

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: P159103

Luminaire Tested: **VST-F04-LED-E-U-SLR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159103
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7489.3 lumens
Efficiency: N/A
Efficacy: 73.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - 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



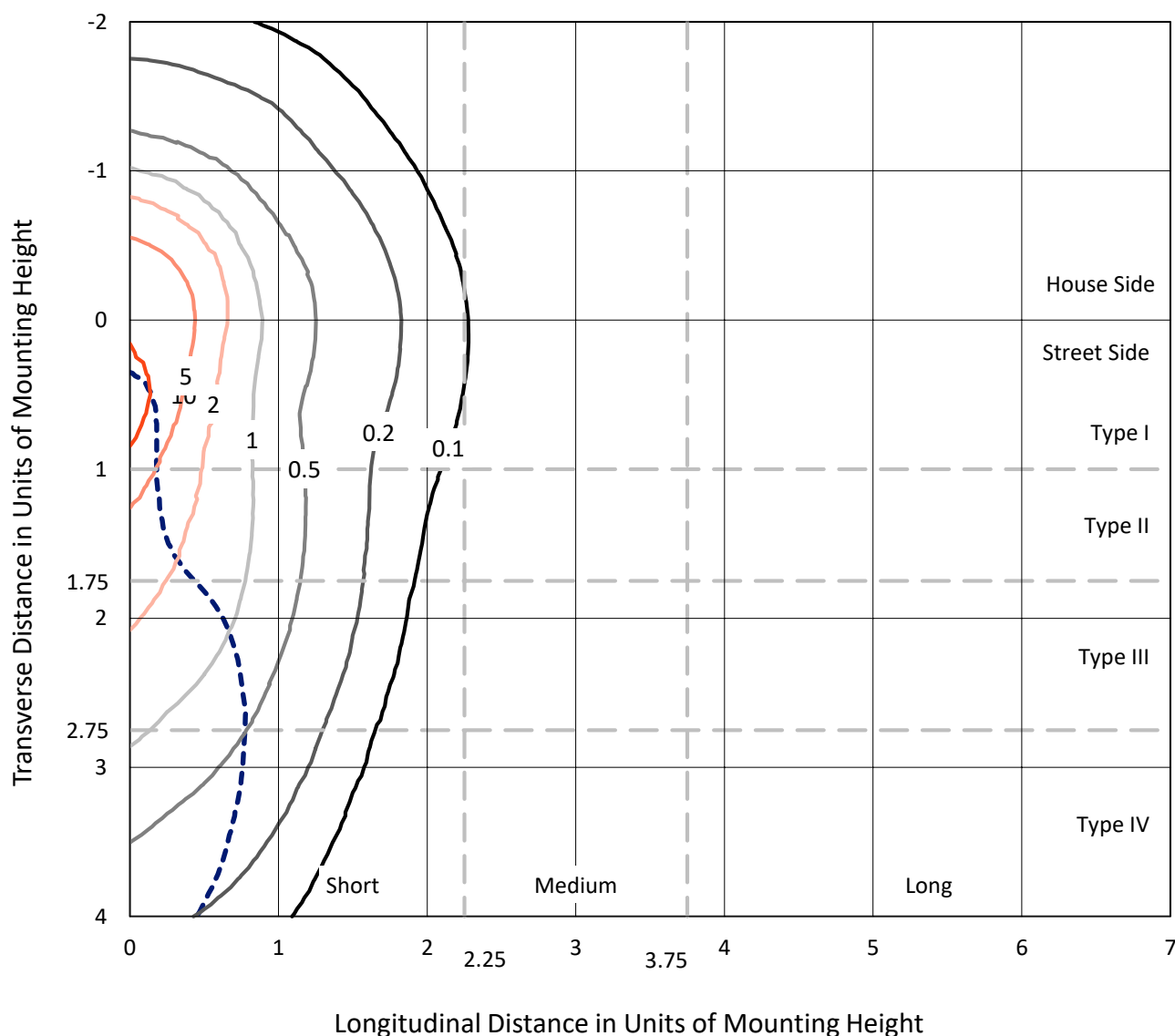
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

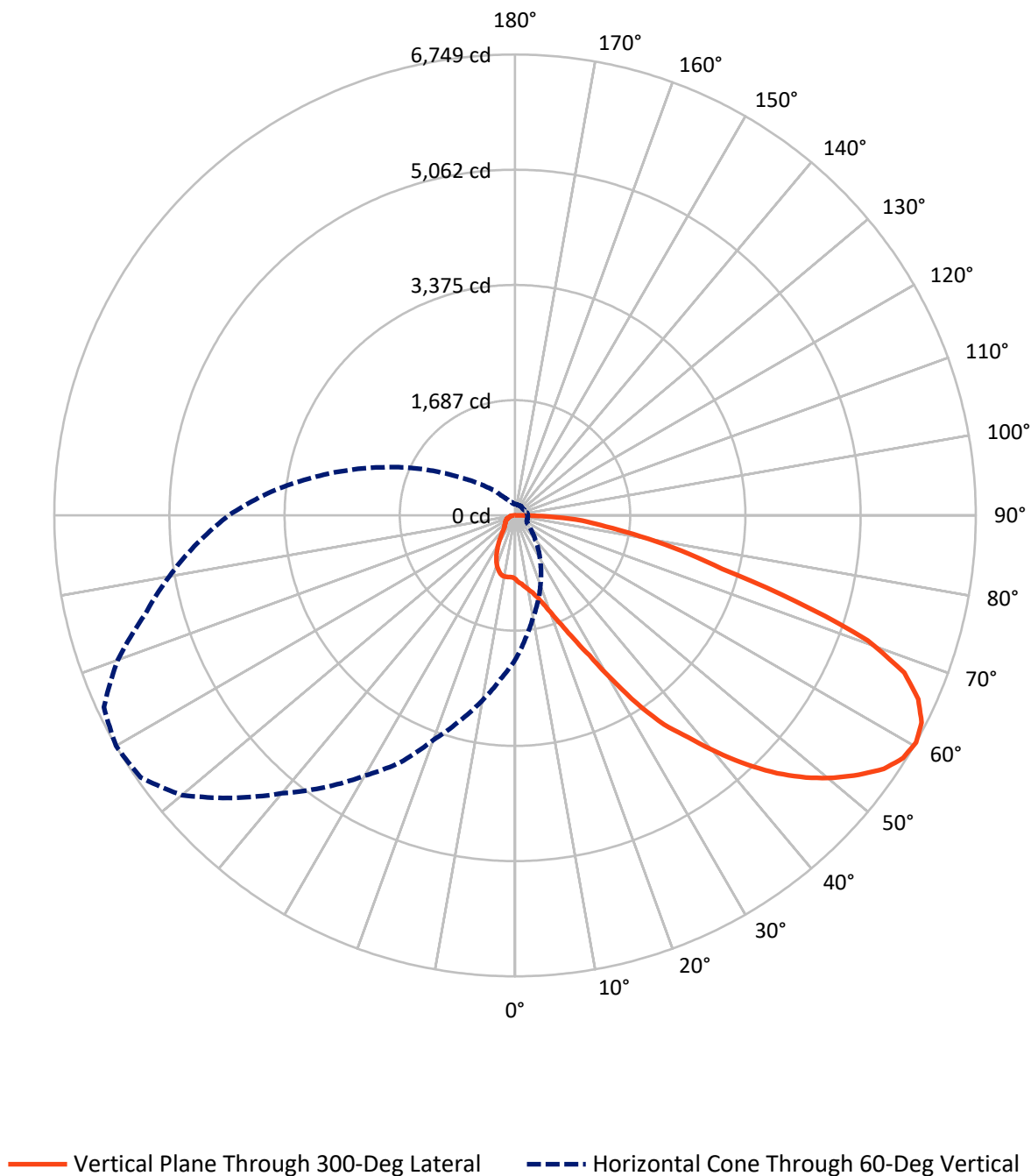


Based on 10 foot mounting height. Maximum calculated value = 14 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1686.4	0.0	1686.4
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	5802.9	0.0	5802.9
	% Fixture	77.5	0.0	77.5
Total	Lumens	7489.3	0.0	7489.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	91.9	1.2
10°-20°	296.7	4.0
20°-30°	563.0	7.5
30°-40°	886.6	11.8
40°-50°	1237.5	16.5
50°-60°	1530.5	20.4
60°-70°	1586.4	21.2
70°-80°	998.2	13.3
80°-90°	298.4	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°	7489.3	100.0
0°-180°	7489.3	100.0

Coefficient of Utilization



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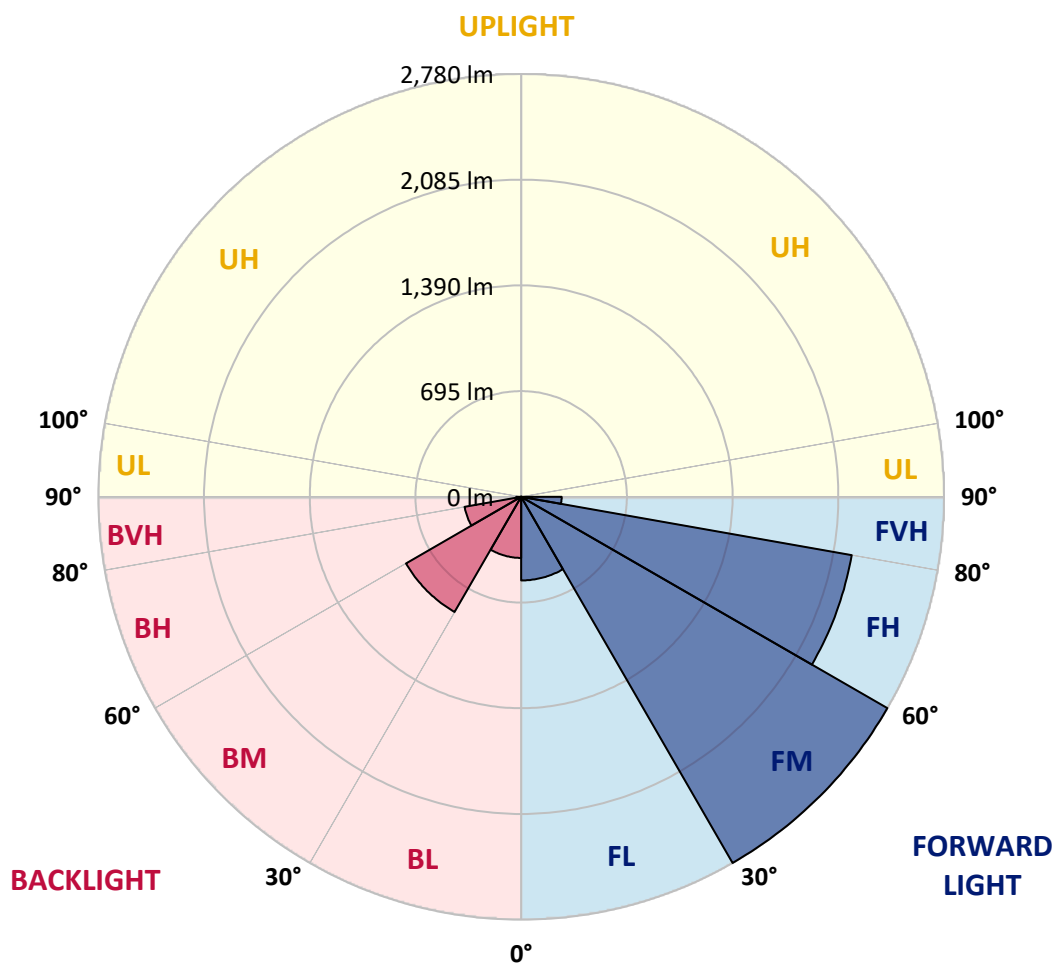
CATALOG NUMBER: VST-F04-LED-E-U-SLR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	549.8	7.3			
FM	(30°-60°)	2780.1	37.1			
FH	(60°-80°)	2207.0	29.5			G2/5000
FVH	(80°-90°)	265.9	3.6			G3/500
BL	(0°-30°)	401.8	5.4	B1/500		
BM	(30°-60°)	874.5	11.7	B1/1000		
BH	(60°-80°)	377.7	5.0	B1/500		G1/500
BVH	(80°-90°)	32.5	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	986.6	927.5	928.6	926.9	926.9	925.8	926.9	925.8	924.7	924.7	925.3
5°	999.4	934.2	934.2	932.5	931.4	930.3	931.4	930.3	929.7	928.6	929.2
7.5°	1011.7	938.1	935.9	933.6	930.8	932.0	932.0	931.4	932.0	931.4	932.5
10°	1031.7	950.9	945.3	940.3	939.8	938.6	938.6	937.0	937.0	935.9	936.4
12.5°	1083.0	990.5	984.3	975.4	973.8	968.7	966.0	962.6	957.0	952.0	948.1
15°	1169.4	1056.3	1044.5	1036.7	1033.4	1023.4	1007.8	995.5	979.3	965.4	950.9
17.5°	1275.3	1144.3	1130.4	1120.4	1103.6	1076.3	1050.1	1020.0	988.8	960.4	934.2
20°	1423.6	1270.8	1243.5	1219.6	1177.8	1130.9	1081.9	1029.5	981.6	937.0	898.5
22.5°	1624.2	1434.2	1383.4	1319.3	1241.9	1162.7	1084.7	1012.2	948.1	890.1	838.9
25°	1855.0	1590.2	1498.8	1388.5	1269.7	1160.5	1057.9	964.8	890.1	815.5	759.7
27.5°	2025.0	1720.7	1585.8	1440.8	1289.2	1149.9	1023.9	911.3	821.0	744.7	677.2
30°	2122.0	1795.3	1633.1	1463.1	1292.6	1132.1	981.0	850.6	746.3	655.5	590.8
