

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: P146073

Luminaire Tested: **LDRL-SLR-F06-E-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146073
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-F06-E-8030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11259.7 lumens
Efficiency: N/A
Efficacy: 71.9 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

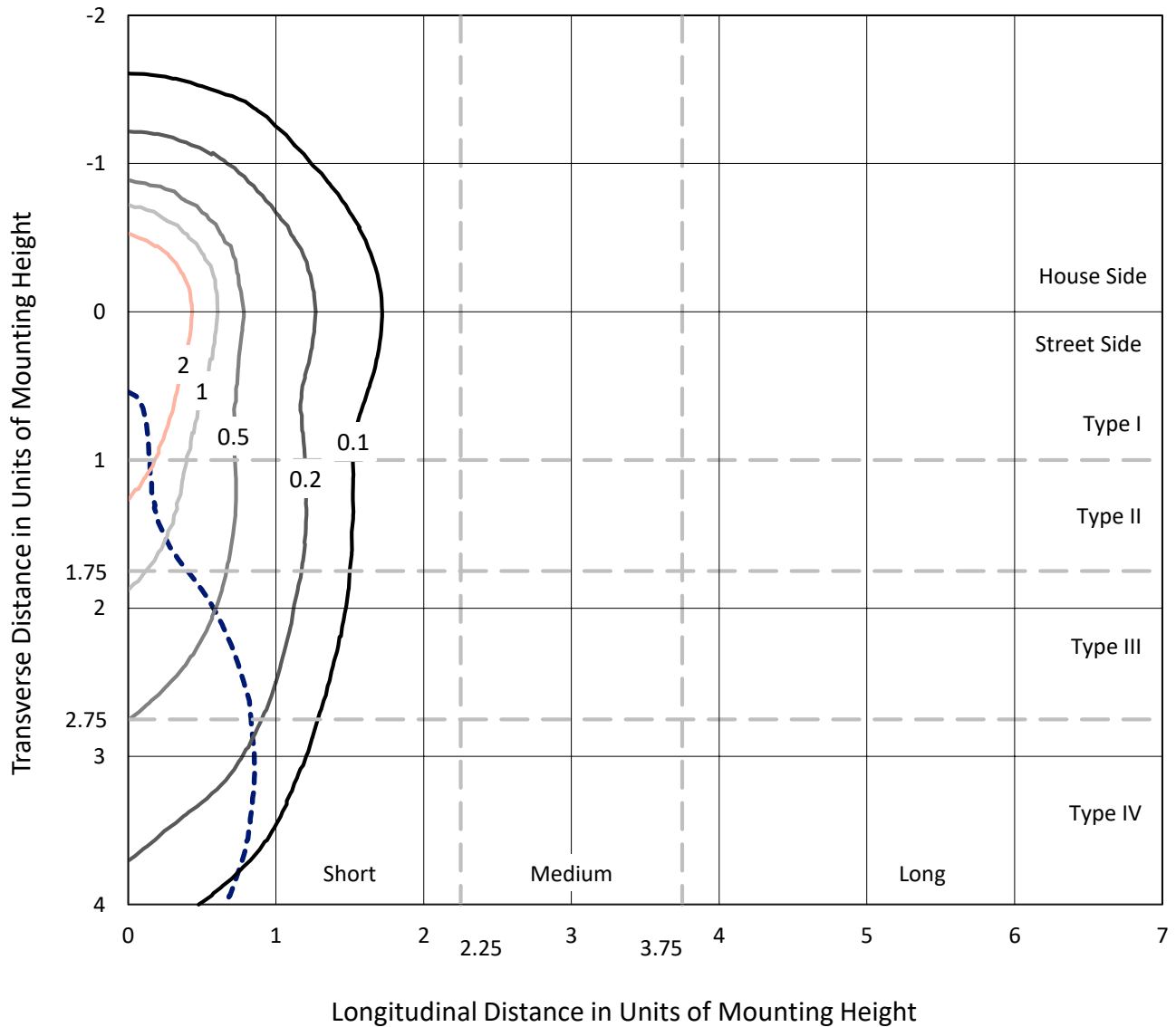
Input Watts (W): 156.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

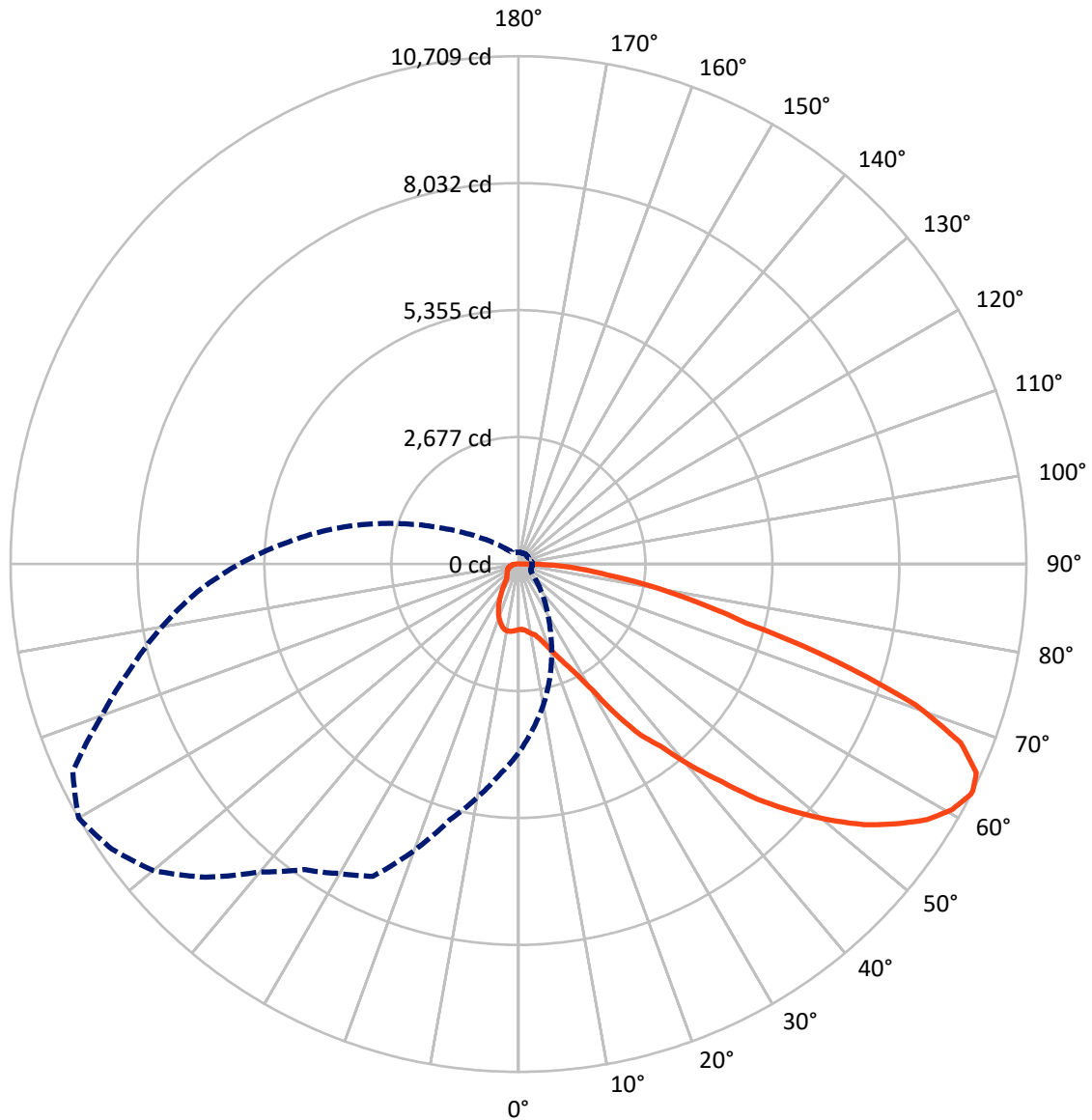
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	2357.0	0.0	2357.0
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	8902.7	0.0	8902.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	11259.7	0.0	11259.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.8	1.2
10°-20°	423.9	3.8
20°-30°	749.6	6.7
30°-40°	1183.4	10.5
40°-50°	1740.2	15.5
50°-60°	2292.3	20.4
60°-70°	2555.0	22.7
70°-80°	1678.7	14.9
80°-90°	500.6	4.4
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11259.7	100.0
0°-180°	11259.7	100.0



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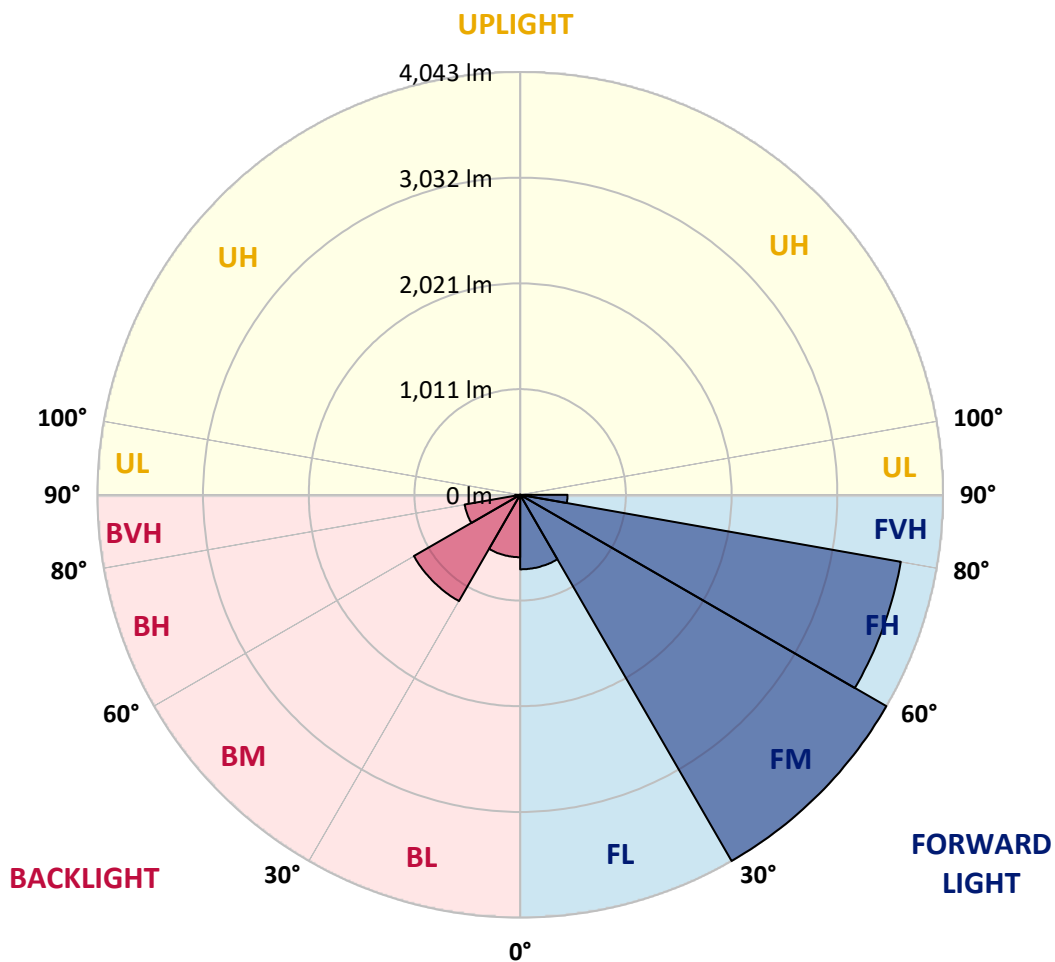
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	712.7	6.3			
FM	(30°-60°)	4042.5	35.9			
FH	(60°-80°)	3695.1	32.8			G2/5000
FVH	(80°-90°)	452.4	4.0			G3/500
BL	(0°-30°)	596.7	5.3	B2/1000		
BM	(30°-60°)	1173.5	10.4	B2/2500		
BH	(60°-80°)	538.7	4.8	B2/1000		G2/1000
BVH	(80°-90°)	48.2	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°	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9
2.5°	1381.2	1383.7	1383.7	1381.2	1383.7	1382.9	1382.9	1385.4	1386.2	1390.4	1387.9
5°	1374.5	1375.4	1376.2	1374.5	1375.4	1375.4	1377.0	1379.5	1380.4	1385.4	1382.9
7.5°	1367.0	1368.7	1365.3	1366.2	1368.7	1372.0	1372.0	1375.4	1381.2	1383.7	1382.9
10°	1371.2	1369.5	1367.0	1366.2	1367.8	1368.7	1370.3	1376.2	1381.2	1383.7	1387.9
12.5°	1403.8	1398.8	1396.3	1395.4	1396.3	1394.6	1400.4	1402.1	1403.8	1407.1	1405.5
15°	1465.7	1459.0	1454.8	1450.6	1459.8	1455.6	1455.6	1450.6	1442.2	1429.7	1413.8
17.5°	1551.8	1544.2	1540.9	1539.2	1540.1	1532.5	1517.5	1493.2	1464.0	1430.5	1399.6
20°	1675.5	1687.2	1682.2	1659.6	1651.3	1617.8	1570.2	1520.0	1469.0	1415.5	1364.5
22.5°	1889.5	1882.9	1860.3	1804.3	1754.1	1678.9	1593.6	1512.5	1437.2	1359.5	1292.6
25°	2137.9	2081.8	2018.3	1907.9	1792.6	1668.8	1545.9	1449.8	1349.4	1264.2	1183.9
27.5°	2442.2	2321.0	2158.8	1979.0	1806.8	1642.1	1496.6	1369.5	1255.0	1163.8	1074.4
30°	2741.5	2539.2	2313.4	2075.2	1842.7	1620.3	1428.0	1280.9	1148.8	1031.7	941.4
32.5°	2948.9	2703.9	2423.0	2128.7	1846.1	1585.2	1352.8	1177.2	1028.4	910.5	801.8
