

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: P146063

Luminaire Tested: **LDRL-SLR-F05-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146063
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-F05-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9383.1 lumens
Efficiency: N/A
Efficacy: 70.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

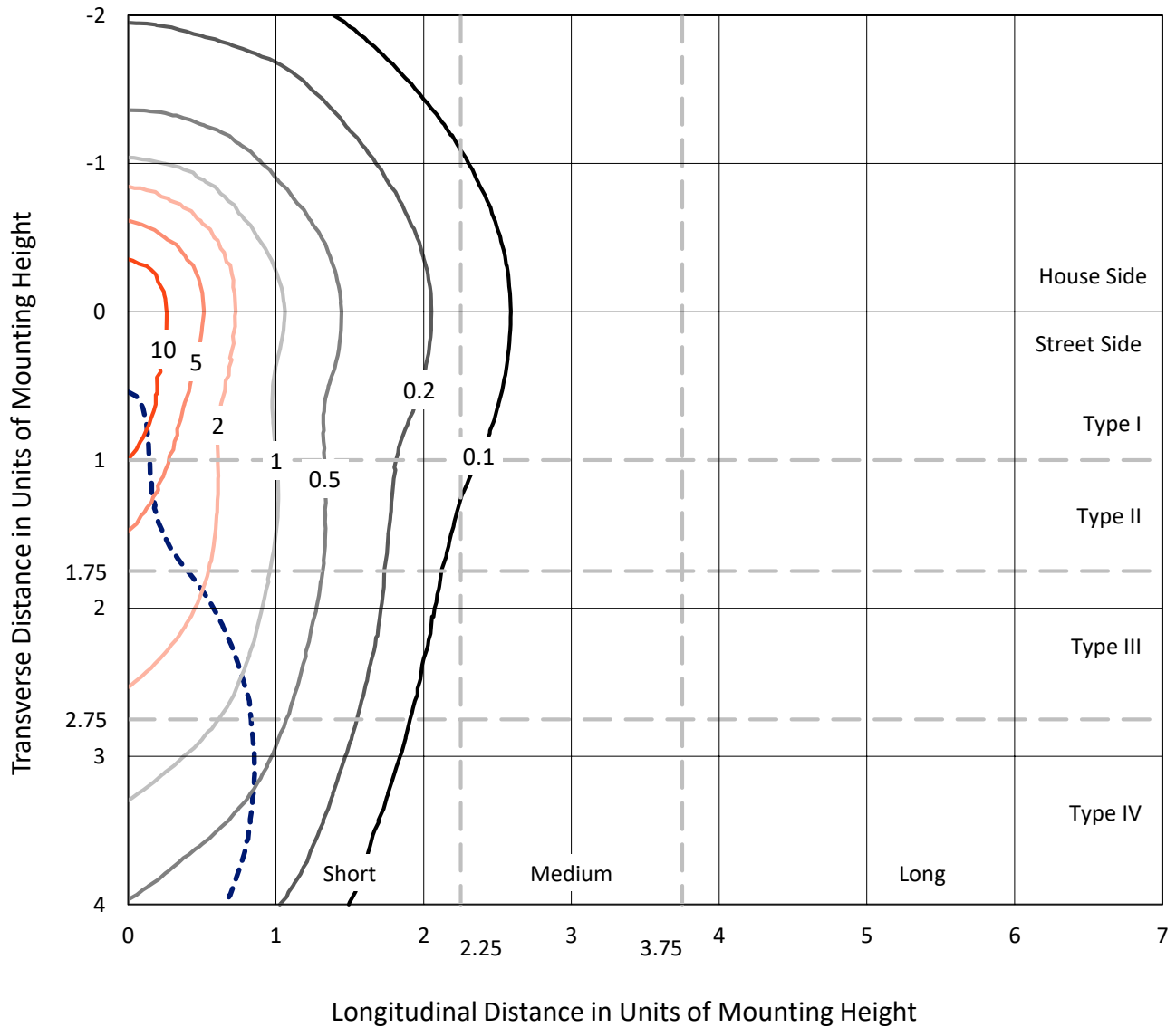
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

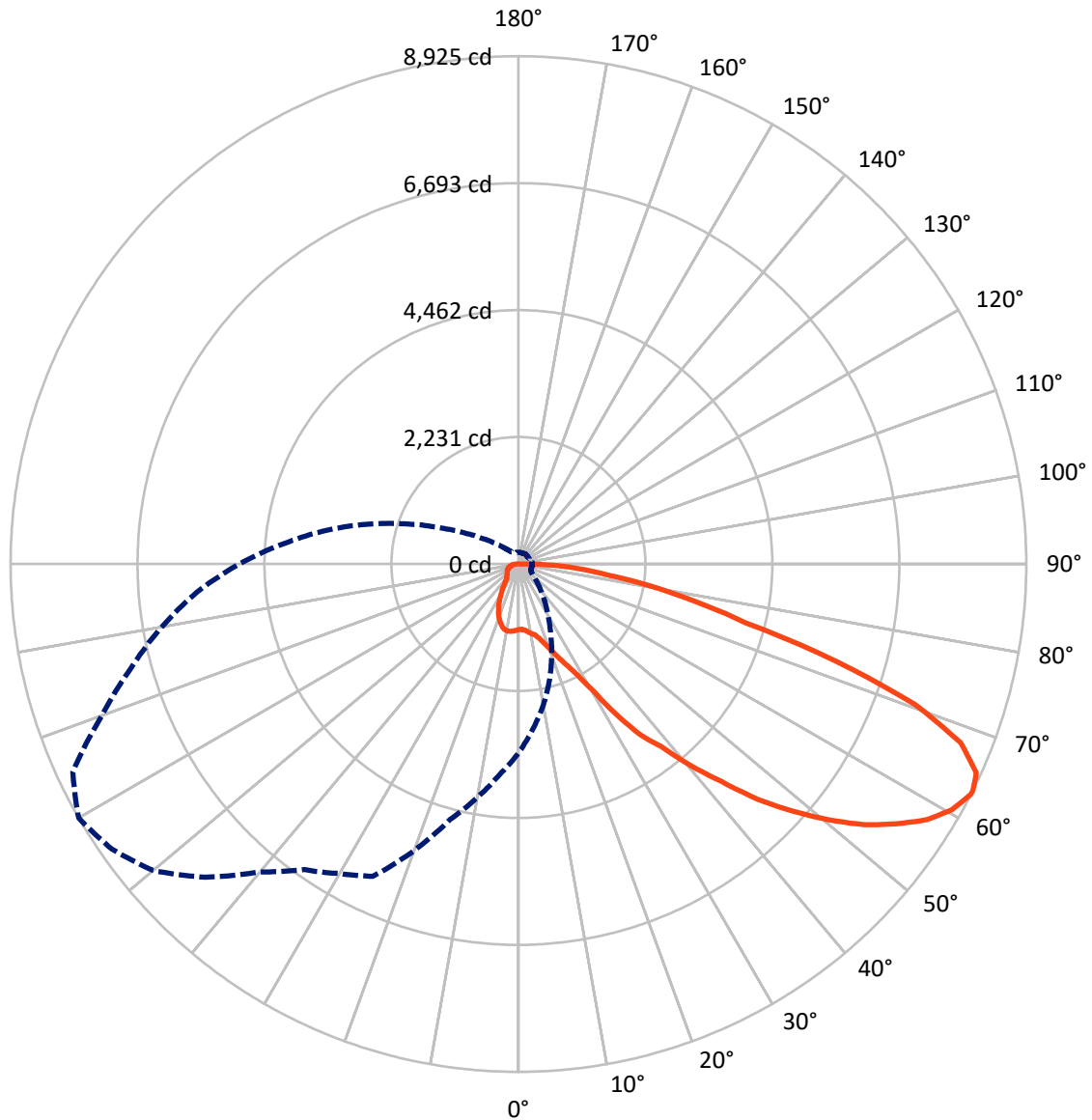
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 14.8 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	1964.1	0.0	1964.1
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	7418.9	0.0	7418.9
	% Fixture	79.1	0.0	79.1
Total	Lumens	9383.1	0.0	9383.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	113.2	1.2
10°-20°	353.2	3.8
20°-30°	624.7	6.7
30°-40°	986.2	10.5
40°-50°	1450.2	15.5
50°-60°	1910.3	20.4
60°-70°	2129.2	22.7
70°-80°	1398.9	14.9
80°-90°	417.2	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°	9383.1	100.0
0°-180°	9383.1	100.0

Coefficient of Utilization



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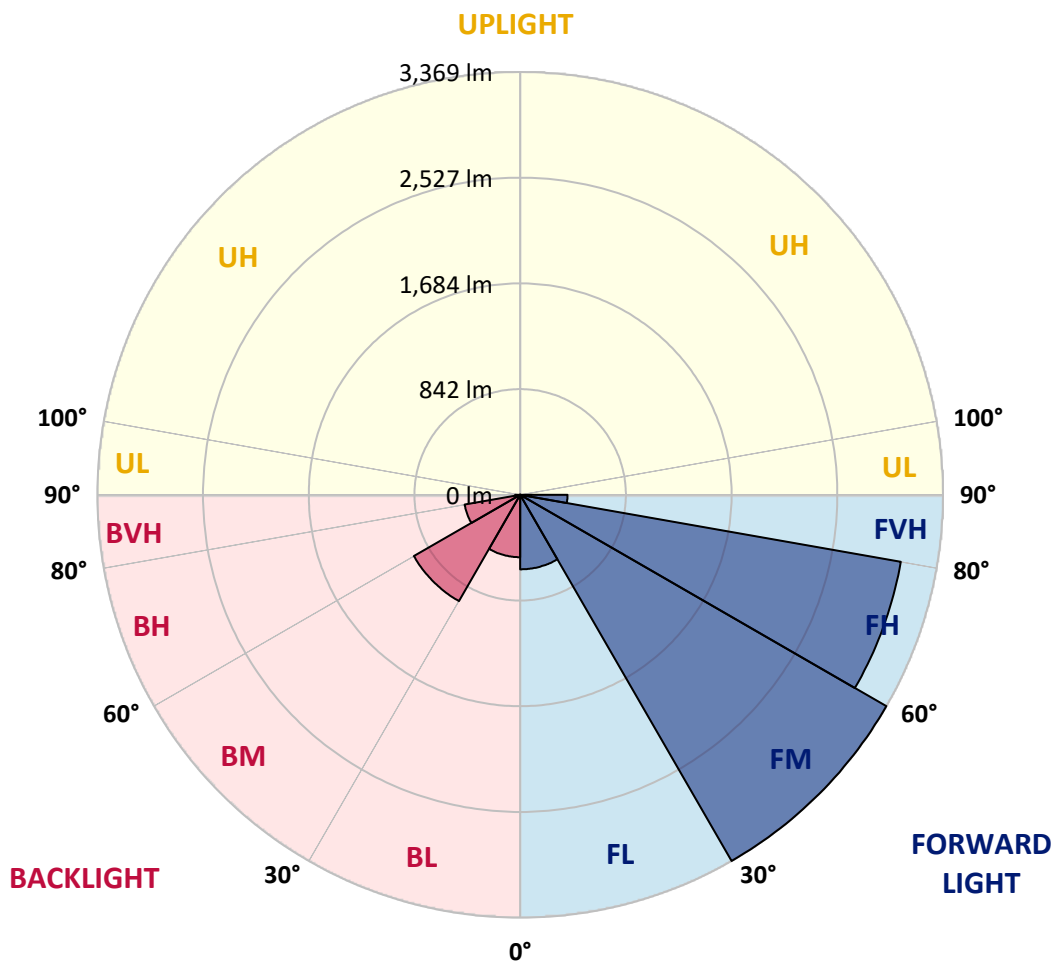
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	593.9	6.3			
FM	(30°-60°)	3368.8	35.9			
FH	(60°-80°)	3079.2	32.8			G2/5000
FVH	(80°-90°)	377.0	4.0			G3/500
BL	(0°-30°)	497.2	5.3	B1/500		
BM	(30°-60°)	977.9	10.4	B1/1000		
BH	(60°-80°)	448.9	4.8	B1/500		G1/500
BVH	(80°-90°)	40.1	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°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1151.0	1153.1	1153.1	1151.0	1153.1	1152.4	1152.4	1154.5	1155.2	1158.7	1156.6
5°	1145.4	1146.1	1146.8	1145.4	1146.1	1146.1	1147.5	1149.6	1150.3	1154.5	1152.4
7.5°	1139.2	1140.6	1137.8	1138.5	1140.6	1143.3	1143.3	1146.1	1151.0	1153.1	1152.4
10°	1142.6	1141.3	1139.2	1138.5	1139.9	1140.6	1141.9	1146.8	1151.0	1153.1	1156.6
12.5°	1169.8	1165.6	1163.5	1162.9	1163.5	1162.2	1167.0	1168.4	1169.8	1172.6	1171.2
15°	1221.4	1215.8	1212.3	1208.8	1216.5	1213.0	1213.0	1208.8	1201.9	1191.4	1178.2
17.5°	1293.1	1286.9	1284.1	1282.7	1283.4	1277.1	1264.6	1244.4	1220.0	1192.1	1166.3
20°	1396.3	1406.0	1401.8	1383.0	1376.1	1348.2	1308.5	1266.7	1224.2	1179.6	1137.1
22.5°	1574.6	1569.0	1550.2	1503.6	1461.8	1399.0	1328.0	1260.4	1197.7	1132.9	1077.2
25°	1781.6	1734.9	1681.9	1590.0	1493.8	1390.7	1288.3	1208.1	1124.5	1053.5	986.6
27.5°	2035.2	1934.1	1799.0	1649.2	1505.6	1368.4	1247.2	1141.3	1045.8	969.9	895.3
30°	2284.6	2116.0	1927.9	1729.3	1535.6	1350.3	1190.0	1067.4	957.3	859.8	784.5
