

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: P158859

Luminaire Tested: **VST-E02-LED-E-U-SLL-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158859
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-E02-LED-E-U-SLL-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4908.9 lumens
Efficiency: N/A
Efficacy: 94.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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

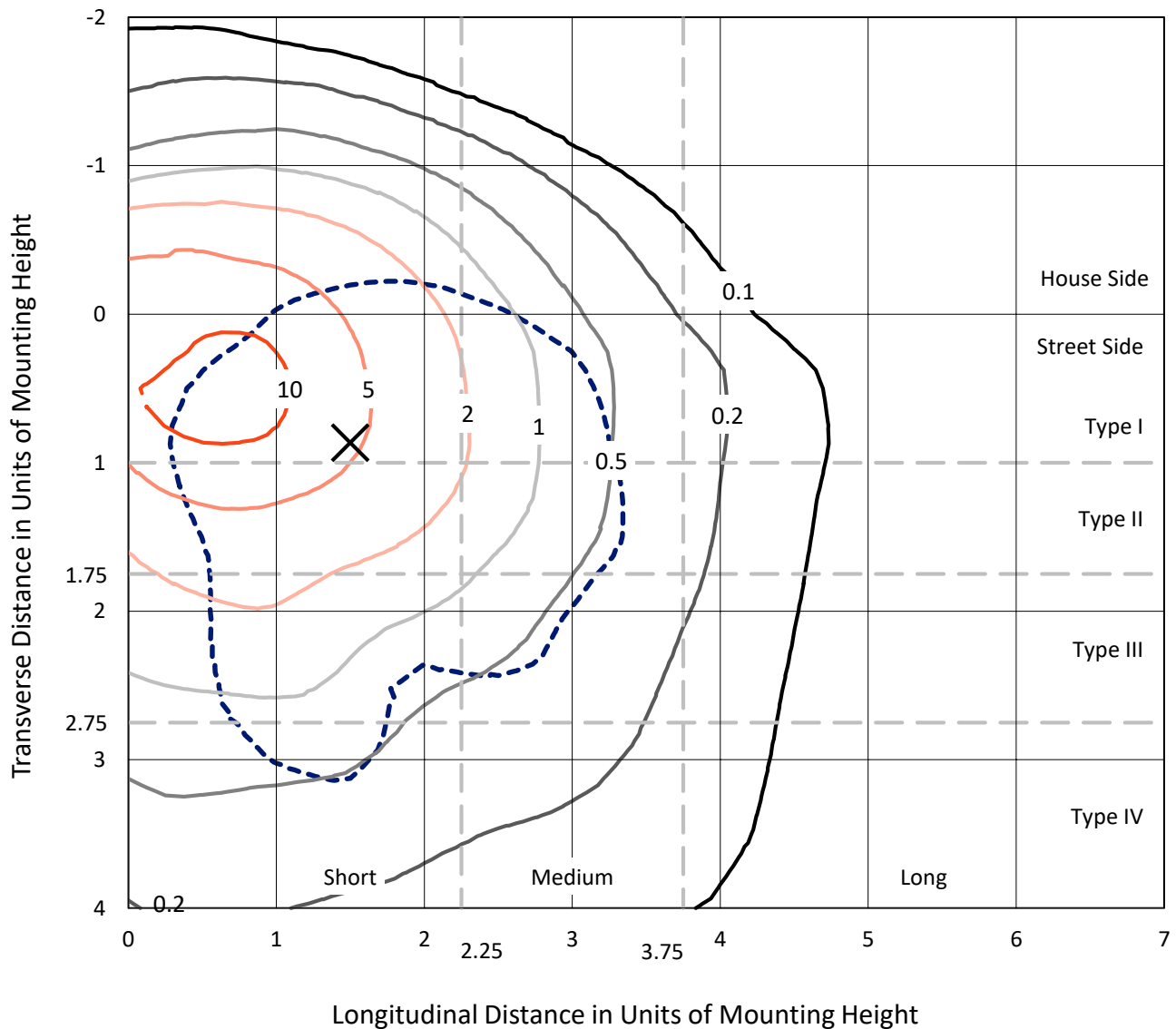


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

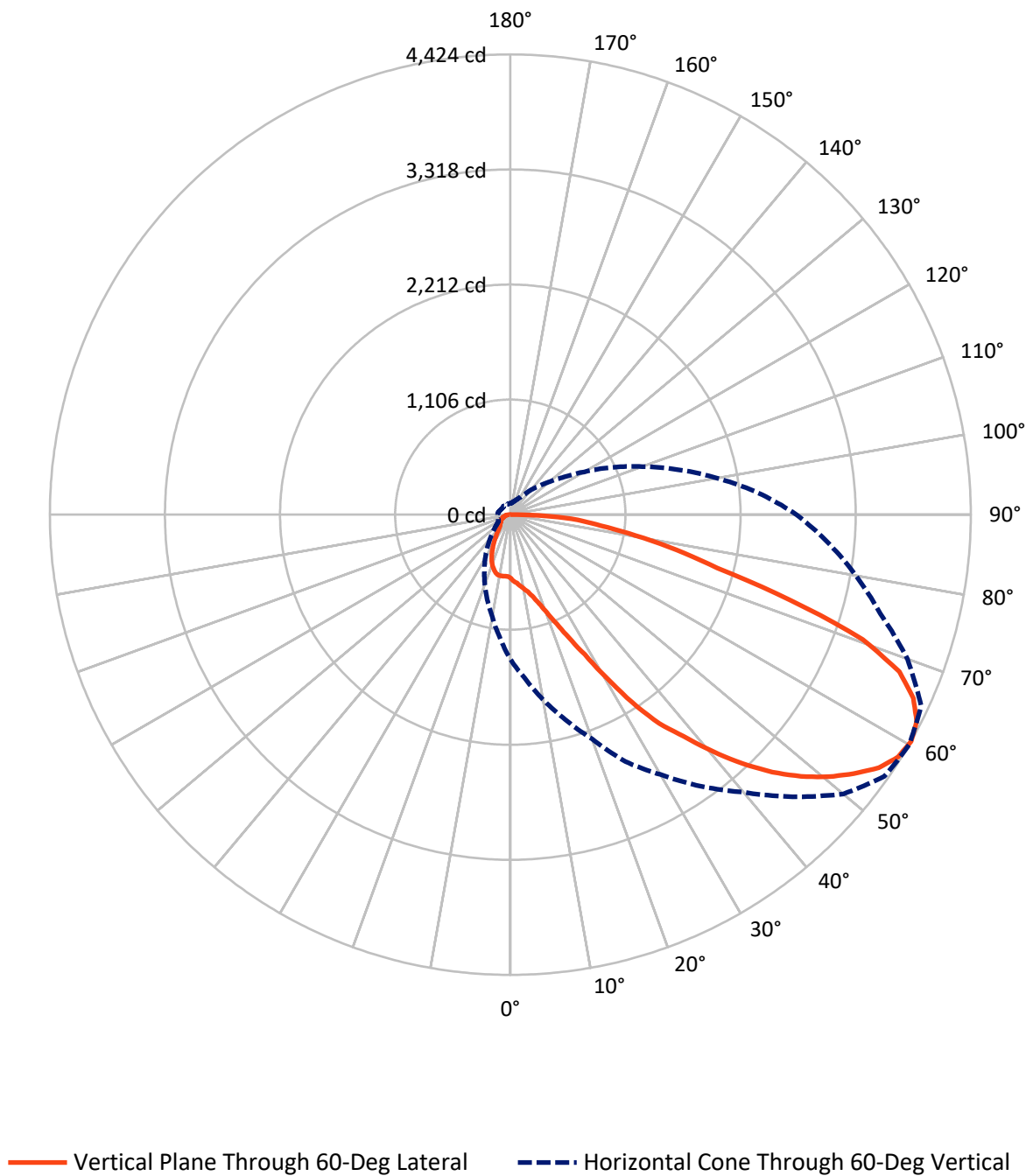


Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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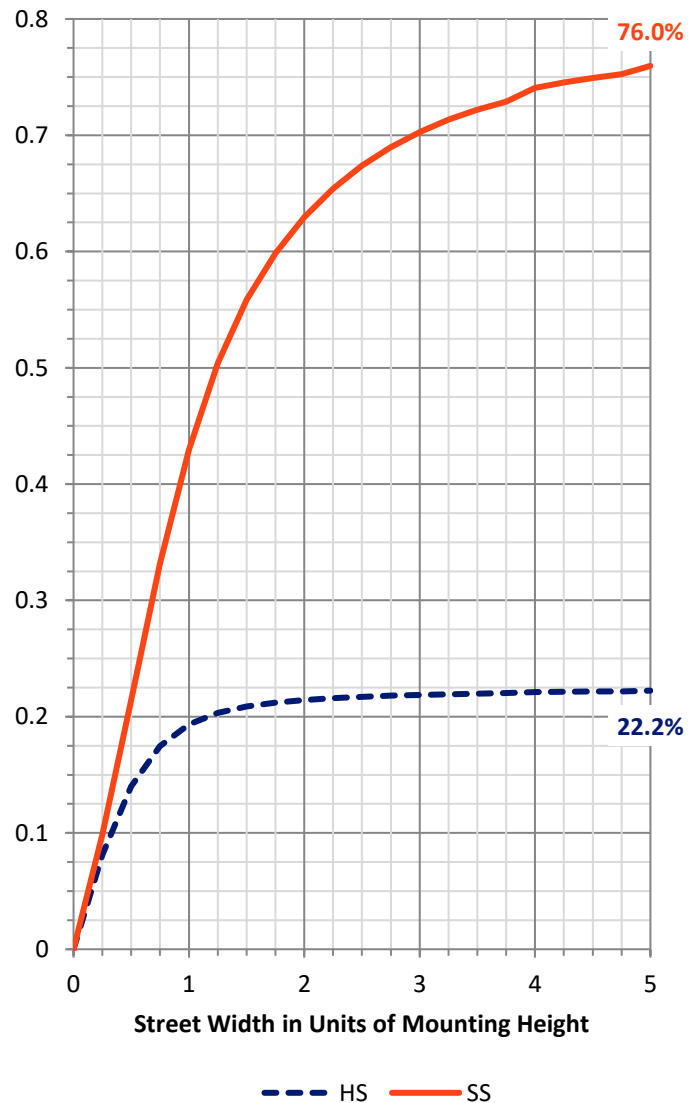
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1105.3	0.0	1105.3
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	3803.5	0.0	3803.5
	% Fixture	77.5	0.0	77.5
Total	Lumens	4908.9	0.0	4908.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	60.2	1.2
10°-20°	194.5	4.0
20°-30°	369.0	7.5
30°-40°	581.1	11.8
40°-50°	811.1	16.5
50°-60°	1003.2	20.4
60°-70°	1039.8	21.2
70°-80°	654.3	13.3
80°-90°	195.6	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°	4908.9	100.0
0°-180°	4908.9	100.0

Coefficient of Utilization



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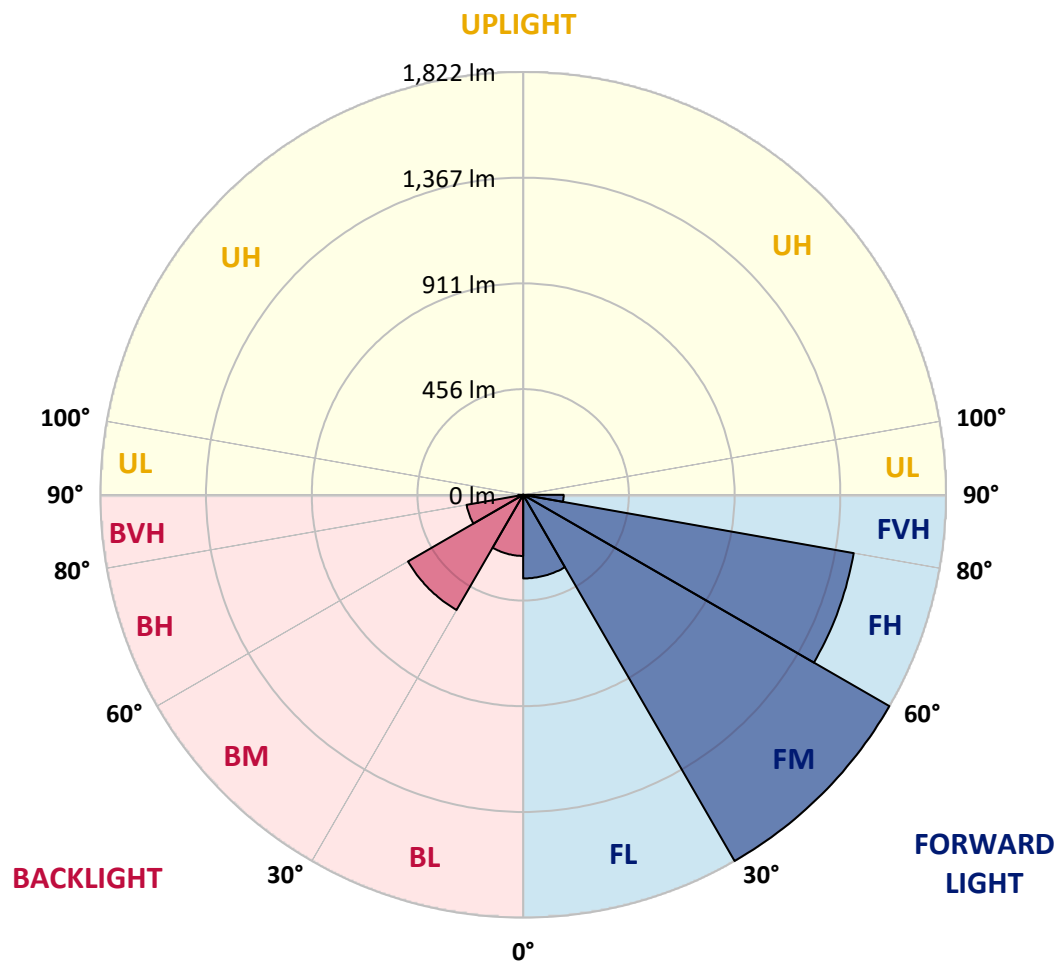
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	360.4	7.3			
FM	(30°-60°)	1822.2	37.1			
FH	(60°-80°)	1446.6	29.5			G1/1800
FVH	(80°-90°)	174.3	3.6			G2/225
BL	(0°-30°)	263.3	5.4	B1/500		
BM	(30°-60°)	573.2	11.7	B1/1000		
BH	(60°-80°)	247.5	5.0	B1/500		G1/500
BVH	(80°-90°)	21.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5
2.5°	646.7	645.9	645.9	645.9	645.5	644.8	645.9	645.5	643.7	642.7	643.7
5°	655.1	655.4	656.5	656.9	656.9	658.0	660.9	661.3	660.9	661.6	663.5
7.5°	663.1	664.9	666.0	667.9	670.0	671.9	677.0	682.1	685.4	688.0	688.7
10°	676.3	679.1	682.4	687.2	692.3	701.5	705.8	710.9	714.2	719.3	720.5
12.5°	709.9	713.5	715.7	723.0	729.6	738.4	744.5	746.0	753.7	758.1	763.2
15°	766.5	772.0	779.6	784.0	791.3	799.0	804.5	811.8	812.9	818.7	822.7
17.5°	835.9	843.6	859.3	869.9	879.4	887.0	898.0	906.4	908.2	914.8	906.4
20°	933.1	951.7	954.2	975.5	983.9	999.2	1021.1	1025.2	1035.7	1025.2	1018.9
22.5°	1064.6	1093.8	1101.8	1122.3	1132.6	1156.0	1162.5	1184.0	1191.4	1183.3	1166.5
25°	1215.8	1261.1	1284.5	1316.0	1321.1	1368.9	1374.1	1399.3	1385.8	1366.4	1366.7