35°	3119.4	2813.4	2461.4	2120.3	1792.6	1503.3	1244.9	1050.1	892.1	770.0	674.7
37.5°	3236.5	2869.4	2458.9	2071.8	1697.2	1372.8	1121.2	923.0	775.9	662.2	574.4
40°	3318.4	2887.0	2426.3	1989.0	1587.7	1246.6	989.1	808.5	679.7	591.1	527.6
42.5°	3357.7	2875.3	2377.8	1910.4	1479.0	1144.6	889.6	731.6	627.1	560.2	513.4
45°	3374.4	2846.9	2323.5	1833.5	1390.4	1056.8	838.6	708.2	626.2	568.5	517.5
47.5°	3370.2	2815.9	2275.0	1770.0	1337.7	1033.4	848.6	739.9	657.2	585.3	520.0
50°	3358.5	2787.5	2244.0	1746.6	1336.9	1068.5	904.6	793.4	693.1	600.3	517.5
52.5°	3357.7	2785.0	2260.8	1774.2	1385.4	1147.9	989.1	855.3	728.2	617.0	518.4
55°	3377.8	2830.1	2331.8	1848.6	1502.4	1259.1	1084.4	921.4	767.5	628.7	515.9
57.5°	3458.9	2943.0	2466.4	2015.0	1652.9	1394.6	1176.4	970.7	782.6	625.4	504.2
60°	3637.0	3141.2	2673.8	2249.9	1846.1	1518.3	1230.7	987.4	775.9	605.3	479.1
62.5°	3914.5	3427.9	2958.1	2480.7	2017.5	1592.7	1243.3	974.0	749.1	571.9	448.1
63°	3985.6	3494.0	3015.8	2528.3	2046.7	1600.3	1242.4	969.0	741.6	563.5	440.6
65°	4282.4	3777.4	3247.3	2685.5	2125.3	1615.3	1223.2	937.2	708.2	524.2	406.3
67.5°	4728.9	4090.1	3477.3	2831.8	2168.8	1588.6	1163.0	858.7	622.0	455.7	355.3
70°	5026.5	4297.5	3614.4	2879.5	2117.8	1466.5	1025.0	719.9	508.3	375.4	303.5
72.5°	5034.1	4111.9	3428.8	2632.0	1828.5	1209.8	802.6	544.3	395.5	305.2	261.7
75°	4496.5	3474.8	2802.5	2161.3	1407.1	855.3	564.4	397.1	303.5	251.7	226.6
77.5°	3342.7	2535.0	2022.5	1453.9	913.8	554.3	393.0	294.3	240.8	208.2	189.8
80°	2074.3	1584.4	1227.4	869.5	547.6	368.7	287.6	234.1	202.3	173.9	158.9
82.5°	1250.8	887.1	693.1	525.1	350.3	265.9	221.6	197.3	171.4	146.3	134.6
85°	916.3	634.6	464.9	324.4	216.5	175.6	155.5	150.5	132.9	112.9	106.2
87.5°	288.4	302.7	314.4	191.5	104.5	79.4	67.7	79.4	76.1	53.5	58.5
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9
2.5°	1392.1	1395.4	1392.9	1392.9	1391.2	1390.4	1396.3	1394.6	1396.3	1395.4	1397.1
5°	1387.1	1389.6	1387.9	1389.6	1387.9	1387.9	1395.4	1395.4	1398.8	1400.4	1404.6
7.5°	1388.7	1389.6	1388.7	1391.2	1389.6	1387.9	1392.1	1394.6	1400.4	1405.5	1409.6
10°	1394.6	1397.1	1396.3	1396.3	1391.2	1387.9	1390.4	1392.1	1397.9	1400.4	1405.5
12.5°	1408.8	1405.5	1398.8	1394.6	1382.9	1376.2	1372.8	1371.2	1375.4	1378.7	1381.2
15°	1405.5	1387.1	1372.0	1359.5	1341.9	1331.0	1322.7	1321.8	1322.7	1323.5	1326.0
17.5°	1371.2	1346.1	1316.0	1300.1	1280.0	1268.3	1262.5	1258.3	1257.5	1259.1	1263.3
20°	1321.8	1285.1	1251.6	1224.0	1202.3	1183.9	1188.1	1178.9	1183.1	1185.6	1193.1
22.5°	1246.6	1195.6	1157.1	1123.7	1097.8	1078.5	1078.5	1070.2	1071.9	1079.4	1089.4
