

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: P159091

Luminaire Tested: **VST-E03-LED-E-U-SLR-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159091
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-E03-LED-E-U-SLR-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8272.3 lumens
Efficiency: N/A
Efficacy: 110.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

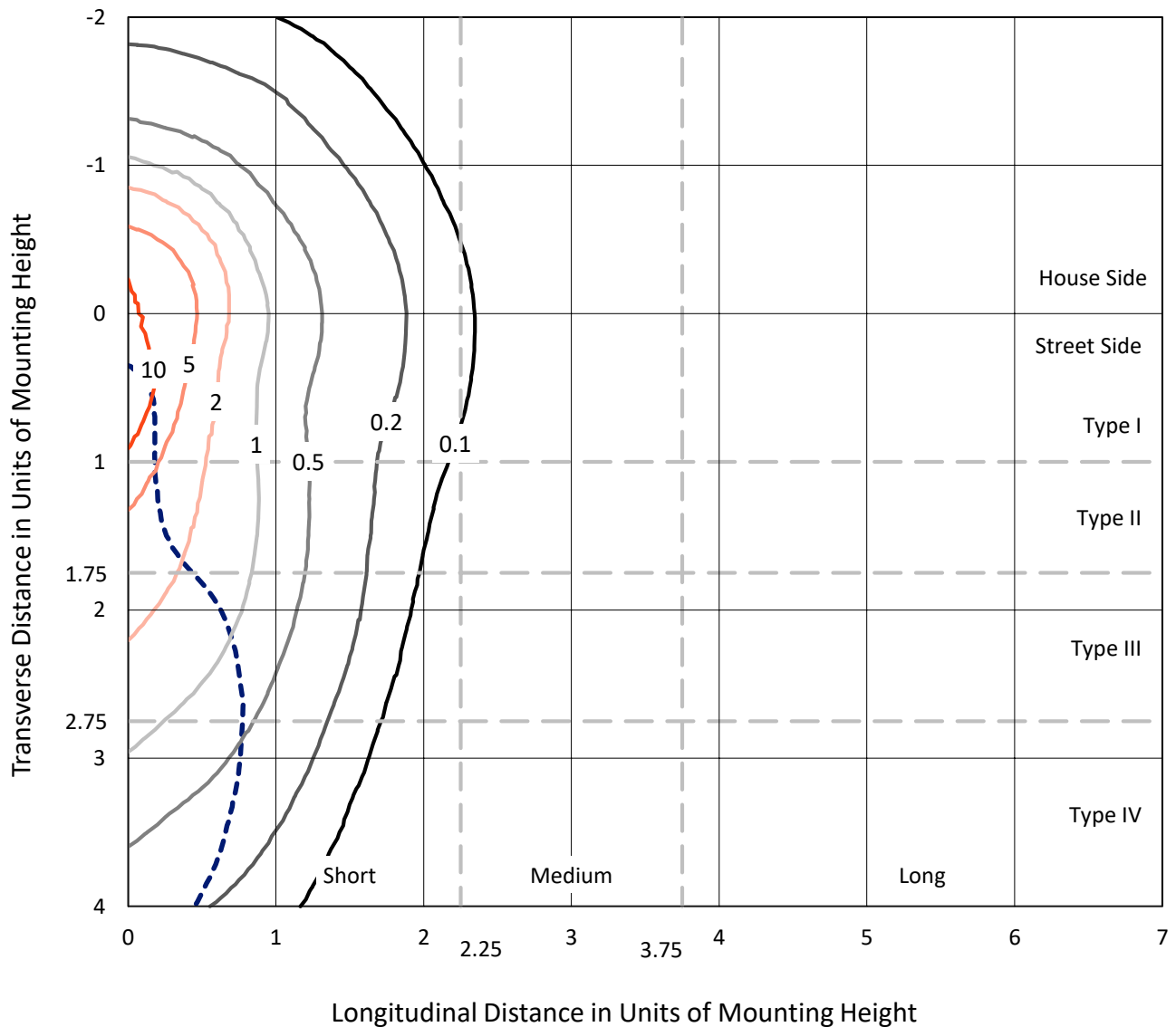
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P159091
 CATALOG NUMBER: VST-E03-LED-E-U-SLR-7050

