

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: McGRAW-EDISON

Report Number: P159007

Luminaire Tested: **VTS-F05-LED-E1-SLR-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159007
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VTS-F05-LED-E1-SLR-7060
Description: VENTUS LED SITE LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (35) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

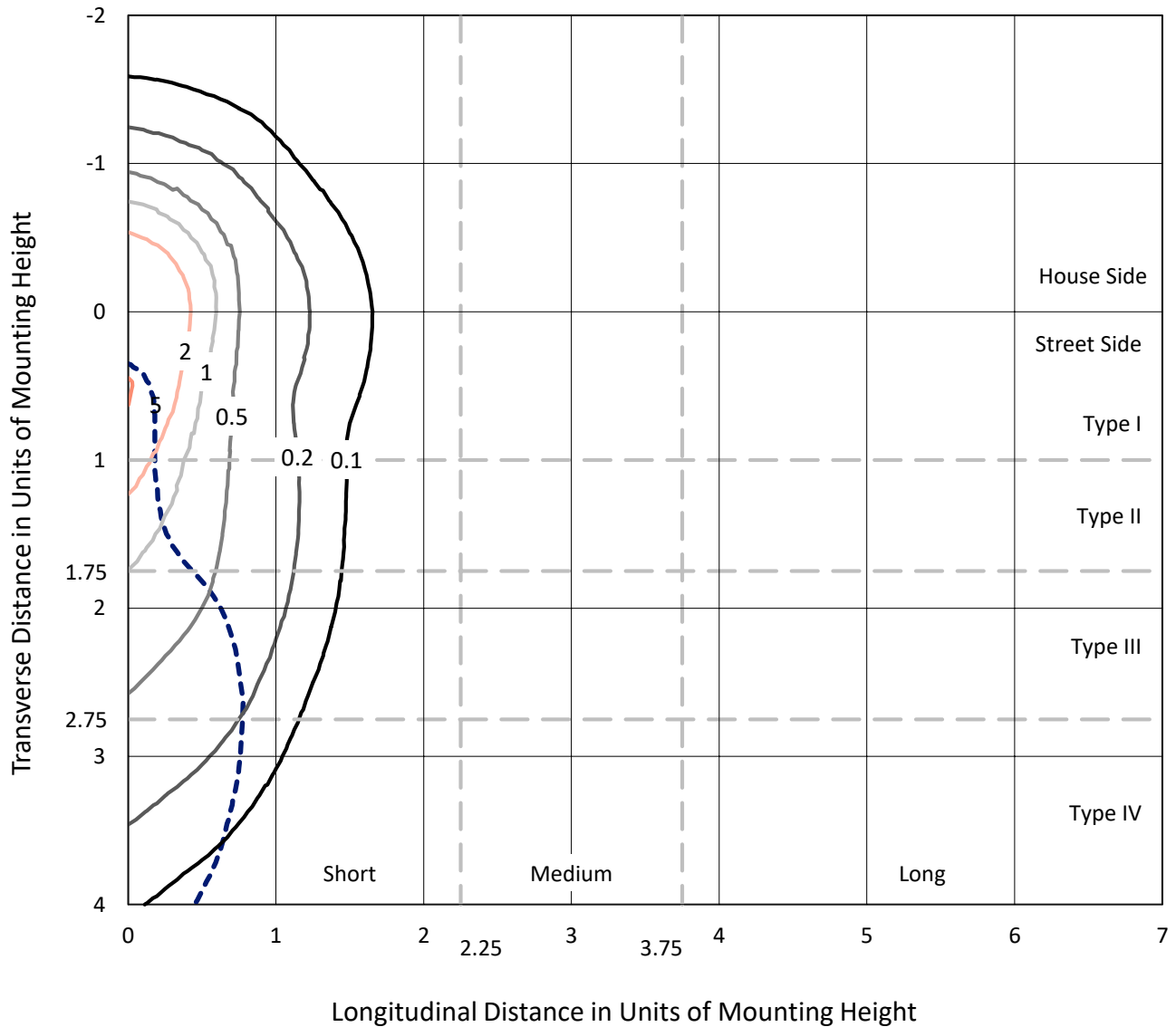
Lumens per Lamp: N/A
Luminaire Lumens: 11381.7 lumens
Efficiency: N/A
Efficacy: 85.4 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

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

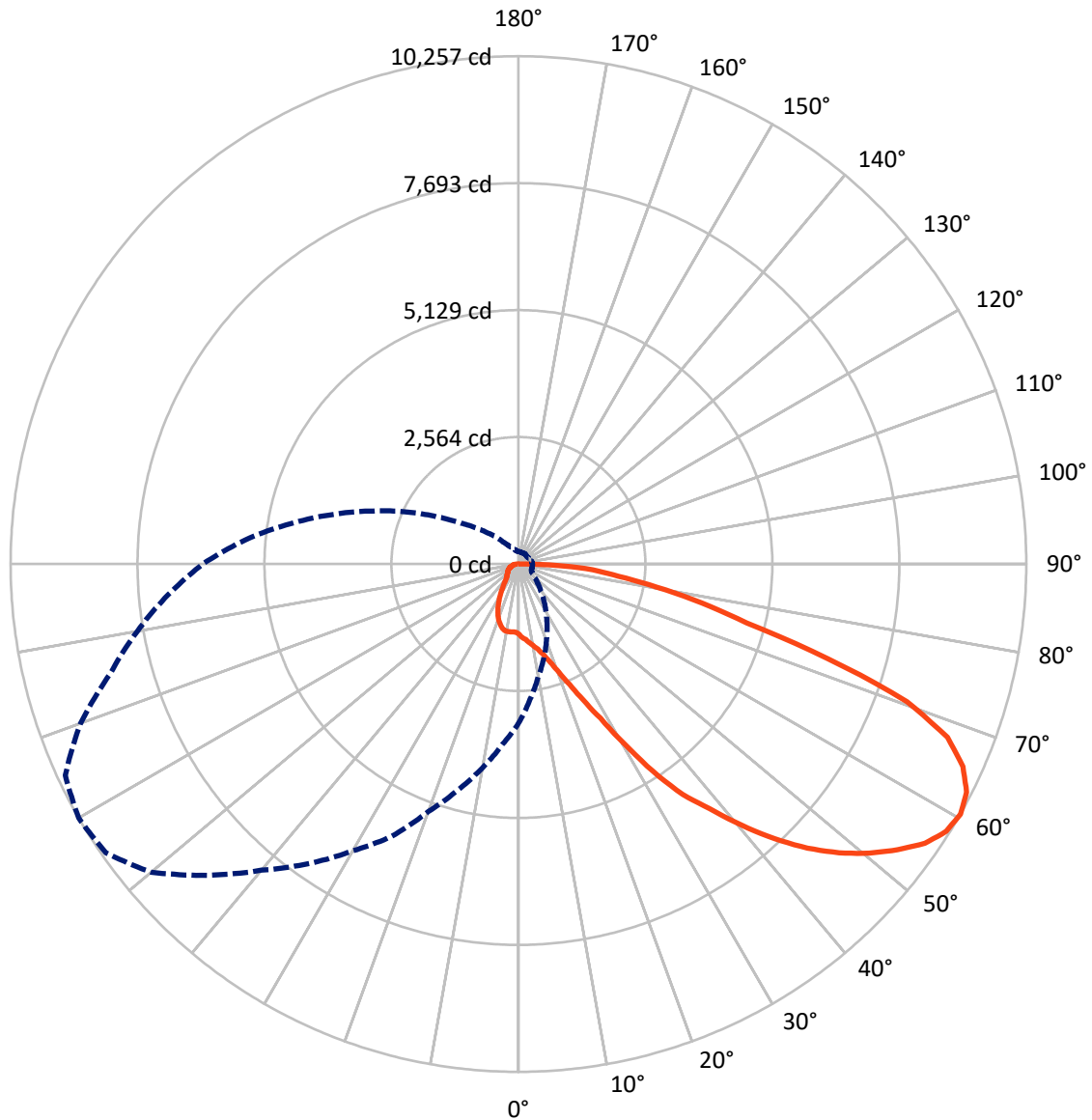
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.3 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2562.8	0.0	2562.8
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	8818.9	0.0	8818.9
	% Fixture	77.5	0.0	77.5
Total	Lumens	11381.7	0.0	11381.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.6	1.2
10°-20°	450.9	4.0
20°-30°	855.6	7.5
30°-40°	1347.4	11.8
40°-50°	1880.7	16.5
50°-60°	2325.9	20.4
60°-70°	2411.0	21.2
70°-80°	1517.1	13.3
80°-90°	453.5	4.0
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°	11381.7	100.0
0°-180°	11381.7	100.0



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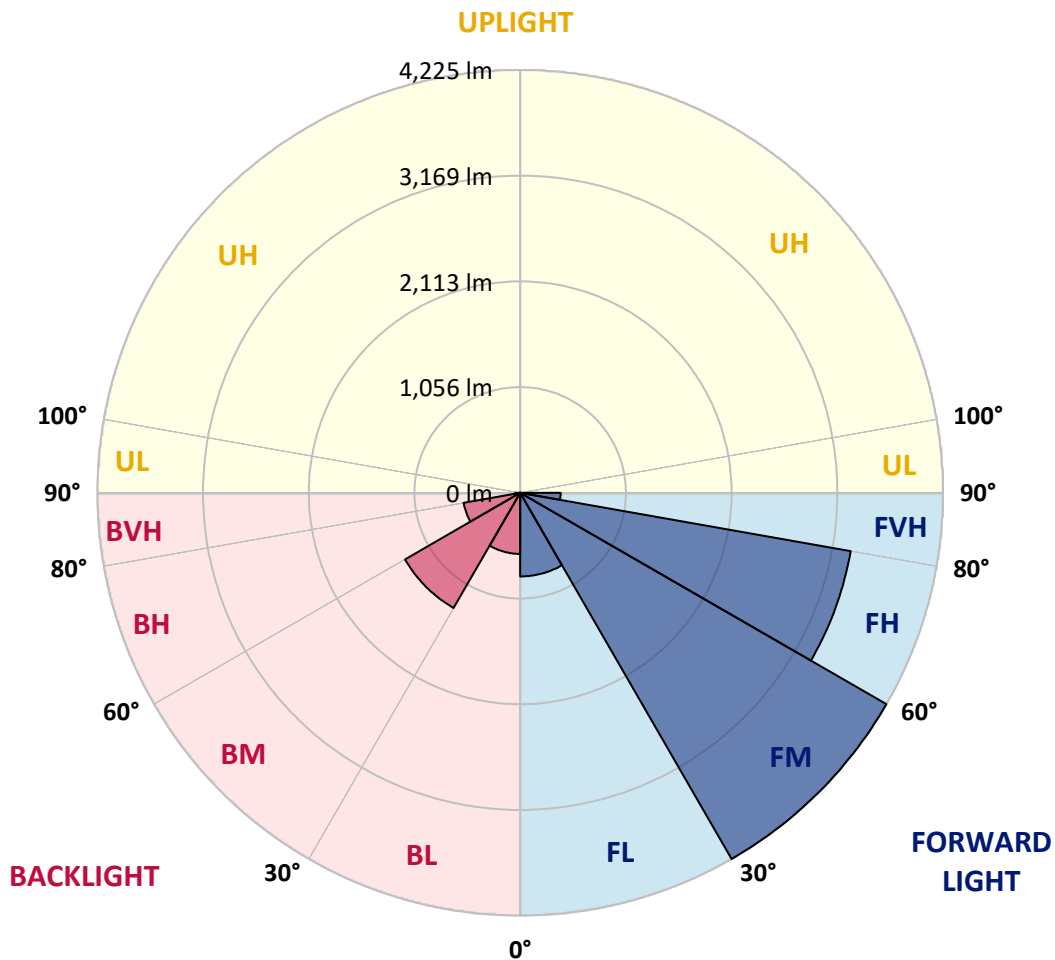
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	835.6	7.3			
FM	(30°-60°)	4225.1	37.1			
FH	(60°-80°)	3354.1	29.5			G2/5000
FVH	(80°-90°)	404.2	3.6			G3/500
BL	(0°-30°)	610.5	5.4	B2/1000		
BM	(30°-60°)	1329.0	11.7	B2/2500		
BH	(60°-80°)	573.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	49.3	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°	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5
2.5°	1499.3	1409.5	1411.2	1408.7	1408.7	1407.0	1408.7	1407.0	1405.3	1405.3	1406.1
5°	1518.8	1419.7	1419.7	1417.2	1415.5	1413.8	1415.5	1413.8	1412.9	1411.2	1412.1
7.5°	1537.4	1425.6	1422.2	1418.9	1414.6	1416.3	1416.3	1415.5	1416.3	1415.5	1417.2
10°	1567.9	1445.1	1436.6	1429.0	1428.2	1426.5	1426.5	1423.9	1423.9	1422.2	1423.1
12.5°	1645.9	1505.3	1495.9	1482.4	1479.8	1472.2	1468.0	1462.9	1454.4	1446.8	1440.9
15°	1777.2	1605.2	1587.4	1575.6	1570.5	1555.2	1531.5	1512.9	1488.3	1467.1	1445.1
17.5°	1938.1	1739.0	1717.9	1702.6	1677.2	1635.7	1595.9	1550.1	1502.7	1459.5	1419.7
20°	2163.4	1931.3	1889.8	1853.4	1789.9	1718.7	1644.2	1564.5	1491.7	1423.9	1365.5
22.5°	2468.4	2179.5	2102.4	2005.0	1887.3	1767.0	1648.4	1538.3	1440.9	1352.8	1274.8
