

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: P146049

Luminaire Tested: **LDRL-SLR-E04-E-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146049
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-7030
Description: RL LED ROADWAY LARGE CUTOFF COBRAHEAD LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9840.2 lumens
Efficiency: N/A
Efficacy: 101.2 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

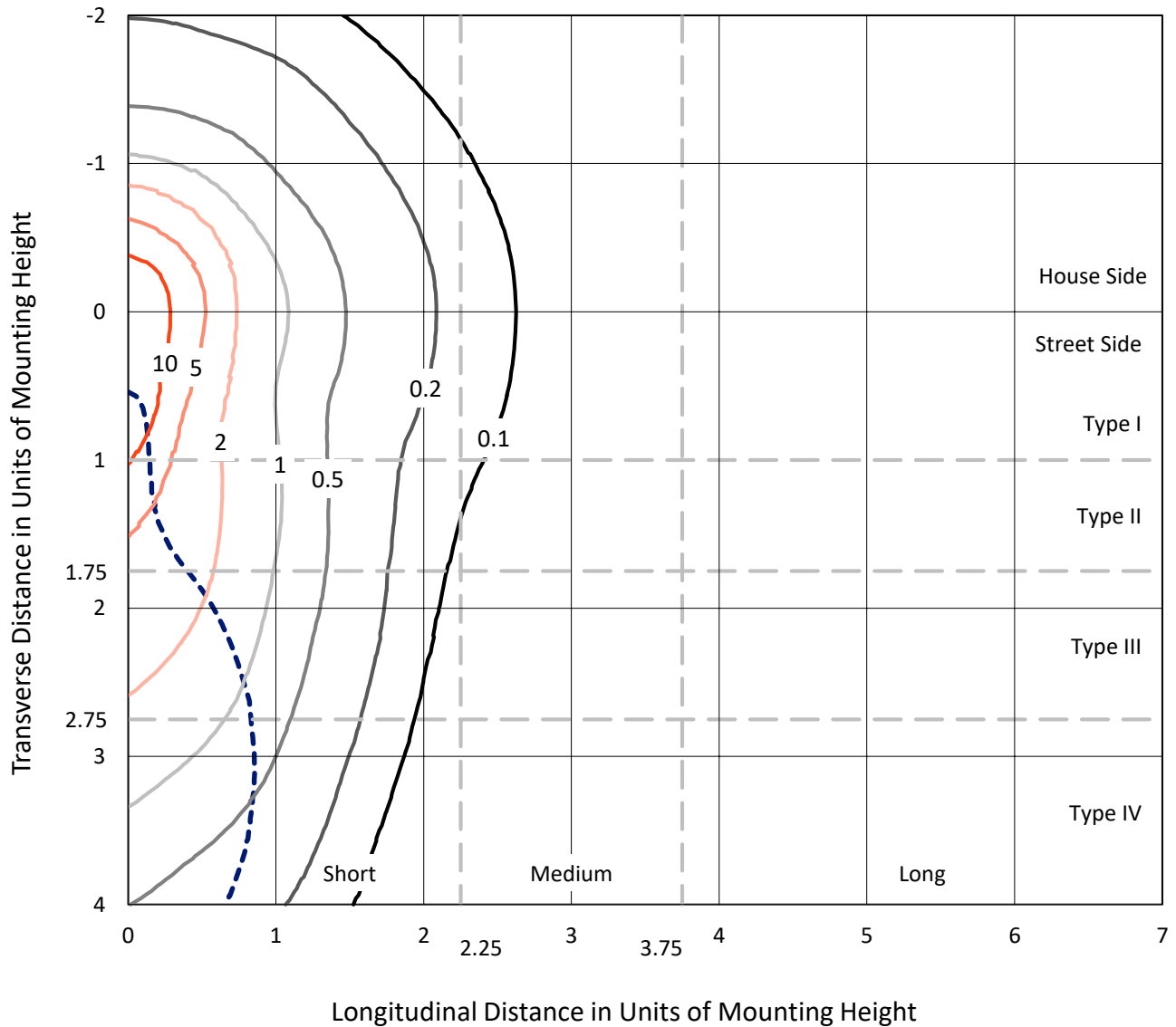
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

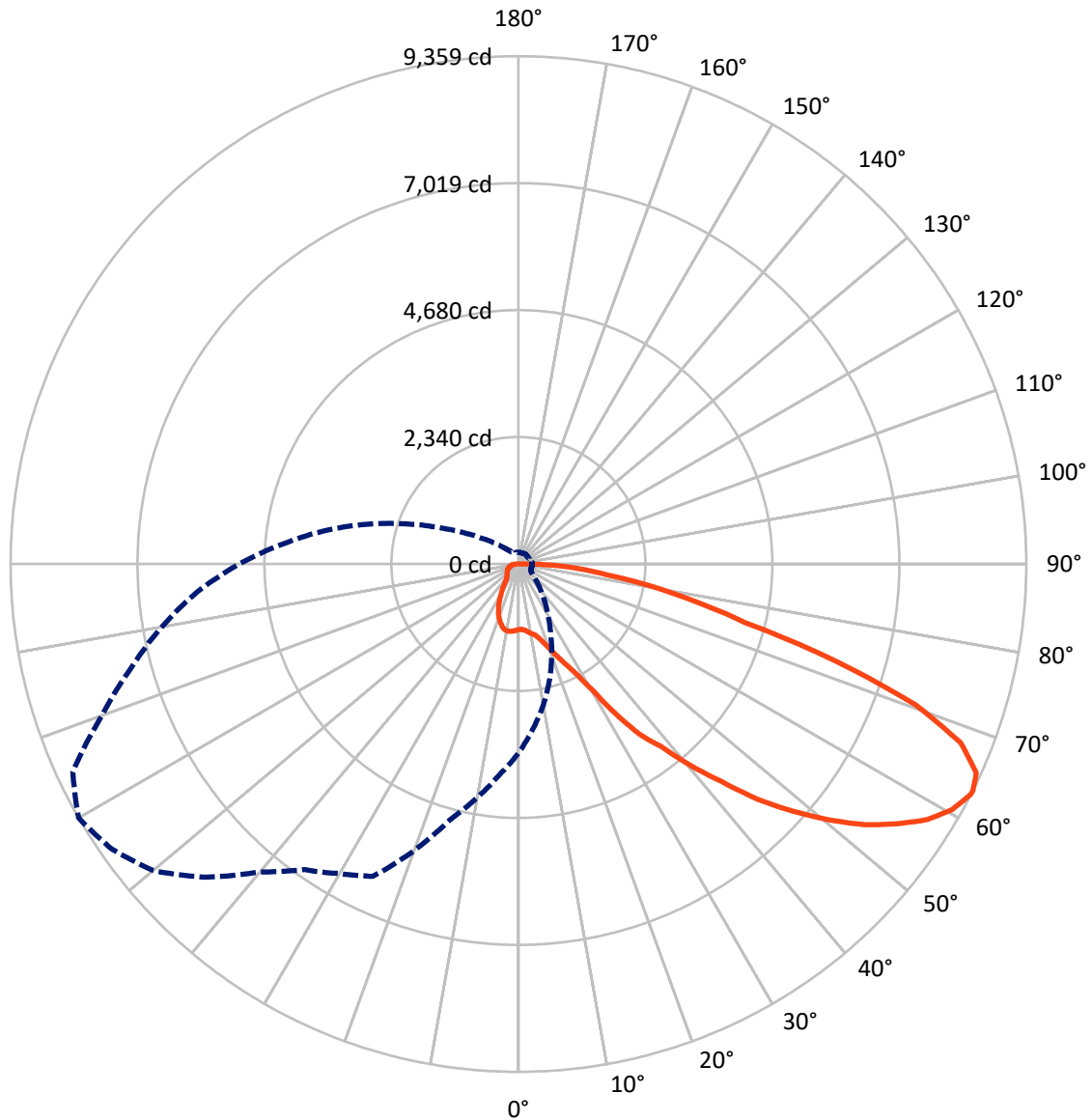
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2059.8	0.0	2059.8
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	7780.4	0.0	7780.4
	% Fixture	79.1	0.0	79.1
Total	Lumens	9840.2	0.0	9840.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	118.7	1.2
10°-20°	370.4	3.8
20°-30°	655.1	6.7
30°-40°	1034.2	10.5
40°-50°	1520.8	15.5
50°-60°	2003.4	20.4
60°-70°	2232.9	22.7
70°-80°	1467.1	14.9
80°-90°	437.5	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°	9840.2	100.0
0°-180°	9840.2	100.0



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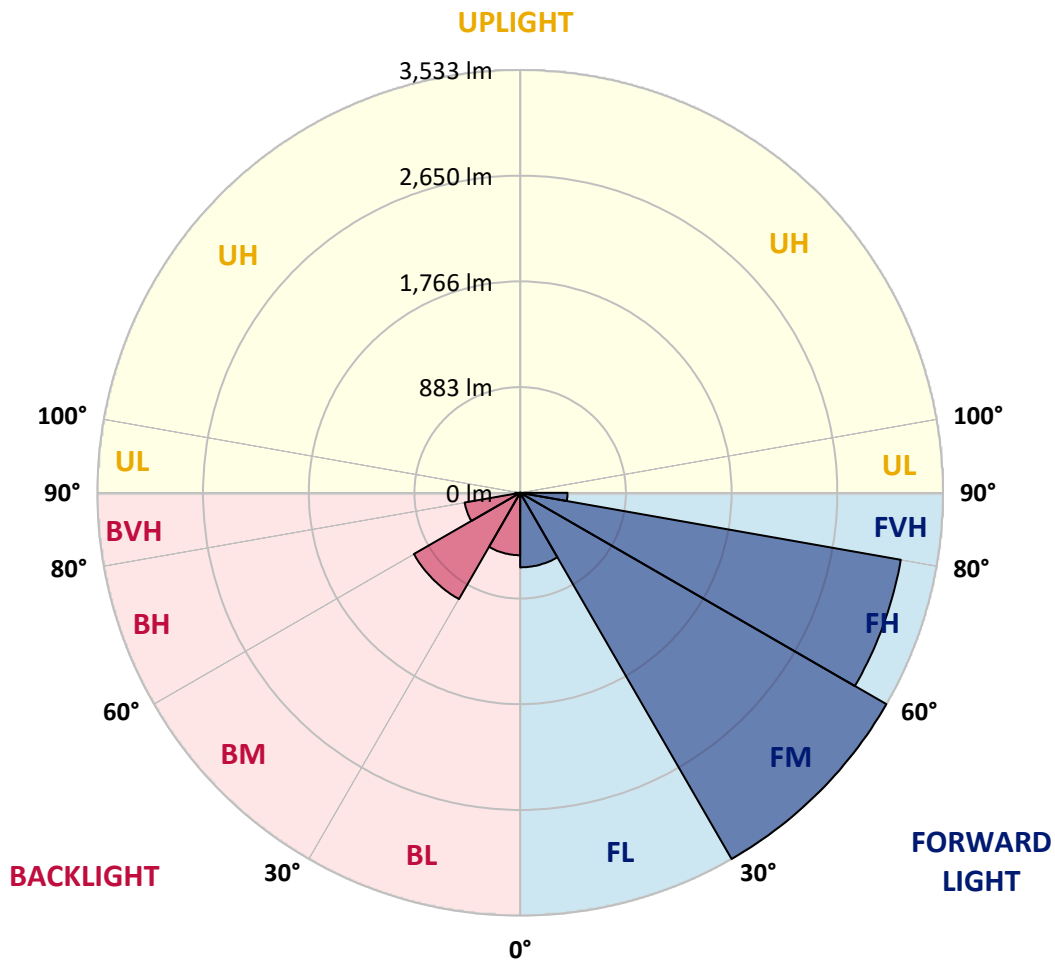
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	622.8	6.3			
FM	(30°-60°)	3532.9	35.9			
FH	(60°-80°)	3229.3	32.8			G2/5000
FVH	(80°-90°)	395.4	4.0			G3/500
BL	(0°-30°)	521.4	5.3	B2/1000		
BM	(30°-60°)	1025.5	10.4	B2/2500		
BH	(60°-80°)	470.8	4.8	B1/500		G1/500
BVH	(80°-90°)	42.1	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°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1207.1	1209.3	1209.3	1207.1	1209.3	1208.5	1208.5	1210.7	1211.5	1215.1	1212.9
5°	1201.2	1202.0	1202.7	1201.2	1202.0	1202.0	1203.4	1205.6	1206.4	1210.7	1208.5
7.5°	1194.7	1196.1	1193.2	1193.9	1196.1	1199.0	1199.0	1202.0	1207.1	1209.3	1208.5
10°	1198.3	1196.9	1194.7	1193.9	1195.4	1196.1	1197.6	1202.7	1207.1	1209.3	1212.9
12.5°	1226.8	1222.4	1220.2	1219.5	1220.2	1218.8	1223.9	1225.4	1226.8	1229.7	1228.3
15°	1280.9	1275.0	1271.4	1267.7	1275.8	1272.1	1272.1	1267.7	1260.4	1249.5	1235.6
17.5°	1356.1	1349.6	1346.6	1345.2	1345.9	1339.3	1326.2	1305.0	1279.4	1250.2	1223.2
20°	1464.3	1474.5	1470.1	1450.4	1443.1	1413.9	1372.2	1328.4	1283.8	1237.0	1192.5
22.5°	1651.3	1645.5	1625.8	1576.8	1533.0	1467.2	1392.7	1321.8	1256.0	1188.1	1129.6
25°	1868.3	1819.4	1763.9	1667.4	1566.6	1458.4	1351.0	1267.0	1179.3	1104.8	1034.6
27.5°	2134.3	2028.4	1886.6	1729.5	1579.0	1435.1	1307.9	1196.9	1096.8	1017.1	938.9
30°	2395.9	2219.1	2021.8	1813.5	1610.4	1416.1	1248.0	1119.4	1004.0	901.7	822.7
