

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: STREETWORKS

Report Number: P159108

Luminaire Tested: **VST-E05-LED-E-U-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159108
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: STREETWORKS
Catalog Number: VST-E05-LED-E-U-SLR-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11340.2 lumens
Efficiency: N/A
Efficacy: 89.1 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

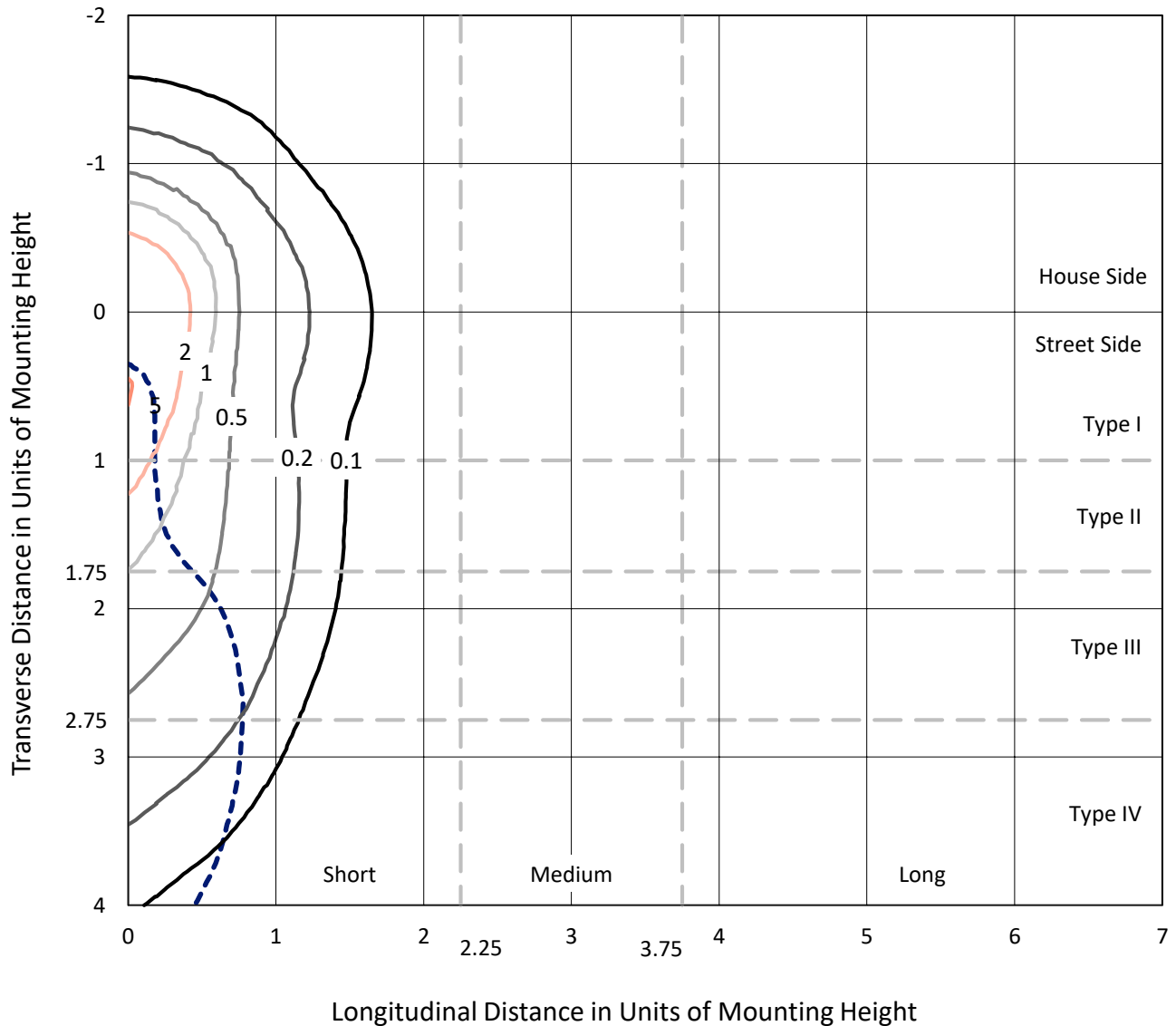
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

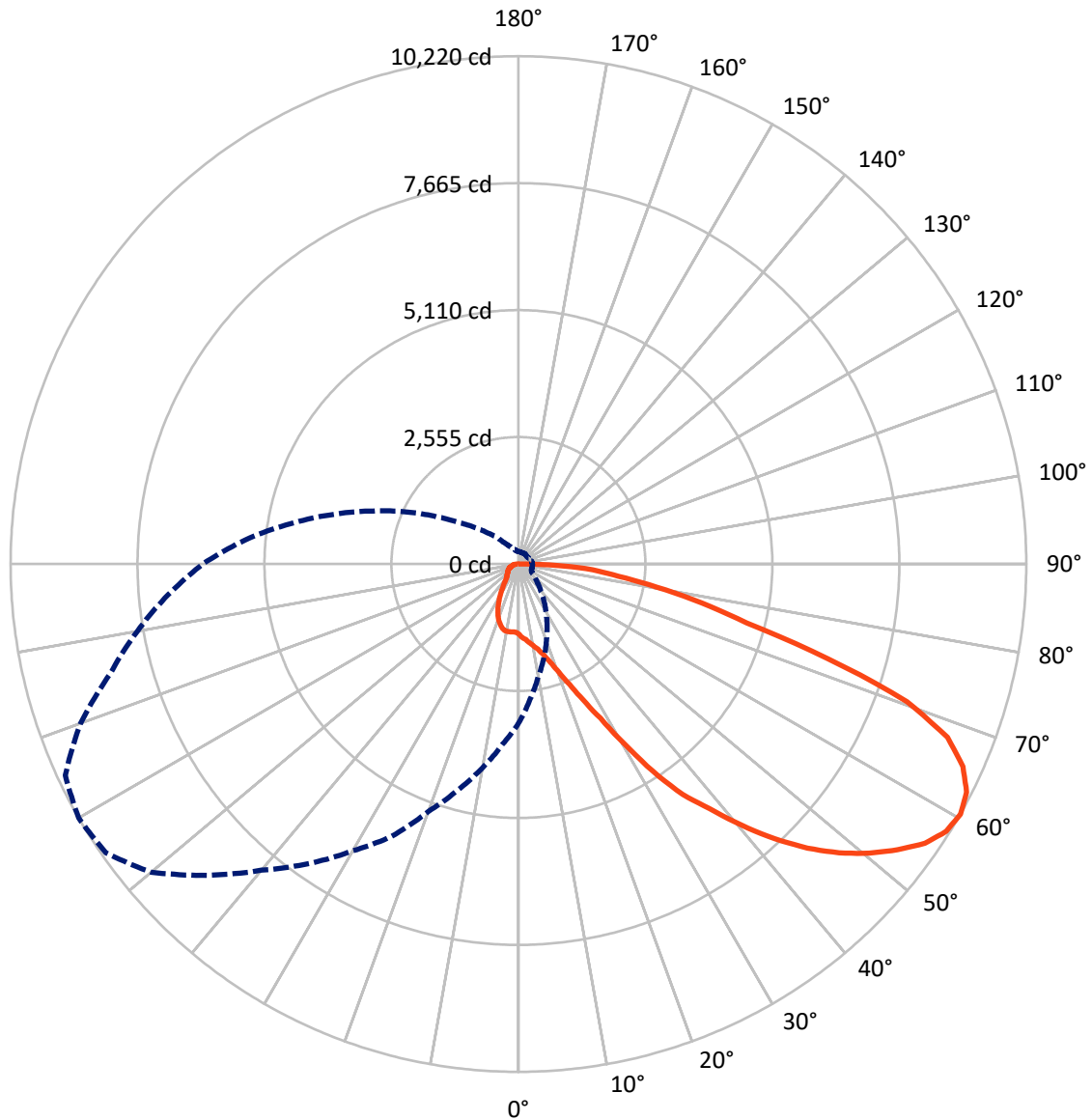
× Max cd
 - - - 1/2 Max cd



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	2553.5	0.0	2553.5
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	8786.7	0.0	8786.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	11340.2	0.0	11340.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.1	1.2
10°-20°	449.2	4.0
20°-30°	852.5	7.5
30°-40°	1342.5	11.8
40°-50°	1873.8	16.5
50°-60°	2317.5	20.4
60°-70°	2402.2	21.2
70°-80°	1511.5	13.3
80°-90°	451.8	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°	11340.2	100.0
0°-180°	11340.2	100.0



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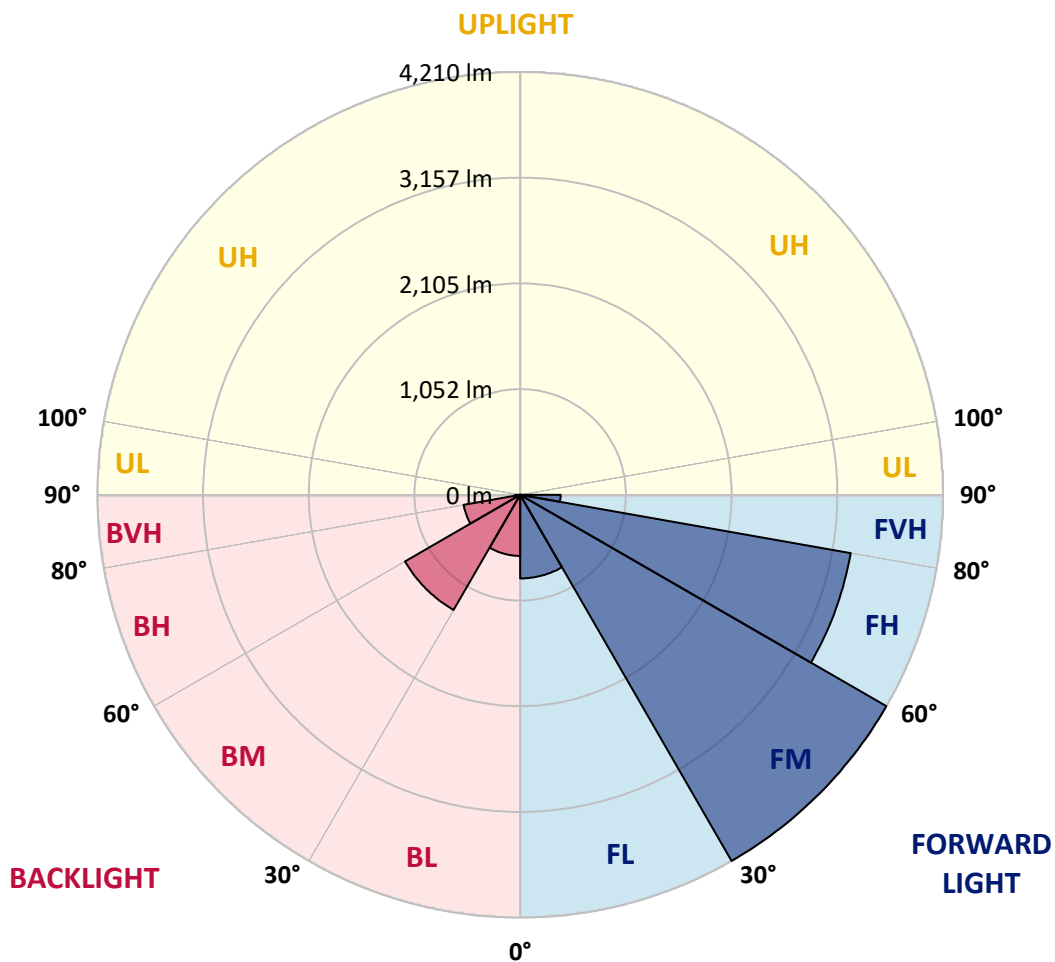
CATALOG NUMBER: VST-E05-LED-E-U-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	832.5	7.3			
FM	(30°-60°)	4209.7	37.1			
FH	(60°-80°)	3341.9	29.5			G2/5000
FVH	(80°-90°)	402.7	3.6			G3/500
BL	(0°-30°)	608.3	5.4	B2/1000		
BM	(30°-60°)	1324.1	11.7	B2/2500		
BH	(60°-80°)	571.9	5.0	B2/1000		G2/1000
BVH	(80°-90°)	49.2	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°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1493.9	1404.4	1406.1	1403.6	1403.6	1401.9	1403.6	1401.9	1400.2	1400.2	1401.0
5°	1513.3	1414.5	1414.5	1412.0	1410.3	1408.6	1410.3	1408.6	1407.8	1406.1	1406.9
7.5°	1531.8	1420.4	1417.1	1413.7	1409.5	1411.2	1411.2	1410.3	1411.2	1410.3	1412.0
10°	1562.2	1439.8	1431.4	1423.8	1423.0	1421.3	1421.3	1418.7	1418.7	1417.1	1417.9
12.5°	1639.9	1499.8	1490.5	1477.0	1474.5	1466.9	1462.6	1457.6	1449.1	1441.5	1435.6
15°	1770.7	1599.4	1581.6	1569.8	1564.8	1549.6	1525.9	1507.4	1482.9	1461.8	1439.8
17.5°	1931.1	1732.7	1711.6	1696.4	1671.1	1629.7	1590.1	1544.5	1497.2	1454.2	1414.5
20°	2155.6	1924.3	1882.9	1846.7	1783.4	1712.5	1638.2	1558.9	1486.3	1418.7	1360.5
22.5°	2459.4	2171.6	2094.8	1997.7	1880.4	1760.6	1642.4	1532.7	1435.6	1347.9	1270.2
25°	2808.8	2407.9	2269.5	2102.4	1922.6	1757.2	1601.9	1460.9	1347.9	1234.8	1150.4