25°	2819.1	2416.7	2277.8	2110.1	1929.6	1763.6	1607.7	1466.3	1352.8	1239.3	1154.6
27.5°	3077.4	2614.9	2409.9	2189.7	1959.3	1747.5	1556.1	1385.0	1247.7	1131.7	1029.2
30°	3224.8	2728.4	2481.9	2223.6	1964.4	1720.4	1490.9	1292.6	1134.2	996.2	897.9
32.5°	3319.7	2789.4	2489.6	2189.7	1903.4	1639.9	1391.7	1185.9	1013.9	866.6	762.4
35°	3399.3	2814.0	2454.0	2114.3	1788.2	1518.0	1264.7	1058.8	876.7	741.2	634.5
37.5°	3431.5	2809.7	2397.2	2013.5	1675.5	1385.0	1135.1	924.2	761.5	642.1	550.6
40°	3425.6	2770.8	2320.1	1905.9	1543.4	1246.0	997.9	812.3	680.2	579.4	512.5
42.5°	3385.8	2719.1	2234.6	1796.6	1422.2	1130.8	904.7	740.3	633.6	557.4	498.9
45°	3335.8	2657.3	2156.7	1696.7	1326.5	1048.7	850.5	720.0	627.7	554.8	492.2
47.5°	3268.0	2588.7	2077.9	1625.5	1275.7	1024.1	849.6	731.9	632.8	548.9	480.3
50°	3194.3	2538.7	2034.7	1595.0	1269.8	1039.4	879.3	750.5	636.2	543.0	464.2
52.5°	3142.7	2516.7	2033.8	1606.1	1301.1	1081.7	914.0	774.2	648.9	546.4	460.8
55°	3079.1	2513.3	2055.9	1653.5	1369.7	1153.7	969.1	814.9	675.1	559.1	463.4
57.5°	3083.4	2580.2	2141.4	1770.4	1493.4	1251.1	1039.4	864.9	700.5	566.7	459.1
60°	3217.2	2736.1	2310.0	1970.3	1655.2	1365.5	1111.4	892.0	698.8	549.8	438.8
62.5°	3493.3	2969.8	2562.4	2204.9	1819.5	1453.6	1137.6	884.3	673.4	513.3	405.7
65°	3822.9	3243.5	2808.1	2387.1	1919.5	1473.9	1114.8	842.0	622.6	465.9	365.9
67.5°	4152.4	3437.4	2949.5	2438.7	1878.8	1391.7	1030.0	747.1	536.2	401.5	321.0
70°	4271.0	3477.2	2938.5	2322.7	1694.2	1187.6	847.9	601.4	430.3	328.7	270.2
72.5°	4093.1	3228.2	2612.4	1973.7	1377.3	920.8	621.8	443.9	328.7	257.5	220.2
75°	3433.2	2599.7	2065.2	1486.6	994.5	651.4	449.0	323.6	247.3	204.1	176.2
77.5°	2447.2	1810.2	1407.0	976.7	645.5	451.5	321.9	243.1	196.5	163.5	143.2
80°	1537.4	1111.4	857.2	586.2	402.4	306.6	231.3	192.3	158.4	133.0	119.4
82.5°	925.9	647.2	504.9	364.2	264.3	210.1	170.3	150.8	126.2	110.1	102.5
85°	628.5	476.1	331.2	215.2	159.3	123.7	116.0	104.2	94.0	78.8	76.2
87.5°	120.3	170.3	148.2	88.1	58.4	50.0	44.0	42.4	38.1	30.5	34.7
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°	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5
2.5°	1401.1	1399.4	1396.0	1396.0	1393.4	1388.4	1387.5	1384.1	1379.9	1380.7	1379.9
5°	1406.1	1402.8	1398.5	1396.8	1393.4	1388.4	1385.8	1381.6	1377.3	1377.3	1377.3
7.5°	1412.1	1407.8	1404.5	1398.5	1391.7	1386.7	1379.9	1374.8	1372.3	1371.4	1372.3
10°	1417.2	1414.6	1409.5	1401.1	1391.7	1381.6	1374.8	1368.0	1361.3	1362.1	1362.9
12.5°	1428.2	1419.7	1406.1	1393.4	1379.0	1366.3	1354.5	1346.0	1337.5	1337.5	1338.4
15°	1420.5	1396.0	1377.3	1352.8	1336.7	1316.4	1302.8	1295.2	1290.1	1288.4	1289.2