32.5°	2577.1	2363.0	2117.5	1860.3	1613.3	1385.4	1182.2	1028.8	898.7	795.7	700.7
35°	2726.2	2458.7	2151.1	1853.0	1566.6	1313.8	1088.0	917.7	779.6	673.0	589.7
37.5°	2828.5	2507.7	2148.9	1810.6	1483.3	1199.8	979.8	806.7	678.1	578.7	502.0
40°	2900.1	2523.0	2120.4	1738.3	1387.6	1089.4	864.4	706.6	594.0	516.6	461.1
42.5°	2934.4	2512.8	2078.1	1669.6	1292.6	1000.3	777.4	639.3	548.0	489.6	448.6
45°	2949.0	2488.0	2030.6	1602.4	1215.1	923.6	732.9	618.9	547.3	496.9	452.3
47.5°	2945.4	2460.9	1988.2	1546.9	1169.1	903.1	741.6	646.7	574.3	511.5	454.5
50°	2935.1	2436.1	1961.1	1526.4	1168.4	933.8	790.6	693.4	605.7	524.6	452.3
52.5°	2934.4	2433.9	1975.8	1550.5	1210.7	1003.2	864.4	747.5	636.4	539.2	453.0
55°	2951.9	2473.4	2037.9	1615.5	1313.0	1100.4	947.7	805.2	670.8	549.5	450.8
57.5°	3022.8	2572.0	2155.5	1760.9	1444.6	1218.8	1028.1	848.3	683.9	546.5	440.6
60°	3178.5	2745.2	2336.7	1966.3	1613.3	1326.9	1075.6	862.9	678.1	529.0	418.7
62.5°	3421.0	2995.8	2585.1	2167.9	1763.1	1391.9	1086.5	851.2	654.7	499.8	391.6
63°	3483.2	3053.5	2635.6	2209.6	1788.7	1398.5	1085.8	846.9	648.1	492.5	385.1
65°	3742.5	3301.2	2838.0	2346.9	1857.4	1411.7	1069.0	819.1	618.9	458.1	355.1
67.5°	4132.7	3574.5	3038.9	2474.8	1895.4	1388.3	1016.4	750.4	543.6	398.2	310.5
70°	4392.8	3755.7	3158.7	2516.5	1850.8	1281.6	895.8	629.1	444.3	328.1	265.2
72.5°	4399.4	3593.5	2996.5	2300.2	1598.0	1057.3	701.5	475.7	345.6	266.7	228.7
75°	3929.6	3036.7	2449.2	1888.8	1229.7	747.5	493.2	347.1	265.2	219.9	198.0
77.5°	2921.3	2215.4	1767.5	1270.7	798.6	484.4	343.4	257.2	210.4	181.9	165.9
80°	1812.8	1384.6	1072.6	759.9	478.6	322.2	251.4	204.6	176.8	152.0	138.8
82.5°	1093.1	775.3	605.7	458.9	306.2	232.4	193.6	172.4	149.8	127.9	117.6
85°	800.8	554.6	406.3	283.5	189.2	153.4	135.9	131.5	116.2	98.6	92.8
87.5°	252.1	264.5	274.7	167.3	91.3	69.4	59.2	69.4	66.5	46.8	51.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1216.6	1219.5	1217.3	1217.3	1215.9	1215.1	1220.2	1218.8	1220.2	1219.5	1221.0
5°	1212.2	1214.4	1212.9	1214.4	1212.9	1212.9	1219.5	1219.5	1222.4	1223.9	1227.5
7.5°	1213.7	1214.4	1213.7	1215.9	1214.4	1212.9	1216.6	1218.8	1223.9	1228.3	1231.9
10°	1218.8	1221.0	1220.2	1220.2	1215.9	1212.9	1215.1	1216.6	1221.7	1223.9	1228.3
12.5°	1231.2	1228.3	1222.4	1218.8	1208.5	1202.7	1199.8	1198.3	1202.0	1204.9	1207.1
15°	1228.3	1212.2	1199.0	1188.1	1172.7	1163.2	1155.9	1155.2	1155.9	1156.7	1158.9
17.5°	1198.3	1176.4	1150.1	1136.2	1118.7	1108.4	1103.3	1099.7	1098.9	1100.4	1104.1
20°	1155.2	1123.1	1093.8	1069.7	1050.7	1034.6	1038.3	1030.3	1033.9	1036.1	1042.7
22.5°	1089.4	1044.9	1011.3	982.0	959.4	942.6	942.6	935.3	936.7	943.3	952.1
