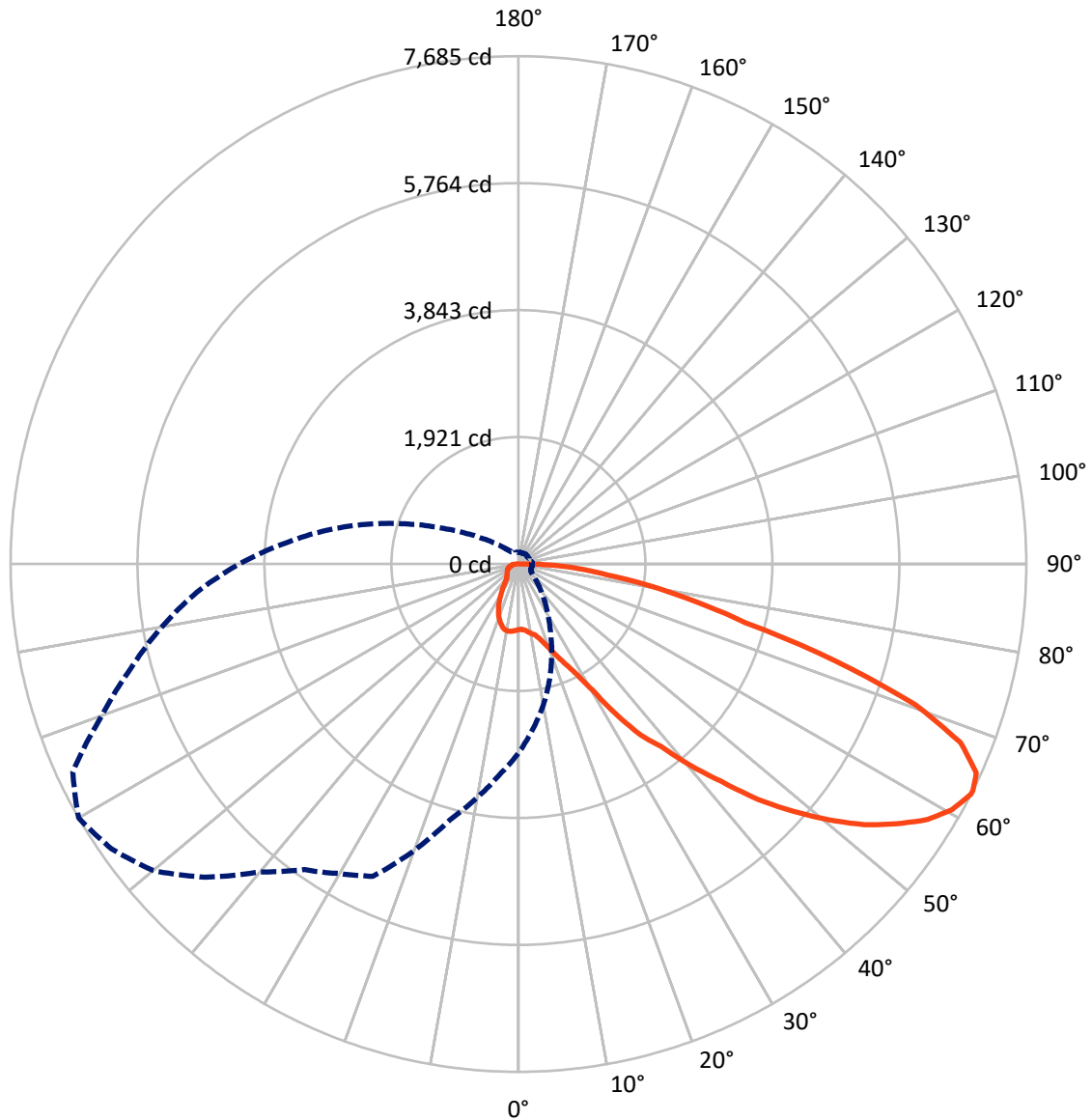
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.7 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1691.4	0.0	1691.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	6388.9	0.0	6388.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	8080.3	0.0	8080.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	97.5	1.2
10°-20°	304.2	3.8
20°-30°	537.9	6.7
30°-40°	849.3	10.5
40°-50°	1248.8	15.5
50°-60°	1645.1	20.4
60°-70°	1833.6	22.7
70°-80°	1204.7	14.9
80°-90°	359.3	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°	8080.3	100.0
0°-180°	8080.3	100.0

Coefficient of Utilization



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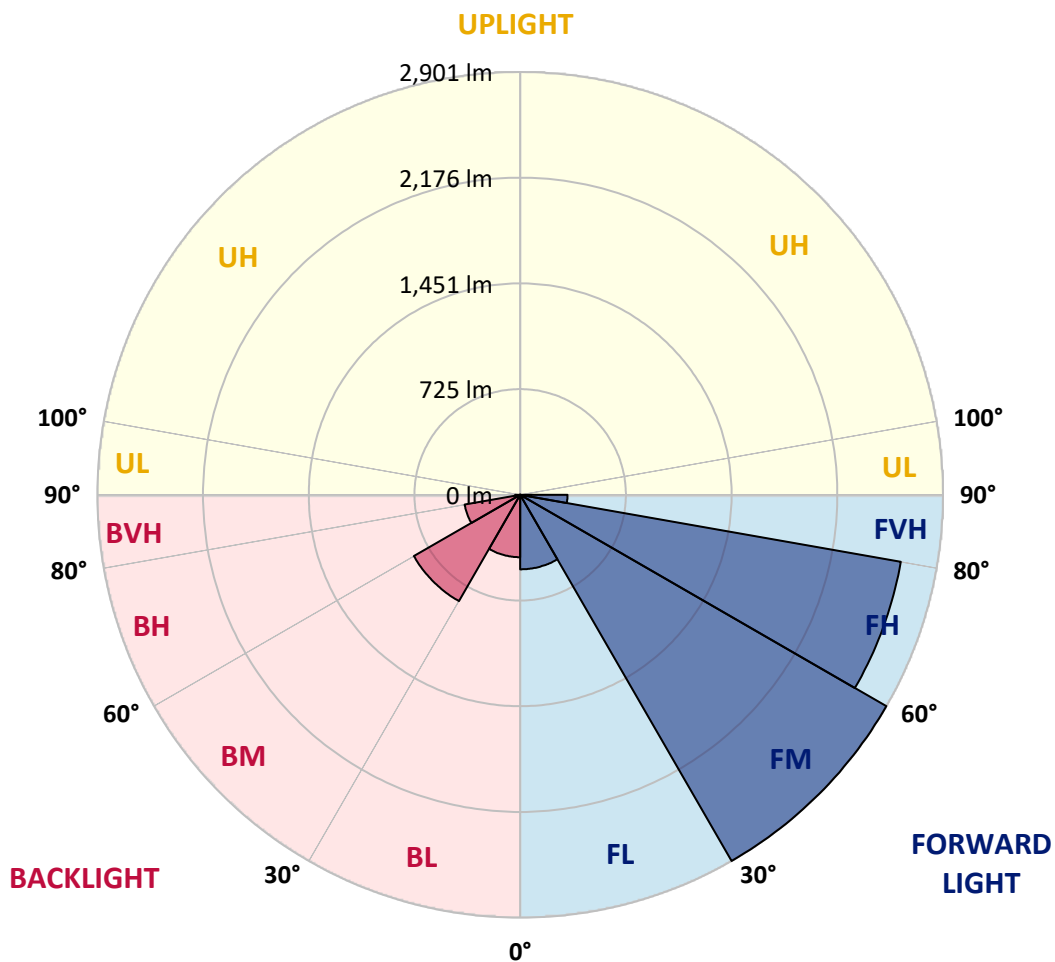
CATALOG NUMBER: VPL-E03-LED-E1-CPR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	511.4	6.3			
FM	(30°-60°)	2901.0	35.9			
FH	(60°-80°)	2651.7	32.8			G2/5000
FVH	(80°-90°)	324.7	4.0			G3/500
BL	(0°-30°)	428.2	5.3	B1/500		
BM	(30°-60°)	842.1	10.4	B1/1000		
BH	(60°-80°)	386.6	4.8	B1/500		G1/500
BVH	(80°-90°)	34.6	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4
2.5°	991.2	993.0	993.0	991.2	993.0	992.4	992.4	994.2	994.8	997.8	996.0
5°	986.4	987.0	987.6	986.4	987.0	987.0	988.2	990.0	990.6	994.2	992.4
7.5°	981.0	982.2	979.8	980.4	982.2	984.6	984.6	987.0	991.2	993.0	992.4
10°	984.0	982.8	981.0	980.4	981.6	982.2	983.4	987.6	991.2	993.0	996.0
12.5°	1007.4	1003.8	1002.0	1001.4	1002.0	1000.8	1005.0	1006.2	1007.4	1009.8	1008.6
15°	1051.8	1047.0	1044.0	1041.0	1047.6	1044.6	1044.6	1041.0	1035.0	1026.0	1014.6
17.5°	1113.6	1108.2	1105.8	1104.6	1105.2	1099.8	1089.0	1071.6	1050.6	1026.6	1004.4
20°	1202.4	1210.8	1207.2	1191.0	1185.0	1161.0	1126.8	1090.8	1054.2	1015.8	979.2
22.5°	1356.0	1351.2	1335.0	1294.8	1258.8	1204.8	1143.6	1085.4	1031.4	975.6	927.6
25°	1534.2	1494.0	1448.4	1369.2	1286.4	1197.6	1109.4	1040.4	968.4	907.2	849.6
27.5°	1752.6	1665.6	1549.2	1420.2	1296.6	1178.4	1074.0	982.8	900.6	835.2	771.0
30°	1967.4	1822.2	1660.2	1489.2	1322.4	1162.8	1024.8	919.2	824.4	740.4	675.6
32.5°	2116.2	1940.4	1738.8	1527.6	1324.8	1137.6	970.8	844.8	738.0	653.4	575.4
35°	2238.6	2019.0	1766.4	1521.6	1286.4	1078.8	893.4	753.6	640.2	552.6	484.2
37.5°	2322.6	2059.2	1764.6	1486.8	1218.0	985.2	804.6	662.4	556.8	475.2	412.2
40°	2381.4	2071.8	1741.2	1427.4	1139.4	894.6	709.8	580.2	487.8	424.2	378.6
42.5°	2409.6	2063.4	1706.4	1371.0	1061.4	821.4	638.4	525.0	450.0	402.0	368.4
45°	2421.6	2043.0	1667.4	1315.8	997.8	758.4	601.8	508.2	449.4	408.0	371.4
