

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: P146054

Luminaire Tested: **LDRL-SLR-F04-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146054
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-F04-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8123.3 lumens
Efficiency: N/A
Efficacy: 79.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

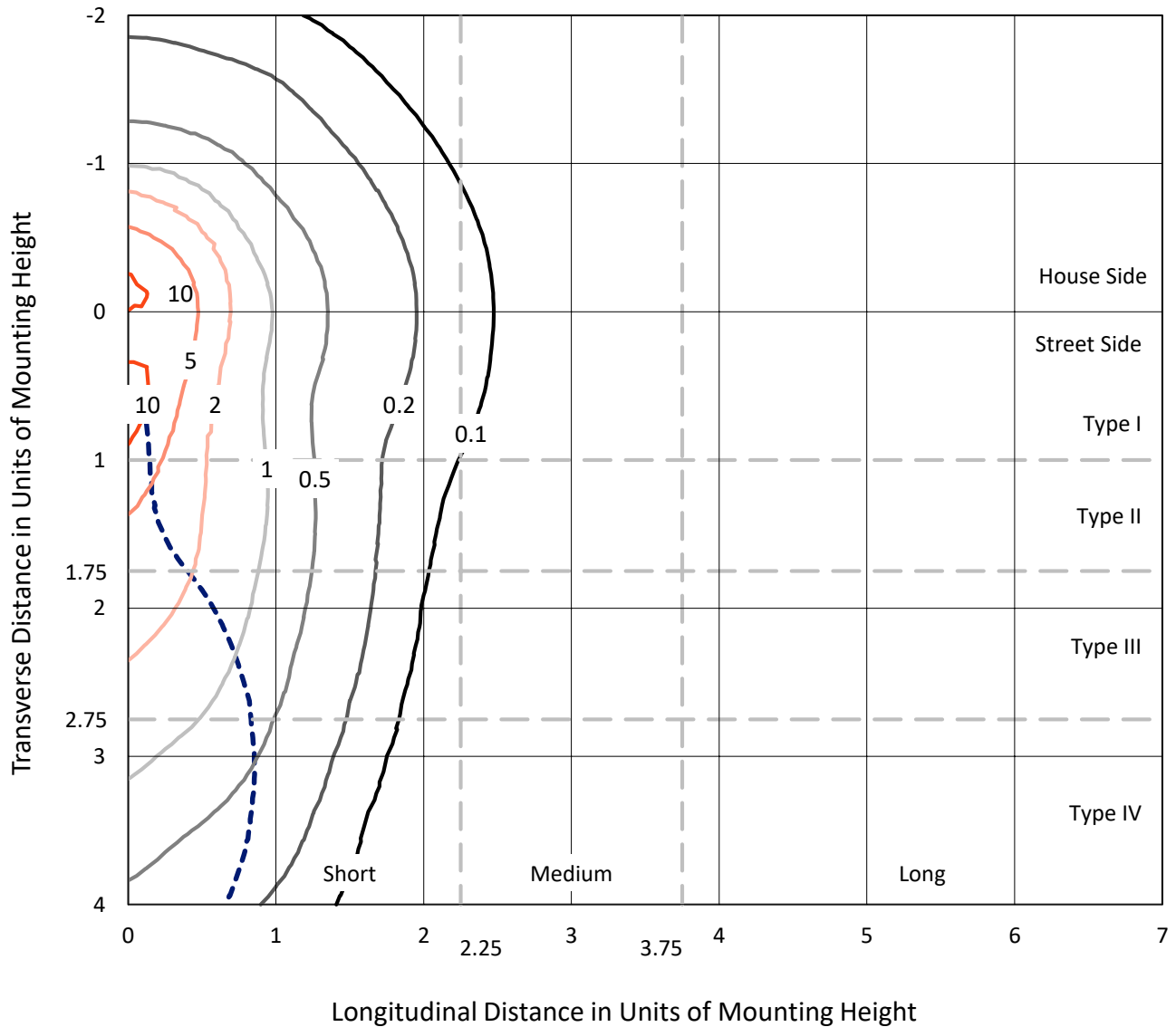
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

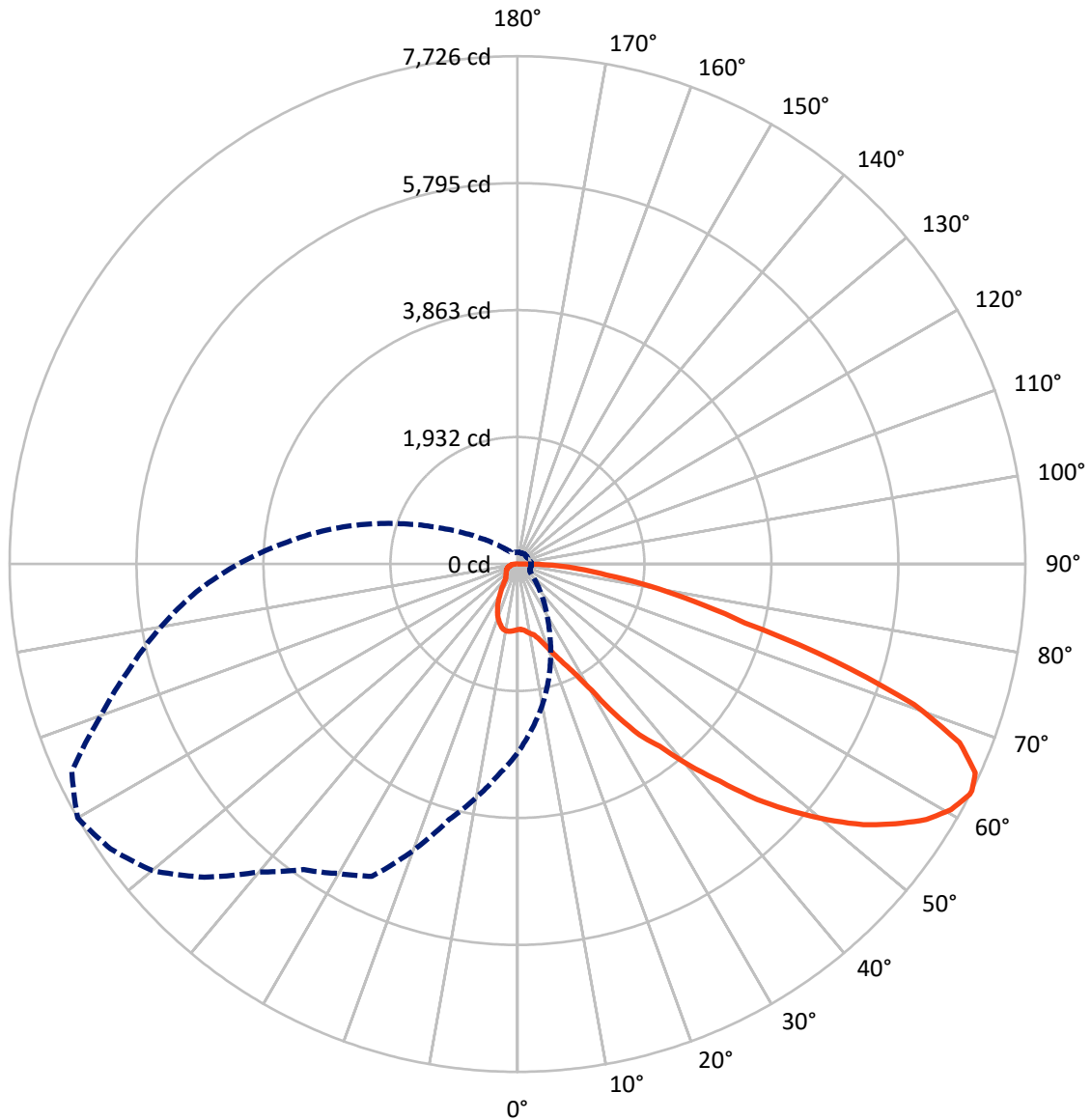
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.8 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
House Side	Lumens	1700.4	0.0	1700.4
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	6422.9	0.0	6422.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	8123.3	0.0	8123.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	98.0	1.2
10°-20°	305.8	3.8
20°-30°	540.8	6.7
30°-40°	853.8	10.5
40°-50°	1255.5	15.5
50°-60°	1653.8	20.4
60°-70°	1843.3	22.7
70°-80°	1211.1	14.9
80°-90°	361.2	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°	8123.3	100.0
0°-180°	8123.3	100.0

Coefficient of Utilization



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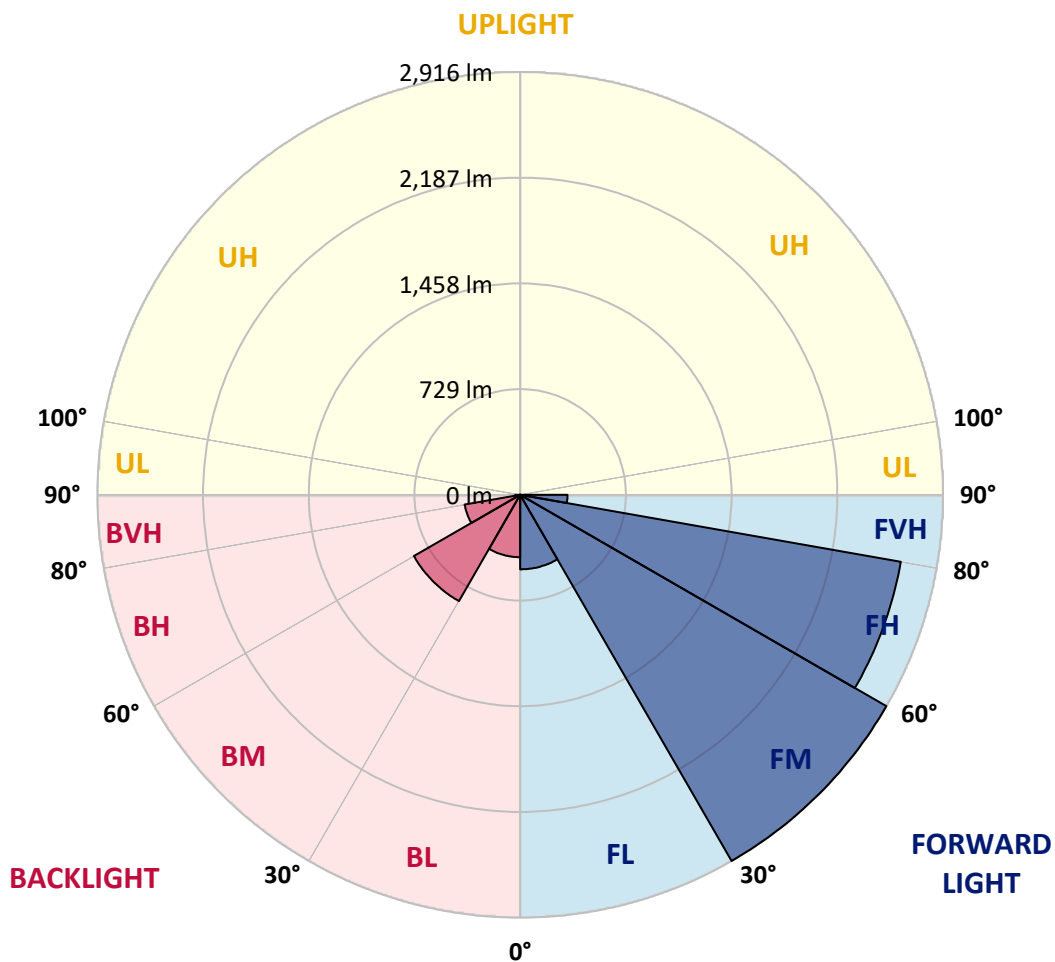
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	514.1	6.3			
FM	(30°-60°)	2916.5	35.9			
FH	(60°-80°)	2665.8	32.8			G2/5000
FVH	(80°-90°)	326.4	4.0			G3/500
BL	(0°-30°)	430.5	5.3	B1/500		
BM	(30°-60°)	846.6	10.4	B1/1000		
BH	(60°-80°)	388.6	4.8	B1/500		G1/500
BVH	(80°-90°)	34.8	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°	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7
2.5°	996.5	998.3	998.3	996.5	998.3	997.7	997.7	999.5	1000.1	1003.1	1001.3
5°	991.7	992.3	992.9	991.7	992.3	992.3	993.5	995.3	995.9	999.5	997.7
7.5°	986.2	987.4	985.0	985.6	987.4	989.8	989.8	992.3	996.5	998.3	997.7
10°	989.2	988.0	986.2	985.6	986.8	987.4	988.6	992.9	996.5	998.3	1001.3
12.5°	1012.8	1009.1	1007.3	1006.7	1007.3	1006.1	1010.4	1011.6	1012.8	1015.2	1014.0
15°	1057.4	1052.6	1049.6	1046.5	1053.2	1050.2	1050.2	1046.5	1040.5	1031.5	1020.0
17.5°	1119.5	1114.1	1111.7	1110.5	1111.1	1105.7	1094.8	1077.3	1056.2	1032.1	1009.7
20°	1208.8	1217.2	1213.6	1197.3	1191.3	1167.2	1132.8	1096.6	1059.8	1021.2	984.4
22.5°	1363.2	1358.4	1342.1	1301.7	1265.5	1211.2	1149.7	1091.2	1036.9	980.8	932.5
25°	1542.4	1502.0	1456.1	1376.5	1293.2	1204.0	1115.3	1045.9	973.6	912.0	854.1
27.5°	1761.9	1674.5	1557.4	1427.8	1303.5	1184.7	1079.7	988.0	905.4	839.6	775.1
30°	1977.9	1831.9	1669.0	1497.1	1329.4	1169.0	1030.3	924.1	828.8	744.3	679.2
