

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: McGRAW-EDISON

Report Number: P158994

Luminaire Tested: **VTS-F04-LED-E1-SLR-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158994
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: MCGRAW-EDISON
Catalog Number: VTS-F04-LED-E1-SLR-7030
Description: VENTUS LED SITE LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8104.8 lumens
Efficiency: N/A
Efficacy: 79.3 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

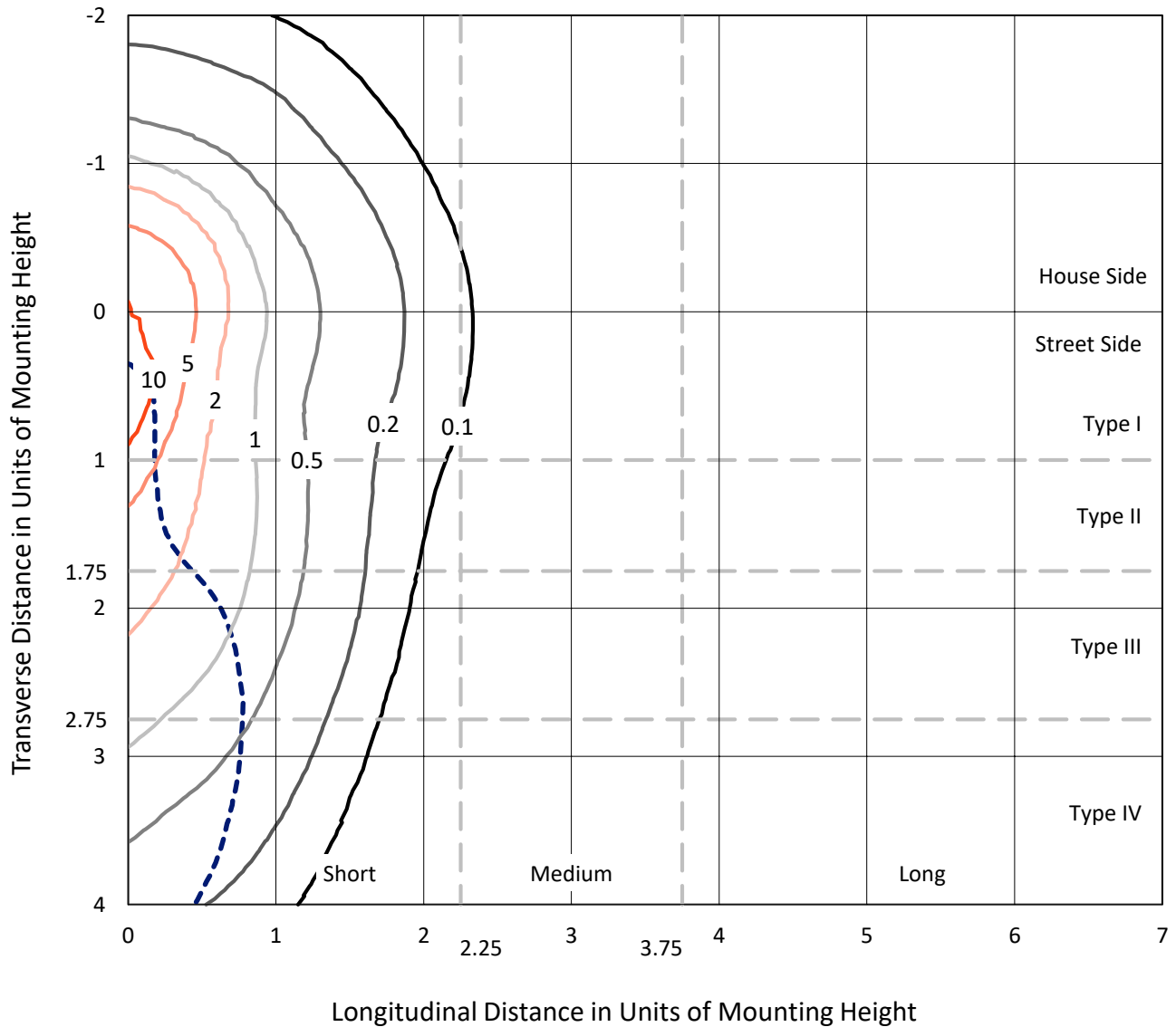
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT

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Iso-Footcandle Lines of Horizontal Illumination

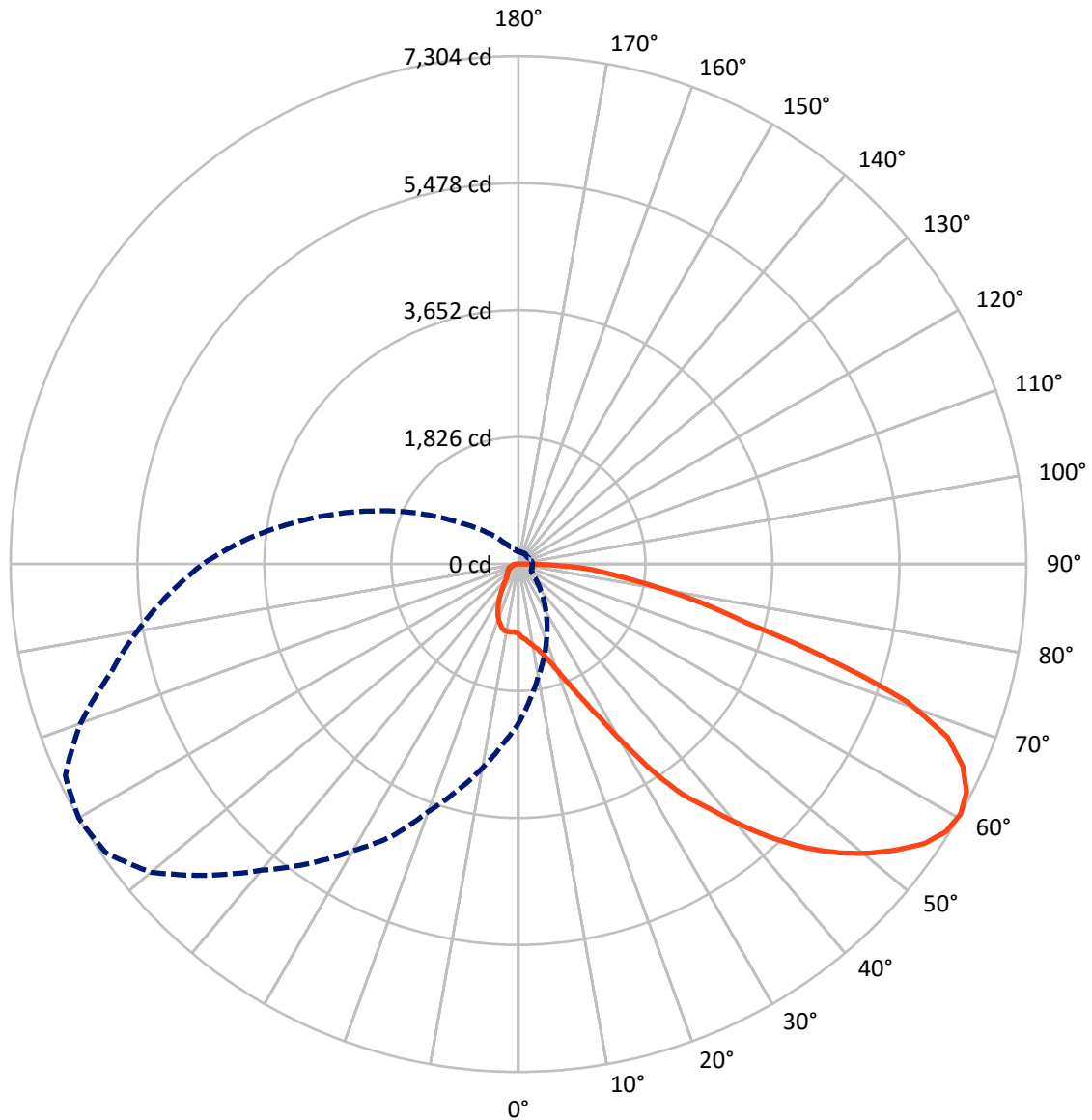
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.2 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	1824.9	0.0	1824.9
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	6279.8	0.0	6279.8
	% Fixture	77.5	0.0	77.5
Total	Lumens	8104.8	0.0	8104.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	99.4	1.2
10°-20°	321.1	4.0
20°-30°	609.3	7.5
30°-40°	959.5	11.8
40°-50°	1339.2	16.5
50°-60°	1656.3	20.4
60°-70°	1716.8	21.2
70°-80°	1080.3	13.3
80°-90°	322.9	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°	8104.8	100.0
0°-180°	8104.8	100.0



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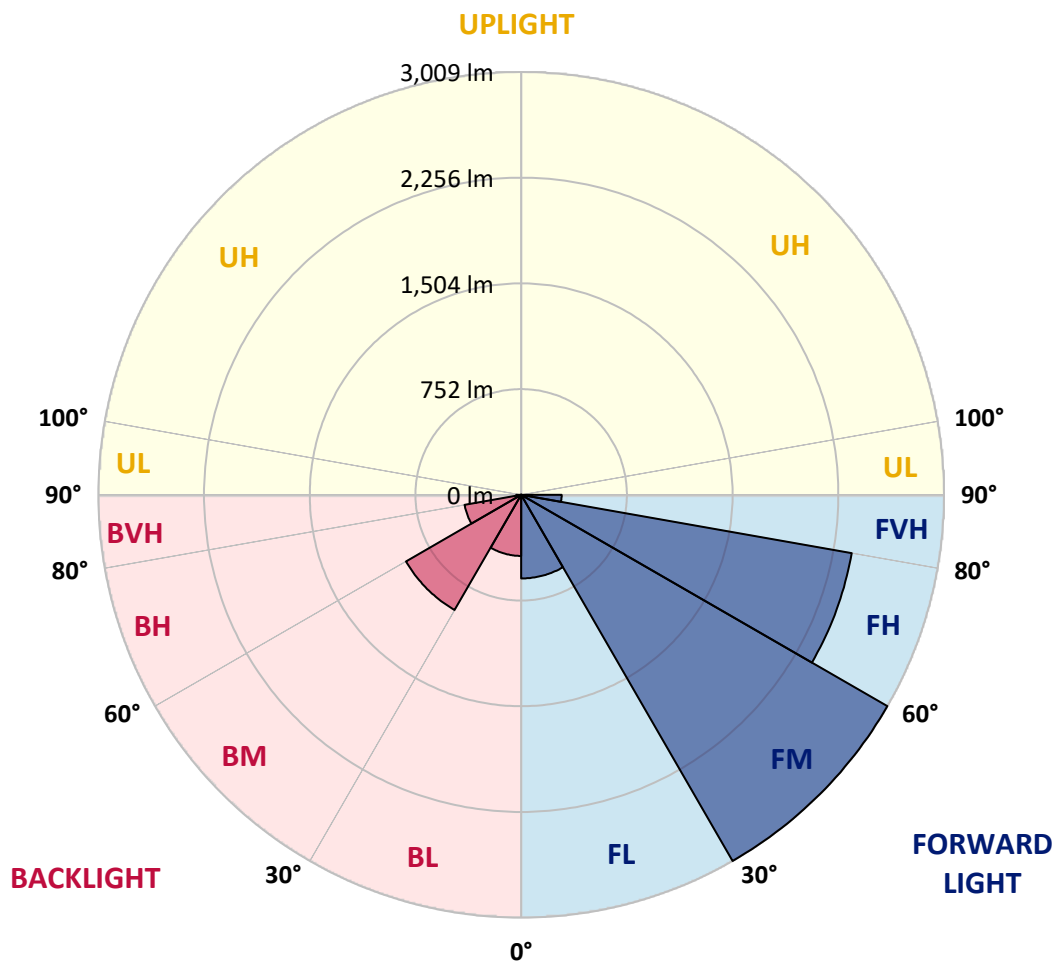
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	595.0	7.3			
FM	(30°-60°)	3008.6	37.1			
FH	(60°-80°)	2388.4	29.5			G2/5000
FVH	(80°-90°)	287.8	3.6			G3/500
BL	(0°-30°)	434.8	5.4	B1/500		
BM	(30°-60°)	946.3	11.7	B1/1000		
BH	(60°-80°)	408.7	5.0	B1/500		G1/500
BVH	(80°-90°)	35.1	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°	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9
2.5°	1067.7	1003.7	1004.9	1003.1	1003.1	1001.9	1003.1	1001.9	1000.7	1000.7	1001.3
