

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: P146047

Luminaire Tested: **LDRL-SLR-F03-E-7060**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P146047  
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-F03-E-7060  
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (21) 5700K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6844.6 lumens  
Efficiency: N/A  
Efficacy: 87.4 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

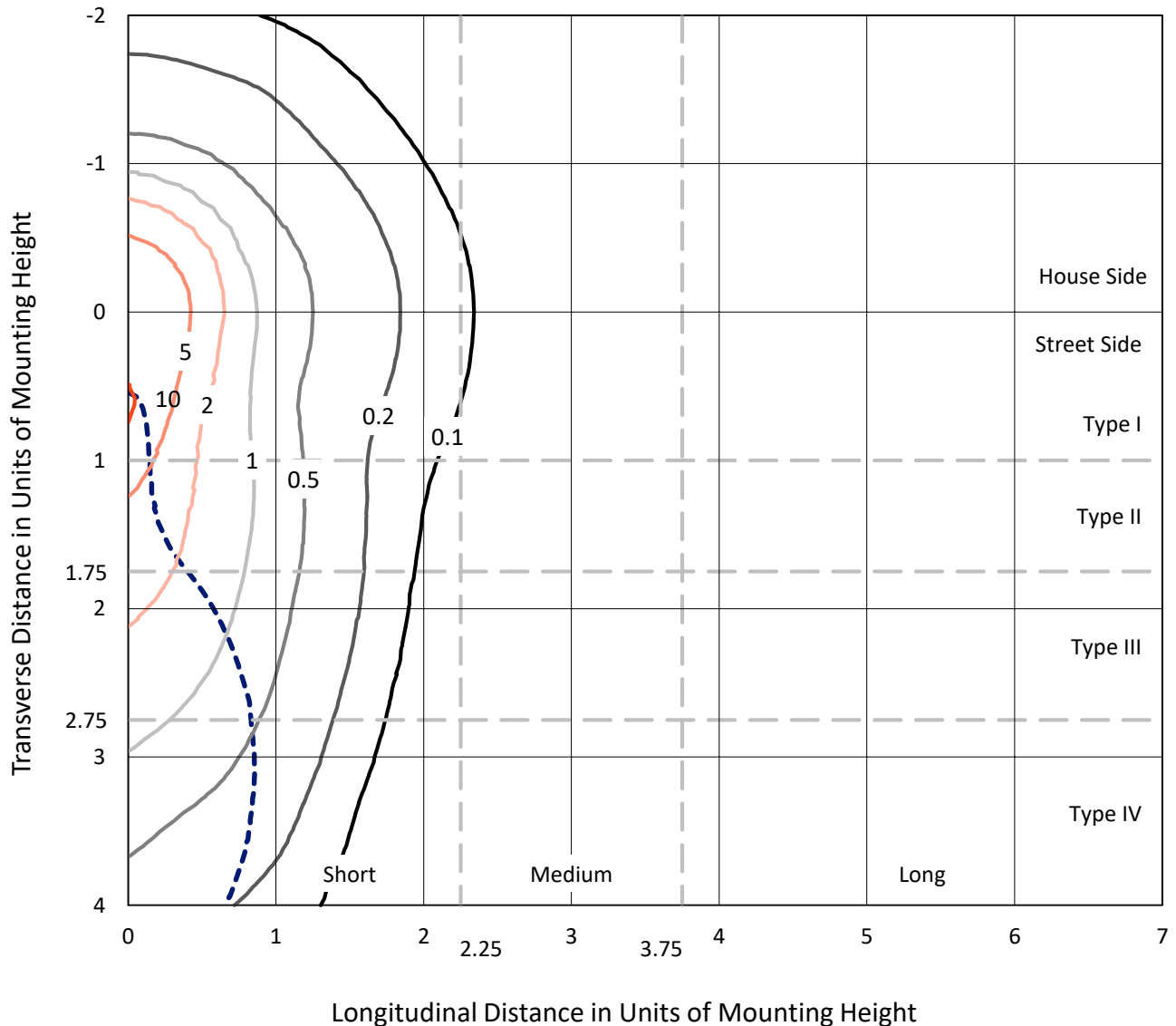
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

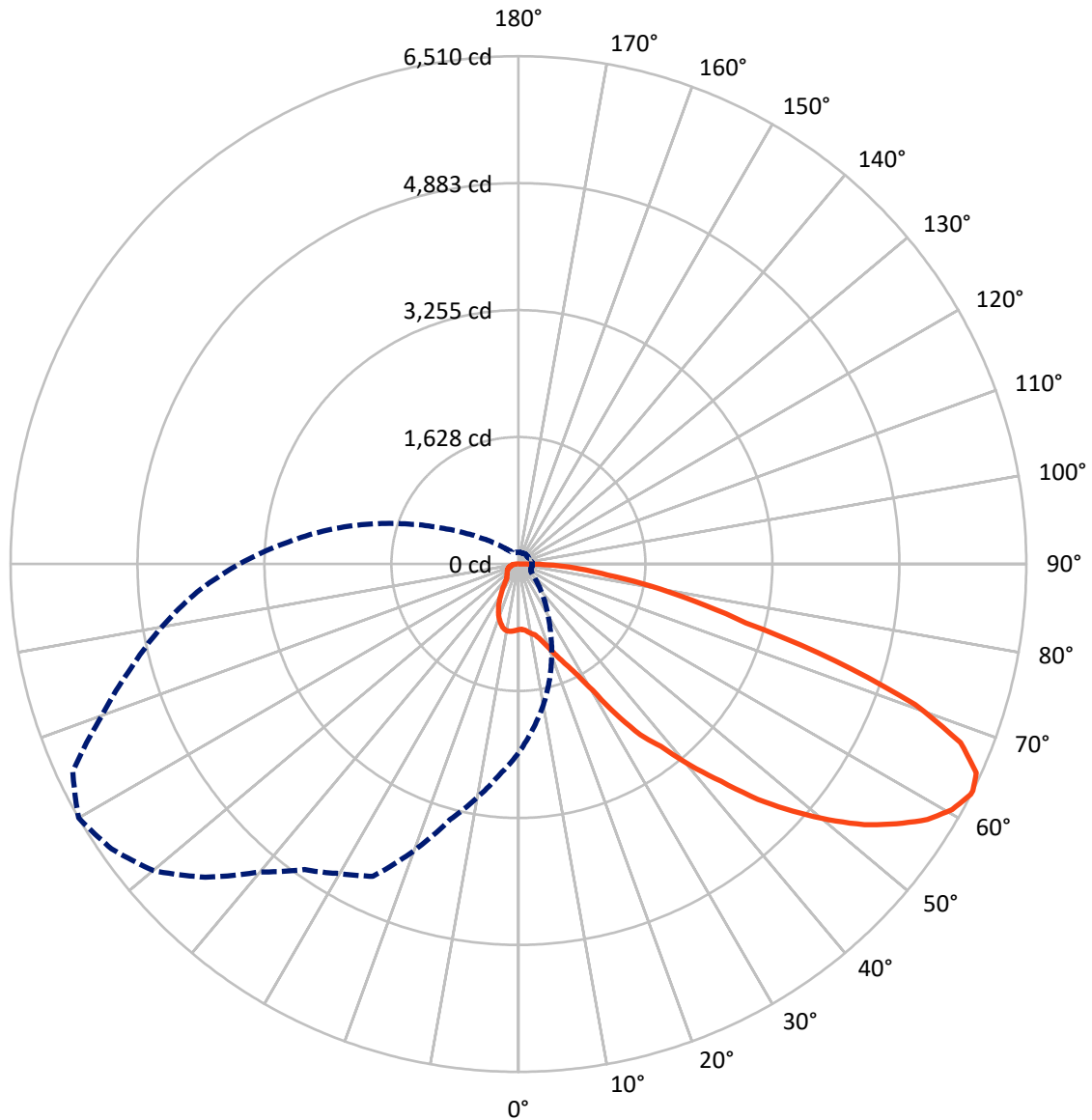
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.8 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
<b>House Side</b>	Lumens	1432.8	0.0	1432.8
	% Fixture	20.9	0.0	20.9
<b>Street Side</b>	Lumens	5411.9	0.0	5411.9
	% Fixture	79.1	0.0	79.1
<b>Total</b>	Lumens	6844.6	0.0	6844.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	82.6	1.2
10°-20°	257.7	3.8
20°-30°	455.7	6.7
30°-40°	719.4	10.5
40°-50°	1057.9	15.5
50°-60°	1393.5	20.4
60°-70°	1553.2	22.7
70°-80°	1020.5	14.9
80°-90°	304.3	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°	6844.6	100.0
0°-180°	6844.6	100.0

**Coefficient of Utilization**



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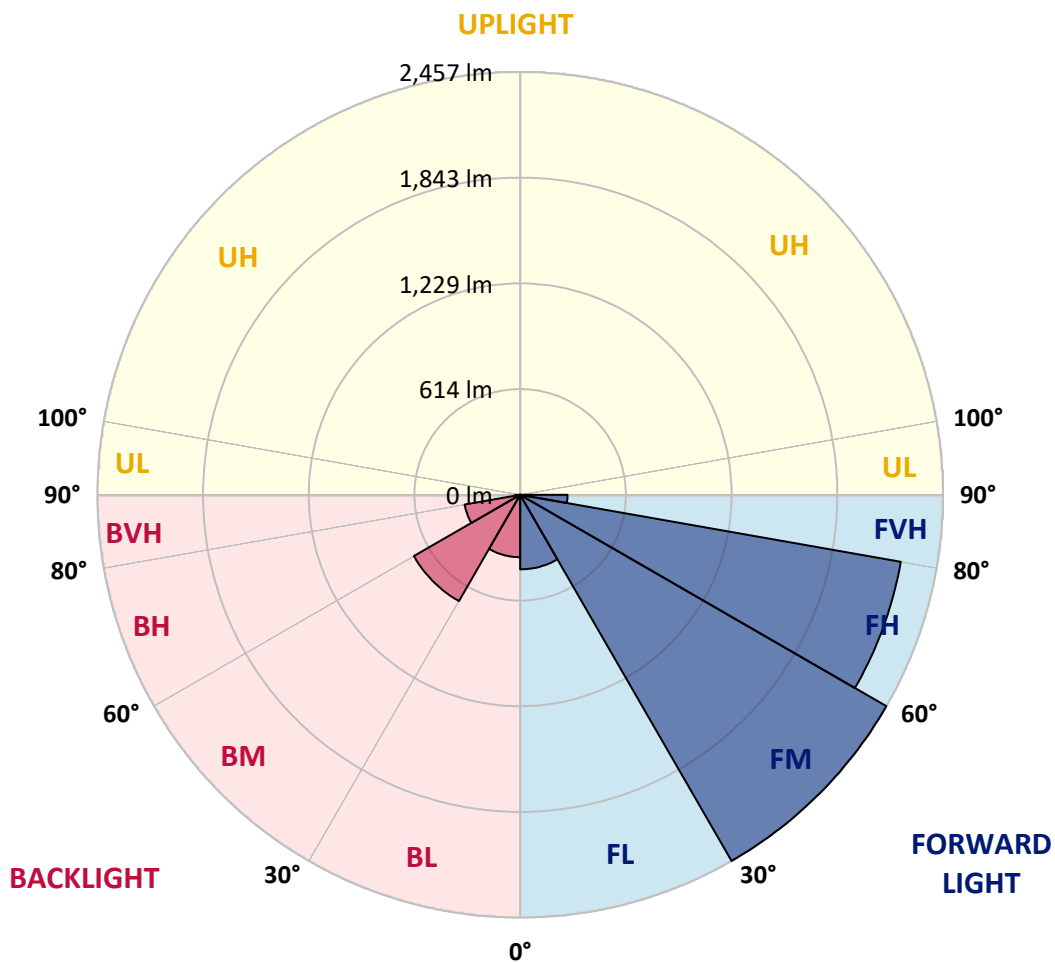
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	433.2	6.3			
FM	(30°-60°)	2457.4	35.9			
FH	(60°-80°)	2246.2	32.8			G2/5000
FVH	(80°-90°)	275.0	4.0			G3/500
BL	(0°-30°)	362.7	5.3	B1/500		
BM	(30°-60°)	713.3	10.4	B1/1000		
BH	(60°-80°)	327.5	4.8	B1/500		G1/500
BVH	(80°-90°)	29.3	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°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	839.6	841.1	841.1	839.6	841.1	840.6	840.6	842.2	842.7	845.2	843.7
5°	835.6	836.1	836.6	835.6	836.1	836.1	837.1	838.6	839.1	842.2	840.6
7.5°	831.0	832.0	830.0	830.5	832.0	834.0	834.0	836.1	839.6	841.1	840.6
10°	833.5	832.5	831.0	830.5	831.5	832.0	833.0	836.6	839.6	841.1	843.7
12.5°	853.3	850.3	848.8	848.3	848.8	847.8	851.3	852.3	853.3	855.4	854.4
15°	891.0	886.9	884.3	881.8	887.4	884.9	884.9	881.8	876.7	869.1	859.4
17.5°	943.3	938.7	936.7	935.7	936.2	931.6	922.5	907.7	889.9	869.6	850.8
20°	1018.5	1025.6	1022.6	1008.9	1003.8	983.5	954.5	924.0	893.0	860.5	829.5
22.5°	1148.6	1144.6	1130.8	1096.8	1066.3	1020.6	968.7	919.4	873.7	826.4	785.7
25°	1299.6	1265.5	1226.9	1159.8	1089.7	1014.5	939.7	881.3	820.3	768.5	719.7
27.5°	1484.6	1410.9	1312.3	1203.0	1098.3	998.2	909.8	832.5	762.9	707.5	653.1
