

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: P146050

Luminaire Tested: **LDRL-SLR-E04-E**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146050
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-E04-E
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10773.8 lumens
Efficiency: N/A
Efficacy: 110.8 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

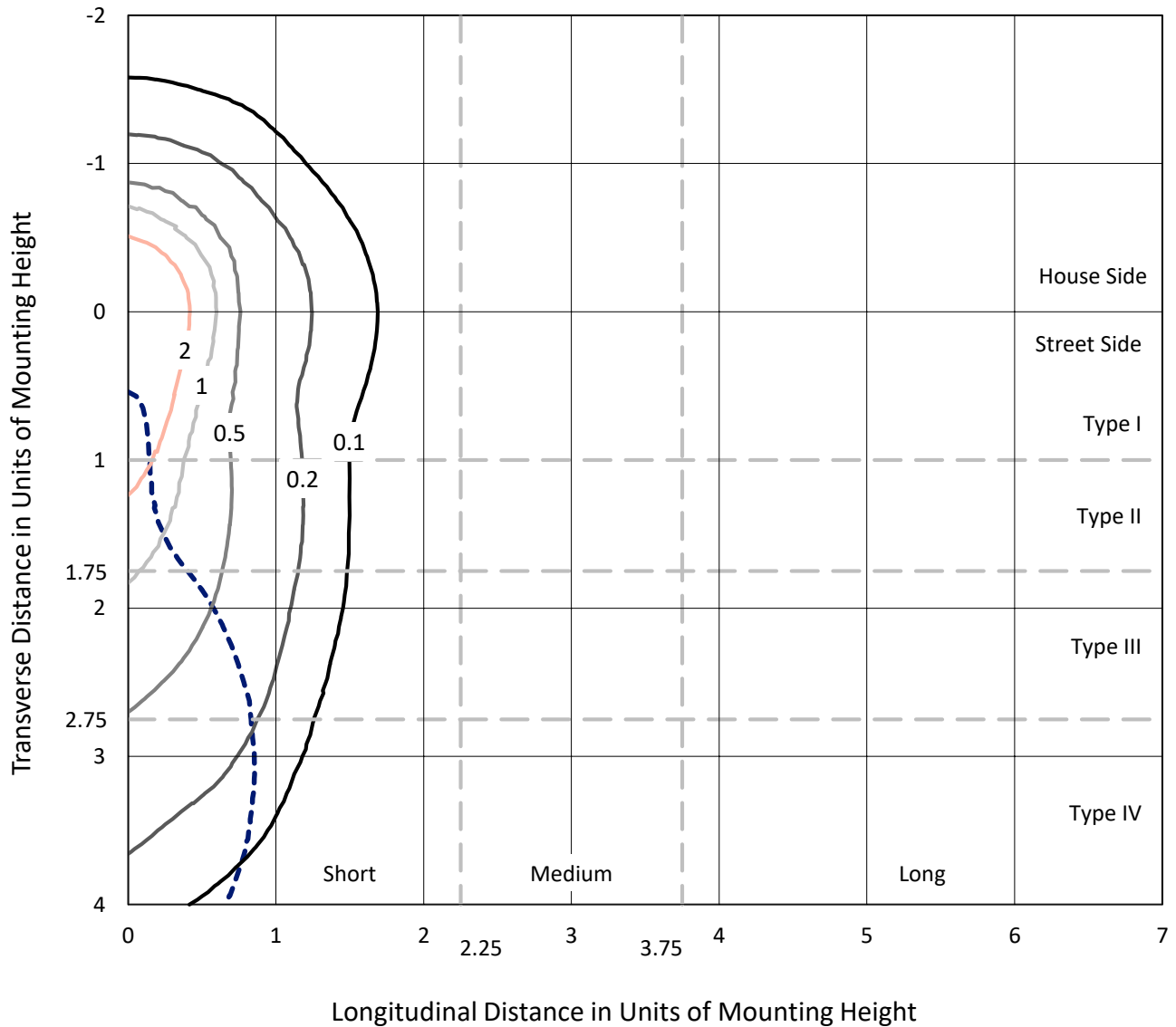
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

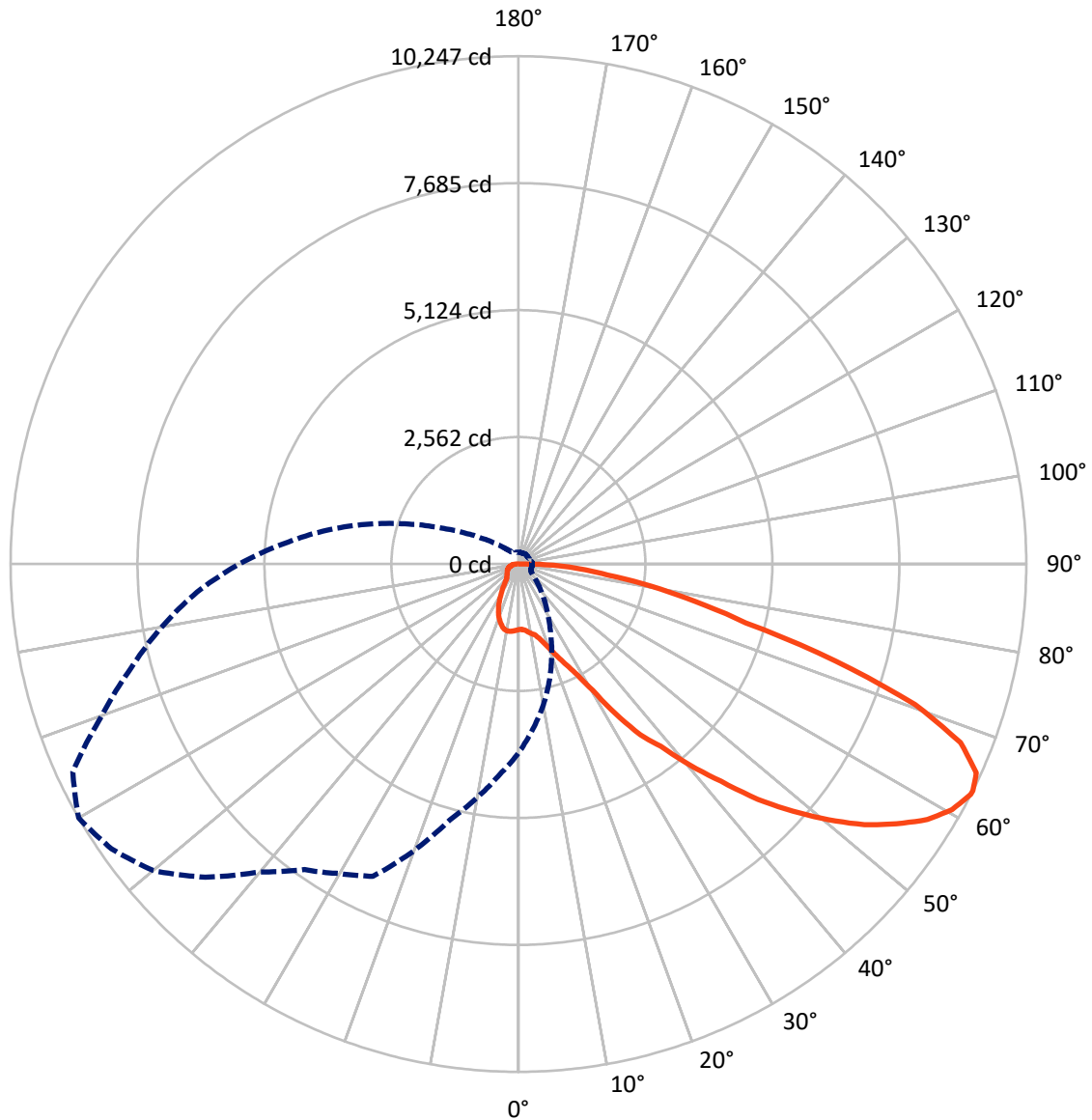
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 4.2 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	2255.3	0.0	2255.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	8518.5	0.0	8518.5
	% Fixture	79.1	0.0	79.1
Total	Lumens	10773.8	0.0	10773.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	130.0	1.2
10°-20°	405.6	3.8
20°-30°	717.3	6.7
30°-40°	1132.4	10.5
40°-50°	1665.1	15.5
50°-60°	2193.4	20.4
60°-70°	2444.8	22.7
70°-80°	1606.3	14.9
80°-90°	479.0	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°	10773.8	100.0
0°-180°	10773.8	100.0

Coefficient of Utilization



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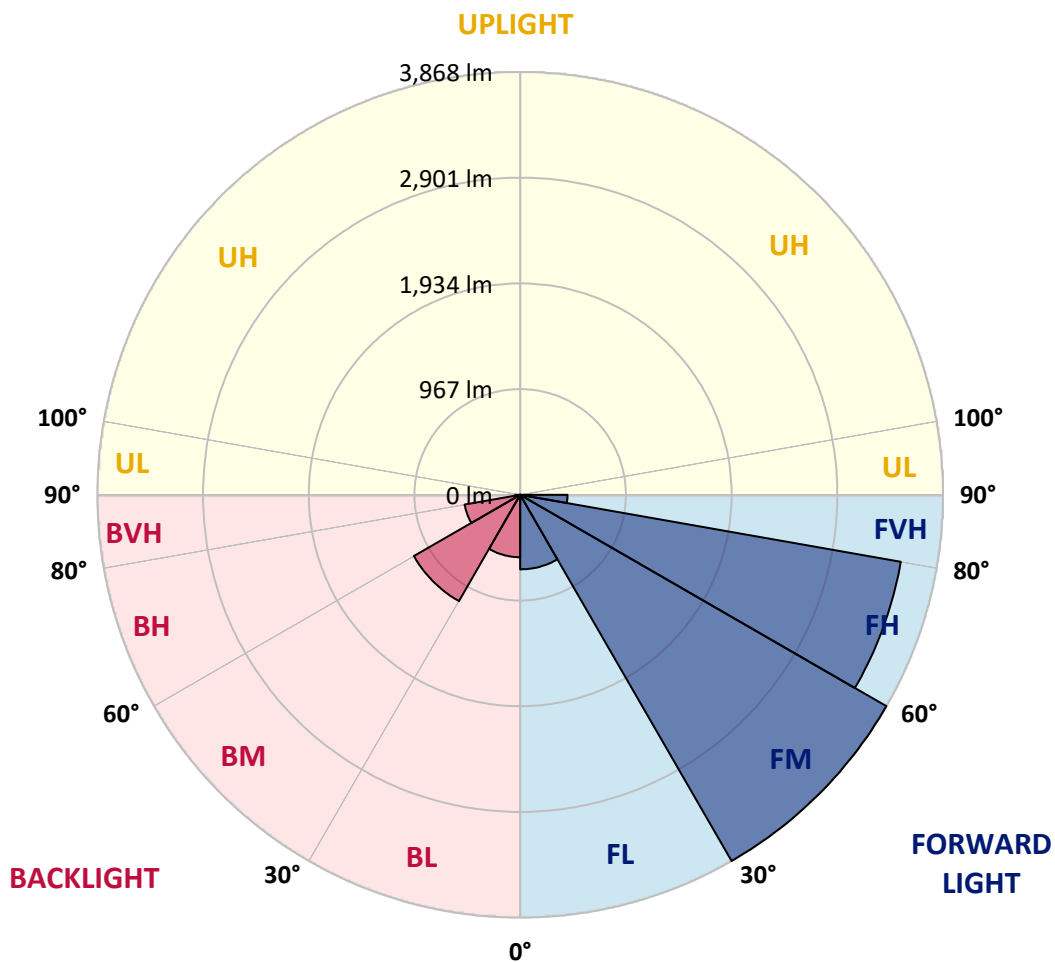
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	681.9	6.3			
FM	(30°-60°)	3868.1	35.9			
FH	(60°-80°)	3535.6	32.8			G2/5000
FVH	(80°-90°)	432.9	4.0			G3/500
BL	(0°-30°)	570.9	5.3	B2/1000		
BM	(30°-60°)	1122.8	10.4	B2/2500		
BH	(60°-80°)	515.4	4.8	B2/1000		G2/1000
BVH	(80°-90°)	46.1	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2
2.5°	1321.6	1324.0	1324.0	1321.6	1324.0	1323.2	1323.2	1325.6	1326.4	1330.4	1328.0
5°	1315.2	1316.0	1316.8	1315.2	1316.0	1316.0	1317.6	1320.0	1320.8	1325.6	1323.2
7.5°	1308.0	1309.6	1306.4	1307.2	1309.6	1312.8	1312.8	1316.0	1321.6	1324.0	1323.2
10°	1312.0	1310.4	1308.0	1307.2	1308.8	1309.6	1311.2	1316.8	1321.6	1324.0	1328.0
12.5°	1343.2	1338.4	1336.0	1335.2	1336.0	1334.4	1340.0	1341.6	1343.2	1346.4	1344.8
15°	1402.4	1396.0	1392.0	1388.0	1396.8	1392.8	1392.8	1388.0	1380.0	1368.0	1352.8
17.5°	1484.8	1477.6	1474.4	1472.8	1473.6	1466.4	1452.0	1428.8	1400.8	1368.8	1339.2
20°	1603.2	1614.4	1609.6	1588.0	1580.0	1548.0	1502.4	1454.4	1405.6	1354.4	1305.6
22.5°	1808.0	1801.6	1780.0	1726.4	1678.4	1606.4	1524.8	1447.2	1375.2	1300.8	1236.8
25°	2045.6	1992.0	1931.2	1825.6	1715.2	1596.8	1479.2	1387.2	1291.2	1209.6	1132.8
27.5°	2336.8	2220.8	2065.6	1893.6	1728.8	1571.2	1432.0	1310.4	1200.8	1113.6	1028.0
30°	2623.2	2429.6	2213.6	1985.6	1763.2	1550.4	1366.4	1225.6	1099.2	987.2	900.8
32.5°	2821.6	2587.2	2318.4	2036.8	1766.4	1516.8	1294.4	1126.4	984.0	871.2	767.2