32.5°	2184.4	1835.5	1638.2	1440.8	1252.5	1079.1	915.8	780.3	667.2	570.2	501.6
35°	2236.8	1851.6	1614.8	1391.2	1176.6	998.8	832.2	696.7	576.9	487.7	417.5
37.5°	2258.0	1848.9	1577.4	1324.9	1102.5	911.3	746.9	608.1	501.1	422.5	362.3
40°	2254.1	1823.2	1526.7	1254.1	1015.6	819.9	656.6	534.5	447.6	381.3	337.2
42.5°	2227.9	1789.2	1470.4	1182.2	935.9	744.1	595.3	487.2	416.9	366.8	328.3
45°	2195.0	1748.5	1419.1	1116.4	872.9	690.0	559.6	473.8	413.0	365.1	323.8
47.5°	2150.4	1703.4	1367.3	1069.6	839.4	673.9	559.1	481.6	416.4	361.2	316.0
50°	2101.9	1670.5	1338.8	1049.6	835.5	683.9	578.6	493.8	418.6	357.3	305.4
52.5°	2067.9	1656.0	1338.3	1056.8	856.1	711.8	601.4	509.5	427.0	359.5	303.2
55°	2026.1	1653.8	1352.8	1088.0	901.3	759.2	637.7	536.2	444.2	367.9	304.9
57.5°	2028.9	1697.8	1409.1	1164.9	982.7	823.3	683.9	569.1	461.0	372.9	302.1
60°	2117.0	1800.4	1520.0	1296.5	1089.1	898.5	731.3	586.9	459.8	361.7	288.7
62.5°	2298.7	1954.2	1686.1	1450.9	1197.3	956.5	748.6	581.9	443.1	337.8	267.0
65°	2515.5	2134.2	1847.7	1570.7	1263.0	969.9	733.5	554.0	409.7	306.6	240.8
67.5°	2732.3	2261.9	1940.8	1604.7	1236.3	915.8	677.8	491.6	352.8	264.2	211.3
70°	2810.4	2288.1	1933.6	1528.4	1114.8	781.5	557.9	395.7	283.2	216.3	177.8
72.5°	2693.3	2124.2	1719.0	1298.7	906.3	605.9	409.1	292.1	216.3	169.4	144.9
75°	2259.1	1710.6	1358.9	978.2	654.4	428.6	295.4	212.9	162.8	134.3	115.9
77.5°	1610.3	1191.1	925.8	642.7	424.7	297.1	211.8	160.0	129.3	107.6	94.2
80°	1011.7	731.3	564.1	385.7	264.8	201.8	152.2	126.5	104.2	87.5	78.6
82.5°	609.2	425.8	332.2	239.7	173.9	138.2	112.0	99.2	83.1	72.5	67.4
85°	413.6	313.3	217.9	141.6	104.8	81.4	76.4	68.6	61.9	51.8	50.2
87.5°	79.1	112.0	97.5	58.0	38.5	32.9	29.0	27.9	25.1	20.1	22.9
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	921.9	920.8	918.6	918.6	916.9	913.6	913.0	910.8	908.0	908.5	908.0
5°	925.3	923.0	920.2	919.1	916.9	913.6	911.9	909.1	906.3	906.3	906.3
7.5°	929.2	926.4	924.2	920.2	915.8	912.4	908.0	904.6	903.0	902.4	903.0
10°	932.5	930.8	927.5	921.9	915.8	909.1	904.6	900.2	895.7	896.3	896.8
12.5°	939.8	934.2	925.3	916.9	907.4	899.1	891.3	885.7	880.1	880.1	880.7
15°	934.7	918.6	906.3	890.1	879.6	866.2	857.3	852.2	848.9	847.8	848.3
17.5°	905.2	885.7	867.3	852.8	838.3	827.7	823.8	820.5	816.0	818.2	816.0
20°	860.6	836.6	810.4	793.2	775.9	768.6	761.9	758.6	755.8	765.9	765.9
22.5°	796.5	767.5	740.8	719.6	700.1	692.3	685.6	681.7	683.4	695.6	696.7
