

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: P146041

Luminaire Tested: **LDRL-SLR-E03-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146041
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-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8291.2 lumens
Efficiency: N/A
Efficacy: 110.3 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

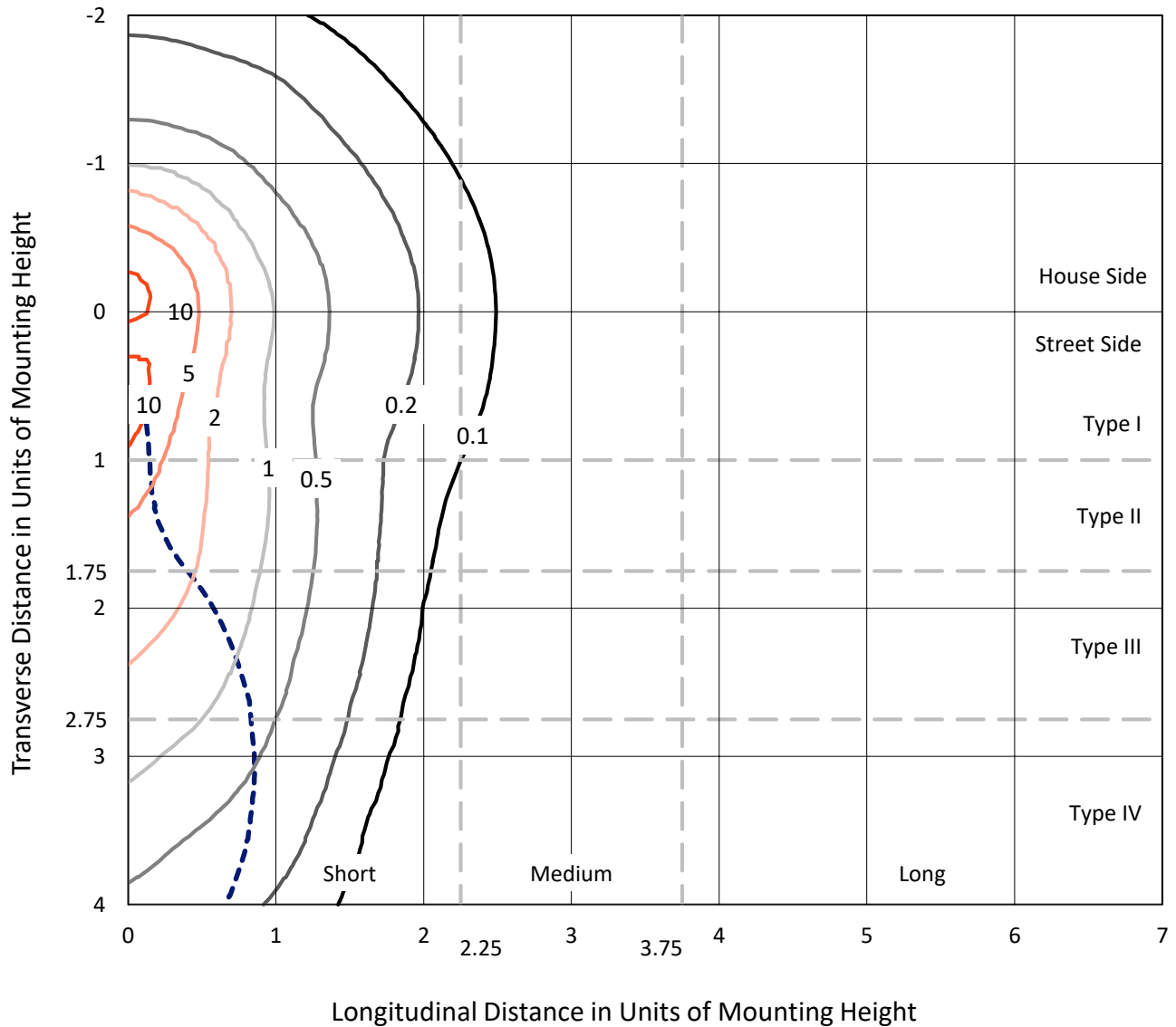


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Iso-Footcandle Lines of Horizontal Illumination

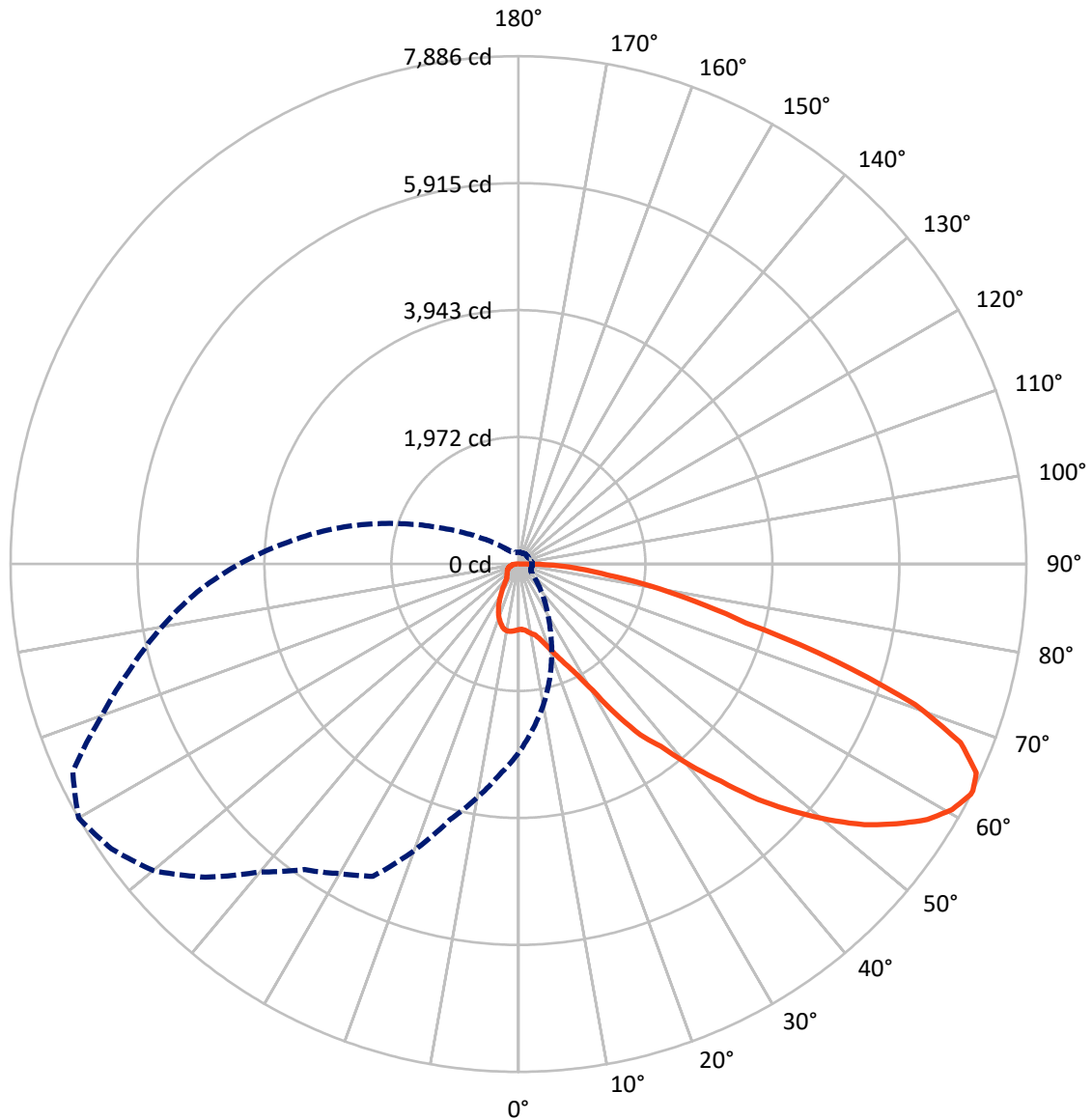
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13.1 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	1735.6	0.0	1735.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	6555.7	0.0	6555.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	8291.2	0.0	8291.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	1.2
10°-20°	312.1	3.8
20°-30°	552.0	6.7
30°-40°	871.4	10.5
40°-50°	1281.4	15.5
50°-60°	1688.0	20.4
60°-70°	1881.4	22.7
70°-80°	1236.2	14.9
80°-90°	368.6	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°	8291.2	100.0
0°-180°	8291.2	100.0



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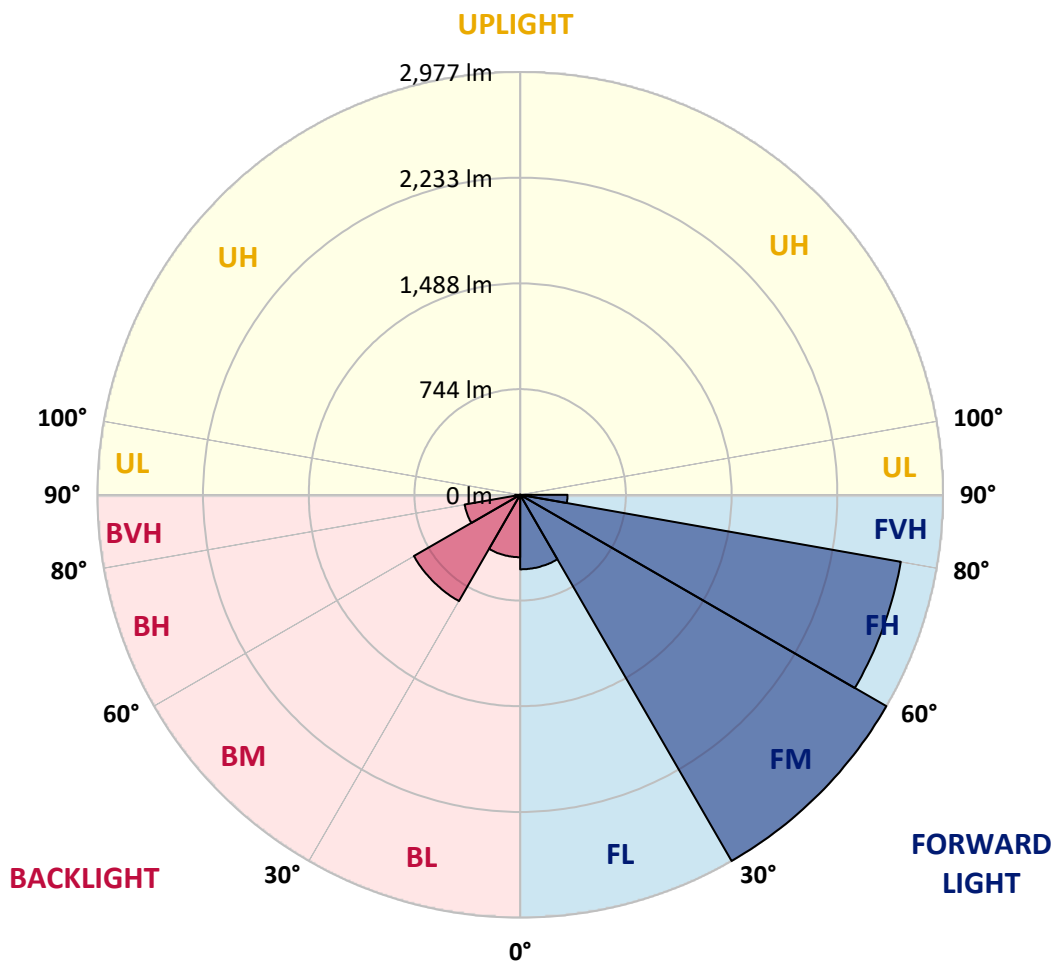
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	524.8	6.3			
FM	(30°-60°)	2976.8	35.9			
FH	(60°-80°)	2720.9	32.8			G2/5000
FVH	(80°-90°)	333.2	4.0			G3/500
BL	(0°-30°)	439.4	5.3	B1/500		
BM	(30°-60°)	864.1	10.4	B1/1000		
BH	(60°-80°)	396.7	4.8	B1/500		G1/500
BVH	(80°-90°)	35.5	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°	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3
2.5°	1017.1	1018.9	1018.9	1017.1	1018.9	1018.3	1018.3	1020.2	1020.8	1023.8	1022.0
5°	1012.2	1012.8	1013.4	1012.2	1012.8	1012.8	1014.0	1015.8	1016.5	1020.2	1018.3
7.5°	1006.6	1007.8	1005.4	1006.0	1007.8	1010.3	1010.3	1012.8	1017.1	1018.9	1018.3
10°	1009.7	1008.5	1006.6	1006.0	1007.2	1007.8	1009.1	1013.4	1017.1	1018.9	1022.0
12.5°	1033.7	1030.0	1028.2	1027.5	1028.2	1026.9	1031.2	1032.5	1033.7	1036.2	1034.9
15°	1079.3	1074.3	1071.3	1068.2	1074.9	1071.9	1071.9	1068.2	1062.0	1052.8	1041.1
17.5°	1142.7	1137.1	1134.7	1133.4	1134.1	1128.5	1117.4	1099.6	1078.0	1053.4	1030.6
20°	1233.8	1242.4	1238.7	1222.1	1215.9	1191.3	1156.2	1119.3	1081.7	1042.3	1004.8
22.5°	1391.4	1386.5	1369.9	1328.6	1291.7	1236.3	1173.5	1113.7	1058.3	1001.1	951.8
25°	1574.3	1533.0	1486.2	1404.9	1320.0	1228.9	1138.4	1067.6	993.7	930.9	871.8
27.5°	1798.4	1709.1	1589.6	1457.3	1330.4	1209.2	1102.0	1008.5	924.1	857.0	791.1
30°	2018.8	1869.8	1703.5	1528.1	1356.9	1193.2	1051.6	943.2	845.9	759.7	693.2