32.5°	2127.5	1950.7	1748.1	1535.7	1331.9	1143.7	976.0	849.3	741.9	656.9	578.5
35°	2250.5	2029.8	1775.8	1529.7	1293.2	1084.5	898.2	757.6	643.6	555.5	486.8
37.5°	2335.0	2070.2	1774.0	1494.7	1224.5	990.4	808.9	665.9	559.8	477.7	414.4
40°	2394.1	2082.8	1750.5	1435.0	1145.5	899.4	713.6	583.3	490.4	426.5	380.6
42.5°	2422.4	2074.4	1715.5	1378.3	1067.1	825.8	641.8	527.8	452.4	404.1	370.4
45°	2434.5	2053.9	1676.3	1322.8	1003.1	762.4	605.0	510.9	451.8	410.2	373.4
47.5°	2431.5	2031.6	1641.3	1277.0	965.1	745.5	612.2	533.8	474.1	422.2	375.2
50°	2423.0	2011.1	1619.0	1260.1	964.5	770.9	652.7	572.4	500.0	433.1	373.4
52.5°	2422.4	2009.2	1631.0	1280.0	999.5	828.2	713.6	617.1	525.4	445.2	374.0
55°	2436.9	2041.8	1682.3	1333.7	1083.9	908.4	782.3	664.7	553.7	453.6	372.2
57.5°	2495.4	2123.2	1779.4	1453.7	1192.5	1006.1	848.7	700.3	564.6	451.2	363.7
60°	2623.9	2266.2	1929.0	1623.2	1331.9	1095.4	887.9	712.4	559.8	436.7	345.6
62.5°	2824.2	2473.1	2134.1	1789.7	1455.5	1149.1	897.0	702.7	540.5	412.6	323.3
63°	2875.4	2520.8	2175.7	1824.1	1476.6	1154.5	896.3	699.1	535.0	406.6	317.9
65°	3089.6	2725.2	2342.8	1937.5	1533.3	1165.4	882.5	676.2	510.9	378.2	293.2
67.5°	3411.7	2950.8	2508.7	2043.0	1564.7	1146.1	839.0	619.5	448.8	328.7	256.4
70°	3626.4	3100.4	2607.6	2077.4	1527.9	1058.0	739.5	519.4	366.7	270.8	219.0
72.5°	3631.8	2966.5	2473.7	1898.9	1319.2	872.8	579.1	392.7	285.3	220.2	188.8
75°	3244.0	2506.9	2021.9	1559.3	1015.2	617.1	407.2	286.5	219.0	181.6	163.5
77.5°	2411.6	1828.9	1459.1	1049.0	659.3	399.9	283.5	212.3	173.7	150.2	136.9
80°	1496.5	1143.1	885.5	627.3	395.1	266.0	207.5	168.9	146.0	125.5	114.6
82.5°	902.4	640.0	500.0	378.8	252.7	191.8	159.8	142.4	123.7	105.6	97.1
85°	661.1	457.8	335.4	234.0	156.2	126.7	112.2	108.6	95.9	81.4	76.6
87.5°	208.1	218.4	226.8	138.1	75.4	57.3	48.9	57.3	54.9	38.6	42.2
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7
2.5°	1004.3	1006.7	1004.9	1004.9	1003.7	1003.1	1007.3	1006.1	1007.3	1006.7	1007.9
5°	1000.7	1002.5	1001.3	1002.5	1001.3	1001.3	1006.7	1006.7	1009.1	1010.4	1013.4
7.5°	1001.9	1002.5	1001.9	1003.7	1002.5	1001.3	1004.3	1006.1	1010.4	1014.0	1017.0
10°	1006.1	1007.9	1007.3	1007.3	1003.7	1001.3	1003.1	1004.3	1008.5	1010.4	1014.0
12.5°	1016.4	1014.0	1009.1	1006.1	997.7	992.9	990.4	989.2	992.3	994.7	996.5
15°	1014.0	1000.7	989.8	980.8	968.1	960.3	954.3	953.7	954.3	954.9	956.7
17.5°	989.2	971.1	949.4	938.0	923.5	915.0	910.8	907.8	907.2	908.4	911.4
20°	953.7	927.1	903.0	883.1	867.4	854.1	857.1	850.5	853.5	855.3	860.8
22.5°	899.4	862.6	834.8	810.7	792.0	778.1	778.1	772.1	773.3	778.7	786.0