32.5°	2457.4	2253.2	2019.1	1773.9	1538.4	1321.0	1127.3	981.0	857.0	758.7	668.2
35°	2599.5	2344.5	2051.2	1766.9	1493.8	1252.7	1037.4	875.1	743.4	641.7	562.3
37.5°	2697.1	2391.2	2049.1	1726.5	1414.4	1144.0	934.3	769.2	646.6	551.8	478.7
40°	2765.3	2405.8	2021.9	1657.5	1323.1	1038.8	824.2	673.7	566.4	492.6	439.6
42.5°	2798.1	2396.1	1981.5	1592.0	1232.5	953.8	741.3	609.6	522.6	466.8	427.8
45°	2812.0	2372.4	1936.2	1527.9	1158.7	880.7	698.8	590.1	521.9	473.8	431.3
47.5°	2808.5	2346.6	1895.8	1475.0	1114.8	861.2	707.2	616.6	547.6	487.7	433.4
50°	2798.8	2322.9	1870.0	1455.5	1114.1	890.4	753.9	661.2	577.6	500.3	431.3
52.5°	2798.1	2320.8	1884.0	1478.5	1154.5	956.6	824.2	712.8	606.9	514.2	432.0
55°	2814.8	2358.4	1943.2	1540.5	1252.0	1049.3	903.7	767.8	639.6	523.9	429.9
57.5°	2882.4	2452.5	2055.4	1679.1	1377.4	1162.2	980.3	808.9	652.1	521.2	420.1
60°	3030.8	2617.6	2228.2	1874.9	1538.4	1265.3	1025.6	822.8	646.6	504.4	399.2
62.5°	3262.1	2856.6	2465.1	2067.2	1681.2	1327.3	1036.0	811.7	624.3	476.6	373.5
63°	3321.3	2911.7	2513.1	2106.9	1705.6	1333.6	1035.3	807.5	618.0	469.6	367.2
65°	3568.7	3147.9	2706.1	2237.9	1771.1	1346.1	1019.3	781.0	590.1	436.9	338.6
67.5°	3940.7	3408.4	2897.7	2359.8	1807.3	1323.8	969.2	715.5	518.4	379.7	296.1
70°	4188.8	3581.2	3012.0	2399.6	1764.8	1222.1	854.2	599.9	423.6	312.8	252.9
72.5°	4195.0	3426.5	2857.3	2193.3	1523.8	1008.2	668.9	453.6	329.6	254.3	218.1
75°	3747.0	2895.6	2335.5	1801.1	1172.6	712.8	470.3	330.9	252.9	209.7	188.8
77.5°	2785.5	2112.5	1685.4	1211.6	761.5	461.9	327.5	245.3	200.7	173.5	158.2
80°	1728.6	1320.3	1022.8	724.6	456.4	307.3	239.7	195.1	168.6	144.9	132.4
82.5°	1042.3	739.2	577.6	437.5	291.9	221.6	184.6	164.4	142.8	121.9	112.2
85°	763.6	528.8	387.4	270.3	180.5	146.3	129.6	125.4	110.8	94.1	88.5
87.5°	240.4	252.2	262.0	159.6	87.1	66.2	56.4	66.2	63.4	44.6	48.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1160.1	1162.9	1160.8	1160.8	1159.4	1158.7	1163.5	1162.2	1163.5	1162.9	1164.2
5°	1155.9	1158.0	1156.6	1158.0	1156.6	1156.6	1162.9	1162.9	1165.6	1167.0	1170.5
7.5°	1157.3	1158.0	1157.3	1159.4	1158.0	1156.6	1160.1	1162.2	1167.0	1171.2	1174.7
10°	1162.2	1164.2	1163.5	1163.5	1159.4	1156.6	1158.7	1160.1	1164.9	1167.0	1171.2
12.5°	1174.0	1171.2	1165.6	1162.2	1152.4	1146.8	1144.0	1142.6	1146.1	1148.9	1151.0
15°	1171.2	1155.9	1143.3	1132.9	1118.3	1109.2	1102.2	1101.5	1102.2	1102.9	1105.0
17.5°	1142.6	1121.7	1096.7	1083.4	1066.7	1056.9	1052.1	1048.6	1047.9	1049.3	1052.8
20°	1101.5	1070.9	1043.0	1020.0	1001.9	986.6	990.1	982.4	985.9	988.0	994.2
22.5°	1038.8	996.3	964.3	936.4	914.8	898.8	898.8	891.8	893.2	899.5	907.8
