

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: P159098

Luminaire Tested: **VST-E04-LED-E-U-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159098
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-E04-LED-E-U-SLR-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9072.2 lumens
Efficiency: N/A
Efficacy: 93.3 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: 28.75 FT

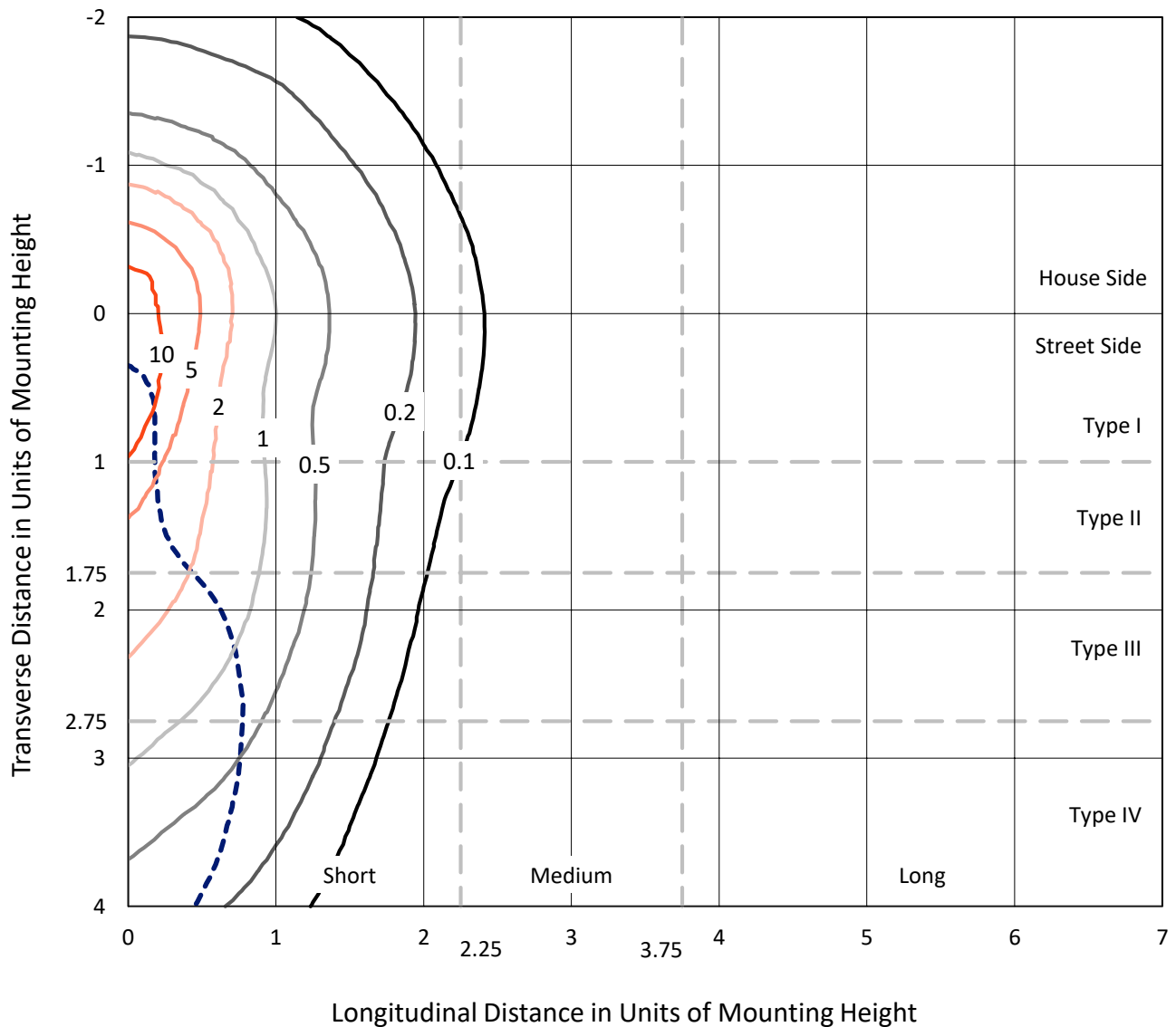




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Iso-Footcandle Lines of Horizontal Illumination

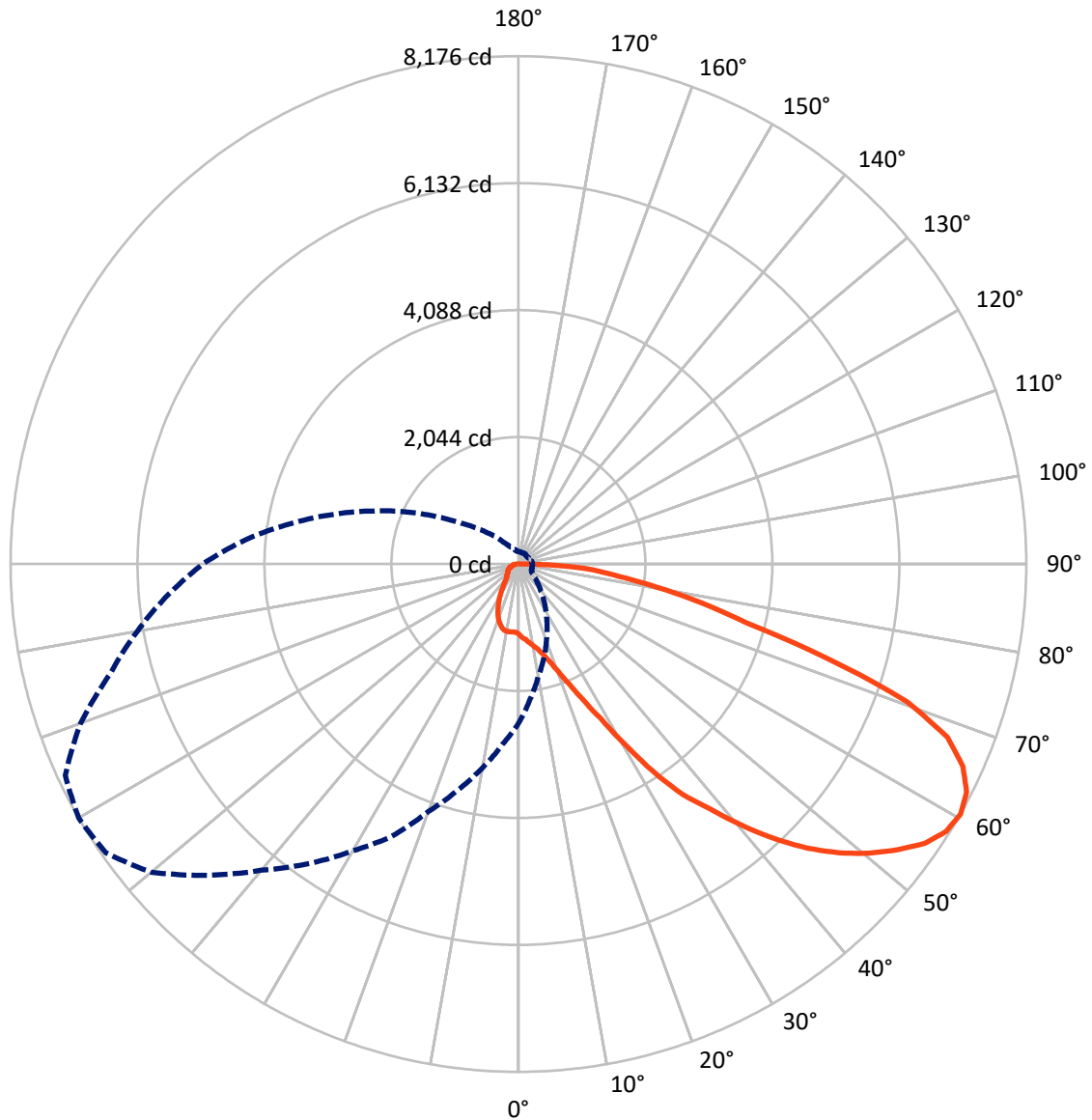
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17 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	2042.8	0.0	2042.8
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	7029.4	0.0	7029.4
	% Fixture	77.5	0.0	77.5
Total	Lumens	9072.2	0.0	9072.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	111.3	1.2
10°-20°	359.4	4.0
20°-30°	682.0	7.5
30°-40°	1074.0	11.8
40°-50°	1499.1	16.5
50°-60°	1854.0	20.4
60°-70°	1921.7	21.2
70°-80°	1209.2	13.3
80°-90°	361.5	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°	9072.2	100.0
0°-180°	9072.2	100.0



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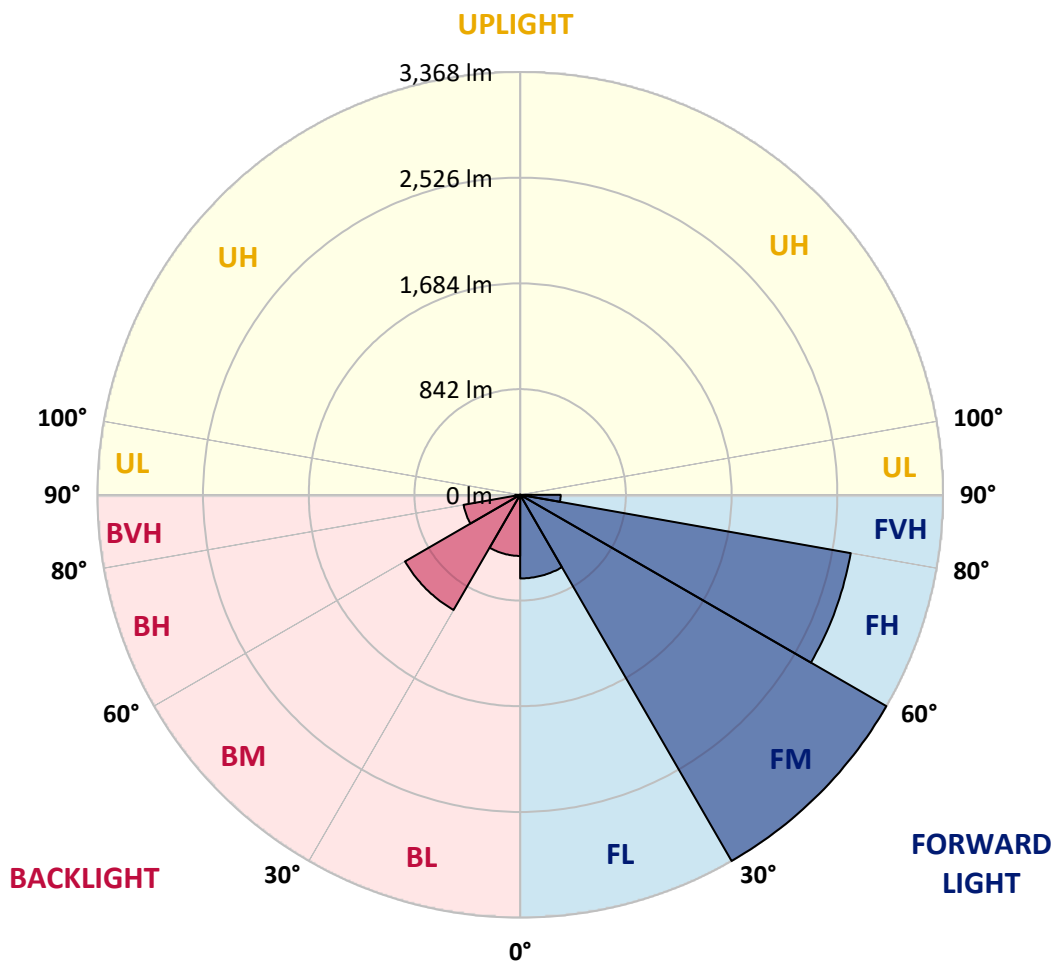
CATALOG NUMBER: VST-E04-LED-E-U-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	666.0	7.3			
FM	(30°-60°)	3367.7	37.1			
FH	(60°-80°)	2673.5	29.5			G2/5000
FVH	(80°-90°)	322.1	3.6			G3/500
BL	(0°-30°)	486.7	5.4	B1/500		
BM	(30°-60°)	1059.3	11.7	B2/2500		
BH	(60°-80°)	457.5	5.0	B1/500		G1/500
BVH	(80°-90°)	39.3	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°	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1195.1	1123.5	1124.9	1122.8	1122.8	1121.5	1122.8	1121.5	1120.1	1120.1	1120.8
5°	1210.6	1131.6	1131.6	1129.6	1128.2	1126.9	1128.2	1126.9	1126.2	1124.9	1125.5
7.5°	1225.5	1136.3	1133.6	1130.9	1127.6	1128.9	1128.9	1128.2	1128.9	1128.2	1129.6
10°	1249.8	1151.9	1145.1	1139.1	1138.4	1137.0	1137.0	1135.0	1135.0	1133.6	1134.3
12.5°	1311.9	1199.8	1192.4	1181.6	1179.6	1173.5	1170.1	1166.1	1159.3	1153.2	1148.5
15°	1416.6	1279.5	1265.3	1255.9	1251.8	1239.7	1220.7	1205.9	1186.3	1169.4	1151.9
17.5°	1544.8	1386.2	1369.3	1357.1	1336.9	1303.8	1272.1	1235.6	1197.8	1163.4	1131.6
20°	1724.4	1539.4	1506.4	1477.3	1426.7	1370.0	1310.5	1247.1	1189.0	1135.0	1088.4
22.5°	1967.5	1737.3	1675.8	1598.2	1504.3	1408.5	1313.9	1226.2	1148.5	1078.3	1016.2
25°	2247.0	1926.3	1815.6	1681.9	1538.1	1405.8	1281.5	1168.8	1078.3	987.8	920.3
27.5°	2453.0	2084.3	1920.9	1745.4	1561.7	1392.9	1240.3	1103.9	994.6	902.1	820.4
