

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: LUMARK

Report Number: P146039

Luminaire Tested: **LDRL-SLR-E03-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146039
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: LUMARK
Catalog Number: LDRL-SLR-E03-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD 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: 7380.2 lumens
Efficiency: N/A
Efficacy: 98.1 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

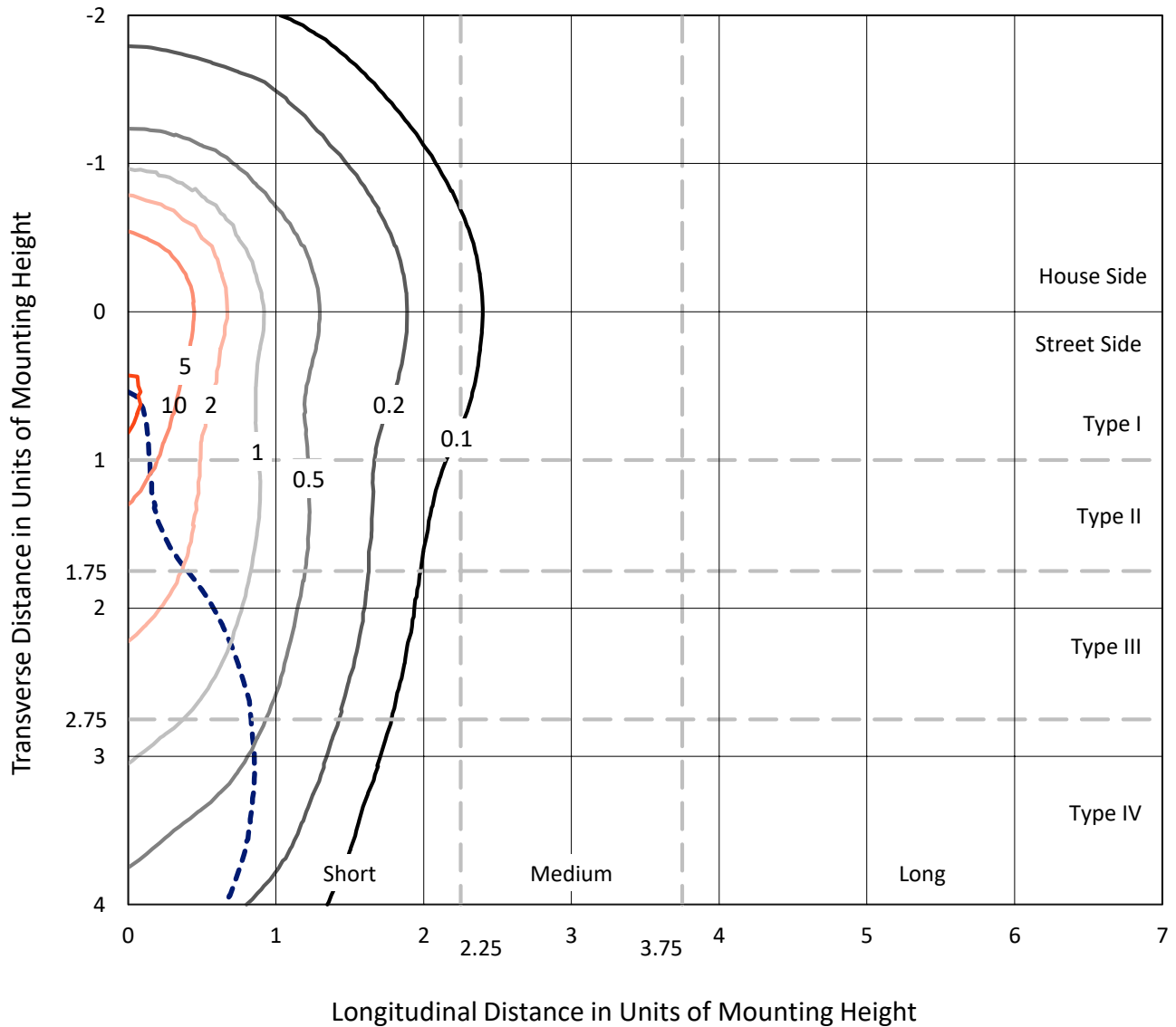


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Iso-Footcandle Lines of Horizontal Illumination

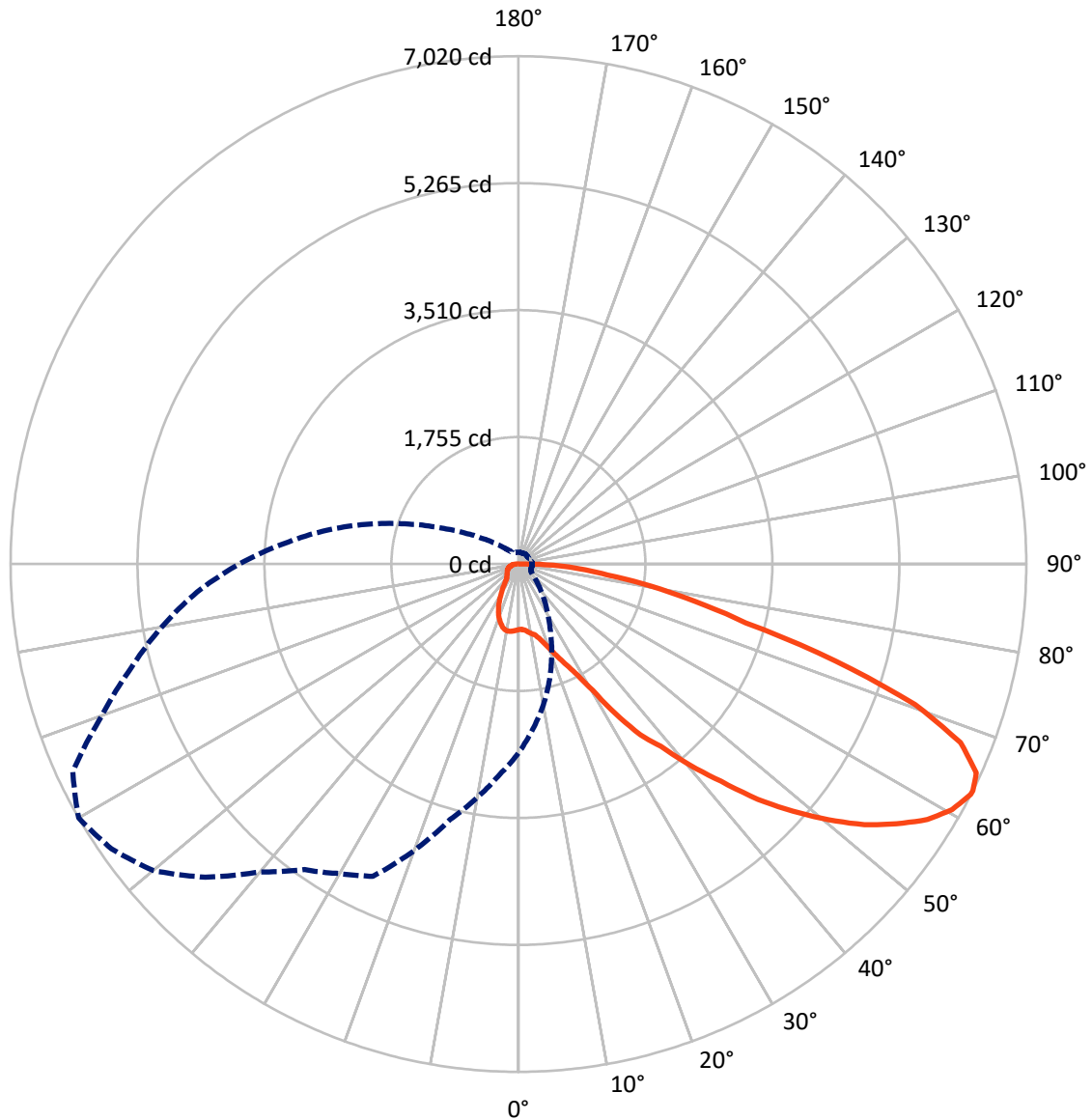
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.6 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	1544.9	0.0	1544.9
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	5835.3	0.0	5835.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	7380.2	0.0	7380.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	89.0	1.2
10°-20°	277.8	3.8
20°-30°	491.3	6.7
30°-40°	775.7	10.5
40°-50°	1140.6	15.5
50°-60°	1502.5	20.4
60°-70°	1674.7	22.7
70°-80°	1100.3	14.9
80°-90°	328.1	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°	7380.2	100.0
0°-180°	7380.2	100.0

Coefficient of Utilization



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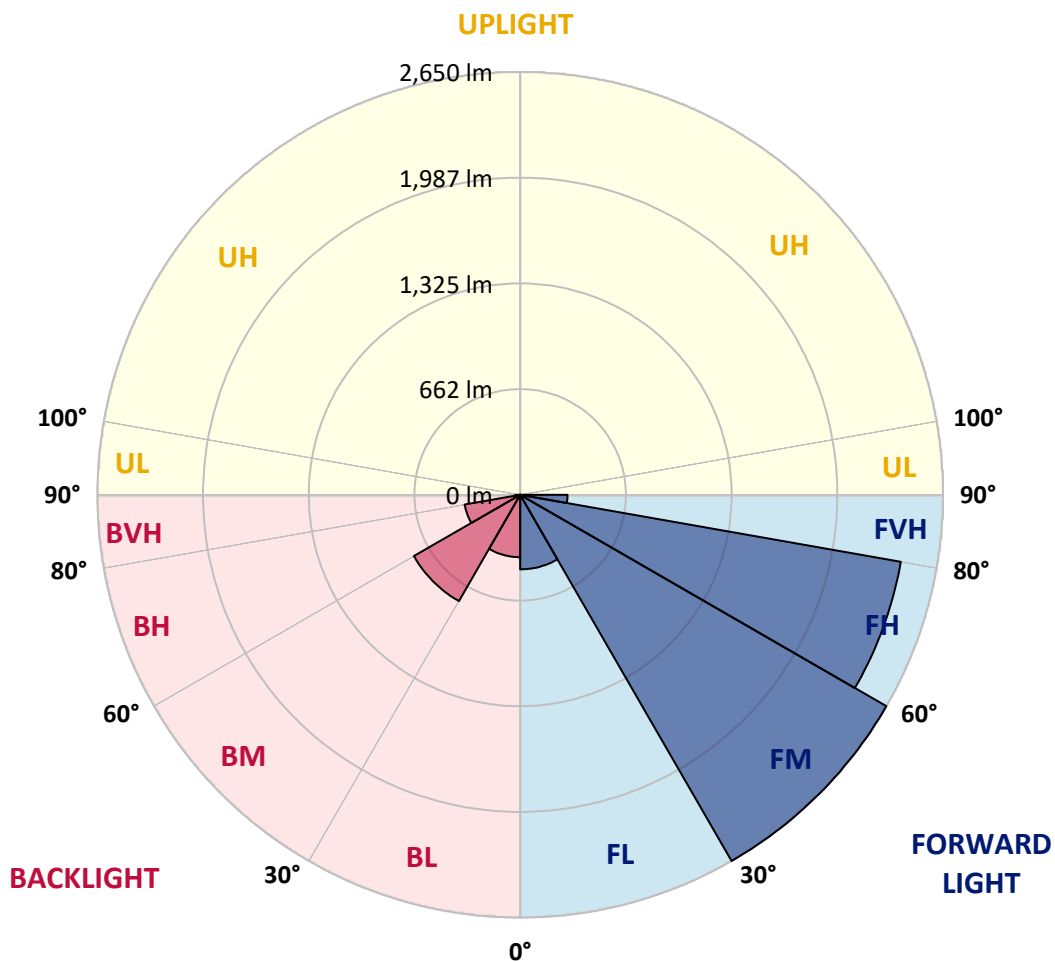
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	467.1	6.3			
FM	(30°-60°)	2649.7	35.9			
FH	(60°-80°)	2421.9	32.8			G2/5000
FVH	(80°-90°)	296.6	4.0			G3/500
BL	(0°-30°)	391.1	5.3	B1/500		
BM	(30°-60°)	769.2	10.4	B1/1000		
BH	(60°-80°)	353.1	4.8	B1/500		G1/500
BVH	(80°-90°)	31.6	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°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	905.3	907.0	907.0	905.3	907.0	906.4	906.4	908.1	908.6	911.3	909.7
5°	900.9	901.5	902.0	900.9	901.5	901.5	902.6	904.2	904.8	908.1	906.4
7.5°	896.0	897.1	894.9	895.4	897.1	899.3	899.3	901.5	905.3	907.0	906.4
10°	898.7	897.6	896.0	895.4	896.5	897.1	898.2	902.0	905.3	907.0	909.7
12.5°	920.1	916.8	915.2	914.6	915.2	914.1	917.9	919.0	920.1	922.3	921.2
15°	960.7	956.3	953.5	950.8	956.8	954.1	954.1	950.8	945.3	937.1	926.7
17.5°	1017.1	1012.2	1010.0	1008.9	1009.4	1004.5	994.6	978.7	959.6	937.6	917.4
20°	1098.2	1105.9	1102.6	1087.8	1082.3	1060.4	1029.2	996.3	962.9	927.8	894.4
22.5°	1238.5	1234.1	1219.3	1182.6	1149.7	1100.4	1044.5	991.4	942.0	891.1	847.2
25°	1401.3	1364.5	1322.9	1250.6	1174.9	1093.8	1013.3	950.2	884.5	828.6	776.0