35°	2984.8	2692.0	2355.2	2028.8	1715.2	1438.4	1191.2	1004.8	853.6	736.8	645.6
37.5°	3096.8	2745.6	2352.8	1982.4	1624.0	1313.6	1072.8	883.2	742.4	633.6	549.6
40°	3175.2	2762.4	2321.6	1903.2	1519.2	1192.8	946.4	773.6	650.4	565.6	504.8
42.5°	3212.8	2751.2	2275.2	1828.0	1415.2	1095.2	851.2	700.0	600.0	536.0	491.2
45°	3228.8	2724.0	2223.2	1754.4	1330.4	1011.2	802.4	677.6	599.2	544.0	495.2
47.5°	3224.8	2694.4	2176.8	1693.6	1280.0	988.8	812.0	708.0	628.8	560.0	497.6
50°	3213.6	2667.2	2147.2	1671.2	1279.2	1022.4	865.6	759.2	663.2	574.4	495.2
52.5°	3212.8	2664.8	2163.2	1697.6	1325.6	1098.4	946.4	818.4	696.8	590.4	496.0
55°	3232.0	2708.0	2231.2	1768.8	1437.6	1204.8	1037.6	881.6	734.4	601.6	493.6
57.5°	3309.6	2816.0	2360.0	1928.0	1581.6	1334.4	1125.6	928.8	748.8	598.4	482.4
60°	3480.0	3005.6	2558.4	2152.8	1766.4	1452.8	1177.6	944.8	742.4	579.2	458.4
62.5°	3745.6	3280.0	2830.4	2373.6	1930.4	1524.0	1189.6	932.0	716.8	547.2	428.8
63°	3813.6	3343.2	2885.6	2419.2	1958.4	1531.2	1188.8	927.2	709.6	539.2	421.6
65°	4097.6	3614.4	3107.2	2569.6	2033.6	1545.6	1170.4	896.8	677.6	501.6	388.8
67.5°	4524.8	3913.6	3327.2	2709.6	2075.2	1520.0	1112.8	821.6	595.2	436.0	340.0
70°	4809.6	4112.0	3458.4	2755.2	2026.4	1403.2	980.8	688.8	486.4	359.2	290.4
72.5°	4816.8	3934.4	3280.8	2518.4	1749.6	1157.6	768.0	520.8	378.4	292.0	250.4
75°	4302.4	3324.8	2681.6	2068.0	1346.4	818.4	540.0	380.0	290.4	240.8	216.8
77.5°	3198.4	2425.6	1935.2	1391.2	874.4	530.4	376.0	281.6	230.4	199.2	181.6
80°	1984.8	1516.0	1174.4	832.0	524.0	352.8	275.2	224.0	193.6	166.4	152.0
82.5°	1196.8	848.8	663.2	502.4	335.2	254.4	212.0	188.8	164.0	140.0	128.8
85°	876.8	607.2	444.8	310.4	207.2	168.0	148.8	144.0	127.2	108.0	101.6
87.5°	276.0	289.6	300.8	183.2	100.0	76.0	64.8	76.0	72.8	51.2	56.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2
2.5°	1332.0	1335.2	1332.8	1332.8	1331.2	1330.4	1336.0	1334.4	1336.0	1335.2	1336.8
5°	1327.2	1329.6	1328.0	1329.6	1328.0	1328.0	1335.2	1335.2	1338.4	1340.0	1344.0
7.5°	1328.8	1329.6	1328.8	1331.2	1329.6	1328.0	1332.0	1334.4	1340.0	1344.8	1348.8
10°	1334.4	1336.8	1336.0	1336.0	1331.2	1328.0	1330.4	1332.0	1337.6	1340.0	1344.8
12.5°	1348.0	1344.8	1338.4	1334.4	1323.2	1316.8	1313.6	1312.0	1316.0	1319.2	1321.6
15°	1344.8	1327.2	1312.8	1300.8	1284.0	1273.6	1265.6	1264.8	1265.6	1266.4	1268.8
17.5°	1312.0	1288.0	1259.2	1244.0	1224.8	1213.6	1208.0	1204.0	1203.2	1204.8	1208.8
20°	1264.8	1229.6	1197.6	1171.2	1150.4	1132.8	1136.8	1128.0	1132.0	1134.4	1141.6
22.5°	1192.8	1144.0	1107.2	1075.2	1050.4	1032.0	1032.0	1024.0	1025.6	1032.8	1042.4
