

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: INVUE

Report Number: P141570

Luminaire Tested: **ECM-E04-LED-E1-SLR**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P141570
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33693)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ECM-E04-LED-E1-SLR
Description: EPIC CLASSICAL MEDIUM DECORATIVE LED 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: 10462.1 lumens
Efficiency: N/A
Efficacy: 107.6 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

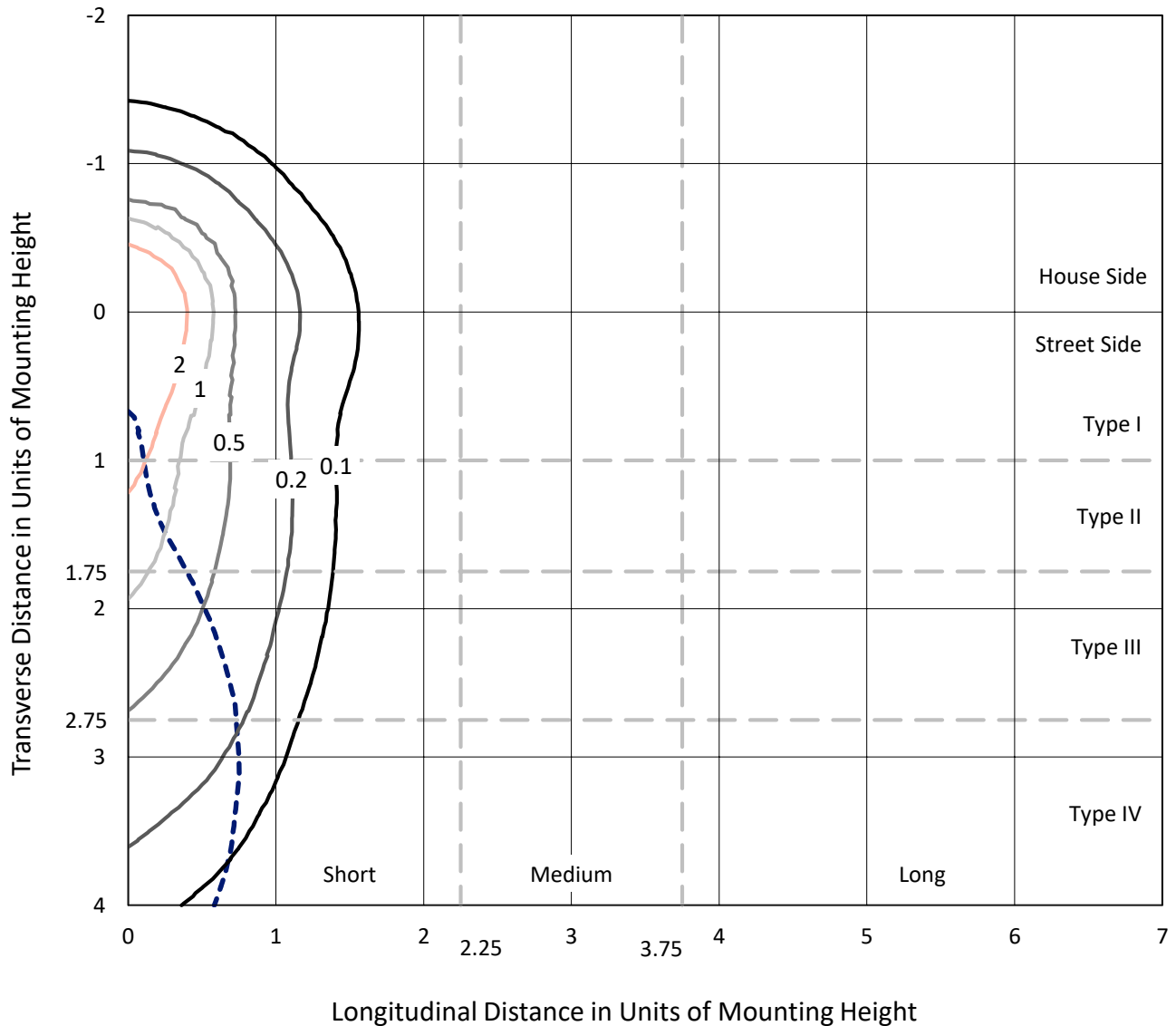


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Iso-Footcandle Lines of Horizontal Illumination

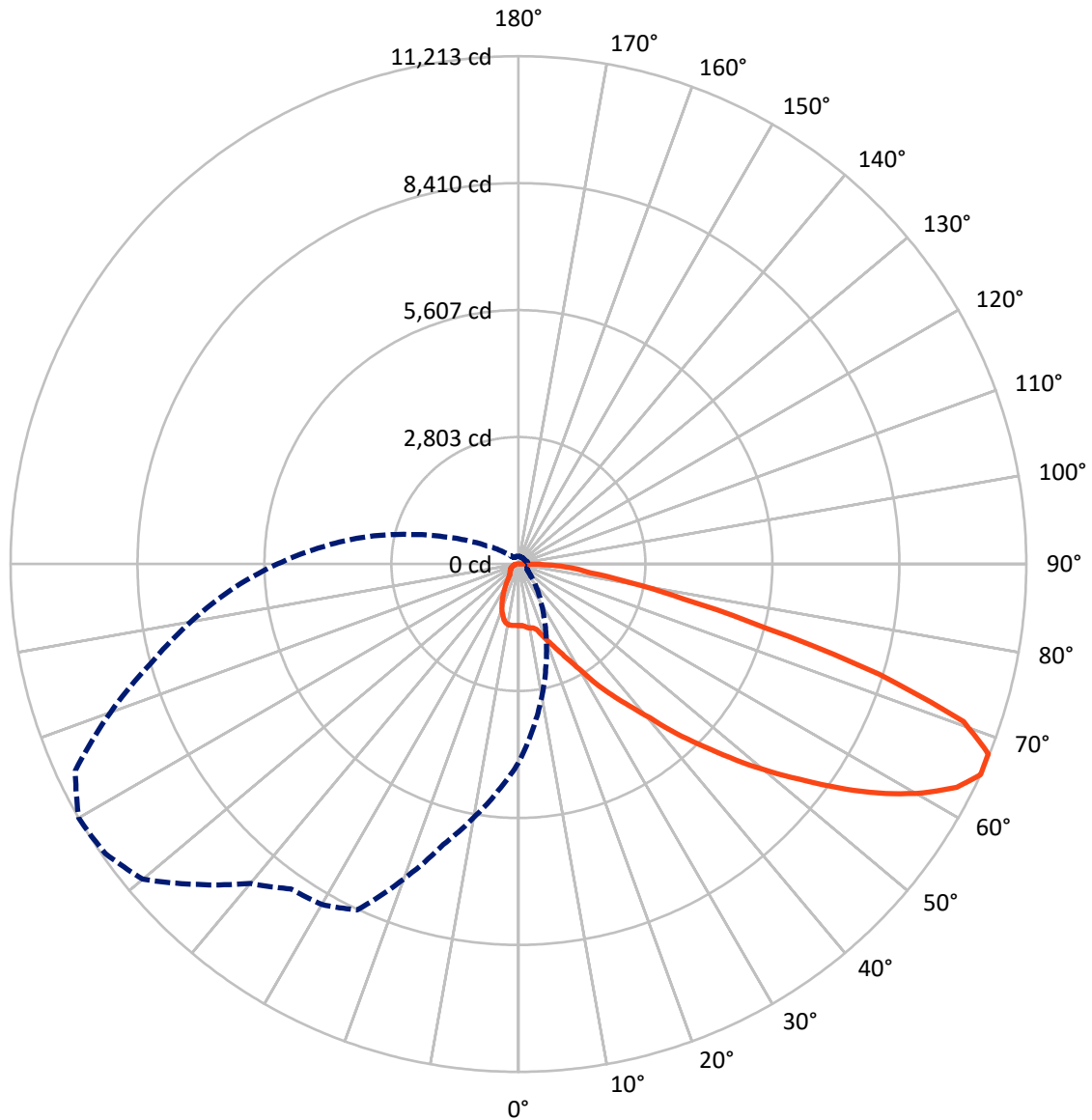
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1940.5	0.0	1940.5
	% Fixture	18.5	0.0	18.5
Street Side	Lumens	8521.6	0.0	8521.6
	% Fixture	81.5	0.0	81.5
Total	Lumens	10462.1	0.0	10462.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.6	1.3
10°-20°	395.2	3.8
20°-30°	656.5	6.3
30°-40°	959.8	9.2
40°-50°	1460.0	14.0
50°-60°	2098.6	20.1
60°-70°	2580.2	24.7
70°-80°	1726.1	16.5
80°-90°	454.1	4.3
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°	10462.1	100.0
0°-180°	10462.1	100.0

Coefficient of Utilization



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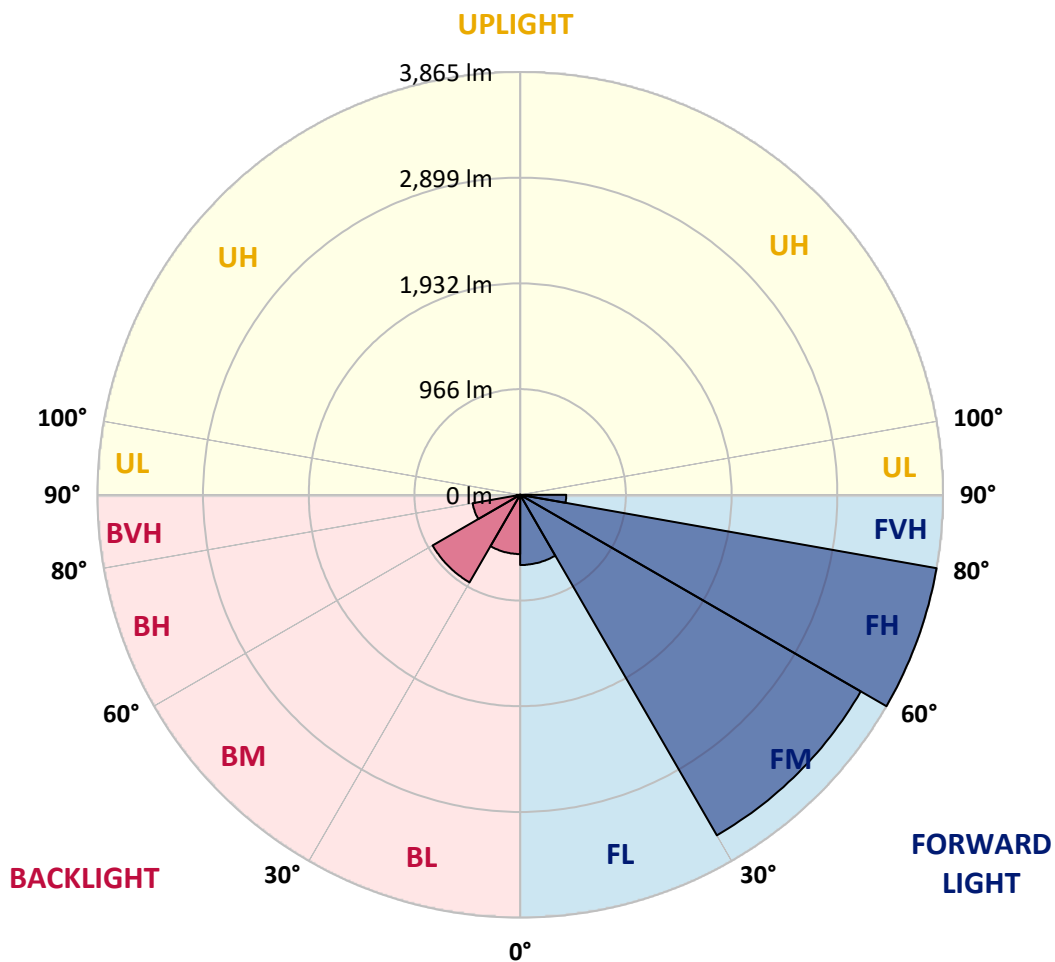
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	641.8	6.1			
FM	(30°-60°)	3594.1	34.4			
FH	(60°-80°)	3864.7	36.9			G2/5000
FVH	(80°-90°)	421.1	4.0			G3/500
BL	(0°-30°)	541.6	5.2	B2/1000		
BM	(30°-60°)	924.3	8.8	B1/1000		
BH	(60°-80°)	441.6	4.2	B1/500		G1/500
BVH	(80°-90°)	33.0	0.3			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°	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1361.3	1365.3	1365.3	1362.7	1361.3	1362.7	1364.0	1362.7	1364.0	1366.7	1365.3
5°	1344.0	1346.7	1348.0	1348.0	1348.0	1350.7	1354.7	1353.3	1357.3	1360.0	1360.0
7.5°	1302.7	1308.0	1308.0	1309.3	1312.0	1316.0	1322.7	1325.3	1332.0	1341.3	1344.0
10°	1277.3	1278.7	1274.7	1273.3	1276.0	1284.0	1288.0	1294.7	1305.3	1316.0	1326.7
12.5°	1284.0	1285.3	1278.7	1280.0	1280.0	1284.0	1296.0	1301.3	1305.3	1312.0	1322.7
15°	1338.7	1338.7	1330.7	1333.3	1334.7	1340.0	1340.0	1330.7	1328.0	1321.3	1316.0
17.5°	1412.0	1401.3	1400.0	1398.7	1404.0	1398.7	1386.7	1365.3	1340.0	1313.3	1292.0
20°	1488.0	1489.3	1481.3	1480.0	1465.3	1446.7	1412.0	1369.3	1324.0	1282.7	1240.0
22.5°	1601.3	1604.0	1589.3	1560.0	1528.0	1478.7	1416.0	1350.7	1285.3	1228.0	1178.7