17.5°	1375.7	1346.0	1318.0	1296.0	1274.0	1257.9	1252.0	1246.9	1240.1	1243.5	1240.1
20°	1307.9	1271.5	1231.6	1205.4	1179.1	1168.1	1158.0	1152.9	1148.6	1163.9	1163.9
22.5°	1210.5	1166.4	1125.8	1093.6	1063.9	1052.1	1041.9	1036.0	1038.5	1057.2	1058.8
25°	1087.6	1034.3	980.9	961.4	931.8	922.5	916.5	915.7	918.2	936.9	941.1
27.5°	957.2	901.3	855.5	810.7	797.1	789.5	778.5	791.2	793.7	814.0	822.5
30°	818.3	758.1	709.8	680.2	651.4	655.6	646.3	661.6	668.3	689.5	696.3
32.5°	676.0	619.2	570.9	541.3	521.0	523.5	516.7	530.3	537.0	562.5	575.2
35°	559.1	510.8	471.8	446.4	437.1	427.8	426.1	427.8	434.5	454.0	476.9
37.5°	492.2	452.3	424.4	405.7	393.0	387.1	383.7	383.7	383.7	388.0	399.0
40°	463.4	427.8	403.2	385.4	376.9	373.6	371.0	368.5	364.2	362.5	363.4
42.5°	450.6	410.0	383.7	370.2	365.1	365.1	365.1	363.4	359.2	354.9	350.7
45°	437.9	393.9	367.6	358.3	355.8	356.6	356.6	356.6	353.2	348.1	340.5
47.5°	421.8	376.1	349.8	343.9	343.9	346.5	347.3	347.3	343.9	338.8	332.9
50°	402.4	353.2	329.5	324.4	321.9	321.9	321.9	321.9	319.3	316.0	311.7
52.5°	392.2	340.5	316.0	310.9	310.9	308.3	307.5	304.9	302.4	299.9	293.9
55°	388.8	335.4	310.0	305.8	305.8	303.3	300.7	298.2	293.9	289.7	283.8
57.5°	379.5	324.4	302.4	299.0	299.0	297.3	294.8	292.2	288.0	282.1	274.5
60°	358.3	305.8	287.2	286.3	286.3	285.5	283.8	283.8	279.5	273.6	264.3
62.5°	331.2	286.3	268.5	268.5	267.7	266.8	263.4	262.6	257.5	249.9	241.4
65°	304.9	269.4	257.5	254.1	252.4	249.9	248.2	244.0	239.7	232.9	224.5
67.5°	271.9	244.0	236.3	232.9	229.6	227.0	224.5	221.9	216.9	211.8	205.0
70°	236.3	216.0	211.8	210.9	206.7	204.1	203.3	200.8	195.7	190.6	182.1
72.5°	202.5	190.6	187.2	187.2	182.1	178.7	177.0	176.2	172.8	168.6	160.9
75°	163.5	155.0	154.2	158.4	158.4	155.9	154.2	155.9	150.8	148.2	140.6
77.5°	133.8	129.6	127.1	128.8	133.8	131.3	127.9	127.9	127.9	123.7	121.1
80°	113.5	110.1	107.6	109.3	108.4	107.6	105.9	102.5	102.5	102.5	101.6
82.5°	102.5	101.6	92.3	92.3	88.9	86.4	84.7	83.0	81.3	81.3	85.6
85°	77.1	79.6	74.5	73.7	69.5	66.1	62.7	61.0	59.3	61.8	70.3
87.5°	37.3	37.3	35.6	39.8	36.4	34.7	32.2	30.5	32.2	39.8	47.4
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°	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5
2.5°	1378.2	1377.3	1376.5	1374.8	1371.4	1370.6	1368.9	1368.9	1368.0	1366.3	1368.0
5°	1375.7	1377.3	1377.3	1376.5	1374.0	1375.7	1375.7	1378.2	1378.2	1379.9	1384.1
7.5°	1372.3	1376.5	1379.9	1382.4	1385.8	1388.4	1393.4	1401.1	1404.5	1410.4	1412.9
10°	1365.5	1373.1	1379.0	1386.7	1395.1	1404.5	1412.1	1423.9	1428.2	1436.6	1440.9