27.5°	1600.7	1521.3	1415.0	1297.1	1184.3	1076.3	980.9	897.6	822.6	762.8	704.2
30°	1796.9	1664.3	1516.3	1360.2	1207.8	1062.0	936.0	839.6	753.0	676.2	617.1
32.5°	1932.8	1772.3	1588.1	1395.2	1210.0	1039.0	886.7	771.6	674.1	596.8	525.5
35°	2044.6	1844.1	1613.3	1389.8	1174.9	985.3	816.0	688.3	584.7	504.7	442.2
37.5°	2121.3	1880.8	1611.7	1358.0	1112.5	899.8	734.9	605.0	508.6	434.0	376.5
40°	2175.1	1892.3	1590.3	1303.7	1040.7	817.1	648.3	529.9	445.5	387.4	345.8
42.5°	2200.8	1884.6	1558.5	1252.2	969.4	750.2	583.1	479.5	411.0	367.2	336.5
45°	2211.8	1866.0	1522.9	1201.8	911.3	692.7	549.7	464.2	410.5	372.6	339.2
47.5°	2209.0	1845.7	1491.1	1160.1	876.8	677.3	556.2	485.0	430.7	383.6	340.9
50°	2201.4	1827.1	1470.9	1144.8	876.3	700.4	592.9	520.1	454.3	393.5	339.2
52.5°	2200.8	1825.4	1481.8	1162.9	908.1	752.4	648.3	560.6	477.3	404.4	339.8
55°	2214.0	1855.0	1528.4	1211.7	984.8	825.3	710.8	603.9	503.1	412.1	338.1
57.5°	2267.1	1929.0	1616.6	1320.7	1083.4	914.1	771.1	636.2	512.9	409.9	330.5
60°	2383.8	2058.9	1752.5	1474.7	1210.0	995.2	806.7	647.2	508.6	396.8	314.0
62.5°	2565.8	2246.8	1938.9	1625.9	1322.3	1044.0	814.9	638.4	491.0	374.8	293.7
63°	2612.4	2290.1	1976.7	1657.2	1341.5	1048.9	814.3	635.1	486.1	369.4	288.8
65°	2806.9	2475.9	2128.5	1760.2	1393.0	1058.8	801.7	614.3	464.2	343.6	266.3
67.5°	3099.5	2680.9	2279.2	1856.1	1421.5	1041.2	762.3	562.8	407.7	298.7	232.9
70°	3294.6	2816.8	2369.0	1887.3	1388.1	961.2	671.9	471.8	333.2	246.1	198.9
72.5°	3299.6	2695.1	2247.4	1725.1	1198.5	793.0	526.1	356.8	259.2	200.0	171.5
75°	2947.2	2277.5	1836.9	1416.6	922.3	560.6	369.9	260.3	198.9	165.0	148.5
77.5°	2190.9	1661.6	1325.6	953.0	599.0	363.3	257.6	192.9	157.8	136.5	124.4
80°	1359.6	1038.5	804.5	569.9	358.9	241.7	188.5	153.4	132.6	114.0	104.1
82.5°	819.8	581.4	454.3	344.2	229.6	174.3	145.2	129.3	112.3	95.9	88.2
85°	600.6	415.9	304.7	212.6	141.9	115.1	101.9	98.6	87.1	74.0	69.6
87.5°	189.1	198.4	206.1	125.5	68.5	52.1	44.4	52.1	49.9	35.1	38.4
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°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	912.4	914.6	913.0	913.0	911.9	911.3	915.2	914.1	915.2	914.6	915.7
5°	909.1	910.8	909.7	910.8	909.7	909.7	914.6	914.6	916.8	917.9	920.7
7.5°	910.2	910.8	910.2	911.9	910.8	909.7	912.4	914.1	917.9	921.2	923.9
10°	914.1	915.7	915.2	915.2	911.9	909.7	911.3	912.4	916.3	917.9	921.2
12.5°	923.4	921.2	916.8	914.1	906.4	902.0	899.8	898.7	901.5	903.7	905.3
15°	921.2	909.1	899.3	891.1	879.6	872.4	867.0	866.4	867.0	867.5	869.1
17.5°	898.7	882.3	862.6	852.2	839.0	831.3	827.5	824.8	824.2	825.3	828.0