25°	982.8	941.1	892.9	872.4	846.9	835.2	833.0	831.5	837.4	845.4	850.5
27.5°	886.3	829.3	781.8	754.8	727.8	730.7	716.1	724.8	731.4	738.0	743.8
30°	756.3	709.5	666.4	639.3	607.2	607.9	610.1	611.6	617.4	626.2	637.9
32.5°	631.3	580.9	540.7	511.5	492.5	486.6	478.6	491.7	499.1	507.8	519.5
35°	528.3	475.7	442.1	416.5	405.5	397.5	395.3	393.8	400.4	404.8	414.3
37.5°	454.5	418.7	393.8	375.6	365.3	356.6	354.4	352.9	352.2	350.7	356.6
40°	424.5	396.0	374.8	358.0	348.5	343.4	341.2	338.3	335.4	331.7	331.0
42.5°	415.8	385.1	360.2	343.4	336.1	335.4	335.4	333.9	331.0	325.9	322.2
45°	412.1	374.8	346.3	333.2	328.1	328.8	328.8	328.8	326.6	321.5	315.7
47.5°	405.5	362.4	333.2	322.2	320.0	321.5	323.0	323.0	321.5	317.1	310.5
50°	393.1	343.4	312.7	302.5	301.8	302.5	302.5	304.0	302.5	298.8	293.0
52.5°	383.6	328.8	297.4	289.3	289.3	288.6	287.9	287.9	287.2	284.2	279.9
55°	374.8	319.3	290.8	284.2	285.7	285.7	284.2	283.5	280.6	276.9	272.5
57.5°	362.4	309.1	284.2	279.9	281.3	280.6	279.9	279.1	276.2	271.8	266.0
60°	340.5	290.8	271.1	268.2	270.4	271.1	274.0	274.7	273.3	268.2	260.1
62.5°	316.4	268.2	253.5	251.4	253.5	255.7	257.9	256.5	256.5	251.4	244.0
63°	308.3	264.5	248.4	248.4	250.6	252.8	254.3	252.8	253.5	247.7	240.4
65°	290.1	251.4	238.9	239.7	241.9	243.3	244.0	244.0	243.3	238.9	232.4
67.5°	259.4	232.4	225.0	228.7	231.6	232.4	232.4	233.8	232.4	229.4	223.6
70°	231.6	214.1	209.0	213.4	214.8	215.6	215.6	215.6	214.1	211.2	206.1
72.5°	210.4	201.7	200.9	200.2	200.9	198.7	198.7	197.3	193.6	191.4	187.1
75°	187.1	182.7	183.4	182.7	181.2	180.5	176.8	175.4	171.0	168.1	162.2
77.5°	160.7	161.5	160.7	161.5	162.9	163.7	158.6	154.9	151.3	148.3	145.4
80°	133.7	135.2	133.7	135.2	135.9	135.9	130.8	124.9	122.0	124.2	124.9
82.5°	119.1	119.1	113.3	114.7	113.3	111.1	107.4	105.2	103.0	101.6	105.2
85°	94.3	95.0	96.4	95.0	92.1	89.9	86.2	83.3	81.1	83.3	88.4
87.5°	56.3	60.6	58.5	58.5	57.7	57.7	54.8	53.3	51.1	59.9	64.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1220.2	1222.4	1223.2	1222.4	1223.2	1224.6	1218.8	1224.6	1225.4	1221.0	1222.4
5°	1230.5	1234.1	1239.2	1239.2	1242.9	1245.1	1242.2	1250.2	1251.7	1250.9	1254.6
7.5°	1237.8	1242.9	1249.5	1253.1	1259.7	1262.6	1264.8	1272.1	1273.6	1276.5	1279.4
10°	1237.0	1244.3	1250.2	1260.4	1268.5	1274.3	1278.7	1286.7	1289.7	1294.0	1296.2
12.5°	1215.9	1223.9	1234.8	1249.5	1264.1	1273.6	1285.3	1297.0	1301.3	1307.2	1310.8
15°	1168.4	1174.9	1190.3	1209.3	1229.0	1253.1	1269.9	1288.2	1296.2	1302.1	1307.2
17.5°	1106.2	1112.1	1126.0	1142.8	1169.1	1192.5	1218.0	1245.8	1259.7	1266.3	1268.5
