

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: P146059

Luminaire Tested: **LDRL-SLR-E05-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146059
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-E05-E-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12300.3 lumens
Efficiency: N/A
Efficacy: 96.6 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

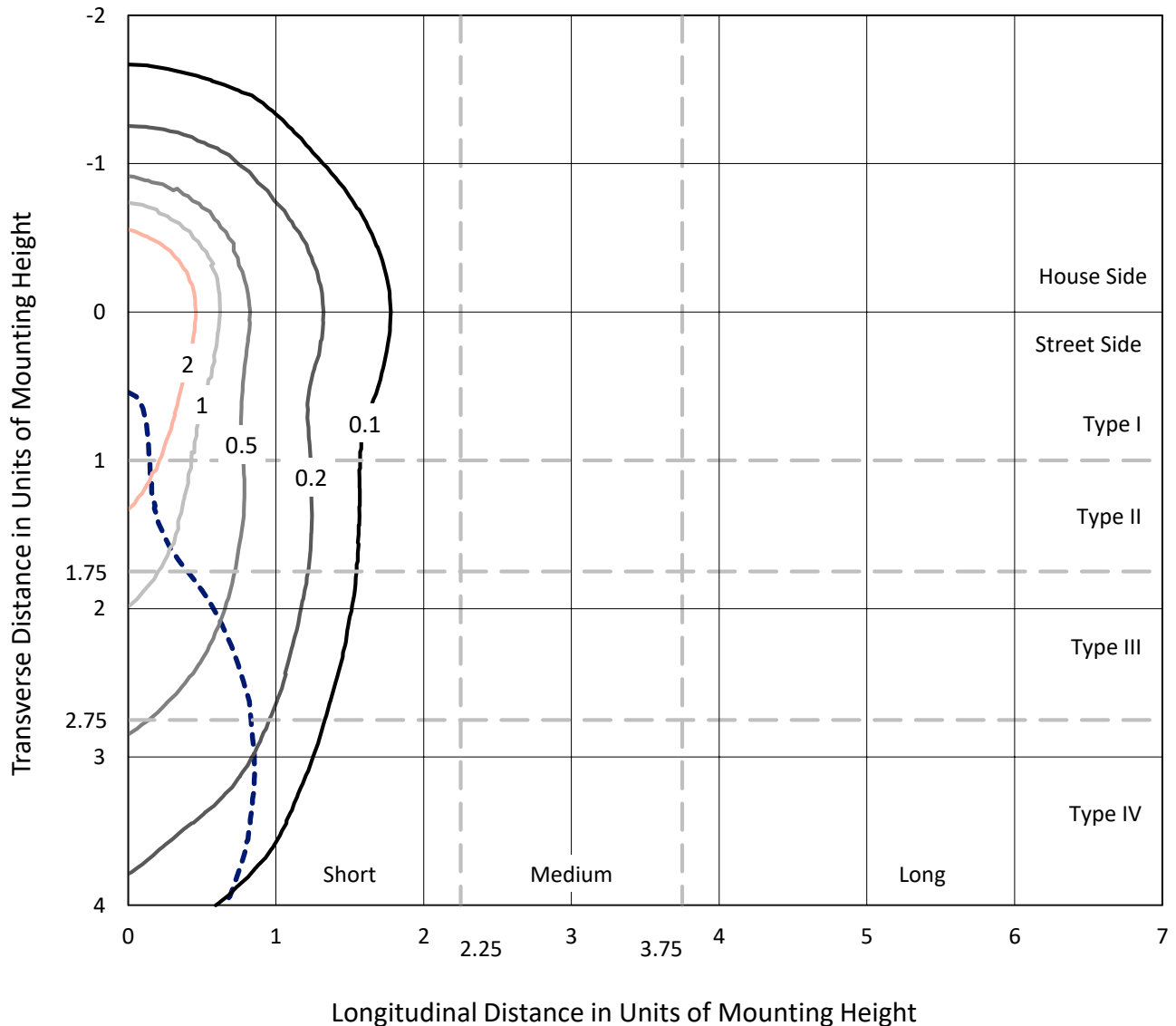
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

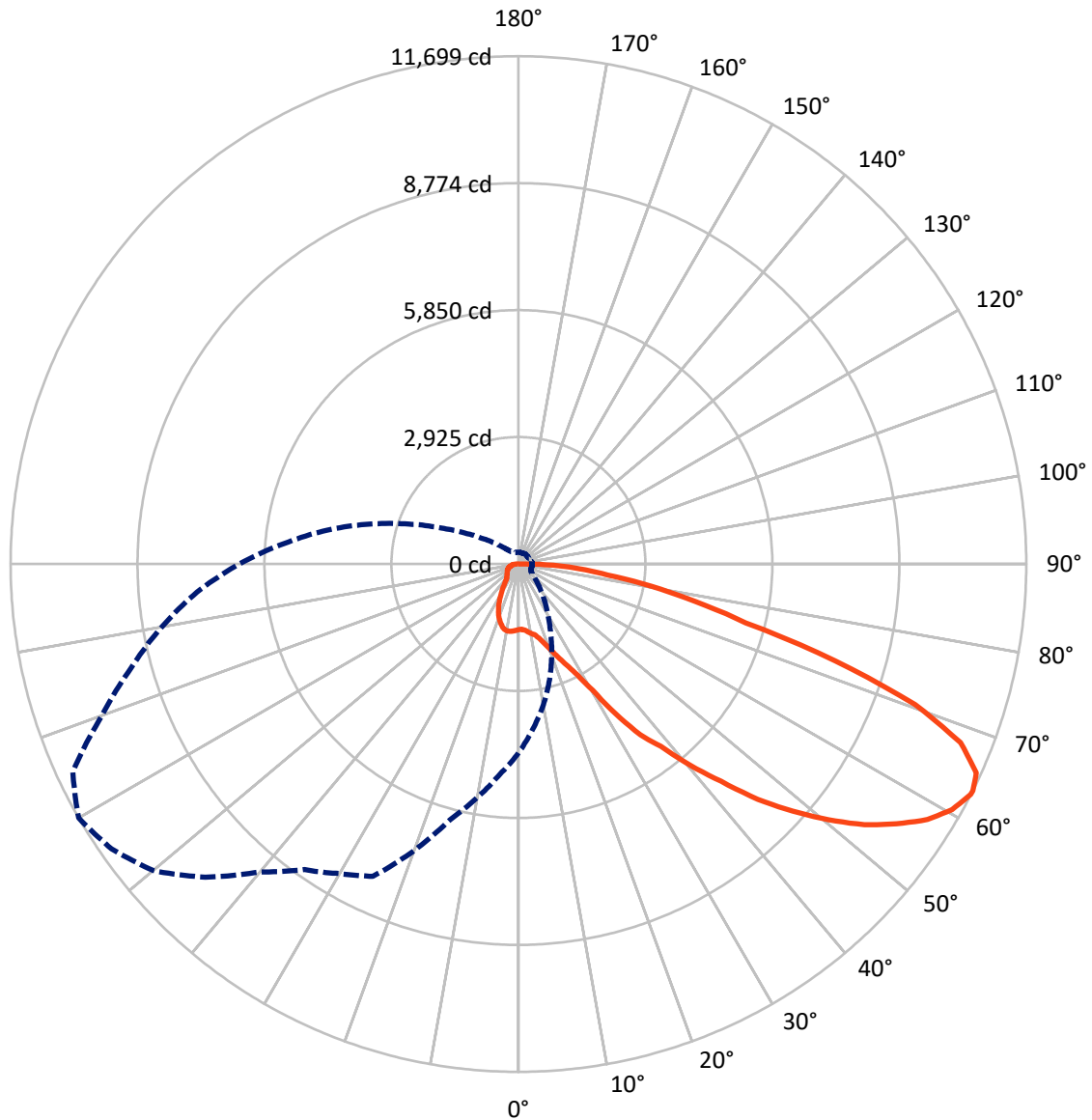
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.8 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	2574.8	0.0	2574.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	9725.5	0.0	9725.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	12300.3	0.0	12300.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	148.4	1.2
10°-20°	463.1	3.8
20°-30°	818.9	6.7
30°-40°	1292.8	10.5
40°-50°	1901.1	15.5
50°-60°	2504.2	20.4
60°-70°	2791.2	22.7
70°-80°	1833.9	14.9
80°-90°	546.9	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°	12300.3	100.0
0°-180°	12300.3	100.0



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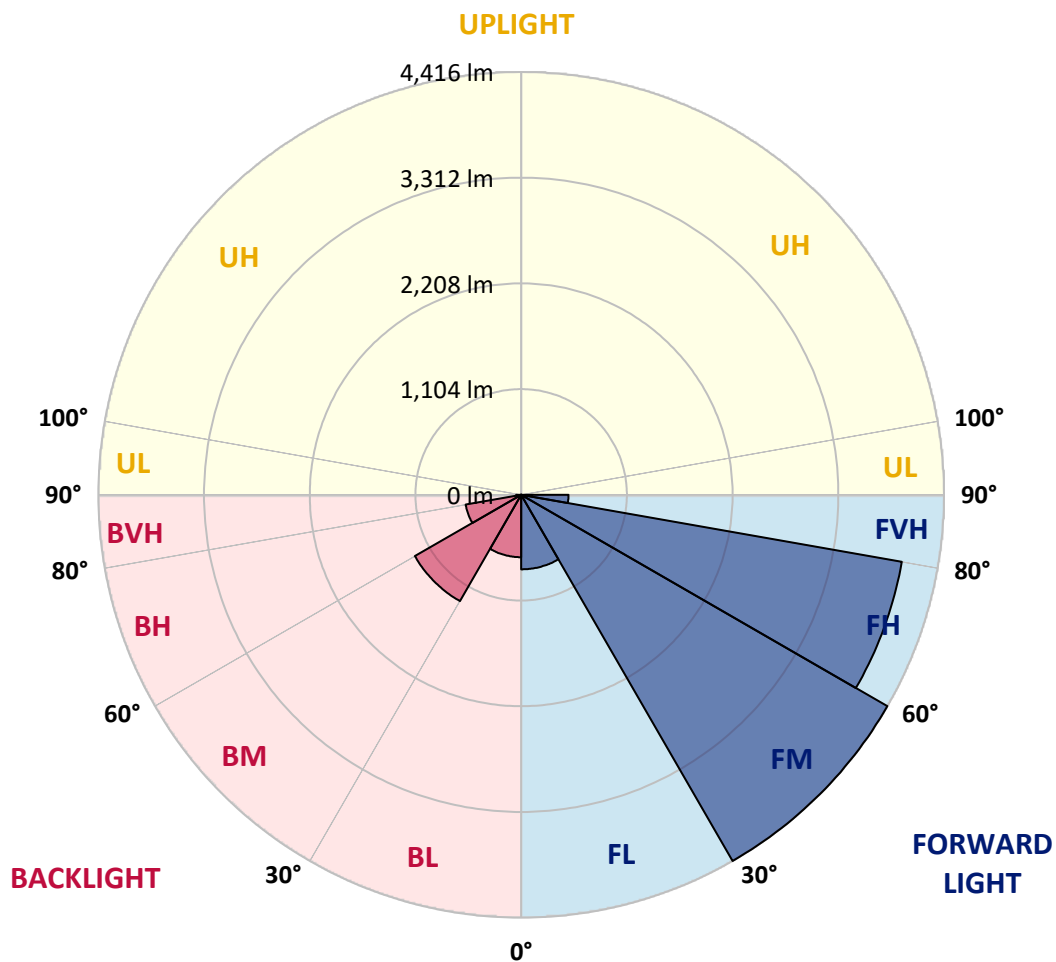
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	778.5	6.3			
FM (30°-60°)	4416.1	35.9			
FH (60°-80°)	4036.6	32.8			G2/5000
FVH (80°-90°)	494.3	4.0			G3/500
BL (0°-30°)	651.8	5.3	B2/1000		
BM (30°-60°)	1281.9	10.4	B2/2500		
BH (60°-80°)	588.5	4.8	B2/1000		G2/1000
BVH (80°-90°)	52.6	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°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1508.9	1511.6	1511.6	1508.9	1511.6	1510.7	1510.7	1513.4	1514.3	1518.9	1516.2
5°	1501.5	1502.5	1503.4	1501.5	1502.5	1502.5	1504.3	1507.0	1507.9	1513.4	1510.7
7.5°	1493.3	1495.2	1491.5	1492.4	1495.2	1498.8	1498.8	1502.5	1508.9	1511.6	1510.7
10°	1497.9	1496.1	1493.3	1492.4	1494.2	1495.2	1497.0	1503.4	1508.9	1511.6	1516.2
12.5°	1533.5	1528.0	1525.3	1524.4	1525.3	1523.5	1529.9	1531.7	1533.5	1537.2	1535.3
15°	1601.1	1593.8	1589.2	1584.7	1594.7	1590.1	1590.1	1584.7	1575.5	1561.8	1544.5
17.5°	1695.2	1687.0	1683.3	1681.5	1682.4	1674.2	1657.7	1631.2	1599.3	1562.7	1528.9
20°	1830.4	1843.1	1837.7	1813.0	1803.9	1767.3	1715.3	1660.5	1604.8	1546.3	1490.6
22.5°	2064.2	2056.9	2032.2	1971.0	1916.2	1834.0	1740.8	1652.3	1570.0	1485.1	1412.0
25°	2335.4	2274.2	2204.8	2084.3	1958.2	1823.0	1688.8	1583.7	1474.1	1381.0	1293.3
27.5°	2667.9	2535.5	2358.3	2161.9	1973.8	1793.8	1634.9	1496.1	1370.9	1271.4	1173.7
30°	2994.9	2773.8	2527.2	2266.9	2013.0	1770.1	1560.0	1399.3	1254.9	1127.1	1028.4