25°	937.1	897.4	851.4	831.9	807.5	796.4	794.3	792.9	798.5	806.1	811.0
27.5°	845.1	790.8	745.5	719.7	693.9	696.7	682.8	691.2	697.4	703.7	709.3
30°	721.1	676.5	635.4	609.6	579.0	579.7	581.8	583.2	588.7	597.1	608.3
32.5°	602.0	553.9	515.6	487.7	469.6	464.0	456.4	468.9	475.9	484.2	495.4
35°	503.7	453.6	421.5	397.1	386.7	379.0	376.9	375.5	381.8	386.0	395.0
37.5°	433.4	399.2	375.5	358.1	348.4	340.0	337.9	336.5	335.8	334.4	340.0
40°	404.8	377.6	357.4	341.4	332.3	327.5	325.4	322.6	319.8	316.3	315.6
42.5°	396.4	367.2	343.5	327.5	320.5	319.8	319.8	318.4	315.6	310.7	307.3
45°	393.0	357.4	330.3	317.7	312.8	313.5	313.5	313.5	311.4	306.6	301.0
47.5°	386.7	345.6	317.7	307.3	305.2	306.6	308.0	308.0	306.6	302.4	296.1
50°	374.8	327.5	298.2	288.4	287.8	288.4	288.4	289.8	288.4	285.0	279.4
52.5°	365.8	313.5	283.6	275.9	275.9	275.2	274.5	274.5	273.8	271.0	266.8
55°	357.4	304.5	277.3	271.0	272.4	272.4	271.0	270.3	267.5	264.1	259.9
57.5°	345.6	294.7	271.0	266.8	268.2	267.5	266.8	266.2	263.4	259.2	253.6
60°	324.7	277.3	258.5	255.7	257.8	258.5	261.3	262.0	260.6	255.7	248.0
62.5°	301.7	255.7	241.8	239.7	241.8	243.9	245.9	244.6	244.6	239.7	232.7
63°	294.0	252.2	236.9	236.9	239.0	241.1	242.5	241.1	241.8	236.2	229.2
65°	276.6	239.7	227.8	228.5	230.6	232.0	232.7	232.7	232.0	227.8	221.6
67.5°	247.3	221.6	214.6	218.1	220.9	221.6	221.6	223.0	221.6	218.8	213.2
70°	220.9	204.1	199.3	203.4	204.8	205.5	205.5	205.5	204.1	201.4	196.5
72.5°	200.7	192.3	191.6	190.9	191.6	189.5	189.5	188.1	184.6	182.5	178.4
75°	178.4	174.2	174.9	174.2	172.8	172.1	168.6	167.2	163.0	160.2	154.7
77.5°	153.3	154.0	153.3	154.0	155.4	156.1	151.2	147.7	144.2	141.4	138.7
80°	127.5	128.9	127.5	128.9	129.6	129.6	124.7	119.1	116.4	118.4	119.1
82.5°	113.6	113.6	108.0	109.4	108.0	105.9	102.4	100.3	98.2	96.8	100.3
85°	89.9	90.6	92.0	90.6	87.8	85.7	82.2	79.4	77.3	79.4	84.3
87.5°	53.6	57.8	55.7	55.7	55.0	55.0	52.3	50.9	48.8	57.1	61.3
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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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1163.5	1165.6	1166.3	1165.6	1166.3	1167.7	1162.2	1167.7	1168.4	1164.2	1165.6
5°	1173.3	1176.8	1181.7	1181.7	1185.1	1187.2	1184.5	1192.1	1193.5	1192.8	1196.3
7.5°	1180.3	1185.1	1191.4	1194.9	1201.2	1204.0	1206.0	1213.0	1214.4	1217.2	1220.0
10°	1179.6	1186.5	1192.1	1201.9	1209.5	1215.1	1219.3	1227.0	1229.7	1233.9	1236.0
12.5°	1159.4	1167.0	1177.5	1191.4	1205.4	1214.4	1225.6	1236.7	1240.9	1246.5	1249.9
15°	1114.1	1120.4	1135.0	1153.1	1171.9	1194.9	1210.9	1228.3	1236.0	1241.6	1246.5