25°	1124.5	1076.9	1021.7	998.3	969.0	955.6	953.1	951.5	958.2	967.3	973.2
27.5°	1014.2	949.0	894.6	863.7	832.7	836.1	819.4	829.4	836.9	844.4	851.1
30°	865.3	811.8	762.5	731.6	694.8	695.6	698.1	699.8	706.5	716.5	729.9
32.5°	722.4	664.7	618.7	585.3	563.5	556.8	547.6	562.7	571.0	581.1	594.5
35°	604.5	544.3	505.8	476.6	464.0	454.8	452.3	450.6	458.2	463.2	474.1
37.5°	520.0	479.1	450.6	429.7	418.0	408.0	405.5	403.8	403.0	401.3	408.0
40°	485.8	453.2	428.9	409.7	398.8	393.0	390.5	387.1	383.8	379.6	378.7
42.5°	475.7	440.6	412.2	393.0	384.6	383.8	383.8	382.1	378.7	372.9	368.7
45°	471.6	428.9	396.3	381.3	375.4	376.2	376.2	376.2	373.7	367.9	361.2
47.5°	464.0	414.7	381.3	368.7	366.2	367.9	369.5	369.5	367.9	362.9	355.3
50°	449.8	393.0	357.8	346.1	345.3	346.1	346.1	347.8	346.1	342.0	335.3
52.5°	438.9	376.2	340.3	331.1	331.1	330.3	329.4	329.4	328.6	325.2	320.2
55°	428.9	365.4	332.8	325.2	326.9	326.9	325.2	324.4	321.1	316.9	311.9
57.5°	414.7	353.7	325.2	320.2	321.9	321.1	320.2	319.4	316.0	311.0	304.3
60°	389.6	332.8	310.2	306.8	309.4	310.2	313.5	314.4	312.7	306.8	297.6
62.5°	362.0	306.8	290.1	287.6	290.1	292.6	295.1	293.5	293.5	287.6	279.3
63°	352.8	302.7	284.3	284.3	286.8	289.3	291.0	289.3	290.1	283.4	275.1
65°	331.9	287.6	273.4	274.2	276.7	278.4	279.3	279.3	278.4	273.4	265.9
67.5°	296.8	265.9	257.5	261.7	265.0	265.9	265.9	267.5	265.9	262.5	255.8
70°	265.0	245.0	239.1	244.1	245.8	246.6	246.6	246.6	245.0	241.6	235.8
72.5°	240.8	230.8	229.9	229.1	229.9	227.4	227.4	225.7	221.6	219.1	214.0
75°	214.0	209.0	209.9	209.0	207.3	206.5	202.3	200.7	195.6	192.3	185.6
77.5°	183.9	184.8	183.9	184.8	186.4	187.3	181.4	177.2	173.1	169.7	166.4
80°	153.0	154.7	153.0	154.7	155.5	155.5	149.7	143.0	139.6	142.1	143.0
82.5°	136.3	136.3	129.6	131.3	129.6	127.1	122.9	120.4	117.9	116.2	120.4
85°	107.9	108.7	110.4	108.7	105.3	102.8	98.7	95.3	92.8	95.3	101.2
87.5°	64.4	69.4	66.9	66.9	66.1	66.1	62.7	61.0	58.5	68.6	73.6
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°	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9
2.5°	1396.3	1398.8	1399.6	1398.8	1399.6	1401.3	1394.6	1401.3	1402.1	1397.1	1398.8
5°	1408.0	1412.1	1418.0	1418.0	1422.2	1424.7	1421.3	1430.5	1432.2	1431.4	1435.6
7.5°	1416.3	1422.2	1429.7	1433.9	1441.4	1444.8	1447.3	1455.6	1457.3	1460.6	1464.0
10°	1415.5	1423.8	1430.5	1442.2	1451.4	1458.1	1463.1	1472.3	1475.7	1480.7	1483.2
12.5°	1391.2	1400.4	1413.0	1429.7	1446.4	1457.3	1470.7	1484.0	1489.1	1495.8	1499.9
15°	1336.9	1344.4	1362.0	1383.7	1406.3	1433.9	1453.1	1474.0	1483.2	1489.9	1495.8
17.5°	1265.8	1272.5	1288.4	1307.6	1337.7	1364.5	1393.7	1425.5	1441.4	1448.9	1451.4