32.5°	3221.4	2953.8	2646.9	2325.4	2016.7	1731.7	1477.8	1286.0	1123.4	994.6	875.9
35°	3407.7	3073.4	2688.9	2316.3	1958.2	1642.2	1360.0	1147.2	974.5	841.2	737.1
37.5°	3535.6	3134.6	2686.2	2263.3	1854.1	1499.7	1224.8	1008.3	847.6	723.4	627.5
40°	3625.1	3153.8	2650.5	2172.9	1734.5	1361.8	1080.5	883.2	742.6	645.7	576.3
42.5°	3668.0	3141.0	2597.6	2087.0	1615.7	1250.4	971.8	799.2	685.0	611.9	560.8
45°	3686.3	3110.0	2538.2	2003.0	1518.9	1154.5	916.1	773.6	684.1	621.1	565.4
47.5°	3681.7	3076.2	2485.2	1933.6	1461.4	1128.9	927.1	808.3	717.9	639.3	568.1
50°	3668.9	3045.1	2451.4	1908.0	1460.4	1167.3	988.2	866.8	757.2	655.8	565.4
52.5°	3668.0	3042.4	2469.7	1938.1	1513.4	1254.0	1080.5	934.4	795.5	674.1	566.3
55°	3689.9	3091.7	2547.3	2019.4	1641.3	1375.5	1184.6	1006.5	838.5	686.8	563.5
57.5°	3778.5	3215.0	2694.4	2201.2	1805.7	1523.5	1285.1	1060.4	854.9	683.2	550.8
60°	3973.1	3431.5	2920.9	2457.8	2016.7	1658.6	1344.5	1078.7	847.6	661.3	523.3
62.5°	4276.3	3744.7	3231.4	2709.9	2203.9	1739.9	1358.2	1064.1	818.4	624.7	489.6
63°	4353.9	3816.9	3294.5	2762.0	2235.9	1748.2	1357.2	1058.6	810.1	615.6	481.3
65°	4678.2	4126.5	3547.5	2933.7	2321.7	1764.6	1336.2	1023.9	773.6	572.7	443.9
67.5°	5165.9	4468.1	3798.6	3093.5	2369.2	1735.4	1270.5	938.0	679.5	497.8	388.2
70°	5491.1	4694.6	3948.4	3145.6	2313.5	1602.0	1119.8	786.4	555.3	410.1	331.5
72.5°	5499.3	4491.9	3745.6	2875.2	1997.5	1321.6	876.8	594.6	432.0	333.4	285.9
75°	4912.0	3795.9	3061.6	2361.0	1537.2	934.4	616.5	433.8	331.5	274.9	247.5
77.5°	3651.6	2769.3	2209.4	1588.3	998.3	605.6	429.3	321.5	263.0	227.4	207.3
80°	2266.0	1730.8	1340.8	949.9	598.2	402.8	314.2	255.7	221.0	190.0	173.5
82.5°	1366.4	969.1	757.2	573.6	382.7	290.4	242.0	215.6	187.2	159.8	147.0
85°	1001.0	693.2	507.8	354.4	236.6	191.8	169.9	164.4	145.2	123.3	116.0
87.5°	315.1	330.6	343.4	209.2	114.2	86.8	74.0	86.8	83.1	58.5	63.9
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1520.7	1524.4	1521.6	1521.6	1519.8	1518.9	1525.3	1523.5	1525.3	1524.4	1526.2
5°	1515.2	1518.0	1516.2	1518.0	1516.2	1516.2	1524.4	1524.4	1528.0	1529.9	1534.4
7.5°	1517.1	1518.0	1517.1	1519.8	1518.0	1516.2	1520.7	1523.5	1529.9	1535.3	1539.9
10°	1523.5	1526.2	1525.3	1525.3	1519.8	1516.2	1518.9	1520.7	1527.1	1529.9	1535.3
12.5°	1539.0	1535.3	1528.0	1523.5	1510.7	1503.4	1499.7	1497.9	1502.5	1506.1	1508.9
15°	1535.3	1515.2	1498.8	1485.1	1465.9	1454.1	1444.9	1444.0	1444.9	1445.8	1448.6
17.5°	1497.9	1470.5	1437.6	1420.3	1398.3	1385.6	1379.2	1374.6	1373.7	1375.5	1380.1
20°	1444.0	1403.8	1367.3	1337.1	1313.4	1293.3	1297.9	1287.8	1292.4	1295.1	1303.4
22.5°	1361.8	1306.1	1264.1	1227.5	1199.2	1178.2	1178.2	1169.1	1170.9	1179.1	1190.1