Iso-Footcandle Lines of Horizontal Illumination

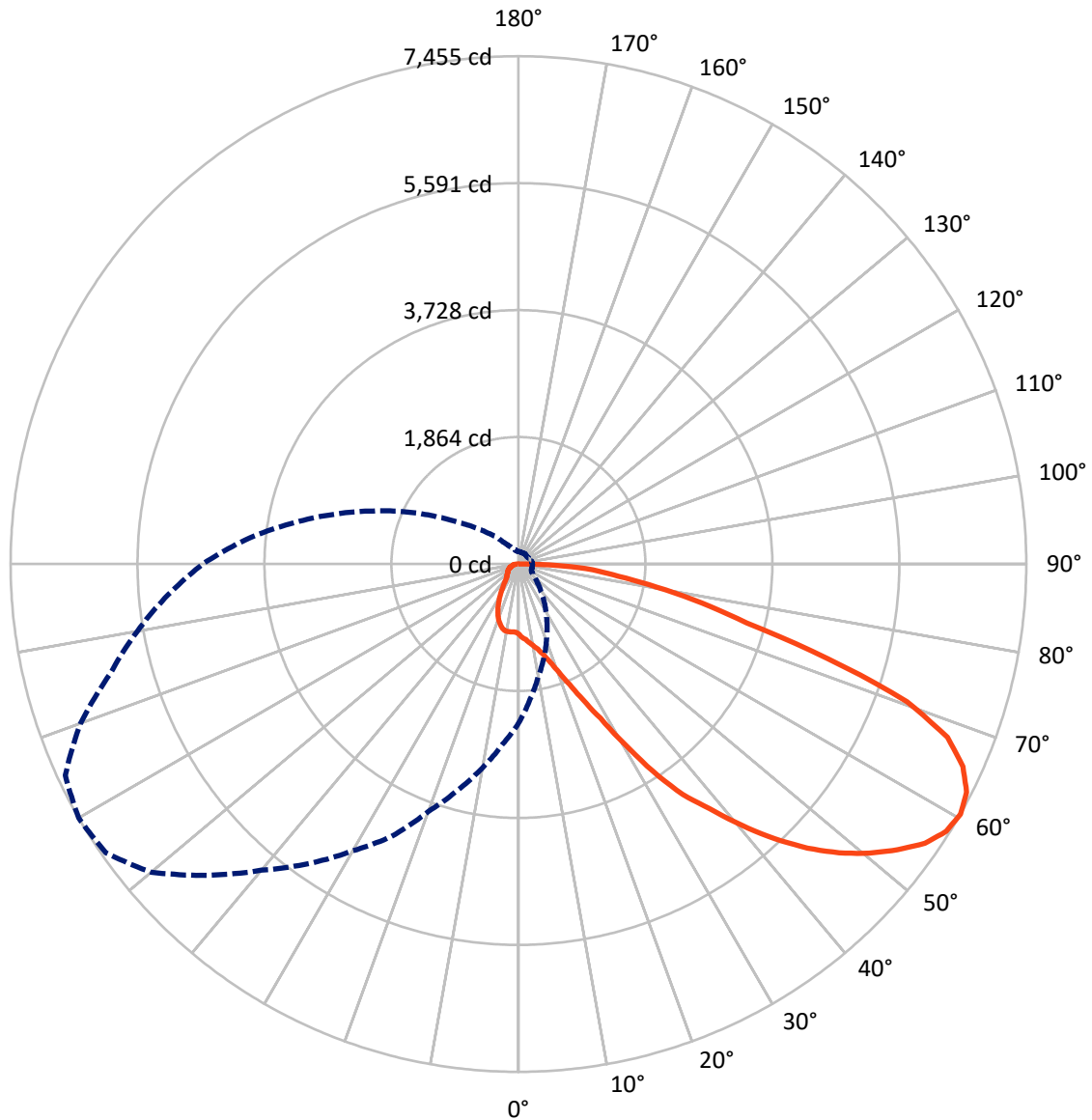
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P159091
CATALOG NUMBER: VST-E03-LED-E-U-SLR-7050

Luminous Intensity Polar Plot



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

REPORT NUMBER: P159091

CATALOG NUMBER: VST-E03-LED-E-U-SLR-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1862.7	0.0	1862.7
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	6409.6	0.0	6409.6
	% Fixture	77.5	0.0	77.5
Total	Lumens	8272.3	0.0	8272.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.5	1.2
10°-20°	327.7	4.0
20°-30°	621.9	7.5
30°-40°	979.3	11.8
40°-50°	1366.9	16.5
50°-60°	1690.5	20.4
60°-70°	1752.3	21.2
70°-80°	1102.6	13.3
80°-90°	329.6	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°	8272.3	100.0
0°-180°	8272.3	100.0



REPORT NUMBER: P159091

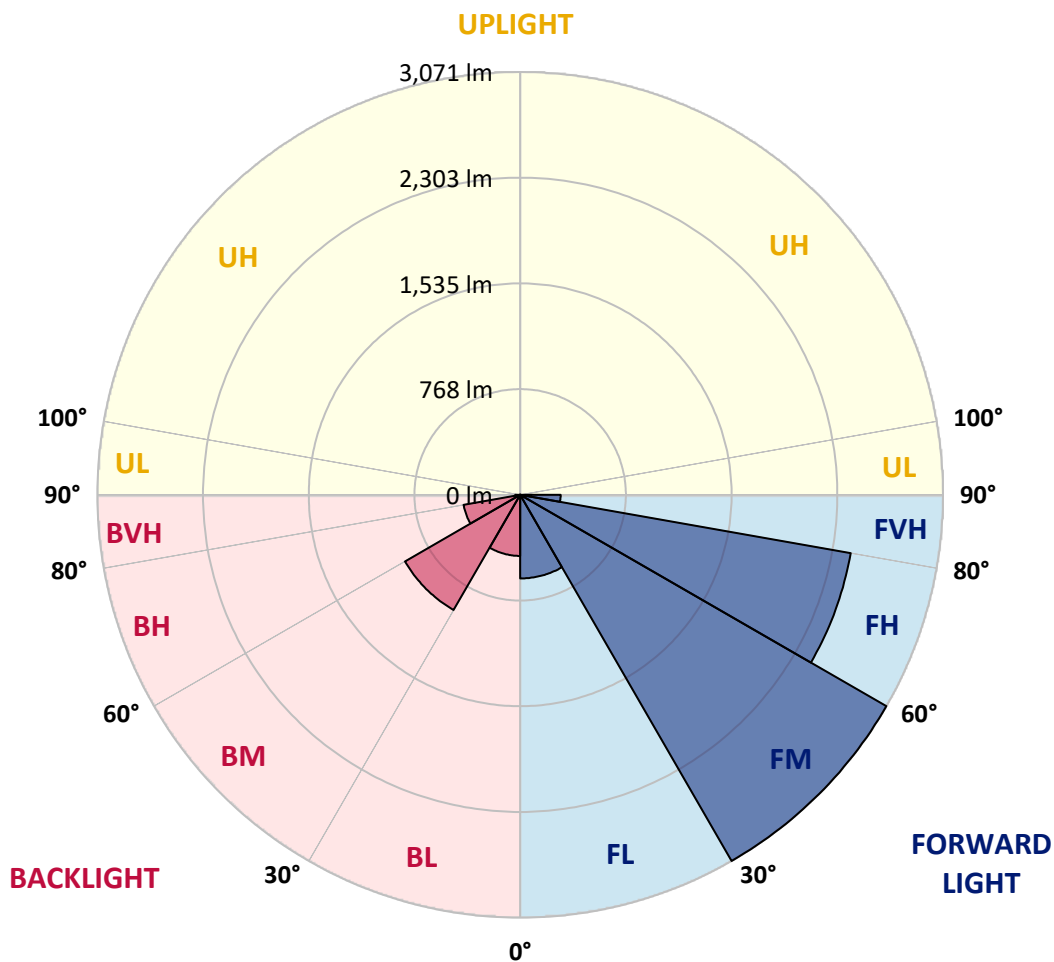
CATALOG NUMBER: VST-E03-LED-E-U-SLR-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	607.3	7.3			
FM	(30°-60°)	3070.8	37.1			
FH	(60°-80°)	2437.8	29.5			G2/5000
FVH	(80°-90°)	293.7	3.6			G3/500
BL	(0°-30°)	443.8	5.4	B1/500		
BM	(30°-60°)	965.9	11.7	B1/1000		
BH	(60°-80°)	417.2	5.0	B1/500		G1/500
BVH	(80°-90°)	35.9	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-G3