27.5°	3066.2	2605.4	2401.2	2181.7	1952.2	1741.2	1550.4	1379.9	1243.2	1127.6	1025.4
30°	3213.1	2718.5	2472.9	2215.5	1957.2	1714.1	1485.4	1287.9	1130.1	992.5	894.6
32.5°	3307.6	2779.3	2480.5	2181.7	1896.4	1634.0	1386.7	1181.6	1010.3	863.4	759.6
35°	3386.9	2803.7	2445.0	2106.6	1781.7	1512.4	1260.1	1055.0	873.5	738.5	632.1
37.5°	3419.0	2799.5	2388.5	2006.2	1669.4	1379.9	1130.9	920.8	758.7	639.7	548.6
40°	3413.1	2760.7	2311.7	1899.0	1537.8	1241.5	994.2	809.4	677.7	577.3	510.6
42.5°	3373.4	2709.2	2226.4	1790.1	1417.1	1126.7	901.4	737.6	631.3	555.3	497.1
45°	3323.6	2647.6	2148.8	1690.5	1321.7	1044.9	847.4	717.4	625.4	552.8	490.4
47.5°	3256.1	2579.2	2070.3	1619.6	1271.1	1020.4	846.5	729.2	630.5	546.9	478.5
50°	3182.7	2529.4	2027.3	1589.2	1265.1	1035.6	876.1	747.8	633.8	541.0	462.5
52.5°	3131.2	2507.5	2026.4	1600.2	1296.4	1077.8	910.7	771.4	646.5	544.4	459.1
55°	3067.9	2504.1	2048.4	1647.5	1364.7	1149.5	965.5	811.9	672.7	557.0	461.7
57.5°	3072.1	2570.8	2133.6	1763.9	1488.0	1246.6	1035.6	861.7	698.0	564.6	457.4
60°	3205.5	2726.1	2301.6	1963.1	1649.2	1360.5	1107.3	888.7	696.3	547.8	437.2
62.5°	3480.6	2959.0	2553.1	2196.9	1812.9	1448.3	1133.5	881.1	671.0	511.5	404.3
65°	3808.9	3231.6	2797.8	2378.4	1912.5	1468.5	1110.7	838.9	620.3	464.2	364.6
67.5°	4137.2	3424.9	2938.8	2429.8	1872.0	1386.7	1026.3	744.4	534.2	400.1	319.9
70°	4255.4	3464.6	2927.8	2314.2	1688.0	1183.3	844.8	599.2	428.7	327.5	269.2
72.5°	4078.2	3216.4	2602.9	1966.5	1372.3	917.4	619.5	442.3	327.5	256.6	219.4
75°	3420.7	2590.2	2057.6	1481.2	990.8	649.0	447.3	322.4	246.4	203.4	175.6
77.5°	2438.3	1803.6	1401.9	973.1	643.1	449.8	320.7	242.2	195.8	162.9	142.6
80°	1531.8	1107.3	854.1	584.0	400.9	305.5	230.4	191.6	157.8	132.5	119.0
82.5°	922.5	644.8	503.0	362.9	263.3	209.3	169.6	150.2	125.8	109.7	102.1
85°	626.2	474.3	330.0	214.4	158.7	123.2	115.6	103.8	93.7	78.5	76.0
87.5°	119.8	169.6	147.7	87.8	58.2	49.8	43.9	42.2	38.0	30.4	34.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1396.0	1394.3	1390.9	1390.9	1388.4	1383.3	1382.5	1379.1	1374.9	1375.7	1374.9
5°	1401.0	1397.6	1393.4	1391.7	1388.4	1383.3	1380.8	1376.5	1372.3	1372.3	1372.3
7.5°	1406.9	1402.7	1399.3	1393.4	1386.7	1381.6	1374.9	1369.8	1367.3	1366.4	1367.3
10°	1412.0	1409.5	1404.4	1396.0	1386.7	1376.5	1369.8	1363.0	1356.3	1357.1	1358.0
12.5°	1423.0	1414.5	1401.0	1388.4	1374.0	1361.4	1349.5	1341.1	1332.7	1332.7	1333.5
15°	1415.4	1390.9	1372.3	1347.9	1331.8	1311.6	1298.1	1290.5	1285.4	1283.7	1284.6
17.5°	1370.6	1341.1	1313.2	1291.3	1269.4	1253.3	1247.4	1242.4	1235.6	1239.0	1235.6