20°	1199.8	1209.8	1214.0	1236.6	1246.6	1273.4	1298.4	1333.6	1353.6	1367.0	1375.4
22.5°	1096.1	1101.1	1122.9	1132.1	1139.6	1156.3	1187.2	1218.2	1244.9	1266.7	1273.4
25°	981.6	994.9	1006.6	1014.2	1031.7	1032.6	1057.6	1079.4	1112.8	1133.7	1150.4
27.5°	855.3	875.4	882.1	887.1	900.5	916.3	925.5	947.3	966.5	990.8	1020.9
30°	728.2	747.5	760.8	768.4	780.9	796.0	802.6	816.9	841.9	868.7	892.1
32.5°	609.5	629.6	636.3	660.5	663.8	678.1	683.1	705.7	719.9	742.4	770.0
35°	493.3	514.2	534.3	547.6	562.7	561.8	575.2	596.1	608.7	632.1	650.5
37.5°	413.9	426.4	440.6	455.7	472.4	484.9	497.5	506.7	516.7	532.6	549.3
40°	378.7	382.1	387.9	397.1	408.8	418.0	427.2	434.8	442.3	454.8	465.7
42.5°	364.5	362.0	362.0	360.4	364.5	369.5	377.1	379.6	391.3	398.8	403.0
45°	354.5	348.6	344.5	339.4	337.8	339.4	343.6	349.5	357.0	359.5	359.5
47.5°	348.6	339.4	332.8	325.2	321.1	321.1	323.6	327.7	331.9	332.8	331.9
50°	328.6	319.4	311.0	304.3	301.0	301.0	301.8	307.7	308.5	306.8	307.7
52.5°	313.5	304.3	296.0	290.1	285.9	286.8	289.3	291.8	294.3	292.6	291.0
55°	304.3	293.5	285.9	279.3	274.2	275.9	278.4	281.8	285.9	283.4	280.9
57.5°	296.0	286.8	277.6	270.9	265.0	266.7	269.2	274.2	279.3	274.2	270.9
60°	288.4	279.3	270.1	263.4	256.7	258.3	261.7	266.7	270.9	264.2	260.0
62.5°	270.1	261.7	255.0	251.7	247.5	250.0	252.5	258.3	256.7	250.0	245.0
63°	266.7	258.3	252.5	249.2	245.8	249.2	250.0	255.8	253.3	246.6	242.5
65°	256.7	250.0	244.1	240.8	237.4	239.1	239.1	241.6	238.3	233.3	229.9
67.5°	247.5	240.0	234.1	227.4	224.1	222.4	221.6	220.7	218.2	215.7	214.9
70°	227.4	222.4	217.4	211.5	206.5	203.2	201.5	199.8	198.2	197.3	196.5
72.5°	205.7	201.5	196.5	193.1	189.0	186.4	182.3	181.4	179.8	178.1	177.2
75°	182.3	177.2	175.6	172.2	169.7	168.1	164.7	163.9	162.2	159.7	158.9
77.5°	161.4	159.7	157.2	156.3	152.2	149.7	148.0	147.2	145.5	143.8	142.1
80°	143.8	143.0	141.3	140.5	138.0	134.6	132.9	133.8	131.3	130.4	127.9
82.5°	129.6	130.4	130.4	127.9	125.4	121.2	119.6	122.1	120.4	117.1	113.7
85°	110.4	109.5	110.4	109.5	104.5	100.3	98.7	100.3	99.5	94.5	93.6
87.5°	78.6	77.8	76.1	81.1	74.4	60.2	61.9	70.2	67.7	65.2	63.5
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9
2.5°	1402.1	1399.6	1401.3	1402.1	1399.6	1405.5	1399.6	1400.4	1402.1	1397.1	1396.3
5°	1438.9	1438.9	1445.6	1446.4	1445.6	1453.1	1452.3	1453.1	1451.4	1450.6	1447.3
7.5°	1469.0	1472.3	1477.4	1484.9	1487.4	1493.2	1494.9	1495.8	1499.1	1502.4	1500.8
10°	1490.7	1499.9	1504.1	1511.6	1519.2	1523.3	1527.5	1534.2	1536.7	1539.2	1535.9
12.5°	1505.8	1516.7	1523.3	1532.5	1541.7	1548.4	1555.9	1564.3	1572.7	1575.2	1571.0