27.5°	1327.3	1404.4	1464.7	1518.4	1556.0	1610.0	1652.0	1663.7	1651.0	1625.8	1617.0
30°	1390.9	1478.2	1564.7	1638.9	1726.6	1809.2	1895.0	1937.8	1945.1	1958.2	1905.2
32.5°	1431.8	1543.9	1646.9	1738.7	1828.5	1934.8	2049.9	2159.9	2252.3	2322.1	2289.2
35°	1466.1	1604.6	1736.5	1847.5	1953.8	2069.6	2185.9	2315.5	2468.6	2558.1	2576.8
37.5°	1480.0	1649.2	1810.6	1953.1	2102.5	2233.0	2348.4	2463.8	2624.6	2784.2	2833.6
40°	1477.4	1671.1	1854.8	2033.8	2216.9	2379.8	2515.0	2651.6	2839.8	3026.5	3106.9
42.5°	1460.3	1674.4	1883.0	2087.6	2296.1	2512.8	2685.6	2843.1	3023.6	3262.9	3376.5
45°	1438.7	1663.0	1888.8	2114.9	2355.0	2605.6	2824.1	3018.8	3230.3	3466.7	3604.1
47.5°	1409.5	1645.1	1881.5	2124.5	2381.3	2665.1	2922.0	3156.2	3388.9	3661.1	3835.3
50°	1377.7	1619.6	1866.5	2117.5	2387.9	2697.7	2977.9	3244.6	3516.4	3810.1	4030.4
52.5°	1355.4	1592.2	1853.0	2103.2	2381.3	2707.6	2998.3	3292.1	3594.6	3898.2	4161.2
55°	1328.0	1555.6	1816.9	2070.0	2357.2	2702.0	2996.2	3308.5	3616.1	3932.2	4232.5
57.5°	1329.8	1538.8	1786.1	2030.2	2307.8	2651.3	2954.9	3292.1	3582.2	3910.3	4235.0
60°	1387.6	1575.0	1802.2	2038.3	2293.3	2619.1	2884.7	3186.1	3482.4	3834.6	4175.8
62.5°	1506.7	1678.4	1884.8	2118.6	2375.5	2683.4	2852.9	3010.0	3273.1	3695.4	4075.0
65°	1648.8	1803.7	1982.7	2205.2	2493.1	2787.9	2835.1	2866.8	2999.8	3424.7	3885.8
67.5°	1790.9	1929.4	2070.0	2254.5	2560.0	2817.8	2762.0	2686.3	2758.0	3110.2	3513.8
70°	1842.1	2025.8	2118.2	2245.0	2509.1	2748.1	2644.0	2453.6	2478.5	2798.5	3093.7
72.5°	1765.3	2027.3	2057.9	2105.1	2283.0	2507.7	2397.7	2152.9	2147.8	2392.3	2630.8
75°	1480.7	1849.4	1849.0	1831.4	1871.6	1999.5	1942.5	1794.9	1857.4	2049.9	2128.5
77.5°	1055.5	1443.1	1461.4	1343.3	1340.5	1398.2	1432.5	1604.2	1830.7	1938.8	1914.0
80°	663.1	973.6	1052.2	906.4	875.3	957.2	1169.5	1419.4	1698.1	1795.3	1711.6
82.5°	399.3	627.3	794.6	712.0	704.8	853.8	1088.3	1185.5	1269.2	1372.6	1232.6
85°	271.1	418.0	543.6	560.0	624.0	778.2	880.1	837.0	839.2	812.2	739.8
87.5°	51.9	114.0	186.3	227.2	252.1	338.7	368.3	333.5	352.2	257.6	281.7
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°	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5
2.5°	641.9	641.9	641.9	640.1	640.4	637.9	636.8	636.8	635.7	635.7	635.3
5°	662.0	659.8	660.9	660.5	660.5	656.9	655.1	655.1	650.3	650.7	649.2
7.5°	692.0	691.6	692.7	690.5	687.6	684.7	681.7	680.3	673.7	669.7	667.1
10°	725.9	725.6	726.7	726.3	721.2	715.7	707.6	701.8	693.8	687.6	681.4