32.5°	2171.4	1991.1	1784.2	1567.5	1359.4	1167.3	996.1	866.9	757.3	670.5	590.4
35°	2297.0	2071.7	1812.5	1561.3	1320.0	1107.0	916.7	773.3	656.9	567.0	496.8
37.5°	2383.2	2113.0	1810.7	1525.6	1249.8	1010.9	825.6	679.7	571.3	487.6	423.0
40°	2443.6	2125.9	1786.7	1464.7	1169.1	918.0	728.3	595.3	500.5	435.3	388.5
42.5°	2472.5	2117.3	1750.9	1406.8	1089.1	842.8	655.1	538.7	461.7	412.5	378.0
45°	2484.8	2096.3	1710.9	1350.1	1023.8	778.2	617.5	521.5	461.1	418.7	381.1
47.5°	2481.7	2073.6	1675.2	1303.4	985.1	761.0	624.9	544.9	483.9	431.0	382.9
50°	2473.1	2052.6	1652.4	1286.1	984.4	786.8	666.1	584.3	510.4	442.0	381.1
52.5°	2472.5	2050.8	1664.8	1306.4	1020.2	845.3	728.3	629.8	536.2	454.4	381.7
55°	2487.3	2084.0	1717.1	1361.2	1106.3	927.2	798.5	678.5	565.2	463.0	379.9
57.5°	2547.0	2167.1	1816.2	1483.7	1217.2	1026.9	866.2	714.8	576.3	460.5	371.2
60°	2678.1	2313.0	1968.9	1656.7	1359.4	1118.0	906.3	727.1	571.3	445.7	352.8
62.5°	2882.5	2524.2	2178.2	1826.7	1485.6	1172.8	915.5	717.2	551.6	421.1	330.0
63°	2934.9	2572.9	2220.7	1861.8	1507.1	1178.4	914.9	713.6	546.1	415.0	324.5
65°	3153.4	2781.6	2391.2	1977.5	1565.0	1189.5	900.7	690.2	521.5	386.0	299.2
67.5°	3482.2	3011.8	2560.5	2085.3	1597.0	1169.8	856.4	632.3	458.1	335.5	261.7
70°	3701.4	3164.5	2661.5	2120.3	1559.5	1079.9	754.8	530.1	374.3	276.4	223.5
72.5°	3706.9	3027.8	2524.8	1938.1	1346.5	890.9	591.0	400.8	291.2	224.7	192.7
75°	3311.0	2558.7	2063.7	1591.5	1036.2	629.8	415.6	292.4	223.5	185.3	166.8
77.5°	2461.4	1866.7	1489.3	1070.6	672.9	408.2	289.4	216.7	177.3	153.3	139.8
80°	1527.5	1166.7	903.8	640.3	403.3	271.5	211.8	172.4	149.0	128.1	117.0
82.5°	921.0	653.2	510.4	386.6	258.0	195.8	163.2	145.3	126.2	107.7	99.1
85°	674.8	467.3	342.3	238.9	159.5	129.3	114.5	110.8	97.9	83.1	78.2
87.5°	212.4	222.9	231.5	141.0	77.0	58.5	49.9	58.5	56.0	39.4	43.1
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°	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3
2.5°	1025.1	1027.5	1025.7	1025.7	1024.5	1023.8	1028.2	1026.9	1028.2	1027.5	1028.8
5°	1021.4	1023.2	1022.0	1023.2	1022.0	1022.0	1027.5	1027.5	1030.0	1031.2	1034.3
7.5°	1022.6	1023.2	1022.6	1024.5	1023.2	1022.0	1025.1	1026.9	1031.2	1034.9	1038.0
10°	1026.9	1028.8	1028.2	1028.2	1024.5	1022.0	1023.8	1025.1	1029.4	1031.2	1034.9
12.5°	1037.4	1034.9	1030.0	1026.9	1018.3	1013.4	1010.9	1009.7	1012.8	1015.2	1017.1
15°	1034.9	1021.4	1010.3	1001.1	988.1	980.1	974.0	973.4	974.0	974.6	976.4
17.5°	1009.7	991.2	969.1	957.4	942.6	934.0	929.7	926.6	926.0	927.2	930.3
20°	973.4	946.3	921.6	901.3	885.3	871.8	874.9	868.1	871.2	873.0	878.6
