

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: P159089

Luminaire Tested: **VST-E03-LED-E-U-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159089
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-E03-LED-E-U-SLR-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7363.3 lumens
Efficiency: N/A
Efficacy: 97.9 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: 28.75 FT



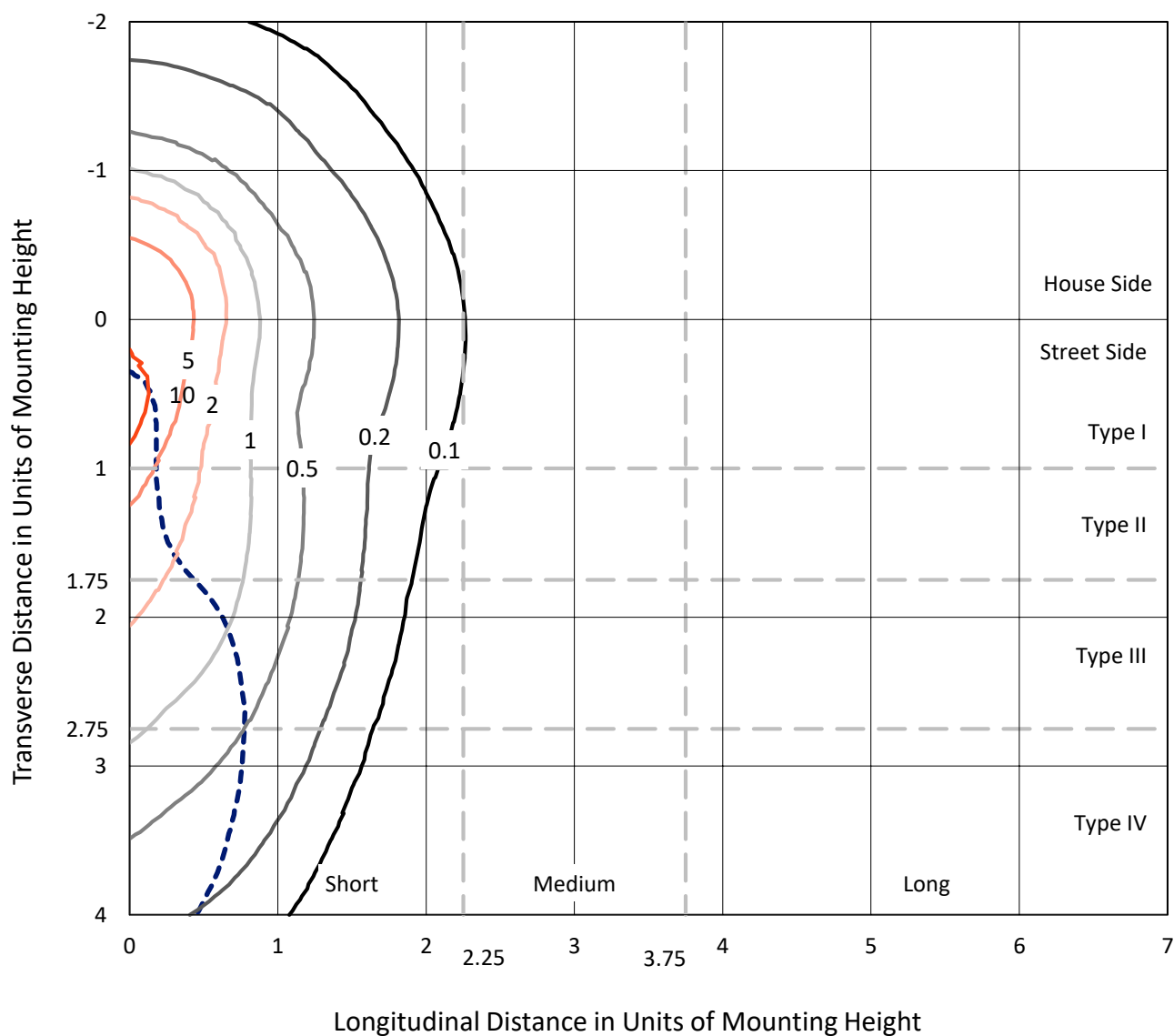
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

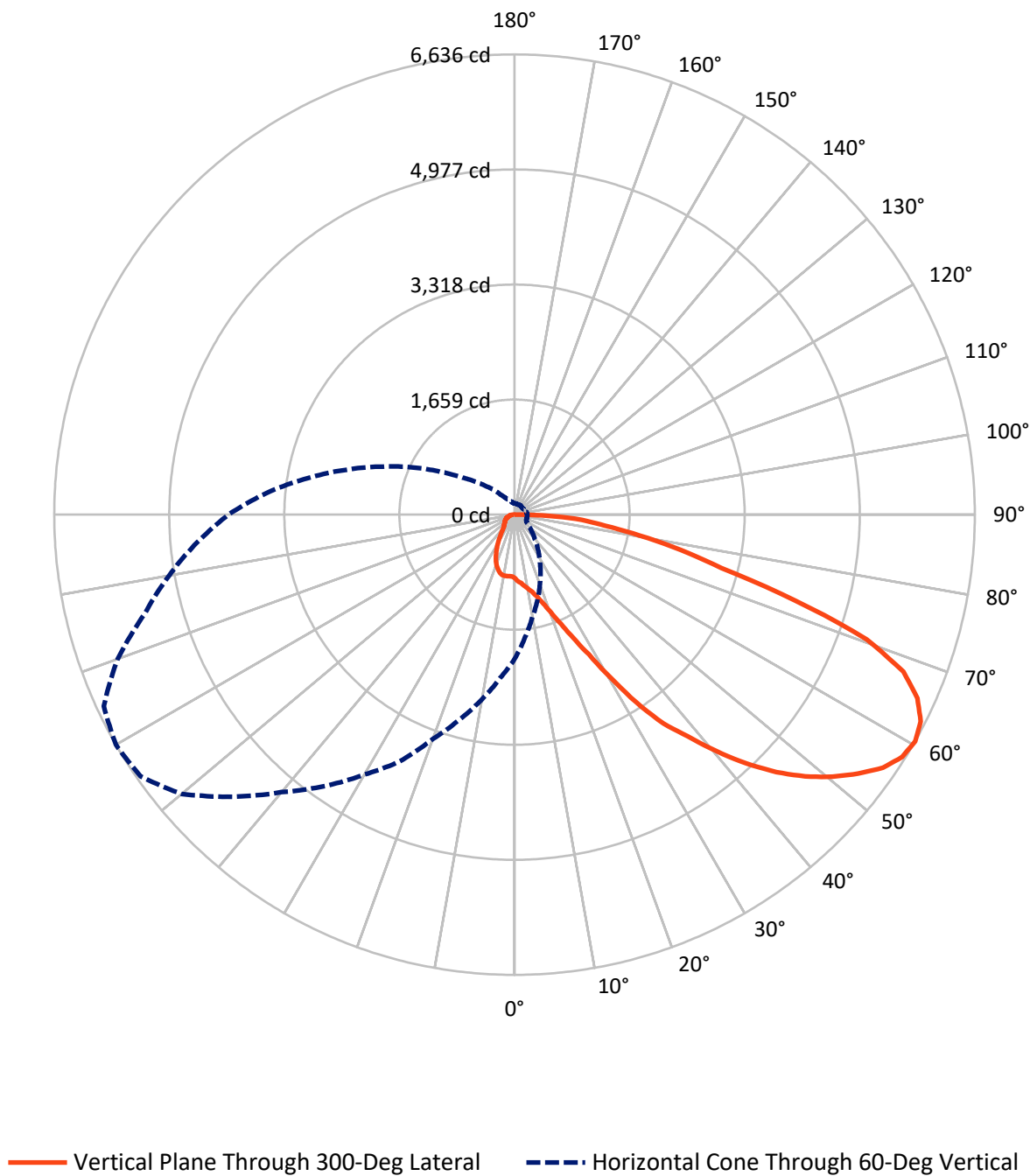


Based on 10 foot mounting height. Maximum calculated value = 13.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1658.0	0.0	1658.0
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	5705.3	0.0	5705.3
	% Fixture	77.5	0.0	77.5
Total	Lumens	7363.3	0.0	7363.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.3	1.2
10°-20°	291.7	4.0
20°-30°	553.5	7.5
30°-40°	871.7	11.8
40°-50°	1216.7	16.5
50°-60°	1504.8	20.4
60°-70°	1559.8	21.2
70°-80°	981.5	13.3
80°-90°	293.4	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°	7363.3	100.0
0°-180°	7363.3	100.0

Coefficient of Utilization



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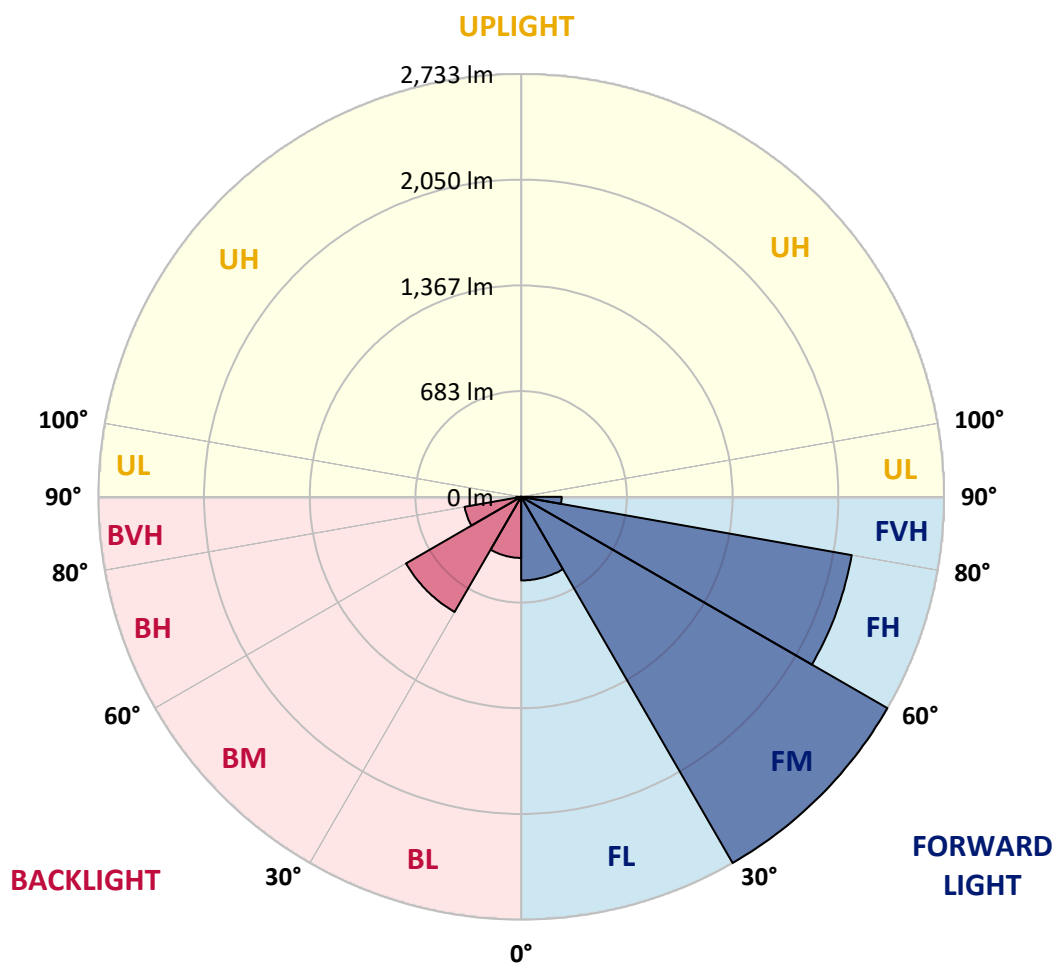
CATALOG NUMBER: VST-E03-LED-E-U-SLR-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	540.6	7.3			
FM	(30°-60°)	2733.4	37.1			
FH	(60°-80°)	2169.9	29.5			G2/5000
FVH	(80°-90°)	261.5	3.6			G3/500
BL	(0°-30°)	395.0	5.4	B1/500		
BM	(30°-60°)	859.8	11.7	B1/1000		
BH	(60°-80°)	371.3	5.0	B1/500		G1/500
BVH	(80°-90°)	31.9	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°	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7
2.5°	970.0	911.9	913.0	911.3	911.3	910.3	911.3	910.3	909.1	909.1	909.7
5°	982.6	918.5	918.5	916.8	915.7	914.6	915.7	914.6	914.1	913.0	913.6
7.5°	994.6	922.3	920.1	917.9	915.2	916.3	916.3	915.7	916.3	915.7	916.8
10°	1014.4	934.9	929.4	924.5	923.9	922.9	922.9	921.2	921.2	920.1	920.6
12.5°	1064.8	973.8	967.8	959.0	957.4	952.4	949.7	946.4	940.9	936.0	932.2
15°	1149.7	1038.5	1027.0	1019.3	1016.0	1006.1	990.8	978.7	962.9	949.1	934.9
17.5°	1253.8	1125.1	1111.4	1101.5	1085.0	1058.2	1032.5	1002.8	972.2	944.2	918.5
20°	1399.6	1249.4	1222.6	1199.0	1157.9	1111.9	1063.7	1012.2	965.0	921.2	883.4
22.5°	1596.9	1410.1	1360.1	1297.1	1220.9	1143.1	1066.4	995.2	932.2	875.2	824.8
25°	1823.8	1563.5	1473.6	1365.1	1248.4	1141.0	1040.1	948.6	875.2	801.7	746.9
27.5°	1990.9	1691.7	1559.1	1416.6	1267.6	1130.5	1006.7	896.0	807.2	732.1	665.8