25°	1076.0	1030.4	977.6	955.2	927.2	914.4	912.0	910.4	916.8	925.6	931.2
27.5°	970.4	908.0	856.0	826.4	796.8	800.0	784.0	793.6	800.8	808.0	814.4
30°	828.0	776.8	729.6	700.0	664.8	665.6	668.0	669.6	676.0	685.6	698.4
32.5°	691.2	636.0	592.0	560.0	539.2	532.8	524.0	538.4	546.4	556.0	568.8
35°	578.4	520.8	484.0	456.0	444.0	435.2	432.8	431.2	438.4	443.2	453.6
37.5°	497.6	458.4	431.2	411.2	400.0	390.4	388.0	386.4	385.6	384.0	390.4
40°	464.8	433.6	410.4	392.0	381.6	376.0	373.6	370.4	367.2	363.2	362.4
42.5°	455.2	421.6	394.4	376.0	368.0	367.2	367.2	365.6	362.4	356.8	352.8
45°	451.2	410.4	379.2	364.8	359.2	360.0	360.0	360.0	357.6	352.0	345.6
47.5°	444.0	396.8	364.8	352.8	350.4	352.0	353.6	353.6	352.0	347.2	340.0
50°	430.4	376.0	342.4	331.2	330.4	331.2	331.2	332.8	331.2	327.2	320.8
52.5°	420.0	360.0	325.6	316.8	316.8	316.0	315.2	315.2	314.4	311.2	306.4
55°	410.4	349.6	318.4	311.2	312.8	312.8	311.2	310.4	307.2	303.2	298.4
57.5°	396.8	338.4	311.2	306.4	308.0	307.2	306.4	305.6	302.4	297.6	291.2
60°	372.8	318.4	296.8	293.6	296.0	296.8	300.0	300.8	299.2	293.6	284.8
62.5°	346.4	293.6	277.6	275.2	277.6	280.0	282.4	280.8	280.8	275.2	267.2
63°	337.6	289.6	272.0	272.0	274.4	276.8	278.4	276.8	277.6	271.2	263.2
65°	317.6	275.2	261.6	262.4	264.8	266.4	267.2	267.2	266.4	261.6	254.4
67.5°	284.0	254.4	246.4	250.4	253.6	254.4	254.4	256.0	254.4	251.2	244.8
70°	253.6	234.4	228.8	233.6	235.2	236.0	236.0	236.0	234.4	231.2	225.6
72.5°	230.4	220.8	220.0	219.2	220.0	217.6	217.6	216.0	212.0	209.6	204.8
75°	204.8	200.0	200.8	200.0	198.4	197.6	193.6	192.0	187.2	184.0	177.6
77.5°	176.0	176.8	176.0	176.8	178.4	179.2	173.6	169.6	165.6	162.4	159.2
80°	146.4	148.0	146.4	148.0	148.8	148.8	143.2	136.8	133.6	136.0	136.8
82.5°	130.4	130.4	124.0	125.6	124.0	121.6	117.6	115.2	112.8	111.2	115.2
85°	103.2	104.0	105.6	104.0	100.8	98.4	94.4	91.2	88.8	91.2	96.8
87.5°	61.6	66.4	64.0	64.0	63.2	63.2	60.0	58.4	56.0	65.6	70.4
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°	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2
2.5°	1336.0	1338.4	1339.2	1338.4	1339.2	1340.8	1334.4	1340.8	1341.6	1336.8	1338.4
5°	1347.2	1351.2	1356.8	1356.8	1360.8	1363.2	1360.0	1368.8	1370.4	1369.6	1373.6
7.5°	1355.2	1360.8	1368.0	1372.0	1379.2	1382.4	1384.8	1392.8	1394.4	1397.6	1400.8
10°	1354.4	1362.4	1368.8	1380.0	1388.8	1395.2	1400.0	1408.8	1412.0	1416.8	1419.2
12.5°	1331.2	1340.0	1352.0	1368.0	1384.0	1394.4	1407.2	1420.0	1424.8	1431.2	1435.2
15°	1279.2	1286.4	1303.2	1324.0	1345.6	1372.0	1390.4	1410.4	1419.2	1425.6	1431.2
17.5°	1211.2	1217.6	1232.8	1251.2	1280.0	1305.6	1333.6	1364.0	1379.2	1386.4	1388.8