5°	1081.5	1011.0	1011.0	1009.1	1007.9	1006.7	1007.9	1006.7	1006.1	1004.9	1005.5
7.5°	1094.8	1015.2	1012.8	1010.4	1007.3	1008.5	1008.5	1007.9	1008.5	1007.9	1009.1
10°	1116.5	1029.1	1023.0	1017.6	1017.0	1015.8	1015.8	1014.0	1014.0	1012.8	1013.4
12.5°	1172.0	1071.9	1065.2	1055.6	1053.8	1048.4	1045.3	1041.7	1035.7	1030.3	1026.0
15°	1265.5	1143.1	1130.4	1121.9	1118.3	1107.5	1090.6	1077.3	1059.8	1044.7	1029.1
17.5°	1380.1	1238.4	1223.3	1212.4	1194.3	1164.8	1136.4	1103.8	1070.1	1039.3	1011.0
20°	1540.6	1375.3	1345.7	1319.8	1274.6	1223.9	1170.8	1114.1	1062.2	1014.0	972.3
22.5°	1757.7	1552.0	1497.1	1427.8	1343.9	1258.3	1173.8	1095.4	1026.0	963.3	907.8
25°	2007.4	1720.9	1622.0	1502.6	1374.1	1255.9	1144.9	1044.1	963.3	882.5	822.2
27.5°	2191.4	1862.1	1716.1	1559.3	1395.2	1244.4	1108.1	986.2	888.5	805.9	732.9
30°	2296.4	1942.9	1767.4	1583.4	1398.8	1225.1	1061.6	920.5	807.7	709.4	639.4
32.5°	2363.9	1986.3	1772.8	1559.3	1355.4	1167.8	991.0	844.5	722.0	617.1	542.9
35°	2420.6	2003.8	1747.5	1505.6	1273.3	1080.9	900.6	754.0	624.3	527.8	451.8
37.5°	2443.5	2000.8	1707.0	1433.8	1193.1	986.2	808.3	658.1	542.3	457.2	392.1
40°	2439.3	1973.1	1652.2	1357.2	1099.0	887.3	710.6	578.5	484.4	412.6	364.9
42.5°	2411.0	1936.3	1591.2	1279.4	1012.8	805.3	644.2	527.2	451.2	396.9	355.3
45°	2375.4	1892.2	1535.7	1208.2	944.6	746.8	605.6	512.7	447.0	395.1	350.5
47.5°	2327.1	1843.4	1479.6	1157.5	908.4	729.3	605.0	521.2	450.6	390.9	342.0
50°	2274.6	1807.8	1448.9	1135.8	904.2	740.1	626.1	534.4	453.0	386.6	330.6
52.5°	2237.9	1792.1	1448.3	1143.7	926.5	770.3	650.8	551.3	462.0	389.1	328.1
55°	2192.6	1789.7	1464.0	1177.4	975.4	821.6	690.1	580.3	480.7	398.1	329.9
57.5°	2195.6	1837.3	1524.9	1260.7	1063.4	890.9	740.1	615.9	498.8	403.5	326.9
60°	2290.9	1948.3	1644.9	1403.0	1178.6	972.3	791.4	635.2	497.6	391.5	312.5
62.5°	2487.6	2114.8	1824.7	1570.1	1295.7	1035.1	810.1	629.7	479.5	365.5	288.9