30°	1666.5	1543.5	1406.3	1261.5	1120.2	985.0	868.1	778.6	698.3	627.2	572.3
32.5°	1792.6	1643.7	1472.9	1294.0	1122.2	963.6	822.3	715.6	625.1	553.5	487.4
35°	1896.3	1710.2	1496.3	1288.9	1089.7	913.8	756.8	638.4	542.3	468.1	410.2
37.5°	1967.4	1744.3	1494.7	1259.4	1031.7	834.5	681.6	561.1	471.7	402.5	349.2
40°	2017.2	1755.0	1474.9	1209.1	965.2	757.8	601.3	491.5	413.2	359.3	320.7
42.5°	2041.1	1747.9	1445.4	1161.3	899.1	695.8	540.8	444.7	381.2	340.5	312.1
45°	2051.3	1730.6	1412.4	1114.6	845.2	642.4	509.8	430.5	380.7	345.6	314.6
47.5°	2048.7	1711.8	1382.9	1076.0	813.2	628.2	515.9	449.8	399.5	355.8	316.1
50°	2041.6	1694.5	1364.1	1061.7	812.7	649.5	549.9	482.3	421.3	364.9	314.6
52.5°	2041.1	1693.0	1374.3	1078.5	842.2	697.8	601.3	519.9	442.7	375.1	315.1
55°	2053.3	1720.4	1417.5	1123.7	913.3	765.4	659.2	560.1	466.6	382.2	313.6
57.5°	2102.6	1789.0	1499.3	1224.9	1004.8	847.8	715.1	590.1	475.7	380.2	306.5
60°	2210.9	1909.5	1625.4	1367.7	1122.2	923.0	748.1	600.2	471.7	368.0	291.2
62.5°	2379.6	2083.8	1798.2	1508.0	1226.4	968.2	755.8	592.1	455.4	347.6	272.4
63°	2422.8	2124.0	1833.2	1536.9	1244.2	972.8	755.3	589.1	450.8	342.6	267.8
65°	2603.2	2296.3	1974.0	1632.5	1292.0	981.9	743.6	569.7	430.5	318.7	247.0
67.5°	2874.6	2486.3	2113.8	1721.4	1318.4	965.7	707.0	522.0	378.1	277.0	216.0
70°	3055.6	2612.4	2197.1	1750.4	1287.4	891.5	623.1	437.6	309.0	228.2	184.5
72.5°	3060.1	2499.6	2084.3	1600.0	1111.5	735.4	487.9	330.9	240.4	185.5	159.1
75°	2733.3	2112.3	1703.6	1313.8	855.4	519.9	343.1	241.4	184.5	153.0	137.7
77.5°	2032.0	1541.0	1229.4	883.8	555.5	337.0	238.9	178.9	146.4	126.6	115.4
80°	1261.0	963.1	746.1	528.6	332.9	224.1	174.8	142.3	123.0	105.7	96.6
82.5°	760.3	539.2	421.3	319.2	213.0	161.6	134.7	119.9	104.2	88.9	81.8
85°	557.0	385.8	282.6	197.2	131.6	106.7	94.5	91.5	80.8	68.6	64.5
87.5°	175.3	184.0	191.1	116.4	63.5	48.3	41.2	48.3	46.3	32.5	35.6
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	846.2	848.3	846.7	846.7	845.7	845.2	848.8	847.8	848.8	848.3	849.3
5°	843.2	844.7	843.7	844.7	843.7	843.7	848.3	848.3	850.3	851.3	853.9
7.5°	844.2	844.7	844.2	845.7	844.7	843.7	846.2	847.8	851.3	854.4	856.9
10°	847.8	849.3	848.8	848.8	845.7	843.7	845.2	846.2	849.8	851.3	854.4
12.5°	856.4	854.4	850.3	847.8	840.6	836.6	834.5	833.5	836.1	838.1	839.6
15°	854.4	843.2	834.0	826.4	815.7	809.1	804.0	803.5	804.0	804.6	806.1
17.5°	833.5	818.3	800.0	790.3	778.1	771.0	767.5	764.9	764.4	765.4	768.0
20°	803.5	781.2	760.8	744.1	730.9	719.7	722.2	716.6	719.2	720.7	725.3