25°	811.3	776.9	737.1	720.2	699.1	689.5	687.6	686.4	691.3	697.9	702.1
27.5°	731.7	684.6	645.4	623.1	600.8	603.2	591.1	598.4	603.8	609.2	614.1
30°	624.3	585.7	550.1	527.8	501.3	501.9	503.7	504.9	509.7	516.9	526.6
32.5°	521.2	479.5	446.4	422.2	406.6	401.7	395.1	406.0	412.0	419.2	428.9
35°	436.1	392.7	364.9	343.8	334.8	328.1	326.3	325.1	330.6	334.2	342.0
37.5°	375.2	345.6	325.1	310.0	301.6	294.4	292.5	291.3	290.7	289.5	294.4
40°	350.5	326.9	309.4	295.6	287.7	283.5	281.7	279.3	276.9	273.9	273.2
42.5°	343.2	317.9	297.4	283.5	277.5	276.9	276.9	275.7	273.2	269.0	266.0
45°	340.2	309.4	285.9	275.1	270.8	271.4	271.4	271.4	269.6	265.4	260.6
47.5°	334.8	299.2	275.1	266.0	264.2	265.4	266.6	266.6	265.4	261.8	256.4
50°	324.5	283.5	258.2	249.7	249.1	249.7	249.7	250.9	249.7	246.7	241.9
52.5°	316.7	271.4	245.5	238.9	238.9	238.3	237.7	237.7	237.1	234.6	231.0
55°	309.4	263.6	240.1	234.6	235.8	235.8	234.6	234.0	231.6	228.6	225.0
57.5°	299.2	255.2	234.6	231.0	232.2	231.6	231.0	230.4	228.0	224.4	219.6
60°	281.1	240.1	223.8	221.4	223.2	223.8	226.2	226.8	225.6	221.4	214.7
62.5°	261.2	221.4	209.3	207.5	209.3	211.1	212.9	211.7	211.7	207.5	201.5
63°	254.5	218.4	205.1	205.1	206.9	208.7	209.9	208.7	209.3	204.5	198.5
65°	239.5	207.5	197.2	197.8	199.7	200.9	201.5	201.5	200.9	197.2	191.8
67.5°	214.1	191.8	185.8	188.8	191.2	191.8	191.8	193.0	191.8	189.4	184.6
70°	191.2	176.7	172.5	176.1	177.3	177.9	177.9	177.9	176.7	174.3	170.1
72.5°	173.7	166.5	165.9	165.3	165.9	164.1	164.1	162.9	159.8	158.0	154.4
75°	154.4	150.8	151.4	150.8	149.6	149.0	146.0	144.8	141.1	138.7	133.9
77.5°	132.7	133.3	132.7	133.3	134.5	135.1	130.9	127.9	124.9	122.4	120.0
80°	110.4	111.6	110.4	111.6	112.2	112.2	108.0	103.1	100.7	102.5	103.1
82.5°	98.3	98.3	93.5	94.7	93.5	91.7	88.7	86.9	85.1	83.8	86.9
85°	77.8	78.4	79.6	78.4	76.0	74.2	71.2	68.8	67.0	68.8	73.0
87.5°	46.4	50.1	48.3	48.3	47.7	47.7	45.2	44.0	42.2	49.5	53.1
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7
2.5°	1007.3	1009.1	1009.7	1009.1	1009.7	1011.0	1006.1	1011.0	1011.6	1007.9	1009.1
5°	1015.8	1018.8	1023.0	1023.0	1026.0	1027.8	1025.4	1032.1	1033.3	1032.7	1035.7
7.5°	1021.8	1026.0	1031.5	1034.5	1039.9	1042.3	1044.1	1050.2	1051.4	1053.8	1056.2
10°	1021.2	1027.2	1032.1	1040.5	1047.1	1052.0	1055.6	1062.2	1064.6	1068.3	1070.1
12.5°	1003.7	1010.4	1019.4	1031.5	1043.5	1051.4	1061.0	1070.7	1074.3	1079.1	1082.1
15°	964.5	969.9	982.6	998.3	1014.6	1034.5	1048.4	1063.4	1070.1	1074.9	1079.1
17.5°	913.2	918.1	929.5	943.4	965.1	984.4	1005.5	1028.4	1039.9	1045.3	1047.1