65°	2722.2	2309.6	1999.6	1699.8	1366.8	1049.6	793.8	599.6	443.3	331.8	260.6
67.5°	2956.9	2447.8	2100.3	1736.6	1337.9	991.0	733.5	532.0	381.8	285.9	228.6
70°	3041.3	2476.1	2092.5	1654.0	1206.4	845.7	603.8	428.3	306.4	234.0	192.4
72.5°	2914.6	2298.8	1860.3	1405.4	980.8	655.7	442.7	316.1	234.0	183.4	156.8
75°	2444.7	1851.2	1470.6	1058.6	708.2	463.9	319.7	230.4	176.1	145.4	125.5
77.5°	1742.6	1289.0	1001.9	695.5	459.6	321.5	229.2	173.1	139.9	116.4	101.9
80°	1094.8	791.4	610.4	417.4	286.5	218.4	164.7	136.9	112.8	94.7	85.1
82.5°	659.3	460.8	359.5	259.4	188.2	149.6	121.2	107.4	89.9	78.4	73.0
85°	447.6	339.0	235.8	153.2	113.4	88.1	82.6	74.2	67.0	56.1	54.3
87.5°	85.7	121.2	105.6	62.7	41.6	35.6	31.4	30.2	27.1	21.7	24.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9
2.5°	997.7	996.5	994.1	994.1	992.3	988.6	988.0	985.6	982.6	983.2	982.6
5°	1001.3	998.9	995.9	994.7	992.3	988.6	986.8	983.8	980.8	980.8	980.8
7.5°	1005.5	1002.5	1000.1	995.9	991.0	987.4	982.6	979.0	977.2	976.6	977.2
10°	1009.1	1007.3	1003.7	997.7	991.0	983.8	979.0	974.2	969.3	969.9	970.5
12.5°	1017.0	1011.0	1001.3	992.3	982.0	973.0	964.5	958.5	952.4	952.4	953.0
15°	1011.6	994.1	980.8	963.3	951.8	937.4	927.7	922.3	918.7	917.5	918.1
17.5°	979.6	958.5	938.6	922.9	907.2	895.7	891.5	887.9	883.1	885.5	883.1
20°	931.3	905.4	877.0	858.3	839.6	831.8	824.6	820.9	817.9	828.8	828.8
22.5°	862.0	830.6	801.6	778.7	757.6	749.2	741.9	737.7	739.5	752.8	754.0
25°	774.5	736.5	698.5	684.6	663.5	656.9	652.7	652.1	653.9	667.1	670.1
27.5°	681.6	641.8	609.2	577.3	567.6	562.2	554.3	563.4	565.2	579.7	585.7
30°	582.7	539.9	505.5	484.4	463.9	466.9	460.2	471.1	475.9	491.0	495.8
32.5°	481.3	440.9	406.6	385.4	371.0	372.8	367.9	377.6	382.4	400.5	409.6
35°	398.1	363.7	336.0	317.9	311.2	304.6	303.4	304.6	309.4	323.3	339.6
37.5°	350.5	322.1	302.2	288.9	279.9	275.7	273.2	273.2	273.2	276.3	284.1
40°	329.9	304.6	287.1	274.5	268.4	266.0	264.2	262.4	259.4	258.2	258.8