30°	2086.3	1765.1	1605.7	1438.5	1270.9	1113.0	964.5	836.3	733.8	644.5	580.9
32.5°	2147.6	1804.6	1610.6	1416.6	1231.4	1060.9	900.4	767.2	656.0	560.6	493.2
35°	2199.2	1820.5	1587.6	1367.8	1156.9	982.0	818.2	685.0	567.2	479.5	410.5
37.5°	2220.0	1817.8	1550.9	1302.6	1084.0	896.0	734.3	597.9	492.7	415.4	356.2
40°	2216.2	1792.6	1501.0	1233.0	998.5	806.1	645.5	525.5	440.0	374.8	331.6
42.5°	2190.4	1759.1	1445.6	1162.3	920.1	731.6	585.3	479.0	409.9	360.6	322.8
45°	2158.1	1719.1	1395.2	1097.6	858.2	678.4	550.2	465.8	406.1	358.9	318.4
47.5°	2114.2	1674.7	1344.2	1051.6	825.3	662.5	549.7	473.5	409.4	355.1	310.7
50°	2066.5	1642.4	1316.3	1031.9	821.5	672.4	568.9	485.5	411.5	351.3	300.3
52.5°	2033.1	1628.2	1315.8	1039.0	841.7	699.8	591.3	500.9	419.8	353.5	298.1
55°	1992.0	1625.9	1330.0	1069.7	886.1	746.4	626.9	527.2	436.7	361.7	299.8
57.5°	1994.8	1669.3	1385.3	1145.3	966.1	809.4	672.4	559.5	453.2	366.6	297.0
60°	2081.3	1770.1	1494.4	1274.7	1070.8	883.4	719.0	577.1	452.1	355.7	283.9
62.5°	2260.0	1921.3	1657.7	1426.5	1177.1	940.4	736.0	572.1	435.7	332.1	262.5
65°	2473.2	2098.3	1816.7	1544.3	1241.8	953.5	721.2	544.7	402.8	301.4	236.8
67.5°	2686.3	2223.8	1908.2	1577.7	1215.5	900.4	666.4	483.4	346.9	259.7	207.7
70°	2763.1	2249.6	1901.0	1502.6	1096.0	768.3	548.6	389.1	278.4	212.6	174.8
72.5°	2648.0	2088.5	1690.1	1276.9	891.1	595.7	402.2	287.2	212.6	166.6	142.5
75°	2221.1	1681.9	1336.0	961.7	643.4	421.4	290.5	209.3	160.0	132.1	114.0
77.5°	1583.2	1171.1	910.3	631.9	417.6	292.1	208.3	157.3	127.1	105.8	92.6
80°	994.6	719.0	554.6	379.2	260.3	198.4	149.6	124.4	102.5	86.0	77.3
82.5°	599.0	418.7	326.6	235.6	171.0	135.9	110.2	97.6	81.7	71.2	66.3
85°	406.6	308.0	214.3	139.2	103.0	80.0	75.1	67.4	60.8	50.9	49.3
87.5°	77.8	110.2	95.9	57.0	37.8	32.3	28.5	27.4	24.7	19.7	22.4
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°	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7
2.5°	906.4	905.3	903.1	903.1	901.5	898.2	897.7	895.4	892.7	893.3	892.7
5°	909.7	907.5	904.7	903.7	901.5	898.2	896.5	893.8	891.1	891.1	891.1
7.5°	913.6	910.8	908.6	904.7	900.4	897.1	892.7	889.4	887.8	887.2	887.8
10°	916.8	915.2	911.9	906.4	900.4	893.8	889.4	885.1	880.7	881.2	881.8
12.5°	923.9	918.5	909.7	901.5	892.1	883.9	876.2	870.8	865.3	865.3	865.9
15°	919.0	903.1	891.1	875.2	864.8	851.6	842.8	837.9	834.6	833.5	834.1
17.5°	890.0	870.8	852.7	838.4	824.2	813.8	809.9	806.7	802.3	804.5	802.3
20°	846.1	822.5	796.8	779.8	762.8	755.7	749.1	745.9	743.1	752.9	752.9