25°	1228.5	1176.4	1116.1	1090.5	1058.6	1044.0	1041.2	1039.4	1046.7	1056.7	1063.1
27.5°	1107.9	1036.7	977.3	943.5	909.7	913.4	895.1	906.0	914.3	922.5	929.8
30°	945.3	886.9	833.0	799.2	759.0	759.9	762.6	764.5	771.8	782.7	797.4
32.5°	789.1	726.1	675.9	639.3	615.6	608.3	598.2	614.7	623.8	634.8	649.4
35°	660.4	594.6	552.6	520.6	506.9	496.9	494.1	492.3	500.5	506.0	517.9
37.5°	568.1	523.3	492.3	469.5	456.7	445.7	443.0	441.1	440.2	438.4	445.7
40°	530.7	495.0	468.5	447.5	435.7	429.3	426.5	422.9	419.2	414.7	413.7
42.5°	519.7	481.3	450.3	429.3	420.1	419.2	419.2	417.4	413.7	407.4	402.8
45°	515.1	468.5	432.9	416.5	410.1	411.0	411.0	411.0	408.3	401.9	394.6
47.5°	506.9	453.0	416.5	402.8	400.0	401.9	403.7	403.7	401.9	396.4	388.2
50°	491.4	429.3	390.9	378.1	377.2	378.1	378.1	380.0	378.1	373.6	366.3
52.5°	479.5	411.0	371.7	361.7	361.7	360.8	359.9	359.9	358.9	355.3	349.8
55°	468.5	399.1	363.5	355.3	357.1	357.1	355.3	354.4	350.7	346.2	340.7
57.5°	453.0	386.3	355.3	349.8	351.6	350.7	349.8	348.9	345.2	339.8	332.5
60°	425.6	363.5	338.9	335.2	337.9	338.9	342.5	343.4	341.6	335.2	325.2
62.5°	395.5	335.2	316.9	314.2	316.9	319.7	322.4	320.6	320.6	314.2	305.1
63°	385.4	330.6	310.5	310.5	313.3	316.0	317.8	316.0	316.9	309.6	300.5
65°	362.6	314.2	298.7	299.6	302.3	304.1	305.1	305.1	304.1	298.7	290.4
67.5°	324.2	290.4	281.3	285.9	289.5	290.4	290.4	292.3	290.4	286.8	279.5
70°	289.5	267.6	261.2	266.7	268.5	269.4	269.4	269.4	267.6	264.0	257.6
72.5°	263.0	252.1	251.2	250.3	251.2	248.4	248.4	246.6	242.0	239.3	233.8
75°	233.8	228.3	229.3	228.3	226.5	225.6	221.0	219.2	213.7	210.1	202.8
77.5°	200.9	201.9	200.9	201.9	203.7	204.6	198.2	193.6	189.1	185.4	181.8
80°	167.1	169.0	167.1	169.0	169.9	169.9	163.5	156.2	152.5	155.3	156.2
82.5°	148.9	148.9	141.6	143.4	141.6	138.8	134.3	131.5	128.8	127.0	131.5
85°	117.8	118.7	120.6	118.7	115.1	112.3	107.8	104.1	101.4	104.1	110.5
87.5°	70.3	75.8	73.1	73.1	72.2	72.2	68.5	66.7	63.9	74.9	80.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1525.3	1528.0	1528.9	1528.0	1528.9	1530.8	1523.5	1530.8	1531.7	1526.2	1528.0
5°	1538.1	1542.6	1549.0	1549.0	1553.6	1556.3	1552.7	1562.7	1564.6	1563.7	1568.2
7.5°	1547.2	1553.6	1561.8	1566.4	1574.6	1578.3	1581.0	1590.1	1592.0	1595.6	1599.3
10°	1546.3	1555.4	1562.7	1575.5	1585.6	1592.9	1598.4	1608.4	1612.1	1617.5	1620.3
12.5°	1519.8	1529.9	1543.6	1561.8	1580.1	1592.0	1606.6	1621.2	1626.7	1634.0	1638.6
15°	1460.4	1468.7	1487.8	1511.6	1536.3	1566.4	1587.4	1610.2	1620.3	1627.6	1634.0
17.5°	1382.8	1390.1	1407.5	1428.5	1461.4	1490.6	1522.6	1557.3	1574.6	1582.8	1585.6