22.5°	757.8	726.8	703.4	683.1	667.3	655.6	655.6	650.6	651.6	656.1	662.2
25°	683.6	654.6	621.1	606.8	589.1	580.9	579.4	578.4	582.4	588.0	591.6
27.5°	616.5	576.9	543.8	525.0	506.2	508.2	498.1	504.2	508.8	513.3	517.4
30°	526.0	493.5	463.5	444.7	422.4	422.9	424.4	425.4	429.5	435.6	443.7
32.5°	439.1	404.1	376.1	355.8	342.6	338.5	332.9	342.0	347.1	353.2	361.4
35°	367.5	330.9	307.5	289.7	282.1	276.5	275.0	273.9	278.5	281.6	288.2
37.5°	316.1	291.2	273.9	261.2	254.1	248.0	246.5	245.5	245.0	244.0	248.0
40°	295.3	275.5	260.7	249.0	242.4	238.9	237.4	235.3	233.3	230.7	230.2
42.5°	289.2	267.8	250.6	238.9	233.8	233.3	233.3	232.3	230.2	226.7	224.1
45°	286.7	260.7	240.9	231.8	228.2	228.7	228.7	228.7	227.2	223.6	219.6
47.5°	282.1	252.1	231.8	224.1	222.6	223.6	224.6	224.6	223.6	220.6	216.0
50°	273.4	238.9	217.5	210.4	209.9	210.4	210.4	211.4	210.4	207.9	203.8
52.5°	266.8	228.7	206.9	201.3	201.3	200.8	200.2	200.2	199.7	197.7	194.7
55°	260.7	222.1	202.3	197.7	198.7	198.7	197.7	197.2	195.2	192.6	189.6
57.5°	252.1	215.0	197.7	194.7	195.7	195.2	194.7	194.1	192.1	189.1	185.0
60°	236.8	202.3	188.6	186.5	188.1	188.6	190.6	191.1	190.1	186.5	180.9
62.5°	220.1	186.5	176.4	174.8	176.4	177.9	179.4	178.4	178.4	174.8	169.8
63°	214.5	184.0	172.8	172.8	174.3	175.9	176.9	175.9	176.4	172.3	167.2
65°	201.8	174.8	166.2	166.7	168.2	169.2	169.8	169.8	169.2	166.2	161.6
67.5°	180.4	161.6	156.5	159.1	161.1	161.6	161.6	162.6	161.6	159.6	155.5
70°	161.1	148.9	145.4	148.4	149.4	149.9	149.9	149.9	148.9	146.9	143.3
72.5°	146.4	140.3	139.8	139.3	139.8	138.2	138.2	137.2	134.7	133.2	130.1
75°	130.1	127.1	127.6	127.1	126.0	125.5	123.0	122.0	118.9	116.9	112.8
77.5°	111.8	112.3	111.8	112.3	113.3	113.8	110.3	107.7	105.2	103.2	101.1
80°	93.0	94.0	93.0	94.0	94.5	94.5	91.0	86.9	84.9	86.4	86.9
82.5°	82.8	82.8	78.8	79.8	78.8	77.3	74.7	73.2	71.7	70.6	73.2
85°	65.6	66.1	67.1	66.1	64.0	62.5	60.0	57.9	56.4	57.9	61.5
87.5°	39.1	42.2	40.7	40.7	40.2	40.2	38.1	37.1	35.6	41.7	44.7
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°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	848.8	850.3	850.8	850.3	850.8	851.8	847.8	851.8	852.3	849.3	850.3
5°	855.9	858.4	862.0	862.0	864.5	866.1	864.0	869.6	870.6	870.1	872.7
7.5°	861.0	864.5	869.1	871.6	876.2	878.2	879.8	884.9	885.9	887.9	889.9
10°	860.5	865.5	869.6	876.7	882.3	886.4	889.4	895.0	897.1	900.1	901.6
12.5°	845.7	851.3	858.9	869.1	879.3	885.9	894.0	902.1	905.2	909.3	911.8
15°	812.7	817.3	827.9	841.1	854.9	871.6	883.3	896.0	901.6	905.7	909.3