42.5°	320.9	291.9	273.2	263.6	260.0	260.0	260.0	258.8	255.8	252.7	249.7
45°	311.9	280.5	261.8	255.2	253.3	253.9	253.9	253.9	251.5	247.9	242.5
47.5°	300.4	267.8	249.1	244.9	244.9	246.7	247.3	247.3	244.9	241.3	237.1
50°	286.5	251.5	234.6	231.0	229.2	229.2	229.2	229.2	227.4	225.0	222.0
52.5°	279.3	242.5	225.0	221.4	221.4	219.6	219.0	217.2	215.3	213.5	209.3
55°	276.9	238.9	220.8	217.8	217.8	215.9	214.1	212.3	209.3	206.3	202.1
57.5°	270.2	231.0	215.3	212.9	212.9	211.7	209.9	208.1	205.1	200.9	195.4
60°	255.2	217.8	204.5	203.9	203.9	203.3	202.1	202.1	199.1	194.8	188.2
62.5°	235.8	203.9	191.2	191.2	190.6	190.0	187.6	187.0	183.4	177.9	171.9
65°	217.2	191.8	183.4	181.0	179.8	177.9	176.7	173.7	170.7	165.9	159.8
67.5°	193.6	173.7	168.3	165.9	163.5	161.7	159.8	158.0	154.4	150.8	146.0
70°	168.3	153.8	150.8	150.2	147.2	145.4	144.8	143.0	139.3	135.7	129.7
72.5°	144.2	135.7	133.3	133.3	129.7	127.3	126.1	125.5	123.1	120.0	114.6
75°	116.4	110.4	109.8	112.8	112.8	111.0	109.8	111.0	107.4	105.6	100.1
77.5°	95.3	92.3	90.5	91.7	95.3	93.5	91.1	91.1	91.1	88.1	86.3
80°	80.8	78.4	76.6	77.8	77.2	76.6	75.4	73.0	73.0	73.0	72.4
82.5°	73.0	72.4	65.7	65.7	63.3	61.5	60.3	59.1	57.9	57.9	60.9
85°	54.9	56.7	53.1	52.5	49.5	47.0	44.6	43.4	42.2	44.0	50.1
87.5°	26.5	26.5	25.3	28.4	25.9	24.7	22.9	21.7	22.9	28.4	33.8
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°	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9
2.5°	981.4	980.8	980.2	979.0	976.6	976.0	974.8	974.8	974.2	973.0	974.2
5°	979.6	980.8	980.8	980.2	978.4	979.6	979.6	981.4	981.4	982.6	985.6
7.5°	977.2	980.2	982.6	984.4	986.8	988.6	992.3	997.7	1000.1	1004.3	1006.1
10°	972.3	977.8	982.0	987.4	993.5	1000.1	1005.5	1014.0	1017.0	1023.0	1026.0
12.5°	958.5	967.5	974.8	985.6	995.9	1006.1	1015.8	1026.6	1032.1	1038.7	1042.9
15°	924.7	935.0	945.2	954.9	973.0	992.9	1008.5	1023.0	1030.9	1039.3	1043.5
