

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: STREETWORKS

Report Number: P159099

Luminaire Tested: **VST-E04-LED-E-U-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159099
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-E04-LED-E-U-SLR-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9817.7 lumens
Efficiency: N/A
Efficacy: 101.0 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

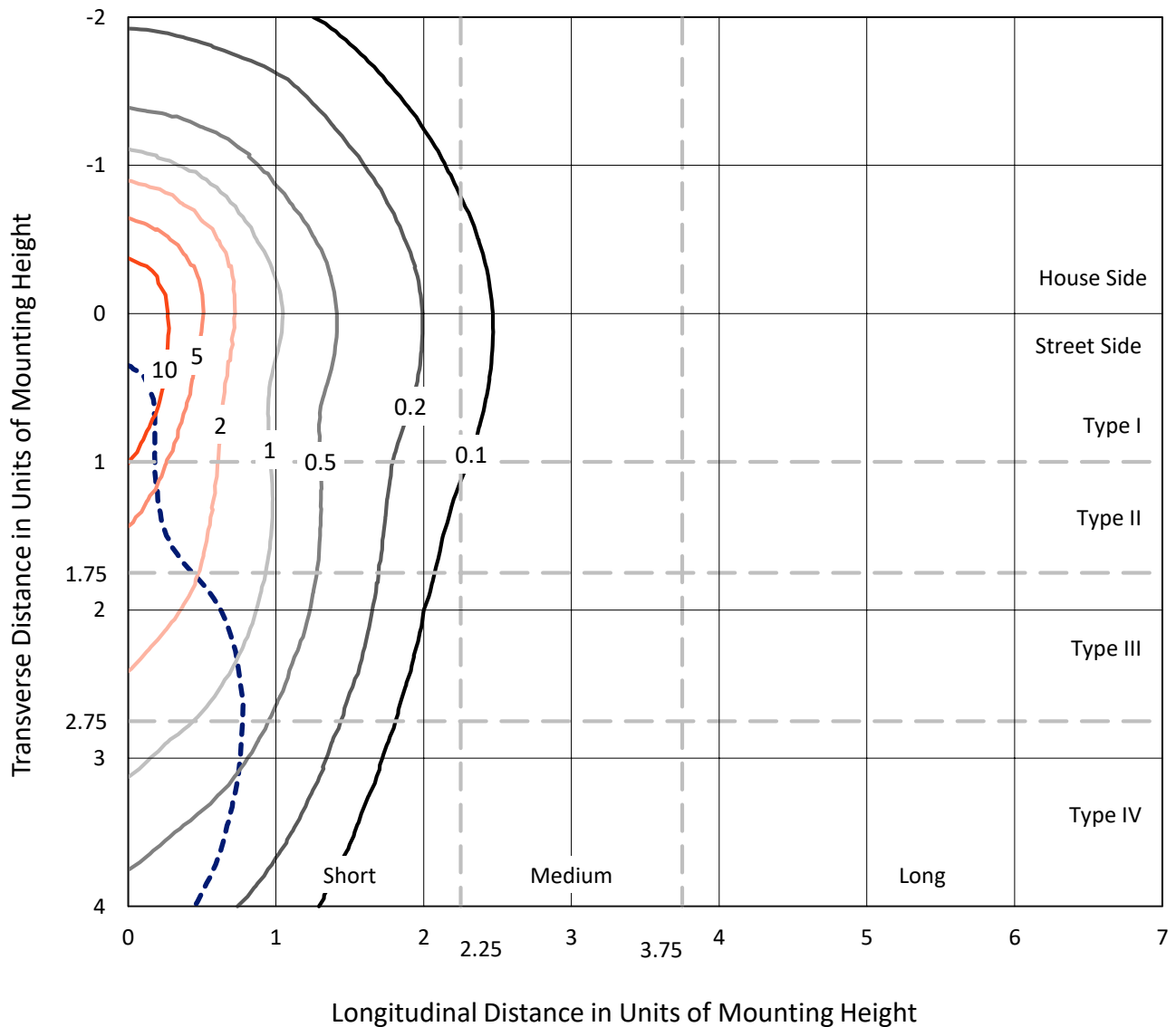
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

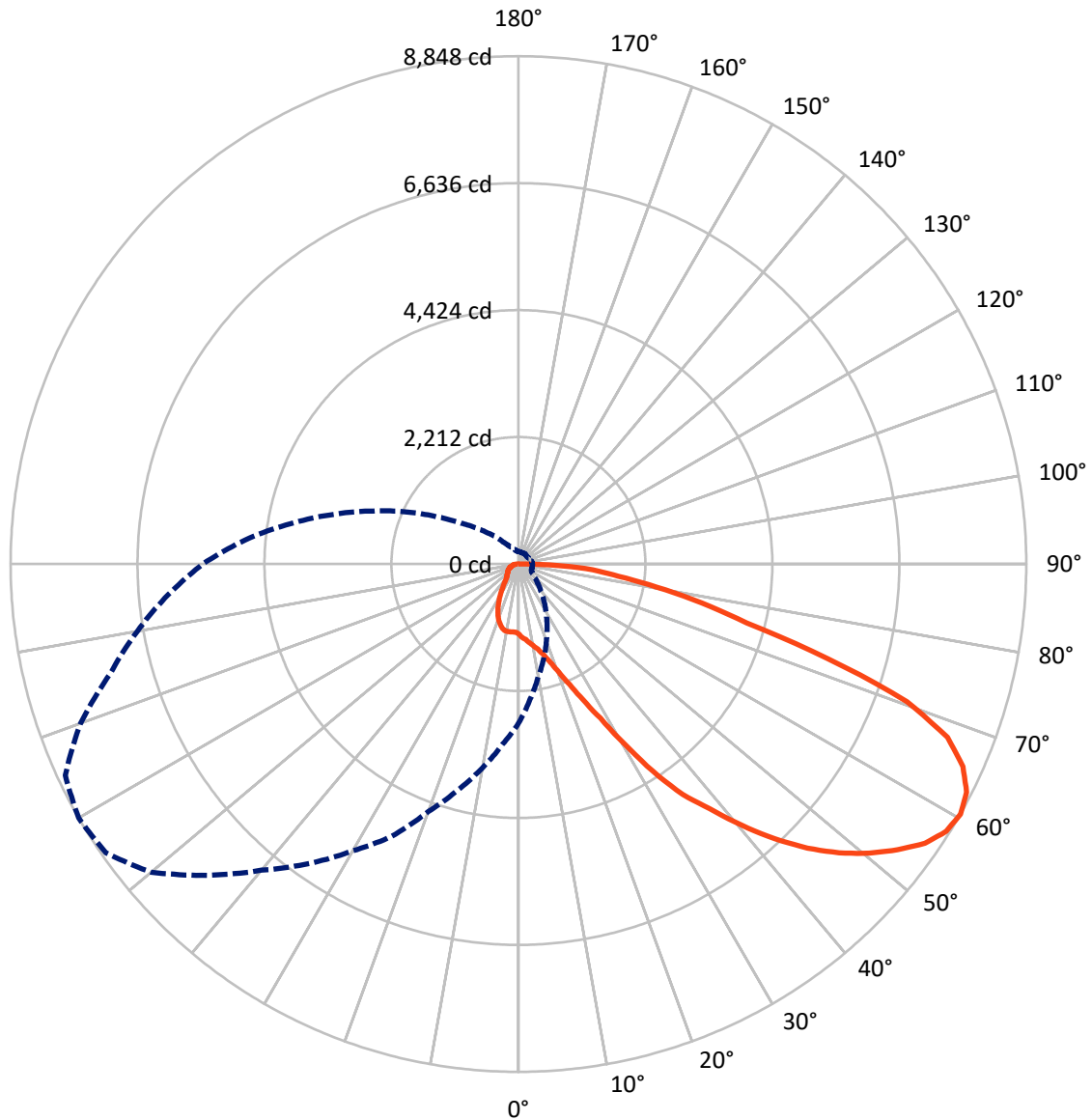
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 18.4 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2210.6	0.0	2210.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	7607.1	0.0	7607.1
	% Fixture	77.5	0.0	77.5
Total	Lumens	9817.7	0.0	9817.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	120.5	1.2
10°-20°	388.9	4.0
20°-30°	738.0	7.5
30°-40°	1162.3	11.8
40°-50°	1622.2	16.5
50°-60°	2006.3	20.4
60°-70°	2079.7	21.2
70°-80°	1308.6	13.3
80°-90°	391.2	4.0
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°	9817.7	100.0
0°-180°	9817.7	100.0



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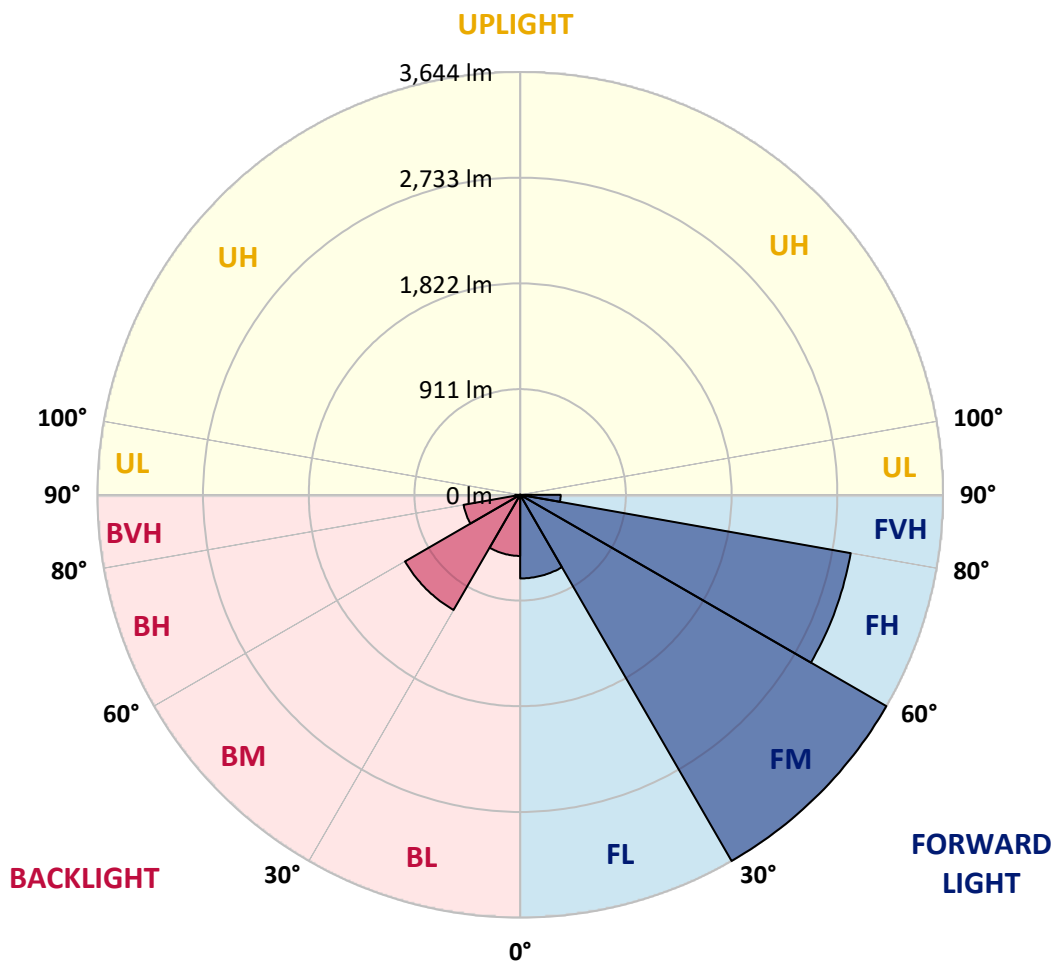
CATALOG NUMBER: VST-E04-LED-E-U-SLR-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	720.8	7.3			
FM (30°-60°)	3644.5	37.1			
FH (60°-80°)	2893.2	29.5			G2/5000
FVH (80°-90°)	348.6	3.6			G3/500
BL (0°-30°)	526.7	5.4	B2/1000		
BM (30°-60°)	1146.3	11.7	B2/2500		
BH (60°-80°)	495.1	5.0	B1/500		G1/500
BVH (80°-90°)	42.6	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1293.3	1215.9	1217.3	1215.1	1215.1	1213.7	1215.1	1213.7	1212.2	1212.2	1212.9
5°	1310.1	1224.6	1224.6	1222.4	1221.0	1219.5	1221.0	1219.5	1218.8	1217.3	1218.0
7.5°	1326.2	1229.7	1226.8	1223.9	1220.2	1221.7	1221.7	1221.0	1221.7	1221.0	1222.4
10°	1352.5	1246.5	1239.2	1232.7	1231.9	1230.5	1230.5	1228.3	1228.3	1226.8	1227.5
12.5°	1419.7	1298.4	1290.4	1278.7	1276.5	1269.9	1266.3	1261.9	1254.6	1248.0	1242.9
15°	1533.0	1384.6	1369.3	1359.1	1354.7	1341.5	1321.1	1305.0	1283.8	1265.5	1246.5
17.5°	1671.8	1500.1	1481.8	1468.7	1446.7	1410.9	1376.6	1337.1	1296.2	1259.0	1224.6
20°	1866.2	1666.0	1630.1	1598.7	1543.9	1482.6	1418.3	1349.6	1286.7	1228.3	1177.9
22.5°	2129.2	1880.0	1813.5	1729.5	1628.0	1524.2	1421.9	1326.9	1242.9	1166.9	1099.7
25°	2431.7	2084.6	1964.8	1820.1	1664.5	1521.3	1386.8	1264.8	1166.9	1069.0	995.9
27.5°	2654.6	2255.6	2078.8	1888.8	1690.1	1507.4	1342.3	1194.7	1076.3	976.2	887.8