47.5°	2418.6	2020.8	1632.6	1270.2	960.0	741.6	609.0	531.0	471.6	420.0	373.2
50°	2410.2	2000.4	1610.4	1253.4	959.4	766.8	649.2	569.4	497.4	430.8	371.4
52.5°	2409.6	1998.6	1622.4	1273.2	994.2	823.8	709.8	613.8	522.6	442.8	372.0
55°	2424.0	2031.0	1673.4	1326.6	1078.2	903.6	778.2	661.2	550.8	451.2	370.2
57.5°	2482.2	2112.0	1770.0	1446.0	1186.2	1000.8	844.2	696.6	561.6	448.8	361.8
60°	2610.0	2254.2	1918.8	1614.6	1324.8	1089.6	883.2	708.6	556.8	434.4	343.8
62.5°	2809.2	2460.0	2122.8	1780.2	1447.8	1143.0	892.2	699.0	537.6	410.4	321.6
63°	2860.2	2507.4	2164.2	1814.4	1468.8	1148.4	891.6	695.4	532.2	404.4	316.2
65°	3073.2	2710.8	2330.4	1927.2	1525.2	1159.2	877.8	672.6	508.2	376.2	291.6
67.5°	3393.6	2935.2	2495.4	2032.2	1556.4	1140.0	834.6	616.2	446.4	327.0	255.0
70°	3607.2	3084.0	2593.8	2066.4	1519.8	1052.4	735.6	516.6	364.8	269.4	217.8
72.5°	3612.6	2950.8	2460.6	1888.8	1312.2	868.2	576.0	390.6	283.8	219.0	187.8
75°	3226.8	2493.6	2011.2	1551.0	1009.8	613.8	405.0	285.0	217.8	180.6	162.6
77.5°	2398.8	1819.2	1451.4	1043.4	655.8	397.8	282.0	211.2	172.8	149.4	136.2
80°	1488.6	1137.0	880.8	624.0	393.0	264.6	206.4	168.0	145.2	124.8	114.0
82.5°	897.6	636.6	497.4	376.8	251.4	190.8	159.0	141.6	123.0	105.0	96.6
85°	657.6	455.4	333.6	232.8	155.4	126.0	111.6	108.0	95.4	81.0	76.2
87.5°	207.0	217.2	225.6	137.4	75.0	57.0	48.6	57.0	54.6	38.4	42.0
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°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4
2.5°	999.0	1001.4	999.6	999.6	998.4	997.8	1002.0	1000.8	1002.0	1001.4	1002.6
5°	995.4	997.2	996.0	997.2	996.0	996.0	1001.4	1001.4	1003.8	1005.0	1008.0
7.5°	996.6	997.2	996.6	998.4	997.2	996.0	999.0	1000.8	1005.0	1008.6	1011.6
10°	1000.8	1002.6	1002.0	1002.0	998.4	996.0	997.8	999.0	1003.2	1005.0	1008.6
12.5°	1011.0	1008.6	1003.8	1000.8	992.4	987.6	985.2	984.0	987.0	989.4	991.2
15°	1008.6	995.4	984.6	975.6	963.0	955.2	949.2	948.6	949.2	949.8	951.6
17.5°	984.0	966.0	944.4	933.0	918.6	910.2	906.0	903.0	902.4	903.6	906.6
20°	948.6	922.2	898.2	878.4	862.8	849.6	852.6	846.0	849.0	850.8	856.2
22.5°	894.6	858.0	830.4	806.4	787.8	774.0	774.0	768.0	769.2	774.6	781.8
25°	807.0	772.8	733.2	716.4	695.4	685.8	684.0	682.8	687.6	694.2	698.4
27.5°	727.8	681.0	642.0	619.8	597.6	600.0	588.0	595.2	600.6	606.0	610.8
30°	621.0	582.6	547.2	525.0	498.6	499.2	501.0	502.2	507.0	514.2	523.8
32.5°	518.4	477.0	444.0	420.0	404.4	399.6	393.0	403.8	409.8	417.0	426.6
35°	433.8	390.6	363.0	342.0	333.0	326.4	324.6	323.4	328.8	332.4	340.2