20°	1148.0	1157.6	1161.6	1183.2	1192.8	1218.4	1242.4	1276.0	1295.2	1308.0	1316.0
22.5°	1048.8	1053.6	1074.4	1083.2	1090.4	1106.4	1136.0	1165.6	1191.2	1212.0	1218.4
25°	939.2	952.0	963.2	970.4	987.2	988.0	1012.0	1032.8	1064.8	1084.8	1100.8
27.5°	818.4	837.6	844.0	848.8	861.6	876.8	885.6	906.4	924.8	948.0	976.8
30°	696.8	715.2	728.0	735.2	747.2	761.6	768.0	781.6	805.6	831.2	853.6
32.5°	583.2	602.4	608.8	632.0	635.2	648.8	653.6	675.2	688.8	710.4	736.8
35°	472.0	492.0	511.2	524.0	538.4	537.6	550.4	570.4	582.4	604.8	622.4
37.5°	396.0	408.0	421.6	436.0	452.0	464.0	476.0	484.8	494.4	509.6	525.6
40°	362.4	365.6	371.2	380.0	391.2	400.0	408.8	416.0	423.2	435.2	445.6
42.5°	348.8	346.4	346.4	344.8	348.8	353.6	360.8	363.2	374.4	381.6	385.6
45°	339.2	333.6	329.6	324.8	323.2	324.8	328.8	334.4	341.6	344.0	344.0
47.5°	333.6	324.8	318.4	311.2	307.2	307.2	309.6	313.6	317.6	318.4	317.6
50°	314.4	305.6	297.6	291.2	288.0	288.0	288.8	294.4	295.2	293.6	294.4
52.5°	300.0	291.2	283.2	277.6	273.6	274.4	276.8	279.2	281.6	280.0	278.4
55°	291.2	280.8	273.6	267.2	262.4	264.0	266.4	269.6	273.6	271.2	268.8
57.5°	283.2	274.4	265.6	259.2	253.6	255.2	257.6	262.4	267.2	262.4	259.2
60°	276.0	267.2	258.4	252.0	245.6	247.2	250.4	255.2	259.2	252.8	248.8
62.5°	258.4	250.4	244.0	240.8	236.8	239.2	241.6	247.2	245.6	239.2	234.4
63°	255.2	247.2	241.6	238.4	235.2	238.4	239.2	244.8	242.4	236.0	232.0
65°	245.6	239.2	233.6	230.4	227.2	228.8	228.8	231.2	228.0	223.2	220.0
67.5°	236.8	229.6	224.0	217.6	214.4	212.8	212.0	211.2	208.8	206.4	205.6
70°	217.6	212.8	208.0	202.4	197.6	194.4	192.8	191.2	189.6	188.8	188.0
72.5°	196.8	192.8	188.0	184.8	180.8	178.4	174.4	173.6	172.0	170.4	169.6
75°	174.4	169.6	168.0	164.8	162.4	160.8	157.6	156.8	155.2	152.8	152.0
77.5°	154.4	152.8	150.4	149.6	145.6	143.2	141.6	140.8	139.2	137.6	136.0
80°	137.6	136.8	135.2	134.4	132.0	128.8	127.2	128.0	125.6	124.8	122.4
82.5°	124.0	124.8	124.8	122.4	120.0	116.0	114.4	116.8	115.2	112.0	108.8
85°	105.6	104.8	105.6	104.8	100.0	96.0	94.4	96.0	95.2	90.4	89.6
87.5°	75.2	74.4	72.8	77.6	71.2	57.6	59.2	67.2	64.8	62.4	60.8
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2
2.5°	1341.6	1339.2	1340.8	1341.6	1339.2	1344.8	1339.2	1340.0	1341.6	1336.8	1336.0
5°	1376.8	1376.8	1383.2	1384.0	1383.2	1390.4	1389.6	1390.4	1388.8	1388.0	1384.8
7.5°	1405.6	1408.8	1413.6	1420.8	1423.2	1428.8	1430.4	1431.2	1434.4	1437.6	1436.0
10°	1426.4	1435.2	1439.2	1446.4	1453.6	1457.6	1461.6	1468.0	1470.4	1472.8	1469.6
12.5°	1440.8	1451.2	1457.6	1466.4	1475.2	1481.6	1488.8	1496.8	1504.8	1507.2	1503.2