12.5°	763.2	762.8	762.1	758.8	753.4	744.5	734.3	724.4	712.4	704.4	695.2
15°	821.3	820.2	815.8	811.1	805.2	791.7	773.8	759.5	743.5	729.6	714.6
17.5°	907.1	898.0	897.3	886.7	871.0	853.1	836.3	812.5	789.5	768.7	748.2
20°	1025.5	1004.3	998.5	986.4	965.6	947.0	910.4	878.6	847.2	818.7	792.8
22.5°	1154.5	1139.2	1124.9	1105.1	1076.6	1049.6	1003.2	963.4	923.2	886.7	857.8
25°	1334.6	1307.9	1282.3	1250.9	1211.5	1179.3	1126.3	1086.2	1033.6	1000.3	958.7
27.5°	1567.3	1521.7	1478.5	1451.5	1382.1	1335.3	1267.7	1215.8	1152.3	1107.4	1058.0
30°	1870.2	1817.2	1753.3	1659.7	1577.2	1484.4	1400.7	1334.2	1266.7	1203.8	1146.8
32.5°	2245.7	2152.2	2051.0	1902.7	1767.2	1634.9	1523.5	1441.6	1372.6	1294.4	1214.0
35°	2563.2	2466.8	2323.2	2134.7	1967.3	1816.1	1682.8	1571.0	1480.7	1381.7	1275.4
37.5°	2813.8	2703.9	2569.1	2368.9	2192.0	2020.0	1880.0	1737.5	1619.2	1482.9	1348.5
40°	3101.0	2990.7	2842.3	2634.8	2425.5	2238.8	2074.7	1927.6	1782.1	1615.9	1443.1
42.5°	3351.2	3271.6	3121.4	2907.0	2675.0	2467.1	2287.7	2119.3	1929.4	1743.4	1538.8
45°	3612.1	3531.0	3388.5	3164.2	2917.6	2686.0	2471.5	2290.3	2066.0	1844.6	1610.4
47.5°	3842.6	3759.4	3615.4	3392.5	3130.6	2886.5	2650.6	2431.3	2170.9	1916.6	1657.2
50°	4062.6	3960.7	3828.8	3606.7	3326.8	3065.9	2809.9	2528.5	2252.3	1967.0	1688.9
52.5°	4264.6	4134.9	4010.0	3781.3	3478.7	3206.2	2920.5	2611.1	2302.4	2006.8	1710.5
55°	4379.3	4295.6	4146.2	3921.5	3586.9	3302.7	2990.7	2669.2	2352.1	2035.0	1719.7
57.5°	4414.8	4394.3	4269.0	4002.7	3650.5	3355.6	3038.2	2715.2	2385.3	2043.0	1706.9
60°	4386.7	4423.9	4355.2	4059.7	3679.3	3371.3	3061.6	2748.1	2391.2	2017.4	1668.1
62.5°	4296.4	4381.1	4372.4	4078.7	3664.4	3351.7	3059.0	2731.3	2336.3	1937.8	1581.2
65°	4148.1	4254.8	4292.4	4008.1	3580.0	3279.7	2993.9	2625.7	2184.0	1782.1	1435.4
67.5°	3869.0	4030.4	4067.0	3777.2	3359.3	3080.5	2806.6	2406.5	1901.9	1541.4	1207.8
70°	3309.6	3592.0	3641.3	3337.4	2970.2	2725.4	2493.1	2059.1	1583.8	1236.3	926.9
72.5°	2642.2	2819.7	2920.5	2711.2	2437.9	2260.4	2084.3	1579.7	1195.0	912.2	637.9
75°	2065.6	2055.1	2145.3	2006.1	1845.4	1762.4	1630.1	1102.3	800.5	604.3	403.7
77.5°	1766.0	1630.1	1527.5	1429.6	1334.2	1307.9	1181.2	683.9	494.7	362.0	241.5
80°	1468.0	1219.9	1032.5	894.7	860.8	912.6	773.0	403.3	293.0	207.9	151.6
82.5°	1048.9	877.6	714.2	626.9	568.9	651.4	455.9	224.0	158.9	124.6	100.4
85°	679.9	649.9	643.0	614.5	544.0	513.7	346.3	192.9	119.1	77.5	62.5