25°	715.7	680.6	645.5	632.6	613.1	607.0	603.1	602.5	604.2	616.5	619.3
27.5°	629.8	593.1	563.0	533.4	524.5	519.5	512.2	520.6	522.3	535.7	541.2
30°	538.4	498.9	467.1	447.6	428.6	431.4	425.3	435.3	439.8	453.7	458.2
32.5°	444.8	407.5	375.7	356.2	342.8	344.5	340.0	348.9	353.4	370.1	378.5
35°	367.9	336.1	310.5	293.7	287.6	281.5	280.4	281.5	285.9	298.8	313.8
37.5°	323.8	297.6	279.3	267.0	258.6	254.7	252.5	252.5	252.5	255.3	262.5
40°	304.9	281.5	265.3	253.6	248.0	245.8	244.1	242.5	239.7	238.6	239.1
42.5°	296.5	269.8	252.5	243.6	240.2	240.2	240.2	239.1	236.3	233.5	230.8
45°	288.2	259.2	241.9	235.8	234.1	234.7	234.7	234.7	232.4	229.1	224.1
47.5°	277.6	247.5	230.2	226.3	226.3	228.0	228.5	228.5	226.3	223.0	219.1
50°	264.8	232.4	216.8	213.5	211.8	211.8	211.8	211.8	210.1	207.9	205.1
52.5°	258.1	224.1	207.9	204.6	204.6	202.9	202.3	200.7	199.0	197.3	193.4
55°	255.8	220.7	204.0	201.2	201.2	199.5	197.9	196.2	193.4	190.6	186.7
57.5°	249.7	213.5	199.0	196.8	196.8	195.6	194.0	192.3	189.5	185.6	180.6
60°	235.8	201.2	189.0	188.4	188.4	187.8	186.7	186.7	183.9	180.0	173.9
62.5°	217.9	188.4	176.7	176.7	176.1	175.6	173.3	172.8	169.4	164.4	158.9
65°	200.7	177.2	169.4	167.2	166.1	164.4	163.3	160.5	157.7	153.3	147.7
67.5°	178.9	160.5	155.5	153.3	151.1	149.4	147.7	146.0	142.7	139.3	134.9
70°	155.5	142.1	139.3	138.8	136.0	134.3	133.8	132.1	128.8	125.4	119.8
72.5°	133.2	125.4	123.2	123.2	119.8	117.6	116.5	115.9	113.7	110.9	105.9
75°	107.6	102.0	101.4	104.2	104.2	102.6	101.4	102.6	99.2	97.5	92.5
77.5°	88.1	85.3	83.6	84.7	88.1	86.4	84.2	84.2	84.2	81.4	79.7
80°	74.7	72.5	70.8	71.9	71.3	70.8	69.7	67.4	67.4	67.4	66.9
82.5°	67.4	66.9	60.8	60.8	58.5	56.9	55.7	54.6	53.5	53.5	56.3
85°	50.7	52.4	49.1	48.5	45.7	43.5	41.2	40.1	39.0	40.7	46.3
87.5°	24.5	24.5	23.4	26.2	24.0	22.9	21.2	20.1	21.2	26.2	31.2
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°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	906.9	906.3	905.8	904.6	902.4	901.9	900.7	900.7	900.2	899.1	900.2
5°	905.2	906.3	906.3	905.8	904.1	905.2	905.2	906.9	906.9	908.0	910.8
7.5°	903.0	905.8	908.0	909.7	911.9	913.6	916.9	921.9	924.2	928.1	929.7
10°	898.5	903.5	907.4	912.4	918.0	924.2	929.2	937.0	939.8	945.3	948.1
12.5°	885.7	894.1	900.7	910.8	920.2	929.7	938.6	948.7	953.7	959.8	963.7
15°	854.5	864.0	873.4	882.3	899.1	917.5	932.0	945.3	952.6	960.4	964.3
17.5°	817.1	823.3	831.1	842.8	858.9	875.1	898.5	917.5	928.6	937.5	938.6
20°	773.7	782.6	788.1	792.6	805.4	816.6	841.7	863.4	877.9	888.5	891.3