20°	1048.5	1057.3	1060.9	1080.7	1089.4	1112.8	1134.7	1165.4	1183.0	1194.7	1202.0
22.5°	957.9	962.3	981.3	989.3	995.9	1010.5	1037.6	1064.6	1088.0	1107.0	1112.8
25°	857.8	869.5	879.7	886.3	901.7	902.4	924.3	943.3	972.5	990.8	1005.4
27.5°	747.5	765.0	770.9	775.3	786.9	800.8	808.9	827.9	844.7	865.9	892.2
30°	636.4	653.2	664.9	671.5	682.5	695.6	701.5	713.9	735.8	759.2	779.6
32.5°	532.7	550.2	556.0	577.2	580.2	592.6	597.0	616.7	629.1	648.8	673.0
35°	431.1	449.4	466.9	478.6	491.7	491.0	502.7	521.0	531.9	552.4	568.5
37.5°	361.7	372.6	385.1	398.2	412.8	423.8	434.8	442.8	451.6	465.4	480.1
40°	331.0	333.9	339.0	347.1	357.3	365.3	373.4	380.0	386.5	397.5	407.0
42.5°	318.6	316.4	316.4	314.9	318.6	323.0	329.5	331.7	342.0	348.5	352.2
45°	309.8	304.7	301.0	296.7	295.2	296.7	300.3	305.4	312.0	314.2	314.2
47.5°	304.7	296.7	290.8	284.2	280.6	280.6	282.8	286.4	290.1	290.8	290.1
50°	287.2	279.1	271.8	266.0	263.0	263.0	263.8	268.9	269.6	268.2	268.9
52.5°	274.0	266.0	258.7	253.5	249.9	250.6	252.8	255.0	257.2	255.7	254.3
55°	266.0	256.5	249.9	244.0	239.7	241.1	243.3	246.2	249.9	247.7	245.5
57.5°	258.7	250.6	242.6	236.7	231.6	233.1	235.3	239.7	244.0	239.7	236.7
60°	252.1	244.0	236.0	230.2	224.3	225.8	228.7	233.1	236.7	230.9	227.2
62.5°	236.0	228.7	222.9	219.9	216.3	218.5	220.7	225.8	224.3	218.5	214.1
63°	233.1	225.8	220.7	217.7	214.8	217.7	218.5	223.6	221.4	215.6	211.9
65°	224.3	218.5	213.4	210.4	207.5	209.0	209.0	211.2	208.2	203.9	200.9
67.5°	216.3	209.7	204.6	198.7	195.8	194.4	193.6	192.9	190.7	188.5	187.8
70°	198.7	194.4	190.0	184.9	180.5	177.6	176.1	174.6	173.2	172.4	171.7
72.5°	179.7	176.1	171.7	168.8	165.1	162.9	159.3	158.6	157.1	155.6	154.9
75°	159.3	154.9	153.4	150.5	148.3	146.9	143.9	143.2	141.8	139.6	138.8
77.5°	141.0	139.6	137.4	136.6	133.0	130.8	129.3	128.6	127.1	125.7	124.2
80°	125.7	124.9	123.5	122.8	120.6	117.6	116.2	116.9	114.7	114.0	111.8
82.5°	113.3	114.0	114.0	111.8	109.6	105.9	104.5	106.7	105.2	102.3	99.4
85°	96.4	95.7	96.4	95.7	91.3	87.7	86.2	87.7	87.0	82.6	81.8
87.5°	68.7	68.0	66.5	70.9	65.0	52.6	54.1	61.4	59.2	57.0	55.5
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°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1225.4	1223.2	1224.6	1225.4	1223.2	1228.3	1223.2	1223.9	1225.4	1221.0	1220.2
5°	1257.5	1257.5	1263.3	1264.1	1263.3	1269.9	1269.2	1269.9	1268.5	1267.7	1264.8
7.5°	1283.8	1286.7	1291.1	1297.7	1299.9	1305.0	1306.5	1307.2	1310.1	1313.0	1311.6
10°	1302.8	1310.8	1314.5	1321.1	1327.6	1331.3	1335.0	1340.8	1343.0	1345.2	1342.3
12.5°	1316.0	1325.5	1331.3	1339.3	1347.4	1353.2	1359.8	1367.1	1374.4	1376.6	1372.9