25°	1773.3	1745.3	1712.0	1650.7	1569.3	1482.7	1396.0	1314.7	1229.3	1153.3	1090.7
27.5°	1944.0	1888.0	1798.7	1698.7	1584.0	1472.0	1369.3	1260.0	1158.7	1066.7	994.7
30°	2102.7	1998.7	1870.7	1728.0	1581.3	1437.3	1306.7	1182.7	1062.7	964.0	878.7
32.5°	2264.0	2112.0	1934.7	1734.7	1541.3	1369.3	1218.7	1076.0	957.3	837.3	745.3
35°	2466.7	2237.3	1973.3	1709.3	1472.0	1262.7	1101.3	965.3	837.3	716.0	620.0
37.5°	2652.0	2337.3	1993.3	1666.7	1381.3	1152.0	974.7	836.0	716.0	613.3	530.7
40°	2788.0	2402.7	1990.7	1612.0	1289.3	1038.7	864.0	738.7	630.7	549.3	485.3
42.5°	2894.7	2440.0	1977.3	1560.0	1209.3	956.0	792.0	677.3	592.0	526.7	477.3
45°	2968.0	2466.7	1969.3	1518.7	1156.0	916.0	768.0	672.0	600.0	541.3	485.3
47.5°	3032.0	2497.3	1966.7	1500.0	1144.0	928.0	800.0	713.3	634.7	558.7	484.0
50°	3096.0	2528.0	1990.7	1530.7	1189.3	994.7	874.7	764.0	656.0	553.3	461.3
52.5°	3184.0	2617.3	2080.0	1618.7	1288.0	1088.0	945.3	805.3	660.0	540.0	440.0
55°	3316.0	2756.0	2208.0	1734.7	1394.7	1189.3	1002.7	821.3	656.0	525.3	420.0
57.5°	3532.0	2960.0	2382.7	1896.0	1533.3	1268.0	1034.7	828.0	646.7	509.3	404.0
60°	3805.3	3193.3	2602.7	2065.3	1652.0	1322.7	1048.0	825.3	633.3	490.7	381.3
62.5°	4116.0	3449.3	2801.3	2220.0	1737.3	1348.0	1042.7	804.0	602.7	452.0	349.3
65°	4389.3	3653.3	2968.0	2344.0	1790.7	1348.0	1009.3	754.7	548.0	397.3	308.0
67.5°	4613.3	3825.3	3096.0	2416.0	1796.0	1301.3	929.3	665.3	461.3	329.3	260.0
70°	4730.7	3880.0	3136.0	2408.0	1706.7	1166.7	782.7	517.3	338.7	256.0	209.3
72.5°	4601.3	3750.7	2965.3	2176.0	1424.0	870.7	548.0	352.0	242.7	198.7	173.3
75°	4094.7	3182.7	2468.0	1682.7	1020.0	542.7	340.0	246.7	192.0	165.3	152.0
77.5°	3057.3	2372.0	1698.7	1065.3	584.0	329.3	238.7	188.0	161.3	145.3	133.3
80°	1922.7	1461.3	1021.3	586.7	333.3	242.7	198.7	168.0	146.7	126.7	114.7
82.5°	1070.7	778.7	520.0	334.7	232.0	196.0	172.0	154.7	130.7	110.7	98.7
85°	732.0	481.3	328.0	220.0	160.0	142.7	128.0	117.3	100.0	84.0	77.3
87.5°	297.3	277.3	201.3	88.0	65.3	58.7	52.0	64.0	53.3	41.3	38.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1368.0	1365.3	1366.7	1365.3	1364.0	1362.7	1361.3	1362.7	1360.0	1361.3	1361.3
5°	1364.0	1361.3	1365.3	1364.0	1361.3	1361.3	1360.0	1360.0	1360.0	1360.0	1361.3
7.5°	1352.0	1352.0	1356.0	1356.0	1353.3	1353.3	1350.7	1349.3	1349.3	1350.7	1353.3
10°	1336.0	1340.0	1346.7	1344.0	1338.7	1336.0	1332.0	1329.3	1328.0	1330.7	1333.3
12.5°	1324.0	1326.7	1322.7	1318.7	1310.7	1301.3	1300.0	1293.3	1289.3	1296.0	1296.0
15°	1304.0	1293.3	1278.7	1265.3	1246.7	1237.3	1226.7	1224.0	1214.7	1216.0	1222.7