20°	866.4	842.3	820.4	802.3	788.0	776.0	778.7	772.7	775.4	777.1	782.0
22.5°	817.1	783.7	758.4	736.5	719.5	706.9	706.9	701.5	702.5	707.5	714.1
25°	737.1	705.8	669.7	654.3	635.1	626.4	624.7	623.6	628.0	634.0	637.9
27.5°	664.7	622.0	586.4	566.1	545.8	548.0	537.0	543.6	548.6	553.5	557.9
30°	567.2	532.1	499.8	479.5	455.4	455.9	457.6	458.7	463.1	469.6	478.4
32.5°	473.5	435.7	405.5	383.6	369.4	365.0	358.9	368.8	374.3	380.9	389.6
35°	396.2	356.8	331.5	312.4	304.1	298.1	296.5	295.4	300.3	303.6	310.7
37.5°	340.9	314.0	295.4	281.7	274.0	267.4	265.8	264.7	264.1	263.0	267.4
40°	318.4	297.0	281.1	268.5	261.4	257.6	255.9	253.7	251.5	248.8	248.2
42.5°	311.8	288.8	270.2	257.6	252.1	251.5	251.5	250.4	248.2	244.4	241.7
45°	309.1	281.1	259.8	249.9	246.1	246.6	246.6	246.6	245.0	241.1	236.7
47.5°	304.1	271.8	249.9	241.7	240.0	241.1	242.2	242.2	241.1	237.8	232.9
50°	294.8	257.6	234.5	226.9	226.3	226.9	226.9	228.0	226.9	224.1	219.8
52.5°	287.7	246.6	223.0	217.0	217.0	216.5	215.9	215.9	215.4	213.2	209.9
55°	281.1	239.5	218.1	213.2	214.3	214.3	213.2	212.6	210.4	207.7	204.4
57.5°	271.8	231.8	213.2	209.9	211.0	210.4	209.9	209.3	207.1	203.9	199.5
60°	255.4	218.1	203.3	201.1	202.8	203.3	205.5	206.1	205.0	201.1	195.1
62.5°	237.3	201.1	190.2	188.5	190.2	191.8	193.4	192.4	192.4	188.5	183.0
63°	231.3	198.4	186.3	186.3	188.0	189.6	190.7	189.6	190.2	185.8	180.3
65°	217.6	188.5	179.2	179.7	181.4	182.5	183.0	183.0	182.5	179.2	174.3
67.5°	194.5	174.3	168.8	171.5	173.7	174.3	174.3	175.4	174.3	172.1	167.7
70°	173.7	160.6	156.7	160.0	161.1	161.7	161.7	161.7	160.6	158.4	154.5
72.5°	157.8	151.3	150.7	150.2	150.7	149.1	149.1	148.0	145.2	143.6	140.3
75°	140.3	137.0	137.6	137.0	135.9	135.4	132.6	131.5	128.2	126.0	121.7
77.5°	120.6	121.1	120.6	121.1	122.2	122.8	118.9	116.2	113.4	111.2	109.1
80°	100.3	101.4	100.3	101.4	101.9	101.9	98.1	93.7	91.5	93.2	93.7
82.5°	89.3	89.3	84.9	86.0	84.9	83.3	80.6	78.9	77.3	76.2	78.9
85°	70.7	71.2	72.3	71.2	69.0	67.4	64.7	62.5	60.8	62.5	66.3
87.5°	42.2	45.5	43.8	43.8	43.3	43.3	41.1	40.0	38.4	44.9	48.2
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°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	915.2	916.8	917.4	916.8	917.4	918.5	914.1	918.5	919.0	915.7	916.8
5°	922.8	925.6	929.4	929.4	932.2	933.8	931.6	937.6	938.7	938.2	940.9
7.5°	928.3	932.2	937.1	939.8	944.8	947.0	948.6	954.1	955.2	957.4	959.6
10°	927.8	933.3	937.6	945.3	951.3	955.7	959.0	965.0	967.2	970.5	972.2
12.5°	911.9	917.9	926.1	937.1	948.1	955.2	963.9	972.7	976.0	980.4	983.1