30°	2781.7	2353.5	2140.9	1918.0	1694.4	1484.0	1286.0	1115.0	978.4	859.3	774.5
32.5°	2863.5	2406.1	2147.5	1888.8	1641.8	1414.6	1200.5	1023.0	874.6	747.5	657.6
35°	2932.2	2427.3	2116.8	1823.8	1542.5	1309.4	1090.9	913.4	756.3	639.3	547.3
37.5°	2960.0	2423.7	2067.8	1736.8	1445.3	1194.7	979.1	797.2	656.9	553.9	474.9
40°	2954.9	2390.1	2001.3	1644.0	1331.3	1074.8	860.7	700.7	586.7	499.8	442.1
42.5°	2920.5	2345.5	1927.5	1549.8	1226.8	975.5	780.4	638.6	546.5	480.8	430.4
45°	2877.4	2292.1	1860.3	1463.6	1144.2	904.6	733.6	621.1	541.4	478.6	424.5
47.5°	2819.0	2233.0	1792.4	1402.2	1100.4	883.4	732.9	631.3	545.8	473.5	414.3
50°	2755.4	2189.8	1755.1	1375.9	1095.3	896.5	758.4	647.4	548.7	468.4	400.4
52.5°	2710.8	2170.9	1754.4	1385.4	1122.3	933.1	788.4	667.8	559.7	471.3	397.5
55°	2656.0	2167.9	1773.4	1426.3	1181.5	995.2	835.9	702.9	582.4	482.2	399.7
57.5°	2659.7	2225.7	1847.2	1527.1	1288.2	1079.2	896.5	746.0	604.3	488.8	396.0
60°	2775.1	2360.1	1992.6	1699.6	1427.7	1177.9	958.7	769.4	602.8	474.2	378.5
62.5°	3013.3	2561.8	2210.3	1902.0	1569.5	1253.8	981.3	762.8	580.9	442.8	350.0
65°	3297.6	2797.8	2422.2	2059.1	1655.7	1271.4	961.6	726.3	537.0	401.9	315.7
67.5°	3581.8	2965.1	2544.2	2103.6	1620.6	1200.5	888.5	644.5	462.5	346.3	276.9
70°	3684.1	2999.4	2534.7	2003.5	1461.4	1024.4	731.4	518.8	371.2	283.5	233.1
72.5°	3530.6	2784.6	2253.4	1702.5	1188.1	794.2	536.3	382.9	283.5	222.1	190.0
75°	2961.4	2242.5	1781.4	1282.3	857.8	561.9	387.3	279.1	213.4	176.1	152.0
77.5°	2110.9	1561.5	1213.7	842.5	556.8	389.5	277.7	209.7	169.5	141.0	123.5
80°	1326.2	958.7	739.4	505.6	347.1	264.5	199.5	165.9	136.6	114.7	103.0
82.5°	798.6	558.2	435.5	314.2	228.0	181.2	146.9	130.1	108.9	95.0	88.4
85°	542.2	410.6	285.7	185.6	137.4	106.7	100.1	89.9	81.1	68.0	65.8
87.5°	103.8	146.9	127.9	76.0	50.4	43.1	38.0	36.5	32.9	26.3	30.0
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°	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1208.5	1207.1	1204.2	1204.2	1202.0	1197.6	1196.9	1193.9	1190.3	1191.0	1190.3
5°	1212.9	1210.0	1206.4	1204.9	1202.0	1197.6	1195.4	1191.7	1188.1	1188.1	1188.1
7.5°	1218.0	1214.4	1211.5	1206.4	1200.5	1196.1	1190.3	1185.9	1183.7	1183.0	1183.7
10°	1222.4	1220.2	1215.9	1208.5	1200.5	1191.7	1185.9	1180.0	1174.2	1174.9	1175.7
12.5°	1231.9	1224.6	1212.9	1202.0	1189.5	1178.6	1168.4	1161.1	1153.7	1153.7	1154.5
15°	1225.4	1204.2	1188.1	1166.9	1153.0	1135.5	1123.8	1117.2	1112.8	1111.4	1112.1
17.5°	1186.6	1161.1	1136.9	1117.9	1098.9	1085.1	1079.9	1075.6	1069.7	1072.6	1069.7
20°	1128.2	1096.8	1062.4	1039.8	1017.1	1007.6	998.8	994.5	990.8	1004.0	1004.0