87.5°	261.6	335.4	386.9	414.7	448.3	399.3	180.5	66.5	65.4	40.2	30.3
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°	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5
2.5°	632.8	631.3	631.0	629.8	629.1	629.1	627.3	594.1	593.7	593.7	593.3
5°	646.3	644.5	642.7	642.2	640.8	640.8	639.0	605.8	605.8	605.8	605.0
7.5°	664.6	660.9	658.7	657.6	655.4	656.5	658.0	624.4	624.7	624.4	625.1
10°	677.7	675.5	673.0	672.2	670.7	671.9	674.0	640.8	641.9	642.2	643.0
12.5°	690.5	686.8	683.6	682.4	681.7	684.7	687.2	655.1	656.2	657.2	657.2
15°	706.2	700.0	695.6	693.1	691.6	694.5	698.2	666.4	666.7	667.9	667.5
17.5°	732.9	723.7	713.5	711.7	706.9	708.0	708.8	673.3	671.9	669.3	664.9
20°	774.2	760.3	746.4	740.5	731.0	727.0	719.0	673.7	664.6	656.9	650.3
22.5°	833.3	812.9	797.9	788.0	768.7	755.2	733.3	671.9	654.7	641.5	631.3
25°	929.0	904.6	881.6	856.7	826.4	799.4	767.2	688.0	661.3	638.6	618.9
27.5°	1022.2	983.5	948.1	910.8	868.0	827.5	782.2	693.1	662.7	633.5	601.3
30°	1092.0	1035.7	982.0	927.6	871.7	819.1	767.9	675.5	639.4	606.5	572.5
32.5°	1134.4	1061.3	991.6	923.9	858.2	799.0	741.7	645.2	605.3	566.6	530.5
35°	1174.6	1084.0	997.4	917.8	842.5	776.7	715.0	609.8	562.3	521.0	475.3
37.5°	1224.2	1107.7	1001.0	906.4	819.5	744.2	676.3	565.2	517.7	466.9	423.8
40°	1283.8	1132.2	997.4	883.7	783.7	701.5	629.5	518.4	465.4	416.1	373.7
42.5°	1340.5	1153.7	987.9	853.4	744.5	656.9	586.7	476.8	423.8	373.4	331.4
45°	1382.5	1172.0	983.2	832.3	714.6	626.6	549.1	443.2	387.2	336.5	293.8
47.5°	1411.7	1183.0	980.9	820.6	693.8	595.1	514.7	409.6	350.7	299.6	257.9
50°	1427.0	1182.6	975.5	807.8	663.1	557.5	479.3	375.5	317.1	267.1	229.1
52.5°	1431.1	1176.0	963.8	784.4	625.8	519.9	441.4	340.1	287.5	239.6	201.3
55°	1421.9	1160.0	939.3	745.3	586.0	480.1	406.6	312.4	258.7	213.4	183.4
57.5°	1396.0	1131.5	893.3	691.6	544.0	443.2	366.8	278.8	227.2	189.2	164.4
60°	1347.7	1071.2	821.3	628.0	490.7	386.9	312.0	234.9	194.0	165.5	145.4
62.5°	1258.6	976.6	720.1	540.4	413.9	313.8	249.2	187.4	156.7	138.1	125.7
65°	1115.0	834.1	602.8	425.6	314.6	228.4	185.2	141.0	118.7	107.4	103.7
67.5°	910.1	644.1	438.4	295.6	213.0	160.0	128.9	103.0	92.5	88.0	86.6
70°	661.6	438.8	283.9	186.7	140.6	111.8	97.6	82.9	77.1	76.0	76.0
72.5°	415.4	266.7	173.9	127.9	106.7	90.6	83.3	73.1	70.9	70.1	69.1
75°	243.7	161.8	123.1	104.9	91.3	81.1	74.9	66.5	65.0	64.7	63.5
77.5°	155.3	116.5	99.4	89.5	82.6	73.4	68.0	59.2	58.8	58.4	58.1