20°	1303.1	1266.8	1227.2	1201.0	1174.8	1163.9	1153.7	1148.7	1144.5	1159.6	1159.6
22.5°	1206.1	1162.2	1121.7	1089.6	1060.1	1048.2	1038.1	1032.2	1034.7	1053.3	1055.0
25°	1083.7	1030.5	977.3	957.9	928.4	919.1	913.2	912.4	914.9	933.5	937.7
27.5°	953.7	898.0	852.4	807.7	794.2	786.6	775.6	788.3	790.8	811.1	819.5
30°	815.3	755.4	707.3	677.7	649.0	653.2	644.0	659.2	665.9	687.0	693.8
32.5°	673.5	617.0	568.8	539.3	519.1	521.6	514.8	528.3	535.1	560.4	573.1
35°	557.0	508.9	470.1	444.8	435.5	426.2	424.5	426.2	433.0	452.4	475.2
37.5°	490.4	450.7	422.8	404.3	391.6	385.7	382.3	382.3	382.3	386.5	397.5
40°	461.7	426.2	401.7	384.0	375.6	372.2	369.7	367.1	362.9	361.2	362.1
42.5°	449.0	408.5	382.3	368.8	363.8	363.8	363.8	362.1	357.9	353.6	349.4
45°	436.3	392.5	366.3	357.0	354.5	355.3	355.3	355.3	351.9	346.9	339.3
47.5°	420.3	374.7	348.6	342.7	342.7	345.2	346.0	346.0	342.7	337.6	331.7
50°	400.9	351.9	328.3	323.2	320.7	320.7	320.7	320.7	318.2	314.8	310.6
52.5°	390.8	339.3	314.8	309.7	309.7	307.2	306.4	303.8	301.3	298.8	292.9
55°	387.4	334.2	308.9	304.7	304.7	302.1	299.6	297.1	292.9	288.6	282.7
57.5°	378.1	323.2	301.3	297.9	297.9	296.2	293.7	291.2	287.0	281.0	273.5
60°	357.0	304.7	286.1	285.3	285.3	284.4	282.7	282.7	278.5	272.6	263.3
62.5°	330.0	285.3	267.5	267.5	266.7	265.9	262.5	261.6	256.6	249.0	240.5
65°	303.8	268.4	256.6	253.2	251.5	249.0	247.3	243.1	238.8	232.1	223.7
67.5°	270.9	243.1	235.5	232.1	228.7	226.2	223.7	221.1	216.1	211.0	204.2
70°	235.5	215.2	211.0	210.2	205.9	203.4	202.6	200.0	195.0	189.9	181.5
72.5°	201.7	189.9	186.5	186.5	181.5	178.1	176.4	175.6	172.2	168.0	160.4
75°	162.9	154.5	153.6	157.8	157.8	155.3	153.6	155.3	150.2	147.7	140.1
77.5°	133.4	129.1	126.6	128.3	133.4	130.8	127.4	127.4	127.4	123.2	120.7
80°	113.1	109.7	107.2	108.9	108.0	107.2	105.5	102.1	102.1	102.1	101.3
82.5°	102.1	101.3	92.0	92.0	88.6	86.1	84.4	82.7	81.0	81.0	85.2
85°	76.8	79.3	74.3	73.4	69.2	65.8	62.5	60.8	59.1	61.6	70.1
87.5°	37.1	37.1	35.4	39.7	36.3	34.6	32.1	30.4	32.1	39.7	47.3
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°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1373.2	1372.3	1371.5	1369.8	1366.4	1365.6	1363.9	1363.9	1363.0	1361.4	1363.0
5°	1370.6	1372.3	1372.3	1371.5	1369.0	1370.6	1370.6	1373.2	1373.2	1374.9	1379.1
7.5°	1367.3	1371.5	1374.9	1377.4	1380.8	1383.3	1388.4	1396.0	1399.3	1405.2	1407.8
10°	1360.5	1368.1	1374.0	1381.6	1390.1	1399.3	1406.9	1418.7	1423.0	1431.4	1435.6
12.5°	1341.1	1353.8	1363.9	1379.1	1393.4	1407.8	1421.3	1436.5	1444.1	1453.4	1459.3
