

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: P146066

Luminaire Tested: **LDRL-SLR-F05-E-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146066
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-7050
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11407.7 lumens
Efficiency: N/A
Efficacy: 85.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

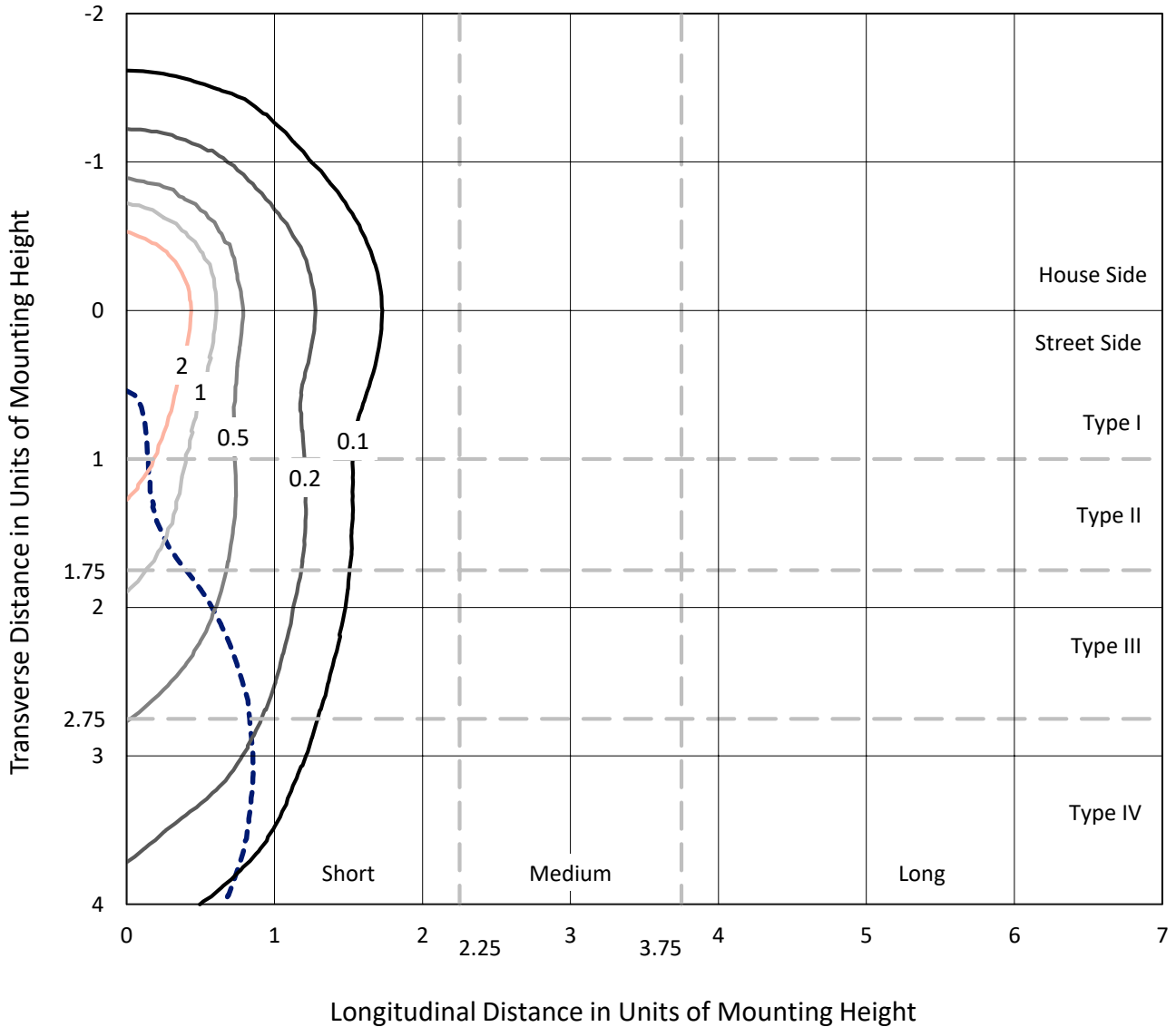
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

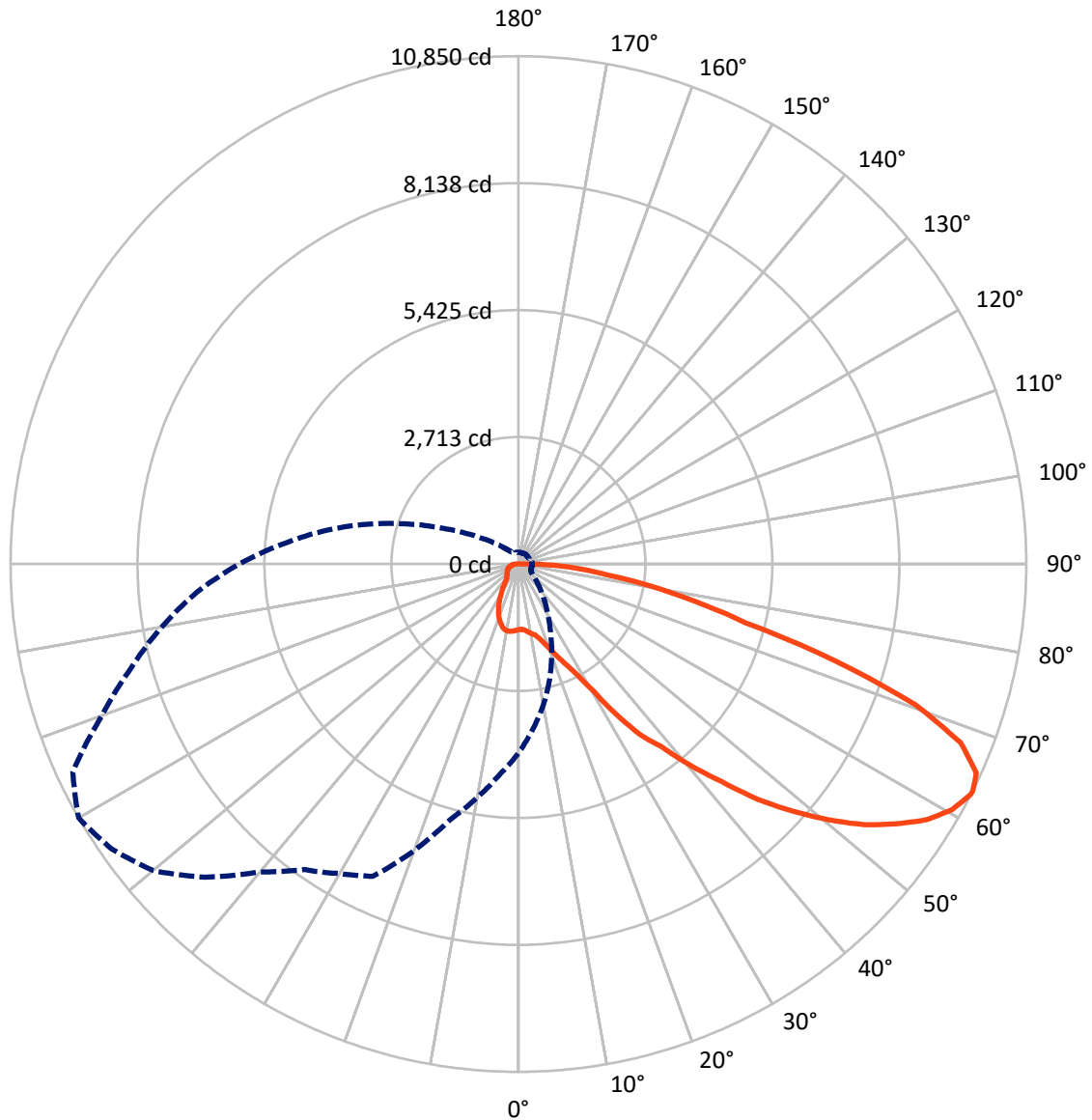
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.5 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	2388.0	0.0	2388.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9019.8	0.0	9019.8
	% Fixture	79.1	0.0	79.1
Total	Lumens	11407.7	0.0	11407.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	137.6	1.2
10°-20°	429.5	3.8
20°-30°	759.5	6.7
30°-40°	1199.0	10.5
40°-50°	1763.1	15.5
50°-60°	2322.5	20.4
60°-70°	2588.6	22.7
70°-80°	1700.8	14.9
80°-90°	507.2	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°	11407.7	100.0
0°-180°	11407.7	100.0



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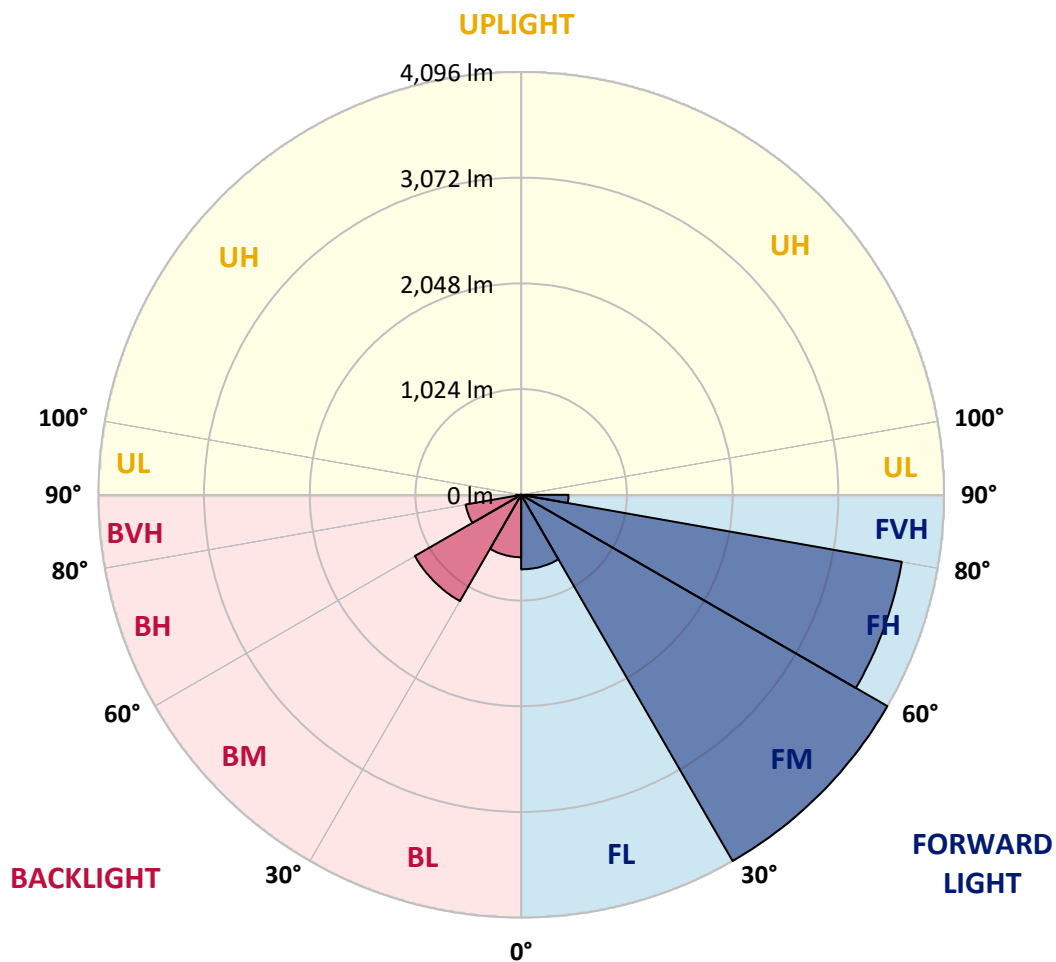
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	722.0	6.3			
FM	(30°-60°)	4095.7	35.9			
FH	(60°-80°)	3743.7	32.8			G2/5000
FVH	(80°-90°)	458.4	4.0			G3/500
BL	(0°-30°)	604.5	5.3	B2/1000		
BM	(30°-60°)	1188.9	10.4	B2/2500		
BH	(60°-80°)	545.8	4.8	B2/1000		G2/1000
BVH	(80°-90°)	48.8	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1
2.5°	1399.4	1401.9	1401.9	1399.4	1401.9	1401.1	1401.1	1403.6	1404.5	1408.7	1406.1
5°	1392.6	1393.4	1394.3	1392.6	1393.4	1393.4	1395.1	1397.7	1398.5	1403.6	1401.1
7.5°	1385.0	1386.7	1383.3	1384.1	1386.7	1390.1	1390.1	1393.4	1399.4	1401.9	1401.1
10°	1389.2	1387.5	1385.0	1384.1	1385.8	1386.7	1388.4	1394.3	1399.4	1401.9	1406.1
12.5°	1422.2	1417.2	1414.6	1413.8	1414.6	1412.9	1418.9	1420.5	1422.2	1425.6	1423.9
15°	1484.9	1478.1	1473.9	1469.7	1479.0	1474.8	1474.8	1469.7	1461.2	1448.5	1432.4
17.5°	1572.2	1564.5	1561.2	1559.5	1560.3	1552.7	1537.4	1512.9	1483.2	1449.3	1418.0
20°	1697.5	1709.4	1704.3	1681.4	1673.0	1639.1	1590.8	1540.0	1488.3	1434.1	1382.4
22.5°	1914.4	1907.6	1884.7	1828.0	1777.2	1700.9	1614.5	1532.4	1456.1	1377.3	1309.6
25°	2166.0	2109.2	2044.8	1933.0	1816.1	1690.8	1566.2	1468.8	1367.2	1280.8	1199.5
27.5°	2474.3	2351.5	2187.1	2005.0	1830.5	1663.7	1516.3	1387.5	1271.5	1179.1	1088.5
30°	2777.6	2572.6	2343.9	2102.4	1867.0	1641.6	1446.8	1297.7	1163.9	1045.3	953.8
32.5°	2987.6	2739.4	2454.8	2156.7	1870.3	1606.1	1370.6	1192.7	1041.9	922.5	812.3