15°	1433.6	1445.6	1455.2	1464.8	1478.4	1490.4	1504.0	1518.4	1528.8	1532.8	1528.0
17.5°	1388.8	1400.8	1415.2	1429.6	1444.0	1466.4	1485.6	1509.6	1526.4	1538.4	1540.0
20°	1327.2	1334.4	1355.2	1369.6	1392.8	1419.2	1448.0	1476.0	1495.2	1516.8	1529.6
22.5°	1236.0	1250.4	1273.6	1298.4	1321.6	1356.0	1386.4	1423.2	1456.0	1485.6	1513.6
25°	1124.8	1144.8	1172.0	1206.4	1236.8	1273.6	1317.6	1358.4	1413.6	1460.0	1520.0
27.5°	1004.8	1041.6	1079.2	1115.2	1148.8	1190.4	1236.0	1281.6	1344.8	1419.2	1497.6
30°	891.2	921.6	968.8	1010.4	1049.6	1100.8	1148.0	1198.4	1258.4	1346.4	1435.2
32.5°	772.8	797.6	834.4	885.6	931.2	991.2	1032.8	1092.8	1162.4	1255.2	1356.0
35°	650.4	684.8	714.4	749.6	784.0	844.0	906.4	972.8	1052.8	1152.0	1262.4
37.5°	542.4	564.0	578.4	614.4	644.8	696.0	768.8	848.8	936.8	1037.6	1156.0
40°	452.8	466.4	482.4	506.4	532.0	578.4	645.6	735.2	827.2	928.0	1046.4
42.5°	391.2	400.0	401.6	420.0	444.0	489.6	543.2	625.6	727.2	832.8	951.2
45°	348.8	348.8	348.0	356.0	375.2	414.4	463.2	536.8	633.6	744.0	867.2
47.5°	319.2	321.6	320.8	324.0	336.8	365.6	409.6	472.0	560.0	668.0	792.0
50°	296.8	300.0	300.8	301.6	306.4	330.4	368.0	418.4	496.8	600.0	724.8
52.5°	279.2	280.0	280.0	279.2	280.8	294.4	325.6	372.0	444.8	537.6	657.6
55°	269.6	270.4	270.4	270.4	270.4	279.2	301.6	339.2	397.6	484.8	593.6
57.5°	258.4	258.4	260.0	260.0	260.0	263.2	279.2	310.4	355.2	424.8	521.6
60°	248.8	251.2	254.4	255.2	254.4	254.4	262.4	283.2	312.8	363.2	444.8
62.5°	234.4	237.6	241.6	243.2	244.0	242.4	246.4	255.2	272.8	299.2	354.4
63°	232.0	235.2	238.4	240.0	240.8	239.2	242.4	249.6	264.0	285.6	335.2
65°	221.6	225.6	226.4	227.2	226.4	225.6	224.8	224.8	228.8	236.8	263.2
67.5°	207.2	209.6	209.6	211.2	207.2	205.6	204.0	202.4	200.0	200.8	210.4
70°	190.4	192.0	191.2	190.4	188.8	186.4	184.8	182.4	177.6	176.0	180.8
72.5°	171.2	172.8	172.8	172.8	169.6	168.0	166.4	164.8	163.2	164.8	166.4
75°	153.6	153.6	155.2	154.4	152.0	150.4	149.6	148.8	148.8	148.8	148.0
77.5°	136.8	136.0	136.0	133.6	132.0	131.2	132.8	133.6	132.8	131.2	130.4
80°	122.4	118.4	114.4	111.2	110.4	112.0	113.6	118.4	116.0	116.0	114.4
82.5°	104.0	95.2	89.6	90.4	88.0	88.8	90.4	96.0	94.4	95.2	98.4
85°	83.2	75.2	66.4	68.0	68.0	66.4	70.4	72.0	73.6	77.6	74.4
87.5°	58.4	51.2	42.4	36.8	38.4	40.0	41.6	40.0	35.2	36.8	36.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2
2.5°	1334.4	1335.2	1335.2	1329.6	1328.0	1329.6	1328.8	1328.8	1324.0	1324.8	1323.2
5°	1383.2	1384.8	1380.0	1376.0	1370.4	1369.6	1368.8	1365.6	1362.4	1356.0	1352.8
7.5°	1435.2	1428.0	1426.4	1419.2	1416.8	1410.4	1405.6	1400.8	1396.8	1393.6	1391.2
