

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: P159106

Luminaire Tested: **VST-F04-LED-E-U-SLR-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159106  
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-F04-LED-E-U-SLR-7050  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (28) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9105.3 lumens  
Efficiency: N/A  
Efficacy: 89.1 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): 102.2  
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

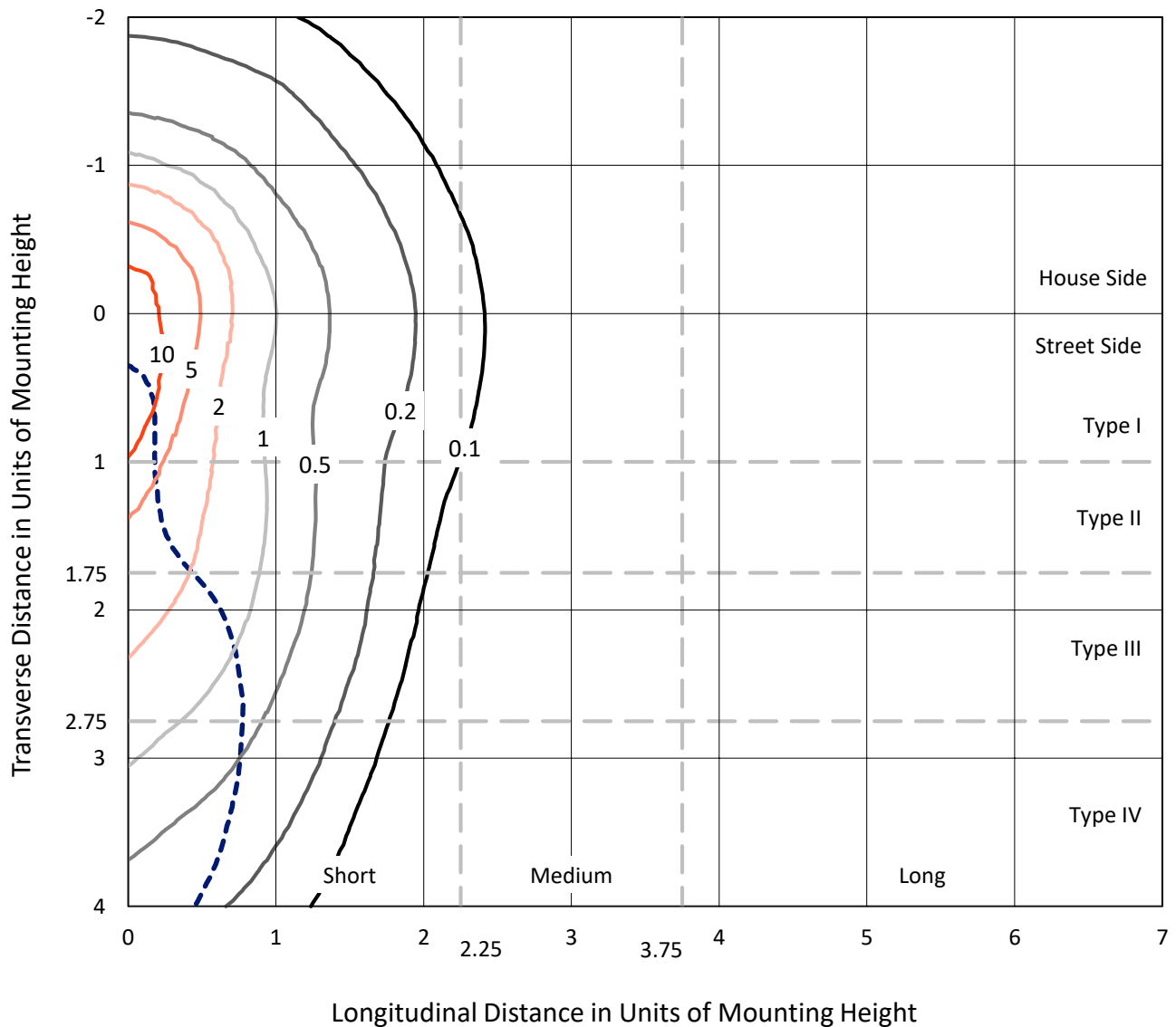




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### Iso-Footcandle Lines of Horizontal Illumination

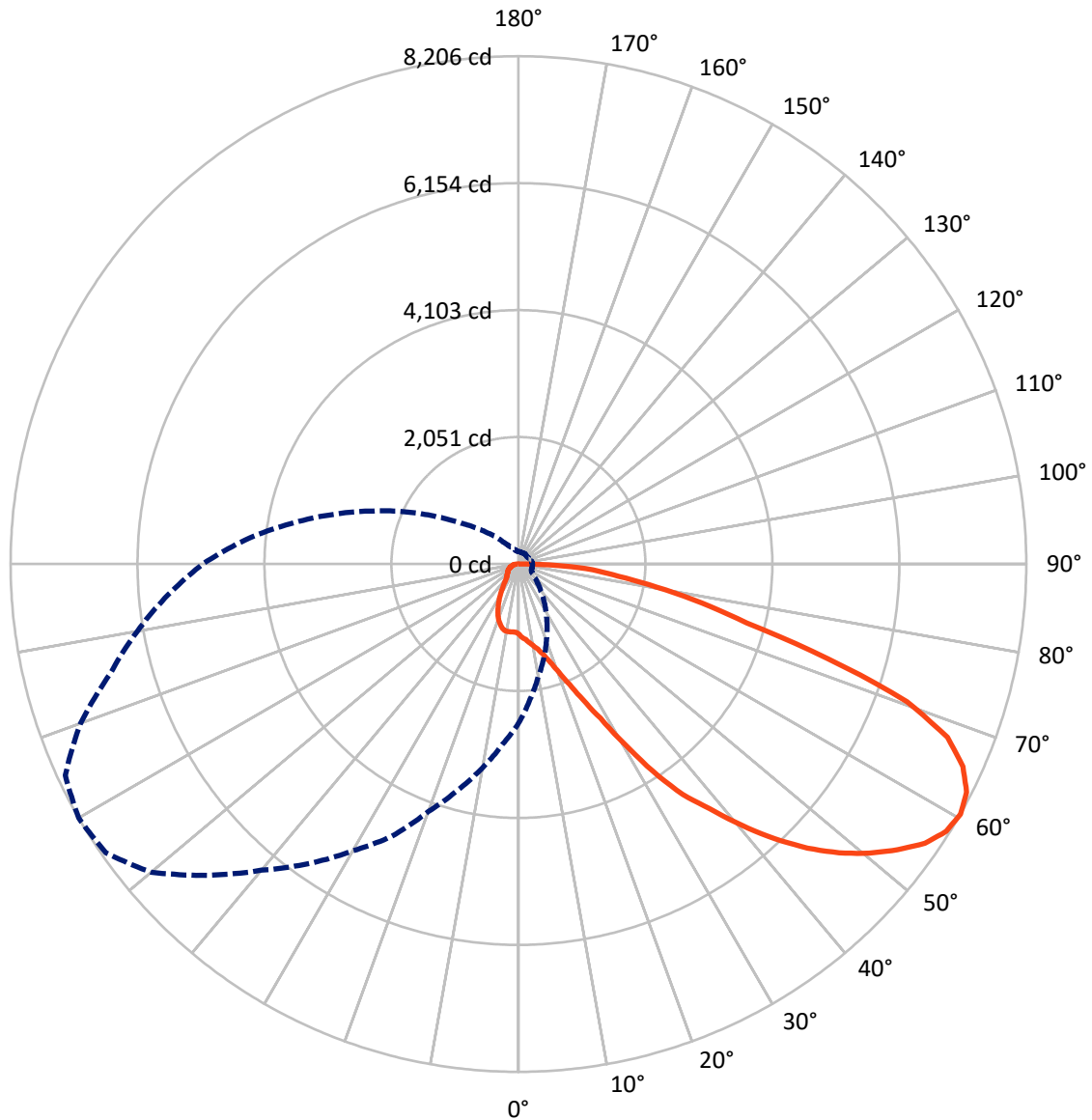
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 17.1 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
<b>House Side</b>	Lumens	2050.2	0.0	2050.2
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	7055.1	0.0	7055.1
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	9105.3	0.0	9105.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	111.7	1.2
10°-20°	360.7	4.0
20°-30°	684.5	7.5
30°-40°	1077.9	11.8
40°-50°	1504.5	16.5
50°-60°	1860.8	20.4
60°-70°	1928.8	21.2
70°-80°	1213.7	13.3
80°-90°	362.8	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°	9105.3	100.0
0°-180°	9105.3	100.0



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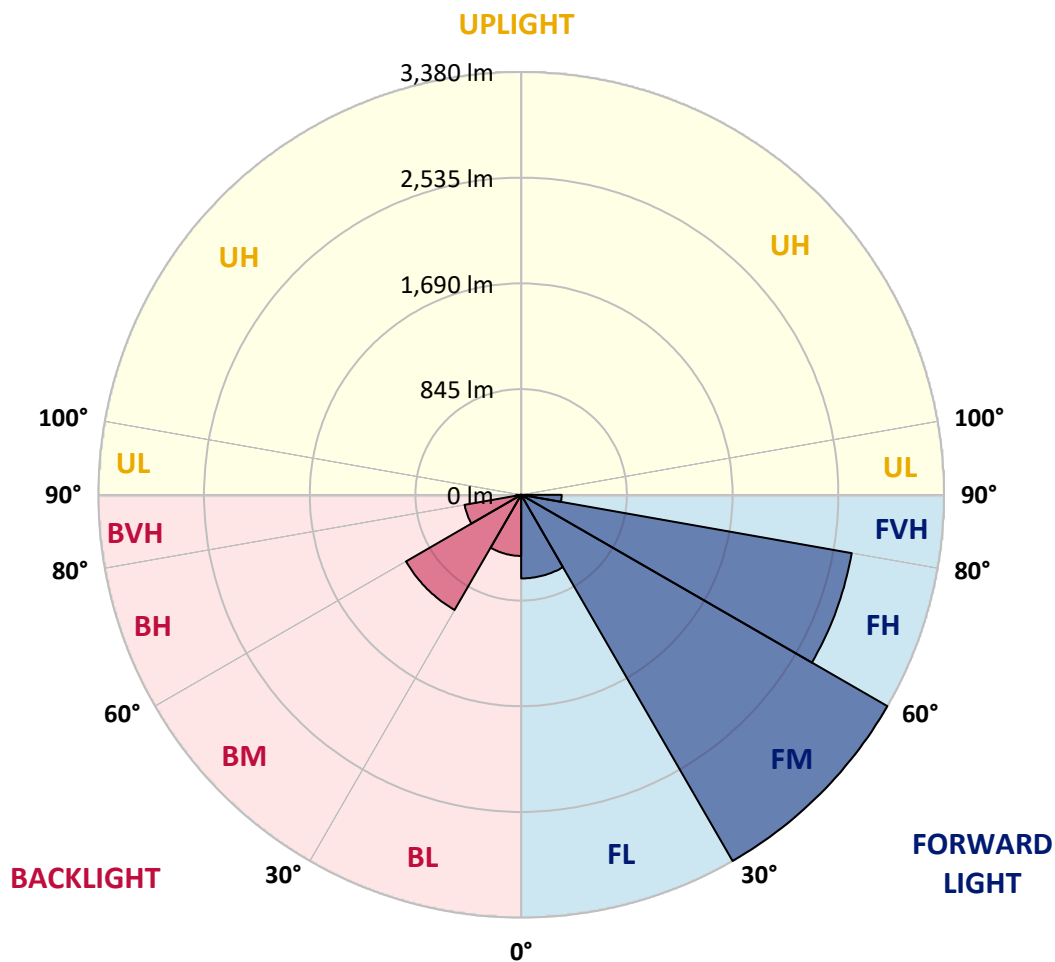
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	668.5	7.3			
FM	(30°-60°)	3380.0	37.1			
FH	(60°-80°)	2683.3	29.5			G2/5000
FVH	(80°-90°)	323.3	3.6			G3/500
BL	(0°-30°)	488.4	5.4	B1/500		
BM	(30°-60°)	1063.2	11.7	B2/2500		
BH	(60°-80°)	459.2	5.0	B1/500		G1/500
BVH	(80°-90°)	39.5	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°	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4
2.5°	1199.5	1127.6	1129.0	1126.9	1126.9	1125.6	1126.9	1125.6	1124.2	1124.2	1124.9
5°	1215.0	1135.8	1135.8	1133.7	1132.4	1131.0	1132.4	1131.0	1130.3	1129.0	1129.7
7.5°	1230.0	1140.5	1137.8	1135.1	1131.7	1133.0	1133.0	1132.4	1133.0	1132.4	1133.7
10°	1254.3	1156.1	1149.3	1143.2	1142.5	1141.2	1141.2	1139.1	1139.1	1137.8	1138.5
12.5°	1316.7	1204.2	1196.7	1185.9	1183.9	1177.8	1174.4	1170.3	1163.5	1157.4	1152.7
15°	1421.7	1284.2	1269.9	1260.4	1256.4	1244.2	1225.2	1210.3	1190.6	1173.7	1156.1
17.5°	1550.5	1391.2	1374.3	1362.1	1341.8	1308.6	1276.7	1240.1	1202.2	1167.6	1135.8
20°	1730.7	1545.1	1511.9	1482.7	1431.9	1375.0	1315.3	1251.6	1193.4	1139.1	1092.4
22.5°	1974.7	1743.6	1682.0	1604.0	1509.8	1413.6	1318.7	1230.6	1152.7	1082.2	1019.9