15°	1498.3	1510.8	1520.8	1530.9	1545.1	1557.6	1571.8	1586.9	1597.8	1601.9	1596.9
17.5°	1451.4	1464.0	1479.0	1494.1	1509.1	1532.5	1552.6	1577.7	1595.2	1607.8	1609.5
20°	1387.1	1394.6	1416.3	1431.4	1455.6	1483.2	1513.3	1542.6	1562.6	1585.2	1598.6
22.5°	1291.7	1306.8	1331.0	1357.0	1381.2	1417.2	1448.9	1487.4	1521.7	1552.6	1581.9
25°	1175.5	1196.4	1224.9	1260.8	1292.6	1331.0	1377.0	1419.7	1477.4	1525.9	1588.6
27.5°	1050.1	1088.6	1127.9	1165.5	1200.6	1244.1	1291.7	1339.4	1405.5	1483.2	1565.1
30°	931.4	963.2	1012.5	1056.0	1096.9	1150.4	1199.8	1252.5	1315.2	1407.1	1499.9
32.5°	807.7	833.6	872.0	925.5	973.2	1035.9	1079.4	1142.1	1214.8	1311.8	1417.2
35°	679.7	715.7	746.6	783.4	819.4	882.1	947.3	1016.7	1100.3	1204.0	1319.3
37.5°	566.9	589.4	604.5	642.1	673.9	727.4	803.5	887.1	979.1	1084.4	1208.1
40°	473.2	487.4	504.2	529.2	556.0	604.5	674.7	768.4	864.5	969.9	1093.6
42.5°	408.8	418.0	419.7	438.9	464.0	511.7	567.7	653.8	760.0	870.4	994.1
45°	364.5	364.5	363.7	372.1	392.1	433.1	484.1	561.0	662.2	777.6	906.3
47.5°	333.6	336.1	335.3	338.6	352.0	382.1	428.1	493.3	585.3	698.1	827.7
50°	310.2	313.5	314.4	315.2	320.2	345.3	384.6	437.3	519.2	627.1	757.5
52.5°	291.8	292.6	292.6	291.8	293.5	307.7	340.3	388.8	464.9	561.8	687.3
55°	281.8	282.6	282.6	282.6	282.6	291.8	315.2	354.5	415.5	506.7	620.4
57.5°	270.1	270.1	271.7	271.7	271.7	275.1	291.8	324.4	371.2	444.0	545.1
60°	260.0	262.5	265.9	266.7	265.9	265.9	274.2	296.0	326.9	379.6	464.9
62.5°	245.0	248.3	252.5	254.2	255.0	253.3	257.5	266.7	285.1	312.7	370.4
63°	242.5	245.8	249.2	250.8	251.7	250.0	253.3	260.9	275.9	298.5	350.3
65°	231.6	235.8	236.6	237.4	236.6	235.8	234.9	234.9	239.1	247.5	275.1
67.5°	216.5	219.1	219.1	220.7	216.5	214.9	213.2	211.5	209.0	209.9	219.9
70°	199.0	200.7	199.8	199.0	197.3	194.8	193.1	190.6	185.6	183.9	189.0
72.5°	178.9	180.6	180.6	180.6	177.2	175.6	173.9	172.2	170.6	172.2	173.9
75°	160.5	160.5	162.2	161.4	158.9	157.2	156.3	155.5	155.5	155.5	154.7
77.5°	143.0	142.1	142.1	139.6	138.0	137.1	138.8	139.6	138.8	137.1	136.3
80°	127.9	123.7	119.6	116.2	115.4	117.1	118.7	123.7	121.2	121.2	119.6
82.5°	108.7	99.5	93.6	94.5	92.0	92.8	94.5	100.3	98.7	99.5	102.8
85°	87.0	78.6	69.4	71.1	71.1	69.4	73.6	75.2	76.9	81.1	77.8
87.5°	61.0	53.5	44.3	38.5	40.1	41.8	43.5	41.8	36.8	38.5	37.6
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°	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9
2.5°	1394.6	1395.4	1395.4	1389.6	1387.9	1389.6	1388.7	1388.7	1383.7	1384.6	1382.9
5°	1445.6	1447.3	1442.2	1438.1	1432.2	1431.4	1430.5	1427.2	1423.8	1417.2	1413.8
7.5°	1499.9	1492.4	1490.7	1483.2	1480.7	1474.0	1469.0	1464.0	1459.8	1456.5	1453.9