22.5°	918.0	880.4	852.1	827.5	808.4	794.2	794.2	788.0	789.3	794.8	802.2
25°	828.1	793.0	752.3	735.1	713.6	703.7	701.9	700.6	705.6	712.3	716.6
27.5°	746.8	698.8	658.8	636.0	613.2	615.7	603.4	610.7	616.3	621.8	626.7
30°	637.2	597.8	561.5	538.7	511.6	512.2	514.1	515.3	520.2	527.6	537.5
32.5°	531.9	489.5	455.6	431.0	415.0	410.0	403.3	414.3	420.5	427.9	437.7
35°	445.1	400.8	372.5	350.9	341.7	334.9	333.1	331.8	337.4	341.1	349.1
37.5°	382.9	352.8	331.8	316.5	307.8	300.4	298.6	297.4	296.7	295.5	300.4
40°	357.7	333.7	315.8	301.7	293.7	289.4	287.5	285.1	282.6	279.5	278.9
42.5°	350.3	324.5	303.5	289.4	283.2	282.6	282.6	281.4	278.9	274.6	271.5
45°	347.2	315.8	291.8	280.7	276.4	277.0	277.0	277.0	275.2	270.9	266.0
47.5°	341.7	305.4	280.7	271.5	269.7	270.9	272.1	272.1	270.9	267.2	261.7
50°	331.2	289.4	263.5	254.9	254.3	254.9	254.9	256.1	254.9	251.8	246.9
52.5°	323.2	277.0	250.6	243.8	243.8	243.2	242.6	242.6	242.0	239.5	235.8
55°	315.8	269.0	245.0	239.5	240.7	240.7	239.5	238.9	236.4	233.3	229.6
57.5°	305.4	260.4	239.5	235.8	237.0	236.4	235.8	235.2	232.7	229.0	224.1
60°	286.9	245.0	228.4	225.9	227.8	228.4	230.9	231.5	230.3	225.9	219.2
62.5°	266.6	225.9	213.6	211.8	213.6	215.5	217.3	216.1	216.1	211.8	205.6
63°	259.8	222.9	209.3	209.3	211.2	213.0	214.3	213.0	213.6	208.7	202.6
65°	244.4	211.8	201.3	201.9	203.8	205.0	205.6	205.6	205.0	201.3	195.8
67.5°	218.6	195.8	189.6	192.7	195.2	195.8	195.8	197.0	195.8	193.3	188.4
70°	195.2	180.4	176.1	179.8	181.0	181.6	181.6	181.6	180.4	177.9	173.6
72.5°	177.3	169.9	169.3	168.7	169.3	167.5	167.5	166.2	163.2	161.3	157.6
75°	157.6	153.9	154.5	153.9	152.7	152.1	149.0	147.8	144.1	141.6	136.7
77.5°	135.4	136.1	135.4	136.1	137.3	137.9	133.6	130.5	127.4	125.0	122.5
80°	112.7	113.9	112.7	113.9	114.5	114.5	110.2	105.3	102.8	104.7	105.3
82.5°	100.4	100.4	95.4	96.7	95.4	93.6	90.5	88.7	86.8	85.6	88.7
85°	79.4	80.0	81.3	80.0	77.6	75.7	72.6	70.2	68.3	70.2	74.5
87.5°	47.4	51.1	49.3	49.3	48.6	48.6	46.2	44.9	43.1	50.5	54.2
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°	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3
2.5°	1028.2	1030.0	1030.6	1030.0	1030.6	1031.9	1026.9	1031.9	1032.5	1028.8	1030.0
5°	1036.8	1039.9	1044.2	1044.2	1047.2	1049.1	1046.6	1053.4	1054.6	1054.0	1057.1
7.5°	1042.9	1047.2	1052.8	1055.9	1061.4	1063.9	1065.7	1071.9	1073.1	1075.6	1078.0
10°	1042.3	1048.5	1053.4	1062.0	1068.8	1073.7	1077.4	1084.2	1086.6	1090.3	1092.2
12.5°	1024.5	1031.2	1040.5	1052.8	1065.1	1073.1	1083.0	1092.8	1096.5	1101.4	1104.5
15°	984.4	990.0	1002.9	1018.9	1035.5	1055.9	1070.0	1085.4	1092.2	1097.1	1101.4