35°	3160.4	2850.4	2493.8	2148.2	1816.1	1523.0	1261.3	1063.9	903.8	780.2	683.6
37.5°	3279.0	2907.2	2491.2	2099.1	1719.6	1390.9	1135.9	935.2	786.1	670.9	581.9
40°	3362.0	2925.0	2458.2	2015.2	1608.6	1263.0	1002.1	819.1	688.7	598.9	534.5
42.5°	3401.9	2913.1	2409.1	1935.6	1498.5	1159.6	901.3	741.2	635.3	567.5	520.1
45°	3418.8	2884.3	2354.0	1857.6	1408.7	1070.7	849.6	717.5	634.5	576.0	524.3
47.5°	3414.6	2853.0	2304.9	1793.3	1355.3	1047.0	859.8	749.7	665.8	593.0	526.9
50°	3402.7	2824.2	2273.6	1769.5	1354.5	1082.6	916.5	803.9	702.2	608.2	524.3
52.5°	3401.9	2821.6	2290.5	1797.5	1403.6	1163.0	1002.1	866.6	737.8	625.1	525.2
55°	3422.2	2867.4	2362.5	1872.9	1522.2	1275.7	1098.7	933.5	777.6	637.0	522.6
57.5°	3504.4	2981.7	2498.9	2041.5	1674.7	1412.9	1191.8	983.5	792.9	633.6	510.8
60°	3684.8	3182.5	2708.9	2279.5	1870.3	1538.3	1246.9	1000.4	786.1	613.3	485.4
62.5°	3966.0	3473.0	2997.0	2513.3	2044.0	1613.7	1259.6	986.8	759.0	579.4	454.0
63°	4038.0	3539.9	3055.4	2561.6	2073.6	1621.3	1258.8	981.8	751.4	570.9	446.4
65°	4338.7	3827.1	3290.0	2720.8	2153.3	1636.6	1239.3	949.6	717.5	531.1	411.7
67.5°	4791.1	4143.9	3523.0	2869.0	2197.3	1609.4	1178.3	869.9	630.2	461.7	360.0
70°	5092.6	4354.0	3661.9	2917.3	2145.6	1485.8	1038.5	729.3	515.0	380.3	307.5
72.5°	5100.2	4165.9	3473.9	2666.6	1852.6	1225.7	813.2	551.4	400.7	309.2	265.1
75°	4555.6	3520.4	2839.4	2189.7	1425.6	866.6	571.8	402.4	307.5	255.0	229.6
77.5°	3386.6	2568.3	2049.1	1473.1	925.9	561.6	398.1	298.2	244.0	210.9	192.3
80°	2101.6	1605.2	1243.5	881.0	554.8	373.6	291.4	237.2	205.0	176.2	160.9
82.5°	1267.2	898.7	702.2	532.0	354.9	269.4	224.5	199.9	173.7	148.2	136.4
85°	928.4	642.9	471.0	328.7	219.4	177.9	157.6	152.5	134.7	114.4	107.6
87.5°	292.2	306.6	318.5	194.0	105.9	80.5	68.6	80.5	77.1	54.2	59.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1
2.5°	1410.4	1413.8	1411.2	1411.2	1409.5	1408.7	1414.6	1412.9	1414.6	1413.8	1415.5
5°	1405.3	1407.8	1406.1	1407.8	1406.1	1406.1	1413.8	1413.8	1417.2	1418.9	1423.1
7.5°	1407.0	1407.8	1407.0	1409.5	1407.8	1406.1	1410.4	1412.9	1418.9	1423.9	1428.2
10°	1412.9	1415.5	1414.6	1414.6	1409.5	1406.1	1408.7	1410.4	1416.3	1418.9	1423.9
12.5°	1427.3	1423.9	1417.2	1412.9	1401.1	1394.3	1390.9	1389.2	1393.4	1396.8	1399.4
15°	1423.9	1405.3	1390.1	1377.3	1359.6	1348.5	1340.1	1339.2	1340.1	1340.9	1343.5
17.5°	1389.2	1363.8	1333.3	1317.2	1296.9	1285.0	1279.1	1274.8	1274.0	1275.7	1279.9
20°	1339.2	1302.0	1268.1	1240.1	1218.1	1199.5	1203.7	1194.4	1198.6	1201.2	1208.8
22.5°	1263.0	1211.3	1172.4	1138.5	1112.2	1092.7	1092.7	1084.3	1086.0	1093.6	1103.7