10°	1534.2	1528.4	1526.7	1513.3	1509.1	1500.8	1495.8	1489.9	1484.9	1479.9	1479.0
12.5°	1565.1	1555.1	1549.3	1530.9	1522.5	1513.3	1509.1	1504.1	1502.4	1501.6	1504.9
15°	1589.4	1575.2	1564.3	1547.6	1540.9	1535.9	1536.7	1534.2	1544.2	1550.1	1561.0
17.5°	1605.3	1599.4	1596.9	1584.4	1588.6	1588.6	1600.3	1606.1	1624.5	1639.6	1654.6
20°	1613.6	1624.5	1645.4	1649.6	1659.6	1670.5	1688.1	1698.1	1717.3	1739.1	1760.0
22.5°	1621.2	1667.1	1709.8	1741.6	1764.1	1789.2	1801.8	1822.7	1836.0	1851.9	1883.7
25°	1663.0	1739.9	1815.1	1856.1	1909.6	1945.6	1974.0	1994.9	2018.3	2031.7	2067.6
27.5°	1651.3	1749.1	1849.4	1924.7	2008.3	2076.0	2136.2	2176.3	2206.4	2254.9	2285.0
30°	1597.8	1711.5	1832.7	1939.7	2056.8	2167.1	2271.6	2365.3	2445.5	2510.8	2555.1
32.5°	1521.7	1652.1	1794.2	1926.3	2076.0	2223.1	2373.6	2516.6	2652.9	2760.7	2828.5
35°	1436.4	1576.9	1734.0	1890.4	2070.1	2262.4	2465.6	2657.9	2855.2	3027.5	3162.9
37.5°	1332.7	1484.9	1657.1	1838.5	2045.1	2275.8	2531.7	2793.4	3045.0	3305.9	3496.5
40°	1224.0	1372.8	1551.8	1759.1	1997.4	2269.1	2582.7	2922.1	3286.6	3622.7	3912.9
42.5°	1131.2	1276.7	1464.0	1668.8	1925.5	2244.0	2616.9	3037.5	3486.5	3922.1	4307.5
45°	1040.1	1195.6	1384.6	1601.1	1881.2	2234.0	2661.3	3137.8	3650.3	4167.0	4658.7
47.5°	968.2	1122.0	1312.6	1545.1	1845.2	2228.2	2703.1	3231.5	3784.1	4349.3	4932.1
50°	899.6	1046.8	1232.4	1477.4	1807.6	2219.0	2728.1	3305.9	3888.6	4492.3	5126.0
52.5°	829.4	982.4	1163.0	1400.4	1758.3	2200.6	2735.7	3364.4	3996.5	4629.4	5307.5
55°	758.3	911.3	1091.9	1337.7	1691.4	2164.6	2729.8	3407.0	4109.3	4774.0	5473.0
57.5°	671.4	821.9	1010.8	1258.3	1605.3	2092.7	2701.4	3425.4	4179.6	4909.5	5639.4
60°	573.6	715.7	894.6	1147.1	1499.9	1989.0	2637.8	3399.5	4211.3	4998.9	5815.8
62.5°	450.6	574.4	739.1	989.9	1346.9	1839.4	2499.1	3285.0	4134.4	4976.4	5891.9
63°	423.1	542.6	712.3	948.1	1301.8	1787.5	2458.1	3245.7	4100.1	4955.5	5882.7
65°	322.7	411.4	551.8	762.5	1100.3	1548.4	2242.4	3023.3	3884.4	4747.3	5738.0
67.5°	238.3	284.3	370.4	511.7	774.2	1204.8	1837.7	2611.1	3426.3	4237.3	5245.6
70°	197.3	214.9	255.0	327.7	479.1	799.3	1298.4	1987.4	2754.1	3452.2	4362.7
72.5°	176.4	189.0	207.3	240.0	302.7	469.0	844.4	1290.1	1918.0	2521.6	3290.8
75°	158.0	166.4	181.4	200.7	229.1	293.5	446.5	765.0	1172.2	1698.9	2257.4
77.5°	138.8	147.2	162.2	177.2	195.6	223.2	276.7	435.6	701.5	991.6	1385.4
80°	120.4	124.6	137.1	158.9	172.2	194.8	212.4	272.6	382.1	519.2	738.3
82.5°	99.5	100.3	108.7	125.4	142.1	150.5	155.5	171.4	219.9	274.2	362.0
85°	71.1	67.7	72.7	79.4	92.8	85.3	91.1	96.1	117.1	141.3	259.2