22.5°	707.3	716.8	726.3	729.6	739.7	754.1	768.1	791.5	812.1	827.7	837.2
25°	631.5	640.4	653.3	663.3	665.5	677.2	691.2	717.9	739.1	764.2	775.3
27.5°	555.7	563.5	577.5	583.0	589.7	601.4	612.6	634.9	657.2	686.1	698.4
30°	467.1	483.8	500.0	510.6	516.1	530.1	537.9	559.6	580.2	601.4	619.3
32.5°	391.3	406.3	424.7	438.1	444.8	455.4	467.6	486.0	502.2	522.8	543.5
35°	321.6	342.2	354.5	366.2	383.5	388.5	400.8	417.5	427.0	449.3	472.7
37.5°	272.6	284.8	297.1	308.8	323.3	330.0	341.7	355.6	366.8	380.1	401.3
40°	242.5	249.2	258.1	265.9	276.5	284.8	291.0	302.7	311.0	324.4	339.4
42.5°	228.5	230.2	231.3	236.9	242.5	248.0	254.7	259.7	269.8	279.8	289.3
45°	220.7	217.4	215.7	216.3	218.5	221.8	227.4	233.0	239.7	245.8	251.4
47.5°	214.0	209.6	204.6	201.8	202.3	203.4	207.9	212.4	215.7	220.7	223.0
50°	198.4	194.5	190.1	186.2	186.7	187.3	191.2	194.5	196.8	198.4	201.2
52.5°	188.4	182.8	178.9	175.0	174.5	176.1	179.5	182.8	183.9	185.1	185.6
55°	181.2	175.6	170.6	166.7	165.0	168.9	170.0	174.5	176.1	176.1	176.7
57.5°	175.6	168.9	163.9	160.0	157.2	160.0	162.8	167.8	168.3	167.2	167.2
60°	167.2	162.2	157.2	153.3	150.5	152.7	155.0	160.5	160.5	157.7	157.2
62.5°	152.7	149.9	146.6	144.9	144.4	146.6	148.3	152.7	151.1	147.7	146.6
65°	142.1	139.9	136.6	135.4	134.9	138.2	138.8	141.6	139.3	137.7	137.1
67.5°	129.3	127.6	126.0	125.4	123.7	123.7	124.9	126.5	125.4	125.4	126.0
70°	114.8	112.6	110.9	111.5	110.4	110.4	110.9	112.0	111.5	112.6	113.7
72.5°	101.4	98.7	98.1	98.1	97.0	97.5	97.5	98.1	99.2	99.8	102.6
75°	88.6	85.8	85.8	85.3	85.3	85.3	85.8	87.0	88.1	88.6	89.7
77.5°	76.9	75.2	75.8	75.2	75.2	75.2	75.2	76.9	77.5	78.0	79.7
80°	66.3	66.3	66.9	66.9	66.3	65.8	66.3	67.4	68.0	68.6	69.1
82.5°	60.2	60.8	60.8	60.8	58.0	56.9	58.5	59.6	60.8	61.3	62.4
85°	51.8	49.6	51.8	51.3	47.4	46.8	46.8	47.4	48.5	47.4	47.4
87.5°	33.4	30.1	31.8	31.8	27.9	22.9	29.0	31.2	27.9	29.5	29.5
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):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	901.9	900.7	901.3	901.3	902.4	900.7	903.0	905.2	905.8	905.8	906.3
5°	913.6	912.4	916.3	914.7	918.6	918.0	920.8	923.0	924.2	924.2	924.2
7.5°	932.0	935.9	938.1	944.2	944.8	948.1	950.9	953.7	952.6	953.1	952.6
10°	952.6	957.6	963.2	969.3	969.9	973.8	978.2	981.0	979.9	979.3	977.7
12.5°	970.4	973.8	980.4	986.6	989.9	996.1	1000.5	1002.7	1002.7	1001.1	999.4
15°	969.3	974.3	981.6	990.5	996.6	1005.5	1013.3	1018.3	1018.9	1017.2	1016.7
17.5°	944.8	952.0	958.7	971.0	982.1	994.4	1007.2	1014.4	1021.1	1025.0	1027.3