15°	1293.8	1308.2	1322.5	1336.0	1361.4	1389.2	1411.2	1431.4	1442.4	1454.2	1460.1
17.5°	1237.3	1246.6	1258.4	1276.1	1300.6	1325.1	1360.5	1389.2	1406.1	1419.6	1421.3
20°	1171.5	1185.0	1193.4	1200.2	1219.6	1236.4	1274.4	1307.3	1329.3	1345.3	1349.5
22.5°	1071.0	1085.4	1099.7	1104.8	1120.0	1141.9	1163.0	1198.5	1229.7	1253.3	1267.7
25°	956.2	969.7	989.2	1004.3	1007.7	1025.4	1046.5	1087.1	1119.1	1157.1	1174.0
27.5°	841.5	853.3	874.4	882.8	892.9	910.7	927.5	961.3	995.1	1039.0	1057.5
30°	707.3	732.6	757.1	773.1	781.5	802.6	814.5	847.4	878.6	910.7	937.7
32.5°	592.5	615.3	643.1	663.4	673.5	689.5	708.1	736.0	760.4	791.7	822.9
35°	487.0	518.2	536.8	554.5	580.7	588.3	606.8	632.1	646.5	680.3	715.7
37.5°	412.7	431.3	449.8	467.6	489.5	499.6	517.4	538.5	555.3	575.6	607.7
40°	367.1	377.3	390.8	402.6	418.6	431.3	440.6	458.3	470.9	491.2	514.0
42.5°	346.0	348.6	350.3	358.7	367.1	375.6	385.7	393.3	408.5	423.7	438.0
45°	334.2	329.2	326.6	327.5	330.8	335.9	344.3	352.8	362.9	372.2	380.6
47.5°	324.1	317.3	309.7	305.5	306.4	308.1	314.8	321.6	326.6	334.2	337.6
50°	300.5	294.6	287.8	281.9	282.7	283.6	289.5	294.6	297.9	300.5	304.7
52.5°	285.3	276.8	270.9	265.0	264.2	266.7	271.8	276.8	278.5	280.2	281.0
55°	274.3	265.9	258.3	252.4	249.8	255.7	257.4	264.2	266.7	266.7	267.5
57.5°	265.9	255.7	248.1	242.2	238.0	242.2	246.4	254.0	254.9	253.2	253.2
60°	253.2	245.6	238.0	232.1	227.9	231.3	234.6	243.1	243.1	238.8	238.0
62.5°	231.3	227.0	222.0	219.4	218.6	222.0	224.5	231.3	228.7	223.7	222.0
65°	215.2	211.8	206.8	205.1	204.2	209.3	210.2	214.4	211.0	208.5	207.6
67.5°	195.8	193.3	190.7	189.9	187.4	187.4	189.1	191.6	189.9	189.9	190.7
70°	173.9	170.5	168.0	168.8	167.1	167.1	168.0	169.6	168.8	170.5	172.2
72.5°	153.6	149.4	148.5	148.5	146.9	147.7	147.7	148.5	150.2	151.1	155.3
75°	134.2	130.0	130.0	129.1	129.1	129.1	130.0	131.7	133.4	134.2	135.9
77.5°	116.5	113.9	114.8	113.9	113.9	113.9	113.9	116.5	117.3	118.2	120.7
80°	100.4	100.4	101.3	101.3	100.4	99.6	100.4	102.1	103.0	103.8	104.7
82.5°	91.2	92.0	92.0	92.0	87.8	86.1	88.6	90.3	92.0	92.8	94.5
85°	78.5	75.1	78.5	77.6	71.7	70.9	70.9	71.7	73.4	71.7	71.7
87.5°	50.6	45.6	48.1	48.1	42.2	34.6	43.9	47.3	42.2	44.7	44.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1365.6	1363.9	1364.7	1364.7	1366.4	1363.9	1367.3	1370.6	1371.5	1371.5	1372.3
5°	1383.3	1381.6	1387.5	1385.0	1390.9	1390.1	1394.3	1397.6	1399.3	1399.3	1399.3
7.5°	1411.2	1417.1	1420.4	1429.7	1430.6	1435.6	1439.8	1444.1	1442.4	1443.2	1442.4
10°	1442.4	1450.0	1458.4	1467.7	1468.5	1474.5	1481.2	1485.4	1483.7	1482.9	1480.4