17.5°	884.3	890.9	899.4	912.0	929.5	947.0	972.3	992.9	1004.9	1014.6	1015.8
20°	837.2	846.9	852.9	857.7	871.6	883.7	910.8	934.3	950.0	961.5	964.5
22.5°	765.5	775.7	786.0	789.6	800.4	816.1	831.2	856.5	878.9	895.7	906.0
25°	683.4	693.1	706.9	717.8	720.2	732.9	748.0	776.9	799.8	827.0	839.0
27.5°	601.4	609.8	624.9	630.9	638.2	650.8	662.9	687.0	711.2	742.5	755.8
30°	505.5	523.6	541.1	552.5	558.6	573.6	582.1	605.6	627.9	650.8	670.1
32.5°	423.4	439.7	459.6	474.1	481.3	492.8	506.1	526.0	543.5	565.8	588.1
35°	348.0	370.4	383.6	396.3	415.0	420.4	433.7	451.8	462.0	486.2	511.5
37.5°	295.0	308.2	321.5	334.2	349.9	357.1	369.8	384.8	396.9	411.4	434.3
40°	262.4	269.6	279.3	287.7	299.2	308.2	314.9	327.5	336.6	351.1	367.3
42.5°	247.3	249.1	250.3	256.4	262.4	268.4	275.7	281.1	291.9	302.8	313.1
45°	238.9	235.2	233.4	234.0	236.5	240.1	246.1	252.1	259.4	266.0	272.0
47.5°	231.6	226.8	221.4	218.4	219.0	220.2	225.0	229.8	233.4	238.9	241.3
50°	214.7	210.5	205.7	201.5	202.1	202.7	206.9	210.5	212.9	214.7	217.8
52.5°	203.9	197.8	193.6	189.4	188.8	190.6	194.2	197.8	199.1	200.3	200.9
55°	196.0	190.0	184.6	180.4	178.5	182.8	184.0	188.8	190.6	190.6	191.2
57.5°	190.0	182.8	177.3	173.1	170.1	173.1	176.1	181.6	182.2	181.0	181.0
60°	181.0	175.5	170.1	165.9	162.9	165.3	167.7	173.7	173.7	170.7	170.1
62.5°	165.3	162.3	158.6	156.8	156.2	158.6	160.4	165.3	163.5	159.8	158.6
65°	153.8	151.4	147.8	146.6	146.0	149.6	150.2	153.2	150.8	149.0	148.4
67.5°	139.9	138.1	136.3	135.7	133.9	133.9	135.1	136.9	135.7	135.7	136.3
70°	124.3	121.8	120.0	120.6	119.4	119.4	120.0	121.2	120.6	121.8	123.1
72.5°	109.8	106.8	106.2	106.2	105.0	105.6	105.6	106.2	107.4	108.0	111.0
75°	95.9	92.9	92.9	92.3	92.3	92.3	92.9	94.1	95.3	95.9	97.1
77.5°	83.2	81.4	82.0	81.4	81.4	81.4	81.4	83.2	83.8	84.4	86.3
80°	71.8	71.8	72.4	72.4	71.8	71.2	71.8	73.0	73.6	74.2	74.8
82.5°	65.1	65.7	65.7	65.7	62.7	61.5	63.3	64.5	65.7	66.4	67.6