15°	876.3	881.2	892.7	907.0	921.8	939.8	952.4	966.1	972.2	976.6	980.4
17.5°	829.7	834.1	844.5	857.1	876.8	894.4	913.5	934.4	944.8	949.7	951.3
20°	786.4	793.0	795.7	810.5	817.1	834.6	851.1	874.1	887.2	896.0	901.5
22.5°	718.4	721.7	736.0	742.0	746.9	757.9	778.2	798.5	816.0	830.2	834.6
25°	643.4	652.1	659.8	664.7	676.2	676.8	693.2	707.5	729.4	743.1	754.1
27.5°	560.6	573.8	578.2	581.4	590.2	600.6	606.6	620.9	633.5	649.4	669.1
30°	477.3	489.9	498.7	503.6	511.8	521.7	526.1	535.4	551.8	569.4	584.7
32.5°	399.5	412.7	417.0	432.9	435.1	444.4	447.7	462.5	471.8	486.6	504.7
35°	323.3	337.0	350.2	358.9	368.8	368.3	377.0	390.7	399.0	414.3	426.4
37.5°	271.3	279.5	288.8	298.7	309.6	317.8	326.1	332.1	338.7	349.1	360.0
40°	248.2	250.4	254.3	260.3	268.0	274.0	280.0	285.0	289.9	298.1	305.2
42.5°	238.9	237.3	237.3	236.2	238.9	242.2	247.2	248.8	256.5	261.4	264.1
45°	232.4	228.5	225.8	222.5	221.4	222.5	225.2	229.1	234.0	235.6	235.6
47.5°	228.5	222.5	218.1	213.2	210.4	210.4	212.1	214.8	217.6	218.1	217.6
50°	215.4	209.3	203.9	199.5	197.3	197.3	197.8	201.7	202.2	201.1	201.7
52.5°	205.5	199.5	194.0	190.2	187.4	188.0	189.6	191.3	192.9	191.8	190.7
55°	199.5	192.4	187.4	183.0	179.7	180.8	182.5	184.7	187.4	185.8	184.1
57.5°	194.0	188.0	181.9	177.6	173.7	174.8	176.5	179.7	183.0	179.7	177.6
60°	189.1	183.0	177.0	172.6	168.2	169.3	171.5	174.8	177.6	173.2	170.4
62.5°	177.0	171.5	167.1	165.0	162.2	163.9	165.5	169.3	168.2	163.9	160.6
63°	174.8	169.3	165.5	163.3	161.1	163.3	163.9	167.7	166.0	161.7	158.9
65°	168.2	163.9	160.0	157.8	155.6	156.7	156.7	158.4	156.2	152.9	150.7
67.5°	162.2	157.3	153.4	149.1	146.9	145.8	145.2	144.7	143.0	141.4	140.8
70°	149.1	145.8	142.5	138.6	135.4	133.2	132.1	131.0	129.9	129.3	128.8
72.5°	134.8	132.1	128.8	126.6	123.9	122.2	119.5	118.9	117.8	116.7	116.2
75°	119.5	116.2	115.1	112.9	111.2	110.2	108.0	107.4	106.3	104.7	104.1
77.5°	105.8	104.7	103.0	102.5	99.7	98.1	97.0	96.4	95.4	94.3	93.2
80°	94.3	93.7	92.6	92.1	90.4	88.2	87.1	87.7	86.0	85.5	83.8
82.5°	84.9	85.5	85.5	83.8	82.2	79.5	78.4	80.0	78.9	76.7	74.5
85°	72.3	71.8	72.3	71.8	68.5	65.8	64.7	65.8	65.2	61.9	61.4
87.5°	51.5	51.0	49.9	53.2	48.8	39.5	40.6	46.0	44.4	42.7	41.6
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°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	919.0	917.4	918.5	919.0	917.4	921.2	917.4	917.9	919.0	915.7	915.2
5°	943.1	943.1	947.5	948.1	947.5	952.4	951.9	952.4	951.3	950.8	948.6
7.5°	962.9	965.0	968.3	973.3	974.9	978.7	979.8	980.4	982.6	984.8	983.7
10°	977.1	983.1	985.9	990.8	995.7	998.5	1001.2	1005.6	1007.2	1008.9	1006.7