10°	1468.0	1462.4	1460.8	1448.0	1444.0	1436.0	1431.2	1425.6	1420.8	1416.0	1415.2
12.5°	1497.6	1488.0	1482.4	1464.8	1456.8	1448.0	1444.0	1439.2	1437.6	1436.8	1440.0
15°	1520.8	1507.2	1496.8	1480.8	1474.4	1469.6	1470.4	1468.0	1477.6	1483.2	1493.6
17.5°	1536.0	1530.4	1528.0	1516.0	1520.0	1520.0	1531.2	1536.8	1554.4	1568.8	1583.2
20°	1544.0	1554.4	1574.4	1578.4	1588.0	1598.4	1615.2	1624.8	1643.2	1664.0	1684.0
22.5°	1551.2	1595.2	1636.0	1666.4	1688.0	1712.0	1724.0	1744.0	1756.8	1772.0	1802.4
25°	1591.2	1664.8	1736.8	1776.0	1827.2	1861.6	1888.8	1908.8	1931.2	1944.0	1978.4
27.5°	1580.0	1673.6	1769.6	1841.6	1921.6	1986.4	2044.0	2082.4	2111.2	2157.6	2186.4
30°	1528.8	1637.6	1753.6	1856.0	1968.0	2073.6	2173.6	2263.2	2340.0	2402.4	2444.8
32.5°	1456.0	1580.8	1716.8	1843.2	1986.4	2127.2	2271.2	2408.0	2538.4	2641.6	2706.4
35°	1374.4	1508.8	1659.2	1808.8	1980.8	2164.8	2359.2	2543.2	2732.0	2896.8	3026.4
37.5°	1275.2	1420.8	1585.6	1759.2	1956.8	2177.6	2422.4	2672.8	2913.6	3163.2	3345.6
40°	1171.2	1313.6	1484.8	1683.2	1911.2	2171.2	2471.2	2796.0	3144.8	3466.4	3744.0
42.5°	1082.4	1221.6	1400.8	1596.8	1842.4	2147.2	2504.0	2906.4	3336.0	3752.8	4121.6
45°	995.2	1144.0	1324.8	1532.0	1800.0	2137.6	2546.4	3002.4	3492.8	3987.2	4457.6
47.5°	926.4	1073.6	1256.0	1478.4	1765.6	2132.0	2586.4	3092.0	3620.8	4161.6	4719.2
50°	860.8	1001.6	1179.2	1413.6	1729.6	2123.2	2610.4	3163.2	3720.8	4298.4	4904.8
52.5°	793.6	940.0	1112.8	1340.0	1682.4	2105.6	2617.6	3219.2	3824.0	4429.6	5078.4
55°	725.6	872.0	1044.8	1280.0	1618.4	2071.2	2612.0	3260.0	3932.0	4568.0	5236.8
57.5°	642.4	786.4	967.2	1204.0	1536.0	2002.4	2584.8	3277.6	3999.2	4697.6	5396.0
60°	548.8	684.8	856.0	1097.6	1435.2	1903.2	2524.0	3252.8	4029.6	4783.2	5564.8
62.5°	431.2	549.6	707.2	947.2	1288.8	1760.0	2391.2	3143.2	3956.0	4761.6	5637.6
63°	404.8	519.2	681.6	907.2	1245.6	1710.4	2352.0	3105.6	3923.2	4741.6	5628.8
65°	308.8	393.6	528.0	729.6	1052.8	1481.6	2145.6	2892.8	3716.8	4542.4	5490.4
67.5°	228.0	272.0	354.4	489.6	740.8	1152.8	1758.4	2498.4	3278.4	4054.4	5019.2
70°	188.8	205.6	244.0	313.6	458.4	764.8	1242.4	1901.6	2635.2	3303.2	4174.4
72.5°	168.8	180.8	198.4	229.6	289.6	448.8	808.0	1234.4	1835.2	2412.8	3148.8
75°	151.2	159.2	173.6	192.0	219.2	280.8	427.2	732.0	1121.6	1625.6	2160.0
77.5°	132.8	140.8	155.2	169.6	187.2	213.6	264.8	416.8	671.2	948.8	1325.6
80°	115.2	119.2	131.2	152.0	164.8	186.4	203.2	260.8	365.6	496.8	706.4
82.5°	95.2	96.0	104.0	120.0	136.0	144.0	148.8	164.0	210.4	262.4	346.4
85°	68.0	64.8	69.6	76.0	88.8	81.6	87.2	92.0	112.0	135.2	248.0
87.5°	30.4	24.0	28.0	31.2	28.0	19.2	28.0	23.2	28.8	56.8	64.0