22.5°	783.1	754.6	728.3	707.5	688.3	680.6	674.0	670.2	671.9	683.9	685.0
25°	703.6	669.1	634.6	622.0	602.8	596.8	592.9	592.4	594.1	606.1	608.8
27.5°	619.3	583.1	553.5	524.5	515.7	510.7	503.6	511.9	513.5	526.6	532.1
30°	529.4	490.4	459.2	440.0	421.4	424.1	418.1	428.0	432.4	446.1	450.5
32.5°	437.3	400.6	369.4	350.2	337.0	338.7	334.3	343.1	347.5	363.9	372.1
35°	361.7	330.5	305.2	288.8	282.8	276.7	275.6	276.7	281.1	293.8	308.5
37.5°	318.4	292.6	274.6	262.5	254.3	250.4	248.2	248.2	248.2	251.0	258.1
40°	299.8	276.7	260.9	249.4	243.8	241.7	240.0	238.4	235.6	234.5	235.1
42.5°	291.5	265.3	248.2	239.5	236.2	236.2	236.2	235.1	232.4	229.6	226.9
45°	283.3	254.8	237.8	231.8	230.2	230.7	230.7	230.7	228.5	225.2	220.3
47.5°	272.9	243.3	226.3	222.5	222.5	224.2	224.7	224.7	222.5	219.2	215.3
50°	260.3	228.5	213.2	209.9	208.3	208.3	208.3	208.3	206.6	204.4	201.7
52.5°	253.7	220.3	204.4	201.1	201.1	199.5	198.9	197.3	195.7	194.0	190.1
55°	251.5	217.0	200.6	197.8	197.8	196.2	194.5	192.9	190.1	187.4	183.6
57.5°	245.5	209.9	195.7	193.4	193.4	192.4	190.7	189.1	186.3	182.5	177.5
60°	231.8	197.8	185.8	185.2	185.2	184.7	183.6	183.6	180.8	177.0	171.0
62.5°	214.3	185.2	173.7	173.7	173.2	172.6	170.5	169.9	166.6	161.6	156.2
65°	197.3	174.2	166.6	164.4	163.3	161.6	160.6	157.8	155.1	150.7	145.2
67.5°	175.9	157.8	152.9	150.7	148.5	146.9	145.2	143.6	140.3	137.0	132.6
70°	152.9	139.7	137.0	136.4	133.7	132.1	131.5	129.9	126.6	123.3	117.8
72.5°	131.0	123.3	121.1	121.1	117.8	115.6	114.5	114.0	111.8	109.1	104.1
75°	105.8	100.3	99.7	102.5	102.5	100.9	99.7	100.9	97.6	95.9	91.0
77.5°	86.6	83.8	82.2	83.3	86.6	85.0	82.7	82.7	82.7	80.0	78.4
80°	73.4	71.2	69.6	70.7	70.1	69.6	68.5	66.3	66.3	66.3	65.8
82.5°	66.3	65.8	59.8	59.8	57.5	55.9	54.8	53.7	52.6	52.6	55.3
85°	49.9	51.5	48.2	47.7	44.9	42.7	40.6	39.5	38.3	40.0	45.5
87.5°	24.1	24.1	23.0	25.7	23.6	22.4	20.8	19.7	20.8	25.7	30.7
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°	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7
2.5°	891.6	891.1	890.5	889.4	887.2	886.7	885.6	885.6	885.1	883.9	885.1
5°	890.0	891.1	891.1	890.5	888.9	890.0	890.0	891.6	891.6	892.7	895.4
7.5°	887.8	890.5	892.7	894.4	896.5	898.2	901.5	906.4	908.6	912.4	914.1
10°	883.4	888.3	892.1	897.1	902.6	908.6	913.6	921.2	923.9	929.4	932.2
12.5°	870.8	879.0	885.6	895.4	904.7	914.1	922.9	932.7	937.6	943.7	947.5
15°	840.1	849.4	858.7	867.5	883.9	902.0	916.3	929.4	936.5	944.2	948.1
17.5°	803.4	809.4	817.1	828.6	844.5	860.4	883.4	902.0	913.0	921.8	922.9