17.5°	932.1	937.0	948.7	962.9	985.1	1004.8	1026.3	1049.7	1061.4	1066.9	1068.8
20°	883.5	890.9	893.9	910.6	918.0	937.7	956.1	982.0	996.8	1006.6	1012.8
22.5°	807.1	810.8	826.8	833.6	839.1	851.5	874.2	897.0	916.7	932.7	937.7
25°	722.8	732.6	741.3	746.8	759.7	760.3	778.8	794.8	819.4	834.8	847.2
27.5°	629.8	644.6	649.5	653.2	663.1	674.8	681.5	697.5	711.7	729.6	751.7
30°	536.2	550.4	560.3	565.8	575.0	586.1	591.0	601.5	620.0	639.7	656.9
32.5°	448.8	463.6	468.5	486.4	488.8	499.3	503.0	519.6	530.1	546.7	567.0
35°	363.2	378.6	393.4	403.3	414.3	413.7	423.6	439.0	448.2	465.4	479.0
37.5°	304.8	314.0	324.5	335.5	347.8	357.1	366.3	373.1	380.5	392.2	404.5
40°	278.9	281.4	285.7	292.4	301.1	307.8	314.6	320.1	325.7	334.9	342.9
42.5°	268.4	266.6	266.6	265.4	268.4	272.1	277.7	279.5	288.1	293.7	296.7
45°	261.0	256.7	253.7	250.0	248.7	250.0	253.0	257.3	262.9	264.7	264.7
47.5°	256.7	250.0	245.0	239.5	236.4	236.4	238.3	241.3	244.4	245.0	244.4
50°	242.0	235.2	229.0	224.1	221.6	221.6	222.3	226.6	227.2	225.9	226.6
52.5°	230.9	224.1	217.9	213.6	210.6	211.2	213.0	214.9	216.7	215.5	214.3
55°	224.1	216.1	210.6	205.6	201.9	203.2	205.0	207.5	210.6	208.7	206.9
57.5°	217.9	211.2	204.4	199.5	195.2	196.4	198.2	201.9	205.6	201.9	199.5
60°	212.4	205.6	198.9	193.9	189.0	190.2	192.7	196.4	199.5	194.5	191.5
62.5°	198.9	192.7	187.8	185.3	182.2	184.1	185.9	190.2	189.0	184.1	180.4
63°	196.4	190.2	185.9	183.5	181.0	183.5	184.1	188.4	186.5	181.6	178.5
65°	189.0	184.1	179.8	177.3	174.8	176.1	176.1	177.9	175.5	171.8	169.3
67.5°	182.2	176.7	172.4	167.5	165.0	163.8	163.2	162.5	160.7	158.8	158.2
70°	167.5	163.8	160.1	155.8	152.1	149.6	148.4	147.1	145.9	145.3	144.7
72.5°	151.5	148.4	144.7	142.2	139.1	137.3	134.2	133.6	132.4	131.1	130.5
75°	134.2	130.5	129.3	126.8	125.0	123.7	121.3	120.7	119.4	117.6	117.0
77.5°	118.8	117.6	115.7	115.1	112.1	110.2	109.0	108.4	107.1	105.9	104.7
80°	105.9	105.3	104.0	103.4	101.6	99.1	97.9	98.5	96.7	96.0	94.2
82.5°	95.4	96.0	96.0	94.2	92.3	89.3	88.0	89.9	88.7	86.2	83.7
85°	81.3	80.7	81.3	80.7	77.0	73.9	72.6	73.9	73.3	69.6	69.0
87.5°	57.9	57.3	56.0	59.7	54.8	44.3	45.6	51.7	49.9	48.0	46.8
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3
2.5°	1032.5	1030.6	1031.9	1032.5	1030.6	1034.9	1030.6	1031.2	1032.5	1028.8	1028.2
5°	1059.6	1059.6	1064.5	1065.1	1064.5	1070.0	1069.4	1070.0	1068.8	1068.2	1065.7
7.5°	1081.7	1084.2	1087.9	1093.4	1095.3	1099.6	1100.8	1101.4	1103.9	1106.3	1105.1
10°	1097.7	1104.5	1107.6	1113.1	1118.7	1121.7	1124.8	1129.7	1131.6	1133.4	1131.0
12.5°	1108.8	1116.8	1121.7	1128.5	1135.3	1140.2	1145.7	1151.9	1158.1	1159.9	1156.8