80°	111.4	96.8	86.9	79.3	72.4	64.0	60.7	53.7	53.0	52.6	53.3
82.5°	84.4	80.0	76.0	70.1	60.7	54.4	51.9	47.1	47.5	45.7	45.3
85°	58.1	57.4	57.0	54.4	47.5	42.0	40.2	37.6	39.5	37.6	35.5
87.5°	28.5	28.1	25.9	30.7	28.5	22.7	20.5	22.7	25.2	24.5	22.7
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°	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5
2.5°	591.8	590.4	591.5	590.8	590.8	590.4	591.1	590.0	589.3	590.0	590.4
5°	603.5	601.7	602.1	599.5	600.6	598.1	598.8	596.9	595.1	594.4	594.4
7.5°	623.3	621.4	619.3	618.9	614.9	613.4	610.9	609.4	608.3	605.8	604.3
10°	641.2	638.2	635.7	635.3	631.3	627.7	624.4	621.4	619.6	616.0	614.2
12.5°	655.8	652.9	648.8	646.7	642.7	638.2	636.1	631.7	629.1	625.1	621.8
15°	664.2	659.1	653.2	649.2	643.4	638.6	635.3	632.0	629.5	624.4	619.6
17.5°	660.2	651.8	643.7	636.4	628.4	624.0	619.3	615.2	614.5	608.6	601.3
20°	643.4	633.5	622.9	613.0	602.5	596.2	590.4	584.2	582.4	575.4	565.9
22.5°	622.9	611.6	599.5	587.5	574.0	565.2	556.4	548.8	542.5	532.3	518.8
25°	602.1	585.3	567.7	552.4	536.7	525.7	516.6	508.2	500.9	484.4	470.6
27.5°	574.7	548.4	530.5	512.9	493.9	479.7	469.4	457.8	449.8	430.7	416.1
30°	539.6	513.3	487.7	470.2	451.2	435.8	422.7	405.9	394.2	380.3	366.8
32.5°	495.4	469.1	443.2	423.4	407.7	388.7	372.3	356.2	342.7	329.2	318.6
35°	441.7	416.1	391.6	371.9	354.4	339.4	323.7	309.8	294.5	279.8	273.7
37.5°	385.1	357.7	330.7	313.4	299.6	289.0	274.4	263.0	249.2	240.4	233.1
40°	335.8	306.5	280.9	266.3	255.4	243.3	231.2	222.5	212.6	203.9	198.4
42.5°	294.1	266.7	244.8	232.4	219.2	206.0	196.9	189.6	183.4	176.8	170.2
45°	255.7	229.4	211.1	195.8	184.9	174.2	168.1	164.8	161.1	157.1	152.7
47.5°	223.6	200.9	183.1	168.8	157.4	150.2	147.2	146.2	144.7	141.4	139.2
50°	199.1	180.5	162.2	149.4	139.9	136.3	133.0	131.9	130.1	128.9	127.5
52.5°	178.7	158.9	143.6	131.9	126.1	124.6	123.1	121.7	121.3	120.5	119.8
55°	161.8	144.7	130.4	121.7	118.7	117.7	117.3	115.8	115.4	115.4	114.4
57.5°	146.9	132.2	119.5	114.0	112.1	111.1	110.3	109.6	109.6	110.3	110.0
60°	131.5	119.1	111.4	108.5	107.4	105.6	103.7	103.0	103.4	105.2	105.2
62.5°	116.5	107.4	102.7	101.6	100.4	99.0	96.8	96.1	96.8	99.0	100.1
65°	100.1	96.1	94.6	93.9	93.2	92.0	90.6	89.9	90.2	91.3	92.8
67.5°	85.1	84.8	84.8	85.1	84.8	84.4	83.6	82.6	82.2	82.2	82.9
70°	76.0	76.0	77.1	77.1	76.7	76.7	75.6	74.5	73.8	73.1	73.4
72.5°	69.1	69.1	69.4	69.8	69.4	69.4	68.0	67.2	65.4	65.0	64.3
75°	63.2	62.5	62.5	62.1	61.7	62.1	60.7	58.8	58.1	57.7	57.0