15°	1309.4	1320.3	1329.1	1337.9	1350.3	1361.3	1373.7	1386.8	1396.3	1400.0	1395.6
17.5°	1268.5	1279.4	1292.6	1305.7	1318.9	1339.3	1356.9	1378.8	1394.1	1405.1	1406.6
20°	1212.2	1218.8	1237.8	1250.9	1272.1	1296.2	1322.5	1348.1	1365.6	1385.4	1397.1
22.5°	1128.9	1142.1	1163.2	1185.9	1207.1	1238.5	1266.3	1299.9	1329.8	1356.9	1382.4
25°	1027.3	1045.6	1070.4	1101.9	1129.6	1163.2	1203.4	1240.7	1291.1	1333.5	1388.3
27.5°	917.7	951.3	985.7	1018.6	1049.3	1087.3	1128.9	1170.5	1228.3	1296.2	1367.8
30°	814.0	841.7	884.9	922.8	958.7	1005.4	1048.5	1094.6	1149.4	1229.7	1310.8
32.5°	705.8	728.5	762.1	808.9	850.5	905.3	943.3	998.1	1061.7	1146.4	1238.5
35°	594.0	625.5	652.5	684.6	716.1	770.9	827.9	888.5	961.6	1052.2	1153.0
37.5°	495.4	515.1	528.3	561.2	588.9	635.7	702.2	775.3	855.6	947.7	1055.8
40°	413.6	426.0	440.6	462.5	485.9	528.3	589.7	671.5	755.5	847.6	955.7
42.5°	357.3	365.3	366.8	383.6	405.5	447.2	496.1	571.4	664.2	760.6	868.8
45°	318.6	318.6	317.8	325.2	342.7	378.5	423.1	490.3	578.7	679.5	792.1
47.5°	291.5	293.7	293.0	295.9	307.6	333.9	374.1	431.1	511.5	610.1	723.4
50°	271.1	274.0	274.7	275.5	279.9	301.8	336.1	382.1	453.8	548.0	662.0
52.5°	255.0	255.7	255.7	255.0	256.5	268.9	297.4	339.8	406.3	491.0	600.6
55°	246.2	247.0	247.0	247.0	247.0	255.0	275.5	309.8	363.1	442.8	542.2
57.5°	236.0	236.0	237.5	237.5	237.5	240.4	255.0	283.5	324.4	388.0	476.4
60°	227.2	229.4	232.4	233.1	232.4	232.4	239.7	258.7	285.7	331.7	406.3
62.5°	214.1	217.0	220.7	222.1	222.9	221.4	225.0	233.1	249.2	273.3	323.7
63°	211.9	214.8	217.7	219.2	219.9	218.5	221.4	228.0	241.1	260.9	306.2
65°	202.4	206.1	206.8	207.5	206.8	206.1	205.3	205.3	209.0	216.3	240.4
67.5°	189.2	191.4	191.4	192.9	189.2	187.8	186.3	184.9	182.7	183.4	192.2
70°	173.9	175.4	174.6	173.9	172.4	170.2	168.8	166.6	162.2	160.7	165.1
72.5°	156.4	157.8	157.8	157.8	154.9	153.4	152.0	150.5	149.1	150.5	152.0
75°	140.3	140.3	141.8	141.0	138.8	137.4	136.6	135.9	135.9	135.9	135.2
77.5°	124.9	124.2	124.2	122.0	120.6	119.8	121.3	122.0	121.3	119.8	119.1
80°	111.8	108.1	104.5	101.6	100.8	102.3	103.8	108.1	105.9	105.9	104.5
82.5°	95.0	87.0	81.8	82.6	80.4	81.1	82.6	87.7	86.2	87.0	89.9
85°	76.0	68.7	60.6	62.1	62.1	60.6	64.3	65.8	67.2	70.9	68.0
87.5°	53.3	46.8	38.7	33.6	35.1	36.5	38.0	36.5	32.1	33.6	32.9
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
2.5°	1218.8	1219.5	1219.5	1214.4	1212.9	1214.4	1213.7	1213.7	1209.3	1210.0	1208.5
5°	1263.3	1264.8	1260.4	1256.8	1251.7	1250.9	1250.2	1247.3	1244.3	1238.5	1235.6
7.5°	1310.8	1304.3	1302.8	1296.2	1294.0	1288.2	1283.8	1279.4	1275.8	1272.8	1270.7
