

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: P146065

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146065
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
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11117.5 lumens
Efficiency: N/A
Efficacy: 83.4 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

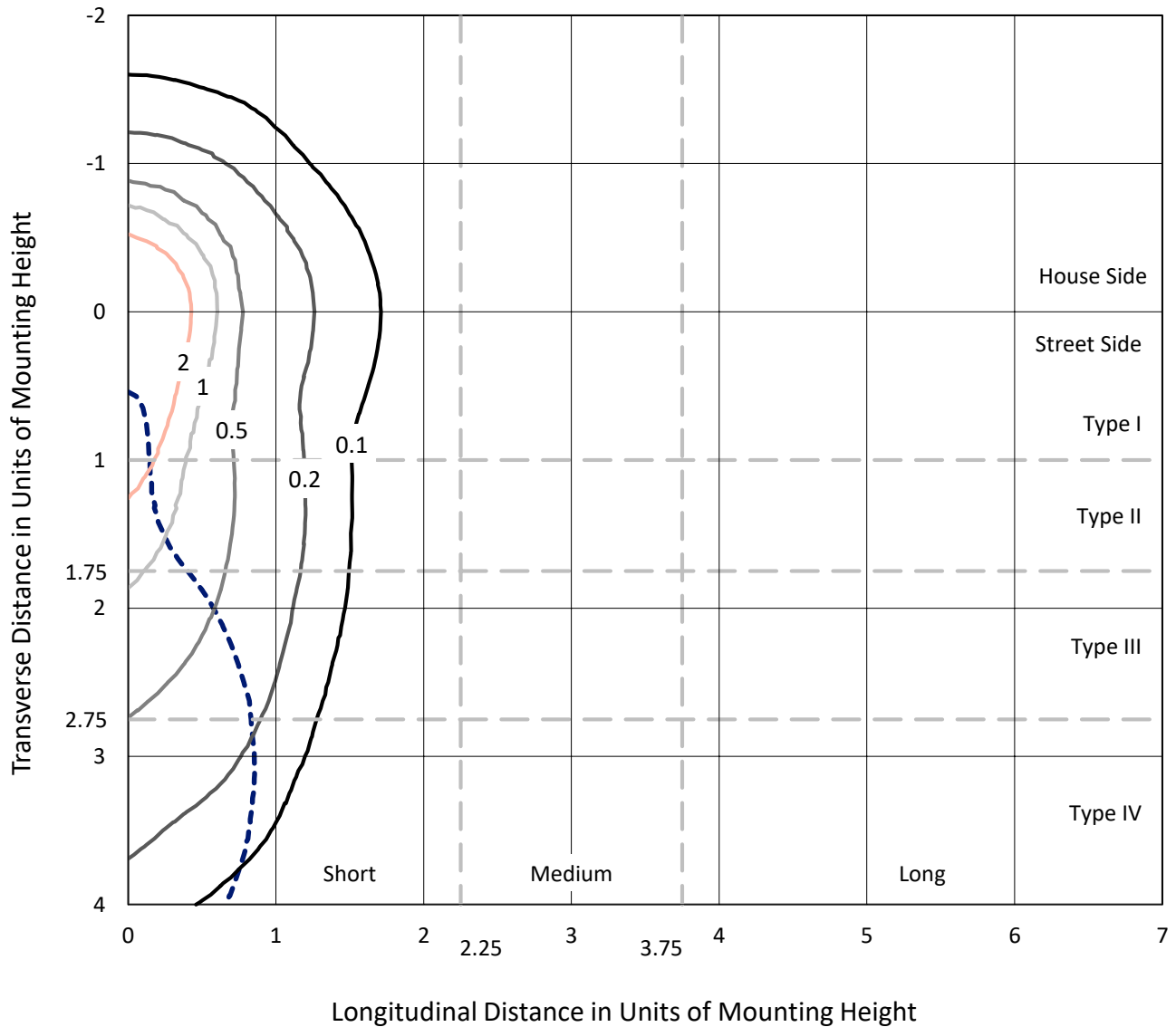
Input Watts (W): 133.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

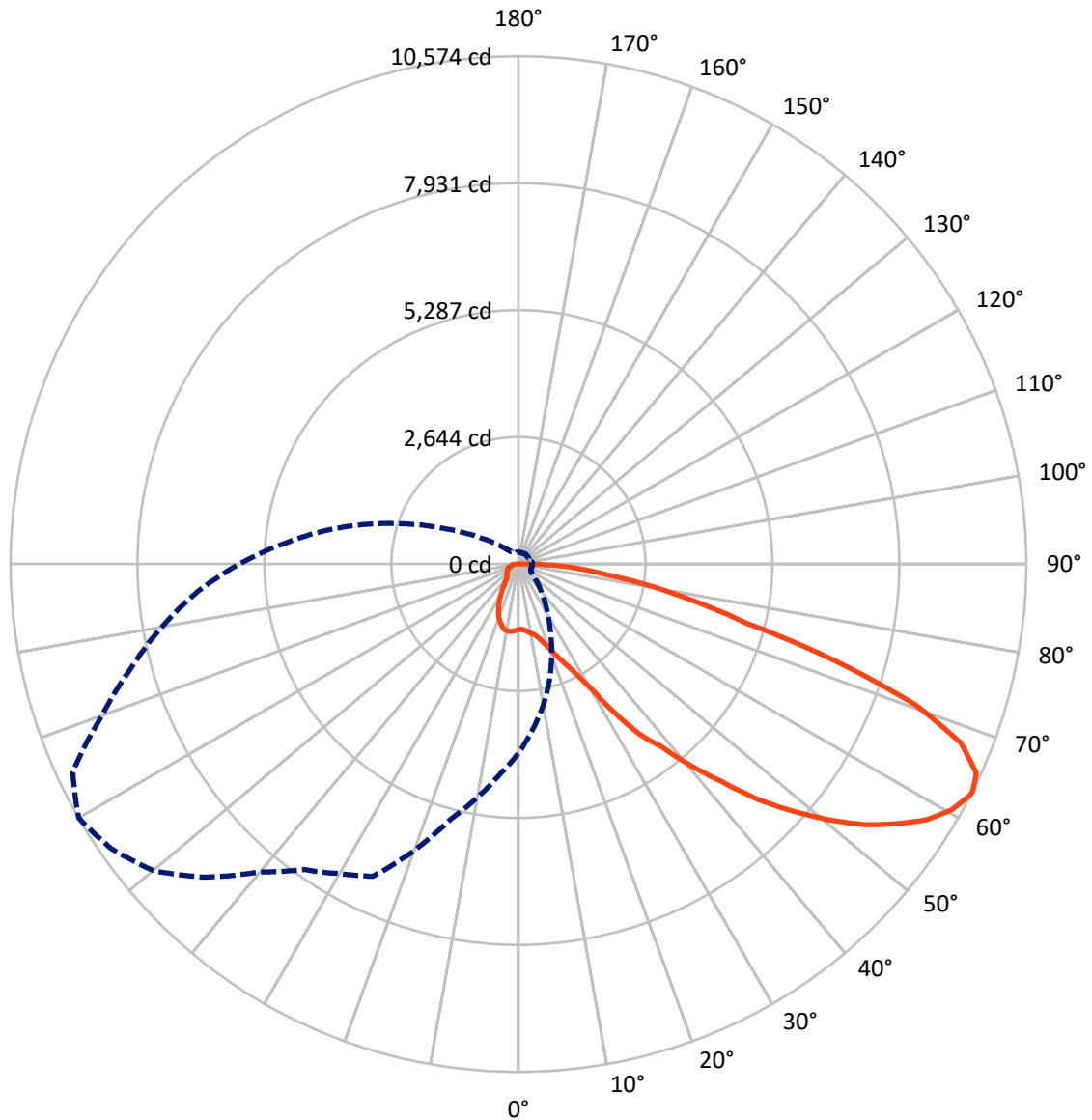
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.4 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	2327.2	0.0	2327.2
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	8790.3	0.0	8790.3
	% Fixture	79.1	0.0	79.1
Total	Lumens	11117.5	0.0	11117.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	134.1	1.2
10°-20°	418.5	3.8
20°-30°	740.1	6.7
30°-40°	1168.5	10.5
40°-50°	1718.3	15.5
50°-60°	2263.4	20.4
60°-70°	2522.8	22.7
70°-80°	1657.5	14.9
80°-90°	494.3	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°	11117.5	100.0
0°-180°	11117.5	100.0

Coefficient of Utilization



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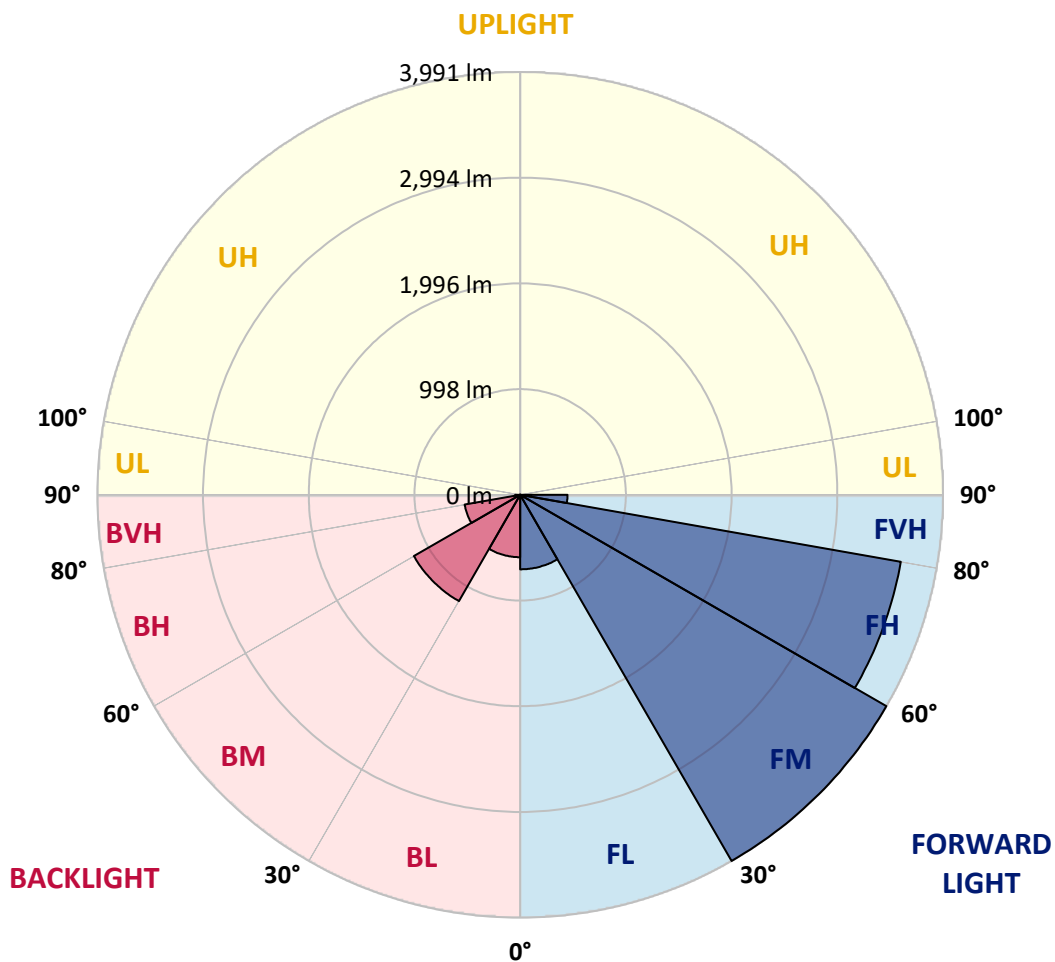
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	703.7	6.3			
FM	(30°-60°)	3991.5	35.9			
FH	(60°-80°)	3648.4	32.8			G2/5000
FVH	(80°-90°)	446.7	4.0			G3/500
BL	(0°-30°)	589.1	5.3	B2/1000		
BM	(30°-60°)	1158.7	10.4	B2/2500		
BH	(60°-80°)	531.9	4.8	B2/1000		G2/1000
BVH	(80°-90°)	47.6	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°	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4
2.5°	1363.8	1366.2	1366.2	1363.8	1366.2	1365.4	1365.4	1367.9	1368.7	1372.8	1370.4
5°	1357.2	1358.0	1358.8	1357.2	1358.0	1358.0	1359.6	1362.1	1362.9	1367.9	1365.4
7.5°	1349.7	1351.4	1348.1	1348.9	1351.4	1354.7	1354.7	1358.0	1363.8	1366.2	1365.4
10°	1353.9	1352.2	1349.7	1348.9	1350.6	1351.4	1353.0	1358.8	1363.8	1366.2	1370.4
12.5°	1386.1	1381.1	1378.6	1377.8	1378.6	1377.0	1382.8	1384.4	1386.1	1389.4	1387.7
15°	1447.1	1440.5	1436.4	1432.3	1441.4	1437.2	1437.2	1432.3	1424.0	1411.6	1396.0
17.5°	1532.2	1524.7	1521.4	1519.8	1520.6	1513.2	1498.3	1474.4	1445.5	1412.5	1381.9
20°	1654.4	1665.9	1661.0	1638.7	1630.4	1597.4	1550.3	1500.8	1450.4	1397.6	1347.3
22.5°	1865.7	1859.1	1836.8	1781.5	1732.0	1657.7	1573.5	1493.4	1419.1	1342.3	1276.3
25°	2110.9	2055.6	1992.8	1883.8	1769.9	1647.7	1526.4	1431.5	1332.4	1248.2	1168.9
27.5°	2411.4	2291.7	2131.5	1954.0	1784.0	1621.3	1477.7	1352.2	1239.1	1149.1	1060.8
30°	2706.9	2507.1	2284.2	2049.0	1819.5	1599.9	1410.0	1264.7	1134.3	1018.7	929.5