Type IV Short





REPORT NUMBER: P159091

CATALOG NUMBER: VST-E03-LED-E-U-SLR-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8
2.5°	1089.7	1024.4	1025.7	1023.8	1023.8	1022.6	1023.8	1022.6	1021.4	1021.4	1022.0
5°	1103.9	1031.9	1031.9	1030.0	1028.8	1027.6	1028.8	1027.6	1026.9	1025.7	1026.3
7.5°	1117.4	1036.1	1033.7	1031.2	1028.2	1029.4	1029.4	1028.8	1029.4	1028.8	1030.0
10°	1139.6	1050.3	1044.2	1038.6	1038.0	1036.8	1036.8	1034.9	1034.9	1033.7	1034.3
12.5°	1196.2	1094.0	1087.3	1077.4	1075.6	1070.0	1066.9	1063.3	1057.1	1051.6	1047.2
15°	1291.7	1166.7	1153.7	1145.2	1141.4	1130.3	1113.1	1099.6	1081.7	1066.3	1050.3
17.5°	1408.6	1264.0	1248.5	1237.5	1219.0	1188.8	1159.9	1126.7	1092.2	1060.8	1031.9
20°	1572.4	1403.7	1373.5	1347.1	1300.9	1249.2	1195.0	1137.1	1084.2	1034.9	992.5
22.5°	1794.1	1584.1	1528.1	1457.3	1371.7	1284.3	1198.1	1118.0	1047.2	983.2	926.6
25°	2048.9	1756.5	1655.5	1533.6	1402.5	1281.8	1168.5	1065.7	983.2	900.7	839.2
27.5°	2236.7	1900.6	1751.6	1591.5	1424.0	1270.1	1131.0	1006.6	906.9	822.5	748.0
30°	2343.8	1983.1	1803.9	1616.1	1427.7	1250.4	1083.5	939.5	824.4	724.0	652.6
32.5°	2412.8	2027.4	1809.4	1591.5	1383.4	1191.9	1011.5	861.9	736.9	629.8	554.1
35°	2470.7	2045.2	1783.6	1536.7	1299.7	1103.3	919.2	769.6	637.2	538.7	461.2
37.5°	2494.1	2042.2	1742.3	1463.5	1217.8	1006.6	825.0	671.7	553.5	466.7	400.2
40°	2489.8	2013.8	1686.3	1385.2	1121.8	905.6	725.3	590.4	494.4	421.1	372.5
42.5°	2460.8	1976.3	1624.1	1305.8	1033.7	821.9	657.5	538.1	460.5	405.1	362.6
45°	2424.5	1931.3	1567.5	1233.2	964.1	762.2	618.1	523.3	456.2	403.3	357.7
47.5°	2375.2	1881.5	1510.2	1181.5	927.2	744.4	617.5	532.0	459.9	398.9	349.1
50°	2321.6	1845.1	1478.8	1159.3	922.9	755.4	639.1	545.5	462.4	394.6	337.4
52.5°	2284.1	1829.2	1478.2	1167.3	945.7	786.2	664.3	562.7	471.6	397.1	334.9
55°	2237.9	1826.7	1494.2	1201.8	995.5	838.6	704.3	592.3	490.7	406.3	336.8
57.5°	2241.0	1875.3	1556.4	1286.8	1085.4	909.4	755.4	628.6	509.2	411.9	333.7
60°	2338.3	1988.6	1678.9	1432.0	1203.0	992.5	807.8	648.3	507.9	399.5	318.9
62.5°	2539.0	2158.5	1862.4	1602.6	1322.5	1056.5	826.9	642.8	489.5	373.1	294.9
65°	2778.5	2357.4	2040.9	1735.0	1395.1	1071.2	810.2	611.9	452.5	338.6	266.0
67.5°	3018.0	2498.3	2143.7	1772.5	1365.5	1011.5	748.6	543.0	389.7	291.8	233.3
70°	3104.2	2527.3	2135.8	1688.2	1231.3	863.2	616.3	437.1	312.8	238.9	196.4
72.5°	2974.9	2346.3	1898.7	1434.5	1001.0	669.2	451.9	322.6	238.9	187.1	160.1
75°	2495.3	1889.5	1501.0	1080.5	722.8	473.5	326.3	235.2	179.8	148.4	128.0
77.5°	1778.6	1315.7	1022.6	709.9	469.1	328.1	233.9	176.7	142.9	118.8	104.0
80°	1117.4	807.8	623.0	426.1	292.4	222.9	168.1	139.7	115.1	96.7	86.8
82.5°	672.9	470.3	367.0	264.7	192.1	152.7	123.7	109.6	91.7	80.0	74.5
85°	456.8	346.0	240.7	156.4	115.7	89.9	84.4	75.7	68.3	57.2	55.4
87.5°	87.4	123.7	107.8	64.0	42.5	36.3	32.0	30.8	27.7	22.1	25.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159091