17.5°	1054.9	1060.4	1073.7	1089.7	1114.8	1137.1	1161.5	1187.9	1201.2	1207.4	1209.5
20°	999.8	1008.2	1011.7	1030.5	1038.8	1061.1	1082.0	1111.3	1128.0	1139.2	1146.1
22.5°	913.4	917.6	935.7	943.4	949.7	963.6	989.4	1015.1	1037.4	1055.6	1061.1
25°	818.0	829.1	838.9	845.1	859.8	860.5	881.4	899.5	927.4	944.8	958.7
27.5°	712.8	729.5	735.1	739.2	750.4	763.6	771.3	789.4	805.4	825.6	850.7
30°	606.9	622.9	634.0	640.3	650.8	663.3	668.9	680.7	701.6	723.9	743.4
32.5°	507.9	524.6	530.2	550.4	553.2	565.1	569.2	588.0	599.9	618.7	641.7
35°	411.1	428.5	445.2	456.4	468.9	468.2	479.4	496.8	507.2	526.7	542.1
37.5°	344.9	355.3	367.2	379.7	393.7	404.1	414.6	422.2	430.6	443.8	457.8
40°	315.6	318.4	323.3	330.9	340.7	348.4	356.0	362.3	368.6	379.0	388.1
42.5°	303.8	301.7	301.7	300.3	303.8	308.0	314.2	316.3	326.1	332.3	335.8
45°	295.4	290.5	287.1	282.9	281.5	282.9	286.4	291.2	297.5	299.6	299.6
47.5°	290.5	282.9	277.3	271.0	267.5	267.5	269.6	273.1	276.6	277.3	276.6
50°	273.8	266.2	259.2	253.6	250.8	250.8	251.5	256.4	257.1	255.7	256.4
52.5°	261.3	253.6	246.6	241.8	238.3	239.0	241.1	243.2	245.3	243.9	242.5
55°	253.6	244.6	238.3	232.7	228.5	229.9	232.0	234.8	238.3	236.2	234.1
57.5°	246.6	239.0	231.3	225.7	220.9	222.3	224.3	228.5	232.7	228.5	225.7
60°	240.4	232.7	225.0	219.5	213.9	215.3	218.1	222.3	225.7	220.2	216.7
62.5°	225.0	218.1	212.5	209.7	206.2	208.3	210.4	215.3	213.9	208.3	204.1
63°	222.3	215.3	210.4	207.6	204.8	207.6	208.3	213.2	211.1	205.5	202.1
65°	213.9	208.3	203.4	200.7	197.9	199.3	199.3	201.4	198.6	194.4	191.6
67.5°	206.2	200.0	195.1	189.5	186.7	185.3	184.6	183.9	181.8	179.8	179.1
70°	189.5	185.3	181.2	176.3	172.1	169.3	167.9	166.5	165.1	164.4	163.7
72.5°	171.4	167.9	163.7	160.9	157.5	155.4	151.9	151.2	149.8	148.4	147.7
75°	151.9	147.7	146.3	143.5	141.4	140.0	137.3	136.6	135.2	133.1	132.4
77.5°	134.5	133.1	131.0	130.3	126.8	124.7	123.3	122.6	121.2	119.8	118.4
80°	119.8	119.1	117.7	117.1	115.0	112.2	110.8	111.5	109.4	108.7	106.6
82.5°	108.0	108.7	108.7	106.6	104.5	101.0	99.6	101.7	100.3	97.5	94.8
85°	92.0	91.3	92.0	91.3	87.1	83.6	82.2	83.6	82.9	78.7	78.0
87.5°	65.5	64.8	63.4	67.6	62.0	50.2	51.6	58.5	56.4	54.3	53.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1168.4	1166.3	1167.7	1168.4	1166.3	1171.2	1166.3	1167.0	1168.4	1164.2	1163.5
5°	1199.1	1199.1	1204.7	1205.4	1204.7	1210.9	1210.2	1210.9	1209.5	1208.8	1206.0
7.5°	1224.2	1227.0	1231.1	1237.4	1239.5	1244.4	1245.8	1246.5	1249.2	1252.0	1250.6
10°	1242.3	1249.9	1253.4	1259.7	1266.0	1269.5	1272.9	1278.5	1280.6	1282.7	1279.9
12.5°	1254.8	1263.9	1269.5	1277.1	1284.8	1290.4	1296.6	1303.6	1310.6	1312.6	1309.2