32.5°	2911.6	2669.7	2392.4	2101.8	1822.8	1565.2	1335.7	1162.3	1015.4	899.0	791.7
35°	3080.0	2777.9	2430.3	2093.5	1769.9	1484.3	1229.2	1036.9	880.8	760.3	666.2
37.5°	3195.6	2833.2	2427.9	2045.7	1675.8	1355.5	1107.0	911.4	766.1	653.8	567.1
40°	3276.5	2850.5	2395.7	1963.9	1567.7	1230.9	976.6	798.3	671.2	583.6	520.9
42.5°	3315.3	2839.0	2347.8	1886.3	1460.4	1130.1	878.4	722.3	619.1	553.1	506.9
45°	3331.8	2810.9	2294.1	1810.4	1372.8	1043.5	828.0	699.2	618.3	561.4	511.0
47.5°	3327.7	2780.4	2246.3	1747.6	1320.8	1020.3	837.9	730.6	648.9	577.9	513.5
50°	3316.1	2752.3	2215.7	1724.5	1320.0	1055.0	893.2	783.4	684.4	592.7	511.0
52.5°	3315.3	2749.8	2232.2	1751.8	1367.9	1133.4	976.6	844.5	719.0	609.2	511.8
55°	3335.1	2794.4	2302.4	1825.2	1483.5	1243.2	1070.7	909.7	757.8	620.8	509.3
57.5°	3415.2	2905.8	2435.3	1989.5	1632.1	1377.0	1161.5	958.4	772.7	617.5	497.8
60°	3591.0	3101.5	2640.0	2221.5	1822.8	1499.2	1215.2	974.9	766.1	597.7	473.0
62.5°	3865.1	3384.7	2920.7	2449.3	1992.0	1572.6	1227.6	961.7	739.7	564.7	442.5
63°	3935.3	3449.9	2977.7	2496.4	2020.9	1580.1	1226.7	956.8	732.2	556.4	435.1
65°	4228.3	3729.7	3206.3	2651.6	2098.5	1594.9	1207.7	925.4	699.2	517.6	401.2
67.5°	4669.2	4038.5	3433.4	2796.1	2141.4	1568.5	1148.3	847.8	614.2	449.9	350.8
70°	4963.1	4243.2	3568.7	2843.1	2091.1	1448.0	1012.1	710.8	501.9	370.7	299.7
72.5°	4970.5	4059.9	3385.5	2598.8	1805.4	1194.5	792.5	537.4	390.5	301.3	258.4
75°	4439.7	3430.9	2767.2	2134.0	1389.4	844.5	557.2	392.1	299.7	248.5	223.7
77.5°	3300.4	2503.0	1996.9	1435.6	902.3	547.3	388.0	290.6	237.8	205.6	187.4
80°	2048.1	1564.4	1211.9	858.5	540.7	364.1	284.0	231.1	199.8	171.7	156.8
82.5°	1235.0	875.9	684.4	518.4	345.9	262.5	218.8	194.8	169.2	144.5	132.9
85°	904.8	626.6	459.0	320.3	213.8	173.4	153.5	148.6	131.3	111.4	104.8
87.5°	284.8	298.8	310.4	189.0	103.2	78.4	66.9	78.4	75.1	52.8	57.8
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°	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4
2.5°	1374.5	1377.8	1375.3	1375.3	1373.7	1372.8	1378.6	1377.0	1378.6	1377.8	1379.5
5°	1369.5	1372.0	1370.4	1372.0	1370.4	1370.4	1377.8	1377.8	1381.1	1382.8	1386.9
7.5°	1371.2	1372.0	1371.2	1373.7	1372.0	1370.4	1374.5	1377.0	1382.8	1387.7	1391.8
10°	1377.0	1379.5	1378.6	1378.6	1373.7	1370.4	1372.8	1374.5	1380.3	1382.8	1387.7
12.5°	1391.0	1387.7	1381.1	1377.0	1365.4	1358.8	1355.5	1353.9	1358.0	1361.3	1363.8
15°	1387.7	1369.5	1354.7	1342.3	1325.0	1314.2	1306.0	1305.2	1306.0	1306.8	1309.3
17.5°	1353.9	1329.1	1299.4	1283.7	1263.9	1252.3	1246.5	1242.4	1241.6	1243.2	1247.4
20°	1305.2	1268.8	1235.8	1208.6	1187.1	1168.9	1173.1	1164.0	1168.1	1170.6	1178.0