22.5°	1044.1	1006.1	971.1	943.3	917.7	907.5	898.7	893.6	895.8	911.9	913.4
25°	938.2	892.2	846.1	829.3	803.7	795.7	790.6	789.9	792.1	808.1	811.8
27.5°	825.7	777.4	738.0	699.3	687.6	681.0	671.5	682.5	684.6	702.2	709.5
30°	705.8	654.0	612.3	586.7	561.9	565.5	557.5	570.7	576.5	594.8	600.6
32.5°	583.1	534.1	492.5	466.9	449.4	451.6	445.7	457.4	463.3	485.2	496.1
35°	482.2	440.6	407.0	385.1	377.0	369.0	367.5	369.0	374.8	391.6	411.4
37.5°	424.5	390.2	366.1	350.0	339.0	333.9	331.0	331.0	331.0	334.7	344.2
40°	399.7	369.0	347.8	332.5	325.2	322.2	320.0	317.8	314.2	312.7	313.5
42.5°	388.7	353.6	331.0	319.3	314.9	314.9	314.9	313.5	309.8	306.2	302.5
45°	377.8	339.8	317.1	309.1	306.9	307.6	307.6	307.6	304.7	300.3	293.7
47.5°	363.9	324.4	301.8	296.7	296.7	298.8	299.6	299.6	296.7	292.3	287.2
50°	347.1	304.7	284.2	279.9	277.7	277.7	277.7	277.7	275.5	272.5	268.9
52.5°	338.3	293.7	272.5	268.2	268.2	266.0	265.2	263.0	260.9	258.7	253.5
55°	335.4	289.3	267.4	263.8	263.8	261.6	259.4	257.2	253.5	249.9	244.8
57.5°	327.3	279.9	260.9	257.9	257.9	256.5	254.3	252.1	248.4	243.3	236.7
60°	309.1	263.8	247.7	247.0	247.0	246.2	244.8	244.8	241.1	236.0	228.0
62.5°	285.7	247.0	231.6	231.6	230.9	230.2	227.2	226.5	222.1	215.6	208.2
65°	263.0	232.4	222.1	219.2	217.7	215.6	214.1	210.4	206.8	200.9	193.6
67.5°	234.5	210.4	203.9	200.9	198.0	195.8	193.6	191.4	187.1	182.7	176.8
70°	203.9	186.3	182.7	181.9	178.3	176.1	175.4	173.2	168.8	164.4	157.1
72.5°	174.6	164.4	161.5	161.5	157.1	154.2	152.7	152.0	149.1	145.4	138.8
75°	141.0	133.7	133.0	136.6	136.6	134.4	133.0	134.4	130.1	127.9	121.3
77.5°	115.4	111.8	109.6	111.1	115.4	113.3	110.3	110.3	110.3	106.7	104.5
80°	97.9	95.0	92.8	94.3	93.5	92.8	91.3	88.4	88.4	88.4	87.7
82.5°	88.4	87.7	79.6	79.6	76.7	74.5	73.1	71.6	70.1	70.1	73.8
85°	66.5	68.7	64.3	63.6	59.9	57.0	54.1	52.6	51.1	53.3	60.6
87.5°	32.1	32.1	30.7	34.3	31.4	30.0	27.8	26.3	27.8	34.3	40.9
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°	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1188.8	1188.1	1187.4	1185.9	1183.0	1182.2	1180.8	1180.8	1180.0	1178.6	1180.0
5°	1186.6	1188.1	1188.1	1187.4	1185.2	1186.6	1186.6	1188.8	1188.8	1190.3	1193.9
7.5°	1183.7	1187.4	1190.3	1192.5	1195.4	1197.6	1202.0	1208.5	1211.5	1216.6	1218.8
10°	1177.9	1184.4	1189.5	1196.1	1203.4	1211.5	1218.0	1228.3	1231.9	1239.2	1242.9
12.5°	1161.1	1172.0	1180.8	1193.9	1206.4	1218.8	1230.5	1243.6	1250.2	1258.2	1263.3
15°	1120.1	1132.6	1145.0	1156.7	1178.6	1202.7	1221.7	1239.2	1248.7	1259.0	1264.1