20°	760.6	769.4	774.9	779.3	791.9	802.9	827.5	848.9	863.1	873.5	876.2
22.5°	695.4	704.8	714.1	717.4	727.2	741.5	755.2	778.2	798.5	813.8	823.1
25°	620.9	629.6	642.2	652.1	654.3	665.8	679.6	705.8	726.7	751.3	762.3
27.5°	546.4	554.0	567.7	573.2	579.8	591.3	602.3	624.2	646.1	674.6	686.6
30°	459.2	475.7	491.6	502.0	507.5	521.2	528.8	550.2	570.5	591.3	608.8
32.5°	384.7	399.5	417.6	430.7	437.3	447.7	459.8	477.8	493.7	514.0	534.3
35°	316.2	336.5	348.5	360.1	377.0	382.0	394.0	410.5	419.8	441.7	464.7
37.5°	268.0	280.0	292.1	303.6	317.8	324.4	335.9	349.6	360.6	373.7	394.6
40°	238.4	245.0	253.7	261.4	271.8	280.0	286.1	297.5	305.8	319.0	333.7
42.5°	224.7	226.3	227.4	232.9	238.4	243.8	250.4	255.4	265.3	275.1	284.4
45°	217.0	213.7	212.1	212.6	214.8	218.1	223.6	229.1	235.6	241.7	247.1
47.5°	210.4	206.0	201.1	198.4	198.9	200.0	204.4	208.8	212.1	217.0	219.2
50°	195.1	191.3	186.9	183.1	183.6	184.1	188.0	191.3	193.4	195.1	197.8
52.5°	185.2	179.8	175.9	172.1	171.5	173.2	176.5	179.8	180.8	181.9	182.5
55°	178.1	172.6	167.7	163.9	162.2	166.0	167.2	171.5	173.2	173.2	173.7
57.5°	172.6	166.0	161.1	157.3	154.6	157.3	160.0	164.9	165.5	164.4	164.4
60°	164.4	159.5	154.6	150.7	148.0	150.2	152.3	157.8	157.8	155.1	154.6
62.5°	150.2	147.4	144.1	142.5	142.0	144.1	145.8	150.2	148.5	145.2	144.1
65°	139.7	137.6	134.3	133.1	132.6	135.9	136.4	139.2	137.0	135.4	134.8
67.5°	127.1	125.5	123.8	123.3	121.7	121.7	122.8	124.4	123.3	123.3	123.8
70°	112.9	110.7	109.1	109.6	108.5	108.5	109.1	110.2	109.6	110.7	111.8
72.5°	99.7	97.0	96.4	96.4	95.3	95.9	95.9	96.4	97.6	98.1	100.9
75°	87.1	84.4	84.4	83.8	83.8	83.8	84.4	85.5	86.6	87.1	88.2
77.5°	75.6	74.0	74.5	74.0	74.0	74.0	74.0	75.6	76.2	76.7	78.4
80°	65.2	65.2	65.8	65.8	65.2	64.7	65.2	66.3	66.8	67.4	68.0
82.5°	59.2	59.8	59.8	59.8	57.0	55.9	57.5	58.6	59.8	60.3	61.4
85°	50.9	48.8	50.9	50.4	46.6	46.0	46.0	46.6	47.7	46.6	46.6
87.5°	32.9	29.6	31.3	31.3	27.4	22.4	28.5	30.7	27.4	29.0	29.0
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7
2.5°	886.7	885.6	886.1	886.1	887.2	885.6	887.8	890.0	890.5	890.5	891.1
5°	898.2	897.1	900.9	899.3	903.1	902.6	905.3	907.5	908.6	908.6	908.6
7.5°	916.3	920.1	922.3	928.3	928.9	932.2	934.9	937.6	936.5	937.1	936.5
10°	936.5	941.5	947.0	953.0	953.5	957.4	961.7	964.5	963.4	962.9	961.2
12.5°	954.1	957.4	964.0	970.0	973.3	979.3	983.7	985.9	985.9	984.2	982.6
15°	953.0	957.9	965.0	973.8	979.9	988.6	996.3	1001.2	1001.8	1000.1	999.6
17.5°	928.9	936.0	942.6	954.7	965.6	977.6	990.2	997.4	1004.0	1007.8	1010.0