15°	1248.6	1259.0	1267.4	1275.7	1287.6	1298.0	1309.9	1322.4	1331.5	1334.9	1330.8
17.5°	1209.5	1220.0	1232.5	1245.1	1257.6	1277.1	1293.8	1314.7	1329.4	1339.8	1341.2
20°	1155.9	1162.2	1180.3	1192.8	1213.0	1236.0	1261.1	1285.5	1302.2	1321.0	1332.2
22.5°	1076.5	1089.0	1109.2	1130.8	1151.0	1181.0	1207.4	1239.5	1268.1	1293.8	1318.2
25°	979.6	997.0	1020.7	1050.7	1077.2	1109.2	1147.5	1183.1	1231.1	1271.5	1323.8
27.5°	875.1	907.1	939.9	971.2	1000.5	1036.7	1076.5	1116.2	1171.2	1236.0	1304.3
30°	776.2	802.6	843.7	880.0	914.1	958.7	999.8	1043.7	1096.0	1172.6	1249.9
32.5°	673.0	694.6	726.7	771.3	811.0	863.3	899.5	951.7	1012.4	1093.2	1181.0
35°	566.4	596.4	622.2	652.8	682.8	735.1	789.4	847.2	916.9	1003.3	1099.4
37.5°	472.4	491.2	503.7	535.1	561.6	606.2	669.6	739.2	815.9	903.7	1006.8
40°	394.4	406.2	420.1	441.0	463.3	503.7	562.3	640.3	720.4	808.2	911.3
42.5°	340.7	348.4	349.8	365.8	386.7	426.4	473.1	544.8	633.3	725.3	828.4
45°	303.8	303.8	303.1	310.0	326.8	360.9	403.4	467.5	551.8	648.0	755.3
47.5°	278.0	280.1	279.4	282.2	293.3	318.4	356.7	411.1	487.7	581.8	689.8
50°	258.5	261.3	262.0	262.7	266.8	287.8	320.5	364.4	432.7	522.6	631.2
52.5°	243.2	243.9	243.9	243.2	244.6	256.4	283.6	324.0	387.4	468.2	572.7
55°	234.8	235.5	235.5	235.5	235.5	243.2	262.7	295.4	346.3	422.2	517.0
57.5°	225.0	225.0	226.4	226.4	226.4	229.2	243.2	270.3	309.4	370.0	454.3
60°	216.7	218.8	221.6	222.3	221.6	221.6	228.5	246.6	272.4	316.3	387.4
62.5°	204.1	206.9	210.4	211.8	212.5	211.1	214.6	222.3	237.6	260.6	308.7
63°	202.1	204.8	207.6	209.0	209.7	208.3	211.1	217.4	229.9	248.7	291.9
65°	193.0	196.5	197.2	197.9	197.2	196.5	195.8	195.8	199.3	206.2	229.2
67.5°	180.5	182.5	182.5	183.9	180.5	179.1	177.7	176.3	174.2	174.9	183.2
70°	165.8	167.2	166.5	165.8	164.4	162.3	160.9	158.9	154.7	153.3	157.5
72.5°	149.1	150.5	150.5	150.5	147.7	146.3	144.9	143.5	142.1	143.5	144.9
75°	133.8	133.8	135.2	134.5	132.4	131.0	130.3	129.6	129.6	129.6	128.9
77.5°	119.1	118.4	118.4	116.4	115.0	114.3	115.7	116.4	115.7	114.3	113.6
80°	106.6	103.1	99.6	96.8	96.1	97.5	98.9	103.1	101.0	101.0	99.6
82.5°	90.6	82.9	78.0	78.7	76.6	77.3	78.7	83.6	82.2	82.9	85.7
85°	72.5	65.5	57.8	59.2	59.2	57.8	61.3	62.7	64.1	67.6	64.8
87.5°	50.9	44.6	36.9	32.0	33.4	34.8	36.2	34.8	30.7	32.0	31.4
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
2.5°	1162.2	1162.9	1162.9	1158.0	1156.6	1158.0	1157.3	1157.3	1153.1	1153.8	1152.4
5°	1204.7	1206.0	1201.9	1198.4	1193.5	1192.8	1192.1	1189.3	1186.5	1181.0	1178.2
7.5°	1249.9	1243.7	1242.3	1236.0	1233.9	1228.3	1224.2	1220.0	1216.5	1213.7	1211.6