77.5°	57.4	55.9	55.1	54.4	54.8	54.4	53.3	52.3	51.1	50.8	50.4
80°	50.8	48.6	47.5	45.7	46.7	47.1	46.4	45.3	44.9	44.6	44.2
82.5°	42.0	39.8	38.3	37.3	36.5	37.3	38.3	40.9	40.2	39.8	39.1
85°	32.9	29.2	27.4	27.8	25.9	26.3	29.6	31.1	31.1	31.8	31.1
87.5°	18.7	17.9	13.5	12.4	13.1	15.7	17.5	19.4	19.4	18.2	20.5
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°	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5
2.5°	590.4	591.1	591.5	592.9	593.7	594.1	594.4	595.1	595.5	595.1	596.9
5°	593.3	593.3	592.6	593.7	594.1	594.1	593.3	594.1	594.1	594.1	595.9
7.5°	601.0	598.8	597.7	596.2	595.1	593.7	591.8	591.8	591.5	591.8	592.9
10°	609.0	605.8	601.7	598.1	594.8	592.2	588.9	587.8	587.5	587.1	590.0
12.5°	615.2	609.4	603.2	596.9	590.4	586.0	580.5	577.3	576.9	576.9	580.5
15°	610.9	601.3	589.3	578.3	572.5	566.3	560.0	556.0	555.7	556.4	558.6
17.5°	588.9	573.6	563.0	552.4	544.7	539.6	535.6	534.8	536.3	534.8	537.8
20°	551.6	535.2	527.9	519.5	516.6	512.9	507.1	502.0	502.0	495.4	497.2
22.5°	503.5	494.3	484.8	478.3	476.0	469.8	463.6	456.7	455.9	447.9	446.8
25°	453.0	443.9	436.2	434.8	428.2	419.8	413.9	405.9	404.0	396.0	394.9
27.5°	401.5	394.2	386.5	382.1	378.5	369.4	364.3	354.7	351.1	342.3	341.2
30°	352.6	347.5	338.3	334.7	327.7	317.1	306.2	300.3	297.4	288.2	285.4
32.5°	306.5	298.5	291.5	287.2	278.4	266.3	256.4	248.0	242.6	231.6	228.7
35°	262.7	254.6	251.3	240.0	232.4	224.3	210.8	205.7	195.8	187.4	184.5
37.5°	224.0	216.3	211.9	202.4	194.7	186.7	178.7	172.1	167.3	165.5	165.5
40°	190.7	186.7	181.2	174.2	169.1	163.3	158.9	156.7	156.4	157.1	158.9
42.5°	167.0	162.6	158.9	155.3	151.6	150.9	149.8	151.3	153.1	154.9	156.7
45°	149.0	145.4	143.2	141.8	141.4	142.5	144.7	146.9	150.2	152.3	153.8
47.5°	136.3	133.3	132.6	132.2	134.1	137.3	140.3	143.6	146.2	148.3	149.8
50°	125.3	122.8	122.4	122.0	124.6	127.5	130.1	134.5	136.3	137.8	138.8
52.5°	117.7	115.4	114.4	114.7	117.3	119.8	123.5	126.8	129.4	130.4	131.5
55°	111.4	110.7	108.1	109.3	111.8	115.1	118.7	122.4	124.9	126.8	128.6
57.5°	106.7	104.9	103.0	104.9	107.4	110.7	115.1	118.4	121.7	124.2	126.1
60°	101.6	100.1	98.6	100.4	103.0	106.3	109.6	114.0	118.0	120.5	122.4
62.5°	97.2	96.1	94.6	95.0	96.1	98.3	100.1	104.1	107.8	111.1	113.3
65°	91.0	90.6	88.4	88.8	89.5	91.7	93.2	96.8	100.4	103.4	105.2
67.5°	81.8	81.1	81.1	82.2	82.6	83.6	84.8	88.4	91.3	93.5	95.7
70°	72.7	72.4	72.4	73.1	72.7	73.8	75.2	78.5	82.2	84.4	86.6