12.5°	1346.0	1358.7	1368.9	1384.1	1398.5	1412.9	1426.5	1441.7	1449.3	1458.7	1464.6
15°	1298.6	1313.0	1327.4	1340.9	1366.3	1394.3	1416.3	1436.6	1447.7	1459.5	1465.4
17.5°	1241.8	1251.1	1263.0	1280.8	1305.3	1329.9	1365.5	1394.3	1411.2	1424.8	1426.5
20°	1175.7	1189.3	1197.8	1204.5	1224.0	1241.0	1279.1	1312.1	1334.1	1350.2	1354.5
22.5°	1074.9	1089.3	1103.7	1108.8	1124.1	1146.1	1167.3	1202.8	1234.2	1257.9	1272.3
25°	959.7	973.3	992.8	1008.0	1011.4	1029.2	1050.4	1091.0	1123.2	1161.3	1178.3
27.5°	844.5	856.4	877.6	886.0	896.2	914.0	930.9	964.8	998.7	1042.8	1061.4
30°	709.8	735.3	759.8	775.9	784.4	805.6	817.4	850.5	881.8	914.0	941.1
32.5°	594.6	617.5	645.5	665.8	676.0	692.1	710.7	738.6	763.2	794.6	825.9
35°	488.8	520.1	538.7	556.5	582.8	590.4	609.0	634.5	648.9	682.7	718.3
37.5°	414.2	432.9	451.5	469.3	491.3	501.5	519.3	540.4	557.4	577.7	609.9
40°	368.5	378.6	392.2	404.1	420.1	432.9	442.2	460.0	472.7	493.0	515.9
42.5°	347.3	349.8	351.5	360.0	368.5	376.9	387.1	394.7	410.0	425.2	439.6
45°	335.4	330.4	327.8	328.7	332.1	337.1	345.6	354.1	364.2	373.6	382.0
47.5°	325.3	318.5	310.9	306.6	307.5	309.2	316.0	322.7	327.8	335.4	338.8
50°	301.6	295.6	288.9	282.9	283.8	284.6	290.5	295.6	299.0	301.6	305.8
52.5°	286.3	277.8	271.9	266.0	265.1	267.7	272.8	277.8	279.5	281.2	282.1
55°	275.3	266.8	259.2	253.3	250.7	256.7	258.4	265.1	267.7	267.7	268.5
57.5°	266.8	256.7	249.0	243.1	238.9	243.1	247.3	255.0	255.8	254.1	254.1
60°	254.1	246.5	238.9	232.9	228.7	232.1	235.5	244.0	244.0	239.7	238.9
62.5°	232.1	227.9	222.8	220.2	219.4	222.8	225.3	232.1	229.6	224.5	222.8
65°	216.0	212.6	207.5	205.8	205.0	210.1	210.9	215.2	211.8	209.2	208.4
67.5°	196.5	194.0	191.4	190.6	188.1	188.1	189.7	192.3	190.6	190.6	191.4
70°	174.5	171.1	168.6	169.4	167.7	167.7	168.6	170.3	169.4	171.1	172.8
72.5°	154.2	149.9	149.1	149.1	147.4	148.2	148.2	149.1	150.8	151.6	155.9
75°	134.7	130.4	130.4	129.6	129.6	129.6	130.4	132.1	133.8	134.7	136.4
77.5°	116.9	114.4	115.2	114.4	114.4	114.4	114.4	116.9	117.7	118.6	121.1
80°	100.8	100.8	101.6	101.6	100.8	100.0	100.8	102.5	103.3	104.2	105.0
82.5°	91.5	92.3	92.3	92.3	88.1	86.4	88.9	90.6	92.3	93.2	94.9
85°	78.8	75.4	78.8	77.9	72.0	71.2	71.2	72.0	73.7	72.0	72.0
87.5°	50.8	45.7	48.3	48.3	42.4	34.7	44.0	47.4	42.4	44.9	44.9
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5
2.5°	1370.6	1368.9	1369.7	1369.7	1371.4	1368.9	1372.3	1375.7	1376.5	1376.5	1377.3
5°	1388.4	1386.7	1392.6	1390.1	1396.0	1395.1	1399.4	1402.8	1404.5	1404.5	1404.5
7.5°	1416.3	1422.2	1425.6	1434.9	1435.8	1440.9	1445.1	1449.3	1447.7	1448.5	1447.7