12.5°	987.0	994.1	998.5	1004.5	1010.5	1014.9	1019.8	1025.3	1030.8	1032.5	1029.7
15°	982.0	990.3	996.8	1003.4	1012.7	1020.9	1030.3	1040.1	1047.2	1050.0	1046.7
17.5°	951.3	959.6	969.4	979.3	989.2	1004.5	1017.7	1034.1	1045.6	1053.8	1054.9
20°	909.1	914.1	928.3	938.2	954.1	972.2	991.9	1011.1	1024.2	1039.0	1047.8
22.5°	846.7	856.5	872.4	889.4	905.3	928.9	949.7	974.9	997.4	1017.7	1036.8
25°	770.5	784.2	802.8	826.4	847.2	872.4	902.6	930.5	968.3	1000.1	1041.2
27.5°	688.3	713.5	739.3	763.9	786.9	815.4	846.7	877.9	921.2	972.2	1025.9
30°	610.5	631.3	663.6	692.1	719.0	754.1	786.4	820.9	862.0	922.3	983.1
32.5°	529.4	546.4	571.6	606.6	637.9	679.0	707.5	748.6	796.3	859.8	928.9
35°	445.5	469.1	489.4	513.5	537.0	578.2	620.9	666.4	721.2	789.1	864.8
37.5°	371.6	386.3	396.2	420.9	441.7	476.8	526.6	581.4	641.7	710.8	791.9
40°	310.2	319.5	330.5	346.9	364.4	396.2	442.2	503.6	566.6	635.7	716.8
42.5°	268.0	274.0	275.1	287.7	304.1	335.4	372.1	428.5	498.1	570.5	651.6
45°	238.9	238.9	238.4	243.9	257.0	283.9	317.3	367.7	434.0	509.6	594.0
47.5°	218.7	220.3	219.8	221.9	230.7	250.4	280.6	323.3	383.6	457.6	542.5
50°	203.3	205.5	206.1	206.6	209.9	226.3	252.1	286.6	340.3	411.0	496.5
52.5°	191.3	191.8	191.8	191.3	192.4	201.7	223.0	254.8	304.7	368.3	450.5
55°	184.7	185.2	185.2	185.2	185.2	191.3	206.6	232.4	272.4	332.1	406.6
57.5°	177.0	177.0	178.1	178.1	178.1	180.3	191.3	212.6	243.3	291.0	357.3
60°	170.4	172.1	174.3	174.8	174.3	174.3	179.7	194.0	214.3	248.8	304.7
62.5°	160.6	162.8	165.5	166.6	167.1	166.0	168.8	174.8	186.9	205.0	242.8
63°	158.9	161.1	163.3	164.4	165.0	163.9	166.0	171.0	180.8	195.6	229.6
65°	151.8	154.5	155.1	155.6	155.1	154.5	154.0	154.0	156.7	162.2	180.3
67.5°	141.9	143.6	143.6	144.7	141.9	140.8	139.7	138.6	137.0	137.6	144.1
70°	130.4	131.5	131.0	130.4	129.3	127.7	126.6	124.9	121.7	120.6	123.9
72.5°	117.3	118.4	118.4	118.4	116.2	115.1	114.0	112.9	111.8	112.9	114.0
75°	105.2	105.2	106.3	105.8	104.1	103.0	102.5	101.9	101.9	101.9	101.4
77.5°	93.7	93.2	93.2	91.5	90.4	89.9	91.0	91.5	91.0	89.9	89.3
80°	83.8	81.1	78.4	76.2	75.6	76.7	77.8	81.1	79.5	79.5	78.4
82.5°	71.2	65.2	61.4	61.9	60.3	60.8	61.9	65.8	64.7	65.2	67.4
85°	57.0	51.5	45.5	46.6	46.6	45.5	48.2	49.3	50.4	53.2	51.0
87.5°	40.0	35.1	29.0	25.2	26.3	27.4	28.5	27.4	24.1	25.2	24.7
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4
2.5°	914.1	914.6	914.6	910.8	909.7	910.8	910.2	910.2	907.0	907.5	906.4
5°	947.5	948.6	945.3	942.6	938.7	938.2	937.6	935.5	933.3	928.9	926.7
7.5°	983.1	978.2	977.1	972.2	970.5	966.1	962.9	959.6	956.8	954.6	953.0