10°	1278.5	1273.6	1272.2	1261.1	1257.6	1250.6	1246.5	1241.6	1237.4	1233.2	1232.5
12.5°	1304.3	1295.9	1291.1	1275.7	1268.8	1261.1	1257.6	1253.4	1252.0	1251.3	1254.1
15°	1324.5	1312.6	1303.6	1289.7	1284.1	1279.9	1280.6	1278.5	1286.9	1291.7	1300.8
17.5°	1337.7	1332.9	1330.8	1320.3	1323.8	1323.8	1333.6	1338.4	1353.8	1366.3	1378.8
20°	1344.7	1353.8	1371.2	1374.7	1383.0	1392.1	1406.7	1415.1	1431.1	1449.2	1466.6
22.5°	1351.0	1389.3	1424.8	1451.3	1470.1	1491.0	1501.5	1518.9	1530.0	1543.3	1569.7
25°	1385.8	1449.9	1512.6	1546.8	1591.3	1621.3	1645.0	1662.4	1681.9	1693.1	1723.0
27.5°	1376.1	1457.6	1541.2	1603.9	1673.6	1730.0	1780.2	1813.6	1838.7	1879.1	1904.2
30°	1331.5	1426.2	1527.2	1616.4	1714.0	1805.9	1893.0	1971.1	2038.0	2092.3	2129.2
32.5°	1268.1	1376.7	1495.2	1605.3	1730.0	1852.6	1978.0	2097.2	2210.7	2300.6	2357.1
35°	1197.0	1314.0	1445.0	1575.3	1725.1	1885.4	2054.7	2214.9	2379.4	2522.9	2635.8
37.5°	1110.6	1237.4	1380.9	1532.1	1704.2	1896.5	2109.7	2327.8	2537.5	2754.9	2913.7
40°	1020.0	1144.0	1293.1	1465.9	1664.5	1890.9	2152.2	2435.1	2738.9	3019.0	3260.7
42.5°	942.7	1063.9	1220.0	1390.7	1604.6	1870.0	2180.8	2531.2	2905.4	3268.4	3589.6
45°	866.7	996.3	1153.8	1334.2	1567.7	1861.7	2217.7	2614.8	3041.9	3472.5	3882.2
47.5°	806.8	935.0	1093.9	1287.6	1537.7	1856.8	2252.5	2692.9	3153.4	3624.4	4110.0
50°	749.7	872.3	1027.0	1231.1	1506.3	1849.1	2273.4	2754.9	3240.5	3743.6	4271.7
52.5°	691.2	818.7	969.2	1167.0	1465.2	1833.8	2279.7	2803.7	3330.4	3857.8	4422.9
55°	631.9	759.4	909.9	1114.8	1409.5	1803.8	2274.8	2839.2	3424.5	3978.4	4560.8
57.5°	559.5	684.9	842.4	1048.6	1337.7	1743.9	2251.2	2854.5	3483.0	4091.2	4699.5
60°	478.0	596.4	745.5	955.9	1249.9	1657.5	2198.2	2832.9	3509.5	4165.8	4846.5
62.5°	375.5	478.7	615.9	824.9	1122.4	1532.8	2082.5	2737.5	3445.4	4147.0	4909.9
63°	352.5	452.2	593.6	790.1	1084.8	1489.6	2048.4	2704.7	3416.8	4129.6	4902.2
65°	268.9	342.8	459.8	635.4	916.9	1290.4	1868.6	2519.4	3237.0	3956.1	4781.7
67.5°	198.6	236.9	308.7	426.4	645.2	1004.0	1531.4	2175.9	2855.2	3531.1	4371.3
70°	164.4	179.1	212.5	273.1	399.2	666.1	1082.0	1656.1	2295.0	2876.8	3635.6
72.5°	147.0	157.5	172.8	200.0	252.2	390.9	703.7	1075.1	1598.3	2101.4	2742.4
75°	131.7	138.7	151.2	167.2	190.9	244.6	372.1	637.5	976.8	1415.8	1881.2
77.5°	115.7	122.6	135.2	147.7	163.0	186.0	230.6	363.0	584.6	826.3	1154.5
80°	100.3	103.8	114.3	132.4	143.5	162.3	177.0	227.1	318.4	432.7	615.2
82.5°	82.9	83.6	90.6	104.5	118.4	125.4	129.6	142.8	183.2	228.5	301.7
85°	59.2	56.4	60.6	66.2	77.3	71.1	75.9	80.1	97.5	117.7	216.0
87.5°	26.5	20.9	24.4	27.2	24.4	16.7	24.4	20.2	25.1	49.5	55.7