25°	2255.3	1933.4	1822.2	1688.1	1543.7	1410.9	1286.2	1173.0	1082.2	991.4	923.7
27.5°	2461.9	2091.9	1927.9	1751.8	1567.4	1398.0	1244.9	1108.0	998.2	905.4	823.4
30°	2579.9	2182.7	1985.5	1778.9	1571.5	1376.3	1192.7	1034.1	907.4	796.9	718.3
32.5°	2655.8	2231.5	1991.6	1751.8	1522.7	1312.0	1113.4	948.7	811.2	693.2	609.9
35°	2719.5	2251.2	1963.2	1691.4	1430.5	1214.4	1011.7	847.1	701.4	593.0	507.6
37.5°	2745.2	2247.8	1917.8	1610.8	1340.4	1108.0	908.1	739.3	609.2	513.7	440.5
40°	2740.5	2216.6	1856.1	1524.7	1234.7	996.8	798.3	649.9	544.2	463.5	410.0
42.5°	2708.6	2175.3	1787.7	1437.3	1137.8	904.7	723.7	592.3	506.9	445.9	399.1
45°	2668.6	2125.8	1725.3	1357.4	1061.2	838.9	680.4	576.0	502.1	443.9	393.7
47.5°	2614.4	2070.9	1662.3	1300.4	1020.6	819.3	679.7	585.5	506.2	439.1	384.2
50°	2555.5	2030.9	1627.7	1276.0	1015.8	831.5	703.4	600.4	508.9	434.4	371.4
52.5°	2514.1	2013.3	1627.1	1284.8	1040.9	865.4	731.2	619.4	519.1	437.1	368.6
55°	2463.3	2010.6	1644.7	1322.8	1095.8	923.0	775.2	651.9	540.1	447.3	370.7
57.5°	2466.7	2064.2	1713.1	1416.3	1194.7	1000.9	831.5	691.9	560.4	453.4	367.3
60°	2573.8	2188.8	1848.0	1576.2	1324.1	1092.4	889.1	713.6	559.1	439.8	351.0
62.5°	2794.7	2375.9	2049.9	1764.0	1455.6	1162.9	910.1	707.5	538.7	410.7	324.6
65°	3058.3	2594.8	2246.4	1909.6	1535.6	1179.1	891.8	673.6	498.1	372.7	292.7
67.5°	3321.9	2749.9	2359.6	1951.0	1503.1	1113.4	824.0	597.7	429.0	321.2	256.8
70°	3416.8	2781.8	2350.8	1858.1	1355.3	950.1	678.3	481.1	344.3	262.9	216.2
72.5°	3274.5	2582.6	2089.9	1578.9	1101.9	736.6	497.4	355.1	262.9	206.0	176.2
75°	2746.6	2079.7	1652.1	1189.3	795.6	521.1	359.2	258.9	197.9	163.3	141.0
77.5°	1957.8	1448.2	1125.6	781.3	516.4	361.2	257.5	194.5	157.2	130.8	114.5
80°	1230.0	889.1	685.8	468.9	321.9	245.3	185.0	153.8	126.7	106.4	95.6
82.5°	740.7	517.7	403.9	291.4	211.4	168.1	136.2	120.6	101.0	88.1	82.0
85°	502.8	380.8	265.0	172.1	127.4	98.9	92.8	83.4	75.2	63.0	61.0
87.5°	96.2	136.2	118.6	70.5	46.8	40.0	35.2	33.9	30.5	24.4	27.8
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4
2.5°	1120.9	1119.5	1116.8	1116.8	1114.8	1110.7	1110.0	1107.3	1103.9	1104.6	1103.9
5°	1124.9	1122.2	1118.8	1117.5	1114.8	1110.7	1108.7	1105.3	1101.9	1101.9	1101.9
7.5°	1129.7	1126.3	1123.6	1118.8	1113.4	1109.3	1103.9	1099.8	1097.8	1097.1	1097.8
10°	1133.7	1131.7	1127.6	1120.9	1113.4	1105.3	1099.8	1094.4	1089.0	1089.7	1090.4
12.5°	1142.5	1135.8	1124.9	1114.8	1103.2	1093.1	1083.6	1076.8	1070.0	1070.0	1070.7
15°	1136.4	1116.8	1101.9	1082.2	1069.3	1053.1	1042.2	1036.1	1032.1	1030.7	1031.4