CATALOG NUMBER: VST-E03-LED-E-U-SLR-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8
2.5°	1018.3	1017.1	1014.6	1014.6	1012.7	1009.1	1008.5	1006.0	1002.9	1003.6	1002.9
5°	1022.0	1019.5	1016.5	1015.2	1012.7	1009.1	1007.2	1004.2	1001.0	1001.0	1001.0
7.5°	1026.3	1023.2	1020.8	1016.5	1011.5	1007.8	1002.9	999.2	997.4	996.8	997.4
10°	1030.0	1028.2	1024.4	1018.3	1011.5	1004.2	999.2	994.3	989.4	990.0	990.6
12.5°	1038.0	1031.9	1022.0	1012.7	1002.3	993.1	984.4	978.3	972.1	972.1	972.7
15°	1032.5	1014.6	1001.0	983.2	971.5	956.8	946.9	941.3	937.7	936.4	937.0
17.5°	999.8	978.3	958.0	941.9	926.0	914.3	910.0	906.2	901.3	903.8	901.3
20°	950.6	924.1	895.2	876.1	857.0	849.0	841.6	837.9	834.8	845.9	845.9
22.5°	879.8	847.7	818.2	794.8	773.3	764.6	757.3	752.9	754.8	768.4	769.6
25°	790.5	751.7	712.9	698.8	677.2	670.4	666.1	665.5	667.4	680.9	684.0
27.5°	695.7	655.1	621.8	589.2	579.4	573.8	565.8	575.0	576.9	591.7	597.8
30°	594.7	551.0	515.9	494.4	473.5	476.5	469.7	480.8	485.8	501.1	506.1
32.5°	491.3	450.1	415.0	393.4	378.7	380.5	375.5	385.4	390.4	408.8	418.0
35°	406.3	371.2	342.9	324.5	317.7	310.9	309.7	310.9	315.8	330.0	346.6
37.5°	357.7	328.7	308.5	294.9	285.7	281.3	278.9	278.9	278.9	282.0	290.0
40°	336.8	310.9	293.0	280.1	274.0	271.5	269.6	267.8	264.7	263.5	264.1
42.5°	327.5	298.0	278.9	269.0	265.4	265.4	265.4	264.1	261.1	257.9	254.9
45°	318.3	286.3	267.2	260.4	258.6	259.2	259.2	259.2	256.7	253.0	247.5
47.5°	306.6	273.4	254.3	250.0	250.0	251.8	252.4	252.4	250.0	246.2	242.0
50°	292.4	256.7	239.5	235.8	233.9	233.9	233.9	233.9	232.1	229.6	226.6
52.5°	285.1	247.5	229.6	226.0	226.0	224.1	223.5	221.6	219.8	217.9	213.7
55°	282.6	243.8	225.4	222.2	222.2	220.4	218.6	216.7	213.7	210.5	206.2
57.5°	275.8	235.8	219.8	217.3	217.3	216.1	214.3	212.4	209.3	205.0	199.5
60°	260.4	222.2	208.7	208.1	208.1	207.5	206.2	206.2	203.2	198.8	192.1
62.5°	240.7	208.1	195.2	195.2	194.5	193.9	191.5	190.9	187.1	181.6	175.4
65°	221.6	195.8	187.1	184.7	183.5	181.6	180.4	177.3	174.2	169.3	163.1
67.5°	197.6	177.3	171.8	169.3	166.9	165.0	163.1	161.3	157.6	153.9	149.0
70°	171.8	157.0	153.9	153.3	150.2	148.4	147.8	145.9	142.2	138.5	132.4
72.5°	147.1	138.5	136.1	136.1	132.4	129.9	128.7	128.0	125.6	122.5	117.0
75°	118.8	112.7	112.1	115.1	115.1	113.3	112.1	113.3	109.6	107.8	102.2
77.5°	97.3	94.2	92.3	93.6	97.3	95.4	92.9	92.9	92.9	89.9	88.0
80°	82.5	80.0	78.2	79.4	78.8	78.2	77.0	74.5	74.5	74.5	73.9
82.5°	74.5	73.9	67.1	67.1	64.6	62.8	61.6	60.4	59.1	59.1	62.2
85°	56.0	57.9	54.2	53.6	50.5	48.0	45.5	44.3	43.1	44.9	51.1
87.5°	27.1	27.1	25.9	28.9	26.5	25.3	23.4	22.1	23.4	28.9	34.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159091
 CATALOG NUMBER: VST-E03-LED-E-U-SLR-7050