20°	865.6	872.8	875.8	892.1	899.4	918.7	936.8	962.1	976.6	986.2	992.3
22.5°	790.8	794.4	810.1	816.7	822.2	834.2	856.5	878.9	898.2	913.8	918.7
25°	708.2	717.8	726.2	731.7	744.3	744.9	763.0	778.7	802.9	817.9	830.0
27.5°	617.1	631.5	636.4	640.0	649.6	661.1	667.7	683.4	697.3	714.8	736.5
30°	525.4	539.3	548.9	554.3	563.4	574.2	579.1	589.3	607.4	626.7	643.6
32.5°	439.7	454.2	459.0	476.5	478.9	489.2	492.8	509.1	519.4	535.6	555.5
35°	355.9	371.0	385.4	395.1	406.0	405.3	415.0	430.1	439.1	456.0	469.3
37.5°	298.6	307.6	317.9	328.7	340.8	349.9	358.9	365.5	372.8	384.2	396.3
40°	273.2	275.7	279.9	286.5	295.0	301.6	308.2	313.7	319.1	328.1	336.0
42.5°	263.0	261.2	261.2	260.0	263.0	266.6	272.0	273.9	282.3	287.7	290.7
45°	255.8	251.5	248.5	244.9	243.7	244.9	247.9	252.1	257.6	259.4	259.4
47.5°	251.5	244.9	240.1	234.6	231.6	231.6	233.4	236.5	239.5	240.1	239.5
50°	237.1	230.4	224.4	219.6	217.2	217.2	217.8	222.0	222.6	221.4	222.0
52.5°	226.2	219.6	213.5	209.3	206.3	206.9	208.7	210.5	212.3	211.1	209.9
55°	219.6	211.7	206.3	201.5	197.8	199.1	200.9	203.3	206.3	204.5	202.7
57.5°	213.5	206.9	200.3	195.4	191.2	192.4	194.2	197.8	201.5	197.8	195.4
60°	208.1	201.5	194.8	190.0	185.2	186.4	188.8	192.4	195.4	190.6	187.6
62.5°	194.8	188.8	184.0	181.6	178.5	180.4	182.2	186.4	185.2	180.4	176.7
63°	192.4	186.4	182.2	179.8	177.3	179.8	180.4	184.6	182.8	177.9	174.9
65°	185.2	180.4	176.1	173.7	171.3	172.5	172.5	174.3	171.9	168.3	165.9
67.5°	178.5	173.1	168.9	164.1	161.7	160.4	159.8	159.2	157.4	155.6	155.0
70°	164.1	160.4	156.8	152.6	149.0	146.6	145.4	144.2	143.0	142.4	141.8
72.5°	148.4	145.4	141.8	139.3	136.3	134.5	131.5	130.9	129.7	128.5	127.9
75°	131.5	127.9	126.7	124.3	122.4	121.2	118.8	118.2	117.0	115.2	114.6
77.5°	116.4	115.2	113.4	112.8	109.8	108.0	106.8	106.2	105.0	103.7	102.5
80°	103.7	103.1	101.9	101.3	99.5	97.1	95.9	96.5	94.7	94.1	92.3
82.5°	93.5	94.1	94.1	92.3	90.5	87.5	86.3	88.1	86.9	84.4	82.0
85°	79.6	79.0	79.6	79.0	75.4	72.4	71.2	72.4	71.8	68.2	67.6
87.5°	56.7	56.1	54.9	58.5	53.7	43.4	44.6	50.7	48.9	47.0	45.8
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°	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7
2.5°	1011.6	1009.7	1011.0	1011.6	1009.7	1014.0	1009.7	1010.4	1011.6	1007.9	1007.3
5°	1038.1	1038.1	1042.9	1043.5	1042.9	1048.4	1047.7	1048.4	1047.1	1046.5	1044.1
7.5°	1059.8	1062.2	1065.8	1071.3	1073.1	1077.3	1078.5	1079.1	1081.5	1083.9	1082.7
10°	1075.5	1082.1	1085.1	1090.6	1096.0	1099.0	1102.0	1106.9	1108.7	1110.5	1108.1
12.5°	1086.4	1094.2	1099.0	1105.7	1112.3	1117.1	1122.5	1128.6	1134.6	1136.4	1133.4