25°	1139.3	1091.0	1035.1	1011.4	981.8	968.2	965.7	964.0	970.7	980.1	986.0
27.5°	1027.5	961.4	906.4	875.0	843.7	847.1	830.1	840.3	847.9	855.5	862.3
30°	876.7	822.5	772.5	741.2	703.9	704.8	707.3	709.0	715.8	725.9	739.5
32.5°	731.9	673.4	626.8	593.0	570.9	564.2	554.8	570.1	578.6	588.7	602.3
35°	612.4	551.4	512.5	482.8	470.1	460.8	458.3	456.6	464.2	469.3	480.3
37.5°	526.9	485.4	456.6	435.4	423.5	413.4	410.8	409.1	408.3	406.6	413.4
40°	492.2	459.1	434.5	415.1	404.1	398.1	395.6	392.2	388.8	384.6	383.7
42.5°	482.0	446.4	417.6	398.1	389.7	388.8	388.8	387.1	383.7	377.8	373.6
45°	477.8	434.5	401.5	386.3	380.3	381.2	381.2	381.2	378.6	372.7	365.9
47.5°	470.1	420.1	386.3	373.6	371.0	372.7	374.4	374.4	372.7	367.6	360.0
50°	455.7	398.1	362.5	350.7	349.8	350.7	350.7	352.4	350.7	346.5	339.7
52.5°	444.7	381.2	344.8	335.4	335.4	334.6	333.7	333.7	332.9	329.5	324.4
55°	434.5	370.2	337.1	329.5	331.2	331.2	329.5	328.7	325.3	321.0	316.0
57.5°	420.1	358.3	329.5	324.4	326.1	325.3	324.4	323.6	320.2	315.1	308.3
60°	394.7	337.1	314.3	310.9	313.4	314.3	317.7	318.5	316.8	310.9	301.6
62.5°	366.8	310.9	293.9	291.4	293.9	296.5	299.0	297.3	297.3	291.4	282.9
63°	357.5	306.6	288.0	288.0	290.5	293.1	294.8	293.1	293.9	287.2	278.7
65°	336.3	291.4	277.0	277.8	280.4	282.1	282.9	282.9	282.1	277.0	269.4
67.5°	300.7	269.4	260.9	265.1	268.5	269.4	269.4	271.1	269.4	266.0	259.2
70°	268.5	248.2	242.3	247.3	249.0	249.9	249.9	249.9	248.2	244.8	238.9
72.5°	244.0	233.8	232.9	232.1	232.9	230.4	230.4	228.7	224.5	221.9	216.9
75°	216.9	211.8	212.6	211.8	210.1	209.2	205.0	203.3	198.2	194.8	188.1
77.5°	186.4	187.2	186.4	187.2	188.9	189.7	183.8	179.6	175.3	172.0	168.6
80°	155.0	156.7	155.0	156.7	157.6	157.6	151.6	144.8	141.5	144.0	144.8
82.5°	138.1	138.1	131.3	133.0	131.3	128.8	124.5	122.0	119.4	117.7	122.0
85°	109.3	110.1	111.8	110.1	106.7	104.2	100.0	96.6	94.0	96.6	102.5
87.5°	65.2	70.3	67.8	67.8	66.9	66.9	63.5	61.8	59.3	69.5	74.5
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°	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1
2.5°	1414.6	1417.2	1418.0	1417.2	1418.0	1419.7	1412.9	1419.7	1420.5	1415.5	1417.2
5°	1426.5	1430.7	1436.6	1436.6	1440.9	1443.4	1440.0	1449.3	1451.0	1450.2	1454.4
7.5°	1434.9	1440.9	1448.5	1452.7	1460.4	1463.7	1466.3	1474.8	1476.5	1479.8	1483.2
10°	1434.1	1442.6	1449.3	1461.2	1470.5	1477.3	1482.4	1491.7	1495.1	1500.2	1502.7
12.5°	1409.5	1418.9	1431.6	1448.5	1465.4	1476.5	1490.0	1503.6	1508.6	1515.4	1519.7
15°	1354.5	1362.1	1379.9	1401.9	1424.8	1452.7	1472.2	1493.4	1502.7	1509.5	1515.4
17.5°	1282.5	1289.2	1305.3	1324.8	1355.3	1382.4	1412.1	1444.3	1460.4	1468.0	1470.5