85°	56.1	53.7	56.1	55.5	51.3	50.7	50.7	51.3	52.5	51.3	51.3
87.5°	36.2	32.6	34.4	34.4	30.2	24.7	31.4	33.8	30.2	32.0	32.0
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°	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9
2.5°	976.0	974.8	975.4	975.4	976.6	974.8	977.2	979.6	980.2	980.2	980.8
5°	988.6	987.4	991.7	989.8	994.1	993.5	996.5	998.9	1000.1	1000.1	1000.1
7.5°	1008.5	1012.8	1015.2	1021.8	1022.4	1026.0	1029.1	1032.1	1030.9	1031.5	1030.9
10°	1030.9	1036.3	1042.3	1049.0	1049.6	1053.8	1058.6	1061.6	1060.4	1059.8	1058.0
12.5°	1050.2	1053.8	1061.0	1067.7	1071.3	1077.9	1082.7	1085.1	1085.1	1083.3	1081.5
15°	1049.0	1054.4	1062.2	1071.9	1078.5	1088.2	1096.6	1102.0	1102.6	1100.8	1100.2
17.5°	1022.4	1030.3	1037.5	1050.8	1062.8	1076.1	1090.0	1097.8	1105.1	1109.3	1111.7
20°	974.8	984.4	994.7	1012.2	1028.4	1045.9	1062.2	1073.7	1084.5	1097.2	1112.3
22.5°	918.7	933.1	947.6	969.9	989.8	1009.7	1028.4	1042.3	1059.2	1080.9	1109.3
25°	852.9	868.0	886.1	912.0	937.4	966.3	994.1	1021.8	1054.4	1091.8	1135.8
27.5°	775.1	792.0	815.5	846.9	875.8	905.4	948.8	992.9	1045.9	1094.2	1144.3
30°	697.9	719.6	744.9	776.3	805.3	847.5	890.9	945.2	1001.3	1055.6	1115.3
32.5°	614.7	641.8	673.2	699.1	731.7	774.5	817.9	875.8	935.6	999.5	1065.2
35°	534.4	560.4	585.1	614.1	646.6	687.0	729.3	784.8	860.2	928.3	1006.7
37.5°	453.0	477.1	494.6	517.5	545.9	590.5	635.8	699.7	770.9	854.7	933.1
40°	381.8	401.7	421.6	439.7	463.9	506.1	554.3	617.1	687.0	768.5	855.9
42.5°	325.1	340.2	361.9	383.6	404.1	440.3	485.6	547.1	616.5	699.7	787.2
45°	277.5	287.7	305.2	323.3	348.6	378.8	422.2	485.0	555.5	639.4	731.7
47.5°	243.1	247.9	260.0	278.7	302.2	331.8	369.2	425.9	494.6	579.1	676.2
50°	219.6	225.0	231.0	246.7	267.8	298.0	328.7	378.2	440.9	523.6	620.1
52.5°	203.3	205.7	208.1	217.8	237.1	262.4	295.0	332.4	395.7	474.7	561.6
55°	193.6	194.2	196.0	200.9	215.3	238.9	267.2	302.8	352.3	427.1	515.7