22.5°	1230.9	1180.5	1142.5	1109.5	1083.9	1064.9	1064.9	1056.7	1058.3	1065.8	1075.7
25°	1110.3	1063.3	1008.8	985.7	956.8	943.6	941.1	939.4	946.1	955.1	960.9
27.5°	1001.4	937.0	883.3	852.8	822.2	825.5	809.0	818.9	826.4	833.8	840.4
30°	854.4	801.6	752.9	722.3	686.0	686.8	689.3	691.0	697.6	707.5	720.7
32.5°	713.3	656.3	610.9	577.9	556.4	549.8	540.7	555.6	563.8	573.7	586.9
35°	596.9	537.4	499.4	470.5	458.2	449.1	446.6	445.0	452.4	457.3	468.1
37.5°	513.5	473.0	445.0	424.3	412.8	402.9	400.4	398.7	397.9	396.3	402.9
40°	479.6	447.4	423.5	404.5	393.8	388.0	385.5	382.2	378.9	374.8	374.0
42.5°	469.7	435.1	407.0	388.0	379.7	378.9	378.9	377.3	374.0	368.2	364.1
45°	465.6	423.5	391.3	376.4	370.7	371.5	371.5	371.5	369.0	363.2	356.6
47.5°	458.2	409.5	376.4	364.1	361.6	363.2	364.9	364.9	363.2	358.3	350.8
50°	444.1	388.0	353.3	341.8	340.9	341.8	341.8	343.4	341.8	337.6	331.0
52.5°	433.4	371.5	336.0	326.9	326.9	326.1	325.3	325.3	324.4	321.1	316.2
55°	423.5	360.8	328.6	321.1	322.8	322.8	321.1	320.3	317.0	312.9	307.9
57.5°	409.5	349.2	321.1	316.2	317.8	317.0	316.2	315.4	312.0	307.1	300.5
60°	384.7	328.6	306.3	303.0	305.4	306.3	309.6	310.4	308.7	303.0	293.9
62.5°	357.5	303.0	286.5	284.0	286.5	288.9	291.4	289.8	289.8	284.0	275.7
63°	348.4	298.8	280.7	280.7	283.2	285.6	287.3	285.6	286.5	279.9	271.6
65°	327.7	284.0	269.9	270.8	273.2	274.9	275.7	275.7	274.9	269.9	262.5
67.5°	293.1	262.5	254.3	258.4	261.7	262.5	262.5	264.2	262.5	259.2	252.6
70°	261.7	241.9	236.1	241.1	242.7	243.5	243.5	243.5	241.9	238.6	232.8
72.5°	237.8	227.8	227.0	226.2	227.0	224.5	224.5	222.9	218.8	216.3	211.3
75°	211.3	206.4	207.2	206.4	204.7	203.9	199.8	198.1	193.2	189.9	183.3
77.5°	181.6	182.4	181.6	182.4	184.1	184.9	179.1	175.0	170.9	167.6	164.3
80°	151.1	152.7	151.1	152.7	153.5	153.5	147.8	141.2	137.9	140.3	141.2
82.5°	134.6	134.6	128.0	129.6	128.0	125.5	121.4	118.9	116.4	114.7	118.9
85°	106.5	107.3	109.0	107.3	104.0	101.5	97.4	94.1	91.6	94.1	99.9
87.5°	63.6	68.5	66.0	66.0	65.2	65.2	61.9	60.3	57.8	67.7	72.6
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°	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4
2.5°	1378.6	1381.1	1381.9	1381.1	1381.9	1383.6	1377.0	1383.6	1384.4	1379.5	1381.1
5°	1390.2	1394.3	1400.1	1400.1	1404.2	1406.7	1403.4	1412.5	1414.1	1413.3	1417.4
7.5°	1398.4	1404.2	1411.6	1415.8	1423.2	1426.5	1429.0	1437.2	1438.9	1442.2	1445.5
10°	1397.6	1405.9	1412.5	1424.0	1433.1	1439.7	1444.7	1453.7	1457.1	1462.0	1464.5
12.5°	1373.7	1382.8	1395.1	1411.6	1428.2	1438.9	1452.1	1465.3	1470.3	1476.9	1481.0
15°	1320.0	1327.4	1344.8	1366.2	1388.5	1415.8	1434.8	1455.4	1464.5	1471.1	1476.9