30°	2570.5	2174.8	1978.3	1772.4	1565.8	1371.3	1188.3	1030.3	904.1	794.0	715.7
32.5°	2646.1	2223.4	1984.4	1745.4	1517.2	1307.2	1109.3	945.3	808.2	690.7	607.7
35°	2709.5	2243.0	1956.0	1685.3	1425.3	1209.9	1008.1	844.0	698.8	590.8	505.7
37.5°	2735.2	2239.6	1910.8	1604.9	1335.5	1103.9	904.8	736.6	607.0	511.8	438.9
40°	2730.5	2208.6	1849.4	1519.2	1230.2	993.2	795.4	647.5	542.2	461.8	408.5
42.5°	2698.7	2167.4	1781.2	1432.1	1133.6	901.4	721.1	590.1	505.0	444.3	397.7
45°	2658.9	2118.1	1719.0	1352.4	1057.4	835.9	677.9	573.9	500.3	442.3	392.3
47.5°	2604.9	2063.4	1656.2	1295.7	1016.8	816.3	677.2	583.4	504.4	437.5	382.8
50°	2546.2	2023.6	1621.8	1271.4	1012.1	828.5	700.9	598.2	507.1	432.8	370.0
52.5°	2505.0	2006.0	1621.1	1280.2	1037.1	862.2	728.5	617.1	517.2	435.5	367.3
55°	2454.3	2003.3	1638.7	1318.0	1091.8	919.6	772.4	649.5	538.1	445.6	369.3
57.5°	2457.7	2056.6	1706.9	1411.2	1190.4	997.3	828.5	689.4	558.4	451.7	366.0
60°	2564.4	2180.9	1841.3	1570.5	1319.3	1088.4	885.9	711.0	557.0	438.2	349.7
62.5°	2784.5	2367.2	2042.5	1757.5	1450.3	1158.6	906.8	704.9	536.8	409.2	323.4
65°	3047.1	2585.3	2238.3	1902.7	1530.0	1174.8	888.6	671.1	496.3	371.4	291.7
67.5°	3309.8	2739.9	2351.0	1943.9	1497.6	1109.3	821.0	595.5	427.4	320.0	255.9
70°	3404.3	2771.7	2342.2	1851.4	1350.4	946.6	675.9	479.4	343.0	262.0	215.4
72.5°	3262.5	2573.2	2082.3	1573.2	1097.9	733.9	495.6	353.8	262.0	205.3	175.6
75°	2736.6	2072.2	1646.1	1185.0	792.7	519.2	357.9	257.9	197.2	162.7	140.4
77.5°	1950.6	1442.9	1121.5	778.5	514.5	359.9	256.6	193.8	156.6	130.3	114.1
80°	1225.5	885.9	683.3	467.2	320.7	244.4	184.3	153.3	126.3	106.0	95.2
82.5°	738.0	515.8	402.4	290.3	210.7	167.4	135.7	120.2	100.6	87.8	81.7
85°	501.0	379.5	264.0	171.5	126.9	98.6	92.5	83.0	74.9	62.8	60.8
87.5°	95.9	135.7	118.2	70.2	46.6	39.8	35.1	33.8	30.4	24.3	27.7
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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CATALOG NUMBER: VST-E04-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1116.8	1115.4	1112.7	1112.7	1110.7	1106.6	1106.0	1103.3	1099.9	1100.6	1099.9
5°	1120.8	1118.1	1114.7	1113.4	1110.7	1106.6	1104.6	1101.2	1097.9	1097.9	1097.9
7.5°	1125.5	1122.2	1119.5	1114.7	1109.3	1105.3	1099.9	1095.8	1093.8	1093.1	1093.8
10°	1129.6	1127.6	1123.5	1116.8	1109.3	1101.2	1095.8	1090.4	1085.0	1085.7	1086.4
12.5°	1138.4	1131.6	1120.8	1110.7	1099.2	1089.1	1079.6	1072.9	1066.1	1066.1	1066.8
15°	1132.3	1112.7	1097.9	1078.3	1065.5	1049.2	1038.4	1032.4	1028.3	1027.0	1027.6