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°	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	0°
2.5°	1153.8	1149.6	1149.6	1148.9	1149.6	1148.2	1145.4	1145.4	1147.5	1146.8	1146.8	2.5°
5°	1178.2	1172.6	1171.2	1170.5	1170.5	1167.0	1162.9	1160.8	1160.1	1157.3	1155.2	5°
7.5°	1210.2	1206.7	1208.8	1204.7	1203.3	1202.6	1197.0	1192.8	1186.5	1183.8	1173.3	7.5°
10°	1236.7	1234.6	1240.2	1239.5	1240.2	1240.2	1232.5	1228.3	1219.3	1214.4	1201.2	10°
12.5°	1259.7	1261.1	1271.5	1271.5	1273.6	1276.4	1272.2	1263.2	1259.7	1254.8	1240.9	12.5°
15°	1318.2	1323.8	1331.5	1344.0	1347.5	1348.2	1351.7	1344.0	1334.9	1322.4	1305.7	15°
17.5°	1397.7	1408.8	1434.6	1452.7	1456.2	1459.7	1457.6	1456.2	1439.5	1429.0	1411.6	17.5°
20°	1497.3	1524.5	1560.7	1585.8	1596.9	1598.3	1612.2	1602.5	1587.2	1566.3	1541.2	20°
22.5°	1608.8	1654.1	1700.0	1737.0	1758.6	1768.3	1782.9	1769.0	1748.8	1736.3	1702.8	22.5°
25°	1761.3	1810.8	1863.8	1893.0	1948.1	1964.1	1972.5	1968.3	1947.4	1956.4	1925.8	25°
27.5°	1970.4	2012.9	2087.4	2124.3	2175.9	2205.9	2199.6	2234.4	2240.7	2262.3	2265.8	27.5°
30°	2198.2	2268.6	2368.9	2443.5	2522.2	2573.0	2613.5	2644.1	2679.6	2739.6	2775.8	30°
32.5°	2444.1	2545.9	2674.1	2832.2	2999.4	3136.0	3290.0	3316.5	3395.9	3372.9	3357.6	32.5°
35°	2718.0	2846.2	3010.6	3218.2	3461.4	3687.1	3835.5	3910.1	3941.4	3958.9	3852.9	35°
37.5°	3084.4	3257.9	3441.2	3667.6	3853.6	4064.8	4235.5	4420.8	4505.8	4465.4	4262.6	37.5°
40°	3490.6	3653.0	3901.0	4086.4	4305.8	4653.5	4884.8	5107.8	5177.4	5043.0	4725.3	40°
42.5°	3898.2	4121.2	4390.1	4653.5	4905.7	5220.6	5527.2	5747.4	5824.0	5594.1	5217.2	42.5°
45°	4261.2	4546.9	4863.2	5133.5	5486.1	5897.9	6273.4	6450.4	6436.4	6067.2	5642.9	45°
47.5°	4577.6	4948.2	5304.9	5669.3	6024.7	6489.4	6861.5	7064.9	6920.7	6532.6	6051.8	47.5°
50°	4838.8	5286.8	5717.4	6136.1	6572.3	7066.3	7425.1	7613.2	7393.8	6902.6	6365.4	50°
52.5°	5037.4	5592.7	6088.8	6557.0	7078.1	7611.8	7930.9	8044.5	7702.4	7188.9	6600.2	52.5°
55°	5224.8	5852.6	6401.6	6933.2	7581.9	8060.5	8359.4	8338.5	7896.8	7313.6	6747.2	55°
57.5°	5366.3	6074.1	6658.7	7264.2	7963.0	8474.4	8647.2	8509.2	7977.6	7350.6	6789.7	57.5°
60°	5544.6	6246.9	6887.2	7563.1	8325.3	8758.0	8781.0	8533.6	7954.6	7280.9	6729.8	60°
62.5°	5658.9	6354.9	7032.8	7767.9	8601.2	8917.5	8753.1	8428.4	7822.3	7108.8	6592.5	62.5°
63°	5670.0	6365.4	7044.7	7788.1	8640.2	8924.5	8727.3	8381.0	7783.2	7061.4	6556.3	63°
65°	5619.9	6335.4	6990.3	7751.9	8650.0	8842.3	8538.5	8186.6	7567.9	6819.6	6343.1	65°
67.5°	5269.4	6013.5	6638.5	7352.7	8273.7	8380.3	8075.9	7693.4	7112.3	6298.5	5877.0	67.5°