12.5°	1469.4	1474.5	1484.6	1493.9	1498.9	1508.2	1515.0	1518.3	1518.3	1515.8	1513.3
15°	1467.7	1475.3	1486.3	1499.8	1509.1	1522.6	1534.4	1542.0	1542.8	1540.3	1539.4
17.5°	1430.6	1441.5	1451.7	1470.2	1487.1	1505.7	1525.1	1536.1	1546.2	1552.1	1555.5
20°	1363.9	1377.4	1391.7	1416.2	1439.0	1463.5	1486.3	1502.3	1517.5	1535.2	1556.3
22.5°	1285.4	1305.7	1325.9	1357.1	1385.0	1412.8	1439.0	1458.4	1482.0	1512.4	1552.1
25°	1193.4	1214.5	1239.8	1276.1	1311.6	1352.1	1390.9	1429.7	1475.3	1527.6	1589.2
27.5°	1084.5	1108.2	1141.1	1185.0	1225.5	1266.8	1327.6	1389.2	1463.5	1531.0	1601.1
30°	976.5	1006.9	1042.3	1086.2	1126.7	1185.8	1246.6	1322.5	1401.0	1477.0	1560.5
32.5°	860.0	898.0	941.9	978.2	1023.8	1083.7	1144.5	1225.5	1309.0	1398.5	1490.5
35°	747.8	784.1	818.7	859.2	904.8	961.3	1020.4	1098.0	1203.5	1298.9	1408.6
37.5°	633.8	667.6	692.1	724.1	763.8	826.3	889.6	979.0	1078.6	1195.9	1305.7
40°	534.2	562.1	589.9	615.3	649.0	708.1	775.6	863.4	961.3	1075.2	1197.6
42.5°	454.9	476.0	506.4	536.8	565.5	616.1	679.4	765.5	862.6	979.0	1101.4
45°	388.2	402.6	427.1	452.4	487.8	530.0	590.8	678.6	777.3	894.6	1023.8
47.5°	340.1	346.9	363.8	389.9	422.8	464.2	516.5	595.9	692.1	810.2	946.1
50°	307.2	314.8	323.2	345.2	374.7	416.9	460.0	529.2	617.0	732.6	867.6
52.5°	284.4	287.8	291.2	304.7	331.7	367.1	412.7	465.0	553.7	664.2	785.8
55°	270.9	271.8	274.3	281.0	301.3	334.2	373.9	423.7	492.9	597.5	721.6
57.5°	254.9	256.6	259.1	263.3	276.0	305.5	339.3	379.8	437.2	525.0	644.0
60°	239.7	243.9	248.1	250.7	257.4	275.1	303.8	335.9	382.3	448.2	542.7
62.5°	223.7	228.7	232.1	234.6	237.2	248.1	269.2	290.3	319.0	362.1	433.0
65°	209.3	212.7	215.2	216.9	218.6	222.0	231.3	239.7	248.1	274.3	325.8
67.5°	193.3	195.0	195.8	196.6	195.8	195.8	196.6	200.0	203.4	213.5	238.0
70°	174.7	177.2	177.2	178.1	178.1	175.6	175.6	175.6	175.6	178.1	191.6
72.5°	157.0	160.4	160.4	161.2	160.4	159.5	159.5	159.5	162.0	163.7	168.8
75°	140.1	143.5	142.6	143.5	144.3	144.3	146.0	146.9	149.4	150.2	153.6
77.5°	123.2	125.8	126.6	125.8	127.4	129.1	132.5	134.2	135.0	135.9	136.7
80°	107.2	108.9	108.0	105.5	109.7	112.3	117.3	123.2	121.5	122.4	124.1
82.5°	88.6	86.1	84.4	86.1	88.6	92.0	97.1	104.7	105.5	109.7	108.9
85°	68.4	60.8	59.9	64.1	63.3	67.5	76.0	81.9	86.9	91.2	86.9
87.5°	40.5	36.3	30.4	28.7	31.2	41.4	43.0	52.3	56.5	58.2	52.3
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
2.5°	1449.1	1453.4	1453.4	1455.0	1457.6	1458.4	1461.8	1467.7	1468.5	1468.5	1471.1
5°	1476.1	1480.4	1480.4	1483.7	1484.6	1488.8	1493.0	1499.8	1503.1	1502.3	1513.3