17.5°	1261.3	1233.3	1210.7	1197.3	1181.3	1174.7	1162.7	1156.0	1149.3	1142.7	1146.7
20°	1201.3	1170.7	1141.3	1124.0	1098.7	1093.3	1073.3	1073.3	1065.3	1066.7	1074.7
22.5°	1125.3	1078.7	1041.3	1020.0	993.3	982.7	973.3	966.7	962.7	970.7	961.3
25°	1025.3	969.3	934.7	904.0	874.7	864.0	852.0	848.0	849.3	844.0	853.3
27.5°	922.7	853.3	816.0	781.3	760.0	741.3	732.0	729.3	724.0	738.7	730.7
30°	793.3	730.7	686.7	650.7	625.3	616.0	606.7	604.0	612.0	601.3	596.0
32.5°	662.7	594.7	557.3	526.7	508.0	489.3	486.7	481.3	472.0	484.0	481.3
35°	544.0	486.7	448.0	429.3	404.0	396.0	380.0	376.0	377.3	380.0	378.7
37.5°	472.0	432.0	397.3	372.0	353.3	342.7	337.3	332.0	332.0	329.3	328.0
40°	438.7	405.3	373.3	349.3	334.7	326.7	321.3	316.0	312.0	308.0	304.0
42.5°	433.3	393.3	357.3	333.3	320.0	317.3	316.0	312.0	306.7	300.0	294.7
45°	429.3	378.7	341.3	320.0	310.7	309.3	309.3	305.3	301.3	294.7	286.7
47.5°	416.0	360.0	324.0	308.0	304.0	305.3	304.0	300.0	297.3	290.7	281.3
50°	386.7	332.0	297.3	285.3	284.0	282.7	282.7	281.3	278.7	273.3	264.0
52.5°	361.3	306.7	278.7	270.7	268.0	268.0	265.3	264.0	258.7	254.7	248.0
55°	345.3	293.3	269.3	264.0	264.0	262.7	260.0	256.0	252.0	246.7	238.7
57.5°	330.7	282.7	262.7	258.7	260.0	258.7	256.0	253.3	248.0	241.3	232.0
60°	309.3	266.7	249.3	248.0	250.7	253.3	252.0	250.7	246.7	237.3	224.0
62.5°	278.7	240.0	226.7	229.3	232.0	234.7	233.3	232.0	228.0	220.0	208.0
65°	248.0	220.0	212.0	214.7	217.3	217.3	217.3	214.7	212.0	202.7	193.3
67.5°	218.7	201.3	198.7	201.3	202.7	202.7	204.0	201.3	197.3	190.7	181.3
70°	186.7	178.7	178.7	181.3	182.7	181.3	182.7	178.7	174.7	170.7	161.3
72.5°	166.7	166.7	165.3	165.3	165.3	162.7	161.3	158.7	154.7	150.7	142.7
75°	148.0	148.0	146.7	149.3	144.0	140.0	138.7	136.0	132.0	126.7	121.3
77.5°	126.7	124.0	124.0	128.0	126.7	121.3	117.3	116.0	110.7	105.3	102.7
80°	109.3	106.7	106.7	105.3	102.7	101.3	96.0	90.7	89.3	89.3	85.3
82.5°	96.0	94.7	90.7	88.0	84.0	80.0	76.0	73.3	69.3	68.0	69.3
85°	76.0	77.3	73.3	70.7	66.7	61.3	57.3	54.7	52.0	52.0	57.3
87.5°	44.0	41.3	41.3	40.0	38.7	34.7	34.7	30.7	29.3	37.3	38.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1362.7	1362.7	1358.7	1361.3	1360.0	1361.3	1366.7	1361.3	1360.0	1364.0	1368.0
5°	1362.7	1365.3	1361.3	1364.0	1364.0	1368.0	1374.7	1370.7	1373.3	1378.7	1384.0
7.5°	1357.3	1361.3	1361.3	1366.7	1370.7	1377.3	1386.7	1384.0	1389.3	1397.3	1404.0
10°	1342.7	1349.3	1356.0	1364.0	1373.3	1384.0	1397.3	1397.3	1402.7	1413.3	1420.0
12.5°	1306.7	1324.0	1332.0	1350.7	1365.3	1381.3	1396.0	1405.3	1409.3	1418.7	1426.7