20°	885.6	894.4	903.7	919.6	934.4	950.2	965.0	975.5	985.3	996.8	1010.5
22.5°	834.6	847.8	860.9	881.2	899.3	917.3	934.4	947.0	962.3	982.0	1007.8
25°	774.9	788.6	805.0	828.6	851.6	877.9	903.1	928.3	957.9	991.9	1031.9
27.5°	704.2	719.5	740.9	769.4	795.7	822.5	862.0	902.0	950.2	994.1	1039.6
30°	634.0	653.8	676.8	705.3	731.6	770.0	809.4	858.7	909.7	959.0	1013.3
32.5°	558.4	583.1	611.6	635.2	664.7	703.6	743.1	795.7	850.0	908.0	967.8
35°	485.5	509.1	531.5	557.9	587.5	624.2	662.5	713.0	781.4	843.4	914.6
37.5°	411.5	433.5	449.3	470.2	496.0	536.5	577.6	635.7	700.4	776.5	847.8
40°	346.9	365.0	383.0	399.5	421.4	459.8	503.6	560.6	624.2	698.2	777.6
42.5°	295.4	309.1	328.8	348.5	367.1	400.0	441.1	497.0	560.0	635.7	715.1
45°	252.1	261.4	277.3	293.8	316.7	344.2	383.6	440.6	504.7	580.9	664.7
47.5°	220.9	225.2	236.2	253.2	274.6	301.4	335.4	386.9	449.3	526.1	614.3
50°	199.5	204.4	209.9	224.2	243.3	270.7	298.7	343.6	400.6	475.7	563.3
52.5°	184.7	186.9	189.1	197.8	215.3	238.4	268.0	302.0	359.5	431.3	510.2
55°	175.9	176.5	178.1	182.5	195.7	217.0	242.8	275.1	320.0	388.0	468.5
57.5°	165.5	166.6	168.2	171.0	179.2	198.4	220.3	246.6	283.9	340.9	418.1
60°	155.6	158.4	161.1	162.8	167.2	178.7	197.3	218.1	248.2	291.0	352.4
62.5°	145.2	148.5	150.7	152.3	154.0	161.1	174.8	188.5	207.1	235.1	281.1
65°	135.9	138.1	139.7	140.8	142.0	144.1	150.2	155.6	161.1	178.1	211.6
67.5°	125.5	126.6	127.1	127.7	127.1	127.1	127.7	129.9	132.1	138.7	154.6
70°	113.5	115.1	115.1	115.6	115.6	114.0	114.0	114.0	114.0	115.6	124.4
72.5°	101.9	104.1	104.1	104.6	104.1	103.6	103.6	103.6	105.2	106.3	109.6
75°	91.0	93.2	92.6	93.2	93.7	93.7	94.8	95.3	97.0	97.6	99.7
77.5°	80.0	81.7	82.2	81.7	82.7	83.8	86.0	87.1	87.7	88.2	88.8
80°	69.6	70.7	70.1	68.5	71.2	72.9	76.2	80.0	78.9	79.4	80.6
82.5°	57.5	55.9	54.8	55.9	57.5	59.8	63.0	68.0	68.5	71.2	70.7
85°	44.4	39.5	38.9	41.6	41.1	43.9	49.3	53.2	56.5	59.2	56.5
87.5°	26.3	23.6	19.7	18.7	20.3	26.9	28.0	34.0	36.7	37.8	34.0
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°	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7
2.5°	940.9	943.7	943.7	944.8	946.4	947.0	949.1	953.0	953.5	953.5	955.2
5°	958.4	961.2	961.2	963.4	964.0	966.7	969.4	973.8	976.0	975.5	982.6
7.5°	986.9	984.8	983.2	986.4	988.1	991.4	996.8	1000.7	1004.5	1010.5	1020.4
10°	1011.1	1007.8	1006.1	1008.4	1009.4	1013.3	1016.6	1022.0	1031.3	1040.7	1052.7
12.5°	1030.8	1027.0	1022.6	1023.7	1025.3	1030.3	1035.7	1042.9	1056.5	1068.6	1086.7