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8
2.5°	1001.7	1001.0	1000.4	999.2	996.8	996.1	994.9	994.9	994.3	993.1	994.3
5°	999.8	1001.0	1001.0	1000.4	998.6	999.8	999.8	1001.7	1001.7	1002.9	1006.0
7.5°	997.4	1000.4	1002.9	1004.8	1007.2	1009.1	1012.7	1018.3	1020.8	1025.1	1026.9
10°	992.5	998.0	1002.3	1007.8	1014.0	1020.8	1026.3	1034.9	1038.0	1044.2	1047.2
12.5°	978.3	987.5	994.9	1006.0	1016.5	1026.9	1036.8	1047.8	1053.4	1060.2	1064.5
15°	943.8	954.3	964.7	974.6	993.1	1013.4	1029.4	1044.2	1052.2	1060.8	1065.1
17.5°	902.6	909.4	917.9	930.9	948.7	966.6	992.5	1013.4	1025.7	1035.5	1036.8
20°	854.5	864.4	870.5	875.5	889.6	901.9	929.6	953.6	969.7	981.4	984.4
22.5°	781.3	791.8	802.2	805.9	817.0	833.0	848.4	874.3	897.0	914.3	924.7
25°	697.6	707.4	721.6	732.7	735.1	748.0	763.4	793.0	816.4	844.1	856.4
27.5°	613.8	622.4	637.8	644.0	651.4	664.3	676.6	701.2	725.9	757.9	771.4
30°	515.9	534.4	552.2	563.9	570.1	585.5	594.1	618.1	640.9	664.3	684.0
32.5°	432.2	448.8	469.1	483.9	491.3	503.0	516.5	536.9	554.7	577.5	600.3
35°	355.3	378.0	391.6	404.5	423.6	429.1	442.7	461.2	471.6	496.2	522.1
37.5°	301.1	314.6	328.1	341.1	357.1	364.5	377.4	392.8	405.1	419.9	443.3
40°	267.8	275.2	285.1	293.7	305.3	314.6	321.4	334.3	343.6	358.3	374.9
42.5°	252.4	254.3	255.5	261.7	267.8	274.0	281.3	286.9	298.0	309.1	319.5
45°	243.8	240.1	238.3	238.9	241.3	245.0	251.2	257.3	264.7	271.5	277.7
47.5°	236.4	231.5	226.0	222.9	223.5	224.7	229.6	234.5	238.3	243.8	246.2
50°	219.2	214.9	209.9	205.6	206.2	206.9	211.2	214.9	217.3	219.2	222.2
52.5°	208.1	202.0	197.6	193.3	192.7	194.5	198.2	202.0	203.2	204.4	205.0
55°	200.1	193.9	188.4	184.1	182.2	186.5	187.8	192.7	194.5	194.5	195.2
57.5°	193.9	186.5	181.0	176.7	173.6	176.7	179.8	185.3	185.9	184.7	184.7
60°	184.7	179.2	173.6	169.3	166.2	168.7	171.2	177.3	177.3	174.2	173.6
62.5°	168.7	165.6	161.9	160.1	159.5	161.9	163.7	168.7	166.9	163.1	161.9
65°	157.0	154.6	150.8	149.6	149.0	152.7	153.3	156.4	153.9	152.0	151.4
67.5°	142.9	141.0	139.1	138.5	136.7	136.7	137.9	139.7	138.5	138.5	139.1
70°	126.8	124.4	122.5	123.1	121.9	121.9	122.5	123.7	123.1	124.4	125.6
72.5°	112.1	109.0	108.4	108.4	107.1	107.8	107.8	108.4	109.6	110.2	113.3
75°	97.9	94.8	94.8	94.2	94.2	94.2	94.8	96.1	97.3	97.9	99.1
77.5°	85.0	83.1	83.8	83.1	83.1	83.1	83.1	85.0	85.6	86.2	88.0
80°	73.3	73.3	73.9	73.9	73.3	72.7	73.3	74.5	75.1	75.7	76.3
82.5°	66.5	67.1	67.1	67.1	64.0	62.8	64.6	65.9	67.1	67.7	68.9
85°	57.2	54.8	57.2	56.6	52.3	51.7	51.7	52.3	53.6	52.3	52.3
87.5°	37.0	33.2	35.1	35.1	30.8	25.3	32.0	34.5	30.8	32.6	32.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159091