20°	900.7	909.7	919.1	935.3	950.3	966.5	981.6	992.2	1002.2	1013.9	1027.8
22.5°	848.9	862.3	875.7	896.3	914.7	933.1	950.3	963.2	978.8	998.8	1025.0
25°	788.1	802.1	818.8	842.8	866.2	892.9	918.6	944.2	974.3	1008.9	1049.6
27.5°	716.2	731.9	753.6	782.6	809.3	836.6	876.8	917.5	966.5	1011.1	1057.4
30°	644.9	665.0	688.4	717.4	744.1	783.1	823.3	873.4	925.3	975.4	1030.6
32.5°	568.0	593.1	622.0	646.0	676.1	715.7	755.8	809.3	864.5	923.6	984.3
35°	493.8	517.8	540.7	567.4	597.5	634.9	673.9	725.2	794.8	857.8	930.3
37.5°	418.6	440.9	457.1	478.2	504.4	545.7	587.5	646.6	712.3	789.8	862.3
40°	352.8	371.2	389.6	406.3	428.6	467.6	512.2	570.2	634.9	710.1	790.9
42.5°	300.4	314.4	334.4	354.5	373.5	406.9	448.7	505.6	569.7	646.6	727.4
45°	256.4	265.9	282.0	298.8	322.2	350.0	390.2	448.1	513.4	590.8	676.1
47.5°	224.6	229.1	240.2	257.5	279.3	306.6	341.1	393.5	457.1	535.1	624.8
50°	202.9	207.9	213.5	228.0	247.5	275.3	303.8	349.5	407.5	483.8	573.0
52.5°	187.8	190.1	192.3	201.2	219.1	242.5	272.6	307.1	365.6	438.7	518.9
55°	178.9	179.5	181.2	185.6	199.0	220.7	246.9	279.8	325.5	394.6	476.6
57.5°	168.3	169.4	171.1	173.9	182.3	201.8	224.1	250.8	288.7	346.7	425.3
60°	158.3	161.1	163.9	165.5	170.0	181.7	200.7	221.8	252.5	296.0	358.4
62.5°	147.7	151.1	153.3	155.0	156.6	163.9	177.8	191.7	210.7	239.1	285.9
65°	138.2	140.5	142.1	143.2	144.4	146.6	152.7	158.3	163.9	181.2	215.2
67.5°	127.6	128.8	129.3	129.9	129.3	129.3	129.9	132.1	134.3	141.0	157.2
70°	115.4	117.1	117.1	117.6	117.6	115.9	115.9	115.9	115.9	117.6	126.5
72.5°	103.7	105.9	105.9	106.5	105.9	105.3	105.3	105.3	107.0	108.1	111.5
75°	92.5	94.8	94.2	94.8	95.3	95.3	96.4	97.0	98.7	99.2	101.4
77.5°	81.4	83.1	83.6	83.1	84.2	85.3	87.5	88.6	89.2	89.7	90.3
80°	70.8	71.9	71.3	69.7	72.5	74.1	77.5	81.4	80.3	80.8	81.9
82.5°	58.5	56.9	55.7	56.9	58.5	60.8	64.1	69.1	69.7	72.5	71.9
85°	45.1	40.1	39.6	42.4	41.8	44.6	50.2	54.1	57.4	60.2	57.4
87.5°	26.8	24.0	20.1	19.0	20.6	27.3	28.4	34.6	37.3	38.5	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



REPORT NUMBER: P159103

CATALOG NUMBER: VST-F04-LED-E-U-SLR-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4
2.5°	957.0	959.8	959.8	960.9	962.6	963.2	965.4	969.3	969.9	969.9	971.5
5°	974.9	977.7	977.7	979.9	980.4	983.2	986.0	990.5	992.7	992.2	999.4
7.5°	1003.9	1001.6	1000.0	1003.3	1005.0	1008.3	1013.9	1017.8	1021.7	1027.8	1037.9
10°	1028.4	1025.0	1023.4	1025.6	1026.7	1030.6	1034.0	1039.5	1049.0	1058.5	1070.7
12.5°	1048.4	1044.5	1040.1	1041.2	1042.9	1047.9	1053.5	1060.7	1074.6	1086.9	1105.3