15°	1080.9	1090.0	1097.2	1104.4	1114.7	1123.8	1134.0	1144.9	1152.7	1155.7	1152.1
17.5°	1047.1	1056.2	1067.1	1077.9	1088.8	1105.7	1120.1	1138.2	1150.9	1159.9	1161.1
20°	1000.7	1006.1	1021.8	1032.7	1050.2	1070.1	1091.8	1112.9	1127.4	1143.7	1153.3
22.5°	931.9	942.8	960.3	979.0	996.5	1022.4	1045.3	1073.1	1097.8	1120.1	1141.2
25°	848.1	863.2	883.7	909.6	932.5	960.3	993.5	1024.2	1065.8	1100.8	1146.1
27.5°	757.6	785.4	813.7	840.9	866.2	897.6	931.9	966.3	1014.0	1070.1	1129.2
30°	672.0	694.9	730.5	761.8	791.4	830.0	865.6	903.6	948.8	1015.2	1082.1
32.5°	582.7	601.4	629.1	667.7	702.1	747.4	778.7	824.0	876.4	946.4	1022.4
35°	490.4	516.3	538.7	565.2	591.1	636.4	683.4	733.5	793.8	868.6	951.8
37.5°	409.0	425.3	436.1	463.3	486.2	524.8	579.7	640.0	706.3	782.3	871.6
40°	341.4	351.7	363.7	381.8	401.1	436.1	486.8	554.3	623.7	699.7	789.0
42.5°	295.0	301.6	302.8	316.7	334.8	369.2	409.6	471.7	548.3	627.9	717.2
45°	263.0	263.0	262.4	268.4	282.9	312.5	349.2	404.7	477.7	561.0	653.9
47.5°	240.7	242.5	241.9	244.3	253.9	275.7	308.8	355.9	422.2	503.7	597.2
50°	223.8	226.2	226.8	227.4	231.0	249.1	277.5	315.5	374.6	452.4	546.5
52.5°	210.5	211.1	211.1	210.5	211.7	222.0	245.5	280.5	335.4	405.3	495.8
55°	203.3	203.9	203.9	203.9	203.9	210.5	227.4	255.8	299.8	365.5	447.6
57.5°	194.8	194.8	196.0	196.0	196.0	198.5	210.5	234.0	267.8	320.3	393.3
60°	187.6	189.4	191.8	192.4	191.8	191.8	197.8	213.5	235.8	273.9	335.4
62.5°	176.7	179.1	182.2	183.4	184.0	182.8	185.8	192.4	205.7	225.6	267.2
63°	174.9	177.3	179.8	181.0	181.6	180.4	182.8	188.2	199.1	215.3	252.7
65°	167.1	170.1	170.7	171.3	170.7	170.1	169.5	169.5	172.5	178.5	198.5
67.5°	156.2	158.0	158.0	159.2	156.2	155.0	153.8	152.6	150.8	151.4	158.6
70°	143.6	144.8	144.2	143.6	142.4	140.5	139.3	137.5	133.9	132.7	136.3
72.5°	129.1	130.3	130.3	130.3	127.9	126.7	125.5	124.3	123.1	124.3	125.5
75°	115.8	115.8	117.0	116.4	114.6	113.4	112.8	112.2	112.2	112.2	111.6
77.5°	103.1	102.5	102.5	100.7	99.5	98.9	100.1	100.7	100.1	98.9	98.3
80°	92.3	89.3	86.3	83.8	83.2	84.4	85.7	89.3	87.5	87.5	86.3
82.5°	78.4	71.8	67.6	68.2	66.4	67.0	68.2	72.4	71.2	71.8	74.2
85°	62.7	56.7	50.1	51.3	51.3	50.1	53.1	54.3	55.5	58.5	56.1
87.5°	44.0	38.6	32.0	27.7	29.0	30.2	31.4	30.2	26.5	27.7	27.1
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7
2.5°	1006.1	1006.7	1006.7	1002.5	1001.3	1002.5	1001.9	1001.9	998.3	998.9	997.7
5°	1042.9	1044.1	1040.5	1037.5	1033.3	1032.7	1032.1	1029.7	1027.2	1022.4	1020.0
7.5°	1082.1	1076.7	1075.5	1070.1	1068.3	1063.4	1059.8	1056.2	1053.2	1050.8	1049.0
10°	1106.9	1102.6	1101.4	1091.8	1088.8	1082.7	1079.1	1074.9	1071.3	1067.7	1067.1