20°	1215.6	1225.7	1230.0	1252.8	1263.0	1290.1	1315.5	1351.1	1371.4	1385.0	1393.4
22.5°	1110.5	1115.6	1137.6	1146.9	1154.6	1171.5	1202.8	1234.2	1261.3	1283.3	1290.1
25°	994.5	1008.0	1019.9	1027.5	1045.3	1046.1	1071.6	1093.6	1127.5	1148.6	1165.6
27.5°	866.6	886.9	893.7	898.7	912.3	928.4	937.7	959.7	979.2	1003.8	1034.3
30°	737.8	757.3	770.8	778.5	791.2	806.4	813.2	827.6	853.0	880.1	903.8
32.5°	617.5	637.8	644.6	669.2	672.6	687.0	692.1	714.9	729.3	752.2	780.2
35°	499.8	521.0	541.3	554.8	570.1	569.2	582.8	604.0	616.7	640.4	659.0
37.5°	419.3	432.0	446.4	461.7	478.6	491.3	504.0	513.3	523.5	539.6	556.5
40°	383.7	387.1	393.0	402.4	414.2	423.5	432.9	440.5	448.1	460.8	471.8
42.5°	369.3	366.8	366.8	365.1	369.3	374.4	382.0	384.6	396.4	404.1	408.3
45°	359.2	353.2	349.0	343.9	342.2	343.9	348.1	354.1	361.7	364.2	364.2
47.5°	353.2	343.9	337.1	329.5	325.3	325.3	327.8	332.1	336.3	337.1	336.3
50°	332.9	323.6	315.1	308.3	304.9	304.9	305.8	311.7	312.6	310.9	311.7
52.5°	317.7	308.3	299.9	293.9	289.7	290.5	293.1	295.6	298.2	296.5	294.8
55°	308.3	297.3	289.7	282.9	277.8	279.5	282.1	285.5	289.7	287.2	284.6
57.5°	299.9	290.5	281.2	274.5	268.5	270.2	272.8	277.8	282.9	277.8	274.5
60°	292.2	282.9	273.6	266.8	260.1	261.7	265.1	270.2	274.5	267.7	263.4
62.5°	273.6	265.1	258.4	255.0	250.7	253.3	255.8	261.7	260.1	253.3	248.2
63°	270.2	261.7	255.8	252.4	249.0	252.4	253.3	259.2	256.7	249.9	245.7
65°	260.1	253.3	247.3	244.0	240.6	242.3	242.3	244.8	241.4	236.3	232.9
67.5°	250.7	243.1	237.2	230.4	227.0	225.3	224.5	223.6	221.1	218.5	217.7
70°	230.4	225.3	220.2	214.3	209.2	205.8	204.1	202.5	200.8	199.9	199.1
72.5°	208.4	204.1	199.1	195.7	191.4	188.9	184.7	183.8	182.1	180.4	179.6
75°	184.7	179.6	177.9	174.5	172.0	170.3	166.9	166.0	164.3	161.8	160.9
77.5°	163.5	161.8	159.3	158.4	154.2	151.6	149.9	149.1	147.4	145.7	144.0
80°	145.7	144.8	143.2	142.3	139.8	136.4	134.7	135.5	133.0	132.1	129.6
82.5°	131.3	132.1	132.1	129.6	127.1	122.8	121.1	123.7	122.0	118.6	115.2
85°	111.8	111.0	111.8	111.0	105.9	101.6	100.0	101.6	100.8	95.7	94.9
87.5°	79.6	78.8	77.1	82.2	75.4	61.0	62.7	71.2	68.6	66.1	64.4
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1
2.5°	1420.5	1418.0	1419.7	1420.5	1418.0	1423.9	1418.0	1418.9	1420.5	1415.5	1414.6
5°	1457.8	1457.8	1464.6	1465.4	1464.6	1472.2	1471.4	1472.2	1470.5	1469.7	1466.3
7.5°	1488.3	1491.7	1496.8	1504.4	1506.9	1512.9	1514.6	1515.4	1518.8	1522.2	1520.5
10°	1510.3	1519.7	1523.9	1531.5	1539.1	1543.4	1547.6	1554.4	1556.9	1559.5	1556.1
12.5°	1525.6	1536.6	1543.4	1552.7	1562.0	1568.8	1576.4	1584.9	1593.3	1595.9	1591.7