20°	1310.7	1321.6	1326.2	1350.8	1361.8	1391.0	1418.4	1456.8	1478.7	1493.3	1502.5
22.5°	1197.4	1202.9	1226.6	1236.7	1244.9	1263.2	1297.0	1330.8	1360.0	1383.7	1391.0
25°	1072.3	1086.9	1099.7	1107.9	1127.1	1128.0	1155.4	1179.1	1215.7	1238.5	1256.8
27.5°	934.4	956.3	963.6	969.1	983.7	1001.0	1011.1	1034.8	1055.8	1082.3	1115.2
30°	795.5	816.5	831.1	839.4	853.1	869.5	876.8	892.3	919.7	949.0	974.5
32.5°	665.8	687.8	695.1	721.5	725.2	740.7	746.2	770.9	786.4	811.1	841.2
35°	538.9	561.7	583.6	598.2	614.7	613.8	628.4	651.2	664.9	690.5	710.6
37.5°	452.1	465.8	481.3	497.8	516.0	529.7	543.4	553.5	564.5	581.8	600.1
40°	413.7	417.4	423.8	433.8	446.6	456.7	466.7	474.9	483.2	496.9	508.7
42.5°	398.2	395.5	395.5	393.7	398.2	403.7	411.9	414.7	427.4	435.7	440.2
45°	387.3	380.9	376.3	370.8	369.0	370.8	375.4	381.8	390.0	392.7	392.7
47.5°	380.9	370.8	363.5	355.3	350.7	350.7	353.5	358.0	362.6	363.5	362.6
50°	358.9	348.9	339.8	332.5	328.8	328.8	329.7	336.1	337.0	335.2	336.1
52.5°	342.5	332.5	323.3	316.9	312.4	313.3	316.0	318.8	321.5	319.7	317.8
55°	332.5	320.6	312.4	305.1	299.6	301.4	304.1	307.8	312.4	309.6	306.9
57.5°	323.3	313.3	303.2	295.9	289.5	291.4	294.1	299.6	305.1	299.6	295.9
60°	315.1	305.1	295.0	287.7	280.4	282.2	285.9	291.4	295.9	288.6	284.1
62.5°	295.0	285.9	278.6	274.9	270.4	273.1	275.8	282.2	280.4	273.1	267.6
63°	291.4	282.2	275.8	272.2	268.5	272.2	273.1	279.5	276.7	269.4	264.9
65°	280.4	273.1	266.7	263.0	259.4	261.2	261.2	264.0	260.3	254.8	251.2
67.5°	270.4	262.1	255.7	248.4	244.8	243.0	242.0	241.1	238.4	235.6	234.7
70°	248.4	243.0	237.5	231.1	225.6	221.9	220.1	218.3	216.5	215.6	214.6
72.5°	224.7	220.1	214.6	211.0	206.4	203.7	199.1	198.2	196.4	194.5	193.6
75°	199.1	193.6	191.8	188.2	185.4	183.6	179.9	179.0	177.2	174.4	173.5
77.5°	176.3	174.4	171.7	170.8	166.2	163.5	161.7	160.7	158.9	157.1	155.3
80°	157.1	156.2	154.4	153.4	150.7	147.0	145.2	146.1	143.4	142.5	139.7
82.5°	141.6	142.5	142.5	139.7	137.0	132.4	130.6	133.3	131.5	127.9	124.2
85°	120.6	119.6	120.6	119.6	114.2	109.6	107.8	109.6	108.7	103.2	102.3
87.5°	85.9	84.9	83.1	88.6	81.3	65.8	67.6	76.7	74.0	71.2	69.4
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°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1531.7	1528.9	1530.8	1531.7	1528.9	1535.3	1528.9	1529.9	1531.7	1526.2	1525.3
5°	1571.9	1571.9	1579.2	1580.1	1579.2	1587.4	1586.5	1587.4	1585.6	1584.7	1581.0
7.5°	1604.8	1608.4	1613.9	1622.1	1624.9	1631.2	1633.1	1634.0	1637.6	1641.3	1639.5
10°	1628.5	1638.6	1643.1	1651.3	1659.6	1664.1	1668.7	1676.0	1678.7	1681.5	1677.8
12.5°	1644.9	1656.8	1664.1	1674.2	1684.2	1691.5	1699.7	1708.9	1718.0	1720.8	1716.2