15°	1065.2	1059.6	1055.1	1057.4	1061.3	1068.0	1077.4	1090.3	1113.1	1134.3	1158.8
17.5°	1081.3	1080.2	1078.5	1085.8	1088.6	1104.2	1118.1	1141.5	1172.7	1204.5	1239.6
20°	1096.9	1109.2	1115.3	1129.8	1138.7	1159.9	1181.1	1209.5	1249.1	1292.6	1340.5
22.5°	1118.7	1152.1	1172.7	1202.3	1217.3	1240.2	1271.4	1308.7	1352.8	1408.5	1469.8
25°	1170.5	1219.6	1260.8	1307.1	1345.0	1380.1	1417.4	1462.6	1526.1	1576.9	1657.1
27.5°	1193.4	1262.5	1324.4	1389.6	1446.4	1500.5	1559.6	1614.2	1689.4	1758.0	1855.0
30°	1171.6	1249.7	1329.9	1415.2	1498.3	1580.2	1666.0	1749.6	1836.6	1932.5	2035.6
32.5°	1131.5	1219.0	1309.3	1409.6	1512.8	1619.2	1730.7	1852.2	1974.8	2094.1	2199.5
35°	1090.8	1185.0	1285.3	1400.2	1521.7	1653.8	1792.0	1945.8	2108.0	2259.1	2396.8
37.5°	1031.7	1135.4	1250.2	1382.9	1527.2	1690.0	1867.8	2057.3	2262.4	2470.3	2650.9
40°	960.4	1070.2	1195.6	1348.3	1521.7	1727.3	1958.7	2201.7	2465.3	2718.9	2940.8
42.5°	895.2	1002.2	1136.0	1302.1	1507.2	1760.2	2045.1	2347.7	2659.9	2943.6	3233.4
45°	837.8	955.9	1090.3	1269.7	1499.9	1788.1	2109.2	2457.0	2814.3	3152.0	3494.3
47.5°	785.4	908.0	1058.5	1251.9	1496.6	1804.8	2153.7	2528.3	2924.1	3312.0	3709.4
50°	731.3	850.6	1011.7	1232.4	1488.2	1804.3	2177.2	2576.8	3001.0	3436.3	3857.7
52.5°	673.3	793.2	954.8	1196.7	1470.4	1794.2	2183.3	2609.7	3061.7	3512.7	3983.7
55°	620.4	732.4	894.1	1137.1	1433.0	1769.7	2169.4	2623.6	3104.7	3588.5	4072.3
57.5°	559.6	676.1	830.0	1055.1	1362.8	1726.2	2129.8	2604.1	3116.9	3639.2	4142.5
60°	476.0	590.3	748.6	958.2	1253.0	1634.3	2056.2	2545.0	3077.9	3648.1	4192.7
62.5°	380.1	478.8	631.5	824.4	1098.6	1489.9	1920.2	2412.4	2956.4	3564.5	4167.0
65°	282.6	348.4	479.9	649.4	919.7	1272.5	1701.1	2190.0	2718.9	3332.1	4006.0
67.5°	196.8	244.1	325.0	450.9	668.9	982.7	1388.5	1842.7	2351.6	2901.8	3671.5
70°	148.8	170.6	214.6	284.8	433.1	669.4	1009.4	1414.1	1886.2	2416.3	3141.4
72.5°	127.1	138.2	162.8	195.1	265.3	406.9	633.8	973.2	1391.8	1823.2	2410.1
75°	114.3	123.7	139.3	160.0	187.8	246.9	371.8	615.9	921.9	1221.2	1681.6
77.5°	103.7	112.0	126.0	136.6	151.6	177.8	236.9	368.4	552.4	754.7	1043.4
80°	92.5	97.5	110.4	121.0	132.7	147.7	170.0	231.3	317.2	447.0	615.4
82.5°	79.1	83.1	92.5	107.0	115.9	122.1	128.8	153.3	190.1	242.5	341.7
85°	61.3	64.1	72.5	83.1	87.0	87.5	88.6	95.3	118.2	181.7	294.3
87.5°	31.2	34.6	43.5	46.8	39.6	42.9	43.5	46.3	61.3	99.8	101.4
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°	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	931.4	0°