17.5°	1100.5	1076.8	1054.4	1036.8	1019.2	1006.3	1001.6	997.5	992.1	994.8	992.1
20°	1046.3	1017.2	985.3	964.3	943.3	934.5	926.4	922.3	918.9	931.1	931.1
22.5°	968.4	933.1	900.6	874.9	851.1	841.7	833.5	828.8	830.8	845.7	847.1
25°	870.1	827.4	784.7	769.1	745.4	738.0	733.2	732.6	734.6	749.5	752.9
27.5°	765.8	721.0	684.4	648.5	637.7	631.6	622.8	632.9	635.0	651.2	658.0
30°	654.6	606.5	567.9	544.2	521.1	524.5	517.1	529.3	534.7	551.6	557.0
32.5°	540.8	495.4	456.7	433.0	416.8	418.8	413.4	424.2	429.6	450.0	460.1
35°	447.3	408.6	377.5	357.1	349.7	342.2	340.9	342.2	347.6	363.2	381.5
37.5°	393.7	361.9	339.5	324.6	314.4	309.7	307.0	307.0	307.0	310.4	319.2
40°	370.7	342.2	322.6	308.3	301.6	298.8	296.8	294.8	291.4	290.0	290.7
42.5°	360.5	328.0	307.0	296.1	292.1	292.1	292.1	290.7	287.3	283.9	280.6
45°	350.4	315.1	294.1	286.7	284.6	285.3	285.3	285.3	282.6	278.5	272.4
47.5°	337.5	300.9	279.9	275.1	275.1	277.2	277.8	277.8	275.1	271.1	266.3
50°	321.9	282.6	263.6	259.5	257.5	257.5	257.5	257.5	255.5	252.8	249.4
52.5°	313.8	272.4	252.8	248.7	248.7	246.7	246.0	244.0	241.9	239.9	235.1
55°	311.0	268.4	248.0	244.6	244.6	242.6	240.6	238.5	235.1	231.8	227.0
57.5°	303.6	259.5	241.9	239.2	239.2	237.9	235.8	233.8	230.4	225.7	219.6
60°	286.7	244.6	229.7	229.0	229.0	228.4	227.0	227.0	223.6	218.9	211.4
62.5°	265.0	229.0	214.8	214.8	214.1	213.5	210.8	210.1	206.0	199.9	193.1
65°	244.0	215.5	206.0	203.3	201.9	199.9	198.6	195.2	191.8	186.4	179.6
67.5°	217.5	195.2	189.1	186.4	183.6	181.6	179.6	177.5	173.5	169.4	164.0
70°	189.1	172.8	169.4	168.7	165.3	163.3	162.6	160.6	156.5	152.5	145.7
72.5°	162.0	152.5	149.8	149.8	145.7	143.0	141.6	141.0	138.2	134.9	128.8
75°	130.8	124.0	123.3	126.7	126.7	124.7	123.3	124.7	120.6	118.6	112.5
77.5°	107.1	103.7	101.6	103.0	107.1	105.0	102.3	102.3	102.3	98.9	96.9
80°	90.8	88.1	86.1	87.4	86.7	86.1	84.7	82.0	82.0	82.0	81.3
82.5°	82.0	81.3	73.9	73.9	71.2	69.1	67.8	66.4	65.1	65.1	68.4
85°	61.7	63.7	59.6	59.0	55.6	52.9	50.1	48.8	47.4	49.5	56.2
87.5°	29.8	29.8	28.5	31.9	29.1	27.8	25.8	24.4	25.8	31.9	37.9
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4
2.5°	1102.6	1101.9	1101.2	1099.8	1097.1	1096.5	1095.1	1095.1	1094.4	1093.1	1094.4
5°	1100.5	1101.9	1101.9	1101.2	1099.2	1100.5	1100.5	1102.6	1102.6	1103.9	1107.3
7.5°	1097.8	1101.2	1103.9	1105.9	1108.7	1110.7	1114.8	1120.9	1123.6	1128.3	1130.3
10°	1092.4	1098.5	1103.2	1109.3	1116.1	1123.6	1129.7	1139.1	1142.5	1149.3	1152.7
12.5°	1076.8	1087.0	1095.1	1107.3	1118.8	1130.3	1141.2	1153.4	1159.5	1166.9	1171.7
15°	1038.9	1050.4	1061.9	1072.7	1093.1	1115.4	1133.0	1149.3	1158.1	1167.6	1172.4