17.5°	769.5	773.5	783.2	794.9	813.2	829.5	847.2	866.6	876.2	880.8	882.3
20°	729.3	735.4	738.0	751.7	757.8	774.1	789.3	810.7	822.8	831.0	836.1
22.5°	666.3	669.4	682.6	688.2	692.7	702.9	721.7	740.5	756.8	770.0	774.1
25°	596.7	604.8	611.9	616.5	627.2	627.7	642.9	656.1	676.5	689.2	699.3
27.5°	519.9	532.1	536.2	539.2	547.4	557.0	562.6	575.8	587.5	602.3	620.6
30°	442.7	454.4	462.5	467.1	474.7	483.8	487.9	496.6	511.8	528.1	542.3
32.5°	370.5	382.7	386.8	401.5	403.5	412.2	415.2	429.0	437.6	451.3	468.1
35°	299.9	312.6	324.8	332.9	342.0	341.5	349.7	362.4	370.0	384.2	395.4
37.5°	251.6	259.2	267.8	277.0	287.2	294.8	302.4	308.0	314.1	323.8	333.9
40°	230.2	232.3	235.8	241.4	248.5	254.1	259.7	264.3	268.9	276.5	283.1
42.5°	221.6	220.1	220.1	219.1	221.6	224.6	229.2	230.7	237.9	242.4	245.0
45°	215.5	211.9	209.4	206.3	205.3	206.3	208.9	212.4	217.0	218.5	218.5
47.5°	211.9	206.3	202.3	197.7	195.2	195.2	196.7	199.2	201.8	202.3	201.8
50°	199.7	194.1	189.1	185.0	183.0	183.0	183.5	187.0	187.5	186.5	187.0
52.5°	190.6	185.0	179.9	176.4	173.8	174.3	175.9	177.4	178.9	177.9	176.9
55°	185.0	178.4	173.8	169.8	166.7	167.7	169.2	171.3	173.8	172.3	170.8
57.5°	179.9	174.3	168.7	164.7	161.1	162.1	163.7	166.7	169.8	166.7	164.7
60°	175.3	169.8	164.2	160.1	156.0	157.0	159.1	162.1	164.7	160.6	158.1
62.5°	164.2	159.1	155.0	153.0	150.4	152.0	153.5	157.0	156.0	152.0	148.9
63°	162.1	157.0	153.5	151.5	149.4	151.5	152.0	155.5	154.0	149.9	147.4
65°	156.0	152.0	148.4	146.4	144.3	145.4	145.4	146.9	144.8	141.8	139.8
67.5°	150.4	145.9	142.3	138.2	136.2	135.2	134.7	134.2	132.7	131.1	130.6
70°	138.2	135.2	132.1	128.6	125.5	123.5	122.5	121.5	120.5	119.9	119.4
72.5°	125.0	122.5	119.4	117.4	114.9	113.3	110.8	110.3	109.3	108.3	107.7
75°	110.8	107.7	106.7	104.7	103.2	102.2	100.1	99.6	98.6	97.1	96.6
77.5°	98.1	97.1	95.6	95.0	92.5	91.0	90.0	89.5	88.4	87.4	86.4
80°	87.4	86.9	85.9	85.4	83.9	81.8	80.8	81.3	79.8	79.3	77.8
82.5°	78.8	79.3	79.3	77.8	76.2	73.7	72.7	74.2	73.2	71.2	69.1
85°	67.1	66.6	67.1	66.6	63.5	61.0	60.0	61.0	60.5	57.4	56.9
87.5°	47.8	47.3	46.3	49.3	45.2	36.6	37.6	42.7	41.2	39.6	38.6
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°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	852.3	850.8	851.8	852.3	850.8	854.4	850.8	851.3	852.3	849.3	848.8
5°	874.7	874.7	878.8	879.3	878.8	883.3	882.8	883.3	882.3	881.8	879.8
7.5°	893.0	895.0	898.1	902.6	904.2	907.7	908.7	909.3	911.3	913.3	912.3
10°	906.2	911.8	914.3	918.9	923.5	926.0	928.6	932.6	934.2	935.7	933.6
12.5°	915.3	922.0	926.0	931.6	937.2	941.3	945.8	950.9	956.0	957.5	955.0