17.5°	1249.8	1256.4	1272.1	1291.1	1320.8	1347.3	1376.2	1407.5	1423.2	1430.6	1433.1
20°	1184.6	1194.5	1198.7	1221.0	1230.9	1257.3	1282.0	1316.7	1336.5	1349.7	1358.0
22.5°	1082.3	1087.2	1108.7	1117.8	1125.2	1141.7	1172.2	1202.8	1229.2	1250.7	1257.3
25°	969.2	982.4	993.9	1001.4	1018.7	1019.5	1044.3	1065.8	1098.8	1119.4	1135.9
27.5°	844.5	864.3	870.9	875.9	889.1	904.8	913.9	935.3	954.3	978.2	1008.0
30°	719.0	738.0	751.2	758.7	771.0	785.9	792.5	806.5	831.3	857.7	880.8
32.5°	601.8	621.6	628.2	652.2	655.5	669.5	674.5	696.7	710.8	733.1	760.3
35°	487.1	507.7	527.5	540.7	555.6	554.8	568.0	588.6	601.0	624.1	642.3
37.5°	408.6	421.0	435.1	449.9	466.4	478.8	491.2	500.3	510.2	525.9	542.4
40°	374.0	377.3	383.0	392.1	403.7	412.8	421.8	429.3	436.7	449.1	459.8
42.5°	359.9	357.5	357.5	355.8	359.9	364.9	372.3	374.8	386.3	393.8	397.9
45°	350.0	344.2	340.1	335.2	333.5	335.2	339.3	345.1	352.5	355.0	355.0
47.5°	344.2	335.2	328.6	321.1	317.0	317.0	319.5	323.6	327.7	328.6	327.7
50°	324.4	315.4	307.1	300.5	297.2	297.2	298.0	303.8	304.6	303.0	303.8
52.5°	309.6	300.5	292.2	286.5	282.3	283.2	285.6	288.1	290.6	288.9	287.3
55°	300.5	289.8	282.3	275.7	270.8	272.4	274.9	278.2	282.3	279.9	277.4
57.5°	292.2	283.2	274.1	267.5	261.7	263.3	265.8	270.8	275.7	270.8	267.5
60°	284.8	275.7	266.6	260.0	253.4	255.1	258.4	263.3	267.5	260.9	256.7
62.5°	266.6	258.4	251.8	248.5	244.4	246.8	249.3	255.1	253.4	246.8	241.9
63°	263.3	255.1	249.3	246.0	242.7	246.0	246.8	252.6	250.1	243.5	239.4
65°	253.4	246.8	241.1	237.8	234.4	236.1	236.1	238.6	235.3	230.3	227.0
67.5°	244.4	236.9	231.1	224.5	221.2	219.6	218.8	217.9	215.5	213.0	212.2
70°	224.5	219.6	214.6	208.9	203.9	200.6	199.0	197.3	195.6	194.8	194.0
72.5°	203.1	199.0	194.0	190.7	186.6	184.1	180.0	179.1	177.5	175.8	175.0
75°	180.0	175.0	173.4	170.1	167.6	165.9	162.6	161.8	160.2	157.7	156.8
77.5°	159.3	157.7	155.2	154.4	150.2	147.8	146.1	145.3	143.6	142.0	140.3
80°	142.0	141.2	139.5	138.7	136.2	132.9	131.3	132.1	129.6	128.8	126.3
82.5°	128.0	128.8	128.8	126.3	123.8	119.7	118.1	120.5	118.9	115.6	112.3
85°	109.0	108.1	109.0	108.1	103.2	99.1	97.4	99.1	98.2	93.3	92.5
87.5°	77.6	76.8	75.1	80.1	73.5	59.4	61.1	69.3	66.9	64.4	62.7
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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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4
2.5°	1384.4	1381.9	1383.6	1384.4	1381.9	1387.7	1381.9	1382.8	1384.4	1379.5	1378.6
5°	1420.7	1420.7	1427.3	1428.2	1427.3	1434.8	1433.9	1434.8	1433.1	1432.3	1429.0
7.5°	1450.4	1453.7	1458.7	1466.1	1468.6	1474.4	1476.0	1476.9	1480.2	1483.5	1481.8
10°	1471.9	1481.0	1485.1	1492.5	1500.0	1504.1	1508.2	1514.8	1517.3	1519.8	1516.5