10°	1340.8	1335.7	1334.2	1322.5	1318.9	1311.6	1307.2	1302.1	1297.7	1293.3	1292.6
12.5°	1367.8	1359.1	1354.0	1337.9	1330.6	1322.5	1318.9	1314.5	1313.0	1312.3	1315.2
15°	1389.0	1376.6	1367.1	1352.5	1346.6	1342.3	1343.0	1340.8	1349.6	1354.7	1364.2
17.5°	1402.9	1397.8	1395.6	1384.6	1388.3	1388.3	1398.5	1403.6	1419.7	1432.9	1446.0
20°	1410.2	1419.7	1438.0	1441.6	1450.4	1459.9	1475.2	1484.0	1500.8	1519.8	1538.1
22.5°	1416.8	1457.0	1494.2	1522.0	1541.7	1563.7	1574.6	1592.9	1604.6	1618.5	1646.2
25°	1453.3	1520.5	1586.3	1622.1	1668.9	1700.3	1725.1	1743.4	1763.9	1775.6	1807.0
27.5°	1443.1	1528.6	1616.3	1682.0	1755.1	1814.3	1866.9	1902.0	1928.3	1970.6	1996.9
30°	1396.3	1495.7	1601.7	1695.2	1797.5	1893.9	1985.3	2067.1	2137.2	2194.2	2233.0
32.5°	1329.8	1443.8	1568.0	1683.5	1814.3	1942.9	2074.4	2199.3	2318.4	2412.7	2471.9
35°	1255.3	1378.1	1515.4	1652.1	1809.2	1977.2	2154.8	2322.8	2495.3	2645.8	2764.2
37.5°	1164.7	1297.7	1448.2	1606.8	1787.2	1988.9	2212.5	2441.2	2661.1	2889.1	3055.7
40°	1069.7	1199.8	1356.1	1537.4	1745.6	1983.1	2257.1	2553.7	2872.3	3166.0	3419.6
42.5°	988.6	1115.7	1279.4	1458.4	1682.8	1961.1	2287.0	2654.6	3046.9	3427.6	3764.5
45°	909.0	1044.9	1210.0	1399.3	1644.0	1952.4	2325.8	2742.2	3190.2	3641.7	4071.4
47.5°	846.1	980.6	1147.2	1350.3	1612.6	1947.3	2362.3	2824.1	3307.1	3801.0	4310.3
50°	786.2	914.8	1077.0	1291.1	1579.7	1939.2	2384.2	2889.1	3398.4	3925.9	4479.8
52.5°	724.8	858.5	1016.4	1223.9	1536.6	1923.2	2390.8	2940.3	3492.7	4045.8	4638.4
55°	662.7	796.4	954.3	1169.1	1478.2	1891.7	2385.7	2977.5	3591.3	4172.2	4783.0
57.5°	586.7	718.3	883.4	1099.7	1402.9	1828.9	2360.8	2993.6	3652.7	4290.6	4928.4
60°	501.2	625.5	781.8	1002.5	1310.8	1738.3	2305.3	2970.9	3680.4	4368.7	5082.6
62.5°	393.8	502.0	645.9	865.1	1177.1	1607.5	2184.0	2870.8	3613.2	4349.0	5149.1
63°	369.7	474.2	622.5	828.6	1137.7	1562.2	2148.2	2836.5	3583.3	4330.7	5141.1
65°	282.0	359.5	482.2	666.4	961.6	1353.2	1959.7	2642.1	3394.7	4148.8	5014.7
67.5°	208.2	248.4	323.7	447.2	676.6	1052.9	1606.0	2281.9	2994.3	3703.1	4584.3
70°	172.4	187.8	222.9	286.4	418.7	698.5	1134.7	1736.8	2406.9	3017.0	3812.7
72.5°	154.2	165.1	181.2	209.7	264.5	409.9	738.0	1127.4	1676.2	2203.7	2876.0
75°	138.1	145.4	158.6	175.4	200.2	256.5	390.2	668.6	1024.4	1484.7	1972.8
77.5°	121.3	128.6	141.8	154.9	171.0	195.1	241.9	380.7	613.0	866.6	1210.7
80°	105.2	108.9	119.8	138.8	150.5	170.2	185.6	238.2	333.9	453.8	645.2
82.5°	87.0	87.7	95.0	109.6	124.2	131.5	135.9	149.8	192.2	239.7	316.4
85°	62.1	59.2	63.6	69.4	81.1	74.5	79.6	84.0	102.3	123.5	226.5