17.5°	1096.5	1072.9	1050.6	1033.0	1015.5	1002.7	997.9	993.9	988.5	991.2	988.5
20°	1042.5	1013.5	981.7	960.8	939.9	931.1	923.0	918.9	915.6	927.7	927.7
22.5°	964.9	929.7	897.3	871.7	848.0	838.6	830.5	825.8	827.8	842.6	844.0
25°	866.9	824.4	781.9	766.3	742.7	735.3	730.6	729.9	731.9	746.8	750.1
27.5°	763.0	718.4	681.9	646.2	635.4	629.3	620.5	630.6	632.7	648.9	655.6
30°	652.2	604.3	565.8	542.2	519.2	522.6	515.2	527.3	532.7	549.6	555.0
32.5°	538.8	493.6	455.1	431.4	415.2	417.3	411.9	422.7	428.1	448.3	458.5
35°	445.6	407.1	376.1	355.8	348.4	341.0	339.6	341.0	346.4	361.9	380.1
37.5°	392.3	360.6	338.3	323.4	313.3	308.6	305.9	305.9	305.9	309.2	318.0
40°	369.3	341.0	321.4	307.2	300.5	297.8	295.7	293.7	290.3	289.0	289.7
42.5°	359.2	326.8	305.9	295.1	291.0	291.0	291.0	289.7	286.3	282.9	279.5
45°	349.1	314.0	293.0	285.6	283.6	284.3	284.3	284.3	281.6	277.5	271.4
47.5°	336.2	299.8	278.9	274.1	274.1	276.2	276.8	276.8	274.1	270.1	265.4
50°	320.7	281.6	262.6	258.6	256.6	256.6	256.6	256.6	254.5	251.8	248.5
52.5°	312.6	271.4	251.8	247.8	247.8	245.8	245.1	243.1	241.0	239.0	234.3
55°	309.9	267.4	247.1	243.7	243.7	241.7	239.7	237.7	234.3	230.9	226.2
57.5°	302.5	258.6	241.0	238.3	238.3	237.0	235.0	232.9	229.6	224.8	218.8
60°	285.6	243.7	228.9	228.2	228.2	227.5	226.2	226.2	222.8	218.1	210.7
62.5°	264.0	228.2	214.0	214.0	213.4	212.7	210.0	209.3	205.3	199.2	192.4
65°	243.1	214.7	205.3	202.6	201.2	199.2	197.8	194.5	191.1	185.7	178.9
67.5°	216.7	194.5	188.4	185.7	183.0	181.0	178.9	176.9	172.8	168.8	163.4
70°	188.4	172.2	168.8	168.1	164.7	162.7	162.0	160.0	156.0	151.9	145.2
72.5°	161.4	151.9	149.2	149.2	145.2	142.5	141.1	140.4	137.7	134.4	128.3
75°	130.3	123.6	122.9	126.3	126.3	124.2	122.9	124.2	120.2	118.2	112.1
77.5°	106.7	103.3	101.3	102.6	106.7	104.7	102.0	102.0	102.0	98.6	96.6
80°	90.5	87.8	85.7	87.1	86.4	85.7	84.4	81.7	81.7	81.7	81.0
82.5°	81.7	81.0	73.6	73.6	70.9	68.9	67.5	66.2	64.8	64.8	68.2
85°	61.4	63.5	59.4	58.7	55.4	52.7	50.0	48.6	47.3	49.3	56.0
87.5°	29.7	29.7	28.4	31.7	29.0	27.7	25.7	24.3	25.7	31.7	37.8
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°	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1098.5	1097.9	1097.2	1095.8	1093.1	1092.5	1091.1	1091.1	1090.4	1089.1	1090.4
5°	1096.5	1097.9	1097.9	1097.2	1095.2	1096.5	1096.5	1098.5	1098.5	1099.9	1103.3
7.5°	1093.8	1097.2	1099.9	1101.9	1104.6	1106.6	1110.7	1116.8	1119.5	1124.2	1126.2
10°	1088.4	1094.5	1099.2	1105.3	1112.0	1119.5	1125.5	1135.0	1138.4	1145.1	1148.5
12.5°	1072.9	1083.0	1091.1	1103.3	1114.7	1126.2	1137.0	1149.2	1155.3	1162.7	1167.4