15°	1636.7	1650.4	1661.4	1672.3	1687.9	1701.6	1717.1	1733.5	1745.4	1750.0	1744.5
17.5°	1585.6	1599.3	1615.7	1632.2	1648.6	1674.2	1696.1	1723.5	1742.7	1756.4	1758.2
20°	1515.2	1523.5	1547.2	1563.7	1590.1	1620.3	1653.2	1685.1	1707.1	1731.7	1746.3
22.5°	1411.1	1427.6	1454.1	1482.4	1508.9	1548.1	1582.8	1624.9	1662.3	1696.1	1728.1
25°	1284.2	1307.0	1338.1	1377.3	1412.0	1454.1	1504.3	1550.9	1613.9	1666.9	1735.4
27.5°	1147.2	1189.2	1232.1	1273.2	1311.6	1359.1	1411.1	1463.2	1535.3	1620.3	1709.8
30°	1017.5	1052.2	1106.1	1153.6	1198.3	1256.8	1310.7	1368.2	1436.7	1537.2	1638.6
32.5°	882.3	910.6	952.6	1011.1	1063.1	1131.6	1179.1	1247.6	1327.1	1433.0	1548.1
35°	742.6	781.8	815.6	855.8	895.1	963.6	1034.8	1110.6	1202.0	1315.2	1441.3
37.5°	619.3	643.9	660.4	701.5	736.2	794.6	877.7	969.1	1069.5	1184.6	1319.8
40°	517.0	532.5	550.8	578.2	607.4	660.4	737.1	839.4	944.4	1059.5	1194.7
42.5°	446.6	456.7	458.5	479.5	506.9	559.0	620.2	714.2	830.2	950.8	1086.0
45°	398.2	398.2	397.3	406.4	428.4	473.1	528.8	612.9	723.4	849.4	990.1
47.5°	364.4	367.2	366.3	369.9	384.5	417.4	467.6	538.9	639.3	762.6	904.2
50°	338.9	342.5	343.4	344.3	349.8	377.2	420.1	477.7	567.2	685.0	827.5
52.5°	318.8	319.7	319.7	318.8	320.6	336.1	371.7	424.7	507.8	613.8	750.8
55°	307.8	308.7	308.7	308.7	308.7	318.8	344.3	387.3	453.9	553.5	677.7
57.5°	295.0	295.0	296.8	296.8	296.8	300.5	318.8	354.4	405.5	485.0	595.5
60°	284.1	286.8	290.4	291.4	290.4	290.4	299.6	323.3	357.1	414.7	507.8
62.5°	267.6	271.3	275.8	277.7	278.6	276.7	281.3	291.4	311.5	341.6	404.6
63°	264.9	268.5	272.2	274.0	274.9	273.1	276.7	285.0	301.4	326.1	382.7
65°	253.0	257.6	258.5	259.4	258.5	257.6	256.7	256.7	261.2	270.4	300.5
67.5°	236.6	239.3	239.3	241.1	236.6	234.7	232.9	231.1	228.3	229.3	240.2
70°	217.4	219.2	218.3	217.4	215.6	212.8	211.0	208.2	202.8	200.9	206.4
72.5°	195.5	197.3	197.3	197.3	193.6	191.8	190.0	188.2	186.3	188.2	190.0
75°	175.4	175.4	177.2	176.3	173.5	171.7	170.8	169.9	169.9	169.9	169.0
77.5°	156.2	155.3	155.3	152.5	150.7	149.8	151.6	152.5	151.6	149.8	148.9
80°	139.7	135.2	130.6	127.0	126.0	127.9	129.7	135.2	132.4	132.4	130.6
82.5°	118.7	108.7	102.3	103.2	100.5	101.4	103.2	109.6	107.8	108.7	112.3
85°	95.0	85.9	75.8	77.6	77.6	75.8	80.4	82.2	84.0	88.6	84.9
87.5°	66.7	58.5	48.4	42.0	43.8	45.7	47.5	45.7	40.2	42.0	41.1
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°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
2.5°	1523.5	1524.4	1524.4	1518.0	1516.2	1518.0	1517.1	1517.1	1511.6	1512.5	1510.7
5°	1579.2	1581.0	1575.5	1571.0	1564.6	1563.7	1562.7	1559.1	1555.4	1548.1	1544.5
7.5°	1638.6	1630.3	1628.5	1620.3	1617.5	1610.2	1604.8	1599.3	1594.7	1591.1	1588.3