10°	1447.7	1455.3	1463.7	1473.1	1473.9	1479.8	1486.6	1490.9	1489.2	1488.3	1485.8
12.5°	1474.8	1479.8	1490.0	1499.3	1504.4	1513.7	1520.5	1523.9	1523.9	1521.3	1518.8
15°	1473.1	1480.7	1491.7	1505.3	1514.6	1528.1	1540.0	1547.6	1548.5	1545.9	1545.1
17.5°	1435.8	1446.8	1457.0	1475.6	1492.5	1511.2	1530.7	1541.7	1551.8	1557.8	1561.2
20°	1368.9	1382.4	1396.8	1421.4	1444.3	1468.8	1491.7	1507.8	1523.0	1540.8	1562.0
22.5°	1290.1	1310.4	1330.8	1362.1	1390.1	1418.0	1444.3	1463.7	1487.5	1518.0	1557.8
25°	1197.8	1218.9	1244.4	1280.8	1316.4	1357.0	1396.0	1434.9	1480.7	1533.2	1595.0
27.5°	1088.5	1112.2	1145.2	1189.3	1230.0	1271.5	1332.4	1394.3	1468.8	1536.6	1606.9
30°	980.1	1010.6	1046.1	1090.2	1130.8	1190.1	1251.1	1327.4	1406.1	1482.4	1566.2
32.5°	863.2	901.3	945.3	981.8	1027.5	1087.6	1148.6	1230.0	1313.8	1403.6	1495.9
35°	750.5	786.9	821.7	862.3	908.1	964.8	1024.1	1102.0	1207.9	1303.6	1413.8
37.5°	636.2	670.0	694.6	726.8	766.6	829.3	892.8	982.6	1082.6	1200.3	1310.4
40°	536.2	564.2	592.1	617.5	651.4	710.7	778.5	866.6	964.8	1079.2	1202.0
42.5°	456.6	477.8	508.2	538.7	567.5	618.4	681.9	768.3	865.7	982.6	1105.4
45°	389.7	404.1	428.6	454.0	489.6	532.0	593.0	681.0	780.2	897.9	1027.5
47.5°	341.4	348.1	365.1	391.3	424.4	465.9	518.4	598.0	694.6	813.2	949.6
50°	308.3	316.0	324.4	346.5	376.1	418.5	461.7	531.1	619.2	735.3	870.8
52.5°	285.5	288.9	292.2	305.8	332.9	368.5	414.2	466.7	555.7	666.6	788.6
55°	271.9	272.8	275.3	282.1	302.4	335.4	375.3	425.2	494.7	599.7	724.2
57.5°	255.8	257.5	260.1	264.3	277.0	306.6	340.5	381.2	438.8	526.9	646.3
60°	240.6	244.8	249.0	251.6	258.4	276.1	304.9	337.1	383.7	449.8	544.7
62.5°	224.5	229.6	232.9	235.5	238.0	249.0	270.2	291.4	320.2	363.4	434.5
65°	210.1	213.5	216.0	217.7	219.4	222.8	232.1	240.6	249.0	275.3	327.0
67.5°	194.0	195.7	196.5	197.4	196.5	196.5	197.4	200.8	204.1	214.3	238.9
70°	175.3	177.9	177.9	178.7	178.7	176.2	176.2	176.2	176.2	178.7	192.3
72.5°	157.6	160.9	160.9	161.8	160.9	160.1	160.1	160.1	162.6	164.3	169.4
75°	140.6	144.0	143.2	144.0	144.8	144.8	146.5	147.4	149.9	150.8	154.2
77.5°	123.7	126.2	127.1	126.2	127.9	129.6	133.0	134.7	135.5	136.4	137.2
80°	107.6	109.3	108.4	105.9	110.1	112.7	117.7	123.7	122.0	122.8	124.5
82.5°	88.9	86.4	84.7	86.4	88.9	92.3	97.4	105.0	105.9	110.1	109.3
85°	68.6	61.0	60.1	64.4	63.5	67.8	76.2	82.2	87.2	91.5	87.2
87.5°	40.7	36.4	30.5	28.8	31.3	41.5	43.2	52.5	56.8	58.4	52.5
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5
2.5°	1454.4	1458.7	1458.7	1460.4	1462.9	1463.7	1467.1	1473.1	1473.9	1473.9	1476.5
5°	1481.5	1485.8	1485.8	1489.2	1490.0	1494.2	1498.5	1505.3	1508.6	1507.8	1518.8