15°	1103.3	1112.5	1119.9	1127.3	1137.7	1147.0	1157.4	1168.5	1176.5	1179.6	1175.9
17.5°	1068.8	1078.0	1089.1	1100.2	1111.3	1128.5	1143.3	1161.8	1174.7	1183.9	1185.2
20°	1021.4	1026.9	1042.9	1054.0	1071.9	1092.2	1114.4	1135.9	1150.7	1167.3	1177.1
22.5°	951.2	962.3	980.1	999.2	1017.1	1043.5	1066.9	1095.3	1120.5	1143.3	1164.8
25°	865.6	881.0	901.9	928.4	951.8	980.1	1014.0	1045.4	1087.9	1123.6	1169.8
27.5°	773.3	801.6	830.5	858.2	884.1	916.1	951.2	986.3	1034.9	1092.2	1152.5
30°	685.8	709.2	745.6	777.6	807.8	847.2	883.5	922.3	968.4	1036.2	1104.5
32.5°	594.7	613.8	642.1	681.5	716.6	762.8	794.8	841.0	894.6	966.0	1043.5
35°	500.5	527.0	549.8	576.9	603.4	649.5	697.5	748.6	810.2	886.6	971.5
37.5°	417.4	434.0	445.1	472.8	496.2	535.6	591.7	653.2	720.9	798.5	889.6
40°	348.5	358.9	371.2	389.7	409.4	445.1	496.8	565.8	636.6	714.2	805.3
42.5°	301.1	307.8	309.1	323.2	341.7	376.8	418.0	481.4	559.6	640.9	732.0
45°	268.4	268.4	267.8	274.0	288.7	318.9	356.5	413.1	487.6	572.6	667.4
47.5°	245.6	247.5	246.9	249.3	259.2	281.4	315.2	363.2	431.0	514.1	609.5
50°	228.4	230.9	231.5	232.1	235.8	254.3	283.2	322.0	382.3	461.7	557.8
52.5°	214.9	215.5	215.5	214.9	216.1	226.6	250.6	286.3	342.3	413.7	506.1
55°	207.5	208.1	208.1	208.1	208.1	214.9	232.1	261.0	306.0	373.1	456.8
57.5°	198.9	198.9	200.1	200.1	200.1	202.6	214.9	238.9	273.4	326.9	401.4
60°	191.5	193.3	195.8	196.4	195.8	195.8	201.9	217.9	240.7	279.5	342.3
62.5°	180.4	182.9	185.9	187.2	187.8	186.5	189.6	196.4	209.9	230.3	272.7
63°	178.5	181.0	183.5	184.7	185.3	184.1	186.5	192.1	203.2	219.8	258.0
65°	170.5	173.6	174.2	174.8	174.2	173.6	173.0	173.0	176.1	182.2	202.6
67.5°	159.5	161.3	161.3	162.5	159.5	158.2	157.0	155.8	153.9	154.5	161.9
70°	146.5	147.8	147.1	146.5	145.3	143.4	142.2	140.4	136.7	135.4	139.1
72.5°	131.8	133.0	133.0	133.0	130.5	129.3	128.1	126.8	125.6	126.8	128.1
75°	118.2	118.2	119.4	118.8	117.0	115.7	115.1	114.5	114.5	114.5	113.9
77.5°	105.3	104.7	104.7	102.8	101.6	101.0	102.2	102.8	102.2	101.0	100.4
80°	94.2	91.1	88.0	85.6	85.0	86.2	87.4	91.1	89.3	89.3	88.0
82.5°	80.0	73.3	69.0	69.6	67.7	68.3	69.6	73.9	72.6	73.3	75.7
85°	64.0	57.9	51.1	52.3	52.3	51.1	54.2	55.4	56.6	59.7	57.3
87.5°	44.9	39.4	32.6	28.3	29.6	30.8	32.0	30.8	27.1	28.3	27.7
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°	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3
2.5°	1026.9	1027.5	1027.5	1023.2	1022.0	1023.2	1022.6	1022.6	1018.9	1019.5	1018.3
5°	1064.5	1065.7	1062.0	1058.9	1054.6	1054.0	1053.4	1050.9	1048.5	1043.5	1041.1
7.5°	1104.5	1099.0	1097.7	1092.2	1090.3	1085.4	1081.7	1078.0	1074.9	1072.5	1070.6