37.5°	373.2	343.8	323.4	308.4	300.0	292.8	291.0	289.8	289.2	288.0	292.8
40°	348.6	325.2	307.8	294.0	286.2	282.0	280.2	277.8	275.4	272.4	271.8
42.5°	341.4	316.2	295.8	282.0	276.0	275.4	275.4	274.2	271.8	267.6	264.6
45°	338.4	307.8	284.4	273.6	269.4	270.0	270.0	270.0	268.2	264.0	259.2
47.5°	333.0	297.6	273.6	264.6	262.8	264.0	265.2	265.2	264.0	260.4	255.0
50°	322.8	282.0	256.8	248.4	247.8	248.4	248.4	249.6	248.4	245.4	240.6
52.5°	315.0	270.0	244.2	237.6	237.6	237.0	236.4	236.4	235.8	233.4	229.8
55°	307.8	262.2	238.8	233.4	234.6	234.6	233.4	232.8	230.4	227.4	223.8
57.5°	297.6	253.8	233.4	229.8	231.0	230.4	229.8	229.2	226.8	223.2	218.4
60°	279.6	238.8	222.6	220.2	222.0	222.6	225.0	225.6	224.4	220.2	213.6
62.5°	259.8	220.2	208.2	206.4	208.2	210.0	211.8	210.6	210.6	206.4	200.4
63°	253.2	217.2	204.0	204.0	205.8	207.6	208.8	207.6	208.2	203.4	197.4
65°	238.2	206.4	196.2	196.8	198.6	199.8	200.4	200.4	199.8	196.2	190.8
67.5°	213.0	190.8	184.8	187.8	190.2	190.8	190.8	192.0	190.8	188.4	183.6
70°	190.2	175.8	171.6	175.2	176.4	177.0	177.0	177.0	175.8	173.4	169.2
72.5°	172.8	165.6	165.0	164.4	165.0	163.2	163.2	162.0	159.0	157.2	153.6
75°	153.6	150.0	150.6	150.0	148.8	148.2	145.2	144.0	140.4	138.0	133.2
77.5°	132.0	132.6	132.0	132.6	133.8	134.4	130.2	127.2	124.2	121.8	119.4
80°	109.8	111.0	109.8	111.0	111.6	111.6	107.4	102.6	100.2	102.0	102.6
82.5°	97.8	97.8	93.0	94.2	93.0	91.2	88.2	86.4	84.6	83.4	86.4
85°	77.4	78.0	79.2	78.0	75.6	73.8	70.8	68.4	66.6	68.4	72.6
87.5°	46.2	49.8	48.0	48.0	47.4	47.4	45.0	43.8	42.0	49.2	52.8
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°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4
2.5°	1002.0	1003.8	1004.4	1003.8	1004.4	1005.6	1000.8	1005.6	1006.2	1002.6	1003.8
5°	1010.4	1013.4	1017.6	1017.6	1020.6	1022.4	1020.0	1026.6	1027.8	1027.2	1030.2
7.5°	1016.4	1020.6	1026.0	1029.0	1034.4	1036.8	1038.6	1044.6	1045.8	1048.2	1050.6
10°	1015.8	1021.8	1026.6	1035.0	1041.6	1046.4	1050.0	1056.6	1059.0	1062.6	1064.4
12.5°	998.4	1005.0	1014.0	1026.0	1038.0	1045.8	1055.4	1065.0	1068.6	1073.4	1076.4
15°	959.4	964.8	977.4	993.0	1009.2	1029.0	1042.8	1057.8	1064.4	1069.2	1073.4
17.5°	908.4	913.2	924.6	938.4	960.0	979.2	1000.2	1023.0	1034.4	1039.8	1041.6
20°	861.0	868.2	871.2	887.4	894.6	913.8	931.8	957.0	971.4	981.0	987.0
22.5°	786.6	790.2	805.8	812.4	817.8	829.8	852.0	874.2	893.4	909.0	913.8
25°	704.4	714.0	722.4	727.8	740.4	741.0	759.0	774.6	798.6	813.6	825.6
27.5°	613.8	628.2	633.0	636.6	646.2	657.6	664.2	679.8	693.6	711.0	732.6