72.5°	64.0	64.0	63.5	64.3	64.3	64.7	66.5	69.4	72.7	74.5	76.0
75°	56.3	55.9	55.9	55.9	56.3	56.3	58.1	60.7	64.0	65.0	67.2
77.5°	49.3	49.3	49.3	49.3	49.7	49.3	50.4	52.3	53.3	55.1	55.1
80°	43.5	43.1	43.5	43.9	43.9	43.5	43.5	43.9	44.2	44.2	44.2
82.5°	38.3	37.3	38.0	39.8	39.8	39.8	39.5	36.9	35.1	35.1	35.8
85°	30.7	30.7	31.1	33.6	34.0	32.5	34.0	30.3	26.6	25.6	26.3
87.5°	19.0	15.0	18.2	20.8	20.8	19.7	21.9	20.5	17.2	13.9	13.1
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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REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	610.5	0°
2.5°	598.4	598.8	601.0	602.1	602.1	603.5	604.3	606.5	606.1	606.1	606.8	2.5°
5°	597.7	598.8	601.0	602.5	603.2	605.0	606.5	609.0	608.6	609.4	609.8	5°
7.5°	595.1	598.1	600.2	603.2	605.8	607.2	609.0	611.2	610.5	610.9	610.5	7.5°
10°	592.9	595.9	600.2	604.3	607.9	610.1	611.2	613.8	613.4	614.2	614.2	10°
12.5°	584.2	589.3	594.8	601.0	606.5	612.3	616.0	621.4	624.0	627.3	631.0	12.5°
15°	561.9	567.7	576.5	583.4	594.1	602.1	612.7	623.3	632.8	641.9	652.5	15°
17.5°	540.0	542.5	549.5	559.0	568.4	580.5	593.3	612.3	629.5	648.1	668.6	17.5°
20°	499.4	503.8	508.6	519.9	531.2	548.4	564.1	588.9	614.2	643.4	674.8	20°
22.5°	449.3	453.8	458.9	471.7	485.5	503.1	522.1	549.8	583.4	621.4	663.5	22.5°
25°	395.3	397.9	401.9	414.7	423.1	446.1	469.1	497.9	534.5	583.4	632.4	25°
27.5°	335.8	340.5	343.8	349.6	369.0	388.7	412.9	443.9	488.1	538.1	597.4	27.5°
30°	278.8	282.8	280.9	293.3	306.2	327.0	352.9	387.2	429.7	489.2	557.5	30°
32.5°	222.8	225.8	224.7	233.5	246.2	267.1	291.5	328.8	373.7	437.3	511.5	32.5°
35°	183.8	184.5	188.5	192.5	203.5	220.3	241.1	273.7	319.7	378.1	456.7	35°
37.5°	165.5	167.0	169.5	175.0	183.1	195.1	212.3	237.5	276.9	328.4	398.6	37.5°
40°	160.0	161.1	162.6	166.2	173.9	184.5	199.9	221.0	249.9	293.3	350.3	40°
42.5°	157.4	157.4	157.4	159.7	165.5	176.8	194.3	215.2	240.4	273.3	319.3	42.5°
45°	153.8	153.8	153.4	154.6	158.6	169.9	188.9	212.3	239.3	270.7	310.6	45°
47.5°	149.8	149.4	148.3	148.3	150.9	162.2	181.9	207.1	236.8	272.9	315.7	47.5°
50°	138.8	138.8	138.8	139.9	142.1	152.3	173.5	200.2	234.2	274.4	323.7	50°
52.5°	132.6	133.0	134.1	134.1	136.3	146.9	169.1	198.7	235.6	279.8	333.9	52.5°
55°	129.7	130.8	131.9	131.9	133.7	144.7	167.7	199.9	241.1	291.2	351.5	55°
57.5°	127.1	128.2	128.9	128.9	130.4	139.9	163.7	198.0	244.4	302.2	373.0	57.5°
60°	122.4	123.1	123.5	123.5	123.8	131.9	154.6	189.2	237.1	301.4	384.7	60°