15°	1047.2	1041.8	1037.4	1039.6	1043.4	1050.0	1059.3	1071.9	1094.4	1115.2	1139.3
17.5°	1063.1	1062.1	1060.4	1067.5	1070.3	1085.6	1099.3	1122.3	1153.0	1184.3	1218.8
20°	1078.5	1090.6	1096.6	1110.8	1119.6	1140.4	1161.2	1189.2	1228.1	1270.9	1318.0
22.5°	1099.9	1132.7	1153.0	1182.1	1196.9	1219.3	1250.0	1286.7	1330.0	1384.8	1445.1
25°	1150.8	1199.0	1239.6	1285.1	1322.3	1356.9	1393.6	1438.0	1500.5	1550.3	1629.2
27.5°	1173.3	1241.2	1302.1	1366.2	1422.1	1475.2	1533.4	1587.1	1661.0	1728.4	1823.8
30°	1151.9	1228.6	1307.6	1391.4	1473.1	1553.6	1638.0	1720.2	1805.7	1900.0	2001.4
32.5°	1112.5	1198.5	1287.3	1385.9	1487.3	1592.0	1701.6	1821.1	1941.6	2058.9	2162.5
35°	1072.4	1165.1	1263.7	1376.6	1496.0	1625.9	1761.8	1913.1	2072.6	2221.1	2356.4
37.5°	1014.4	1116.3	1229.2	1359.6	1501.6	1661.6	1836.4	2022.7	2224.4	2428.8	2606.3
40°	944.2	1052.2	1175.5	1325.6	1496.0	1698.3	1925.7	2164.6	2423.8	2673.2	2891.3
42.5°	880.1	985.3	1116.8	1280.2	1481.8	1730.6	2010.7	2308.2	2615.1	2894.0	3179.0
45°	823.7	939.8	1071.9	1248.4	1474.7	1758.0	2073.7	2415.6	2766.9	3099.0	3435.5
47.5°	772.1	892.7	1040.7	1230.8	1471.4	1774.4	2117.5	2485.8	2874.8	3256.3	3647.0
50°	719.0	836.3	994.6	1211.6	1463.2	1773.9	2140.5	2533.4	2950.5	3378.5	3792.8
52.5°	662.0	779.8	938.8	1176.6	1445.6	1764.1	2146.6	2565.8	3010.2	3453.5	3916.6
55°	610.0	720.1	879.0	1117.9	1408.9	1739.9	2132.9	2579.5	3052.4	3528.1	4003.7
57.5°	550.2	664.7	816.0	1037.4	1339.9	1697.2	2093.9	2560.3	3064.5	3578.0	4072.8
60°	468.0	580.3	736.0	942.0	1231.9	1606.7	2021.6	2502.2	3026.1	3586.7	4122.1
62.5°	373.7	470.8	620.9	810.5	1080.1	1464.8	1887.9	2371.8	2906.6	3504.5	4096.9
65°	277.9	342.5	471.8	638.5	904.2	1251.1	1672.5	2153.2	2673.2	3276.0	3938.5
67.5°	193.4	240.0	319.5	443.3	657.6	966.1	1365.1	1811.7	2312.0	2852.9	3609.7
70°	146.3	167.7	211.0	280.0	425.8	658.1	992.5	1390.3	1854.5	2375.6	3088.6
72.5°	124.9	135.9	160.0	191.8	260.9	400.0	623.1	956.8	1368.4	1792.6	2369.6
75°	112.3	121.7	137.0	157.3	184.7	242.8	365.5	605.6	906.4	1200.7	1653.4
77.5°	101.9	110.2	123.8	134.3	149.0	174.8	232.9	362.2	543.1	742.0	1025.9
80°	91.0	95.9	108.5	118.9	130.4	145.2	167.2	227.4	311.8	439.5	605.0
82.5°	77.8	81.7	91.0	105.2	114.0	120.0	126.6	150.7	186.9	238.4	335.9
85°	60.3	63.0	71.2	81.7	85.5	86.0	87.1	93.7	116.2	178.7	289.3
87.5°	30.7	34.0	42.7	46.0	38.9	42.2	42.7	45.5	60.3	98.1	99.7
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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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	915.7	0°