10°	1129.7	1125.4	1124.2	1114.4	1111.3	1105.1	1101.4	1097.1	1093.4	1089.7	1089.1
12.5°	1152.5	1145.1	1140.8	1127.3	1121.1	1114.4	1111.3	1107.6	1106.3	1105.7	1108.2
15°	1170.4	1159.9	1151.9	1139.6	1134.7	1131.0	1131.6	1129.7	1137.1	1141.4	1149.4
17.5°	1182.1	1177.8	1175.9	1166.7	1169.8	1169.8	1178.4	1182.7	1196.2	1207.3	1218.4
20°	1188.2	1196.2	1211.6	1214.7	1222.1	1230.1	1243.0	1250.4	1264.6	1280.6	1296.0
22.5°	1193.8	1227.6	1259.0	1282.4	1299.0	1317.5	1326.8	1342.1	1352.0	1363.7	1387.1
25°	1224.6	1281.2	1336.6	1366.8	1406.2	1432.6	1453.6	1469.0	1486.2	1496.1	1522.5
27.5°	1215.9	1288.0	1361.8	1417.3	1478.8	1528.7	1573.0	1602.6	1624.7	1660.4	1682.6
30°	1176.5	1260.3	1349.5	1428.3	1514.5	1595.8	1672.8	1741.7	1800.8	1848.8	1881.5
32.5°	1120.5	1216.6	1321.2	1418.5	1528.7	1637.0	1747.9	1853.1	1953.5	2032.9	2082.8
35°	1057.7	1161.1	1276.9	1392.0	1524.4	1666.0	1815.6	1957.2	2102.5	2229.3	2329.1
37.5°	981.4	1093.4	1220.2	1353.8	1505.9	1675.8	1864.2	2056.9	2242.2	2434.3	2574.7
40°	901.3	1010.9	1142.7	1295.4	1470.8	1670.9	1901.8	2151.7	2420.2	2667.7	2881.3
42.5°	833.0	940.1	1078.0	1228.9	1417.9	1652.4	1927.0	2236.7	2567.3	2888.1	3171.9
45°	765.9	880.4	1019.5	1179.0	1385.2	1645.1	1959.7	2310.6	2688.0	3068.5	3430.5
47.5°	712.9	826.2	966.6	1137.7	1358.8	1640.7	1990.4	2379.5	2786.5	3202.7	3631.8
50°	662.5	770.8	907.5	1087.9	1331.1	1634.0	2008.9	2434.3	2863.4	3308.0	3774.6
52.5°	610.7	723.4	856.4	1031.2	1294.7	1620.4	2014.5	2477.4	2942.9	3408.9	3908.2
55°	558.4	671.1	804.1	985.1	1245.5	1594.0	2010.1	2508.8	3026.0	3515.4	4030.1
57.5°	494.4	605.2	744.3	926.6	1182.1	1541.0	1989.2	2522.4	3077.7	3615.2	4152.6
60°	422.3	527.0	658.8	844.7	1104.5	1464.7	1942.4	2503.3	3101.1	3681.1	4282.6
62.5°	331.8	423.0	544.2	728.9	991.8	1354.5	1840.2	2418.9	3044.5	3664.4	4338.6
63°	311.5	399.6	524.5	698.2	958.6	1316.3	1810.0	2390.0	3019.2	3649.0	4331.8
65°	237.6	302.9	406.3	561.5	810.2	1140.2	1651.2	2226.2	2860.4	3495.7	4225.3
67.5°	175.5	209.3	272.7	376.8	570.1	887.2	1353.2	1922.7	2523.0	3120.2	3862.7
70°	145.3	158.2	187.8	241.3	352.8	588.6	956.1	1463.4	2028.0	2542.1	3212.5
72.5°	129.9	139.1	152.7	176.7	222.9	345.4	621.8	950.0	1412.3	1856.8	2423.3
75°	116.4	122.5	133.6	147.8	168.7	216.1	328.8	563.3	863.2	1251.0	1662.3
77.5°	102.2	108.4	119.4	130.5	144.1	164.4	203.8	320.8	516.5	730.2	1020.2
80°	88.7	91.7	101.0	117.0	126.8	143.4	156.4	200.7	281.4	382.3	543.6
82.5°	73.3	73.9	80.0	92.3	104.7	110.8	114.5	126.2	161.9	201.9	266.6
85°	52.3	49.9	53.6	58.5	68.3	62.8	67.1	70.8	86.2	104.0	190.9