10°	1005.6	1001.8	1000.7	991.9	989.2	983.7	980.4	976.6	973.3	970.0	969.4
12.5°	1025.9	1019.3	1015.5	1003.4	997.9	991.9	989.2	985.9	984.8	984.2	986.4
15°	1041.8	1032.5	1025.3	1014.4	1010.0	1006.7	1007.2	1005.6	1012.2	1016.0	1023.1
17.5°	1052.2	1048.3	1046.7	1038.5	1041.2	1041.2	1048.9	1052.7	1064.8	1074.6	1084.5
20°	1057.7	1064.8	1078.5	1081.2	1087.8	1094.9	1106.4	1113.0	1125.6	1139.9	1153.6
22.5°	1062.6	1092.7	1120.7	1141.5	1156.3	1172.7	1181.0	1194.7	1203.4	1213.8	1234.7
25°	1090.0	1140.4	1189.7	1216.6	1251.7	1275.2	1293.9	1307.6	1322.9	1331.7	1355.2
27.5°	1082.3	1146.4	1212.2	1261.5	1316.3	1360.7	1400.2	1426.5	1446.2	1478.0	1497.7
30°	1047.2	1121.8	1201.2	1271.4	1348.1	1420.4	1488.9	1550.3	1602.9	1645.7	1674.7
32.5°	997.4	1082.9	1176.0	1262.6	1360.7	1457.2	1555.8	1649.5	1738.8	1809.5	1853.9
35°	941.5	1033.5	1136.6	1239.1	1356.9	1482.9	1616.1	1742.1	1871.5	1984.3	2073.1
37.5°	873.5	973.3	1086.2	1205.1	1340.4	1491.7	1659.4	1830.9	1995.9	2166.8	2291.8
40°	802.3	899.8	1017.1	1153.0	1309.2	1487.3	1692.8	1915.3	2154.2	2374.5	2564.7
42.5°	741.5	836.8	959.6	1093.8	1262.1	1470.9	1715.3	1990.9	2285.2	2570.7	2823.3
45°	681.7	783.7	907.5	1049.4	1233.0	1464.3	1744.3	2056.7	2392.6	2731.3	3053.5
47.5°	634.6	735.4	860.4	1012.7	1209.5	1460.4	1771.7	2118.1	2480.3	2850.7	3232.7
50°	589.7	686.1	807.8	968.3	1184.8	1454.4	1788.2	2166.8	2548.8	2944.5	3359.9
52.5°	543.6	643.9	762.3	917.9	1152.5	1442.4	1793.1	2205.2	2619.5	3034.3	3478.8
55°	497.0	597.3	715.7	876.8	1108.6	1418.8	1789.3	2233.1	2693.5	3129.1	3587.3
57.5°	440.1	538.7	662.5	824.8	1052.2	1371.7	1770.6	2245.2	2739.5	3217.9	3696.3
60°	375.9	469.1	586.4	751.9	983.1	1303.7	1729.0	2228.2	2760.3	3276.6	3812.0
62.5°	295.4	376.5	484.4	648.8	882.8	1205.6	1638.0	2153.1	2709.9	3261.8	3861.8
63°	277.3	355.7	466.9	621.4	853.3	1171.6	1611.2	2127.4	2687.4	3248.1	3855.8
65°	211.5	269.6	361.7	499.8	721.2	1014.9	1469.8	1981.6	2546.1	3111.6	3761.0
67.5°	156.2	186.3	242.8	335.4	507.5	789.7	1204.5	1711.4	2245.7	2777.3	3438.2
70°	129.3	140.8	167.1	214.8	314.0	523.9	851.1	1302.6	1805.1	2262.7	2859.5
72.5°	115.6	123.9	135.9	157.3	198.4	307.4	553.5	845.6	1257.1	1652.8	2157.0
75°	103.6	109.1	118.9	131.5	150.2	192.4	292.6	501.4	768.3	1113.6	1479.6
77.5°	91.0	96.4	106.3	116.2	128.2	146.3	181.4	285.5	459.8	649.9	908.1
80°	78.9	81.7	89.9	104.1	112.9	127.7	139.2	178.7	250.4	340.3	483.9
82.5°	65.2	65.8	71.2	82.2	93.2	98.6	101.9	112.3	144.1	179.7	237.3
85°	46.6	44.4	47.7	52.1	60.8	55.9	59.7	63.0	76.7	92.6	169.9