15°	910.8	918.4	924.5	930.6	939.2	946.9	955.5	964.6	971.3	973.8	970.7
17.5°	882.3	889.9	899.1	908.2	917.4	931.6	943.8	959.1	969.7	977.4	978.4
20°	843.2	847.8	861.0	870.1	884.9	901.6	919.9	937.7	949.9	963.6	971.8
22.5°	785.2	794.4	809.1	824.9	839.6	861.5	880.8	904.2	925.0	943.8	961.6
25°	714.6	727.3	744.6	766.4	785.7	809.1	837.1	863.0	898.1	927.5	965.7
27.5°	638.4	661.7	685.6	708.5	729.8	756.3	785.2	814.2	854.4	901.6	951.4
30°	566.2	585.5	615.5	641.9	666.8	699.3	729.3	761.4	799.5	855.4	911.8
32.5°	491.0	506.7	530.1	562.6	591.6	629.7	656.1	694.3	738.5	797.4	861.5
35°	413.2	435.1	453.9	476.2	498.1	536.2	575.8	618.0	668.9	731.9	802.0
37.5°	344.6	358.3	367.5	390.3	409.6	442.2	488.4	539.2	595.2	659.2	734.4
40°	287.7	296.3	306.5	321.7	338.0	367.5	410.2	467.1	525.5	589.6	664.8
42.5°	248.5	254.1	255.1	266.8	282.1	311.0	345.1	397.4	462.0	529.1	604.3
45°	221.6	221.6	221.1	226.2	238.4	263.3	294.3	341.0	402.5	472.7	550.9
47.5°	202.8	204.3	203.8	205.8	214.0	232.3	260.2	299.9	355.8	424.4	503.2
50°	188.6	190.6	191.1	191.6	194.7	209.9	233.8	265.8	315.6	381.2	460.5
52.5°	177.4	177.9	177.9	177.4	178.4	187.0	206.9	236.3	282.6	341.5	417.8
55°	171.3	171.8	171.8	171.8	171.8	177.4	191.6	215.5	252.6	308.0	377.1
57.5°	164.2	164.2	165.2	165.2	165.2	167.2	177.4	197.2	225.7	269.9	331.4
60°	158.1	159.6	161.6	162.1	161.6	161.6	166.7	179.9	198.7	230.7	282.6
62.5°	148.9	150.9	153.5	154.5	155.0	154.0	156.5	162.1	173.3	190.1	225.2
63°	147.4	149.4	151.5	152.5	153.0	152.0	154.0	158.6	167.7	181.4	213.0
65°	140.8	143.3	143.8	144.3	143.8	143.3	142.8	142.8	145.4	150.4	167.2
67.5°	131.6	133.2	133.2	134.2	131.6	130.6	129.6	128.6	127.1	127.6	133.7
70°	121.0	122.0	121.5	121.0	119.9	118.4	117.4	115.9	112.8	111.8	114.9
72.5°	108.8	109.8	109.8	109.8	107.7	106.7	105.7	104.7	103.7	104.7	105.7
75°	97.6	97.6	98.6	98.1	96.6	95.6	95.0	94.5	94.5	94.5	94.0
77.5°	86.9	86.4	86.4	84.9	83.9	83.4	84.4	84.9	84.4	83.4	82.8
80°	77.8	75.2	72.7	70.6	70.1	71.2	72.2	75.2	73.7	73.7	72.7
82.5°	66.1	60.5	56.9	57.4	55.9	56.4	57.4	61.0	60.0	60.5	62.5
85°	52.9	47.8	42.2	43.2	43.2	42.2	44.7	45.7	46.8	49.3	47.3
87.5°	37.1	32.5	26.9	23.4	24.4	25.4	26.4	25.4	22.4	23.4	22.9
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):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6
2.5°	847.8	848.3	848.3	844.7	843.7	844.7	844.2	844.2	841.1	841.7	840.6
5°	878.8	879.8	876.7	874.2	870.6	870.1	869.6	867.6	865.5	861.5	859.4
7.5°	911.8	907.2	906.2	901.6	900.1	896.0	893.0	889.9	887.4	885.4	883.8