15°	1035.1	1046.5	1058.0	1068.8	1089.1	1111.4	1128.9	1145.1	1153.9	1163.4	1168.1
17.5°	989.8	997.3	1006.7	1020.9	1040.5	1060.1	1088.4	1111.4	1124.9	1135.7	1137.0
20°	937.2	948.0	954.7	960.1	975.7	989.2	1019.5	1045.9	1063.4	1076.3	1079.6
22.5°	856.8	868.3	879.8	883.8	896.0	913.5	930.4	958.8	983.8	1002.7	1014.1
25°	765.0	775.8	791.3	803.5	806.2	820.4	837.2	869.6	895.3	925.7	939.2
27.5°	673.2	682.6	699.5	706.3	714.4	728.5	742.0	769.0	796.1	831.2	846.0
30°	565.8	586.1	605.6	618.5	625.2	642.1	651.6	677.9	702.9	728.5	750.1
32.5°	474.0	492.2	514.5	530.7	538.8	551.6	566.5	588.8	608.3	633.3	658.3
35°	389.6	414.6	429.4	443.6	464.5	470.6	485.5	505.7	517.2	544.2	572.6
37.5°	330.2	345.0	359.9	374.1	391.6	399.7	413.9	430.8	444.3	460.5	486.1
40°	293.7	301.8	312.6	322.1	334.9	345.0	352.5	366.6	376.8	393.0	411.2
42.5°	276.8	278.9	280.2	287.0	293.7	300.5	308.6	314.6	326.8	338.9	350.4
45°	267.4	263.3	261.3	262.0	264.7	268.7	275.5	282.2	290.3	297.8	304.5
47.5°	259.3	253.9	247.8	244.4	245.1	246.4	251.8	257.2	261.3	267.4	270.1
50°	240.4	235.6	230.2	225.5	226.2	226.9	231.6	235.6	238.3	240.4	243.7
52.5°	228.2	221.5	216.7	212.0	211.3	213.4	217.4	221.5	222.8	224.2	224.8
55°	219.4	212.7	206.6	201.9	199.9	204.6	205.9	211.3	213.4	213.4	214.0
57.5°	212.7	204.6	198.5	193.8	190.4	193.8	197.2	203.2	203.9	202.6	202.6
60°	202.6	196.5	190.4	185.7	182.3	185.0	187.7	194.5	194.5	191.1	190.4
62.5°	185.0	181.6	177.6	175.6	174.9	177.6	179.6	185.0	183.0	178.9	177.6
65°	172.2	169.5	165.4	164.1	163.4	167.4	168.1	171.5	168.8	166.8	166.1
67.5°	156.6	154.6	152.6	151.9	149.9	149.9	151.2	153.3	151.9	151.9	152.6
70°	139.1	136.4	134.4	135.0	133.7	133.7	134.4	135.7	135.0	136.4	137.7
72.5°	122.9	119.5	118.8	118.8	117.5	118.2	118.2	118.8	120.2	120.9	124.2
75°	107.4	104.0	104.0	103.3	103.3	103.3	104.0	105.3	106.7	107.4	108.7
77.5°	93.2	91.2	91.8	91.2	91.2	91.2	91.2	93.2	93.9	94.5	96.6
80°	80.3	80.3	81.0	81.0	80.3	79.7	80.3	81.7	82.4	83.0	83.7
82.5°	72.9	73.6	73.6	73.6	70.2	68.9	70.9	72.2	73.6	74.3	75.6
85°	62.8	60.1	62.8	62.1	57.4	56.7	56.7	57.4	58.7	57.4	57.4
87.5°	40.5	36.5	38.5	38.5	33.8	27.7	35.1	37.8	33.8	35.8	35.8
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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CATALOG NUMBER: VST-E04-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1092.5	1091.1	1091.8	1091.8	1093.1	1091.1	1093.8	1096.5	1097.2	1097.2	1097.9
5°	1106.6	1105.3	1110.0	1108.0	1112.7	1112.0	1115.4	1118.1	1119.5	1119.5	1119.5
7.5°	1128.9	1133.6	1136.3	1143.8	1144.5	1148.5	1151.9	1155.3	1153.9	1154.6	1153.9