15°	1518.0	1530.7	1540.8	1551.0	1565.4	1578.1	1592.5	1607.7	1618.8	1623.0	1617.9
17.5°	1470.5	1483.2	1498.5	1513.7	1529.0	1552.7	1573.0	1598.4	1616.2	1628.9	1630.6
20°	1405.3	1412.9	1434.9	1450.2	1474.8	1502.7	1533.2	1562.9	1583.2	1606.1	1619.6
22.5°	1308.7	1324.0	1348.5	1374.8	1399.4	1435.8	1468.0	1506.9	1541.7	1573.0	1602.7
25°	1191.0	1212.2	1241.0	1277.4	1309.6	1348.5	1395.1	1438.3	1496.8	1545.9	1609.4
27.5°	1063.9	1102.9	1142.7	1180.8	1216.4	1260.4	1308.7	1357.0	1423.9	1502.7	1585.7
30°	943.6	975.8	1025.8	1069.9	1111.4	1165.6	1215.6	1268.9	1332.4	1425.6	1519.7
32.5°	818.3	844.5	883.5	937.7	986.0	1049.5	1093.6	1157.1	1230.8	1329.1	1435.8
35°	688.7	725.1	756.4	793.7	830.1	893.7	959.7	1030.0	1114.8	1219.8	1336.7
37.5°	574.3	597.2	612.4	650.6	682.7	737.0	814.0	898.7	991.9	1098.7	1224.0
40°	479.4	493.8	510.8	536.2	563.3	612.4	683.6	778.5	875.9	982.6	1108.0
42.5°	414.2	423.5	425.2	444.7	470.1	518.4	575.2	662.4	770.0	881.8	1007.2
45°	369.3	369.3	368.5	376.9	397.3	438.8	490.5	568.4	670.9	787.8	918.2
47.5°	338.0	340.5	339.7	343.1	356.6	387.1	433.7	499.8	593.0	707.3	838.6
50°	314.3	317.7	318.5	319.3	324.4	349.8	389.7	443.0	526.0	635.3	767.5
52.5°	295.6	296.5	296.5	295.6	297.3	311.7	344.8	393.9	471.0	569.2	696.3
55°	285.5	286.3	286.3	286.3	286.3	295.6	319.3	359.2	421.0	513.3	628.5
57.5°	273.6	273.6	275.3	275.3	275.3	278.7	295.6	328.7	376.1	449.8	552.3
60°	263.4	266.0	269.4	270.2	269.4	269.4	277.8	299.9	331.2	384.6	471.0
62.5°	248.2	251.6	255.8	257.5	258.4	256.7	260.9	270.2	288.9	316.8	375.3
63°	245.7	249.0	252.4	254.1	255.0	253.3	256.7	264.3	279.5	302.4	354.9
65°	234.6	238.9	239.7	240.6	239.7	238.9	238.0	238.0	242.3	250.7	278.7
67.5°	219.4	221.9	221.9	223.6	219.4	217.7	216.0	214.3	211.8	212.6	222.8
70°	201.6	203.3	202.5	201.6	199.9	197.4	195.7	193.1	188.1	186.4	191.4
72.5°	181.3	183.0	183.0	183.0	179.6	177.9	176.2	174.5	172.8	174.5	176.2
75°	162.6	162.6	164.3	163.5	160.9	159.3	158.4	157.6	157.6	157.6	156.7
77.5°	144.8	144.0	144.0	141.5	139.8	138.9	140.6	141.5	140.6	138.9	138.1
80°	129.6	125.4	121.1	117.7	116.9	118.6	120.3	125.4	122.8	122.8	121.1
82.5°	110.1	100.8	94.9	95.7	93.2	94.0	95.7	101.6	100.0	100.8	104.2
85°	88.1	79.6	70.3	72.0	72.0	70.3	74.5	76.2	77.9	82.2	78.8
87.5°	61.8	54.2	44.9	39.0	40.7	42.4	44.0	42.4	37.3	39.0	38.1
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°	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1
2.5°	1412.9	1413.8	1413.8	1407.8	1406.1	1407.8	1407.0	1407.0	1401.9	1402.8	1401.1
5°	1464.6	1466.3	1461.2	1457.0	1451.0	1450.2	1449.3	1446.0	1442.6	1435.8	1432.4
7.5°	1519.7	1512.0	1510.3	1502.7	1500.2	1493.4	1488.3	1483.2	1479.0	1475.6	1473.1