12.5°	1129.2	1121.9	1117.7	1104.4	1098.4	1091.8	1088.8	1085.1	1083.9	1083.3	1085.8
15°	1146.7	1136.4	1128.6	1116.5	1111.7	1108.1	1108.7	1106.9	1114.1	1118.3	1126.2
17.5°	1158.1	1153.9	1152.1	1143.1	1146.1	1146.1	1154.5	1158.7	1172.0	1182.9	1193.7
20°	1164.2	1172.0	1187.1	1190.1	1197.3	1205.2	1217.9	1225.1	1239.0	1254.6	1269.7
22.5°	1169.6	1202.8	1233.5	1256.5	1272.7	1290.8	1299.9	1315.0	1324.6	1336.1	1359.0
25°	1199.8	1255.2	1309.5	1339.1	1377.7	1403.6	1424.1	1439.2	1456.1	1465.8	1491.7
27.5°	1191.3	1261.9	1334.3	1388.6	1448.9	1497.7	1541.2	1570.1	1591.8	1626.8	1648.5
30°	1152.7	1234.7	1322.2	1399.4	1483.9	1563.5	1638.9	1706.4	1764.3	1811.4	1843.4
32.5°	1097.8	1191.9	1294.5	1389.8	1497.7	1603.9	1712.5	1815.6	1913.9	1991.7	2040.6
35°	1036.3	1137.6	1251.0	1363.8	1493.5	1632.2	1778.8	1917.6	2059.9	2184.2	2281.9
37.5°	961.5	1071.3	1195.5	1326.4	1475.4	1641.9	1826.5	2015.3	2196.8	2385.0	2522.6
40°	883.1	990.4	1119.5	1269.1	1441.0	1637.1	1863.3	2108.2	2371.2	2613.6	2823.0
42.5°	816.1	921.1	1056.2	1204.0	1389.2	1619.0	1888.0	2191.4	2515.3	2829.6	3107.7
45°	750.4	862.6	998.9	1155.1	1357.2	1611.7	1920.0	2263.8	2633.5	3006.3	3361.0
47.5°	698.5	809.5	947.0	1114.7	1331.3	1607.5	1950.1	2331.3	2730.1	3137.8	3558.2
50°	649.0	755.2	889.1	1065.8	1304.1	1600.9	1968.2	2385.0	2805.5	3241.0	3698.2
52.5°	598.4	708.8	839.0	1010.4	1268.5	1587.6	1973.7	2427.3	2883.3	3339.9	3829.1
55°	547.1	657.5	787.8	965.1	1220.3	1561.7	1969.4	2458.0	2964.7	3444.2	3948.5
57.5°	484.4	592.9	729.3	907.8	1158.1	1509.8	1948.9	2471.3	3015.4	3542.0	4068.5
60°	413.8	516.3	645.4	827.6	1082.1	1435.0	1903.1	2452.6	3038.3	3606.5	4195.8
62.5°	325.1	414.4	533.2	714.2	971.7	1327.0	1802.9	2370.0	2982.8	3590.2	4250.7
63°	305.2	391.5	513.9	684.0	939.2	1289.6	1773.4	2341.6	2958.1	3575.1	4244.1
65°	232.8	296.8	398.1	550.1	793.8	1117.1	1617.8	2181.2	2802.4	3424.9	4139.7
67.5°	171.9	205.1	267.2	369.2	558.6	869.2	1325.8	1883.8	2471.9	3057.0	3784.4
70°	142.4	155.0	184.0	236.5	345.6	576.7	936.8	1433.8	1986.9	2490.6	3147.5
72.5°	127.3	136.3	149.6	173.1	218.4	338.4	609.2	930.7	1383.7	1819.2	2374.2
75°	114.0	120.0	130.9	144.8	165.3	211.7	322.1	551.9	845.7	1225.7	1628.6
77.5°	100.1	106.2	117.0	127.9	141.1	161.1	199.7	314.3	506.1	715.4	999.5
80°	86.9	89.9	98.9	114.6	124.3	140.5	153.2	196.6	275.7	374.6	532.6
82.5°	71.8	72.4	78.4	90.5	102.5	108.6	112.2	123.7	158.6	197.8	261.2
85°	51.3	48.9	52.5	57.3	67.0	61.5	65.7	69.4	84.4	101.9	187.0
87.5°	22.9	18.1	21.1	23.5	21.1	14.5	21.1	17.5	21.7	42.8	48.3