10°	1153.9	1160.0	1166.7	1174.2	1174.8	1179.6	1185.0	1188.3	1187.0	1186.3	1184.3
12.5°	1175.5	1179.6	1187.7	1195.1	1199.1	1206.6	1212.0	1214.7	1214.7	1212.6	1210.6
15°	1174.2	1180.2	1189.0	1199.8	1207.2	1218.0	1227.5	1233.6	1234.3	1232.2	1231.6
17.5°	1144.5	1153.2	1161.3	1176.2	1189.7	1204.5	1220.1	1228.9	1237.0	1241.7	1244.4
20°	1091.1	1101.9	1113.4	1133.0	1151.2	1170.8	1189.0	1201.8	1214.0	1228.2	1245.1
22.5°	1028.3	1044.5	1060.7	1085.7	1108.0	1130.3	1151.2	1166.7	1185.6	1209.9	1241.7
25°	954.7	971.6	991.9	1020.9	1049.2	1081.7	1112.7	1143.8	1180.2	1222.1	1271.4
27.5°	867.6	886.5	912.9	948.0	980.4	1013.5	1062.1	1111.4	1170.8	1224.8	1280.8
30°	781.2	805.5	833.9	869.0	901.4	948.6	997.3	1058.0	1120.8	1181.6	1248.4
32.5°	688.0	718.4	753.5	782.5	819.0	866.9	915.6	980.4	1047.2	1118.8	1192.4
35°	598.2	627.3	654.9	687.3	723.8	769.0	816.3	878.4	962.8	1039.1	1126.9
37.5°	507.1	534.1	553.7	579.3	611.0	661.0	711.7	783.2	862.9	956.7	1044.5
40°	427.4	449.7	472.0	492.2	519.2	566.5	620.5	690.7	769.0	860.2	958.1
42.5°	363.9	380.8	405.1	429.4	452.4	492.9	543.5	612.4	690.0	783.2	881.1
45°	310.6	322.1	341.6	361.9	390.3	424.0	472.6	542.9	621.9	715.7	819.0
47.5°	272.1	277.5	291.0	311.9	338.3	371.4	413.2	476.7	553.7	648.2	756.9
50°	245.8	251.8	258.6	276.2	299.8	333.5	368.0	423.3	493.6	586.1	694.1
52.5°	227.5	230.2	232.9	243.7	265.4	293.7	330.2	372.0	442.9	531.4	628.6
55°	216.7	217.4	219.4	224.8	241.0	267.4	299.1	338.9	394.3	478.0	577.3
57.5°	203.9	205.3	207.3	210.7	220.8	244.4	271.4	303.8	349.7	420.0	515.2
60°	191.8	195.1	198.5	200.5	205.9	220.1	243.1	268.7	305.9	358.5	434.1
62.5°	178.9	183.0	185.7	187.7	189.7	198.5	215.4	232.3	255.2	289.7	346.4
65°	167.4	170.1	172.2	173.5	174.9	177.6	185.0	191.8	198.5	219.4	260.6
67.5°	154.6	156.0	156.6	157.3	156.6	156.6	157.3	160.0	162.7	170.8	190.4
70°	139.8	141.8	141.8	142.5	142.5	140.4	140.4	140.4	140.4	142.5	153.3
72.5°	125.6	128.3	128.3	129.0	128.3	127.6	127.6	127.6	129.6	131.0	135.0
75°	112.1	114.8	114.1	114.8	115.5	115.5	116.8	117.5	119.5	120.2	122.9
77.5°	98.6	100.6	101.3	100.6	102.0	103.3	106.0	107.4	108.0	108.7	109.4
80°	85.7	87.1	86.4	84.4	87.8	89.8	93.9	98.6	97.2	97.9	99.3
82.5°	70.9	68.9	67.5	68.9	70.9	73.6	77.6	83.7	84.4	87.8	87.1
85°	54.7	48.6	47.9	51.3	50.6	54.0	60.8	65.5	69.5	72.9	69.5
87.5°	32.4	29.0	24.3	23.0	25.0	33.1	34.4	41.9	45.2	46.6	41.9
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°	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2
2.5°	1159.3	1162.7	1162.7	1164.0	1166.1	1166.7	1169.4	1174.2	1174.8	1174.8	1176.9