10°	1554.4	1548.5	1546.8	1533.2	1529.0	1520.5	1515.4	1509.5	1504.4	1499.3	1498.5
12.5°	1585.7	1575.6	1569.6	1551.0	1542.5	1533.2	1529.0	1523.9	1522.2	1521.3	1524.7
15°	1610.3	1595.9	1584.9	1567.9	1561.2	1556.1	1556.9	1554.4	1564.5	1570.5	1581.5
17.5°	1626.4	1620.5	1617.9	1605.2	1609.4	1609.4	1621.3	1627.2	1645.9	1661.1	1676.4
20°	1634.9	1645.9	1667.0	1671.3	1681.4	1692.5	1710.2	1720.4	1739.9	1761.9	1783.1
22.5°	1642.5	1689.1	1732.3	1764.5	1787.3	1812.7	1825.4	1846.6	1860.2	1876.3	1908.5
25°	1684.8	1762.8	1839.0	1880.5	1934.7	1971.1	1999.9	2021.1	2044.8	2058.4	2094.8
27.5°	1673.0	1772.1	1873.7	1950.0	2034.7	2103.3	2164.3	2204.9	2235.4	2284.6	2315.1
30°	1618.8	1734.0	1856.8	1965.2	2083.8	2195.6	2301.5	2396.4	2477.7	2543.8	2588.7
32.5°	1541.7	1673.8	1817.8	1951.7	2103.3	2252.4	2404.8	2549.7	2687.8	2797.0	2865.7
35°	1455.3	1597.6	1756.8	1915.2	2097.4	2292.2	2498.0	2692.9	2892.8	3067.3	3204.5
37.5°	1350.2	1504.4	1678.9	1862.7	2071.9	2305.7	2564.9	2830.1	3085.0	3349.3	3542.5
40°	1240.1	1390.9	1572.2	1782.2	2023.7	2299.0	2616.6	2960.5	3329.9	3670.4	3964.3
42.5°	1146.1	1293.5	1483.2	1690.8	1950.8	2273.6	2651.3	3077.4	3532.3	3973.6	4364.1
45°	1053.8	1211.3	1402.8	1622.1	1905.9	2263.4	2696.2	3179.1	3698.3	4221.8	4719.9
47.5°	980.9	1136.8	1329.9	1565.4	1869.5	2257.5	2738.6	3273.9	3833.9	4406.5	4996.9
50°	911.5	1060.5	1248.6	1496.8	1831.4	2248.1	2764.0	3349.3	3939.7	4551.3	5193.4
52.5°	840.3	995.3	1178.3	1418.9	1781.4	2229.5	2771.6	3408.6	4049.0	4690.3	5377.2
55°	768.3	923.3	1106.3	1355.3	1713.6	2193.1	2765.7	3451.8	4163.4	4836.8	5545.0
57.5°	680.2	832.7	1024.1	1274.8	1626.4	2120.2	2736.9	3470.5	4234.5	4974.0	5713.5
60°	581.1	725.1	906.4	1162.2	1519.7	2015.2	2672.5	3444.2	4266.7	5064.7	5892.3
62.5°	456.6	581.9	748.8	1002.9	1364.6	1863.6	2531.9	3328.2	4188.8	5041.8	5969.3
63°	428.6	549.8	721.7	960.6	1318.9	1811.0	2490.4	3288.3	4154.1	5020.6	5960.0
65°	327.0	416.8	559.1	772.5	1114.8	1568.8	2271.9	3063.0	3935.5	4809.7	5813.5
67.5°	241.4	288.0	375.3	518.4	784.4	1220.6	1861.9	2645.4	3471.3	4293.0	5314.6
70°	199.9	217.7	258.4	332.1	485.4	809.8	1315.5	2013.5	2790.3	3497.6	4420.0
72.5°	178.7	191.4	210.1	243.1	306.6	475.2	855.5	1307.0	1943.2	2554.8	3334.1
75°	160.1	168.6	183.8	203.3	232.1	297.3	452.3	775.1	1187.6	1721.3	2287.1
77.5°	140.6	149.1	164.3	179.6	198.2	226.2	280.4	441.3	710.7	1004.6	1403.6
80°	122.0	126.2	138.9	160.9	174.5	197.4	215.2	276.1	387.1	526.0	748.0
82.5°	100.8	101.6	110.1	127.1	144.0	152.5	157.6	173.7	222.8	277.8	366.8
85°	72.0	68.6	73.7	80.5	94.0	86.4	92.3	97.4	118.6	143.2	262.6