7.5°	1520.0	1516.7	1514.1	1519.2	1521.7	1526.8	1535.2	1541.1	1547.0	1556.3	1571.5
10°	1557.2	1552.1	1549.6	1552.9	1554.6	1560.5	1565.6	1574.0	1588.4	1602.7	1621.3
12.5°	1587.5	1581.6	1574.9	1576.6	1579.1	1586.7	1595.1	1606.1	1627.2	1645.8	1673.6
15°	1612.9	1604.4	1597.7	1601.1	1607.0	1617.1	1631.4	1650.8	1685.4	1717.5	1754.7
17.5°	1637.3	1635.7	1633.1	1644.1	1648.3	1671.9	1693.0	1728.5	1775.8	1823.9	1877.0
20°	1661.0	1679.5	1688.8	1710.8	1724.3	1756.3	1788.4	1831.5	1891.4	1957.2	2029.8
22.5°	1693.9	1744.5	1775.8	1820.5	1843.3	1877.9	1925.1	1981.7	2048.4	2132.8	2225.6
25°	1772.4	1846.7	1909.1	1979.2	2036.6	2089.7	2146.3	2214.6	2310.8	2387.7	2509.2
27.5°	1807.0	1911.6	2005.3	2104.1	2190.2	2272.0	2361.5	2444.2	2558.1	2661.9	2808.8
30°	1774.1	1892.2	2013.8	2142.9	2268.6	2392.7	2522.7	2649.3	2781.0	2926.1	3082.3
32.5°	1713.3	1845.8	1982.5	2134.5	2290.6	2451.8	2620.6	2804.6	2990.3	3170.9	3330.4
35°	1651.7	1794.3	1946.2	2120.1	2304.1	2504.1	2713.4	2946.4	3192.0	3420.7	3629.2
37.5°	1562.2	1719.2	1893.1	2093.9	2312.5	2559.0	2828.2	3115.2	3425.8	3740.6	4014.0
40°	1454.2	1620.5	1810.4	2041.6	2304.1	2615.5	2965.8	3333.8	3733.0	4117.0	4452.9
42.5°	1355.4	1517.5	1720.1	1971.6	2282.2	2665.3	3096.6	3554.9	4027.5	4457.1	4896.0
45°	1268.5	1447.4	1650.8	1922.6	2271.2	2707.5	3193.7	3720.3	4261.3	4772.8	5291.0
47.5°	1189.2	1374.9	1602.7	1895.6	2266.1	2732.8	3261.2	3828.3	4427.6	5015.0	5616.8
50°	1107.3	1287.9	1531.8	1866.1	2253.5	2732.0	3296.6	3901.8	4544.0	5203.2	5841.3
52.5°	1019.5	1201.0	1445.8	1812.0	2226.4	2716.8	3305.9	3951.6	4636.0	5318.8	6032.0
55°	939.4	1109.0	1353.8	1721.7	2169.9	2679.7	3284.8	3972.7	4701.0	5433.6	6166.2
57.5°	847.4	1023.8	1256.7	1597.7	2063.6	2613.8	3224.9	3943.1	4719.6	5510.4	6272.5
60°	720.8	893.8	1133.5	1450.8	1897.3	2474.6	3113.5	3853.7	4660.5	5523.9	6348.5
62.5°	575.6	725.0	956.2	1248.3	1663.5	2256.0	2907.5	3652.8	4476.5	5397.3	6309.7
65°	427.9	527.5	726.7	983.2	1392.6	1926.8	2575.9	3316.0	4117.0	5045.4	6065.8
67.5°	297.9	369.7	492.0	682.8	1012.8	1488.0	2102.4	2790.2	3560.8	4393.8	5559.4
70°	225.3	258.3	324.9	431.3	655.8	1013.6	1528.5	2141.2	2856.1	3658.7	4756.7
72.5°	192.4	209.3	246.4	295.4	401.7	616.1	959.6	1473.6	2107.4	2760.7	3649.4
75°	173.0	187.4	211.0	242.2	284.4	373.9	562.9	932.6	1396.0	1849.2	2546.3
77.5°	157.0	169.6	190.7	206.8	229.6	269.2	358.7	557.9	836.4	1142.8	1580.0
80°	140.1	147.7	167.1	183.1	200.9	223.7	257.4	350.3	480.2	676.9	931.8
82.5°	119.8	125.8	140.1	162.0	175.6	184.8	195.0	232.1	287.8	367.1	517.4
85°	92.8	97.1	109.7	125.8	131.7	132.5	134.2	144.3	178.9	275.1	445.6