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°	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	0°
2.5°	1324.8	1320.0	1320.0	1319.2	1320.0	1318.4	1315.2	1315.2	1317.6	1316.8	1316.8	2.5°
5°	1352.8	1346.4	1344.8	1344.0	1344.0	1340.0	1335.2	1332.8	1332.0	1328.8	1326.4	5°
7.5°	1389.6	1385.6	1388.0	1383.2	1381.6	1380.8	1374.4	1369.6	1362.4	1359.2	1347.2	7.5°
10°	1420.0	1417.6	1424.0	1423.2	1424.0	1424.0	1415.2	1410.4	1400.0	1394.4	1379.2	10°
12.5°	1446.4	1448.0	1460.0	1460.0	1462.4	1465.6	1460.8	1450.4	1446.4	1440.8	1424.8	12.5°
15°	1513.6	1520.0	1528.8	1543.2	1547.2	1548.0	1552.0	1543.2	1532.8	1518.4	1499.2	15°
17.5°	1604.8	1617.6	1647.2	1668.0	1672.0	1676.0	1673.6	1672.0	1652.8	1640.8	1620.8	17.5°
20°	1719.2	1750.4	1792.0	1820.8	1833.6	1835.2	1851.2	1840.0	1822.4	1798.4	1769.6	20°
22.5°	1847.2	1899.2	1952.0	1994.4	2019.2	2030.4	2047.2	2031.2	2008.0	1993.6	1955.2	22.5°
25°	2022.4	2079.2	2140.0	2173.6	2236.8	2255.2	2264.8	2260.0	2236.0	2246.4	2211.2	25°
27.5°	2262.4	2311.2	2396.8	2439.2	2498.4	2532.8	2525.6	2565.6	2572.8	2597.6	2601.6	27.5°
30°	2524.0	2604.8	2720.0	2805.6	2896.0	2954.4	3000.8	3036.0	3076.8	3145.6	3187.2	30°
32.5°	2806.4	2923.2	3070.4	3252.0	3444.0	3600.8	3777.6	3808.0	3899.2	3872.8	3855.2	32.5°
35°	3120.8	3268.0	3456.8	3695.2	3974.4	4233.6	4404.0	4489.6	4525.6	4545.6	4424.0	35°
37.5°	3541.6	3740.8	3951.2	4211.2	4424.8	4667.2	4863.2	5076.0	5173.6	5127.2	4894.4	37.5°
40°	4008.0	4194.4	4479.2	4692.0	4944.0	5343.2	5608.8	5864.8	5944.8	5790.4	5425.6	40°
42.5°	4476.0	4732.0	5040.8	5343.2	5632.8	5994.4	6346.4	6599.2	6687.2	6423.2	5990.4	42.5°
45°	4892.8	5220.8	5584.0	5894.4	6299.2	6772.0	7203.2	7406.4	7390.4	6966.4	6479.2	45°
47.5°	5256.0	5681.6	6091.2	6509.6	6917.6	7451.2	7878.4	8112.0	7946.4	7500.8	6948.8	47.5°
50°	5556.0	6070.4	6564.8	7045.6	7546.4	8113.6	8525.6	8741.6	8489.6	7925.6	7308.8	50°
52.5°	5784.0	6421.6	6991.2	7528.8	8127.2	8740.0	9106.4	9236.8	8844.0	8254.4	7578.4	52.5°
55°	5999.2	6720.0	7350.4	7960.8	8705.6	9255.2	9598.4	9574.4	9067.2	8397.6	7747.2	55°
57.5°	6161.6	6974.4	7645.6	8340.8	9143.2	9730.4	9928.8	9770.4	9160.0	8440.0	7796.0	57.5°
60°	6366.4	7172.8	7908.0	8684.0	9559.2	10056.0	10082.4	9798.4	9133.6	8360.0	7727.2	60°
62.5°	6497.6	7296.8	8075.2	8919.2	9876.0	10239.2	10050.4	9677.6	8981.6	8162.4	7569.6	62.5°
63°	6510.4	7308.8	8088.8	8942.4	9920.8	10247.2	10020.8	9623.2	8936.8	8108.0	7528.0	63°
65°	6452.8	7274.4	8026.4	8900.8	9932.0	10152.8	9804.0	9400.0	8689.6	7830.4	7283.2	65°
67.5°	6050.4	6904.8	7622.4	8442.4	9500.0	9622.4	9272.8	8833.6	8166.4	7232.0	6748.0	67.5°