7.5°	1525.6	1522.2	1519.7	1524.7	1527.3	1532.4	1540.8	1546.8	1552.7	1562.0	1577.3
10°	1562.9	1557.8	1555.2	1558.6	1560.3	1566.2	1571.3	1579.8	1594.2	1608.6	1627.2
12.5°	1593.3	1587.4	1580.6	1582.3	1584.9	1592.5	1601.0	1612.0	1633.2	1651.8	1679.8
15°	1618.8	1610.3	1603.5	1606.9	1612.8	1623.0	1637.4	1656.9	1691.6	1723.8	1761.1
17.5°	1643.3	1641.6	1639.1	1650.1	1654.3	1678.1	1699.2	1734.8	1782.2	1830.5	1883.9
20°	1667.0	1685.7	1695.0	1717.0	1730.6	1762.8	1795.0	1838.2	1898.3	1964.4	2037.2
22.5°	1700.1	1750.9	1782.2	1827.1	1850.0	1884.7	1932.2	1988.9	2055.9	2140.6	2233.7
25°	1778.9	1853.4	1916.1	1986.4	2044.0	2097.4	2154.1	2222.7	2319.3	2396.4	2518.4
27.5°	1813.6	1918.6	2012.7	2111.8	2198.2	2280.3	2370.1	2453.1	2567.5	2671.7	2819.1
30°	1780.6	1899.1	2021.1	2150.7	2276.9	2401.5	2531.9	2659.0	2791.1	2936.8	3093.5
32.5°	1719.6	1852.6	1989.8	2142.3	2299.0	2460.8	2630.2	2814.8	3001.2	3182.5	3342.6
35°	1657.7	1800.9	1953.4	2127.9	2312.5	2513.3	2723.3	2957.1	3203.6	3433.2	3642.4
37.5°	1567.9	1725.5	1900.0	2101.6	2321.0	2568.3	2838.6	3126.6	3438.3	3754.2	4028.7
40°	1459.5	1626.4	1817.0	2049.1	2312.5	2625.1	2976.6	3345.9	3746.6	4132.0	4469.2
42.5°	1360.4	1523.0	1726.3	1978.8	2290.5	2675.1	3107.9	3567.9	4042.2	4473.4	4913.9
45°	1273.2	1452.7	1656.9	1929.6	2279.5	2717.4	3205.3	3733.9	4276.9	4790.2	5310.3
47.5°	1193.5	1379.9	1608.6	1902.5	2274.4	2742.8	3273.1	3842.3	4443.8	5033.3	5637.3
50°	1111.4	1292.6	1537.4	1872.9	2261.7	2742.0	3308.7	3916.0	4560.7	5222.2	5862.6
52.5°	1023.3	1205.4	1451.0	1818.7	2234.6	2726.7	3318.0	3966.0	4653.0	5338.3	6054.0
55°	942.8	1113.1	1358.7	1728.0	2177.8	2689.5	3296.8	3987.2	4718.2	5453.5	6188.7
57.5°	850.5	1027.5	1261.3	1603.5	2071.1	2623.4	3236.7	3957.5	4736.8	5530.6	6295.5
60°	723.4	897.1	1137.6	1456.1	1904.2	2483.6	3124.9	3867.7	4677.6	5544.1	6371.7
62.5°	577.7	727.6	959.7	1252.8	1669.6	2264.2	2918.2	3666.1	4492.9	5417.0	6332.7
65°	429.5	529.4	729.3	986.8	1397.7	1933.9	2585.3	3328.2	4132.0	5063.8	6087.9
67.5°	299.0	371.0	493.8	685.3	1016.5	1493.4	2110.1	2800.4	3573.8	4409.9	5579.7
70°	226.2	259.2	326.1	432.9	658.2	1017.3	1534.1	2149.0	2866.5	3672.1	4774.1
72.5°	193.1	210.1	247.3	296.5	403.2	618.4	963.1	1479.0	2115.1	2770.8	3662.8
75°	173.7	188.1	211.8	243.1	285.5	375.3	565.0	936.0	1401.1	1855.9	2555.6
77.5°	157.6	170.3	191.4	207.5	230.4	270.2	360.0	559.9	839.5	1146.9	1585.7
80°	140.6	148.2	167.7	183.8	201.6	224.5	258.4	351.5	482.0	679.4	935.2
82.5°	120.3	126.2	140.6	162.6	176.2	185.5	195.7	232.9	288.9	368.5	519.3
85°	93.2	97.4	110.1	126.2	132.1	133.0	134.7	144.8	179.6	276.1	447.3