17.5°	993.5	1000.9	1010.4	1024.6	1044.3	1063.9	1092.4	1115.4	1129.0	1139.8	1141.2
20°	940.6	951.4	958.2	963.6	979.2	992.8	1023.3	1049.7	1067.3	1080.2	1083.6
22.5°	860.0	871.5	883.0	887.1	899.3	916.9	933.8	962.3	987.4	1006.3	1017.8
25°	767.8	778.6	794.2	806.4	809.1	823.4	840.3	872.8	898.6	929.1	942.6
27.5°	675.6	685.1	702.1	708.8	717.0	731.2	744.7	771.9	799.0	834.2	849.1
30°	567.9	588.2	607.9	620.7	627.5	644.5	653.9	680.4	705.4	731.2	752.9
32.5°	475.7	494.0	516.4	532.6	540.8	553.6	568.6	590.9	610.6	635.6	660.7
35°	391.0	416.1	431.0	445.2	466.2	472.3	487.2	507.6	519.1	546.2	574.7
37.5°	331.4	346.3	361.2	375.4	393.0	401.2	415.4	432.3	445.9	462.2	487.9
40°	294.8	302.9	313.8	323.2	336.1	346.3	353.7	368.0	378.1	394.4	412.7
42.5°	277.8	279.9	281.2	288.0	294.8	301.6	309.7	315.8	328.0	340.2	351.7
45°	268.4	264.3	262.3	262.9	265.6	269.7	276.5	283.3	291.4	298.8	305.6
47.5°	260.2	254.8	248.7	245.3	246.0	247.3	252.8	258.2	262.3	268.4	271.1
50°	241.2	236.5	231.1	226.3	227.0	227.7	232.4	236.5	239.2	241.2	244.6
52.5°	229.0	222.3	217.5	212.8	212.1	214.1	218.2	222.3	223.6	225.0	225.7
55°	220.2	213.5	207.4	202.6	200.6	205.3	206.7	212.1	214.1	214.1	214.8
57.5°	213.5	205.3	199.2	194.5	191.1	194.5	197.9	204.0	204.7	203.3	203.3
60°	203.3	197.2	191.1	186.4	183.0	185.7	188.4	195.2	195.2	191.8	191.1
62.5°	185.7	182.3	178.2	176.2	175.5	178.2	180.3	185.7	183.6	179.6	178.2
65°	172.8	170.1	166.0	164.7	164.0	168.1	168.7	172.1	169.4	167.4	166.7
67.5°	157.2	155.2	153.2	152.5	150.4	150.4	151.8	153.8	152.5	152.5	153.2
70°	139.6	136.9	134.9	135.5	134.2	134.2	134.9	136.2	135.5	136.9	138.2
72.5°	123.3	119.9	119.3	119.3	117.9	118.6	118.6	119.3	120.6	121.3	124.7
75°	107.7	104.4	104.4	103.7	103.7	103.7	104.4	105.7	107.1	107.7	109.1
77.5°	93.5	91.5	92.2	91.5	91.5	91.5	91.5	93.5	94.2	94.9	96.9
80°	80.6	80.6	81.3	81.3	80.6	80.0	80.6	82.0	82.7	83.4	84.0
82.5°	73.2	73.9	73.9	73.9	70.5	69.1	71.2	72.5	73.9	74.5	75.9
85°	63.0	60.3	63.0	62.3	57.6	56.9	56.9	57.6	59.0	57.6	57.6
87.5°	40.7	36.6	38.6	38.6	33.9	27.8	35.2	37.9	33.9	35.9	35.9
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°	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4
2.5°	1096.5	1095.1	1095.8	1095.8	1097.1	1095.1	1097.8	1100.5	1101.2	1101.2	1101.9
5°	1110.7	1109.3	1114.1	1112.0	1116.8	1116.1	1119.5	1122.2	1123.6	1123.6	1123.6
7.5°	1133.0	1137.8	1140.5	1148.0	1148.6	1152.7	1156.1	1159.5	1158.1	1158.8	1158.1
10°	1158.1	1164.2	1171.0	1178.5	1179.1	1183.9	1189.3	1192.7	1191.3	1190.6	1188.6
12.5°	1179.8	1183.9	1192.0	1199.5	1203.5	1211.0	1216.4	1219.1	1219.1	1217.1	1215.0