CATALOG NUMBER: VST-E03-LED-E-U-SLR-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8
2.5°	996.1	994.9	995.5	995.5	996.8	994.9	997.4	999.8	1000.4	1000.4	1001.0
5°	1009.1	1007.8	1012.1	1010.3	1014.6	1014.0	1017.1	1019.5	1020.8	1020.8	1020.8
7.5°	1029.4	1033.7	1036.1	1042.9	1043.5	1047.2	1050.3	1053.4	1052.2	1052.8	1052.2
10°	1052.2	1057.7	1063.9	1070.6	1071.2	1075.6	1080.5	1083.5	1082.3	1081.7	1079.9
12.5°	1071.8	1075.6	1082.9	1089.7	1093.4	1100.2	1105.1	1107.6	1107.6	1105.7	1103.9
15°	1070.6	1076.2	1084.2	1094.0	1100.8	1110.7	1119.3	1124.8	1125.4	1123.6	1123.0
17.5°	1043.5	1051.6	1058.9	1072.5	1084.8	1098.4	1112.5	1120.5	1127.9	1132.2	1134.7
20°	994.9	1004.8	1015.2	1033.1	1049.7	1067.6	1084.2	1095.9	1106.9	1119.9	1135.3
22.5°	937.7	952.4	967.2	990.0	1010.3	1030.6	1049.7	1063.9	1081.1	1103.3	1132.2
25°	870.5	886.0	904.4	930.9	956.8	986.3	1014.6	1042.9	1076.2	1114.4	1159.3
27.5°	791.1	808.4	832.4	864.4	893.9	924.1	968.5	1013.4	1067.6	1116.8	1167.9
30°	712.3	734.5	760.3	792.4	821.9	865.0	909.4	964.7	1022.0	1077.4	1138.4
32.5°	627.4	655.1	687.1	713.6	746.8	790.5	834.8	893.9	954.9	1020.2	1087.3
35°	545.5	572.0	597.2	626.8	660.0	701.2	744.4	801.0	877.9	947.5	1027.6
37.5°	462.4	487.0	504.8	528.2	557.2	602.8	648.9	714.2	786.8	872.4	952.4
40°	389.7	410.0	430.3	448.8	473.5	516.5	565.8	629.8	701.2	784.4	873.6
42.5°	331.9	347.2	369.4	391.6	412.5	449.5	495.6	558.4	629.2	714.2	803.5
45°	283.2	293.7	311.5	330.0	355.9	386.6	431.0	495.0	567.0	652.6	746.8
47.5°	248.1	253.0	265.4	284.5	308.5	338.6	376.8	434.6	504.8	591.1	690.2
50°	224.1	229.6	235.8	251.8	273.4	304.1	335.5	386.0	450.1	534.4	632.9
52.5°	207.5	209.9	212.4	222.2	242.0	267.8	301.1	339.2	403.9	484.5	573.2
55°	197.6	198.2	200.1	205.0	219.8	243.8	272.8	309.1	359.5	435.9	526.4
57.5°	185.9	187.1	189.0	192.1	201.3	222.9	247.5	277.0	318.9	382.9	469.7
60°	174.8	177.9	181.0	182.9	187.8	200.7	221.6	245.0	278.9	326.9	395.9
62.5°	163.1	166.9	169.3	171.2	173.0	181.0	196.4	211.8	232.7	264.1	315.8
65°	152.7	155.2	157.0	158.2	159.5	161.9	168.7	174.8	181.0	200.1	237.7
67.5°	141.0	142.2	142.9	143.5	142.9	142.9	143.5	145.9	148.4	155.8	173.6
70°	127.4	129.3	129.3	129.9	129.9	128.0	128.0	128.0	128.0	129.9	139.7
72.5°	114.5	117.0	117.0	117.6	117.0	116.3	116.3	116.3	118.2	119.5	123.1
75°	102.2	104.6	104.0	104.6	105.3	105.3	106.5	107.1	109.0	109.6	112.1
77.5°	89.9	91.7	92.3	91.7	92.9	94.2	96.7	97.9	98.5	99.1	99.7
80°	78.2	79.4	78.8	77.0	80.0	81.9	85.6	89.9	88.7	89.3	90.5
82.5°	64.6	62.8	61.6	62.8	64.6	67.1	70.8	76.3	77.0	80.0	79.4
85°	49.9	44.3	43.7	46.8	46.2	49.3	55.4	59.7	63.4	66.5	63.4
87.5°	29.6	26.5	22.1	20.9	22.8	30.2	31.4	38.2	41.2	42.5	38.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159091
 CATALOG NUMBER: VST-E03-LED-E-U-SLR-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8
2.5°	1057.1	1060.2	1060.2	1061.4	1063.3	1063.9	1066.3	1070.6	1071.2	1071.2	1073.1
5°	1076.8	1079.9	1079.9	1082.3	1082.9	1086.0	1089.1	1094.0	1096.5	1095.9	1103.9
7.5°	1108.8	1106.3	1104.5	1108.2	1110.1	1113.7	1119.9	1124.2	1128.5	1135.3	1146.4
10°	1135.9	1132.2	1130.3	1132.8	1134.1	1138.4	1142.0	1148.2	1158.7	1169.2	1182.7
12.5°	1158.1	1153.7	1148.8	1150.1	1151.9	1157.5	1163.6	1171.6	1187.0	1200.5	1220.9
15°	1176.5	1170.4	1165.4	1167.9	1172.2	1179.6	1190.1	1204.3	1229.5	1252.9	1280.0
17.5°	1194.4	1193.2	1191.3	1199.3	1202.4	1219.6	1235.0	1260.9	1295.3	1330.4	1369.3
20°	1211.6	1225.1	1231.9	1247.9	1257.8	1281.2	1304.6	1336.0	1379.7	1427.7	1480.7
22.5°	1235.6	1272.6	1295.3	1328.0	1344.6	1369.9	1404.3	1445.6	1494.2	1555.8	1623.5
25°	1292.9	1347.1	1392.7	1443.7	1485.6	1524.4	1565.6	1615.5	1685.7	1741.7	1830.4
27.5°	1318.1	1394.5	1462.8	1534.9	1597.6	1657.4	1722.6	1783.0	1866.1	1941.8	2048.9
30°	1294.1	1380.3	1469.0	1563.2	1654.9	1745.4	1840.2	1932.5	2028.6	2134.5	2248.4
32.5°	1249.8	1346.5	1446.2	1557.0	1670.9	1788.5	1911.7	2045.8	2181.3	2313.1	2429.4
35°	1204.9	1308.9	1419.7	1546.6	1680.8	1826.7	1979.3	2149.3	2328.4	2495.3	2647.4
37.5°	1139.6	1254.1	1381.0	1527.5	1686.9	1866.7	2063.1	2272.4	2499.0	2728.6	2928.1
40°	1060.8	1182.1	1320.6	1489.3	1680.8	1907.9	2163.4	2431.9	2723.1	3003.2	3248.2
42.5°	988.7	1106.9	1254.7	1438.2	1664.8	1944.2	2258.9	2593.2	2938.0	3251.3	3571.4
45°	925.3	1055.9	1204.3	1402.5	1656.7	1975.0	2329.7	2713.9	3108.5	3481.6	3859.6
47.5°	867.5	1002.9	1169.2	1382.8	1653.1	1993.5	2378.9	2792.6	3229.7	3658.3	4097.2
50°	807.8	939.5	1117.4	1361.2	1643.8	1992.9	2404.8	2846.2	3314.8	3795.5	4261.0
52.5°	743.7	876.1	1054.6	1321.8	1624.1	1981.8	2411.6	2882.5	3381.8	3879.9	4400.2
55°	685.3	809.0	987.5	1256.0	1582.9	1954.7	2396.2	2897.9	3429.2	3963.7	4498.0
57.5°	618.1	746.8	916.7	1165.4	1505.3	1906.7	2352.4	2876.4	3442.8	4019.6	4575.6
60°	525.8	652.0	826.9	1058.3	1384.0	1805.1	2271.2	2811.1	3399.7	4029.5	4631.0
62.5°	419.9	528.8	697.6	910.6	1213.5	1645.7	2120.9	2664.6	3265.5	3937.1	4602.7
65°	312.1	384.8	530.1	717.2	1015.9	1405.6	1879.0	2419.0	3003.2	3680.5	4424.8
67.5°	217.3	269.6	358.9	498.1	738.8	1085.4	1533.6	2035.4	2597.5	3205.1	4055.4
70°	164.4	188.4	237.1	314.6	478.4	739.4	1115.0	1561.9	2083.4	2668.9	3469.9
72.5°	140.4	152.7	179.8	215.5	293.0	449.5	700.0	1075.0	1537.3	2013.8	2662.1
75°	126.2	136.7	153.9	176.7	207.5	272.8	410.6	680.3	1018.3	1348.9	1857.5
77.5°	114.5	123.7	139.1	150.8	167.5	196.4	261.7	407.0	610.1	833.6	1152.5
80°	102.2	107.8	121.9	133.6	146.5	163.1	187.8	255.5	350.3	493.7	679.7
82.5°	87.4	91.7	102.2	118.2	128.0	134.8	142.2	169.3	209.9	267.8	377.4
85°	67.7	70.8	80.0	91.7	96.1	96.7	97.9	105.3	130.5	200.7	325.1
87.5°	34.5	38.2	48.0	51.7	43.7	47.4	48.0	51.1	67.7	110.2	112.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159091
 CATALOG NUMBER: VST-E03-LED-E-U-SLR-7050