17.5°	1071.2	1079.2	1089.4	1104.8	1126.0	1147.2	1177.9	1202.7	1217.3	1229.0	1230.5
20°	1014.2	1025.9	1033.2	1039.0	1055.8	1070.4	1103.3	1131.8	1150.8	1164.7	1168.4
22.5°	927.2	939.7	952.1	956.5	969.6	988.6	1006.9	1037.6	1064.6	1085.1	1097.5
25°	827.9	839.6	856.4	869.5	872.4	887.8	906.0	941.1	968.9	1001.8	1016.4
27.5°	728.5	738.7	757.0	764.3	773.1	788.4	803.0	832.2	861.5	899.5	915.5
30°	612.3	634.2	655.4	669.3	676.6	694.9	705.1	733.6	760.6	788.4	811.8
32.5°	512.9	532.7	556.8	574.3	583.1	597.0	613.0	637.2	658.3	685.4	712.4
35°	421.6	448.6	464.7	480.1	502.7	509.3	525.4	547.3	559.7	588.9	619.6
37.5°	357.3	373.4	389.5	404.8	423.8	432.6	447.9	466.2	480.8	498.3	526.1
40°	317.8	326.6	338.3	348.5	362.4	373.4	381.4	396.8	407.7	425.3	445.0
42.5°	299.6	301.8	303.2	310.5	317.8	325.2	333.9	340.5	353.6	366.8	379.2
45°	289.3	285.0	282.8	283.5	286.4	290.8	298.1	305.4	314.2	322.2	329.5
47.5°	280.6	274.7	268.2	264.5	265.2	266.7	272.5	278.4	282.8	289.3	292.3
50°	260.1	255.0	249.2	244.0	244.8	245.5	250.6	255.0	257.9	260.1	263.8
52.5°	247.0	239.7	234.5	229.4	228.7	230.9	235.3	239.7	241.1	242.6	243.3
55°	237.5	230.2	223.6	218.5	216.3	221.4	222.9	228.7	230.9	230.9	231.6
57.5°	230.2	221.4	214.8	209.7	206.1	209.7	213.4	219.9	220.7	219.2	219.2
60°	219.2	212.6	206.1	200.9	197.3	200.2	203.1	210.4	210.4	206.8	206.1
62.5°	200.2	196.6	192.2	190.0	189.2	192.2	194.4	200.2	198.0	193.6	192.2
65°	186.3	183.4	179.0	177.6	176.8	181.2	181.9	185.6	182.7	180.5	179.7
67.5°	169.5	167.3	165.1	164.4	162.2	162.2	163.7	165.9	164.4	164.4	165.1
70°	150.5	147.6	145.4	146.1	144.7	144.7	145.4	146.9	146.1	147.6	149.1
72.5°	133.0	129.3	128.6	128.6	127.1	127.9	127.9	128.6	130.1	130.8	134.4
75°	116.2	112.5	112.5	111.8	111.8	111.8	112.5	114.0	115.4	116.2	117.6
77.5°	100.8	98.6	99.4	98.6	98.6	98.6	98.6	100.8	101.6	102.3	104.5
80°	87.0	87.0	87.7	87.7	87.0	86.2	87.0	88.4	89.1	89.9	90.6
82.5°	78.9	79.6	79.6	79.6	76.0	74.5	76.7	78.2	79.6	80.4	81.8
85°	68.0	65.0	68.0	67.2	62.1	61.4	61.4	62.1	63.6	62.1	62.1
87.5°	43.8	39.5	41.6	41.6	36.5	30.0	38.0	40.9	36.5	38.7	38.7
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1182.2	1180.8	1181.5	1181.5	1183.0	1180.8	1183.7	1186.6	1187.4	1187.4	1188.1
5°	1197.6	1196.1	1201.2	1199.0	1204.2	1203.4	1207.1	1210.0	1211.5	1211.5	1211.5
7.5°	1221.7	1226.8	1229.7	1237.8	1238.5	1242.9	1246.5	1250.2	1248.7	1249.5	1248.7
10°	1248.7	1255.3	1262.6	1270.7	1271.4	1276.5	1282.3	1286.0	1284.5	1283.8	1281.6
12.5°	1272.1	1276.5	1285.3	1293.3	1297.7	1305.7	1311.6	1314.5	1314.5	1312.3	1310.1