87.5°	27.8	21.9	25.6	28.5	25.6	17.5	25.6	21.2	26.3	51.9	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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	0°
2.5°	1210.0	1205.6	1205.6	1204.9	1205.6	1204.2	1201.2	1201.2	1203.4	1202.7	1202.7	2.5°
5°	1235.6	1229.7	1228.3	1227.5	1227.5	1223.9	1219.5	1217.3	1216.6	1213.7	1211.5	5°
7.5°	1269.2	1265.5	1267.7	1263.3	1261.9	1261.2	1255.3	1250.9	1244.3	1241.4	1230.5	7.5°
10°	1297.0	1294.8	1300.6	1299.9	1300.6	1300.6	1292.6	1288.2	1278.7	1273.6	1259.7	10°
12.5°	1321.1	1322.5	1333.5	1333.5	1335.7	1338.6	1334.2	1324.7	1321.1	1316.0	1301.3	12.5°
15°	1382.4	1388.3	1396.3	1409.5	1413.1	1413.9	1417.5	1409.5	1400.0	1386.8	1369.3	15°
17.5°	1465.7	1477.4	1504.5	1523.5	1527.1	1530.8	1528.6	1527.1	1509.6	1498.6	1480.4	17.5°
20°	1570.2	1598.7	1636.7	1663.0	1674.7	1676.2	1690.8	1680.6	1664.5	1642.6	1616.3	20°
22.5°	1687.1	1734.6	1782.9	1821.6	1844.2	1854.5	1869.8	1855.2	1834.0	1820.9	1785.8	22.5°
25°	1847.2	1899.0	1954.6	1985.3	2043.0	2059.8	2068.6	2064.2	2042.3	2051.8	2019.6	25°
27.5°	2066.4	2110.9	2189.1	2227.8	2281.9	2313.3	2306.8	2343.3	2349.9	2372.5	2376.2	27.5°
30°	2305.3	2379.1	2484.3	2562.5	2645.1	2698.4	2740.8	2772.9	2810.2	2873.0	2911.0	30°
32.5°	2563.2	2669.9	2804.4	2970.2	3145.6	3288.8	3450.3	3478.0	3561.3	3537.2	3521.1	32.5°
35°	2850.4	2984.8	3157.3	3375.0	3630.0	3866.8	4022.4	4100.6	4133.5	4151.7	4040.7	35°
37.5°	3234.7	3416.7	3608.8	3846.3	4041.4	4262.8	4441.8	4636.2	4725.3	4682.9	4470.3	37.5°
40°	3660.7	3831.0	4091.1	4285.4	4515.6	4880.2	5122.8	5356.6	5429.7	5288.7	4955.5	40°
42.5°	4088.2	4322.0	4604.0	4880.2	5144.7	5475.0	5796.5	6027.4	6107.8	5866.6	5471.3	42.5°
45°	4468.8	4768.4	5100.1	5383.7	5753.4	6185.2	6579.0	6764.6	6750.0	6362.8	5917.8	45°
47.5°	4800.6	5189.3	5563.4	5945.5	6318.2	6805.6	7195.7	7409.1	7257.8	6850.9	6346.7	47.5°
50°	5074.6	5544.4	5996.0	6435.1	6892.5	7410.6	7786.9	7984.1	7754.0	7238.8	6675.5	50°
52.5°	5282.8	5865.2	6385.4	6876.4	7423.0	7982.7	8317.3	8436.4	8077.7	7539.2	6921.7	52.5°
55°	5479.4	6137.7	6713.5	7271.0	7951.3	8453.2	8766.7	8744.8	8281.5	7670.0	7075.9	55°
57.5°	5627.7	6370.1	6983.1	7618.1	8350.9	8887.3	9068.5	8923.8	8366.3	7708.7	7120.5	57.5°
60°	5814.8	6551.3	7222.8	7931.5	8730.9	9184.7	9208.8	8949.4	8342.2	7635.6	7057.6	60°
62.5°	5934.6	6664.5	7375.5	8146.4	9020.2	9352.0	9179.5	8839.0	8203.3	7455.1	6913.7	62.5°
63°	5946.3	6675.5	7387.9	8167.5	9061.2	9359.3	9152.5	8789.4	8162.4	7405.4	6875.7	63°
65°	5893.7	6644.1	7330.9	8129.5	9071.4	9273.1	8954.5	8585.5	7936.6	7151.9	6652.1	65°
67.5°	5526.1	6306.5	6961.9	7710.9	8676.8	8788.6	8469.3	8068.2	7458.8	6605.3	6163.3	67.5°