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	0°
2.5°	1073.1	1075.0	1079.3	1078.6	1081.7	1081.7	1081.7	1084.8	1082.9	1084.8	1087.9	2.5°
5°	1103.9	1106.9	1113.1	1113.1	1113.7	1111.9	1115.6	1118.0	1115.0	1113.7	1114.4	5°
7.5°	1148.8	1153.7	1158.7	1163.6	1167.3	1165.4	1166.0	1160.5	1159.3	1155.0	1149.4	7.5°
10°	1192.6	1206.1	1215.3	1223.9	1224.5	1222.7	1223.3	1214.1	1212.2	1203.6	1198.1	10°
12.5°	1237.5	1254.7	1269.5	1278.7	1284.3	1285.5	1286.1	1286.1	1277.5	1270.1	1257.2	12.5°
15°	1304.0	1334.2	1356.9	1366.8	1374.8	1382.2	1384.0	1386.5	1379.7	1369.9	1368.0	15°
17.5°	1409.3	1437.6	1467.7	1494.2	1512.1	1513.3	1528.7	1527.5	1541.6	1530.5	1527.5	17.5°
20°	1534.3	1595.8	1627.2	1662.3	1682.6	1692.5	1728.2	1717.1	1727.6	1745.4	1727.6	20°
22.5°	1690.6	1768.8	1814.3	1862.4	1895.6	1919.6	1945.5	1965.8	1994.2	2007.7	1995.4	22.5°
25°	1898.1	1987.4	2041.6	2108.0	2161.0	2204.1	2249.0	2303.2	2302.6	2335.2	2358.0	25°
27.5°	2136.4	2250.2	2329.1	2446.0	2491.6	2564.2	2641.2	2724.9	2739.7	2782.2	2803.7	27.5°
30°	2360.5	2501.5	2657.8	2797.0	2954.6	3062.3	3151.6	3210.7	3299.9	3277.8	3265.5	30°
32.5°	2567.3	2755.1	2978.0	3206.4	3456.4	3626.9	3784.5	3857.8	3913.1	3795.5	3639.8	32.5°
35°	2835.7	3060.5	3315.4	3597.3	3915.0	4157.0	4319.5	4342.3	4310.9	4160.0	3902.1	35°
37.5°	3168.2	3404.0	3694.0	3992.0	4329.4	4556.5	4741.9	4775.1	4691.9	4422.9	4152.1	37.5°
40°	3496.4	3772.8	4087.4	4440.2	4789.9	5039.8	5225.8	5235.6	5100.2	4785.5	4468.5	40°
42.5°	3855.3	4157.6	4507.9	4898.8	5260.2	5513.3	5647.5	5690.0	5498.5	5095.2	4791.1	42.5°
45°	4165.0	4526.3	4916.7	5332.3	5710.3	5950.4	6087.1	6073.5	5842.0	5443.7	5087.2	45°
47.5°	4466.6	4864.4	5275.6	5717.0	6092.6	6335.2	6475.6	6463.3	6169.6	5710.9	5318.7	47.5°
50°	4735.1	5166.7	5606.2	6077.8	6452.2	6674.4	6846.2	6792.0	6420.8	5925.8	5467.7	50°
52.5°	4921.6	5403.1	5862.4	6372.1	6757.5	6968.1	7186.6	7012.4	6569.1	6057.5	5547.7	52.5°
55°	5039.8	5565.6	6044.6	6608.5	6987.2	7238.9	7379.9	7132.4	6626.4	6093.8	5575.4	55°
57.5°	5119.9	5654.9	6151.7	6745.2	7194.0	7405.2	7439.7	7136.8	6589.4	6036.6	5547.7	57.5°
60°	5159.3	5681.3	6200.3	6841.3	7339.3	7455.1	7392.2	7037.0	6462.0	5868.5	5369.2	60°
62.5°	5155.0	5648.1	6175.1	6873.2	7368.2	7383.1	7240.2	6867.1	6227.5	5515.7	5072.5	62.5°
65°	5045.3	5526.8	6032.9	6754.4	7233.4	7170.0	6990.2	6548.2	5771.2	5055.2	4831.1	65°
67.5°	4729.5	5191.3	5661.0	6365.3	6853.6	6792.0	6519.9	5921.5	5241.1	4647.7	4527.0	67.5°
70°	4201.3	4592.8	5005.3	5624.1	6136.3	6053.2	5577.3	5213.5	4716.0	4176.7	4134.8	70°
72.5°	3512.3	3809.1	4108.3	4568.8	4921.6	4751.7	4452.5	4433.4	4031.3	3619.5	3628.1	72.5°
75°	2747.1	2969.9	3109.7	3380.6	3615.2	3463.1	3481.0	3586.9	3454.5	3130.0	3024.8	75°
77.5°	1990.4	2204.1	2248.4	2409.1	2574.1	2747.1	2976.1	3225.5	3267.3	3085.1	2703.4	77.5°
80°	1302.7	1537.9	1450.5	1507.7	1739.9	2055.7	2473.7	2884.4	3025.4	2861.6	2391.8	80°
82.5°	768.4	1097.7	958.6	1056.5	1203.6	1478.8	1767.5	2077.3	2313.1	2138.8	1997.8	82.5°
85°	583.6	865.6	916.7	1035.5	1083.5	1095.2	1145.8	1246.7	1368.6	1414.2	1410.5	85°
87.5°	304.1	672.9	755.4	698.8	652.0	565.2	440.8	474.7	434.0	593.5	562.1	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°