30°	522.6	536.4	546.0	551.4	560.4	571.2	576.0	586.2	604.2	623.4	640.2
32.5°	437.4	451.8	456.6	474.0	476.4	486.6	490.2	506.4	516.6	532.8	552.6
35°	354.0	369.0	383.4	393.0	403.8	403.2	412.8	427.8	436.8	453.6	466.8
37.5°	297.0	306.0	316.2	327.0	339.0	348.0	357.0	363.6	370.8	382.2	394.2
40°	271.8	274.2	278.4	285.0	293.4	300.0	306.6	312.0	317.4	326.4	334.2
42.5°	261.6	259.8	259.8	258.6	261.6	265.2	270.6	272.4	280.8	286.2	289.2
45°	254.4	250.2	247.2	243.6	242.4	243.6	246.6	250.8	256.2	258.0	258.0
47.5°	250.2	243.6	238.8	233.4	230.4	230.4	232.2	235.2	238.2	238.8	238.2
50°	235.8	229.2	223.2	218.4	216.0	216.0	216.6	220.8	221.4	220.2	220.8
52.5°	225.0	218.4	212.4	208.2	205.2	205.8	207.6	209.4	211.2	210.0	208.8
55°	218.4	210.6	205.2	200.4	196.8	198.0	199.8	202.2	205.2	203.4	201.6
57.5°	212.4	205.8	199.2	194.4	190.2	191.4	193.2	196.8	200.4	196.8	194.4
60°	207.0	200.4	193.8	189.0	184.2	185.4	187.8	191.4	194.4	189.6	186.6
62.5°	193.8	187.8	183.0	180.6	177.6	179.4	181.2	185.4	184.2	179.4	175.8
63°	191.4	185.4	181.2	178.8	176.4	178.8	179.4	183.6	181.8	177.0	174.0
65°	184.2	179.4	175.2	172.8	170.4	171.6	171.6	173.4	171.0	167.4	165.0
67.5°	177.6	172.2	168.0	163.2	160.8	159.6	159.0	158.4	156.6	154.8	154.2
70°	163.2	159.6	156.0	151.8	148.2	145.8	144.6	143.4	142.2	141.6	141.0
72.5°	147.6	144.6	141.0	138.6	135.6	133.8	130.8	130.2	129.0	127.8	127.2
75°	130.8	127.2	126.0	123.6	121.8	120.6	118.2	117.6	116.4	114.6	114.0
77.5°	115.8	114.6	112.8	112.2	109.2	107.4	106.2	105.6	104.4	103.2	102.0
80°	103.2	102.6	101.4	100.8	99.0	96.6	95.4	96.0	94.2	93.6	91.8
82.5°	93.0	93.6	93.6	91.8	90.0	87.0	85.8	87.6	86.4	84.0	81.6
85°	79.2	78.6	79.2	78.6	75.0	72.0	70.8	72.0	71.4	67.8	67.2
87.5°	56.4	55.8	54.6	58.2	53.4	43.2	44.4	50.4	48.6	46.8	45.6
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4
2.5°	1006.2	1004.4	1005.6	1006.2	1004.4	1008.6	1004.4	1005.0	1006.2	1002.6	1002.0
5°	1032.6	1032.6	1037.4	1038.0	1037.4	1042.8	1042.2	1042.8	1041.6	1041.0	1038.6
7.5°	1054.2	1056.6	1060.2	1065.6	1067.4	1071.6	1072.8	1073.4	1075.8	1078.2	1077.0
10°	1069.8	1076.4	1079.4	1084.8	1090.2	1093.2	1096.2	1101.0	1102.8	1104.6	1102.2
12.5°	1080.6	1088.4	1093.2	1099.8	1106.4	1111.2	1116.6	1122.6	1128.6	1130.4	1127.4
15°	1075.2	1084.2	1091.4	1098.6	1108.8	1117.8	1128.0	1138.8	1146.6	1149.6	1146.0
17.5°	1041.6	1050.6	1061.4	1072.2	1083.0	1099.8	1114.2	1132.2	1144.8	1153.8	1155.0
20°	995.4	1000.8	1016.4	1027.2	1044.6	1064.4	1086.0	1107.0	1121.4	1137.6	1147.2