10°	1676.0	1669.6	1667.8	1653.2	1648.6	1639.5	1634.0	1627.6	1622.1	1616.6	1615.7
12.5°	1709.8	1698.8	1692.4	1672.3	1663.2	1653.2	1648.6	1643.1	1641.3	1640.4	1644.0
15°	1736.3	1720.8	1708.9	1690.6	1683.3	1677.8	1678.7	1676.0	1687.0	1693.4	1705.2
17.5°	1753.6	1747.2	1744.5	1730.8	1735.4	1735.4	1748.2	1754.5	1774.6	1791.1	1807.5
20°	1762.8	1774.6	1797.5	1802.0	1813.0	1824.9	1844.1	1855.0	1876.0	1899.8	1922.6
22.5°	1771.0	1821.2	1867.8	1902.5	1927.2	1954.6	1968.3	1991.1	2005.7	2023.1	2057.8
25°	1816.7	1900.7	1982.9	2027.6	2086.1	2125.4	2156.4	2179.3	2204.8	2219.4	2258.7
27.5°	1803.9	1910.7	2020.3	2102.5	2193.9	2267.8	2333.6	2377.5	2410.3	2463.3	2496.2
30°	1745.4	1869.6	2002.1	2119.0	2246.8	2367.4	2481.6	2583.9	2671.5	2742.8	2791.2
32.5°	1662.3	1804.8	1960.0	2104.4	2267.8	2428.6	2593.0	2749.2	2898.1	3015.9	3089.9
35°	1569.1	1722.6	1894.3	2065.1	2261.5	2471.5	2693.5	2903.5	3119.1	3307.2	3455.2
37.5°	1455.9	1622.1	1810.3	2008.5	2234.1	2486.1	2765.6	3051.5	3326.4	3611.4	3819.6
40°	1337.1	1499.7	1695.2	1921.7	2182.0	2478.8	2821.3	3192.2	3590.4	3957.5	4274.5
42.5°	1235.8	1394.7	1599.3	1823.0	2103.4	2451.4	2858.8	3318.2	3808.7	4284.5	4705.6
45°	1136.2	1306.1	1512.5	1749.1	2055.0	2440.5	2907.2	3427.8	3987.7	4552.1	5089.2
47.5°	1057.7	1225.7	1434.0	1687.9	2015.8	2434.1	2952.9	3530.1	4133.8	4751.2	5387.9
50°	982.8	1143.5	1346.3	1613.9	1974.7	2424.0	2980.3	3611.4	4248.0	4907.4	5599.8
52.5°	906.0	1073.2	1270.5	1529.9	1920.8	2403.9	2988.5	3675.3	4365.8	5057.2	5797.9
55°	828.4	995.6	1192.8	1461.4	1847.7	2364.7	2982.1	3721.9	4489.1	5215.2	5978.8
57.5°	733.4	897.8	1104.2	1374.6	1753.6	2286.1	2951.0	3742.0	4565.8	5363.2	6160.5
60°	626.6	781.8	977.3	1253.1	1638.6	2172.9	2881.6	3713.7	4600.5	5460.9	6353.3
62.5°	492.3	627.5	807.4	1081.4	1471.4	2009.4	2730.0	3588.6	4516.5	5436.3	6436.4
63°	462.2	592.8	778.2	1035.7	1422.1	1952.7	2685.2	3545.6	4479.1	5413.4	6426.3
65°	352.6	449.4	602.8	833.0	1202.0	1691.5	2449.6	3302.7	4243.4	5186.0	6268.3
67.5°	260.3	310.5	404.6	559.0	845.8	1316.1	2007.5	2852.4	3742.9	4628.9	5730.4
70°	215.6	234.7	278.6	358.0	523.3	873.2	1418.4	2171.0	3008.6	3771.2	4765.9
72.5°	192.7	206.4	226.5	262.1	330.6	512.4	922.5	1409.3	2095.2	2754.7	3594.9
75°	172.6	181.8	198.2	219.2	250.3	320.6	487.7	835.7	1280.5	1855.9	2466.0
77.5°	151.6	160.7	177.2	193.6	213.7	243.9	302.3	475.9	766.3	1083.2	1513.4
80°	131.5	136.1	149.8	173.5	188.2	212.8	232.0	297.8	417.4	567.2	806.5
82.5°	108.7	109.6	118.7	137.0	155.3	164.4	169.9	187.2	240.2	299.6	395.5
85°	77.6	74.0	79.5	86.8	101.4	93.2	99.6	105.0	127.9	154.4	283.1