57.5°	182.2	183.4	185.2	188.2	197.2	218.4	242.5	271.4	312.5	375.2	460.2
60°	171.3	174.3	177.3	179.1	184.0	196.6	217.2	240.1	273.2	320.3	387.9
62.5°	159.8	163.5	165.9	167.7	169.5	177.3	192.4	207.5	228.0	258.8	309.4
65°	149.6	152.0	153.8	155.0	156.2	158.6	165.3	171.3	177.3	196.0	232.8
67.5°	138.1	139.3	139.9	140.5	139.9	139.9	140.5	143.0	145.4	152.6	170.1
70°	124.9	126.7	126.7	127.3	127.3	125.5	125.5	125.5	125.5	127.3	136.9
72.5°	112.2	114.6	114.6	115.2	114.6	114.0	114.0	114.0	115.8	117.0	120.6
75°	100.1	102.5	101.9	102.5	103.1	103.1	104.4	105.0	106.8	107.4	109.8
77.5°	88.1	89.9	90.5	89.9	91.1	92.3	94.7	95.9	96.5	97.1	97.7
80°	76.6	77.8	77.2	75.4	78.4	80.2	83.8	88.1	86.9	87.5	88.7
82.5°	63.3	61.5	60.3	61.5	63.3	65.7	69.4	74.8	75.4	78.4	77.8
85°	48.9	43.4	42.8	45.8	45.2	48.3	54.3	58.5	62.1	65.1	62.1
87.5°	29.0	25.9	21.7	20.5	22.3	29.6	30.8	37.4	40.4	41.6	37.4
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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CATALOG NUMBER: VTS-F04-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9
2.5°	1035.7	1038.7	1038.7	1039.9	1041.7	1042.3	1044.7	1049.0	1049.6	1049.6	1051.4
5°	1055.0	1058.0	1058.0	1060.4	1061.0	1064.0	1067.1	1071.9	1074.3	1073.7	1081.5
7.5°	1086.4	1083.9	1082.1	1085.8	1087.6	1091.2	1097.2	1101.4	1105.7	1112.3	1123.1
10°	1112.9	1109.3	1107.5	1109.9	1111.1	1115.3	1118.9	1125.0	1135.2	1145.5	1158.7
12.5°	1134.6	1130.4	1125.6	1126.8	1128.6	1134.0	1140.0	1147.9	1163.0	1176.2	1196.1
15°	1152.7	1146.7	1141.8	1144.3	1148.5	1155.7	1166.0	1179.8	1204.6	1227.5	1254.0
17.5°	1170.2	1169.0	1167.2	1175.0	1178.0	1194.9	1210.0	1235.3	1269.1	1303.5	1341.5
20°	1187.1	1200.4	1207.0	1222.7	1232.3	1255.2	1278.2	1308.9	1351.8	1398.8	1450.7
22.5°	1210.6	1246.8	1269.1	1301.1	1317.4	1342.1	1375.9	1416.3	1464.0	1524.3	1590.6
25°	1266.7	1319.8	1364.4	1414.5	1455.5	1493.5	1533.9	1582.8	1651.5	1706.4	1793.3