15°	1270.7	1277.2	1286.7	1298.4	1306.5	1318.1	1328.4	1335.0	1335.7	1333.5	1332.8
17.5°	1238.5	1248.0	1256.8	1272.8	1287.5	1303.5	1320.3	1329.8	1338.6	1343.7	1346.6
20°	1180.8	1192.5	1204.9	1226.1	1245.8	1267.0	1286.7	1300.6	1313.8	1329.1	1347.4
22.5°	1112.8	1130.4	1147.9	1174.9	1199.0	1223.2	1245.8	1262.6	1283.1	1309.4	1343.7
25°	1033.2	1051.4	1073.4	1104.8	1135.5	1170.5	1204.2	1237.8	1277.2	1322.5	1375.9
27.5°	938.9	959.4	987.9	1025.9	1060.9	1096.8	1149.4	1202.7	1267.0	1325.5	1386.1
30°	845.4	871.7	902.4	940.4	975.5	1026.6	1079.2	1145.0	1212.9	1278.7	1351.0
32.5°	744.6	777.4	815.4	846.9	886.3	938.2	990.8	1060.9	1133.3	1210.7	1290.4
35°	647.4	678.8	708.8	743.8	783.3	832.2	883.4	950.6	1042.0	1124.5	1219.5
37.5°	548.7	578.0	599.2	626.9	661.3	715.3	770.1	847.6	933.8	1035.4	1130.4
40°	462.5	486.6	510.7	532.7	561.9	613.0	671.5	747.5	832.2	930.9	1036.8
42.5°	393.8	412.1	438.4	464.7	489.6	533.4	588.2	662.7	746.8	847.6	953.5
45°	336.1	348.5	369.7	391.6	422.3	458.9	511.5	587.5	673.0	774.5	886.3
47.5°	294.5	300.3	314.9	337.6	366.1	401.9	447.2	515.9	599.2	701.5	819.1
50°	266.0	272.5	279.9	298.8	324.4	361.0	398.2	458.1	534.1	634.2	751.1
52.5°	246.2	249.2	252.1	263.8	287.2	317.8	357.3	402.6	479.3	575.0	680.3
55°	234.5	235.3	237.5	243.3	260.9	289.3	323.7	366.8	426.7	517.3	624.7
57.5°	220.7	222.1	224.3	228.0	238.9	264.5	293.7	328.8	378.5	454.5	557.5
60°	207.5	211.2	214.8	217.0	222.9	238.2	263.0	290.8	331.0	388.0	469.8
62.5°	193.6	198.0	200.9	203.1	205.3	214.8	233.1	251.4	276.2	313.5	374.8
65°	181.2	184.1	186.3	187.8	189.2	192.2	200.2	207.5	214.8	237.5	282.0
67.5°	167.3	168.8	169.5	170.2	169.5	169.5	170.2	173.2	176.1	184.9	206.1
70°	151.3	153.4	153.4	154.2	154.2	152.0	152.0	152.0	152.0	154.2	165.9
72.5°	135.9	138.8	138.8	139.6	138.8	138.1	138.1	138.1	140.3	141.8	146.1
75°	121.3	124.2	123.5	124.2	124.9	124.9	126.4	127.1	129.3	130.1	133.0
77.5°	106.7	108.9	109.6	108.9	110.3	111.8	114.7	116.2	116.9	117.6	118.4
80°	92.8	94.3	93.5	91.3	95.0	97.2	101.6	106.7	105.2	105.9	107.4
82.5°	76.7	74.5	73.1	74.5	76.7	79.6	84.0	90.6	91.3	95.0	94.3
85°	59.2	52.6	51.9	55.5	54.8	58.5	65.8	70.9	75.3	78.9	75.3
87.5°	35.1	31.4	26.3	24.8	27.0	35.8	37.3	45.3	49.0	50.4	45.3
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°	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0
2.5°	1254.6	1258.2	1258.2	1259.7	1261.9	1262.6	1265.5	1270.7	1271.4	1271.4	1273.6
5°	1278.0	1281.6	1281.6	1284.5	1285.3	1288.9	1292.6	1298.4	1301.3	1300.6	1310.1
7.5°	1316.0	1313.0	1310.8	1315.2	1317.4	1321.8	1329.1	1334.2	1339.3	1347.4	1360.5