15°	1234.7	1256.0	1272.0	1294.7	1318.7	1341.3	1366.7	1376.0	1384.0	1388.0	1392.0
17.5°	1152.0	1166.7	1177.3	1206.7	1233.3	1254.7	1278.7	1290.7	1300.0	1300.0	1302.7
20°	1084.0	1090.7	1093.3	1093.3	1109.3	1129.3	1160.0	1156.0	1164.0	1156.0	1164.0
22.5°	978.7	968.0	973.3	973.3	984.0	980.0	992.0	1012.0	1009.3	1014.7	1037.3
25°	850.7	852.0	842.7	842.7	844.0	846.7	852.0	857.3	876.0	896.0	910.7
27.5°	729.3	726.7	720.0	714.7	709.3	718.7	725.3	724.0	750.7	766.7	793.3
30°	596.0	596.0	597.3	594.7	600.0	593.3	604.0	606.7	629.3	646.7	670.7
32.5°	485.3	488.0	488.0	486.7	496.0	489.3	494.7	501.3	516.0	530.7	542.7
35°	385.3	389.3	400.0	404.0	408.0	402.7	409.3	417.3	418.7	432.0	441.3
37.5°	326.7	333.3	334.7	337.3	337.3	341.3	342.7	348.0	348.0	352.0	354.7
40°	301.3	298.7	297.3	296.0	293.3	294.7	296.0	300.0	301.3	304.0	304.0
42.5°	289.3	285.3	278.7	274.7	269.3	269.3	269.3	269.3	273.3	276.0	276.0
45°	278.7	272.0	265.3	258.7	254.7	252.0	253.3	254.7	257.3	258.7	260.0
47.5°	272.0	262.7	252.0	245.3	241.3	238.7	240.0	241.3	241.3	242.7	244.0
50°	253.3	244.0	234.7	228.0	224.0	222.7	222.7	221.3	222.7	224.0	224.0
52.5°	238.7	229.3	221.3	214.7	210.7	210.7	209.3	206.7	208.0	206.7	208.0
55°	230.7	218.7	209.3	202.7	198.7	198.7	196.0	197.3	197.3	194.7	196.0
57.5°	221.3	209.3	201.3	193.3	188.0	188.0	186.7	188.0	189.3	185.3	185.3
60°	212.0	201.3	192.0	185.3	178.7	180.0	178.7	181.3	181.3	177.3	177.3
62.5°	194.7	185.3	180.0	176.0	170.7	172.0	172.0	176.0	172.0	169.3	168.0
65°	181.3	174.7	166.7	166.7	161.3	164.0	164.0	164.0	160.0	158.7	160.0
67.5°	172.0	164.0	158.7	153.3	149.3	150.7	148.0	148.0	146.7	145.3	148.0
70°	154.7	148.0	145.3	140.0	137.3	133.3	132.0	132.0	132.0	130.7	132.0
72.5°	137.3	132.0	129.3	124.0	121.3	118.7	117.3	116.0	114.7	116.0	116.0
75°	116.0	113.3	110.7	108.0	105.3	104.0	102.7	102.7	101.3	100.0	101.3
77.5°	100.0	96.0	94.7	92.0	93.3	89.3	88.0	89.3	89.3	89.3	90.7
80°	85.3	82.7	82.7	80.0	78.7	76.0	77.3	77.3	77.3	77.3	78.7
82.5°	74.7	72.0	72.0	70.7	66.7	64.0	65.3	68.0	68.0	66.7	69.3
85°	61.3	58.7	58.7	57.3	52.0	50.7	49.3	52.0	53.3	50.7	53.3
87.5°	40.0	37.3	36.0	36.0	30.7	21.3	28.0	30.7	30.7	25.3	29.3
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1366.7	1369.3	1369.3	1372.0	1377.3	1372.0	1369.3	1373.3	1373.3	1372.0	1372.0
5°	1384.0	1389.3	1390.7	1398.7	1402.7	1400.0	1402.7	1405.3	1406.7	1404.0	1406.7
7.5°	1406.7	1413.3	1420.0	1429.3	1437.3	1436.0	1440.0	1445.3	1446.7	1446.7	1449.3
10°	1425.3	1434.7	1441.3	1453.3	1462.7	1465.3	1469.3	1476.0	1482.7	1482.7	1488.0