22.5°	927.0	937.8	955.2	973.8	991.2	1017.0	1039.8	1067.4	1092.0	1114.2	1135.2
25°	843.6	858.6	879.0	904.8	927.6	955.2	988.2	1018.8	1060.2	1095.0	1140.0
27.5°	753.6	781.2	809.4	836.4	861.6	892.8	927.0	961.2	1008.6	1064.4	1123.2
30°	668.4	691.2	726.6	757.8	787.2	825.6	861.0	898.8	943.8	1009.8	1076.4
32.5°	579.6	598.2	625.8	664.2	698.4	743.4	774.6	819.6	871.8	941.4	1017.0
35°	487.8	513.6	535.8	562.2	588.0	633.0	679.8	729.6	789.6	864.0	946.8
37.5°	406.8	423.0	433.8	460.8	483.6	522.0	576.6	636.6	702.6	778.2	867.0
40°	339.6	349.8	361.8	379.8	399.0	433.8	484.2	551.4	620.4	696.0	784.8
42.5°	293.4	300.0	301.2	315.0	333.0	367.2	407.4	469.2	545.4	624.6	713.4
45°	261.6	261.6	261.0	267.0	281.4	310.8	347.4	402.6	475.2	558.0	650.4
47.5°	239.4	241.2	240.6	243.0	252.6	274.2	307.2	354.0	420.0	501.0	594.0
50°	222.6	225.0	225.6	226.2	229.8	247.8	276.0	313.8	372.6	450.0	543.6
52.5°	209.4	210.0	210.0	209.4	210.6	220.8	244.2	279.0	333.6	403.2	493.2
55°	202.2	202.8	202.8	202.8	202.8	209.4	226.2	254.4	298.2	363.6	445.2
57.5°	193.8	193.8	195.0	195.0	195.0	197.4	209.4	232.8	266.4	318.6	391.2
60°	186.6	188.4	190.8	191.4	190.8	190.8	196.8	212.4	234.6	272.4	333.6
62.5°	175.8	178.2	181.2	182.4	183.0	181.8	184.8	191.4	204.6	224.4	265.8
63°	174.0	176.4	178.8	180.0	180.6	179.4	181.8	187.2	198.0	214.2	251.4
65°	166.2	169.2	169.8	170.4	169.8	169.2	168.6	168.6	171.6	177.6	197.4
67.5°	155.4	157.2	157.2	158.4	155.4	154.2	153.0	151.8	150.0	150.6	157.8
70°	142.8	144.0	143.4	142.8	141.6	139.8	138.6	136.8	133.2	132.0	135.6
72.5°	128.4	129.6	129.6	129.6	127.2	126.0	124.8	123.6	122.4	123.6	124.8
75°	115.2	115.2	116.4	115.8	114.0	112.8	112.2	111.6	111.6	111.6	111.0
77.5°	102.6	102.0	102.0	100.2	99.0	98.4	99.6	100.2	99.6	98.4	97.8
80°	91.8	88.8	85.8	83.4	82.8	84.0	85.2	88.8	87.0	87.0	85.8
82.5°	78.0	71.4	67.2	67.8	66.0	66.6	67.8	72.0	70.8	71.4	73.8
85°	62.4	56.4	49.8	51.0	51.0	49.8	52.8	54.0	55.2	58.2	55.8
87.5°	43.8	38.4	31.8	27.6	28.8	30.0	31.2	30.0	26.4	27.6	27.0
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4
2.5°	1000.8	1001.4	1001.4	997.2	996.0	997.2	996.6	996.6	993.0	993.6	992.4
5°	1037.4	1038.6	1035.0	1032.0	1027.8	1027.2	1026.6	1024.2	1021.8	1017.0	1014.6
7.5°	1076.4	1071.0	1069.8	1064.4	1062.6	1057.8	1054.2	1050.6	1047.6	1045.2	1043.4
10°	1101.0	1096.8	1095.6	1086.0	1083.0	1077.0	1073.4	1069.2	1065.6	1062.0	1061.4
12.5°	1123.2	1116.0	1111.8	1098.6	1092.6	1086.0	1083.0	1079.4	1078.2	1077.6	1080.0
15°	1140.6	1130.4	1122.6	1110.6	1105.8	1102.2	1102.8	1101.0	1108.2	1112.4	1120.2