10°	1348.1	1343.7	1341.5	1344.5	1345.9	1351.0	1355.4	1362.7	1375.1	1387.6	1403.6
12.5°	1374.4	1369.3	1363.4	1364.9	1367.1	1373.7	1381.0	1390.5	1408.8	1424.8	1448.9
15°	1396.3	1389.0	1383.2	1386.1	1391.2	1400.0	1412.4	1429.2	1459.2	1486.9	1519.1
17.5°	1417.5	1416.1	1413.9	1423.4	1427.0	1447.5	1465.7	1496.4	1537.4	1579.0	1625.0
20°	1438.0	1454.1	1462.1	1481.1	1492.8	1520.5	1548.3	1585.6	1637.5	1694.4	1757.3
22.5°	1466.5	1510.3	1537.4	1576.1	1595.8	1625.8	1666.7	1715.6	1773.4	1846.4	1926.8
25°	1534.4	1598.7	1652.8	1713.4	1763.1	1809.2	1858.1	1917.3	2000.6	2067.1	2172.3
27.5°	1564.4	1655.0	1736.1	1821.6	1896.1	1967.0	2044.4	2116.1	2214.7	2304.6	2431.7
30°	1535.9	1638.2	1743.4	1855.2	1964.1	2071.5	2184.0	2293.6	2407.6	2533.3	2668.4
32.5°	1483.3	1598.0	1716.4	1847.9	1983.1	2122.6	2268.8	2428.1	2588.8	2745.2	2883.3
35°	1429.9	1553.4	1684.9	1835.5	1994.8	2167.9	2349.1	2550.8	2763.4	2961.4	3141.9
37.5°	1352.5	1488.4	1638.9	1812.8	2002.1	2215.4	2448.5	2696.9	2965.8	3238.4	3475.1
40°	1259.0	1402.9	1567.3	1767.5	1994.8	2264.4	2567.6	2886.2	3231.8	3564.3	3855.1
42.5°	1173.5	1313.8	1489.1	1706.9	1975.8	2307.5	2680.9	3077.6	3486.8	3858.7	4238.7
45°	1098.2	1253.1	1429.2	1664.5	1966.3	2344.0	2764.9	3220.8	3689.2	4132.0	4580.6
47.5°	1029.5	1190.3	1387.6	1641.1	1961.9	2365.9	2823.3	3314.4	3833.1	4341.7	4862.7
50°	958.7	1115.0	1326.2	1615.5	1950.9	2365.2	2854.0	3377.9	3934.0	4504.6	5057.0
52.5°	882.7	1039.8	1251.7	1568.8	1927.5	2352.1	2862.1	3421.0	4013.6	4604.7	5222.2
55°	813.2	960.1	1172.0	1490.6	1878.6	2319.9	2843.8	3439.3	4069.9	4704.1	5338.4
57.5°	733.6	886.3	1088.0	1383.2	1786.5	2262.9	2791.9	3413.7	4086.0	4770.6	5430.4
60°	624.0	773.8	981.3	1256.0	1642.6	2142.4	2695.5	3336.3	4034.8	4782.3	5496.2
62.5°	498.3	627.7	827.9	1080.7	1440.2	1953.1	2517.2	3162.4	3875.5	4672.7	5462.6
65°	370.5	456.7	629.1	851.2	1205.6	1668.1	2230.0	2870.8	3564.3	4368.0	5251.4
67.5°	257.9	320.0	426.0	591.1	876.8	1288.2	1820.1	2415.6	3082.7	3803.9	4813.0
70°	195.1	223.6	281.3	373.4	567.7	877.5	1323.3	1853.7	2472.6	3167.5	4118.1
72.5°	166.6	181.2	213.4	255.7	347.8	533.4	830.8	1275.8	1824.5	2390.1	3159.5
75°	149.8	162.2	182.7	209.7	246.2	323.7	487.4	807.4	1208.5	1600.9	2204.5
77.5°	135.9	146.9	165.1	179.0	198.7	233.1	310.5	483.0	724.1	989.3	1367.8
80°	121.3	127.9	144.7	158.6	173.9	193.6	222.9	303.2	415.8	586.0	806.7
82.5°	103.8	108.9	121.3	140.3	152.0	160.0	168.8	200.9	249.2	317.8	447.9
85°	80.4	84.0	95.0	108.9	114.0	114.7	116.2	124.9	154.9	238.2	385.8
87.5°	40.9	45.3	57.0	61.4	51.9	56.3	57.0	60.6	80.4	130.8	133.0