15°	1178.5	1184.6	1193.4	1204.2	1211.7	1222.5	1232.0	1238.1	1238.8	1236.7	1236.1
17.5°	1148.6	1157.4	1165.6	1180.5	1194.0	1208.9	1224.5	1233.3	1241.5	1246.2	1248.9
20°	1095.1	1105.9	1117.5	1137.1	1155.4	1175.1	1193.4	1206.2	1218.4	1232.7	1249.6
22.5°	1032.1	1048.3	1064.6	1089.7	1112.0	1134.4	1155.4	1171.0	1190.0	1214.4	1246.2
25°	958.2	975.2	995.5	1024.6	1053.1	1085.6	1116.8	1148.0	1184.6	1226.6	1276.0
27.5°	870.8	889.8	916.2	951.4	984.0	1017.2	1066.0	1115.4	1175.1	1229.3	1285.5
30°	784.1	808.4	836.9	872.1	904.7	952.1	1000.9	1061.9	1124.9	1185.9	1253.0
32.5°	690.5	721.0	756.3	785.4	822.0	870.1	918.9	984.0	1051.1	1122.9	1196.7
35°	600.4	629.5	657.3	689.9	726.5	771.9	819.3	881.6	966.3	1042.9	1131.0
37.5°	508.9	536.0	555.7	581.4	613.3	663.4	714.3	786.1	866.1	960.2	1048.3
40°	429.0	451.3	473.7	494.0	521.1	568.6	622.8	693.2	771.9	863.3	961.6
42.5°	365.3	382.2	406.6	431.0	454.0	494.7	545.5	614.6	692.6	786.1	884.3
45°	311.7	323.2	342.9	363.2	391.7	425.6	474.4	544.8	624.1	718.3	822.0
47.5°	273.1	278.5	292.1	313.1	339.5	372.7	414.7	478.4	555.7	650.6	759.7
50°	246.7	252.8	259.5	277.2	300.9	334.8	369.3	424.9	495.4	588.2	696.6
52.5°	228.4	231.1	233.8	244.6	266.3	294.8	331.4	373.4	444.5	533.3	630.9
55°	217.5	218.2	220.2	225.7	241.9	268.4	300.2	340.2	395.8	479.8	579.4
57.5°	204.7	206.0	208.0	211.4	221.6	245.3	272.4	304.9	351.0	421.5	517.1
60°	192.5	195.8	199.2	201.3	206.7	220.9	244.0	269.7	307.0	359.8	435.7
62.5°	179.6	183.6	186.4	188.4	190.4	199.2	216.2	233.1	256.2	290.7	347.6
65°	168.1	170.8	172.8	174.2	175.5	178.2	185.7	192.5	199.2	220.2	261.6
67.5°	155.2	156.5	157.2	157.9	157.2	157.2	157.9	160.6	163.3	171.4	191.1
70°	140.3	142.3	142.3	143.0	143.0	141.0	141.0	141.0	141.0	143.0	153.8
72.5°	126.0	128.8	128.8	129.4	128.8	128.1	128.1	128.1	130.1	131.5	135.5
75°	112.5	115.2	114.5	115.2	115.9	115.9	117.2	117.9	119.9	120.6	123.3
77.5°	98.9	101.0	101.6	101.0	102.3	103.7	106.4	107.7	108.4	109.1	109.8
80°	86.1	87.4	86.7	84.7	88.1	90.1	94.2	98.9	97.6	98.3	99.6
82.5°	71.2	69.1	67.8	69.1	71.2	73.9	77.9	84.0	84.7	88.1	87.4
85°	54.9	48.8	48.1	51.5	50.8	54.2	61.0	65.7	69.8	73.2	69.8
87.5°	32.5	29.1	24.4	23.0	25.1	33.2	34.6	42.0	45.4	46.8	42.0
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: P159106

CATALOG NUMBER: VST-F04-LED-E-U-SLR-7050

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4
2.5°	1163.5	1166.9	1166.9	1168.3	1170.3	1171.0	1173.7	1178.5	1179.1	1179.1	1181.2
5°	1185.2	1188.6	1188.6	1191.3	1192.0	1195.4	1198.8	1204.2	1206.9	1206.2	1215.0