17.5°	1152.0	1147.8	1146.0	1137.0	1140.0	1140.0	1148.4	1152.6	1165.8	1176.6	1187.4
20°	1158.0	1165.8	1180.8	1183.8	1191.0	1198.8	1211.4	1218.6	1232.4	1248.0	1263.0
22.5°	1163.4	1196.4	1227.0	1249.8	1266.0	1284.0	1293.0	1308.0	1317.6	1329.0	1351.8
25°	1193.4	1248.6	1302.6	1332.0	1370.4	1396.2	1416.6	1431.6	1448.4	1458.0	1483.8
27.5°	1185.0	1255.2	1327.2	1381.2	1441.2	1489.8	1533.0	1561.8	1583.4	1618.2	1639.8
30°	1146.6	1228.2	1315.2	1392.0	1476.0	1555.2	1630.2	1697.4	1755.0	1801.8	1833.6
32.5°	1092.0	1185.6	1287.6	1382.4	1489.8	1595.4	1703.4	1806.0	1903.8	1981.2	2029.8
35°	1030.8	1131.6	1244.4	1356.6	1485.6	1623.6	1769.4	1907.4	2049.0	2172.6	2269.8
37.5°	956.4	1065.6	1189.2	1319.4	1467.6	1633.2	1816.8	2004.6	2185.2	2372.4	2509.2
40°	878.4	985.2	1113.6	1262.4	1433.4	1628.4	1853.4	2097.0	2358.6	2599.8	2808.0
42.5°	811.8	916.2	1050.6	1197.6	1381.8	1610.4	1878.0	2179.8	2502.0	2814.6	3091.2
45°	746.4	858.0	993.6	1149.0	1350.0	1603.2	1909.8	2251.8	2619.6	2990.4	3343.2
47.5°	694.8	805.2	942.0	1108.8	1324.2	1599.0	1939.8	2319.0	2715.6	3121.2	3539.4
50°	645.6	751.2	884.4	1060.2	1297.2	1592.4	1957.8	2372.4	2790.6	3223.8	3678.6
52.5°	595.2	705.0	834.6	1005.0	1261.8	1579.2	1963.2	2414.4	2868.0	3322.2	3808.8
55°	544.2	654.0	783.6	960.0	1213.8	1553.4	1959.0	2445.0	2949.0	3426.0	3927.6
57.5°	481.8	589.8	725.4	903.0	1152.0	1501.8	1938.6	2458.2	2999.4	3523.2	4047.0
60°	411.6	513.6	642.0	823.2	1076.4	1427.4	1893.0	2439.6	3022.2	3587.4	4173.6
62.5°	323.4	412.2	530.4	710.4	966.6	1320.0	1793.4	2357.4	2967.0	3571.2	4228.2
63°	303.6	389.4	511.2	680.4	934.2	1282.8	1764.0	2329.2	2942.4	3556.2	4221.6
65°	231.6	295.2	396.0	547.2	789.6	1111.2	1609.2	2169.6	2787.6	3406.8	4117.8
67.5°	171.0	204.0	265.8	367.2	555.6	864.6	1318.8	1873.8	2458.8	3040.8	3764.4
70°	141.6	154.2	183.0	235.2	343.8	573.6	931.8	1426.2	1976.4	2477.4	3130.8
72.5°	126.6	135.6	148.8	172.2	217.2	336.6	606.0	925.8	1376.4	1809.6	2361.6
75°	113.4	119.4	130.2	144.0	164.4	210.6	320.4	549.0	841.2	1219.2	1620.0
77.5°	99.6	105.6	116.4	127.2	140.4	160.2	198.6	312.6	503.4	711.6	994.2
80°	86.4	89.4	98.4	114.0	123.6	139.8	152.4	195.6	274.2	372.6	529.8
82.5°	71.4	72.0	78.0	90.0	102.0	108.0	111.6	123.0	157.8	196.8	259.8
85°	51.0	48.6	52.2	57.0	66.6	61.2	65.4	69.0	84.0	101.4	186.0
87.5°	22.8	18.0	21.0	23.4	21.0	14.4	21.0	17.4	21.6	42.6	48.0
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	992.4	0°
2.5°	993.6	990.0	990.0	989.4	990.0	988.8	986.4	986.4	988.2	987.6	987.6	2.5°