12.5°	1429.3	1440.0	1446.7	1457.3	1473.3	1478.7	1488.0	1504.0	1510.7	1516.0	1520.0
15°	1394.7	1404.0	1413.3	1428.0	1446.7	1462.7	1484.0	1506.7	1526.7	1541.3	1546.7
17.5°	1304.0	1305.3	1314.7	1336.0	1374.7	1392.0	1418.7	1465.3	1493.3	1520.0	1545.3
20°	1170.7	1196.0	1205.3	1233.3	1270.7	1297.3	1328.0	1370.7	1413.3	1461.3	1504.0
22.5°	1053.3	1086.7	1113.3	1146.7	1177.3	1208.0	1246.7	1284.0	1330.7	1377.3	1428.0
25°	933.3	964.0	1001.3	1037.3	1073.3	1112.0	1160.0	1200.0	1246.7	1301.3	1365.3
27.5°	817.3	849.3	890.7	933.3	962.7	1014.7	1054.7	1113.3	1166.7	1226.7	1298.7
30°	696.0	726.7	746.7	793.3	834.7	886.7	948.0	1005.3	1069.3	1136.0	1220.0
32.5°	564.0	582.7	610.7	642.7	690.7	745.3	809.3	870.7	958.7	1041.3	1121.3
35°	452.0	461.3	460.0	496.0	517.3	582.7	662.7	721.3	809.3	910.7	1016.0
37.5°	356.0	354.7	362.7	368.0	394.7	437.3	500.0	576.0	677.3	786.7	892.0
40°	304.0	305.3	306.7	306.7	312.0	340.0	396.0	474.7	572.0	669.3	785.3
42.5°	280.0	282.7	284.0	286.7	289.3	298.7	338.7	412.0	494.7	598.7	702.7
45°	262.7	266.7	270.7	270.7	273.3	276.0	298.7	354.7	437.3	536.0	645.3
47.5°	248.0	252.0	254.7	256.0	258.7	261.3	273.3	312.0	392.0	481.3	594.7
50°	226.7	230.7	233.3	237.3	237.3	237.3	245.3	273.3	334.7	422.7	533.3
52.5°	209.3	212.0	216.0	218.7	220.0	221.3	225.3	241.3	288.0	370.7	474.7
55°	200.0	202.7	206.7	209.3	212.0	213.3	216.0	222.7	256.0	326.7	424.0
57.5°	188.0	192.0	197.3	200.0	202.7	204.0	205.3	208.0	230.7	284.0	364.0
60°	180.0	186.7	193.3	197.3	198.7	200.0	201.3	198.7	208.0	241.3	304.0
62.5°	170.7	177.3	182.7	188.0	189.3	190.7	192.0	188.0	186.7	202.7	237.3
65°	162.7	166.7	170.7	174.7	174.7	176.0	174.7	169.3	165.3	165.3	181.3
67.5°	152.0	154.7	158.7	160.0	160.0	160.0	158.7	157.3	150.7	148.0	150.7
70°	136.0	140.0	144.0	146.7	146.7	145.3	144.0	140.0	137.3	134.7	137.3
72.5°	121.3	126.7	128.0	129.3	128.0	128.0	128.0	125.3	126.7	126.7	128.0
75°	106.7	109.3	109.3	112.0	112.0	112.0	112.0	112.0	114.7	113.3	114.7
77.5°	90.7	92.0	94.7	94.7	94.7	96.0	98.7	98.7	101.3	102.7	102.7
80°	78.7	76.0	76.0	74.7	76.0	78.7	81.3	86.7	86.7	88.0	89.3
82.5°	62.7	57.3	54.7	57.3	57.3	58.7	64.0	69.3	69.3	73.3	74.7
85°	48.0	41.3	36.0	38.7	38.7	41.3	46.7	49.3	53.3	54.7	53.3
87.5°	28.0	24.0	16.0	13.3	16.0	20.0	21.3	24.0	20.0	22.7	24.0
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°	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0
2.5°	1374.7	1374.7	1368.0	1368.0	1369.3	1372.0	1365.3	1364.0	1365.3	1364.0	1362.7
5°	1410.7	1406.7	1405.3	1402.7	1401.3	1404.0	1397.3	1397.3	1396.0	1393.3	1389.3