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°	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	997.7	0°
2.5°	998.9	995.3	995.3	994.7	995.3	994.1	991.7	991.7	993.5	992.9	992.9	2.5°
5°	1020.0	1015.2	1014.0	1013.4	1013.4	1010.4	1006.7	1004.9	1004.3	1001.9	1000.1	5°
7.5°	1047.7	1044.7	1046.5	1042.9	1041.7	1041.1	1036.3	1032.7	1027.2	1024.8	1015.8	7.5°
10°	1070.7	1068.9	1073.7	1073.1	1073.7	1073.7	1067.1	1063.4	1055.6	1051.4	1039.9	10°
12.5°	1090.6	1091.8	1100.8	1100.8	1102.6	1105.1	1101.4	1093.6	1090.6	1086.4	1074.3	12.5°
15°	1141.2	1146.1	1152.7	1163.6	1166.6	1167.2	1170.2	1163.6	1155.7	1144.9	1130.4	15°
17.5°	1210.0	1219.7	1242.0	1257.7	1260.7	1263.7	1261.9	1260.7	1246.2	1237.2	1222.1	17.5°
20°	1296.3	1319.8	1351.2	1372.9	1382.5	1383.7	1395.8	1387.3	1374.1	1356.0	1334.3	20°
22.5°	1392.8	1432.0	1471.8	1503.8	1522.5	1530.9	1543.6	1531.5	1514.0	1503.2	1474.2	22.5°
25°	1524.9	1567.7	1613.5	1638.9	1686.5	1700.4	1707.6	1704.0	1685.9	1693.8	1667.2	25°
27.5°	1705.8	1742.6	1807.2	1839.1	1883.8	1909.7	1904.3	1934.4	1939.9	1958.6	1961.6	27.5°
30°	1903.1	1964.0	2050.9	2115.4	2183.6	2227.6	2262.6	2289.1	2319.9	2371.8	2403.1	30°
32.5°	2116.0	2204.1	2315.1	2452.0	2596.8	2715.0	2848.3	2871.2	2940.0	2920.1	2906.8	32.5°
35°	2353.1	2464.1	2606.4	2786.2	2996.7	3192.1	3320.6	3385.1	3412.3	3427.4	3335.7	35°
37.5°	2670.3	2820.5	2979.2	3175.2	3336.3	3519.0	3666.8	3827.3	3900.9	3865.9	3690.3	37.5°
40°	3022.0	3162.6	3377.3	3537.7	3727.7	4028.7	4229.0	4422.0	4482.3	4365.9	4090.9	40°
42.5°	3374.9	3567.9	3800.7	4028.7	4247.1	4519.7	4785.1	4975.8	5042.1	4843.1	4516.7	42.5°
45°	3689.1	3936.4	4210.3	4444.3	4749.6	5106.0	5431.2	5584.4	5572.3	5252.6	4885.3	45°
47.5°	3963.0	4283.9	4592.7	4908.2	5215.8	5618.2	5940.3	6116.4	5991.5	5655.6	5239.3	47.5°
50°	4189.2	4577.0	4949.8	5312.3	5689.9	6117.6	6428.2	6591.1	6401.1	5975.9	5510.8	50°
52.5°	4361.1	4841.8	5271.3	5676.7	6127.9	6589.9	6866.2	6964.5	6668.3	6223.8	5714.1	52.5°
55°	4523.4	5066.8	5542.2	6002.4	6564.0	6978.4	7237.1	7219.0	6836.6	6331.7	5841.3	55°
57.5°	4645.8	5258.7	5764.7	6288.9	6893.9	7336.7	7486.3	7366.8	6906.6	6363.7	5878.1	57.5°
60°	4800.2	5408.2	5962.6	6547.7	7207.6	7582.2	7602.1	7387.9	6886.7	6303.4	5826.3	60°
62.5°	4899.1	5501.7	6088.6	6725.0	7446.4	7720.3	7577.9	7296.8	6772.1	6154.4	5707.4	62.5°
63°	4908.8	5510.8	6098.9	6742.5	7480.2	7726.3	7555.6	7255.8	6738.3	6113.4	5676.1	63°
65°	4865.4	5484.9	6051.9	6711.1	7488.7	7655.1	7392.2	7087.5	6551.9	5904.1	5491.5	65°
67.5°	4562.0	5206.2	5747.2	6365.5	7162.9	7255.2	6991.6	6660.5	6157.4	5452.9	5087.9	67.5°