10°	932.6	929.1	928.1	919.9	917.4	912.3	909.3	905.7	902.6	899.6	899.1
12.5°	951.4	945.3	941.8	930.6	925.5	919.9	917.4	914.3	913.3	912.8	914.8
15°	966.2	957.5	950.9	940.8	936.7	933.6	934.2	932.6	938.7	942.3	948.9
17.5°	975.8	972.3	970.7	963.1	965.7	965.7	972.8	976.3	987.5	996.7	1005.8
20°	980.9	987.5	1000.2	1002.8	1008.9	1015.5	1026.1	1032.2	1043.9	1057.2	1069.9
22.5°	985.5	1013.4	1039.4	1058.7	1072.4	1087.6	1095.3	1108.0	1116.1	1125.8	1145.1
25°	1010.9	1057.7	1103.4	1128.3	1160.8	1182.7	1200.0	1212.7	1226.9	1235.0	1256.9
27.5°	1003.8	1063.2	1124.2	1170.0	1220.8	1262.0	1298.6	1323.0	1341.3	1370.7	1389.0
30°	971.3	1040.4	1114.1	1179.1	1250.3	1317.4	1380.9	1437.8	1486.6	1526.3	1553.2
32.5°	925.0	1004.3	1090.7	1171.0	1262.0	1351.4	1442.9	1529.8	1612.7	1678.2	1719.4
35°	873.2	958.6	1054.1	1149.1	1258.4	1375.3	1498.8	1615.7	1735.7	1840.4	1922.7
37.5°	810.1	902.6	1007.3	1117.6	1243.2	1383.4	1539.0	1698.0	1851.0	2009.6	2125.5
40°	744.1	834.5	943.3	1069.3	1214.2	1379.4	1570.0	1776.3	1997.9	2202.2	2378.6
42.5°	687.7	776.1	889.9	1014.5	1170.5	1364.1	1590.8	1846.5	2119.4	2384.2	2618.5
45°	632.3	726.8	841.7	973.3	1143.6	1358.0	1617.7	1907.4	2219.0	2533.1	2831.9
47.5°	588.5	682.1	797.9	939.2	1121.7	1354.5	1643.2	1964.4	2300.3	2643.9	2998.1
50°	546.9	636.3	749.2	898.1	1098.8	1348.9	1658.4	2009.6	2363.8	2730.8	3116.1
52.5°	504.2	597.2	707.0	851.3	1068.8	1337.7	1663.0	2045.2	2429.4	2814.2	3226.3
55°	461.0	554.0	663.8	813.2	1028.2	1315.8	1659.4	2071.1	2498.0	2902.1	3327.0
57.5°	408.1	499.6	614.5	764.9	975.8	1272.1	1642.1	2082.3	2540.7	2984.4	3428.1
60°	348.7	435.1	543.8	697.3	911.8	1209.1	1603.5	2066.5	2560.0	3038.8	3535.4
62.5°	273.9	349.2	449.3	601.8	818.8	1118.1	1519.1	1996.9	2513.3	3025.1	3581.6
63°	257.2	329.9	433.0	576.4	791.3	1086.6	1494.2	1973.0	2492.4	3012.4	3576.0
65°	196.2	250.1	335.4	463.5	668.9	941.3	1363.1	1837.8	2361.3	2885.8	3488.1
67.5°	144.8	172.8	225.2	311.0	470.6	732.4	1117.1	1587.3	2082.8	2575.8	3188.7
70°	119.9	130.6	155.0	199.2	291.2	485.9	789.3	1208.1	1674.2	2098.5	2652.0
72.5°	107.2	114.9	126.0	145.9	184.0	285.1	513.3	784.2	1165.9	1532.9	2000.5
75°	96.1	101.1	110.3	122.0	139.3	178.4	271.4	465.0	712.6	1032.8	1372.3
77.5°	84.4	89.5	98.6	107.7	118.9	135.7	168.2	264.8	426.4	602.8	842.2
80°	73.2	75.7	83.4	96.6	104.7	118.4	129.1	165.7	232.3	315.6	448.8
82.5°	60.5	61.0	66.1	76.2	86.4	91.5	94.5	104.2	133.7	166.7	220.1
85°	43.2	41.2	44.2	48.3	56.4	51.8	55.4	58.4	71.2	85.9	157.6
87.5°	19.3	15.2	17.8	19.8	17.8	12.2	17.8	14.7	18.3	36.1	40.7