12.5°	1486.8	1497.5	1504.1	1513.2	1522.3	1528.9	1536.3	1544.6	1552.8	1555.3	1551.2
15°	1479.3	1491.7	1501.6	1511.5	1525.6	1538.0	1552.0	1566.8	1577.6	1581.7	1576.8
17.5°	1433.1	1445.5	1460.4	1475.2	1490.1	1513.2	1533.0	1557.8	1575.1	1587.5	1589.1
20°	1369.5	1377.0	1398.4	1413.3	1437.2	1464.5	1494.2	1523.1	1542.9	1565.2	1578.4
22.5°	1275.4	1290.3	1314.2	1339.8	1363.8	1399.3	1430.6	1468.6	1502.5	1533.0	1561.9
25°	1160.7	1181.3	1209.4	1244.9	1276.3	1314.2	1359.6	1401.7	1458.7	1506.6	1568.5
27.5°	1036.9	1074.8	1113.6	1150.8	1185.5	1228.4	1275.4	1322.5	1387.7	1464.5	1545.4
30°	919.6	951.0	999.7	1042.6	1083.1	1135.9	1184.6	1236.6	1298.6	1389.4	1481.0
32.5°	797.5	823.0	861.0	913.9	960.9	1022.8	1065.8	1127.7	1199.5	1295.2	1399.3
35°	671.2	706.6	737.2	773.5	809.0	870.9	935.3	1003.8	1086.4	1188.8	1302.7
37.5°	559.7	582.0	596.9	634.0	665.4	718.2	793.3	875.9	966.7	1070.7	1192.9
40°	467.2	481.3	497.8	522.6	549.0	596.9	666.2	758.7	853.6	957.6	1079.8
42.5°	403.7	412.8	414.4	433.4	458.2	505.2	560.5	645.6	750.4	859.4	981.5
45°	359.9	359.9	359.1	367.4	387.2	427.6	478.0	553.9	653.8	767.7	894.9
47.5°	329.4	331.9	331.0	334.3	347.5	377.3	422.7	487.1	577.9	689.3	817.3
50°	306.3	309.6	310.4	311.2	316.2	340.9	379.7	431.7	512.7	619.1	747.9
52.5°	288.1	288.9	288.9	288.1	289.8	303.8	336.0	383.9	459.0	554.8	678.6
55°	278.2	279.0	279.0	279.0	279.0	288.1	311.2	350.0	410.3	500.3	612.5
57.5°	266.6	266.6	268.3	268.3	268.3	271.6	288.1	320.3	366.5	438.4	538.2
60°	256.7	259.2	262.5	263.3	262.5	262.5	270.8	292.2	322.8	374.8	459.0
62.5°	241.9	245.2	249.3	251.0	251.8	250.1	254.3	263.3	281.5	308.7	365.7
63°	239.4	242.7	246.0	247.7	248.5	246.8	250.1	257.6	272.4	294.7	345.9
65°	228.7	232.8	233.6	234.4	233.6	232.8	232.0	232.0	236.1	244.4	271.6
67.5°	213.8	216.3	216.3	217.9	213.8	212.2	210.5	208.9	206.4	207.2	217.1
70°	196.5	198.1	197.3	196.5	194.8	192.3	190.7	188.2	183.3	181.6	186.6
72.5°	176.7	178.3	178.3	178.3	175.0	173.4	171.7	170.1	168.4	170.1	171.7
75°	158.5	158.5	160.2	159.3	156.8	155.2	154.4	153.5	153.5	153.5	152.7
77.5°	141.2	140.3	140.3	137.9	136.2	135.4	137.0	137.9	137.0	135.4	134.6
80°	126.3	122.2	118.1	114.7	113.9	115.6	117.2	122.2	119.7	119.7	118.1
82.5°	107.3	98.2	92.5	93.3	90.8	91.6	93.3	99.1	97.4	98.2	101.5
85°	85.9	77.6	68.5	70.2	70.2	68.5	72.6	74.3	75.9	80.1	76.8
87.5°	60.3	52.8	43.8	38.0	39.6	41.3	42.9	41.3	36.3	38.0	37.1
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°	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4
2.5°	1377.0	1377.8	1377.8	1372.0	1370.4	1372.0	1371.2	1371.2	1366.2	1367.1	1365.4
5°	1427.3	1429.0	1424.0	1419.9	1414.1	1413.3	1412.5	1409.2	1405.9	1399.3	1396.0