87.5°	34.7	27.4	32.0	35.6	32.0	21.9	32.0	26.5	32.9	64.8	73.1
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	0°
2.5°	1512.5	1507.0	1507.0	1506.1	1507.0	1505.2	1501.5	1501.5	1504.3	1503.4	1503.4	2.5°
5°	1544.5	1537.2	1535.3	1534.4	1534.4	1529.9	1524.4	1521.6	1520.7	1517.1	1514.3	5°
7.5°	1586.5	1581.9	1584.7	1579.2	1577.4	1576.4	1569.1	1563.7	1555.4	1551.8	1538.1	7.5°
10°	1621.2	1618.5	1625.8	1624.9	1625.8	1625.8	1615.7	1610.2	1598.4	1592.0	1574.6	10°
12.5°	1651.3	1653.2	1666.9	1666.9	1669.6	1673.3	1667.8	1655.9	1651.3	1644.9	1626.7	12.5°
15°	1728.1	1735.4	1745.4	1761.9	1766.4	1767.3	1771.9	1761.9	1750.0	1733.5	1711.6	15°
17.5°	1832.2	1846.8	1880.6	1904.3	1908.9	1913.5	1910.7	1908.9	1887.0	1873.3	1850.4	17.5°
20°	1962.8	1998.4	2045.9	2078.8	2093.4	2095.2	2113.5	2100.7	2080.6	2053.2	2020.3	20°
22.5°	2108.9	2168.3	2228.6	2277.0	2305.3	2318.1	2337.3	2319.0	2292.5	2276.1	2232.2	22.5°
25°	2308.9	2373.8	2443.2	2481.6	2553.7	2574.7	2585.7	2580.2	2552.8	2564.7	2524.5	25°
27.5°	2583.0	2638.7	2736.4	2784.8	2852.4	2891.7	2883.4	2929.1	2937.3	2965.6	2970.2	27.5°
30°	2881.6	2973.9	3105.4	3203.1	3306.3	3373.0	3426.0	3466.2	3512.7	3591.3	3638.8	30°
32.5°	3204.0	3337.4	3505.4	3712.8	3932.0	4111.0	4312.8	4347.5	4451.7	4421.5	4401.4	32.5°
35°	3563.0	3731.0	3946.6	4218.8	4537.5	4833.4	5028.0	5125.7	5166.8	5189.7	5050.8	35°
37.5°	4043.4	4270.8	4511.0	4807.9	5051.7	5328.5	5552.3	5795.2	5906.6	5853.7	5587.9	37.5°
40°	4575.9	4788.7	5113.8	5356.8	5644.5	6100.3	6403.5	6695.8	6787.1	6610.8	6194.3	40°
42.5°	5110.2	5402.5	5755.0	6100.3	6430.9	6843.7	7245.6	7534.2	7634.7	7333.3	6839.2	42.5°
45°	5586.1	5960.5	6375.2	6729.6	7191.7	7731.5	8223.8	8455.8	8437.5	7953.5	7397.2	45°
47.5°	6000.7	6486.6	6954.2	7431.9	7897.7	8506.9	8994.7	9261.4	9072.3	8563.6	7933.4	47.5°
50°	6343.2	6930.5	7495.0	8043.9	8615.6	9263.2	9733.6	9980.2	9692.5	9048.6	8344.4	50°
52.5°	6603.5	7331.5	7981.8	8595.5	9278.7	9978.4	10396.7	10545.5	10097.1	9423.9	8652.2	52.5°
55°	6849.2	7672.1	8391.9	9088.7	9939.1	10566.6	10958.4	10931.0	10351.9	9587.4	8844.9	55°
57.5°	7034.6	7962.6	8728.9	9522.6	10438.7	11109.1	11335.6	11154.7	10457.9	9635.8	8900.6	57.5°
60°	7268.4	8189.1	9028.5	9914.4	10913.6	11480.8	11511.0	11186.7	10427.7	9544.5	8822.1	60°
62.5°	7418.2	8330.7	9219.4	10182.9	11275.3	11690.0	11474.4	11048.8	10254.2	9318.9	8642.1	62.5°
63°	7432.8	8344.4	9234.9	10209.4	11326.5	11699.1	11440.6	10986.7	10203.0	9256.8	8594.6	63°
65°	7367.1	8305.1	9163.6	10161.9	11339.2	11591.3	11193.1	10731.9	9920.8	8939.9	8315.1	65°
67.5°	6907.7	7883.1	8702.4	9638.6	10846.0	10985.8	10586.6	10085.2	9323.5	8256.7	7704.1	67.5°