62.5°	113.6	115.1	115.4	115.8	115.8	123.5	142.9	175.0	221.4	290.5	381.4	62.5°
65°	107.0	107.8	108.9	109.6	111.1	116.2	131.5	157.8	200.9	268.5	363.1	65°
67.5°	96.8	97.9	99.0	100.4	101.9	105.2	117.3	138.5	173.2	231.2	322.2	67.5°
70°	87.7	88.0	89.2	91.0	91.3	93.2	101.9	116.5	141.8	185.6	259.4	70°
72.5°	76.4	77.1	78.5	80.8	80.8	82.2	87.3	95.0	111.1	141.8	191.5	72.5°
75°	66.5	67.2	68.3	68.3	66.5	66.8	70.5	76.0	88.0	106.7	139.6	75°
77.5°	55.1	56.6	57.7	55.6	54.8	55.9	57.7	61.7	70.5	84.8	104.9	77.5°
80°	45.7	46.4	46.7	47.1	46.4	47.5	49.0	51.5	57.4	68.3	82.9	80°
82.5°	36.5	37.3	38.3	39.8	39.8	43.9	44.2	44.2	47.5	54.4	65.0	82.5°
85°	27.1	28.5	29.9	31.8	32.2	34.3	33.2	32.9	34.0	40.6	44.9	85°
87.5°	13.9	15.0	15.7	17.2	15.4	16.1	16.1	15.0	13.1	16.4	18.2	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°
610.5	610.5	610.5	610.5	610.5	610.5	610.5
607.6	606.8	607.6	607.6	608.6	607.9	646.7
610.5	609.8	610.5	611.2	612.3	612.3	655.1
610.9	610.9	610.1	611.9	613.4	614.9	663.1
615.2	615.2	616.0	616.3	619.6	623.3	676.3
633.1	635.0	638.2	639.4	645.2	649.2	709.9
660.5	670.7	677.3	679.6	684.7	692.3	766.5
688.3	705.5	723.4	734.3	740.9	750.1	835.9
709.1	741.3	772.0	799.4	815.1	833.0	933.1
710.9	762.1	814.0	864.8	906.8	940.0	1064.6
693.4	760.6	832.3	910.1	982.4	1042.3	1215.8
671.1	753.7	845.0	944.4	1039.4	1127.8	1327.3
643.0	742.0	847.2	959.0	1070.5	1176.8	1390.9
600.2	707.3	820.9	944.4	1073.8	1203.1	1431.8
545.5	654.7	771.2	911.9	1058.4	1213.7	1466.1
489.5	597.4	722.6	868.4	1033.9	1211.8	1480.0
430.4	537.4	665.6	822.0	1000.7	1195.0	1477.4
390.2	487.7	613.4	774.9	963.8	1172.8	1460.3
366.8	452.3	572.1	731.8	930.2	1146.1	1438.7
366.4	441.7	550.2	701.1	896.2	1116.5	1409.5
379.2	448.3	547.6	688.0	877.6	1094.9	1377.7
394.2	466.6	561.2	692.7	877.2	1085.4	1355.4
418.0	497.6	590.8	713.2	886.7	1084.0	1328.0
448.3	539.6	644.1	763.6	923.6	1112.8	1329.8
479.3	588.9	713.9	849.8	996.3	1180.0	1387.6
490.7	626.9	784.7	951.0	1105.1	1280.9	1506.7
480.8	635.7	827.9	1029.5	1211.1	1398.9	1648.8
444.2	600.2	810.3	1051.8	1272.1	1482.5	1790.9
365.7	512.2	730.7	1001.8	1267.4	1499.7	1842.1
268.1	397.1	594.1	851.2	1126.7	1392.3	1765.3
193.6	280.9	428.9	641.2	890.7	1121.2	1480.7
138.8	194.7	278.4	421.3	606.8	780.7	1055.5
99.7	132.2	173.5	252.8	369.7	479.3	663.1
73.4	90.6	114.0	157.1	217.7	279.1	399.3
50.0	53.3	68.7	92.8	142.9	205.3	271.1
19.0	21.5	25.2	38.0	64.0	73.4	51.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)