2.5°	971.5	973.2	977.1	976.5	979.3	979.3	979.3	982.1	980.4	982.1	984.9	2.5°
5°	999.4	1002.2	1007.8	1007.8	1008.3	1006.6	1010.0	1012.2	1009.4	1008.3	1008.9	5°
7.5°	1040.1	1044.5	1049.0	1053.5	1056.8	1055.1	1055.7	1050.7	1049.6	1045.7	1040.6	7.5°
10°	1079.7	1091.9	1100.3	1108.1	1108.6	1107.0	1107.5	1099.2	1097.5	1089.7	1084.7	10°
12.5°	1120.4	1136.0	1149.3	1157.7	1162.7	1163.8	1164.4	1164.4	1156.6	1149.9	1138.2	12.5°
15°	1180.5	1207.9	1228.5	1237.4	1244.6	1251.3	1253.0	1255.2	1249.1	1240.2	1238.5	15°
17.5°	1275.9	1301.5	1328.8	1352.8	1368.9	1370.1	1384.0	1382.9	1395.7	1385.7	1382.9	17.5°
20°	1389.0	1444.8	1473.2	1504.9	1523.3	1532.3	1564.6	1554.6	1564.0	1580.2	1564.0	20°
22.5°	1530.6	1601.4	1642.6	1686.1	1716.2	1737.9	1761.3	1779.7	1805.4	1817.6	1806.5	22.5°
25°	1718.4	1799.2	1848.3	1908.5	1956.4	1995.5	2036.1	2085.2	2084.6	2114.2	2134.8	25°
27.5°	1934.1	2037.3	2108.6	2214.5	2255.8	2321.5	2391.2	2467.0	2480.4	2518.8	2538.3	27.5°
30°	2137.0	2264.7	2406.2	2532.2	2674.9	2772.5	2853.3	2906.8	2987.6	2967.5	2956.4	30°
32.5°	2324.3	2494.3	2696.1	2902.9	3129.2	3283.6	3426.3	3492.6	3542.8	3436.3	3295.3	32.5°
35°	2567.3	2770.8	3001.5	3256.8	3544.4	3763.5	3910.6	3931.3	3902.8	3766.3	3532.7	35°
37.5°	2868.3	3081.8	3344.3	3614.1	3919.6	4125.2	4293.0	4323.1	4247.9	4004.3	3759.0	37.5°
40°	3165.4	3415.7	3700.5	4019.9	4336.5	4562.8	4731.1	4740.0	4617.4	4332.6	4045.5	40°
42.5°	3490.4	3764.0	4081.2	4435.1	4762.3	4991.4	5112.9	5151.4	4978.0	4612.9	4337.6	42.5°
45°	3770.7	4097.9	4451.3	4827.5	5169.8	5387.2	5510.9	5498.6	5289.1	4928.4	4605.7	45°
47.5°	4043.9	4403.9	4776.3	5175.9	5515.9	5735.5	5862.6	5851.5	5585.6	5170.3	4815.3	47.5°
50°	4286.9	4677.6	5075.6	5502.5	5841.4	6042.6	6198.2	6149.1	5813.0	5364.9	4950.2	50°
52.5°	4455.8	4891.6	5307.5	5769.0	6117.9	6308.5	6506.4	6348.7	5947.3	5484.1	5022.6	52.5°
55°	4562.8	5038.8	5472.4	5983.0	6325.8	6553.8	6681.4	6457.3	5999.2	5517.0	5047.7	55°
57.5°	4635.2	5119.6	5569.4	6106.7	6513.1	6704.3	6735.5	6461.2	5965.7	5465.2	5022.6	57.5°
60°	4670.9	5143.6	5613.5	6193.7	6644.6	6749.4	6692.6	6370.9	5850.3	5313.0	4861.0	60°
62.5°	4667.0	5113.5	5590.6	6222.7	6670.8	6684.2	6554.9	6217.1	5638.0	4993.6	4592.3	62.5°
65°	4567.8	5003.7	5461.8	6115.1	6548.8	6491.3	6328.6	5928.4	5225.0	4576.7	4373.8	65°
67.5°	4281.9	4699.9	5125.2	5762.8	6204.8	6149.1	5902.7	5361.0	4745.0	4207.7	4098.5	67.5°
70°	3803.6	4158.1	4531.6	5091.7	5555.5	5480.2	5049.4	4720.0	4269.6	3781.3	3743.4	70°