5°	1180.9	1184.3	1184.3	1187.0	1187.7	1191.0	1194.4	1199.8	1202.5	1201.8	1210.6
7.5°	1216.0	1213.3	1211.3	1215.3	1217.4	1221.4	1228.2	1232.9	1237.6	1245.1	1257.2
10°	1245.7	1241.7	1239.7	1242.4	1243.7	1248.4	1252.5	1259.2	1270.7	1282.2	1297.0
12.5°	1270.0	1265.3	1259.9	1261.3	1263.3	1269.4	1276.1	1284.9	1301.8	1316.6	1338.9
15°	1290.3	1283.5	1278.1	1280.8	1285.6	1293.7	1305.1	1320.7	1348.4	1374.0	1403.7
17.5°	1309.9	1308.5	1306.5	1315.3	1318.7	1337.6	1354.4	1382.8	1420.6	1459.1	1501.6
20°	1328.8	1343.6	1351.1	1368.6	1379.4	1405.1	1430.7	1465.2	1513.1	1565.8	1623.8
22.5°	1355.1	1395.6	1420.6	1456.4	1474.6	1502.3	1540.1	1585.4	1638.7	1706.2	1780.5
25°	1417.9	1477.3	1527.3	1583.3	1629.2	1671.8	1717.0	1771.7	1848.7	1910.1	2007.3
27.5°	1445.6	1529.3	1604.3	1683.3	1752.1	1817.6	1889.2	1955.4	2046.5	2129.6	2247.0
30°	1419.3	1513.8	1611.0	1714.3	1814.9	1914.2	2018.2	2119.4	2224.8	2340.9	2465.8
32.5°	1370.6	1476.6	1586.0	1707.6	1832.5	1961.4	2096.5	2243.7	2392.2	2536.7	2664.3
35°	1321.4	1435.5	1557.0	1696.1	1843.3	2003.3	2170.7	2357.1	2553.6	2736.6	2903.3
37.5°	1249.8	1375.4	1514.5	1675.2	1850.0	2047.2	2262.6	2492.1	2740.6	2992.5	3211.2
40°	1163.4	1296.4	1448.3	1633.3	1843.3	2092.4	2372.6	2667.0	2986.4	3293.6	3562.3
42.5°	1084.4	1214.0	1376.0	1577.3	1825.7	2132.3	2477.3	2843.9	3222.0	3565.7	3916.8
45°	1014.8	1158.0	1320.7	1538.1	1816.9	2166.0	2554.9	2976.2	3409.0	3818.2	4232.8
47.5°	951.3	1099.9	1282.2	1516.5	1812.9	2186.3	2608.9	3062.7	3542.1	4012.0	4493.4
50°	885.9	1030.3	1225.5	1492.9	1802.8	2185.6	2637.3	3121.4	3635.2	4162.6	4673.0
52.5°	815.6	960.8	1156.6	1449.6	1781.2	2173.4	2644.7	3161.3	3708.8	4255.1	4825.6
55°	751.5	887.2	1083.0	1377.4	1735.9	2143.7	2627.9	3178.1	3760.8	4346.9	4933.0
57.5°	677.9	819.0	1005.4	1278.1	1650.8	2091.1	2579.9	3154.5	3775.7	4408.3	5018.0
60°	576.6	715.0	906.8	1160.7	1517.8	1979.7	2490.8	3082.9	3728.4	4419.1	5078.8
62.5°	460.5	580.0	765.0	998.6	1330.8	1804.8	2326.0	2922.2	3581.2	4317.9	5047.7
65°	342.3	422.0	581.3	786.6	1114.1	1541.5	2060.7	2652.8	3293.6	4036.3	4852.6
67.5°	238.3	295.7	393.6	546.2	810.2	1190.4	1681.9	2232.2	2848.6	3515.1	4447.5
70°	180.3	206.6	259.9	345.0	524.6	810.9	1222.8	1713.0	2284.9	2927.0	3805.4
72.5°	153.9	167.4	197.2	236.3	321.4	492.9	767.7	1178.9	1686.0	2208.6	2919.5
75°	138.4	149.9	168.8	193.8	227.5	299.1	450.4	746.1	1116.8	1479.3	2037.1
77.5°	125.6	135.7	152.6	165.4	183.7	215.4	287.0	446.3	669.1	914.2	1264.0
80°	112.1	118.2	133.7	146.5	160.7	178.9	205.9	280.2	384.2	541.5	745.4
82.5°	95.9	100.6	112.1	129.6	140.4	147.9	156.0	185.7	230.2	293.7	413.9