2.5°	955.2	956.8	960.7	960.1	962.9	962.9	962.9	965.6	964.0	965.6	968.3	2.5°
5°	982.6	985.3	990.8	990.8	991.4	991.4	993.0	995.2	992.5	991.4	991.9	5°
7.5°	1022.6	1027.0	1031.3	1035.7	1039.0	1037.4	1037.9	1033.0	1031.9	1028.0	1023.1	7.5°
10°	1061.5	1073.6	1081.8	1089.4	1090.0	1088.3	1088.9	1080.7	1079.0	1071.4	1066.4	10°
12.5°	1101.5	1116.8	1130.0	1138.2	1143.1	1144.3	1144.8	1144.8	1137.1	1130.5	1119.1	12.5°
15°	1160.7	1187.5	1207.8	1216.6	1223.7	1230.3	1231.9	1234.1	1228.1	1219.3	1217.7	15°
17.5°	1254.4	1279.6	1306.4	1330.0	1345.9	1347.0	1360.7	1359.6	1372.2	1362.4	1359.6	17.5°
20°	1365.7	1420.4	1448.4	1479.6	1497.7	1506.5	1538.3	1528.4	1537.7	1553.6	1537.7	20°
22.5°	1504.9	1574.5	1615.0	1657.7	1687.3	1708.7	1731.7	1749.8	1775.0	1787.0	1776.1	22.5°
25°	1689.5	1769.0	1817.2	1876.4	1923.5	1961.9	2001.9	2050.1	2049.5	2078.6	2098.9	25°
27.5°	1901.6	2003.0	2073.1	2177.2	2217.8	2282.5	2351.0	2425.5	2438.6	2476.4	2495.6	27.5°
30°	2101.1	2226.5	2365.7	2489.6	2629.9	2725.8	2805.2	2857.9	2937.4	2917.6	2906.6	30°
32.5°	2285.2	2452.3	2650.7	2854.0	3076.5	3228.3	3368.6	3433.9	3483.2	3378.5	3239.8	32.5°
35°	2524.1	2724.2	2951.0	3202.0	3484.8	3700.1	3844.9	3865.1	3837.2	3702.9	3473.3	35°
37.5°	2820.1	3029.9	3288.1	3553.3	3853.6	4055.8	4220.8	4250.3	4176.4	3936.9	3695.8	37.5°
40°	3112.1	3358.2	3638.2	3952.3	4263.5	4486.0	4651.5	4660.3	4539.7	4259.7	3977.5	40°
42.5°	3431.6	3700.7	4012.6	4360.5	4682.2	4907.5	5026.9	5064.7	4894.3	4535.3	4264.6	42.5°
45°	3707.3	4029.0	4376.4	4746.3	5082.8	5296.5	5418.2	5406.1	5200.1	4845.5	4528.2	45°
47.5°	3975.8	4329.8	4695.9	5088.8	5423.1	5639.0	5764.0	5753.0	5491.6	5083.3	4734.2	47.5°
50°	4214.8	4598.9	4990.2	5410.0	5743.1	5941.0	6093.9	6045.7	5715.2	5274.6	4866.9	50°
52.5°	4380.8	4809.4	5218.1	5671.9	6014.9	6202.4	6396.9	6241.9	5847.2	5391.9	4938.1	52.5°
55°	4486.0	4954.0	5380.4	5882.3	6219.4	6443.5	6569.0	6348.7	5898.2	5424.2	4962.8	55°
57.5°	4557.2	5033.5	5475.7	6004.0	6403.5	6591.5	6622.1	6352.6	5865.4	5373.2	4938.1	57.5°
60°	4592.3	5057.0	5519.0	6089.5	6532.8	6635.9	6580.0	6263.8	5751.9	5223.7	4779.2	60°
62.5°	4588.5	5027.5	5496.5	6118.0	6558.6	6571.7	6444.6	6112.5	5543.1	4909.6	4515.1	62.5°
65°	4490.9	4919.5	5369.9	6012.2	6438.6	6382.1	6222.1	5828.6	5137.0	4499.7	4300.3	65°
67.5°	4209.8	4620.8	5039.0	5665.9	6100.4	6045.7	5803.4	5270.8	4665.2	4136.9	4029.5	67.5°
70°	3739.6	4088.2	4455.3	5006.1	5462.0	5388.1	4964.4	4640.6	4197.8	3717.7	3680.5	70°
72.5°	3126.4	3390.5	3656.9	4066.8	4380.8	4229.5	3963.2	3946.2	3588.4	3221.8	3229.4	72.5°