72.5°	3179.9	3448.6	3719.5	4136.4	4455.8	4301.9	4031.0	4013.8	3649.8	3276.9	3284.7	72.5°
75°	2487.1	2688.8	2815.4	3060.6	3273.0	3135.3	3151.5	3247.3	3127.5	2833.8	2738.4	75°
77.5°	1802.0	1995.5	2035.6	2181.1	2330.4	2487.1	2694.4	2920.2	2958.1	2793.1	2447.5	77.5°
80°	1179.4	1392.4	1313.2	1365.0	1575.2	1861.1	2239.6	2611.4	2739.0	2590.7	2165.5	80°
82.5°	695.6	993.8	867.9	956.5	1089.7	1338.8	1600.3	1880.6	2094.1	1936.4	1808.7	82.5°
85°	528.4	783.7	830.0	937.5	981.0	991.6	1037.3	1128.7	1239.1	1280.3	1277.0	85°
87.5°	275.3	609.2	683.9	632.6	590.3	511.7	399.1	429.7	393.0	537.3	508.9	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°
931.4	931.4	931.4	931.4	931.4	931.4	931.4
985.5	983.8	984.9	985.5	985.5	985.5	986.6
1008.3	1003.9	1002.2	1002.2	1001.6	1000.0	999.4
1032.8	1025.0	1022.3	1018.9	1016.1	1014.4	1011.7
1076.9	1070.2	1056.3	1048.4	1041.2	1036.2	1031.7
1136.0	1126.5	1113.1	1103.1	1091.9	1088.6	1083.0
1227.4	1219.0	1207.3	1196.2	1189.5	1177.8	1169.4
1370.1	1353.3	1341.6	1327.1	1311.0	1287.0	1275.3
1557.9	1524.5	1501.0	1488.2	1455.9	1452.0	1423.6
1773.6	1763.6	1727.9	1712.3	1681.1	1668.8	1624.2
2096.3	2088.5	2015.5	2007.7	1959.8	1924.1	1855.0
2520.5	2456.4	2373.9	2316.5	2234.6	2142.6	2025.0
2891.2	2760.2	2634.2	2500.4	2387.3	2255.2	2122.0
3127.5	2951.9	2789.7	2652.6	2512.7	2355.5	2184.4
3334.9	3157.6	2980.9	2818.7	2649.3	2448.1	2236.8
3582.9	3406.8	3207.8	2979.8	2762.4	2516.1	2258.0
3837.1	3630.8	3382.2	3103.0	2829.9	2549.5	2254.1
4097.4	3833.7	3503.2	3184.9	2872.8	2554.5	2227.9
4308.6	3975.3	3592.9	3226.7	2881.7	2537.2	2195.0
4458.0	4066.1	3633.1	3241.2	2870.6	2509.9	2150.4
4543.3	4115.8	3643.1	3230.6	2847.7	2470.9	2101.9
4574.5	4130.8	3633.1	3208.9	2827.1	2429.1	2067.9
4571.1	4122.4	3596.3	3158.2	2771.9	2373.4	2026.1
4508.2	4045.0	3521.0	3097.4	2725.1	2347.7	2028.9
4401.1	3995.9	3498.7	3109.7	2749.6	2402.9	2117.0
4352.6	4094.0	3624.1	3232.3	2875.6	2560.6	2298.7
4325.3	4253.4	3803.6	3364.4	3024.9	2751.8	2515.5
4213.9	4299.1	3905.6	3439.6	3158.2	2943.6	2732.3
4033.8	4192.7	3828.1	3425.2	3231.7	3090.7	2810.4
3658.1	3825.9	3483.1	3211.7	3139.8	3092.9	2693.3
2963.6	3050.6	2855.5	2794.2	2820.9	2821.5	2259.1
2185.5	2133.1	2045.1	2049.5	2229.6	2201.7	1610.3
1784.2	1460.4	1335.5	1382.9	1605.3	1485.4	1011.7
1660.5	1302.6	1075.2	1086.4	1212.3	957.0	609.2
1342.7	1187.2	952.0	854.5	829.4	637.7	413.6
561.8	516.7	384.6	346.7	284.3	173.9	79.1
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)