85°	74.3	77.6	87.8	100.6	105.3	106.0	107.4	115.5	143.1	220.1	356.5
87.5°	37.8	41.9	52.7	56.7	47.9	52.0	52.7	56.0	74.3	120.9	122.9
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	0°
2.5°	1176.9	1178.9	1183.6	1182.9	1186.3	1186.3	1186.3	1189.7	1187.7	1189.7	1193.1	2.5°
5°	1210.6	1214.0	1220.7	1220.7	1221.4	1221.4	1223.4	1226.2	1222.8	1221.4	1222.1	5°
7.5°	1259.9	1265.3	1270.7	1276.1	1280.2	1278.1	1278.8	1272.7	1271.4	1266.7	1260.6	7.5°
10°	1307.8	1322.7	1332.8	1342.3	1343.0	1340.9	1341.6	1331.5	1329.5	1320.0	1313.9	10°
12.5°	1357.1	1376.0	1392.2	1402.4	1408.5	1409.8	1410.5	1410.5	1401.0	1392.9	1378.7	12.5°
15°	1430.1	1463.1	1488.1	1498.9	1507.7	1515.8	1517.8	1520.5	1513.1	1502.3	1500.3	15°
17.5°	1545.5	1576.6	1609.7	1638.7	1658.3	1659.6	1676.5	1675.2	1690.7	1678.5	1675.2	17.5°
20°	1682.6	1750.1	1784.5	1823.0	1845.3	1856.1	1895.3	1883.1	1894.6	1914.2	1894.6	20°
22.5°	1854.1	1939.8	1989.8	2042.5	2078.9	2105.3	2133.6	2155.9	2186.9	2201.8	2188.3	22.5°
25°	2081.6	2179.5	2238.9	2311.9	2369.9	2417.2	2466.5	2525.9	2525.2	2561.0	2586.0	25°
27.5°	2342.9	2467.8	2554.3	2682.5	2732.5	2812.2	2896.6	2988.4	3004.6	3051.2	3074.8	27.5°
30°	2588.7	2743.3	2914.8	3067.4	3240.2	3358.4	3456.3	3521.1	3619.0	3594.7	3581.2	30°
32.5°	2815.6	3021.5	3265.9	3516.4	3790.5	3977.6	4150.4	4230.8	4291.5	4162.6	3991.7	32.5°
35°	3109.9	3356.4	3635.9	3945.2	4293.6	4558.9	4737.2	4762.1	4727.7	4562.3	4279.4	35°
37.5°	3474.5	3733.1	4051.2	4377.9	4748.0	4997.1	5200.3	5236.8	5145.6	4850.6	4553.5	37.5°
40°	3834.4	4137.6	4482.6	4869.5	5253.0	5527.1	5731.0	5741.8	5593.3	5248.3	4900.5	40°
42.5°	4228.1	4559.6	4943.8	5372.5	5768.8	6046.4	6193.5	6240.1	6030.1	5587.9	5254.3	42.5°
45°	4567.7	4964.0	5392.1	5847.8	6262.4	6525.7	6675.6	6660.8	6406.9	5970.1	5579.1	45°
47.5°	4898.5	5334.7	5785.7	6269.8	6681.7	6947.7	7101.7	7088.2	6766.1	6263.1	5833.0	47.5°
50°	5192.9	5666.2	6148.3	6665.5	7076.0	7319.8	7508.1	7448.7	7041.6	6498.7	5996.4	50°
52.5°	5397.5	5925.5	6429.2	6988.2	7410.9	7641.8	7881.5	7690.4	7204.3	6643.2	6084.2	52.5°
55°	5527.1	6103.7	6629.0	7247.5	7662.8	7938.9	8093.5	7822.1	7267.1	6683.1	6114.5	55°
57.5°	5614.9	6201.6	6746.5	7397.4	7889.6	8121.2	8159.0	7826.8	7226.6	6620.3	6084.2	57.5°
60°	5658.1	6230.7	6799.9	7502.7	8049.0	8175.9	8107.0	7717.5	7086.8	6435.9	5888.4	60°
62.5°	5653.4	6194.2	6772.2	7537.9	8080.7	8096.9	7940.3	7531.1	6829.6	6049.1	5562.9	62.5°
65°	5533.2	6061.2	6616.2	7407.5	7932.8	7863.3	7666.1	7181.4	6329.3	5544.0	5298.2	65°
67.5°	5186.8	5693.2	6208.4	6980.8	7516.2	7448.7	7150.3	6494.0	5747.9	5097.0	4964.7	67.5°