7.5°	1450.7	1448.0	1445.3	1442.7	1440.0	1441.3	1434.7	1433.3	1432.0	1430.7	1426.7
10°	1488.0	1484.0	1481.3	1474.7	1469.3	1464.0	1450.7	1446.7	1442.7	1440.0	1438.7
12.5°	1518.7	1514.7	1505.3	1493.3	1485.3	1472.0	1461.3	1452.0	1448.0	1444.0	1445.3
15°	1548.0	1540.0	1528.0	1513.3	1505.3	1492.0	1484.0	1480.0	1477.3	1474.7	1477.3
17.5°	1557.3	1560.0	1553.3	1549.3	1544.0	1538.7	1540.0	1544.0	1552.0	1552.0	1552.0
20°	1540.0	1569.3	1588.0	1602.7	1614.7	1622.7	1624.0	1628.0	1637.3	1641.3	1661.3
22.5°	1498.7	1574.7	1637.3	1688.0	1720.0	1730.7	1742.7	1756.0	1757.3	1761.3	1780.0
25°	1460.0	1570.7	1664.0	1744.0	1818.7	1870.7	1900.0	1926.7	1933.3	1938.7	1938.7
27.5°	1392.0	1514.7	1634.7	1741.3	1844.0	1930.7	1998.7	2068.0	2116.0	2133.3	2158.7
30°	1320.0	1449.3	1573.3	1708.0	1838.7	1960.0	2082.7	2194.7	2273.3	2332.0	2378.7
32.5°	1229.3	1369.3	1510.7	1657.3	1813.3	1965.3	2129.3	2292.0	2441.3	2558.7	2630.7
35°	1134.7	1281.3	1428.0	1589.3	1765.3	1949.3	2158.7	2374.7	2574.7	2765.3	2929.3
37.5°	1030.7	1169.3	1329.3	1513.3	1702.7	1922.7	2166.7	2434.7	2712.0	2985.3	3197.3
40°	912.0	1046.7	1201.3	1394.7	1624.0	1872.0	2162.7	2481.3	2829.3	3169.3	3510.7
42.5°	830.7	954.7	1102.7	1297.3	1530.7	1814.7	2146.7	2524.0	2936.0	3357.3	3786.7
45°	769.3	890.7	1036.0	1222.7	1460.0	1758.7	2141.3	2572.0	3048.0	3530.7	4032.0
47.5°	716.0	841.3	981.3	1165.3	1394.7	1708.0	2129.3	2612.0	3141.3	3664.0	4245.3
50°	664.0	792.0	936.0	1121.3	1346.7	1653.3	2102.7	2648.0	3229.3	3802.7	4421.3
52.5°	606.7	733.3	888.0	1077.3	1316.0	1618.7	2074.7	2677.3	3314.7	3950.7	4604.0
55°	545.3	673.3	825.3	1025.3	1274.7	1592.0	2046.7	2696.0	3404.0	4084.0	4768.0
57.5°	478.7	606.7	754.7	958.7	1224.0	1556.0	2016.0	2694.7	3469.3	4209.3	4945.3
60°	397.3	513.3	660.0	865.3	1136.0	1505.3	1990.7	2684.0	3516.0	4320.0	5142.7
62.5°	302.7	401.3	536.0	728.0	1009.3	1408.0	1924.0	2638.7	3521.3	4400.0	5306.7
65°	216.0	269.3	376.0	568.0	801.3	1190.7	1762.7	2518.7	3433.3	4342.7	5321.3
67.5°	165.3	194.7	246.7	361.3	568.0	906.7	1485.3	2249.3	3160.0	4037.3	5076.0
70°	142.7	157.3	185.3	236.0	356.0	588.0	1052.0	1777.3	2602.7	3473.3	4360.0
72.5°	132.0	141.3	158.7	184.0	226.7	346.7	648.0	1194.7	1912.0	2648.0	3424.0
75°	121.3	130.7	144.0	160.0	181.3	232.0	353.3	702.7	1180.0	1749.3	2301.3
77.5°	108.0	116.0	133.3	148.0	161.3	181.3	225.3	390.7	649.3	1046.7	1377.3
80°	90.7	98.7	112.0	134.7	148.0	161.3	176.0	240.0	358.7	541.3	706.7
82.5°	74.7	78.7	89.3	109.3	121.3	128.0	132.0	156.0	204.0	266.7	389.3
85°	52.0	52.0	60.0	70.7	80.0	74.7	76.0	80.0	105.3	148.0	298.7