70°	4867.8	5609.4	6074.1	6769.8	7619.5	7753.2	7467.6	7157.0	6615.6	5902.4	5535.6	70°
72.5°	3921.6	4650.0	4929.2	5461.8	6137.0	6107.8	5906.8	5868.1	5583.1	4984.7	4764.0	72.5°
75°	2931.5	3624.9	3742.5	3959.6	4336.6	4327.1	4373.9	4540.4	4682.9	4329.3	4046.5	75°
77.5°	1933.4	2623.1	2696.2	2949.0	3053.5	3339.9	3676.1	4094.7	4302.2	4157.6	3810.5	77.5°
80°	1069.7	1794.6	1779.9	1878.6	2063.4	2479.9	2989.2	3611.0	4026.0	3922.3	3542.3	80°
82.5°	556.0	1134.0	1117.2	1134.7	1306.5	1656.5	2043.7	2552.3	2981.2	2990.7	2862.8	82.5°
85°	413.6	814.0	862.2	901.7	1015.6	1137.7	1208.5	1371.5	1606.8	1826.0	1904.2	85°
87.5°	152.0	488.8	608.7	654.0	656.9	641.5	522.4	575.0	523.2	618.9	864.4	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°
1208.5	1208.5	1208.5	1208.5	1208.5	1208.5	1208.5
1204.2	1204.2	1203.4	1204.9	1205.6	1207.8	1207.1
1209.3	1207.1	1204.9	1203.4	1202.0	1202.7	1201.2
1222.4	1215.1	1209.3	1204.2	1199.8	1199.0	1194.7
1251.7	1238.5	1227.5	1219.5	1210.7	1206.4	1198.3
1288.9	1274.3	1260.4	1248.7	1238.5	1232.7	1226.8
1354.0	1332.8	1316.0	1303.5	1293.3	1286.7	1280.9
1450.4	1424.1	1398.5	1374.4	1371.5	1356.1	1356.1
1583.4	1547.6	1514.7	1494.2	1484.7	1464.3	1464.3
1767.5	1732.4	1683.5	1658.6	1660.8	1643.3	1651.3
2005.7	1976.5	1926.1	1915.8	1915.8	1896.8	1868.3
2363.0	2352.8	2297.3	2311.1	2281.9	2211.0	2134.3
2893.5	2893.5	2786.1	2708.6	2641.4	2531.1	2395.9
3424.7	3355.3	3190.9	3059.4	2919.8	2751.0	2577.1
3873.3	3688.5	3521.9	3361.1	3151.4	2970.2	2726.2
4251.8	4076.5	3885.8	3641.0	3394.7	3141.9	2828.5
4720.9	4507.6	4221.1	3913.5	3611.0	3263.2	2900.1
5149.8	4882.4	4520.7	4131.3	3746.2	3358.2	2934.4
5553.2	5208.3	4761.8	4294.2	3855.8	3416.7	2949.0
5933.1	5470.6	4951.1	4410.4	3931.1	3448.1	2945.4
6183.7	5662.8	5070.2	4480.5	3976.4	3459.0	2935.1
6340.8	5780.4	5140.3	4519.3	3999.0	3461.2	2934.4
6429.3	5846.9	5178.3	4546.3	4023.9	3474.4	2951.9
6497.9	5899.5	5220.7	4592.3	4083.0	3535.8	3022.8
6563.0	6037.6	5331.0	4677.1	4186.1	3650.5	3178.5
6590.0	6299.9	5555.4	4833.4	4330.0	3834.6	3421.0
6587.8	6349.6	5620.4	4876.6	4368.0	3883.6	3483.2
6508.2	6507.4	5916.3	5082.6	4544.8	4110.1	3742.5
6272.2	6586.4	6243.7	5354.4	4819.6	4483.5	4132.7
5898.8	6490.6	6288.2	5426.0	5014.7	4826.1	4392.8
5255.8	6033.2	5871.0	5120.6	4948.2	4893.4	4399.4
4251.1	4850.3	4780.8	4374.6	4438.2	4550.7	3929.6
3424.7	3405.7	3395.5	3247.9	3518.2	3746.9	2921.3
2860.6	2356.4	2188.4	2131.4	2577.1	2752.5	1812.8
2674.3	2116.8	1698.1	1626.5	1931.2	2024.7	1093.1
2043.7	2055.4	1779.2	1524.9	1502.3	1375.1	800.8
1000.3	1017.1	1074.8	981.3	841.7	709.5	252.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)