87.5°	47.4	52.5	66.1	71.2	60.1	65.2	66.1	70.3	93.2	151.6	154.2
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°	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	0°
2.5°	1476.5	1479.0	1484.9	1484.1	1488.3	1488.3	1488.3	1492.5	1490.0	1492.5	1496.8	2.5°
5°	1518.8	1523.0	1531.5	1531.5	1532.4	1529.8	1534.9	1538.3	1534.1	1532.4	1533.2	5°
7.5°	1580.6	1587.4	1594.2	1601.0	1606.1	1603.5	1604.4	1596.7	1595.0	1589.1	1581.5	7.5°
10°	1640.8	1659.4	1672.1	1684.0	1684.8	1682.3	1683.1	1670.4	1667.9	1656.0	1648.4	10°
12.5°	1702.6	1726.3	1746.7	1759.4	1767.0	1768.7	1769.5	1769.5	1757.7	1747.5	1729.7	12.5°
15°	1794.1	1835.6	1867.0	1880.5	1891.5	1901.7	1904.2	1907.6	1898.3	1884.7	1882.2	15°
17.5°	1939.0	1977.9	2019.4	2055.9	2080.4	2082.1	2103.3	2101.6	2121.1	2105.8	2101.6	17.5°
20°	2110.9	2195.6	2238.8	2287.1	2315.1	2328.6	2377.7	2362.5	2376.9	2401.5	2376.9	20°
22.5°	2326.1	2433.6	2496.3	2562.4	2608.1	2641.2	2676.8	2704.7	2743.7	2762.3	2745.4	22.5°
25°	2611.5	2734.4	2808.9	2900.4	2973.2	3032.5	3094.4	3168.9	3168.1	3213.0	3244.3	25°
27.5°	2939.4	3096.1	3204.5	3365.4	3428.1	3528.1	3634.0	3749.2	3769.5	3827.9	3857.6	27.5°
30°	3247.7	3441.7	3656.8	3848.3	4065.1	4213.4	4336.2	4417.5	4540.3	4509.8	4492.9	30°
32.5°	3532.3	3790.7	4097.3	4411.6	4755.5	4990.1	5207.0	5307.8	5384.0	5222.2	5007.9	32.5°
35°	3901.6	4210.8	4561.5	4949.5	5386.6	5719.5	5943.1	5974.4	5931.2	5723.7	5368.8	35°
37.5°	4359.1	4683.5	5082.5	5492.4	5956.6	6269.2	6524.2	6569.9	6455.6	6085.4	5712.7	37.5°
40°	4810.5	5190.9	5623.7	6109.1	6590.2	6934.2	7190.0	7203.5	7017.2	6584.3	6148.1	40°
42.5°	5304.4	5720.3	6202.3	6740.2	7237.4	7585.6	7770.2	7828.7	7565.2	7010.4	6591.9	42.5°
45°	5730.5	6227.7	6764.7	7336.5	7856.6	8187.0	8375.0	8356.4	8037.9	7489.8	6999.4	45°
47.5°	6145.5	6692.7	7258.6	7865.9	8382.7	8716.4	8909.5	8892.6	8488.5	7857.5	7317.9	47.5°
50°	6514.9	7108.7	7713.5	8362.3	8877.4	9183.1	9419.5	9344.9	8834.2	8153.1	7522.9	50°
52.5°	6771.5	7433.9	8065.9	8767.2	9297.5	9587.2	9887.9	9648.2	9038.3	8334.4	7633.0	52.5°
55°	6934.2	7657.6	8316.6	9092.5	9613.5	9959.9	10153.9	9813.4	9117.1	8384.4	7671.1	55°
57.5°	7044.3	7780.4	8464.0	9280.6	9898.1	10188.6	10236.1	9819.3	9066.3	8305.6	7633.0	57.5°
60°	7098.5	7816.8	8530.9	9412.7	10098.0	10257.2	10170.8	9682.1	8890.9	8074.3	7387.3	60°
62.5°	7092.6	7771.1	8496.2	9456.8	10137.8	10158.1	9961.6	9448.3	8568.2	7589.0	6979.1	62.5°
65°	6941.8	7604.2	8300.5	9293.3	9952.3	9865.0	9617.7	9009.5	7940.5	6955.3	6647.0	65°
67.5°	6507.2	7142.5	7788.9	8757.9	9429.6	9344.9	8970.5	8147.2	7211.2	6394.6	6228.5	67.5°