7.5°	1220.5	1217.8	1215.7	1219.8	1221.8	1225.9	1232.7	1237.4	1242.2	1249.6	1261.8
10°	1250.3	1246.2	1244.2	1246.9	1248.3	1253.0	1257.1	1263.8	1275.4	1286.9	1301.8
12.5°	1274.7	1269.9	1264.5	1265.9	1267.9	1274.0	1280.8	1289.6	1306.5	1321.4	1343.8
15°	1295.0	1288.2	1282.8	1285.5	1290.3	1298.4	1309.9	1325.5	1353.3	1379.0	1408.9
17.5°	1314.7	1313.3	1311.3	1320.1	1323.5	1342.4	1359.4	1387.8	1425.8	1464.4	1507.1
20°	1333.6	1348.5	1356.0	1373.6	1384.5	1410.2	1436.0	1470.5	1518.6	1571.5	1629.8
22.5°	1360.1	1400.7	1425.8	1461.7	1480.0	1507.8	1545.7	1591.1	1644.7	1712.4	1787.0
25°	1423.1	1482.7	1532.9	1589.1	1635.2	1677.9	1723.3	1778.2	1855.4	1917.1	2014.7
27.5°	1450.9	1534.9	1610.1	1689.4	1758.5	1824.3	1896.1	1962.5	2054.0	2137.3	2255.3
30°	1424.4	1519.3	1616.9	1720.6	1821.6	1921.2	2025.5	2127.2	2232.9	2349.4	2474.8
32.5°	1375.7	1482.0	1591.8	1713.8	1839.2	1968.6	2104.1	2251.9	2401.0	2546.0	2674.0
35°	1326.2	1440.7	1562.7	1702.3	1850.0	2010.6	2178.7	2365.7	2562.9	2746.6	2913.9
37.5°	1254.3	1380.4	1520.0	1681.3	1856.8	2054.7	2270.8	2501.2	2750.6	3003.4	3223.0
40°	1167.6	1301.1	1453.6	1639.3	1850.0	2100.1	2381.3	2676.8	2997.3	3305.6	3575.3
42.5°	1088.3	1218.4	1381.1	1583.0	1832.4	2140.1	2486.3	2854.3	3233.8	3578.7	3931.1
45°	1018.5	1162.2	1325.5	1543.7	1823.6	2173.9	2564.3	2987.1	3421.5	3832.2	4248.3
47.5°	954.8	1103.9	1286.9	1522.0	1819.5	2194.3	2618.5	3073.9	3555.0	4026.7	4509.8
50°	889.1	1034.1	1230.0	1498.3	1809.4	2193.6	2646.9	3132.8	3648.5	4177.8	4690.1
52.5°	818.6	964.3	1160.8	1454.9	1787.7	2181.4	2654.4	3172.8	3722.4	4270.6	4843.2
55°	754.2	890.4	1087.0	1382.4	1742.3	2151.6	2637.5	3189.7	3774.6	4362.8	4951.0
57.5°	680.4	822.0	1009.0	1282.8	1656.9	2098.7	2589.3	3166.0	3789.5	4424.4	5036.4
60°	578.7	717.6	910.1	1164.9	1523.4	1986.9	2499.9	3094.2	3742.0	4435.3	5097.4
62.5°	462.2	582.1	767.8	1002.3	1335.7	1811.4	2334.5	2932.9	3594.3	4333.6	5066.2
65°	343.6	423.5	583.5	789.5	1118.1	1547.1	2068.2	2662.5	3305.6	4051.1	4870.3
67.5°	239.2	296.8	395.1	548.2	813.2	1194.7	1688.1	2240.3	2859.0	3527.9	4463.7
70°	180.9	207.4	260.9	346.3	526.5	813.9	1227.2	1719.2	2293.2	2937.7	3819.3
72.5°	154.5	168.1	197.9	237.2	322.6	494.7	770.5	1183.2	1692.1	2216.6	2930.2
75°	138.9	150.4	169.4	194.5	228.4	300.2	452.0	748.8	1120.9	1484.8	2044.5
77.5°	126.0	136.2	153.2	166.0	184.3	216.2	288.0	447.9	671.6	917.6	1268.6
80°	112.5	118.6	134.2	147.1	161.3	179.6	206.7	281.2	385.6	543.5	748.1
82.5°	96.2	101.0	112.5	130.1	141.0	148.4	156.5	186.4	231.1	294.8	415.4
85°	74.5	77.9	88.1	101.0	105.7	106.4	107.7	115.9	143.7	220.9	357.8
87.5°	37.9	42.0	52.9	56.9	48.1	52.2	52.9	56.2	74.5	121.3	123.3