5°	1014.6	1009.8	1008.6	1008.0	1008.0	1005.0	1001.4	999.6	999.0	996.6	994.8	5°
7.5°	1042.2	1039.2	1041.0	1037.4	1036.2	1035.6	1030.8	1027.2	1021.8	1019.4	1010.4	7.5°
10°	1065.0	1063.2	1068.0	1067.4	1068.0	1068.0	1061.4	1057.8	1050.0	1045.8	1034.4	10°
12.5°	1084.8	1086.0	1095.0	1095.0	1096.8	1099.2	1095.6	1087.8	1084.8	1080.6	1068.6	12.5°
15°	1135.2	1140.0	1146.6	1157.4	1160.4	1161.0	1164.0	1157.4	1149.6	1138.8	1124.4	15°
17.5°	1203.6	1213.2	1235.4	1251.0	1254.0	1257.0	1255.2	1254.0	1239.6	1230.6	1215.6	17.5°
20°	1289.4	1312.8	1344.0	1365.6	1375.2	1376.4	1388.4	1380.0	1366.8	1348.8	1327.2	20°
22.5°	1385.4	1424.4	1464.0	1495.8	1514.4	1522.8	1535.4	1523.4	1506.0	1495.2	1466.4	22.5°
25°	1516.8	1559.4	1605.0	1630.2	1677.6	1691.4	1698.6	1695.0	1677.0	1684.8	1658.4	25°
27.5°	1696.8	1733.4	1797.6	1829.4	1873.8	1899.6	1894.2	1924.2	1929.6	1948.2	1951.2	27.5°
30°	1893.0	1953.6	2040.0	2104.2	2172.0	2215.8	2250.6	2277.0	2307.6	2359.2	2390.4	30°
32.5°	2104.8	2192.4	2302.8	2439.0	2583.0	2700.6	2833.2	2856.0	2924.4	2904.6	2891.4	32.5°
35°	2340.6	2451.0	2592.6	2771.4	2980.8	3175.2	3303.0	3367.2	3394.2	3409.2	3318.0	35°
37.5°	2656.2	2805.6	2963.4	3158.4	3318.6	3500.4	3647.4	3807.0	3880.2	3845.4	3670.8	37.5°
40°	3006.0	3145.8	3359.4	3519.0	3708.0	4007.4	4206.6	4398.6	4458.6	4342.8	4069.2	40°
42.5°	3357.0	3549.0	3780.6	4007.4	4224.6	4495.8	4759.8	4949.4	5015.4	4817.4	4492.8	42.5°
45°	3669.6	3915.6	4188.0	4420.8	4724.4	5079.0	5402.4	5554.8	5542.8	5224.8	4859.4	45°
47.5°	3942.0	4261.2	4568.4	4882.2	5188.2	5588.4	5908.8	6084.0	5959.8	5625.6	5211.6	47.5°
50°	4167.0	4552.8	4923.6	5284.2	5659.8	6085.2	6394.2	6556.2	6367.2	5944.2	5481.6	50°
52.5°	4338.0	4816.2	5243.4	5646.6	6095.4	6555.0	6829.8	6927.6	6633.0	6190.8	5683.8	52.5°
55°	4499.4	5040.0	5512.8	5970.6	6529.2	6941.4	7198.8	7180.8	6800.4	6298.2	5810.4	55°
57.5°	4621.2	5230.8	5734.2	6255.6	6857.4	7297.8	7446.6	7327.8	6870.0	6330.0	5847.0	57.5°
60°	4774.8	5379.6	5931.0	6513.0	7169.4	7542.0	7561.8	7348.8	6850.2	6270.0	5795.4	60°
62.5°	4873.2	5472.6	6056.4	6689.4	7407.0	7679.4	7537.8	7258.2	6736.2	6121.8	5677.2	62.5°
63°	4882.8	5481.6	6066.6	6706.8	7440.6	7685.4	7515.6	7217.4	6702.6	6081.0	5646.0	63°
65°	4839.6	5455.8	6019.8	6675.6	7449.0	7614.6	7353.0	7050.0	6517.2	5872.8	5462.4	65°
67.5°	4537.8	5178.6	5716.8	6331.8	7125.0	7216.8	6954.6	6625.2	6124.8	5424.0	5061.0	67.5°
70°	3997.2	4606.2	4987.8	5559.0	6256.8	6366.6	6132.0	5877.0	5432.4	4846.8	4545.6	70°
72.5°	3220.2	3818.4	4047.6	4485.0	5039.4	5015.4	4850.4	4818.6	4584.6	4093.2	3912.0	72.5°