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°	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	840.6	0°
2.5°	841.7	838.6	838.6	838.1	838.6	837.6	835.6	835.6	837.1	836.6	836.6	2.5°
5°	859.4	855.4	854.4	853.9	853.9	851.3	848.3	846.7	846.2	844.2	842.7	5°
7.5°	882.8	880.3	881.8	878.8	877.7	877.2	873.2	870.1	865.5	863.5	855.9	7.5°
10°	902.1	900.6	904.7	904.2	904.7	904.7	899.1	896.0	889.4	885.9	876.2	10°
12.5°	918.9	919.9	927.5	927.5	929.1	931.1	928.1	921.4	918.9	915.3	905.2	12.5°
15°	961.6	965.7	971.3	980.4	982.9	983.5	986.0	980.4	973.8	964.6	952.5	15°
17.5°	1019.5	1027.7	1046.5	1059.7	1062.2	1064.8	1063.2	1062.2	1050.0	1042.4	1029.7	17.5°
20°	1092.2	1112.0	1138.5	1156.8	1164.9	1165.9	1176.1	1169.0	1157.8	1142.5	1124.2	20°
22.5°	1173.5	1206.6	1240.1	1267.1	1282.8	1289.9	1300.6	1290.4	1275.7	1266.5	1242.2	22.5°
25°	1284.8	1320.9	1359.6	1380.9	1421.1	1432.7	1438.8	1435.8	1420.5	1427.2	1404.8	25°
27.5°	1437.3	1468.3	1522.7	1549.6	1587.3	1609.1	1604.5	1629.9	1634.5	1650.3	1652.8	27.5°
30°	1603.5	1654.8	1728.0	1782.4	1839.8	1877.0	1906.4	1928.8	1954.7	1998.4	2024.8	30°
32.5°	1782.9	1857.1	1950.6	2066.0	2188.0	2287.6	2399.9	2419.2	2477.2	2460.4	2449.2	32.5°
35°	1982.7	2076.2	2196.1	2347.6	2525.0	2689.6	2797.9	2852.3	2875.1	2887.9	2810.6	35°
37.5°	2250.0	2376.6	2510.2	2675.4	2811.1	2965.1	3089.6	3224.8	3286.8	3257.3	3109.4	37.5°
40°	2546.3	2664.7	2845.7	2980.9	3141.0	3394.6	3563.3	3725.9	3776.8	3678.7	3446.9	40°
42.5°	2843.6	3006.3	3202.5	3394.6	3578.6	3808.3	4031.9	4192.5	4248.4	4080.7	3805.7	42.5°
45°	3108.4	3316.8	3547.6	3744.8	4001.9	4302.3	4576.2	4705.3	4695.2	4425.8	4116.3	45°
47.5°	3339.2	3609.6	3869.8	4135.6	4394.8	4733.8	5005.2	5153.6	5048.4	4765.3	4414.6	47.5°
50°	3529.8	3856.6	4170.7	4476.1	4794.3	5154.6	5416.4	5553.6	5393.5	5035.2	4643.3	50°
52.5°	3674.6	4079.7	4441.6	4783.1	5163.3	5552.6	5785.4	5868.2	5618.7	5244.1	4814.6	52.5°
55°	3811.3	4269.3	4669.8	5057.5	5530.7	5879.9	6097.9	6082.7	5760.5	5335.1	4921.8	55°
57.5°	3914.5	4430.9	4857.3	5299.0	5808.7	6181.8	6307.8	6207.2	5819.4	5362.0	4952.9	57.5°
60°	4044.6	4556.9	5024.0	5517.0	6073.0	6388.6	6405.4	6225.0	5802.6	5311.2	4909.1	60°
62.5°	4128.0	4635.7	5130.2	5666.4	6274.3	6505.0	6385.1	6148.2	5706.1	5185.6	4809.0	62.5°
63°	4136.1	4643.3	5138.9	5681.2	6302.8	6510.1	6366.3	6113.7	5677.6	5151.1	4782.6	63°
65°	4099.5	4621.5	5099.2	5654.7	6309.9	6450.1	6228.5	5971.9	5520.6	4974.7	4627.1	65°
67.5°	3843.9	4386.7	4842.6	5363.5	6035.4	6113.2	5891.1	5612.0	5188.2	4594.5	4287.0	67.5°