87.5°	47.3	52.3	65.8	70.9	59.9	65.0	65.8	70.1	92.8	151.1	153.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	0°
2.5°	1471.1	1473.6	1479.5	1478.7	1482.9	1482.9	1482.9	1487.1	1484.6	1487.1	1491.3	2.5°
5°	1513.3	1517.5	1525.9	1525.9	1526.8	1524.2	1529.3	1532.7	1528.5	1526.8	1527.6	5°
7.5°	1574.9	1581.6	1588.4	1595.1	1600.2	1597.7	1598.5	1590.9	1589.2	1583.3	1575.7	7.5°
10°	1634.8	1653.4	1666.0	1677.9	1678.7	1676.2	1677.0	1664.4	1661.8	1650.0	1642.4	10°
12.5°	1696.4	1720.1	1740.3	1753.0	1760.6	1762.3	1763.1	1763.1	1751.3	1741.2	1723.4	12.5°
15°	1787.6	1828.9	1860.2	1873.7	1884.6	1894.8	1897.3	1900.7	1891.4	1877.9	1875.3	15°
17.5°	1931.9	1970.7	2012.1	2048.4	2072.8	2074.5	2095.6	2093.9	2113.4	2098.2	2093.9	17.5°
20°	2103.2	2187.6	2230.7	2278.8	2306.6	2320.1	2369.1	2353.9	2368.2	2392.7	2368.2	20°
22.5°	2317.6	2424.8	2487.2	2553.1	2598.6	2631.6	2667.0	2694.9	2733.7	2752.3	2735.4	22.5°
25°	2602.0	2724.4	2798.7	2889.8	2962.4	3021.5	3083.1	3157.4	3156.5	3201.3	3232.5	25°
27.5°	2928.6	3084.8	3192.8	3353.2	3415.6	3515.2	3620.7	3735.5	3755.8	3814.0	3843.5	27.5°
30°	3235.9	3429.1	3643.5	3834.3	4050.3	4198.0	4320.4	4401.4	4523.8	4493.4	4476.5	30°
32.5°	3519.4	3776.9	4082.4	4395.5	4738.2	4972.0	5188.0	5288.4	5364.4	5203.2	4989.7	32.5°
35°	3887.4	4195.5	4544.9	4931.4	5366.9	5698.6	5921.4	5952.7	5909.6	5702.8	5349.2	35°
37.5°	4343.2	4666.4	5063.9	5472.4	5934.9	6246.4	6500.4	6546.0	6432.1	6063.2	5691.9	37.5°
40°	4793.0	5172.0	5603.3	6086.9	6566.2	6908.9	7163.8	7177.3	6991.6	6560.3	6125.7	40°
42.5°	5285.1	5699.5	6179.7	6715.6	7211.1	7557.9	7741.9	7800.2	7537.7	6984.9	6567.9	42.5°
45°	5709.6	6205.0	6740.1	7309.8	7828.0	8157.2	8344.5	8326.0	8008.6	7462.6	6973.9	45°
47.5°	6123.2	6668.4	7232.2	7837.3	8352.1	8684.7	8877.1	8860.2	8457.6	7828.9	7291.2	47.5°
50°	6491.1	7082.8	7685.4	8331.9	8845.0	9149.7	9385.2	9310.9	8802.0	8123.4	7495.5	50°
52.5°	6746.9	7406.9	8036.5	8735.3	9263.6	9552.3	9851.9	9613.1	9005.4	8304.0	7605.2	52.5°
55°	6908.9	7629.7	8286.3	9059.4	9578.5	9923.6	10116.9	9777.6	9083.9	8353.8	7643.2	55°
57.5°	7018.6	7752.1	8433.2	9246.8	9862.0	10151.5	10198.8	9783.5	9033.2	8275.3	7605.2	57.5°
60°	7072.6	7788.3	8499.8	9378.4	10061.2	10219.9	10133.8	9646.8	8858.5	8044.9	7360.4	60°
62.5°	7066.7	7742.8	8465.2	9422.3	10100.9	10121.1	9925.3	9413.9	8537.0	7561.3	6953.6	62.5°
65°	6916.5	7576.5	8270.3	9259.4	9916.0	9829.1	9582.7	8976.7	7911.6	6930.0	6622.8	65°
67.5°	6483.5	7116.5	7760.5	8726.0	9395.3	9310.9	8937.9	8117.5	7184.9	6371.3	6205.9	67.5°