7.5°	1481.0	1473.6	1471.9	1464.5	1462.0	1455.4	1450.4	1445.5	1441.4	1438.1	1435.6
10°	1514.8	1509.1	1507.4	1494.2	1490.1	1481.8	1476.9	1471.1	1466.1	1461.2	1460.4
12.5°	1545.4	1535.5	1529.7	1511.5	1503.3	1494.2	1490.1	1485.1	1483.5	1482.6	1485.9
15°	1569.3	1555.3	1544.6	1528.0	1521.4	1516.5	1517.3	1514.8	1524.7	1530.5	1541.3
17.5°	1585.0	1579.2	1576.8	1564.4	1568.5	1568.5	1580.1	1585.8	1604.0	1618.9	1633.7
20°	1593.3	1604.0	1624.6	1628.8	1638.7	1649.4	1666.7	1676.6	1695.6	1717.1	1737.7
22.5°	1600.7	1646.1	1688.2	1719.6	1741.9	1766.6	1779.0	1799.6	1812.9	1828.5	1859.9
25°	1642.0	1717.9	1792.2	1832.7	1885.5	1921.0	1949.1	1969.7	1992.8	2006.0	2041.5
27.5°	1630.4	1727.0	1826.1	1900.4	1982.9	2049.8	2109.2	2148.8	2178.6	2226.4	2256.2
30°	1577.6	1689.8	1809.6	1915.2	2030.8	2139.8	2243.0	2335.4	2414.7	2479.1	2522.8
32.5°	1502.5	1631.2	1771.6	1902.0	2049.8	2195.1	2343.7	2484.8	2619.4	2725.9	2792.8
35°	1418.3	1556.9	1712.1	1866.5	2044.0	2233.9	2434.5	2624.3	2819.2	2989.2	3123.0
37.5°	1315.9	1466.1	1636.2	1815.3	2019.2	2247.1	2499.7	2758.1	3006.6	3264.1	3452.3
40°	1208.6	1355.5	1532.2	1736.9	1972.2	2240.5	2550.0	2885.2	3245.1	3577.0	3863.5
42.5°	1116.9	1260.6	1445.5	1647.7	1901.2	2215.7	2583.9	2999.1	3442.4	3872.5	4253.1
45°	1027.0	1180.5	1367.1	1580.9	1857.4	2205.8	2627.6	3098.2	3604.2	4114.4	4599.8
47.5°	956.0	1107.9	1296.1	1525.6	1821.9	2200.0	2668.9	3190.7	3736.3	4294.4	4869.8
50°	888.3	1033.6	1216.8	1458.7	1784.8	2190.9	2693.7	3264.1	3839.5	4435.5	5061.3
52.5°	818.9	970.0	1148.3	1382.8	1736.1	2172.8	2701.1	3321.9	3946.0	4570.9	5240.4
55°	748.8	899.8	1078.1	1320.8	1670.0	2137.3	2695.3	3364.0	4057.5	4713.7	5403.9
57.5°	662.9	811.5	998.1	1242.4	1585.0	2066.3	2667.3	3382.2	4126.8	4847.5	5568.2
60°	566.3	706.6	883.3	1132.6	1481.0	1963.9	2604.5	3356.6	4158.2	4935.8	5742.4
62.5°	445.0	567.1	729.8	977.4	1329.9	1816.2	2467.5	3243.5	4082.2	4913.5	5817.5
63°	417.7	535.8	703.3	936.1	1285.3	1765.0	2427.0	3204.7	4048.4	4892.9	5808.4
65°	318.7	406.2	544.8	752.9	1086.4	1528.9	2214.1	2985.1	3835.4	4687.3	5665.6
67.5°	235.3	280.7	365.7	505.2	764.4	1189.6	1814.5	2578.1	3383.0	4183.8	5179.3
70°	194.8	212.2	251.8	323.6	473.0	789.2	1282.0	1962.3	2719.3	3408.6	4307.6
72.5°	174.2	186.6	204.7	236.9	298.8	463.1	833.8	1273.8	1893.8	2489.8	3249.3
75°	156.0	164.3	179.1	198.1	226.2	289.8	440.8	755.4	1157.4	1677.5	2228.9
77.5°	137.0	145.3	160.2	175.0	193.2	220.4	273.2	430.1	692.6	979.1	1367.9
80°	118.9	123.0	135.4	156.8	170.1	192.3	209.7	269.1	377.3	512.7	728.9
82.5°	98.2	99.1	107.3	123.8	140.3	148.6	153.5	169.2	217.1	270.8	357.5