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°	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	0°
2.5°	1273.6	1275.8	1280.9	1280.2	1283.8	1283.8	1283.8	1287.5	1285.3	1287.5	1291.1	2.5°
5°	1310.1	1313.8	1321.1	1321.1	1321.8	1319.6	1324.0	1326.9	1323.3	1321.8	1322.5	5°
7.5°	1363.4	1369.3	1375.1	1381.0	1385.4	1383.2	1383.9	1377.3	1375.9	1370.8	1364.2	7.5°
10°	1415.3	1431.4	1442.4	1452.6	1453.3	1451.1	1451.9	1440.9	1438.7	1428.5	1421.9	10°
12.5°	1468.7	1489.1	1506.7	1517.6	1524.2	1525.7	1526.4	1526.4	1516.2	1507.4	1492.0	12.5°
15°	1547.6	1583.4	1610.4	1622.1	1631.6	1640.4	1642.6	1645.5	1637.5	1625.8	1623.6	15°
17.5°	1672.5	1706.1	1741.9	1773.4	1794.6	1796.0	1814.3	1812.8	1829.6	1816.5	1812.8	17.5°
20°	1820.9	1893.9	1931.2	1972.8	1996.9	2008.6	2051.0	2037.9	2050.3	2071.5	2050.3	20°
22.5°	2006.4	2099.2	2153.3	2210.3	2249.8	2278.3	2308.9	2333.1	2366.7	2382.7	2368.1	22.5°
25°	2252.7	2358.6	2422.9	2501.8	2564.7	2615.8	2669.2	2733.5	2732.7	2771.5	2798.5	25°
27.5°	2535.5	2670.6	2764.2	2903.0	2957.1	3043.3	3134.6	3234.0	3251.5	3301.9	3327.5	27.5°
30°	2801.4	2968.8	3154.3	3319.5	3506.5	3634.4	3740.4	3810.5	3916.4	3890.1	3875.5	30°
32.5°	3046.9	3269.8	3534.3	3805.4	4102.0	4304.4	4491.5	4578.4	4644.2	4504.6	4319.8	32.5°
35°	3365.5	3632.2	3934.7	4269.4	4646.4	4933.6	5126.5	5153.5	5116.2	4937.2	4631.1	35°
37.5°	3760.1	4039.9	4384.1	4737.7	5138.1	5407.8	5627.7	5667.2	5568.5	5249.2	4927.7	37.5°
40°	4149.5	4477.6	4851.0	5269.7	5684.7	5981.3	6202.0	6213.7	6053.0	5679.6	5303.3	40°
42.5°	4575.5	4934.3	5350.0	5814.0	6242.9	6543.2	6702.5	6752.9	6525.7	6047.1	5686.2	42.5°
45°	4943.1	5372.0	5835.2	6328.4	6777.1	7062.0	7224.2	7208.2	6933.4	6460.7	6037.6	45°
47.5°	5301.1	5773.1	6261.2	6785.1	7230.8	7518.7	7685.3	7670.7	7322.1	6777.8	6312.3	47.5°
50°	5619.7	6131.9	6653.6	7213.3	7657.5	7921.3	8125.2	8060.9	7620.3	7032.8	6489.2	50°
52.5°	5841.1	6412.5	6957.5	7562.5	8019.9	8269.8	8529.2	8322.4	7796.4	7189.2	6584.2	52.5°
55°	5981.3	6605.3	7173.8	7843.1	8292.5	8591.3	8758.7	8464.9	7864.3	7232.3	6617.0	55°
57.5°	6076.3	6711.3	7301.0	8005.3	8538.0	8788.6	8829.5	8470.0	7820.5	7164.3	6584.2	57.5°
60°	6123.1	6742.7	7358.7	8119.3	8710.4	8847.8	8773.3	8351.7	7669.2	6964.8	6372.3	60°
62.5°	6118.0	6703.3	7328.7	8157.3	8744.8	8762.3	8592.8	8150.0	7390.8	6546.2	6020.1	62.5°
65°	5987.9	6559.3	7159.9	8016.3	8584.8	8509.5	8296.1	7771.5	6849.4	5999.6	5733.6	65°
67.5°	5613.1	6161.1	6718.6	7554.5	8133.9	8060.9	7737.9	7027.7	6220.3	5515.9	5372.7	67.5°