70°	4018.5	4630.7	5014.4	5588.6	6290.1	6400.5	6164.7	5908.3	5461.3	4872.6	4569.8	70°
72.5°	3237.3	3838.7	4069.2	4508.9	5066.2	5042.1	4876.2	4844.3	4609.0	4115.0	3932.8	72.5°
75°	2420.0	2992.4	3089.6	3268.7	3580.0	3572.1	3610.7	3748.3	3865.9	3573.9	3340.5	75°
77.5°	1596.1	2165.5	2225.8	2434.5	2520.8	2757.2	3034.7	3380.3	3551.6	3432.2	3145.7	77.5°
80°	883.1	1481.4	1469.4	1550.8	1703.4	2047.2	2467.7	2981.0	3323.6	3237.9	2924.3	80°
82.5°	459.0	936.2	922.3	936.8	1078.5	1367.4	1687.1	2107.0	2461.0	2468.9	2363.3	82.5°
85°	341.4	672.0	711.8	744.3	838.4	939.2	997.7	1132.2	1326.4	1507.4	1571.9	85°
87.5°	125.5	403.5	502.5	539.9	542.3	529.6	431.3	474.7	431.9	510.9	713.6	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°
997.7	997.7	997.7	997.7	997.7	997.7	997.7
994.1	994.1	993.5	994.7	995.3	997.1	996.5
998.3	996.5	994.7	993.5	992.3	992.9	991.7
1009.1	1003.1	998.3	994.1	990.4	989.8	986.2
1033.3	1022.4	1013.4	1006.7	999.5	995.9	989.2
1064.0	1052.0	1040.5	1030.9	1022.4	1017.6	1012.8
1117.7	1100.2	1086.4	1076.1	1067.7	1062.2	1057.4
1197.3	1175.6	1154.5	1134.6	1132.2	1119.5	1119.5
1307.1	1277.6	1250.4	1233.5	1225.7	1208.8	1208.8
1459.1	1430.2	1389.8	1369.3	1371.1	1356.6	1363.2
1655.8	1631.6	1590.0	1581.6	1581.6	1565.9	1542.4
1950.7	1942.3	1896.4	1907.9	1883.8	1825.3	1761.9
2388.7	2388.7	2300.0	2236.0	2180.5	2089.5	1977.9
2827.2	2769.9	2634.2	2525.6	2410.4	2271.0	2127.5
3197.5	3044.9	2907.4	2774.7	2601.6	2452.0	2250.5
3510.0	3365.2	3207.8	3005.7	2802.4	2593.7	2335.0
3897.2	3721.1	3484.7	3230.7	2981.0	2693.9	2394.1
4251.3	4030.5	3732.0	3410.5	3092.6	2772.3	2422.4
4584.3	4299.6	3931.0	3545.0	3183.1	2820.5	2434.5
4897.9	4516.1	4087.2	3640.9	3245.2	2846.5	2431.5
5104.8	4674.8	4185.6	3698.8	3282.6	2855.5	2423.0
5234.5	4771.9	4243.5	3730.8	3301.3	2857.3	2422.4
5307.5	4826.8	4274.8	3753.1	3321.8	2868.2	2436.9
5364.2	4870.2	4309.8	3791.1	3370.7	2918.9	2495.4
5417.9	4984.2	4400.9	3861.0	3455.7	3013.6	2623.9
5440.2	5200.7	4586.1	3990.1	3574.5	3165.6	2824.2
5438.4	5241.8	4639.8	4025.7	3605.9	3206.0	2875.4
5372.7	5372.1	4884.1	4195.8	3751.9	3393.0	3089.6
5177.8	5437.2	5154.3	4420.2	3978.7	3701.2	3411.7
4869.6	5358.2	5191.1	4479.3	4139.7	3984.1	3626.4
4338.8	4980.6	4846.7	4227.2	4084.8	4039.6	3631.8
3509.4	4004.0	3946.7	3611.3	3663.8	3756.7	3244.0
2827.2	2811.5	2803.0	2681.2	2904.4	3093.2	2411.6
2361.5	1945.3	1806.6	1759.5	2127.5	2272.2	1496.5
2207.7	1747.5	1401.8	1342.7	1594.2	1671.5	902.4
1687.1	1696.8	1468.8	1258.9	1240.2	1135.2	661.1
825.8	839.6	887.3	810.1	694.9	585.7	208.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)