87.5°	23.4	18.5	21.5	24.0	21.5	14.8	21.5	17.9	22.2	43.7	49.3
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	0°
2.5°	1019.5	1015.8	1015.8	1015.2	1015.8	1014.6	1012.2	1012.2	1014.0	1013.4	1013.4	2.5°
5°	1041.1	1036.2	1034.9	1034.3	1034.3	1031.2	1027.5	1025.7	1025.1	1022.6	1020.8	5°
7.5°	1069.4	1066.3	1068.2	1064.5	1063.3	1062.6	1057.7	1054.0	1048.5	1046.0	1036.8	7.5°
10°	1092.8	1091.0	1095.9	1095.3	1095.9	1095.9	1089.1	1085.4	1077.4	1073.1	1061.4	10°
12.5°	1113.1	1114.4	1123.6	1123.6	1125.4	1127.9	1124.2	1116.2	1113.1	1108.8	1096.5	12.5°
15°	1164.8	1169.8	1176.5	1187.6	1190.7	1191.3	1194.4	1187.6	1179.6	1168.5	1153.8	15°
17.5°	1235.0	1244.9	1267.7	1283.7	1286.7	1289.8	1288.0	1286.7	1272.0	1262.7	1247.3	17.5°
20°	1323.1	1347.1	1379.1	1401.2	1411.1	1412.3	1424.6	1416.0	1402.5	1384.0	1361.8	20°
22.5°	1421.6	1461.6	1502.2	1534.8	1553.9	1562.6	1575.5	1563.2	1545.3	1534.2	1504.7	22.5°
25°	1556.4	1600.1	1646.9	1672.8	1721.4	1735.6	1742.9	1739.2	1720.8	1728.8	1701.7	25°
27.5°	1741.1	1778.7	1844.5	1877.2	1922.7	1949.2	1943.6	1974.4	1980.0	1999.1	2002.1	27.5°
30°	1942.4	2004.6	2093.3	2159.1	2228.7	2273.6	2309.4	2336.4	2367.8	2420.8	2452.8	30°
32.5°	2159.7	2249.6	2362.9	2502.7	2650.4	2771.1	2907.2	2930.6	3000.7	2980.4	2966.9	32.5°
35°	2401.7	2515.0	2660.3	2843.7	3058.6	3258.1	3389.2	3455.1	3482.8	3498.2	3404.6	35°
37.5°	2725.5	2878.8	3040.8	3240.9	3405.2	3591.8	3742.6	3906.4	3981.5	3945.8	3766.6	37.5°
40°	3084.5	3227.9	3447.1	3610.9	3804.8	4112.0	4316.4	4513.4	4575.0	4456.2	4175.4	40°
42.5°	3444.6	3641.6	3879.3	4112.0	4334.9	4613.2	4884.1	5078.6	5146.3	4943.2	4610.1	42.5°
45°	3765.4	4017.8	4297.3	4536.2	4847.7	5211.6	5543.4	5699.8	5687.5	5361.2	4986.3	45°
47.5°	4044.9	4372.4	4687.7	5009.7	5323.6	5734.3	6063.1	6242.8	6115.4	5772.5	5347.7	47.5°
50°	4275.8	4671.7	5052.1	5422.1	5807.6	6244.1	6561.1	6727.4	6533.4	6099.4	5624.7	50°
52.5°	4451.2	4941.9	5380.3	5794.0	6254.5	6726.1	7008.1	7108.4	6806.2	6352.4	5832.2	52.5°
55°	4616.9	5171.6	5656.7	6126.5	6699.6	7122.6	7386.7	7368.3	6977.9	6462.6	5962.1	55°
57.5°	4741.8	5367.4	5883.9	6418.9	7036.4	7488.3	7641.0	7519.1	7049.3	6495.2	5999.6	57.5°
60°	4899.4	5520.0	6085.8	6683.0	7356.6	7738.9	7759.2	7540.6	7029.0	6433.7	5946.7	60°
62.5°	5000.4	5615.5	6214.5	6864.0	7600.4	7879.9	7734.6	7447.7	6912.1	6281.6	5825.4	62.5°
63°	5010.3	5624.7	6225.0	6881.9	7634.8	7886.0	7711.8	7405.8	6877.6	6239.7	5793.4	63°
65°	4965.9	5598.2	6176.9	6849.9	7643.5	7813.4	7545.0	7234.0	6687.3	6026.1	5605.0	65°
67.5°	4656.3	5313.8	5866.0	6497.1	7311.0	7405.2	7136.2	6798.2	6284.7	5565.6	5193.1	67.5°