87.5°	20.0	14.7	18.7	22.7	22.7	21.3	25.3	24.0	33.3	62.7	85.3
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	0°
2.5°	1362.7	1362.7	1361.3	1360.0	1358.7	1358.7	1356.0	1360.0	1358.7	1360.0	1361.3	2.5°
5°	1390.7	1388.0	1385.3	1382.7	1382.7	1380.0	1376.0	1374.7	1369.3	1368.0	1364.0	5°
7.5°	1430.7	1430.7	1430.7	1428.0	1422.7	1416.0	1408.0	1402.7	1388.0	1377.3	1365.3	7.5°
10°	1441.3	1444.0	1445.3	1446.7	1441.3	1440.0	1430.7	1420.0	1402.7	1386.7	1370.7	10°
12.5°	1445.3	1450.7	1452.0	1453.3	1449.3	1446.7	1437.3	1430.7	1416.0	1400.0	1392.0	12.5°
15°	1482.7	1492.0	1502.7	1501.3	1513.3	1500.0	1492.0	1493.3	1477.3	1460.0	1454.7	15°
17.5°	1578.7	1582.7	1605.3	1606.7	1625.3	1630.7	1617.3	1602.7	1593.3	1582.7	1560.0	17.5°
20°	1682.7	1712.0	1720.0	1760.0	1778.7	1788.0	1789.3	1789.3	1772.0	1725.3	1706.7	20°
22.5°	1796.0	1840.0	1888.0	1913.3	1952.0	1957.3	1977.3	1965.3	1952.0	1916.0	1873.3	22.5°
25°	1978.7	2004.0	2046.7	2110.7	2129.3	2168.0	2160.0	2177.3	2148.0	2085.3	2060.0	25°
27.5°	2182.7	2226.7	2286.7	2346.7	2373.3	2416.0	2389.3	2416.0	2368.0	2350.7	2289.3	27.5°
30°	2405.3	2465.3	2572.0	2646.7	2701.3	2730.7	2713.3	2698.7	2685.3	2653.3	2649.3	30°
32.5°	2678.7	2750.7	2852.0	2949.3	3045.3	3145.3	3169.3	3190.7	3240.0	3142.7	3048.0	32.5°
35°	3016.0	3070.7	3184.0	3296.0	3428.0	3553.3	3760.0	3812.0	3745.3	3629.3	3477.3	35°
37.5°	3345.3	3469.3	3582.7	3716.0	3814.7	3958.7	4050.7	4153.3	4097.3	3989.3	3814.7	37.5°
40°	3749.3	3917.3	4072.0	4236.0	4348.0	4460.0	4633.3	4745.3	4734.7	4600.0	4364.0	40°
42.5°	4120.0	4386.7	4642.7	4765.3	4914.7	5117.3	5245.3	5424.0	5436.0	5280.0	4980.0	42.5°
45°	4508.0	4818.7	5130.7	5372.0	5498.7	5749.3	6042.7	6237.3	6297.3	6000.0	5693.3	45°
47.5°	4812.0	5296.0	5714.7	5972.0	6208.0	6466.7	6844.0	7125.3	7101.3	6700.0	6294.7	47.5°
50°	5078.7	5694.7	6201.3	6625.3	6908.0	7206.7	7704.0	8040.0	7922.7	7412.0	6905.3	50°
52.5°	5320.0	6042.7	6669.3	7194.7	7524.0	7950.7	8578.7	8872.0	8538.7	8045.3	7418.7	52.5°
55°	5541.3	6357.3	7085.3	7717.3	8225.3	8776.0	9365.3	9566.7	9092.0	8482.7	7906.7	55°
57.5°	5745.3	6649.3	7468.0	8226.7	8908.0	9565.3	10078.7	10092.0	9496.0	8820.0	8270.7	57.5°
60°	5990.7	6917.3	7868.0	8754.7	9585.3	10268.0	10568.0	10473.3	9756.0	9072.0	8521.3	60°
62.5°	6228.0	7158.7	8194.7	9262.7	10264.0	10860.0	10920.0	10720.0	9934.7	9189.3	8709.3	62.5°
65°	6345.3	7342.7	8377.3	9585.3	10794.7	11213.3	11140.0	10826.7	10006.7	9206.7	8757.3	65°
67.5°	6173.3	7170.7	8202.7	9445.3	10792.0	11190.7	11001.3	10622.7	9832.0	8970.7	8534.7	67.5°
70°	5540.0	6506.7	7348.0	8517.3	10032.0	10425.3	10141.3	9766.7	9105.3	8262.7	8064.0	70°