70°	5329.6	6141.6	6650.4	7412.0	8342.4	8488.8	8176.0	7836.0	7243.2	6462.4	6060.8	70°
72.5°	4293.6	5091.2	5396.8	5980.0	6719.2	6687.2	6467.2	6424.8	6112.8	5457.6	5216.0	72.5°
75°	3209.6	3968.8	4097.6	4335.2	4748.0	4737.6	4788.8	4971.2	5127.2	4740.0	4430.4	75°
77.5°	2116.8	2872.0	2952.0	3228.8	3343.2	3656.8	4024.8	4483.2	4710.4	4552.0	4172.0	77.5°
80°	1171.2	1964.8	1948.8	2056.8	2259.2	2715.2	3272.8	3953.6	4408.0	4294.4	3878.4	80°
82.5°	608.8	1241.6	1223.2	1242.4	1430.4	1813.6	2237.6	2794.4	3264.0	3274.4	3134.4	82.5°
85°	452.8	891.2	944.0	987.2	1112.0	1245.6	1323.2	1501.6	1759.2	1999.2	2084.8	85°
87.5°	166.4	535.2	666.4	716.0	719.2	702.4	572.0	629.6	572.8	677.6	946.4	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°
1323.2	1323.2	1323.2	1323.2	1323.2	1323.2	1323.2
1318.4	1318.4	1317.6	1319.2	1320.0	1322.4	1321.6
1324.0	1321.6	1319.2	1317.6	1316.0	1316.8	1315.2
1338.4	1330.4	1324.0	1318.4	1313.6	1312.8	1308.0
1370.4	1356.0	1344.0	1335.2	1325.6	1320.8	1312.0
1411.2	1395.2	1380.0	1367.2	1356.0	1349.6	1343.2
1482.4	1459.2	1440.8	1427.2	1416.0	1408.8	1402.4
1588.0	1559.2	1531.2	1504.8	1501.6	1484.8	1484.8
1733.6	1694.4	1658.4	1636.0	1625.6	1603.2	1603.2
1935.2	1896.8	1843.2	1816.0	1818.4	1799.2	1808.0
2196.0	2164.0	2108.8	2097.6	2097.6	2076.8	2045.6
2587.2	2576.0	2515.2	2530.4	2498.4	2420.8	2336.8
3168.0	3168.0	3050.4	2965.6	2892.0	2771.2	2623.2
3749.6	3673.6	3493.6	3349.6	3196.8	3012.0	2821.6
4240.8	4038.4	3856.0	3680.0	3450.4	3252.0	2984.8
4655.2	4463.2	4254.4	3986.4	3716.8	3440.0	3096.8
5168.8	4935.2	4621.6	4284.8	3953.6	3572.8	3175.2
5638.4	5345.6	4949.6	4523.2	4101.6	3676.8	3212.8
6080.0	5702.4	5213.6	4701.6	4221.6	3740.8	3228.8
6496.0	5989.6	5420.8	4828.8	4304.0	3775.2	3224.8
6770.4	6200.0	5551.2	4905.6	4353.6	3787.2	3213.6
6942.4	6328.8	5628.0	4948.0	4378.4	3789.6	3212.8
7039.2	6401.6	5669.6	4977.6	4405.6	3804.0	3232.0
7114.4	6459.2	5716.0	5028.0	4470.4	3871.2	3309.6
7185.6	6610.4	5836.8	5120.8	4583.2	3996.8	3480.0
7215.2	6897.6	6082.4	5292.0	4740.8	4198.4	3745.6
7212.8	6952.0	6153.6	5339.2	4782.4	4252.0	3813.6
7125.6	7124.8	6477.6	5564.8	4976.0	4500.0	4097.6
6867.2	7211.2	6836.0	5862.4	5276.8	4908.8	4524.8
6458.4	7106.4	6884.8	5940.8	5490.4	5284.0	4809.6
5754.4	6605.6	6428.0	5606.4	5417.6	5357.6	4816.8
4654.4	5310.4	5234.4	4789.6	4859.2	4982.4	4302.4
3749.6	3728.8	3717.6	3556.0	3852.0	4102.4	3198.4
3132.0	2580.0	2396.0	2333.6	2821.6	3013.6	1984.8
2928.0	2317.6	1859.2	1780.8	2114.4	2216.8	1196.8
2237.6	2250.4	1948.0	1669.6	1644.8	1505.6	876.8
1095.2	1113.6	1176.8	1074.4	921.6	776.8	276.0
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)