70°	4101.5	4726.4	5118.0	5704.1	6420.1	6532.8	6292.1	6030.4	5574.2	4973.3	4664.3	70°
72.5°	3304.3	3918.1	4153.3	4602.1	5171.0	5146.3	4977.0	4944.4	4704.3	4200.1	4014.1	72.5°
75°	2470.0	3054.3	3153.4	3336.3	3654.0	3646.0	3685.4	3825.7	3945.8	3647.8	3409.5	75°
77.5°	1629.0	2210.2	2271.8	2484.8	2572.9	2814.2	3097.4	3450.2	3625.0	3503.1	3210.7	77.5°
80°	901.3	1512.1	1499.8	1582.9	1738.6	2089.6	2518.7	3042.6	3392.3	3304.9	2984.7	80°
82.5°	468.5	955.5	941.3	956.1	1100.8	1395.7	1722.0	2150.5	2511.9	2519.9	2412.2	82.5°
85°	348.5	685.8	726.5	759.7	855.8	958.6	1018.3	1155.6	1353.8	1538.5	1604.4	85°
87.5°	128.1	411.9	512.8	551.0	553.5	540.6	440.2	484.5	440.8	521.5	728.3	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°
1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3
1014.6	1014.6	1014.0	1015.2	1015.8	1017.7	1017.1
1018.9	1017.1	1015.2	1014.0	1012.8	1013.4	1012.2
1030.0	1023.8	1018.9	1014.6	1010.9	1010.3	1006.6
1054.6	1043.5	1034.3	1027.5	1020.2	1016.5	1009.7
1086.0	1073.7	1062.0	1052.2	1043.5	1038.6	1033.7
1140.8	1123.0	1108.8	1098.3	1089.7	1084.2	1079.3
1222.1	1199.9	1178.4	1158.1	1155.6	1142.7	1142.7
1334.1	1304.0	1276.3	1259.0	1251.0	1233.8	1233.8
1489.3	1459.7	1418.5	1397.6	1399.4	1384.6	1391.4
1690.0	1665.4	1622.9	1614.3	1614.3	1598.3	1574.3
1991.1	1982.4	1935.6	1947.3	1922.7	1863.0	1798.4
2438.0	2438.0	2347.5	2282.3	2225.6	2132.7	2018.8
2885.6	2827.1	2688.6	2577.8	2460.2	2318.0	2171.4
3263.6	3107.9	2967.5	2832.1	2655.4	2502.7	2297.0
3582.5	3434.8	3274.1	3067.9	2860.4	2647.4	2383.2
3977.8	3798.0	3556.7	3297.5	3042.6	2749.6	2443.6
4339.2	4113.9	3809.1	3481.0	3156.5	2829.6	2472.5
4679.0	4388.4	4012.3	3618.3	3248.9	2878.8	2484.8
4999.2	4609.5	4171.7	3716.1	3312.3	2905.3	2481.7
5210.4	4771.4	4272.1	3775.2	3350.4	2914.5	2473.1
5342.7	4870.5	4331.2	3807.9	3369.5	2916.4	2472.5
5417.2	4926.5	4363.2	3830.7	3390.5	2927.5	2487.3
5475.1	4970.9	4398.9	3869.4	3440.3	2979.2	2547.0
5529.9	5087.2	4491.9	3940.9	3527.1	3075.9	2678.1
5552.7	5308.2	4680.9	4072.6	3648.4	3231.0	2882.5
5550.8	5350.1	4735.7	4108.9	3680.4	3272.3	2934.9
5483.7	5483.1	4985.0	4282.6	3829.4	3463.1	3153.4
5284.9	5549.6	5260.8	4511.6	4060.9	3777.7	3482.2
4970.2	5468.9	5298.4	4571.9	4225.3	4066.5	3701.4
4428.5	5083.5	4946.9	4314.6	4169.3	4123.1	3706.9
3581.9	4086.8	4028.3	3686.0	3739.5	3834.4	3311.0
2885.6	2869.6	2861.0	2736.6	2964.4	3157.1	2461.4
2410.3	1985.5	1843.9	1795.9	2171.4	2319.2	1527.5
2253.3	1783.6	1430.8	1370.5	1627.2	1706.0	921.0
1722.0	1731.9	1499.1	1284.9	1265.8	1158.7	674.8
842.8	857.0	905.6	826.8	709.2	597.8	212.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)