70°	4607.5	5036.9	5489.3	6167.9	6729.6	6638.5	6116.6	5717.5	5172.0	4580.5	4534.6	70°
72.5°	3852.0	4177.4	4505.6	5010.6	5397.5	5211.1	4883.0	4862.1	4421.2	3969.5	3978.9	72.5°
75°	3012.7	3257.1	3410.4	3707.5	3964.7	3798.0	3817.5	3933.7	3788.5	3432.7	3317.2	75°
77.5°	2182.9	2417.2	2465.8	2642.0	2823.0	3012.7	3263.9	3537.3	3583.2	3383.4	2964.8	77.5°
80°	1428.7	1686.6	1590.8	1653.5	1908.1	2254.5	2712.9	3163.3	3317.9	3138.3	2623.1	80°
82.5°	842.6	1203.9	1051.3	1158.6	1320.0	1621.8	1938.5	2278.1	2536.7	2345.6	2191.0	82.5°
85°	640.1	949.3	1005.4	1135.7	1188.3	1201.2	1256.5	1367.3	1501.0	1550.9	1546.9	85°
87.5°	333.5	738.0	828.5	766.3	715.0	619.8	483.4	520.6	476.0	650.9	616.5	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°
1128.2	1128.2	1128.2	1128.2	1128.2	1128.2	1128.2
1193.7	1191.7	1193.1	1193.7	1193.7	1193.7	1195.1
1221.4	1216.0	1214.0	1214.0	1213.3	1211.3	1210.6
1251.1	1241.7	1238.3	1234.3	1230.9	1228.9	1225.5
1304.5	1296.4	1279.5	1270.0	1261.3	1255.2	1249.8
1376.0	1364.6	1348.4	1336.2	1322.7	1318.7	1311.9
1486.8	1476.6	1462.5	1449.0	1440.9	1426.7	1416.6
1659.6	1639.4	1625.2	1607.6	1588.1	1559.0	1544.8
1887.2	1846.7	1818.3	1802.8	1763.6	1758.9	1724.4
2148.5	2136.3	2093.1	2074.2	2036.4	2021.5	1967.5
2539.4	2529.9	2441.5	2432.0	2374.0	2330.8	2247.0
3053.2	2975.6	2875.6	2806.1	2706.8	2595.4	2453.0
3502.2	3343.6	3191.0	3028.9	2891.9	2731.8	2570.5
3788.5	3575.8	3379.3	3213.2	3043.8	2853.4	2646.1
4039.7	3825.0	3610.9	3414.4	3209.2	2965.4	2709.5
4340.1	4126.8	3885.7	3609.6	3346.3	3047.8	2735.2
4648.0	4398.2	4097.1	3758.8	3428.0	3088.3	2730.5
4963.3	4644.0	4243.6	3858.1	3479.9	3094.4	2698.7
5219.2	4815.5	4352.3	3908.7	3490.7	3073.5	2658.9
5400.2	4925.5	4400.9	3926.2	3477.2	3040.4	2604.9
5503.5	4985.6	4413.1	3913.4	3449.6	2993.1	2546.2
5541.3	5003.9	4400.9	3887.1	3424.6	2942.5	2505.0
5537.3	4993.7	4356.3	3825.6	3357.7	2875.0	2454.3
5461.0	4899.9	4265.2	3752.0	3301.0	2843.9	2457.7
5331.3	4840.5	4238.2	3766.9	3330.7	2910.8	2564.4
5272.6	4959.3	4390.1	3915.4	3483.3	3101.8	2784.5
5239.5	5152.4	4607.5	4075.5	3664.3	3333.4	3047.1
5104.5	5207.8	4731.1	4166.6	3825.6	3565.7	3309.8
4886.4	5078.8	4637.2	4149.1	3914.8	3743.9	3404.3
4431.3	4634.5	4219.3	3890.5	3803.4	3746.6	3262.5
3590.0	3695.3	3459.0	3384.7	3417.2	3417.8	2736.6
2647.4	2584.0	2477.3	2482.7	2700.8	2667.0	1950.6
2161.3	1769.0	1617.8	1675.2	1944.6	1799.4	1225.5
2011.4	1577.9	1302.4	1316.0	1468.5	1159.3	738.0
1626.5	1438.2	1153.2	1035.1	1004.7	772.4	501.0
680.6	625.9	465.9	420.0	344.3	210.7	95.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)