70°	4641.7	5348.8	5792.0	6455.3	7265.6	7393.1	7120.6	6824.5	6308.2	5628.2	5278.5	70°
72.5°	3739.4	4434.0	4700.2	5208.1	5851.9	5824.0	5632.4	5595.5	5323.8	4753.1	4542.7	72.5°
75°	2795.3	3456.5	3568.7	3775.6	4135.1	4126.1	4170.7	4329.5	4465.4	4128.2	3858.5	75°
77.5°	1843.6	2501.3	2571.0	2812.0	2911.7	3184.8	3505.3	3904.5	4102.4	3964.4	3633.5	77.5°
80°	1020.0	1711.2	1697.2	1791.3	1967.6	2364.7	2850.3	3443.3	3839.0	3740.1	3377.8	80°
82.5°	530.2	1081.3	1065.3	1082.0	1245.8	1579.5	1948.8	2433.7	2842.7	2851.7	2729.8	82.5°
85°	394.4	776.2	822.1	859.8	968.5	1084.8	1152.4	1307.8	1532.1	1741.1	1815.7	85°
87.5°	144.9	466.1	580.4	623.6	626.4	611.7	498.2	548.3	498.9	590.1	824.2	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°
1152.4	1152.4	1152.4	1152.4	1152.4	1152.4	1152.4
1148.2	1148.2	1147.5	1148.9	1149.6	1151.7	1151.0
1153.1	1151.0	1148.9	1147.5	1146.1	1146.8	1145.4
1165.6	1158.7	1153.1	1148.2	1144.0	1143.3	1139.2
1193.5	1181.0	1170.5	1162.9	1154.5	1150.3	1142.6
1229.0	1215.1	1201.9	1190.7	1181.0	1175.4	1169.8
1291.1	1270.8	1254.8	1243.0	1233.2	1227.0	1221.4
1383.0	1357.9	1333.6	1310.6	1307.8	1293.1	1293.1
1509.8	1475.7	1444.3	1424.8	1415.8	1396.3	1396.3
1685.4	1652.0	1605.3	1581.6	1583.7	1567.0	1574.6
1912.5	1884.7	1836.6	1826.8	1826.8	1808.7	1781.6
2253.2	2243.5	2190.5	2203.8	2175.9	2108.3	2035.2
2759.1	2759.1	2656.7	2582.8	2518.7	2413.5	2284.6
3265.6	3199.4	3042.6	2917.2	2784.2	2623.2	2457.4
3693.4	3517.1	3358.3	3205.0	3005.0	2832.2	2599.5
4054.3	3887.1	3705.2	3471.8	3237.0	2996.0	2697.1
4501.6	4298.2	4025.0	3731.7	3443.3	3111.6	2765.3
4910.6	4655.6	4310.7	3939.3	3572.2	3202.2	2798.1
5295.2	4966.3	4540.6	4094.7	3676.7	3257.9	2812.0
5657.5	5216.5	4721.1	4205.5	3748.4	3287.9	2808.5
5896.5	5399.7	4834.6	4272.4	3791.6	3298.3	2798.8
6046.3	5511.9	4901.5	4309.3	3813.2	3300.4	2798.1
6130.6	5575.3	4937.8	4335.1	3836.9	3313.0	2814.8
6196.1	5625.4	4978.2	4379.0	3893.4	3371.5	2882.4
6258.1	5757.1	5083.4	4459.8	3991.6	3480.9	3030.8
6283.9	6007.3	5297.3	4608.9	4128.9	3656.5	3262.1
6281.8	6054.6	5359.3	4650.0	4165.1	3703.1	3321.3
6205.8	6205.1	5641.5	4846.5	4333.7	3919.1	3568.7
5980.8	6280.4	5953.6	5105.7	4595.7	4275.2	3940.7
5624.7	6189.1	5996.1	5174.0	4781.7	4601.9	4188.8
5011.6	5752.9	5598.3	4882.7	4718.3	4666.0	4195.0
4053.6	4624.9	4558.7	4171.4	4232.0	4339.3	3747.0
3265.6	3247.5	3237.7	3097.0	3354.8	3572.9	2785.5
2727.7	2247.0	2086.7	2032.4	2457.4	2624.6	1728.6
2550.1	2018.4	1619.2	1550.9	1841.5	1930.7	1042.3
1948.8	1959.9	1696.6	1454.1	1432.5	1311.3	763.6
953.8	969.9	1024.9	935.7	802.6	676.5	240.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)