70°	5780.4	6319.2	6886.7	7738.0	8442.8	8328.4	7673.7	7173.0	6488.6	5746.6	5689.0	70°
72.5°	4832.6	5240.9	5652.5	6286.1	6771.5	6537.7	6126.1	6099.8	5546.7	4980.0	4991.8	72.5°
75°	3779.7	4086.3	4278.6	4651.3	4974.0	4764.8	4789.4	4935.1	4752.9	4306.5	4161.7	75°
77.5°	2738.6	3032.5	3093.5	3314.6	3541.6	3779.7	4094.8	4437.8	4495.4	4244.7	3719.5	77.5°
80°	1792.4	2116.0	1995.7	2074.5	2393.8	2828.4	3403.5	3968.5	4162.5	3937.2	3290.9	80°
82.5°	1057.2	1510.3	1318.9	1453.6	1656.0	2034.7	2432.0	2858.0	3182.5	2942.7	2748.8	82.5°
85°	803.0	1191.0	1261.3	1424.8	1490.9	1506.9	1576.4	1715.3	1883.0	1945.7	1940.7	85°
87.5°	418.5	925.9	1039.4	961.4	897.1	777.6	606.5	653.1	597.2	816.6	773.4	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°
1415.5	1415.5	1415.5	1415.5	1415.5	1415.5	1415.5
1497.6	1495.1	1496.8	1497.6	1497.6	1497.6	1499.3
1532.4	1525.6	1523.0	1523.0	1522.2	1519.7	1518.8
1569.6	1557.8	1553.5	1548.5	1544.2	1541.7	1537.4
1636.6	1626.4	1605.2	1593.3	1582.3	1574.7	1567.9
1726.3	1711.9	1691.6	1676.4	1659.4	1654.3	1645.9
1865.3	1852.6	1834.8	1817.8	1807.7	1789.9	1777.2
2082.1	2056.7	2038.9	2016.9	1992.3	1955.9	1938.1
2367.6	2316.8	2281.2	2261.7	2212.6	2206.6	2163.4
2695.4	2680.1	2625.9	2602.2	2554.8	2536.1	2468.4
3185.9	3174.0	3063.0	3051.2	2978.3	2924.1	2819.1
3830.5	3733.1	3607.7	3520.4	3395.9	3256.2	3077.4
4393.8	4194.7	4003.3	3800.0	3628.0	3427.3	3224.8
4752.9	4486.1	4239.6	4031.2	3818.6	3579.7	3319.7
5068.1	4798.7	4530.2	4283.7	4026.2	3720.4	3399.3
5445.0	5177.3	4874.9	4528.5	4198.1	3823.7	3431.5
5831.3	5517.9	5140.1	4715.7	4300.6	3874.5	3425.6
6226.9	5826.2	5323.9	4840.2	4365.8	3882.1	3385.8
6547.9	6041.3	5460.2	4903.7	4379.4	3855.9	3335.8
6774.9	6179.4	5521.2	4925.7	4362.4	3814.4	3268.0
6904.5	6254.8	5536.5	4909.7	4327.7	3755.1	3194.3
6951.9	6277.7	5521.2	4876.6	4296.4	3691.6	3142.7
6946.9	6265.0	5465.3	4799.5	4212.5	3606.8	3079.1
6851.1	6147.2	5351.0	4707.2	4141.4	3567.9	3083.4
6688.5	6072.7	5317.1	4725.8	4178.6	3651.7	3217.2
6614.8	6221.8	5507.7	4912.2	4370.1	3891.5	3493.3
6573.3	6464.0	5780.4	5112.9	4597.1	4182.0	3822.9
6403.9	6533.5	5935.5	5227.3	4799.5	4473.4	4152.4
6130.3	6371.7	5817.7	5205.3	4911.3	4697.0	4271.0
5559.4	5814.3	5293.4	4880.8	4771.6	4700.4	4093.1
4503.9	4636.0	4339.6	4246.4	4287.0	4287.9	3433.2
3321.4	3241.8	3107.9	3114.7	3388.3	3345.9	2447.2
2711.5	2219.3	2029.6	2101.6	2439.6	2257.5	1537.4
2523.4	1979.6	1634.0	1651.0	1842.4	1454.4	925.9
2040.6	1804.3	1446.8	1298.6	1260.4	969.1	628.5
853.9	785.2	584.5	526.9	432.0	264.3	120.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)