75°	2407.2	2976.6	3073.2	3251.4	3561.0	3553.2	3591.6	3728.4	3845.4	3555.0	3322.8	75°
77.5°	1587.6	2154.0	2214.0	2421.6	2507.4	2742.6	3018.6	3362.4	3532.8	3414.0	3129.0	77.5°
80°	878.4	1473.6	1461.6	1542.6	1694.4	2036.4	2454.6	2965.2	3306.0	3220.8	2908.8	80°
82.5°	456.6	931.2	917.4	931.8	1072.8	1360.2	1678.2	2095.8	2448.0	2455.8	2350.8	82.5°
85°	339.6	668.4	708.0	740.4	834.0	934.2	992.4	1126.2	1319.4	1499.4	1563.6	85°
87.5°	124.8	401.4	499.8	537.0	539.4	526.8	429.0	472.2	429.6	508.2	709.8	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°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
992.4	992.4	992.4	992.4	992.4	992.4	992.4
988.8	988.8	988.2	989.4	990.0	991.8	991.2
993.0	991.2	989.4	988.2	987.0	987.6	986.4
1003.8	997.8	993.0	988.8	985.2	984.6	981.0
1027.8	1017.0	1008.0	1001.4	994.2	990.6	984.0
1058.4	1046.4	1035.0	1025.4	1017.0	1012.2	1007.4
1111.8	1094.4	1080.6	1070.4	1062.0	1056.6	1051.8
1191.0	1169.4	1148.4	1128.6	1126.2	1113.6	1113.6
1300.2	1270.8	1243.8	1227.0	1219.2	1202.4	1202.4
1451.4	1422.6	1382.4	1362.0	1363.8	1349.4	1356.0
1647.0	1623.0	1581.6	1573.2	1573.2	1557.6	1534.2
1940.4	1932.0	1886.4	1897.8	1873.8	1815.6	1752.6
2376.0	2376.0	2287.8	2224.2	2169.0	2078.4	1967.4
2812.2	2755.2	2620.2	2512.2	2397.6	2259.0	2116.2
3180.6	3028.8	2892.0	2760.0	2587.8	2439.0	2238.6
3491.4	3347.4	3190.8	2989.8	2787.6	2580.0	2322.6
3876.6	3701.4	3466.2	3213.6	2965.2	2679.6	2381.4
4228.8	4009.2	3712.2	3392.4	3076.2	2757.6	2409.6
4560.0	4276.8	3910.2	3526.2	3166.2	2805.6	2421.6
4872.0	4492.2	4065.6	3621.6	3228.0	2831.4	2418.6
5077.8	4650.0	4163.4	3679.2	3265.2	2840.4	2410.2
5206.8	4746.6	4221.0	3711.0	3283.8	2842.2	2409.6
5279.4	4801.2	4252.2	3733.2	3304.2	2853.0	2424.0
5335.8	4844.4	4287.0	3771.0	3352.8	2903.4	2482.2
5389.2	4957.8	4377.6	3840.6	3437.4	2997.6	2610.0
5411.4	5173.2	4561.8	3969.0	3555.6	3148.8	2809.2
5409.6	5214.0	4615.2	4004.4	3586.8	3189.0	2860.2
5344.2	5343.6	4858.2	4173.6	3732.0	3375.0	3073.2
5150.4	5408.4	5127.0	4396.8	3957.6	3681.6	3393.6
4843.8	5329.8	5163.6	4455.6	4117.8	3963.0	3607.2
4315.8	4954.2	4821.0	4204.8	4063.2	4018.2	3612.6
3490.8	3982.8	3925.8	3592.2	3644.4	3736.8	3226.8
2812.2	2796.6	2788.2	2667.0	2889.0	3076.8	2398.8
2349.0	1935.0	1797.0	1750.2	2116.2	2260.2	1488.6
2196.0	1738.2	1394.4	1335.6	1585.8	1662.6	897.6
1678.2	1687.8	1461.0	1252.2	1233.6	1129.2	657.6
821.4	835.2	882.6	805.8	691.2	582.6	207.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)