87.5°	20.8	16.4	19.2	21.4	19.2	13.2	19.2	15.9	19.7	38.9	43.8
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	906.4	0°
2.5°	907.5	904.2	904.2	903.7	904.2	903.1	900.9	900.9	902.6	902.0	902.0	2.5°
5°	926.7	922.3	921.2	920.7	920.7	917.9	914.6	913.0	912.4	910.2	908.6	5°
7.5°	951.9	949.2	950.8	947.5	946.4	945.9	941.5	938.2	933.3	931.1	922.8	7.5°
10°	972.7	971.1	975.5	974.9	975.5	975.5	969.4	966.1	959.0	955.2	944.8	10°
12.5°	990.8	991.9	1000.1	1000.1	1001.8	1004.0	1000.7	993.5	990.8	987.0	976.0	12.5°
15°	1036.8	1041.2	1047.2	1057.1	1059.9	1060.4	1063.1	1057.1	1050.0	1040.1	1027.0	15°
17.5°	1099.3	1108.1	1128.4	1142.6	1145.3	1148.1	1146.4	1145.3	1132.2	1124.0	1110.3	17.5°
20°	1177.7	1199.0	1227.5	1247.3	1256.0	1257.1	1268.1	1260.4	1248.4	1231.9	1212.2	20°
22.5°	1265.4	1301.0	1337.1	1366.2	1383.2	1390.8	1402.4	1391.4	1375.5	1365.6	1339.3	22.5°
25°	1385.4	1424.3	1465.9	1488.9	1532.2	1544.8	1551.4	1548.1	1531.7	1538.8	1514.7	25°
27.5°	1549.8	1583.2	1641.8	1670.9	1711.4	1735.0	1730.1	1757.5	1762.4	1779.4	1782.1	27.5°
30°	1729.0	1784.3	1863.2	1921.9	1983.8	2023.8	2055.6	2079.7	2107.6	2154.8	2183.3	30°
32.5°	1922.4	2002.4	2103.3	2227.7	2359.2	2466.6	2587.7	2608.5	2671.0	2652.9	2640.9	32.5°
35°	2137.8	2238.6	2368.0	2531.3	2722.5	2900.1	3016.8	3075.4	3100.1	3113.8	3030.5	35°
37.5°	2426.0	2562.5	2706.6	2884.7	3031.0	3197.1	3331.4	3477.1	3544.0	3512.2	3352.7	37.5°
40°	2745.5	2873.2	3068.3	3214.1	3386.7	3660.2	3842.1	4017.5	4072.3	3966.5	3716.6	40°
42.5°	3066.1	3241.5	3453.0	3660.2	3858.5	4106.2	4347.4	4520.5	4580.8	4400.0	4103.5	42.5°
45°	3351.6	3576.3	3825.1	4037.7	4315.0	4638.9	4934.3	5073.5	5062.5	4772.1	4438.3	45°
47.5°	3600.4	3892.0	4172.5	4459.2	4738.6	5104.2	5396.8	5556.8	5443.4	5138.1	4760.0	47.5°
50°	3805.9	4158.3	4497.0	4826.3	5169.4	5557.9	5840.1	5988.1	5815.5	5429.1	5006.6	50°
52.5°	3962.1	4398.9	4789.1	5157.3	5567.2	5987.0	6238.0	6327.3	6058.3	5654.4	5191.3	52.5°
55°	4109.5	4603.3	5035.1	5453.2	5963.4	6339.9	6575.0	6558.6	6211.1	5752.5	5306.9	55°
57.5°	4220.8	4777.6	5237.3	5713.6	6263.2	6665.4	6801.4	6692.8	6274.7	5781.5	5340.4	57.5°
60°	4361.1	4913.5	5417.1	5948.7	6548.2	6888.5	6906.6	6712.0	6256.6	5726.7	5293.2	60°
62.5°	4450.9	4998.4	5531.6	6109.8	6765.2	7014.0	6884.7	6629.3	6152.5	5591.3	5185.3	62.5°
63°	4459.7	5006.6	5540.9	6125.7	6795.9	7019.5	6864.4	6592.0	6121.8	5554.1	5156.8	63°
65°	4420.3	4983.1	5498.2	6097.2	6803.5	6954.8	6715.9	6439.1	5952.5	5363.9	4989.1	65°
67.5°	4144.6	4729.9	5221.4	5783.2	6507.6	6591.5	6352.0	6051.1	5594.1	4954.0	4622.5	67.5°