85°	70.2	66.9	71.8	78.4	91.6	84.2	90.0	94.9	115.6	139.5	255.9
87.5°	31.4	24.8	28.9	32.2	28.9	19.8	28.9	23.9	29.7	58.6	66.0
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	0°
2.5°	1367.1	1362.1	1362.1	1361.3	1362.1	1360.5	1357.2	1357.2	1359.6	1358.8	1358.8	2.5°
5°	1396.0	1389.4	1387.7	1386.9	1386.9	1382.8	1377.8	1375.3	1374.5	1371.2	1368.7	5°
7.5°	1433.9	1429.8	1432.3	1427.3	1425.7	1424.9	1418.3	1413.3	1405.9	1402.6	1390.2	7.5°
10°	1465.3	1462.8	1469.4	1468.6	1469.4	1469.4	1460.4	1455.4	1444.7	1438.9	1423.2	10°
12.5°	1492.5	1494.2	1506.6	1506.6	1509.1	1512.4	1507.4	1496.7	1492.5	1486.8	1470.3	12.5°
15°	1561.9	1568.5	1577.6	1592.4	1596.6	1597.4	1601.5	1592.4	1581.7	1566.8	1547.0	15°
17.5°	1656.0	1669.2	1699.8	1721.2	1725.3	1729.5	1727.0	1725.3	1705.5	1693.2	1672.5	17.5°
20°	1774.1	1806.2	1849.2	1878.9	1892.1	1893.8	1910.3	1898.7	1880.5	1855.8	1826.1	20°
22.5°	1906.1	1959.8	2014.3	2058.0	2083.6	2095.2	2112.5	2096.0	2072.1	2057.2	2017.6	22.5°
25°	2086.9	2145.5	2208.3	2243.0	2308.2	2327.2	2337.1	2332.1	2307.3	2318.1	2281.8	25°
27.5°	2334.6	2384.9	2473.3	2517.0	2578.1	2613.6	2606.2	2647.5	2654.9	2680.5	2684.6	27.5°
30°	2604.5	2687.9	2806.8	2895.1	2988.4	3048.7	3096.5	3132.9	3175.0	3246.0	3288.9	30°
32.5°	2895.9	3016.5	3168.4	3355.8	3553.9	3715.7	3898.1	3929.5	4023.6	3996.4	3978.2	32.5°
35°	3220.4	3372.3	3567.1	3813.1	4101.2	4368.7	4544.5	4632.8	4670.0	4690.6	4565.2	35°
37.5°	3654.6	3860.2	4077.3	4345.6	4566.0	4816.1	5018.4	5238.0	5338.7	5290.8	5050.6	37.5°
40°	4135.9	4328.2	4622.1	4841.7	5101.7	5513.7	5787.8	6051.9	6134.5	5975.1	5598.7	40°
42.5°	4618.8	4883.0	5201.6	5513.7	5812.5	6185.7	6548.9	6809.8	6900.6	6628.1	6181.5	42.5°
45°	5048.9	5387.4	5762.2	6082.5	6500.2	6988.1	7433.0	7642.7	7626.2	7188.7	6685.9	45°
47.5°	5423.7	5862.9	6285.5	6717.3	7138.3	7688.9	8129.8	8370.8	8199.9	7740.1	7170.5	47.5°
50°	5733.3	6264.1	6774.3	7270.4	7787.2	8372.5	8797.6	9020.5	8760.5	8178.5	7542.0	50°
52.5°	5968.5	6626.5	7214.3	7769.0	8386.5	9018.9	9397.0	9531.5	9126.2	8517.8	7820.2	52.5°
55°	6190.6	6934.4	7584.9	8214.8	8983.4	9550.5	9904.6	9879.9	9356.5	8665.5	7994.4	55°
57.5°	6358.2	7196.9	7889.5	8606.9	9434.9	10040.9	10245.6	10082.1	9452.3	8709.3	8044.7	57.5°
60°	6569.5	7401.7	8160.3	8961.1	9864.2	10376.8	10404.1	10111.0	9425.0	8626.7	7973.7	60°
62.5°	6704.9	7529.6	8332.8	9203.8	10191.1	10565.9	10371.1	9986.4	9268.2	8422.8	7811.1	62.5°
63°	6718.1	7542.0	8346.9	9227.7	10237.3	10574.1	10340.5	9930.2	9221.9	8366.7	7768.2	63°
65°	6658.7	7506.5	8282.5	9184.8	10248.9	10476.7	10116.8	9699.9	8966.9	8080.2	7515.6	65°
67.5°	6243.4	7125.1	7865.6	8711.8	9803.1	9929.4	9568.7	9115.4	8427.0	7462.7	6963.3	67.5°