72.5°	4661.3	5378.7	6082.7	6946.7	7985.3	8329.3	7954.7	8141.3	7970.7	7154.7	6973.3	72.5°
75°	3498.7	4169.3	4444.0	4709.3	5426.7	5632.0	5488.0	6128.0	6302.7	5962.7	5500.0	75°
77.5°	2289.3	2993.3	3044.0	3049.3	3342.7	3736.0	4257.3	4922.7	5253.3	5100.0	4538.7	77.5°
80°	1334.7	2109.3	1886.7	1814.7	2074.7	2513.3	3201.3	4034.7	4472.0	4504.0	3968.0	80°
82.5°	670.7	1322.7	1145.3	1133.3	1280.0	1604.0	2106.7	2572.0	3141.3	3168.0	3238.7	82.5°
85°	521.3	909.3	930.7	1009.3	1112.0	1246.7	1284.0	1366.7	1684.0	1977.3	2053.3	85°
87.5°	270.7	669.3	789.3	918.7	906.7	742.7	626.7	676.0	786.7	829.3	1077.3	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°
1360.0	1360.0	1360.0	1360.0	1360.0	1360.0	1360.0
1358.7	1361.3	1360.0	1361.3	1362.7	1362.7	1361.3
1357.3	1356.0	1350.7	1348.0	1348.0	1345.3	1344.0
1349.3	1340.0	1326.7	1318.7	1313.3	1309.3	1302.7
1350.7	1334.7	1317.3	1305.3	1293.3	1285.3	1277.3
1368.0	1348.0	1332.0	1313.3	1304.0	1293.3	1284.0
1428.0	1401.3	1382.7	1365.3	1354.7	1346.7	1338.7
1524.0	1492.0	1461.3	1445.3	1426.7	1413.3	1412.0
1653.3	1606.7	1566.7	1530.7	1513.3	1492.0	1488.0
1800.0	1732.0	1689.3	1649.3	1625.3	1600.0	1601.3
1986.7	1918.7	1849.3	1808.0	1773.3	1777.3	1773.3
2210.7	2157.3	2077.3	2026.7	2016.0	1974.7	1944.0
2560.0	2480.0	2382.7	2292.0	2234.7	2166.7	2102.7
2902.7	2754.7	2625.3	2537.3	2464.0	2364.0	2264.0
3241.3	3070.7	2950.7	2876.0	2762.7	2622.7	2466.7
3644.0	3532.0	3446.7	3264.0	3102.7	2888.0	2652.0
4225.3	4084.0	3880.0	3648.0	3414.7	3110.7	2788.0
4804.0	4633.3	4348.0	4006.7	3672.0	3305.3	2894.7
5432.0	5102.7	4730.7	4317.3	3905.3	3450.7	2968.0
5926.7	5516.0	5052.0	4556.0	4090.7	3570.7	3032.0
6432.0	5936.0	5353.3	4794.7	4258.7	3668.0	3096.0
6829.3	6276.0	5661.3	5012.0	4414.7	3777.3	3184.0
7226.7	6614.7	5937.3	5229.3	4608.0	3929.3	3316.0
7557.3	6921.3	6204.0	5466.7	4832.0	4132.0	3532.0
7993.3	7352.0	6517.3	5748.0	5085.3	4408.0	3805.3
8408.0	7857.3	6953.3	6078.7	5394.7	4720.0	4116.0
8681.3	8428.0	7400.0	6410.7	5685.3	5012.0	4389.3
8686.7	8790.7	7870.7	6680.0	5957.3	5329.3	4613.3
8477.3	8841.3	7970.7	6704.0	6086.7	5470.7	4730.7
7753.3	8217.3	7372.0	6230.7	5846.7	5360.0	4601.3
5997.3	6333.3	5896.0	5281.3	5294.7	5010.7	4094.7
4152.0	4469.3	4101.3	3970.7	4262.7	4104.0	3057.3
3145.3	2736.0	2592.0	2661.3	3025.3	3008.0	1922.7
2801.3	2070.7	1717.3	1802.7	2136.0	1950.7	1070.7
2297.3	2065.3	1726.7	1561.3	1628.0	1332.0	732.0
1322.7	1510.7	1230.7	1160.0	1009.3	600.0	297.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)