87.5°	32.2	25.4	29.6	33.0	29.6	20.3	29.6	24.6	30.5	60.1	67.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	0°
2.5°	1402.8	1397.7	1397.7	1396.8	1397.7	1396.0	1392.6	1392.6	1395.1	1394.3	1394.3	2.5°
5°	1432.4	1425.6	1423.9	1423.1	1423.1	1418.9	1413.8	1411.2	1410.4	1407.0	1404.5	5°
7.5°	1471.4	1467.1	1469.7	1464.6	1462.9	1462.1	1455.3	1450.2	1442.6	1439.2	1426.5	7.5°
10°	1503.6	1501.0	1507.8	1506.9	1507.8	1507.8	1498.5	1493.4	1482.4	1476.5	1460.4	10°
12.5°	1531.5	1533.2	1545.9	1545.9	1548.5	1551.8	1546.8	1535.7	1531.5	1525.6	1508.6	12.5°
15°	1602.7	1609.4	1618.8	1634.0	1638.2	1639.1	1643.3	1634.0	1623.0	1607.7	1587.4	15°
17.5°	1699.2	1712.8	1744.1	1766.2	1770.4	1774.6	1772.1	1770.4	1750.1	1737.4	1716.2	17.5°
20°	1820.4	1853.4	1897.4	1927.9	1941.5	1943.2	1960.1	1948.3	1929.6	1904.2	1873.7	20°
22.5°	1955.9	2011.0	2066.9	2111.8	2138.0	2149.9	2167.7	2150.7	2126.2	2110.9	2070.3	22.5°
25°	2141.4	2201.5	2265.9	2301.5	2368.4	2387.9	2398.1	2393.0	2367.6	2378.6	2341.3	25°
27.5°	2395.5	2447.2	2537.8	2582.7	2645.4	2681.8	2674.2	2716.6	2724.2	2750.5	2754.7	27.5°
30°	2672.5	2758.1	2880.1	2970.7	3066.4	3128.3	3177.4	3214.7	3257.9	3330.7	3374.7	30°
32.5°	2971.5	3095.2	3251.1	3443.4	3646.7	3812.7	3999.9	4032.1	4128.6	4100.7	4082.1	32.5°
35°	3304.4	3460.3	3660.2	3912.6	4208.3	4482.7	4663.2	4753.8	4791.9	4813.1	4684.3	35°
37.5°	3750.0	3960.9	4183.7	4459.0	4685.2	4941.8	5149.4	5374.7	5478.0	5428.9	5182.4	37.5°
40°	4243.8	4441.2	4742.8	4968.1	5234.9	5657.6	5938.8	6209.9	6294.6	6131.1	5744.9	40°
42.5°	4739.4	5010.5	5337.4	5657.6	5964.3	6347.1	6719.9	6987.5	7080.7	6801.2	6342.9	42.5°
45°	5180.7	5528.0	5912.6	6241.3	6669.9	7170.5	7627.1	7842.2	7825.3	7376.3	6860.5	45°
47.5°	5565.3	6015.9	6449.6	6892.7	7324.7	7889.7	8342.0	8589.3	8414.0	7942.2	7357.7	47.5°
50°	5882.9	6427.6	6951.1	7460.2	7990.5	8591.0	9027.3	9256.0	8989.2	8392.0	7738.9	50°
52.5°	6124.4	6799.5	7402.6	7971.8	8605.4	9254.3	9642.3	9780.3	9364.4	8740.1	8024.3	52.5°
55°	6352.2	7115.4	7782.9	8429.2	9217.9	9799.8	10163.2	10137.8	9600.8	8891.8	8203.1	55°
57.5°	6524.2	7384.8	8095.5	8831.6	9681.2	10303.0	10513.1	10345.3	9699.0	8936.6	8254.8	57.5°
60°	6741.0	7594.9	8373.3	9195.0	10121.7	10647.7	10675.7	10375.0	9671.1	8851.9	8181.9	60°
62.5°	6879.9	7726.2	8550.4	9444.0	10457.1	10841.7	10641.8	10247.1	9510.1	8642.7	8015.0	62.5°
63°	6893.5	7738.9	8564.8	9468.6	10504.6	10850.2	10610.5	10189.5	9462.7	8585.1	7971.0	63°
65°	6832.5	7702.5	8498.7	9424.6	10516.4	10750.2	10380.9	9953.1	9200.9	8291.2	7711.8	65°
67.5°	6406.4	7311.1	8070.9	8939.2	10059.0	10188.6	9818.5	9353.4	8646.9	7657.6	7145.1	67.5°