87.5°	31.8	25.1	29.3	32.6	29.3	20.1	29.3	24.2	30.1	59.4	66.9
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	0°
2.5°	1384.6	1379.5	1379.5	1378.7	1379.5	1377.9	1374.5	1374.5	1377.0	1376.2	1376.2	2.5°
5°	1413.8	1407.1	1405.5	1404.6	1404.6	1400.4	1395.4	1392.9	1392.1	1388.7	1386.2	5°
7.5°	1452.3	1448.1	1450.6	1445.6	1443.9	1443.1	1436.4	1431.4	1423.8	1420.5	1408.0	7.5°
10°	1484.0	1481.5	1488.2	1487.4	1488.2	1488.2	1479.0	1474.0	1463.1	1457.3	1441.4	10°
12.5°	1511.6	1513.3	1525.9	1525.9	1528.4	1531.7	1526.7	1515.8	1511.6	1505.8	1489.1	12.5°
15°	1581.9	1588.6	1597.8	1612.8	1617.0	1617.8	1622.0	1612.8	1601.9	1586.9	1566.8	15°
17.5°	1677.2	1690.6	1721.5	1743.2	1747.4	1751.6	1749.1	1747.4	1727.3	1714.8	1693.9	17.5°
20°	1796.7	1829.3	1872.8	1902.9	1916.3	1918.0	1934.7	1923.0	1904.6	1879.5	1849.4	20°
22.5°	1930.5	1984.9	2040.0	2084.4	2110.3	2122.0	2139.5	2122.8	2098.6	2083.5	2043.4	22.5°
25°	2113.6	2173.0	2236.5	2271.6	2337.7	2356.9	2367.0	2361.9	2336.9	2347.7	2310.9	25°
27.5°	2364.4	2415.4	2504.9	2549.2	2611.1	2647.0	2639.5	2681.3	2688.8	2714.8	2718.9	27.5°
30°	2637.8	2722.3	2842.7	2932.1	3026.6	3087.7	3136.1	3172.9	3215.6	3287.5	3331.0	30°
32.5°	2933.0	3055.0	3208.9	3398.7	3599.3	3763.2	3948.0	3979.8	4075.1	4047.5	4029.1	32.5°
35°	3261.6	3415.4	3612.7	3861.9	4153.7	4424.5	4602.6	4692.1	4729.7	4750.6	4623.5	35°
37.5°	3701.3	3909.5	4129.4	4401.1	4624.4	4877.7	5082.5	5304.9	5406.9	5358.5	5115.2	37.5°
40°	4188.8	4383.6	4681.2	4903.6	5167.0	5584.2	5861.8	6129.3	6212.9	6051.6	5670.3	40°
42.5°	4677.9	4945.4	5268.2	5584.2	5886.9	6264.8	6632.6	6896.8	6988.8	6712.9	6260.6	42.5°
45°	5113.5	5456.3	5835.9	6160.3	6583.3	7077.4	7528.1	7740.5	7723.7	7280.6	6771.4	45°
47.5°	5493.1	5937.9	6365.9	6803.2	7229.6	7787.3	8233.7	8477.9	8304.8	7839.1	7262.2	47.5°
50°	5806.6	6344.2	6860.9	7363.4	7886.8	8479.6	8910.1	9135.9	8872.5	8283.1	7638.5	50°
52.5°	6044.9	6711.2	7306.5	7868.4	8493.8	9134.2	9517.1	9653.4	9242.9	8626.7	7920.2	52.5°
55°	6269.8	7023.1	7681.9	8319.9	9098.3	9672.6	10031.3	10006.2	9476.2	8776.4	8096.6	55°
57.5°	6439.5	7289.0	7990.4	8717.0	9555.6	10169.3	10376.6	10211.1	9573.1	8820.7	8147.6	57.5°
60°	6653.5	7496.3	8264.7	9075.7	9990.4	10509.6	10537.1	10240.3	9545.6	8737.1	8075.7	60°
62.5°	6790.7	7625.9	8439.4	9321.5	10321.4	10701.0	10503.7	10114.1	9386.7	8530.6	7911.0	62.5°
63°	6804.0	7638.5	8453.6	9345.7	10368.3	10709.4	10472.8	10057.2	9339.9	8473.7	7867.5	63°
65°	6743.8	7602.5	8388.4	9302.3	10380.0	10610.7	10246.2	9824.0	9081.5	8183.6	7611.7	65°
67.5°	6323.3	7216.2	7966.2	8823.2	9928.5	10056.4	9691.0	9232.0	8534.7	7558.2	7052.4	67.5°