70°	5499.6	6337.6	6862.6	7648.5	8608.6	8759.6	8436.9	8086.0	7474.3	6668.6	6254.2	70°
72.5°	4430.6	5253.6	5569.0	6170.8	6933.6	6900.6	6673.5	6629.8	6307.8	5631.7	5382.4	72.5°
75°	3312.0	4095.4	4228.3	4473.5	4899.5	4888.8	4941.6	5129.8	5290.8	4891.2	4571.8	75°
77.5°	2184.3	2963.6	3046.2	3331.8	3449.9	3773.5	4153.2	4626.2	4860.7	4697.2	4305.1	77.5°
80°	1208.6	2027.5	2011.0	2122.4	2331.3	2801.8	3377.2	4079.7	4548.6	4431.4	4002.1	80°
82.5°	628.2	1281.2	1262.2	1282.0	1476.0	1871.5	2309.0	2883.6	3368.1	3378.9	3234.4	82.5°
85°	467.2	919.6	974.1	1018.7	1147.5	1285.3	1365.4	1549.5	1815.3	2063.0	2151.3	85°
87.5°	171.7	552.3	687.7	738.8	742.1	724.8	590.3	649.7	591.1	699.2	976.6	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1365.4	1365.4	1365.4	1365.4	1365.4	1365.4	1365.4
1360.5	1360.5	1359.6	1361.3	1362.1	1364.6	1363.8
1366.2	1363.8	1361.3	1359.6	1358.0	1358.8	1357.2
1381.1	1372.8	1366.2	1360.5	1355.5	1354.7	1349.7
1414.1	1399.3	1386.9	1377.8	1367.9	1362.9	1353.9
1456.2	1439.7	1424.0	1410.8	1399.3	1392.7	1386.1
1529.7	1505.8	1486.8	1472.7	1461.2	1453.7	1447.1
1638.7	1608.9	1580.1	1552.8	1549.5	1532.2	1532.2
1788.9	1748.5	1711.3	1688.2	1677.5	1654.4	1654.4
1996.9	1957.3	1902.0	1873.9	1876.4	1856.6	1865.7
2266.1	2233.0	2176.1	2164.5	2164.5	2143.1	2110.9
2669.7	2658.2	2595.5	2611.1	2578.1	2498.0	2411.4
3269.1	3269.1	3147.7	3060.2	2984.3	2859.6	2706.9
3869.2	3790.8	3605.1	3456.5	3298.8	3108.1	2911.6
4376.1	4167.2	3979.0	3797.4	3560.5	3355.8	3080.0
4803.7	4605.6	4390.1	4113.6	3835.4	3549.8	3195.6
5333.7	5092.7	4769.1	4421.5	4079.7	3686.8	3276.5
5818.3	5516.2	5107.5	4667.5	4232.5	3794.1	3315.3
6274.0	5884.3	5379.9	4851.6	4356.3	3860.2	3331.8
6703.3	6180.7	5593.8	4982.9	4441.3	3895.7	3327.7
6986.4	6397.8	5728.3	5062.1	4492.5	3908.0	3316.1
7163.9	6530.7	5807.6	5105.9	4518.1	3910.5	3315.3
7263.8	6605.9	5850.5	5136.4	4546.2	3925.4	3335.1
7341.4	6665.3	5898.4	5188.4	4613.0	3994.7	3415.2
7414.9	6821.3	6023.0	5284.2	4729.4	4124.3	3591.0
7445.4	7117.7	6276.5	5460.8	4892.1	4332.4	3865.1
7442.9	7173.8	6349.9	5509.6	4935.0	4387.7	3935.3
7353.0	7352.1	6684.3	5742.4	5134.8	4643.6	4228.3
7086.3	7441.3	7054.1	6049.4	5445.2	5065.4	4669.2
6664.5	7333.1	7104.5	6130.3	5665.6	5452.6	4963.1
5938.0	6816.4	6633.1	5785.3	5590.5	5528.5	4970.5
4802.9	5479.8	5401.4	4942.4	5014.2	5141.4	4439.7
3869.2	3847.8	3836.2	3669.5	3974.9	4233.3	3300.4
3231.9	2662.3	2472.4	2408.1	2911.6	3109.8	2048.1
3021.4	2391.5	1918.5	1837.6	2181.9	2287.5	1235.0
2309.0	2322.2	2010.2	1722.9	1697.3	1553.6	904.8
1130.1	1149.1	1214.3	1108.7	951.0	801.6	284.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)