70°	4986.2	5450.9	5940.4	6674.8	7282.7	7184.0	6619.2	6187.4	5597.0	4956.9	4907.2	70°
72.5°	4168.5	4520.7	4875.8	5422.4	5841.1	5639.4	5284.3	5261.6	4784.5	4295.7	4305.9	72.5°
75°	3260.3	3524.8	3690.7	4012.2	4290.6	4110.1	4131.3	4256.9	4099.8	3714.8	3589.8	75°
77.5°	2362.3	2615.8	2668.4	2859.2	3055.0	3260.3	3532.1	3828.0	3877.7	3661.4	3208.4	77.5°
80°	1546.1	1825.2	1721.5	1789.4	2064.9	2439.7	2935.9	3423.2	3590.6	3396.2	2838.7	80°
82.5°	911.9	1302.8	1137.7	1253.8	1428.5	1755.1	2097.8	2465.3	2745.2	2538.4	2371.1	82.5°
85°	692.7	1027.3	1088.0	1229.0	1286.0	1299.9	1359.8	1479.6	1624.3	1678.4	1674.0	85°
87.5°	361.0	798.6	896.5	829.3	773.8	670.8	523.2	563.4	515.1	704.4	667.1	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°
1221.0	1221.0	1221.0	1221.0	1221.0	1221.0	1221.0
1291.8	1289.7	1291.1	1291.8	1291.8	1291.8	1293.3
1321.8	1316.0	1313.8	1313.8	1313.0	1310.8	1310.1
1354.0	1343.7	1340.1	1335.7	1332.0	1329.8	1326.2
1411.7	1402.9	1384.6	1374.4	1364.9	1358.3	1352.5
1489.1	1476.7	1459.2	1446.0	1431.4	1427.0	1419.7
1609.0	1598.0	1582.7	1568.0	1559.3	1543.9	1533.0
1796.0	1774.1	1758.7	1739.7	1718.6	1687.1	1671.8
2042.3	1998.4	1967.7	1950.9	1908.5	1903.4	1866.2
2325.0	2311.9	2265.1	2244.6	2203.7	2187.7	2129.2
2748.1	2737.9	2642.1	2631.9	2569.1	2522.3	2431.7
3304.1	3220.1	3112.0	3036.7	2929.3	2808.7	2654.6
3790.0	3618.3	3453.2	3277.8	3129.5	2956.3	2781.7
4099.8	3869.7	3657.1	3477.3	3293.9	3087.9	2863.5
4371.7	4139.3	3907.7	3695.1	3472.9	3209.1	2932.2
4696.8	4465.9	4205.1	3906.2	3621.3	3298.3	2960.0
5030.0	4759.7	4433.8	4067.7	3709.7	3342.1	2954.9
5371.2	5025.6	4592.3	4175.1	3765.9	3348.7	2920.5
5648.2	5211.2	4710.0	4229.9	3777.6	3326.1	2877.4
5844.0	5330.3	4762.6	4248.9	3763.0	3290.3	2819.0
5955.8	5395.3	4775.7	4235.0	3733.0	3239.1	2755.4
5996.7	5415.1	4762.6	4206.5	3706.0	3184.3	2710.8
5992.3	5404.1	4714.3	4140.0	3633.7	3111.2	2656.0
5909.7	5302.5	4615.7	4060.4	3572.3	3077.6	2659.7
5769.5	5238.2	4586.5	4076.5	3604.4	3150.0	2775.1
5705.9	5366.8	4750.9	4237.2	3769.6	3356.7	3013.3
5670.1	5575.8	4986.2	4410.4	3965.4	3607.4	3297.6
5523.9	5635.7	5119.9	4509.0	4140.0	3858.7	3581.8
5287.9	5496.2	5018.3	4490.0	4236.5	4051.6	3684.1
4795.5	5015.4	4566.0	4210.2	4115.9	4054.5	3530.6
3885.0	3999.0	3743.3	3662.9	3698.0	3698.7	2961.4
2865.0	2796.3	2680.9	2686.7	2922.7	2886.2	2110.9
2338.9	1914.4	1750.7	1812.8	2104.4	1947.3	1326.2
2176.7	1707.6	1409.5	1424.1	1589.2	1254.6	798.6
1760.2	1556.3	1248.0	1120.1	1087.3	835.9	542.2
736.5	677.3	504.2	454.5	372.6	228.0	103.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)