70°	3650.8	4207.1	4555.6	5077.3	5714.7	5814.9	5600.7	5367.8	4961.7	4426.8	4151.7	70°
72.5°	2941.2	3487.5	3696.9	4096.4	4602.7	4580.8	4430.1	4401.1	4187.3	3738.5	3573.0	72.5°
75°	2198.6	2718.7	2806.9	2969.7	3252.4	3245.3	3280.4	3405.3	3512.2	3247.0	3034.9	75°
77.5°	1450.0	1967.4	2022.2	2211.8	2290.1	2505.0	2757.0	3071.0	3226.7	3118.2	2857.9	77.5°
80°	802.3	1345.9	1335.0	1408.9	1547.6	1859.9	2241.9	2708.3	3019.5	2941.7	2656.8	80°
82.5°	417.0	850.5	837.9	851.1	979.8	1242.3	1532.8	1914.2	2235.9	2243.0	2147.1	82.5°
85°	310.2	610.5	646.7	676.2	761.7	853.3	906.4	1028.6	1205.1	1369.5	1428.1	85°
87.5°	114.0	366.6	456.5	490.5	492.7	481.2	391.8	431.3	392.4	464.2	648.3	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°
906.4	906.4	906.4	906.4	906.4	906.4	906.4
903.1	903.1	902.6	903.7	904.2	905.9	905.3
907.0	905.3	903.7	902.6	901.5	902.0	900.9
916.8	911.3	907.0	903.1	899.8	899.3	896.0
938.7	928.9	920.7	914.6	908.1	904.8	898.7
966.7	955.7	945.3	936.5	928.9	924.5	920.1
1015.5	999.6	987.0	977.7	970.0	965.0	960.7
1087.8	1068.1	1048.9	1030.8	1028.6	1017.1	1017.1
1187.5	1160.7	1136.0	1120.7	1113.6	1098.2	1098.2
1325.6	1299.3	1262.6	1244.0	1245.6	1232.5	1238.5
1504.3	1482.4	1444.6	1436.9	1436.9	1422.6	1401.3
1772.3	1764.6	1722.9	1733.4	1711.4	1658.3	1600.7
2170.1	2170.1	2089.6	2031.5	1981.1	1898.3	1796.9
2568.5	2516.5	2393.2	2294.5	2189.8	2063.3	1932.8
2905.0	2766.4	2641.4	2520.8	2363.6	2227.7	2044.6
3188.9	3057.3	2914.3	2730.7	2546.1	2356.4	2121.3
3540.7	3380.7	3165.9	2935.1	2708.3	2447.4	2175.1
3862.4	3661.8	3390.5	3098.4	2809.6	2518.7	2200.8
4164.9	3906.2	3571.4	3220.7	2891.8	2562.5	2211.8
4449.8	4103.0	3713.3	3307.8	2948.3	2586.1	2209.0
4637.8	4247.1	3802.6	3360.4	2982.3	2594.3	2201.4
4755.6	4335.3	3855.3	3389.4	2999.3	2595.9	2200.8
4821.9	4385.2	3883.7	3409.7	3017.9	2605.8	2214.0
4873.5	4424.6	3915.5	3444.2	3062.3	2651.8	2267.1
4922.2	4528.2	3998.3	3507.8	3139.6	2737.9	2383.8
4942.5	4724.9	4166.5	3625.1	3247.5	2876.0	2565.8
4940.9	4762.2	4215.3	3657.4	3276.0	2912.7	2612.4
4881.1	4880.6	4437.2	3812.0	3408.6	3082.6	2806.9
4704.1	4939.8	4682.7	4015.8	3614.7	3362.6	3099.5
4424.1	4868.0	4716.2	4069.5	3761.0	3619.6	3294.6
3941.8	4524.9	4403.3	3840.5	3711.1	3670.0	3299.6
3188.3	3637.7	3585.6	3280.9	3328.6	3413.0	2947.2
2568.5	2554.3	2546.6	2435.9	2638.7	2810.2	2190.9
2145.5	1767.3	1641.3	1598.5	1932.8	2064.4	1359.6
2005.7	1587.6	1273.6	1219.9	1448.4	1518.5	819.8
1532.8	1541.6	1334.4	1143.7	1126.7	1031.4	600.6
750.2	762.8	806.1	736.0	631.3	532.1	189.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)