70°	6084.7	7011.8	7592.7	8462.2	9524.4	9691.6	9334.4	8946.3	8269.5	7378.0	6919.5	70°
72.5°	4902.0	5812.6	6161.5	6827.3	7671.2	7634.7	7383.5	7335.1	6978.9	6230.9	5955.0	72.5°
75°	3664.4	4531.1	4678.2	4949.4	5420.7	5408.9	5467.3	5675.6	5853.7	5411.6	5058.1	75°
77.5°	2416.7	3278.9	3370.3	3686.3	3816.9	4174.9	4595.1	5118.4	5377.8	5197.0	4763.1	77.5°
80°	1337.1	2243.2	2224.9	2348.2	2579.3	3099.9	3736.5	4513.8	5032.6	4902.9	4427.9	80°
82.5°	695.1	1417.5	1396.5	1418.4	1633.1	2070.6	2554.6	3190.3	3726.5	3738.3	3578.5	82.5°
85°	517.0	1017.5	1077.8	1127.1	1269.6	1422.1	1510.7	1714.4	2008.5	2282.5	2380.2	85°
87.5°	190.0	611.0	760.8	817.4	821.1	801.9	653.0	718.8	654.0	773.6	1080.5	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°
1510.7	1510.7	1510.7	1510.7	1510.7	1510.7	1510.7
1505.2	1505.2	1504.3	1506.1	1507.0	1509.8	1508.9
1511.6	1508.9	1506.1	1504.3	1502.5	1503.4	1501.5
1528.0	1518.9	1511.6	1505.2	1499.7	1498.8	1493.3
1564.6	1548.1	1534.4	1524.4	1513.4	1507.9	1497.9
1611.2	1592.9	1575.5	1560.9	1548.1	1540.8	1533.5
1692.4	1666.0	1644.9	1629.4	1616.6	1608.4	1601.1
1813.0	1780.1	1748.2	1718.0	1714.4	1695.2	1695.2
1979.2	1934.5	1893.4	1867.8	1855.9	1830.4	1830.4
2209.4	2165.6	2104.4	2073.3	2076.0	2054.1	2064.2
2507.1	2470.6	2407.6	2394.8	2394.8	2371.1	2335.4
2953.8	2941.0	2871.6	2888.9	2852.4	2763.8	2667.9
3616.9	3616.9	3482.6	3385.8	3301.8	3163.8	2994.9
4280.9	4194.1	3988.6	3824.2	3649.7	3438.8	3221.4
4841.7	4610.6	4402.3	4201.4	3939.3	3712.8	3407.7
5314.8	5095.6	4857.2	4551.2	4243.4	3927.4	3535.6
5901.2	5634.5	5276.4	4891.9	4513.8	4079.0	3625.1
6437.3	6103.0	5650.9	5164.1	4682.7	4197.8	3668.0
6941.5	6510.4	5952.3	5367.8	4819.7	4270.8	3686.3
7416.4	6838.3	6188.9	5513.0	4913.8	4310.1	3681.7
7729.7	7078.5	6337.7	5600.7	4970.5	4323.8	3668.9
7926.1	7225.5	6425.4	5649.1	4998.8	4326.5	3668.0
8036.6	7308.6	6472.9	5682.9	5029.8	4343.0	3689.9
8122.4	7374.4	6525.9	5740.4	5103.8	4419.7	3778.5
8203.7	7547.0	6663.8	5846.4	5232.6	4563.1	3973.1
8237.5	7874.9	6944.2	6041.8	5412.5	4793.3	4276.3
8234.8	7937.0	7025.5	6095.7	5460.0	4854.5	4353.9
8135.2	8134.3	7395.4	6353.3	5681.0	5137.6	4678.2
7840.2	8232.9	7804.6	6693.0	6024.5	5604.3	5165.9
7373.5	8113.3	7860.3	6782.5	6268.3	6032.7	5491.1
6569.7	7541.5	7338.8	6400.8	6185.2	6116.7	5499.3
5313.9	6062.8	5976.1	5468.2	5547.7	5688.3	4912.0
4280.9	4257.1	4244.3	4059.8	4397.8	4683.7	3651.6
3575.8	2945.6	2735.5	2664.2	3221.4	3440.6	2266.0
3342.9	2646.0	2122.6	2033.1	2414.0	2530.9	1366.4
2554.6	2569.3	2224.0	1906.2	1877.8	1718.9	1001.0
1250.4	1271.4	1343.5	1226.6	1052.2	886.9	315.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)