NUMBER: P159091

NUMBER: VST-E03-LED-E-U-SLR-7050

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1028.8	1028.8	1028.8	1028.8	1028.8	1028.8	1028.8
1088.5	1086.7	1087.9	1088.5	1088.5	1088.5	1089.7
1113.7	1108.8	1106.9	1106.9	1106.3	1104.5	1103.9
1140.8	1132.2	1129.1	1125.4	1122.4	1120.5	1117.4
1189.4	1182.1	1166.7	1158.1	1150.1	1144.5	1139.6
1254.7	1244.3	1229.5	1218.4	1206.1	1202.4	1196.2
1355.7	1346.5	1333.5	1321.2	1313.8	1300.9	1291.7
1513.3	1494.8	1481.9	1465.9	1448.0	1421.6	1408.6
1720.8	1683.8	1658.0	1643.8	1608.1	1603.8	1572.4
1959.1	1948.0	1908.5	1891.3	1856.8	1843.3	1794.1
2315.5	2306.9	2226.2	2217.6	2164.7	2125.3	2048.9
2784.0	2713.2	2622.1	2558.7	2468.2	2366.6	2236.7
3193.4	3048.8	2909.6	2761.9	2636.9	2491.0	2343.8
3454.5	3260.6	3081.4	2929.9	2775.4	2601.8	2412.8
3683.5	3487.7	3292.6	3113.4	2926.3	2704.0	2470.7
3957.5	3763.0	3543.1	3291.4	3051.2	2779.1	2494.1
4238.2	4010.5	3735.8	3427.4	3125.7	2816.0	2489.8
4525.7	4234.6	3869.5	3517.9	3173.1	2821.6	2460.8
4759.1	4390.9	3968.6	3564.1	3183.0	2802.5	2424.5
4924.1	4491.2	4012.9	3580.1	3170.6	2772.4	2375.2
5018.3	4546.1	4024.0	3568.4	3145.4	2729.2	2321.6
5052.7	4562.7	4012.9	3544.4	3122.6	2683.1	2284.1
5049.1	4553.5	3972.2	3488.3	3061.7	2621.5	2237.9
4979.5	4467.8	3889.1	3421.3	3010.0	2593.2	2241.0
4861.3	4413.7	3864.5	3434.8	3037.1	2654.1	2338.3
4807.7	4522.0	4003.0	3570.2	3176.2	2828.3	2539.0
4777.6	4698.1	4201.3	3716.2	3341.2	3039.5	2778.5
4654.4	4748.6	4313.9	3799.3	3488.3	3251.3	3018.0
4455.5	4631.0	4228.4	3783.2	3569.6	3413.9	3104.2
4040.6	4225.9	3847.3	3547.4	3468.1	3416.3	2974.9
3273.5	3369.5	3154.0	3086.3	3115.9	3116.5	2495.3
2414.0	2356.1	2258.9	2263.8	2462.6	2431.9	1778.6
1970.8	1613.0	1475.1	1527.5	1773.1	1640.8	1117.4
1834.1	1438.8	1187.6	1199.9	1339.1	1057.1	672.9
1483.1	1311.4	1051.6	943.8	916.1	704.3	456.8
620.6	570.7	424.8	382.9	314.0	192.1	87.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)