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: P159106  
 CATALOG NUMBER: VST-F04-LED-E-U-SLR-7050

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	0°
2.5°	1181.2	1183.2	1187.9	1187.3	1190.6	1190.6	1190.6	1194.0	1192.0	1194.0	1197.4	2.5°
5°	1215.0	1218.4	1225.2	1225.2	1225.9	1223.9	1227.9	1230.6	1227.2	1225.9	1226.6	5°
7.5°	1264.5	1269.9	1275.4	1280.8	1284.8	1282.8	1283.5	1277.4	1276.0	1271.3	1265.2	7.5°
10°	1312.6	1327.5	1337.7	1347.2	1347.9	1345.8	1346.5	1336.3	1334.3	1324.8	1318.7	10°
12.5°	1362.1	1381.1	1397.3	1407.5	1413.6	1415.0	1415.6	1415.6	1406.1	1398.0	1383.8	12.5°
15°	1435.3	1468.5	1493.6	1504.4	1513.2	1521.3	1523.4	1526.1	1518.6	1507.8	1505.8	15°
17.5°	1551.2	1582.3	1615.5	1644.7	1664.3	1665.7	1682.6	1681.3	1696.9	1684.7	1681.3	17.5°
20°	1688.7	1756.5	1791.1	1829.7	1852.0	1862.9	1902.2	1890.0	1901.5	1921.2	1901.5	20°
22.5°	1860.9	1946.9	1997.1	2049.9	2086.5	2112.9	2141.4	2163.8	2194.9	2209.9	2196.3	22.5°
25°	2089.2	2187.5	2247.1	2320.3	2378.6	2426.0	2475.5	2535.1	2534.5	2570.4	2595.4	25°
27.5°	2351.5	2476.8	2563.6	2692.3	2742.5	2822.5	2907.2	2999.3	3015.6	3062.3	3086.1	27.5°
30°	2598.2	2753.3	2925.5	3078.6	3252.1	3370.7	3468.9	3534.0	3632.3	3607.9	3594.3	30°
32.5°	2825.8	3032.5	3277.8	3529.3	3804.4	3992.1	4165.6	4246.2	4307.2	4177.8	4006.3	32.5°
35°	3121.3	3368.7	3649.2	3959.6	4309.2	4575.6	4754.5	4779.5	4745.0	4579.0	4295.0	35°
37.5°	3487.2	3746.8	4066.0	4394.0	4765.3	5015.4	5219.3	5255.9	5164.5	4868.3	4570.1	37.5°
40°	3848.4	4152.7	4499.0	4887.3	5272.2	5547.3	5752.0	5762.8	5613.7	5267.5	4918.5	40°
42.5°	4243.5	4576.2	4961.8	5392.1	5789.9	6068.4	6216.2	6262.9	6052.2	5608.3	5273.6	42.5°
45°	4584.4	4982.2	5411.8	5869.2	6285.3	6549.6	6700.0	6685.1	6430.3	5991.9	5599.5	45°
47.5°	4916.4	5354.2	5806.9	6292.8	6706.1	6973.1	7127.6	7114.1	6790.8	6286.0	5854.3	47.5°
50°	5211.9	5686.9	6170.8	6689.9	7101.9	7346.5	7535.6	7476.0	7067.3	6522.5	6018.3	50°
52.5°	5417.2	5947.1	6452.7	7013.8	7438.0	7669.8	7910.3	7718.6	7230.6	6667.5	6106.4	52.5°
55°	5547.3	6126.1	6653.3	7274.0	7690.8	7967.9	8123.1	7850.7	7293.7	6707.5	6136.9	55°
57.5°	5635.4	6224.3	6771.2	7424.4	7918.5	8150.9	8188.8	7855.4	7253.0	6644.5	6106.4	57.5°
60°	5678.8	6253.5	6824.7	7530.2	8078.4	8205.8	8136.7	7745.7	7112.7	6459.5	5909.9	60°
62.5°	5674.1	6216.9	6796.9	7565.4	8110.2	8126.5	7969.3	7558.6	6854.5	6071.2	5583.2	62.5°
65°	5553.4	6083.4	6640.4	7434.6	7961.8	7892.0	7694.2	7207.6	6352.4	5564.3	5317.6	65°
67.5°	5205.8	5714.0	6231.1	7006.3	7543.7	7476.0	7176.4	6517.7	5768.9	5115.7	4982.8	67.5°