70°	5570.0	6418.6	6950.4	7746.3	8718.7	8871.7	8544.8	8189.4	7569.9	6753.9	6334.2	70°
72.5°	4487.3	5320.8	5640.2	6249.7	7022.3	6988.8	6758.9	6714.6	6388.5	5703.8	5451.3	72.5°
75°	3354.4	4147.8	4282.4	4530.7	4962.2	4951.3	5004.8	5195.4	5358.5	4953.8	4630.2	75°
77.5°	2212.3	3001.5	3085.1	3374.4	3494.0	3821.7	4206.3	4685.4	4922.9	4757.3	4360.2	77.5°
80°	1224.0	2053.4	2036.7	2149.6	2361.1	2837.7	3420.4	4131.9	4606.8	4488.1	4053.3	80°
82.5°	636.3	1297.6	1278.4	1298.4	1494.9	1895.4	2338.5	2920.4	3411.2	3422.1	3275.8	82.5°
85°	473.2	931.4	986.6	1031.7	1162.2	1301.8	1382.9	1569.3	1838.5	2089.4	2178.8	85°
87.5°	173.9	559.3	696.5	748.3	751.6	734.1	597.8	658.0	598.6	708.2	989.1	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°
1382.9	1382.9	1382.9	1382.9	1382.9	1382.9	1382.9
1377.9	1377.9	1377.0	1378.7	1379.5	1382.0	1381.2
1383.7	1381.2	1378.7	1377.0	1375.4	1376.2	1374.5
1398.8	1390.4	1383.7	1377.9	1372.8	1372.0	1367.0
1432.2	1417.2	1404.6	1395.4	1385.4	1380.4	1371.2
1474.8	1458.1	1442.2	1428.9	1417.2	1410.5	1403.8
1549.3	1525.0	1505.8	1491.6	1479.9	1472.3	1465.7
1659.6	1629.5	1600.3	1572.7	1569.3	1551.8	1551.8
1811.8	1770.8	1733.2	1709.8	1698.9	1675.5	1675.5
2022.5	1982.4	1926.3	1897.9	1900.4	1880.3	1889.5
2295.0	2261.6	2203.9	2192.2	2192.2	2170.5	2137.9
2703.9	2692.2	2628.6	2644.5	2611.1	2530.0	2442.2
3310.9	3310.9	3188.0	3099.4	3022.4	2896.2	2741.5
3918.7	3839.3	3651.2	3500.7	3341.0	3147.9	2948.9
4432.1	4220.5	4029.9	3846.0	3606.0	3398.7	3119.4
4865.2	4664.5	4446.3	4166.2	3884.4	3595.2	3236.5
5401.9	5157.8	4830.0	4478.1	4131.9	3733.9	3318.4
5892.7	5586.7	5172.8	4727.2	4286.6	3842.6	3357.7
6354.2	5959.6	5448.8	4913.7	4412.0	3909.5	3374.4
6789.0	6259.8	5665.3	5046.6	4498.1	3945.5	3370.2
7075.8	6479.6	5801.6	5126.9	4550.0	3958.0	3358.5
7255.5	6614.2	5881.8	5171.2	4575.9	3960.5	3357.7
7356.7	6690.3	5925.3	5202.1	4604.3	3975.6	3377.8
7435.3	6750.5	5973.8	5254.8	4672.0	4045.8	3458.9
7509.7	6908.6	6100.1	5351.8	4789.9	4177.1	3637.0
7540.6	7208.7	6356.7	5530.7	4954.6	4387.8	3914.5
7538.1	7265.6	6431.1	5580.0	4998.1	4443.8	3985.6
7447.0	7446.2	6769.8	5815.8	5200.4	4703.0	4282.4
7176.9	7536.4	7144.3	6126.8	5514.8	5130.2	4728.9
6749.7	7426.9	7195.3	6208.7	5738.0	5522.3	5026.5
6013.9	6903.5	6717.9	5859.3	5662.0	5599.2	5034.1
4864.3	5549.9	5470.5	5005.6	5078.4	5207.1	4496.5
3918.7	3897.0	3885.3	3716.4	4025.7	4287.4	3342.7
3273.3	2696.4	2504.1	2438.9	2948.9	3149.5	2074.3
3060.1	2422.1	1943.1	1861.1	2209.8	2316.8	1250.8
2338.5	2351.9	2035.9	1744.9	1719.0	1573.5	916.3
1144.6	1163.8	1229.9	1122.9	963.2	811.8	288.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)