70°	5759.4	6296.2	6861.6	7709.9	8412.1	8298.1	7645.7	7146.9	6465.0	5725.6	5668.2	70°
72.5°	4815.0	5221.8	5632.0	6263.3	6746.9	6513.9	6103.7	6077.6	5526.5	4961.8	4973.6	72.5°
75°	3765.9	4071.4	4263.0	4634.4	4955.9	4747.4	4771.9	4917.1	4735.6	4290.8	4146.5	75°
77.5°	2728.6	3021.5	3082.3	3302.5	3528.7	3765.9	4079.9	4421.7	4479.1	4229.2	3706.0	77.5°
80°	1785.9	2108.3	1988.4	2066.9	2385.1	2818.1	3391.2	3954.1	4147.4	3922.9	3278.9	80°
82.5°	1053.3	1504.8	1314.1	1448.3	1650.0	2027.3	2423.1	2847.6	3170.9	2932.0	2738.8	82.5°
85°	800.1	1186.7	1256.7	1419.6	1485.4	1501.5	1570.7	1709.1	1876.2	1938.6	1933.6	85°
87.5°	416.9	922.5	1035.6	957.9	893.8	774.8	604.3	650.7	595.0	813.6	770.6	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1410.3	1410.3	1410.3	1410.3	1410.3	1410.3	1410.3
1492.2	1489.6	1491.3	1492.2	1492.2	1492.2	1493.9
1526.8	1520.0	1517.5	1517.5	1516.7	1514.1	1513.3
1563.9	1552.1	1547.9	1542.8	1538.6	1536.1	1531.8
1630.6	1620.5	1599.4	1587.5	1576.6	1569.0	1562.2
1720.1	1705.7	1685.4	1670.3	1653.4	1648.3	1639.9
1858.5	1845.8	1828.1	1811.2	1801.1	1783.4	1770.7
2074.5	2049.2	2031.5	2009.5	1985.1	1948.8	1931.1
2359.0	2308.3	2272.9	2253.5	2204.5	2198.6	2155.6
2685.6	2670.4	2616.4	2592.7	2545.5	2526.9	2459.4
3174.2	3162.4	3051.9	3040.1	2967.5	2913.5	2808.8
3816.5	3719.5	3594.6	3507.6	3383.6	3244.3	3066.2
4377.8	4179.4	3988.7	3786.1	3614.8	3414.8	3213.1
4735.6	4469.8	4224.2	4016.6	3804.7	3566.7	3307.6
5049.6	4781.2	4513.7	4268.1	4011.5	3706.8	3386.9
5425.2	5158.5	4857.2	4512.0	4182.8	3809.8	3419.0
5810.0	5497.8	5121.3	4698.5	4284.9	3860.4	3413.1
6204.2	5805.0	5304.5	4822.6	4349.9	3868.0	3373.4
6524.0	6019.3	5440.4	4885.9	4363.4	3841.8	3323.6
6750.2	6156.9	5501.1	4907.8	4346.6	3800.5	3256.1
6879.4	6232.0	5516.3	4891.8	4311.9	3741.4	3182.7
6926.6	6254.8	5501.1	4858.9	4280.7	3678.1	3131.2
6921.6	6242.2	5445.4	4782.1	4197.2	3593.7	3067.9
6826.2	6124.8	5331.5	4690.1	4126.3	3554.9	3072.1
6664.2	6050.6	5297.7	4708.6	4163.4	3638.4	3205.5
6590.7	6199.1	5487.6	4894.3	4354.1	3877.3	3480.6
6549.4	6440.5	5759.4	5094.3	4580.3	4166.8	3808.9
6380.6	6509.7	5913.8	5208.3	4782.1	4457.1	4137.2
6108.0	6348.5	5796.5	5186.3	4893.5	4679.9	4255.4
5539.1	5793.2	5274.1	4863.1	4754.2	4683.3	4078.2
4487.5	4619.2	4323.8	4230.9	4271.4	4272.3	3420.7
3309.3	3230.0	3096.6	3103.4	3376.0	3333.8	2438.3
2701.6	2211.3	2022.2	2093.9	2430.7	2249.2	1531.8
2514.2	1972.4	1628.1	1644.9	1835.7	1449.1	922.5
2033.2	1797.7	1441.5	1293.8	1255.9	965.5	626.2
850.7	782.4	582.4	525.0	430.4	263.3	119.8
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)