70°	4624.4	5055.3	5509.4	6190.4	6754.2	6662.8	6138.9	5738.4	5190.9	4597.2	4551.2	70°
72.5°	3866.1	4192.7	4522.0	5028.9	5417.2	5230.2	4900.8	4879.8	4437.3	3984.0	3993.5	72.5°
75°	3023.7	3269.0	3422.9	3721.0	3979.2	3811.8	3831.5	3948.1	3802.4	3445.2	3329.3	75°
77.5°	2190.9	2426.0	2474.8	2651.7	2833.3	3023.7	3275.8	3550.3	3596.3	3395.8	2975.6	77.5°
80°	1433.9	1692.8	1596.6	1659.6	1915.1	2262.7	2722.8	3174.8	3330.0	3149.8	2632.7	80°
82.5°	845.7	1208.3	1055.1	1162.9	1324.8	1627.7	1945.6	2286.4	2546.0	2354.2	2199.0	82.5°
85°	642.4	952.8	1009.0	1139.8	1192.7	1205.6	1261.1	1372.3	1506.4	1556.6	1552.5	85°
87.5°	334.8	740.7	831.5	769.1	717.6	622.1	485.2	522.5	477.8	653.3	618.7	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°
1132.4	1132.4	1132.4	1132.4	1132.4	1132.4	1132.4
1198.1	1196.1	1197.4	1198.1	1198.1	1198.1	1199.5
1225.9	1220.5	1218.4	1218.4	1217.8	1215.7	1215.0
1255.7	1246.2	1242.8	1238.8	1235.4	1233.3	1230.0
1309.2	1301.1	1284.2	1274.7	1265.9	1259.8	1254.3
1381.1	1369.6	1353.3	1341.1	1327.5	1323.5	1316.7
1492.2	1482.0	1467.8	1454.3	1446.1	1431.9	1421.7
1665.7	1645.4	1631.1	1613.5	1593.9	1564.7	1550.5
1894.1	1853.4	1824.9	1809.4	1770.0	1765.3	1730.7
2156.3	2144.1	2100.7	2081.8	2043.8	2028.9	1974.7
2548.7	2539.2	2450.4	2440.9	2382.7	2339.3	2255.3
3064.4	2986.4	2886.2	2816.4	2716.7	2604.9	2461.9
3515.0	3355.8	3202.6	3040.0	2902.4	2741.8	2579.9
3802.4	3588.9	3391.7	3225.0	3054.9	2863.8	2655.8
4054.4	3838.9	3624.1	3426.9	3220.9	2976.3	2719.5
4356.0	4141.9	3899.9	3622.8	3358.5	3059.0	2745.2
4665.0	4414.3	4112.0	3772.5	3440.5	3099.6	2740.5
4981.5	4660.9	4259.1	3872.2	3492.7	3105.7	2708.6
5238.3	4833.1	4368.2	3923.0	3503.5	3084.7	2668.6
5419.9	4943.5	4417.0	3940.6	3490.0	3051.5	2614.4
5523.6	5003.8	4429.2	3927.7	3462.2	3004.1	2555.5
5561.6	5022.1	4417.0	3901.3	3437.1	2953.2	2514.1
5557.5	5012.0	4372.3	3839.6	3370.0	2885.5	2463.3
5480.9	4917.8	4280.8	3765.8	3313.1	2854.3	2466.7
5350.8	4858.1	4253.7	3780.7	3342.9	2921.4	2573.8
5291.9	4977.4	4406.1	3929.8	3496.1	3113.2	2794.7
5258.6	5171.2	4624.4	4090.4	3677.7	3345.6	3058.3
5123.1	5226.8	4748.4	4181.8	3839.6	3578.7	3321.9
4904.2	5097.4	4654.2	4164.2	3929.1	3757.6	3416.8
4447.5	4651.5	4234.7	3904.7	3817.3	3760.3	3274.5
3603.1	3708.8	3471.7	3397.1	3429.6	3430.3	2746.6
2657.1	2593.4	2486.3	2491.8	2710.6	2676.8	1957.8
2169.2	1775.5	1623.7	1681.3	1951.7	1806.0	1230.0
2018.8	1583.7	1307.2	1320.8	1473.9	1163.5	740.7
1632.5	1443.4	1157.4	1038.9	1008.4	775.2	502.8
683.1	628.2	467.6	421.5	345.6	211.4	96.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)