75°	2445.2	2643.6	2768.0	3009.1	3217.9	3082.6	3098.5	3192.7	3074.9	2786.1	2692.4	75°
77.5°	1771.7	1961.9	2001.4	2144.3	2291.2	2445.2	2649.1	2871.0	2908.3	2746.1	2406.3	77.5°
80°	1159.6	1368.9	1291.1	1342.1	1548.7	1829.8	2201.9	2567.4	2692.9	2547.2	2129.0	80°
82.5°	683.9	977.1	853.3	940.4	1071.4	1316.3	1573.3	1849.0	2058.9	1903.8	1778.3	82.5°
85°	519.5	770.5	816.0	921.8	964.5	974.9	1019.8	1109.7	1218.2	1258.8	1255.5	85°
87.5°	270.7	599.0	672.4	622.0	580.3	503.1	392.4	422.5	386.3	528.3	500.3	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°

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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
915.7	915.7	915.7	915.7	915.7	915.7	915.7
968.9	967.3	968.3	968.9	968.9	968.9	970.0
991.4	986.9	985.3	985.3	984.8	983.2	982.6
1015.4	1007.8	1005.1	1001.8	999.0	997.4	994.6
1058.8	1052.2	1038.5	1030.8	1023.7	1018.7	1014.4
1116.8	1107.5	1094.4	1084.5	1073.6	1070.3	1064.8
1206.7	1198.5	1187.0	1176.0	1169.5	1157.9	1149.7
1347.0	1330.6	1319.0	1304.8	1288.9	1265.3	1253.8
1531.7	1498.8	1475.8	1463.2	1431.4	1427.6	1399.6
1743.8	1733.9	1698.8	1683.5	1652.8	1640.8	1596.9
2061.1	2053.4	1981.6	1973.9	1926.8	1891.7	1823.8
2478.1	2415.1	2334.0	2277.5	2197.0	2106.5	1990.9
2842.5	2713.7	2589.9	2458.4	2347.1	2217.2	2086.3
3074.9	2902.3	2742.8	2608.0	2470.4	2315.9	2147.6
3278.8	3104.5	2930.8	2771.3	2604.7	2406.8	2199.2
3522.6	3349.4	3153.8	2929.7	2716.0	2473.7	2220.0
3772.5	3569.8	3325.3	3050.8	2782.3	2506.6	2216.2
4028.4	3769.2	3444.2	3131.3	2824.4	2511.5	2190.4
4236.1	3908.4	3532.5	3172.4	2833.2	2494.6	2158.1
4383.0	3997.7	3571.9	3186.7	2822.3	2467.7	2114.2
4466.8	4046.5	3581.8	3176.3	2799.8	2429.3	2066.5
4497.5	4061.3	3571.9	3154.9	2779.5	2388.2	2033.1
4494.2	4053.1	3535.7	3105.0	2725.3	2333.4	1992.0
4432.3	3976.9	3461.8	3045.3	2679.2	2308.2	1994.8
4327.1	3928.7	3439.9	3057.4	2703.4	2362.5	2081.3
4279.4	4025.2	3563.2	3177.9	2827.2	2517.5	2260.0
4252.6	4181.9	3739.6	3307.8	2974.1	2705.5	2473.2
4142.9	4226.8	3839.9	3381.8	3105.0	2894.0	2686.3
3965.9	4122.1	3763.7	3367.5	3177.4	3038.7	2763.1
3596.6	3761.5	3424.5	3157.6	3086.9	3040.9	2648.0
2913.8	2999.3	2807.5	2747.2	2773.5	2774.0	2221.1
2148.7	2097.2	2010.7	2015.0	2192.0	2164.6	1583.2
1754.2	1435.8	1313.0	1359.6	1578.2	1460.5	994.6
1632.5	1280.7	1057.1	1068.1	1191.9	940.9	599.0
1320.2	1167.2	936.0	840.1	815.5	626.9	406.6
552.4	508.0	378.1	340.9	279.5	171.0	77.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)