70°	3385.9	3901.8	4225.0	4708.9	5300.0	5393.0	5194.3	4978.3	4601.7	4105.6	3850.5	70°
72.5°	2727.8	3234.5	3428.6	3799.1	4268.8	4248.4	4108.7	4081.7	3883.5	3467.2	3313.8	72.5°
75°	2039.1	2521.4	2603.2	2754.2	3016.4	3009.8	3042.4	3158.2	3257.3	3011.4	2814.7	75°
77.5°	1344.8	1824.6	1875.4	2051.3	2124.0	2323.2	2557.0	2848.2	2992.5	2891.9	2650.5	77.5°
80°	744.1	1248.3	1238.1	1306.7	1435.3	1725.0	2079.2	2511.7	2800.4	2728.3	2464.0	80°
82.5°	386.8	788.8	777.1	789.3	908.7	1152.2	1421.6	1775.3	2073.6	2080.2	1991.3	82.5°
85°	287.7	566.2	599.7	627.2	706.5	791.3	840.6	954.0	1117.6	1270.1	1324.5	85°
87.5°	105.7	340.0	423.4	454.9	456.9	446.2	363.4	400.0	363.9	430.5	601.3	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°
840.6	840.6	840.6	840.6	840.6	840.6	840.6
837.6	837.6	837.1	838.1	838.6	840.1	839.6
841.1	839.6	838.1	837.1	836.1	836.6	835.6
850.3	845.2	841.1	837.6	834.5	834.0	831.0
870.6	861.5	853.9	848.3	842.2	839.1	833.5
896.5	886.4	876.7	868.6	861.5	857.4	853.3
941.8	927.0	915.3	906.7	899.6	895.0	891.0
1008.9	990.6	972.8	956.0	954.0	943.3	943.3
1101.4	1076.5	1053.6	1039.4	1032.8	1018.5	1018.5
1229.4	1205.0	1171.0	1153.7	1155.2	1143.0	1148.6
1395.1	1374.8	1339.7	1332.6	1332.6	1319.4	1299.6
1643.7	1636.6	1597.9	1607.6	1587.3	1538.0	1484.6
2012.7	2012.7	1937.9	1884.1	1837.3	1760.6	1666.5
2382.1	2333.9	2219.5	2128.0	2030.9	1913.5	1792.6
2694.2	2565.6	2449.7	2337.9	2192.1	2066.0	1896.3
2957.5	2835.5	2702.8	2532.6	2361.3	2185.5	1967.4
3283.8	3135.4	2936.1	2722.2	2511.7	2269.8	2017.2
3582.1	3396.1	3144.5	2873.6	2605.8	2335.9	2041.1
3862.7	3622.8	3312.2	2987.0	2682.0	2376.6	2051.3
4127.0	3805.2	3443.9	3067.8	2734.4	2398.4	2048.7
4301.3	3938.9	3526.7	3116.6	2765.9	2406.0	2041.6
4410.6	4020.7	3575.5	3143.5	2781.6	2407.6	2041.1
4472.1	4067.0	3601.9	3162.3	2798.9	2416.7	2053.3
4519.8	4103.6	3631.4	3194.3	2840.1	2459.4	2102.6
4565.1	4199.6	3708.2	3253.3	2911.7	2539.2	2210.9
4583.9	4382.1	3864.2	3362.0	3011.9	2667.3	2379.6
4582.3	4416.7	3909.4	3392.0	3038.3	2701.3	2422.8
4526.9	4526.4	4115.3	3535.4	3161.3	2858.9	2603.2
4362.8	4581.3	4343.0	3724.4	3352.4	3118.6	2874.6
4103.1	4514.7	4374.0	3774.2	3488.1	3357.0	3055.6
3655.8	4196.6	4083.8	3561.8	3441.8	3403.7	3060.1
2957.0	3373.7	3325.4	3042.9	3087.1	3165.4	2733.3
2382.1	2368.9	2361.8	2259.2	2447.2	2606.3	2032.0
1989.8	1639.1	1522.2	1482.6	1792.6	1914.6	1261.0
1860.2	1472.4	1181.2	1131.4	1343.3	1408.3	760.3
1421.6	1429.7	1237.6	1060.7	1045.0	956.5	557.0
695.8	707.5	747.6	682.6	585.5	493.5	175.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)