70°	5643.2	6503.0	7041.7	7848.2	8833.3	8988.3	8657.1	8297.1	7669.4	6842.7	6417.4	70°
72.5°	4546.3	5390.8	5714.4	6331.9	7114.6	7080.7	6847.8	6802.9	6472.5	5778.7	5522.9	72.5°
75°	3398.5	4202.3	4338.7	4590.3	5027.4	5016.4	5070.6	5263.7	5428.9	5018.9	4691.1	75°
77.5°	2241.4	3041.0	3125.7	3418.8	3539.9	3872.0	4261.6	4747.0	4987.6	4819.9	4417.5	77.5°
80°	1240.1	2080.4	2063.5	2177.8	2392.1	2875.0	3465.4	4186.2	4667.4	4547.1	4106.6	80°
82.5°	644.6	1314.7	1295.2	1315.5	1514.6	1920.3	2369.3	2958.8	3456.1	3467.1	3318.8	82.5°
85°	479.4	943.6	999.5	1045.3	1177.4	1318.9	1401.1	1590.0	1862.7	2116.8	2207.5	85°
87.5°	176.2	566.7	705.6	758.1	761.5	743.7	605.7	666.6	606.5	717.5	1002.1	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°
1401.1	1401.1	1401.1	1401.1	1401.1	1401.1	1401.1
1396.0	1396.0	1395.1	1396.8	1397.7	1400.2	1399.4
1401.9	1399.4	1396.8	1395.1	1393.4	1394.3	1392.6
1417.2	1408.7	1401.9	1396.0	1390.9	1390.1	1385.0
1451.0	1435.8	1423.1	1413.8	1403.6	1398.5	1389.2
1494.2	1477.3	1461.2	1447.7	1435.8	1429.0	1422.2
1569.6	1545.1	1525.6	1511.2	1499.3	1491.7	1484.9
1681.4	1651.0	1621.3	1593.3	1590.0	1572.2	1572.2
1835.6	1794.1	1756.0	1732.3	1721.3	1697.5	1697.5
2049.1	2008.4	1951.7	1922.9	1925.4	1905.1	1914.4
2325.2	2291.3	2232.9	2221.0	2221.0	2199.0	2166.0
2739.4	2727.6	2663.2	2679.3	2645.4	2563.3	2474.3
3354.4	3354.4	3229.9	3140.1	3062.2	2934.3	2777.6
3970.2	3889.8	3699.2	3546.7	3384.9	3189.2	2987.6
4490.3	4276.0	4082.9	3896.5	3653.4	3443.4	3160.4
4929.1	4725.8	4504.7	4221.0	3935.5	3642.4	3279.0
5473.0	5225.6	4893.6	4536.9	4186.2	3783.0	3362.0
5970.2	5660.2	5240.9	4789.4	4343.0	3893.2	3401.9
6437.8	6038.0	5520.4	4978.3	4470.0	3960.9	3418.8
6878.3	6342.1	5739.8	5112.9	4557.3	3997.3	3414.6
7168.8	6564.8	5877.9	5194.3	4609.8	4010.1	3402.7
7350.9	6701.2	5959.2	5239.2	4636.0	4012.6	3401.9
7453.4	6778.3	6003.2	5270.5	4664.8	4027.8	3422.2
7533.0	6839.3	6052.4	5323.9	4733.5	4099.0	3504.4
7608.4	6999.4	6180.3	5422.1	4852.9	4232.0	3684.8
7639.8	7303.5	6440.3	5603.4	5019.8	4445.5	3966.0
7637.2	7361.1	6515.7	5653.4	5063.8	4502.2	4038.0
7544.9	7544.1	6858.8	5892.3	5268.8	4764.8	4338.7
7271.3	7635.5	7238.3	6207.4	5587.3	5197.7	4791.1
6838.4	7524.6	7289.9	6290.4	5813.5	5594.9	5092.6
6093.0	6994.3	6806.3	5936.3	5736.4	5672.9	5100.2
4928.3	5622.9	5542.4	5071.4	5145.1	5275.6	4555.6
3970.2	3948.2	3936.4	3765.3	4078.7	4343.8	3386.6
3316.3	2731.8	2537.0	2470.9	2987.6	3190.9	2101.6
3100.3	2454.0	1968.6	1885.6	2238.8	2347.2	1267.2
2369.3	2382.8	2062.6	1767.8	1741.6	1594.2	928.4
1159.6	1179.1	1246.0	1137.6	975.8	822.5	292.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)