27.5°	1291.4	1366.2	1433.2	1503.8	1565.3	1623.8	1687.7	1746.9	1828.3	1902.5	2007.4
30°	1267.9	1352.4	1439.2	1531.5	1621.4	1710.1	1802.9	1893.4	1987.5	2091.3	2202.9
32.5°	1224.5	1319.2	1416.9	1525.5	1637.1	1752.3	1872.9	2004.4	2137.1	2266.2	2380.2
35°	1180.5	1282.4	1391.0	1515.2	1646.7	1789.7	1939.3	2105.8	2281.3	2444.7	2593.7
37.5°	1116.5	1228.7	1353.0	1496.5	1652.8	1828.9	2021.3	2226.4	2448.4	2673.4	2868.8
40°	1039.3	1158.1	1293.9	1459.1	1646.7	1869.3	2119.6	2382.6	2667.9	2942.4	3182.5
42.5°	968.7	1084.5	1229.3	1409.1	1631.0	1904.9	2213.1	2540.7	2878.4	3185.5	3499.1
45°	906.6	1034.5	1179.8	1374.1	1623.2	1935.0	2282.5	2658.9	3045.5	3411.1	3781.4
47.5°	849.9	982.6	1145.5	1354.8	1619.6	1953.1	2330.7	2736.1	3164.4	3584.2	4014.3
50°	791.4	920.5	1094.8	1333.7	1610.5	1952.5	2356.1	2788.6	3247.6	3718.7	4174.7
52.5°	728.7	858.3	1033.3	1295.1	1591.2	1941.7	2362.7	2824.2	3313.3	3801.3	4311.0
55°	671.4	792.6	967.5	1230.5	1550.8	1915.1	2347.6	2839.2	3359.8	3883.4	4406.9
57.5°	605.6	731.7	898.2	1141.8	1474.8	1868.1	2304.8	2818.1	3373.1	3938.3	4482.9
60°	515.1	638.8	810.1	1036.9	1356.0	1768.6	2225.2	2754.2	3330.8	3947.9	4537.2
62.5°	411.4	518.1	683.4	892.1	1188.9	1612.3	2078.0	2610.6	3199.3	3857.4	4509.5
65°	305.8	377.0	519.4	702.7	995.3	1377.1	1841.0	2370.0	2942.4	3605.9	4335.2
67.5°	212.9	264.2	351.7	488.0	723.8	1063.4	1502.6	1994.2	2544.9	3140.2	3973.2
70°	161.1	184.6	232.2	308.2	468.7	724.4	1092.4	1530.3	2041.2	2614.8	3399.6
72.5°	137.5	149.6	176.1	211.1	287.1	440.3	685.8	1053.2	1506.2	1973.1	2608.2
75°	123.7	133.9	150.8	173.1	203.3	267.2	402.3	666.5	997.7	1321.6	1819.8
77.5°	112.2	121.2	136.3	147.8	164.1	192.4	256.4	398.7	597.8	816.7	1129.2
80°	100.1	105.6	119.4	130.9	143.6	159.8	184.0	250.3	343.2	483.8	665.9
82.5°	85.7	89.9	100.1	115.8	125.5	132.1	139.3	165.9	205.7	262.4	369.8
85°	66.4	69.4	78.4	89.9	94.1	94.7	95.9	103.1	127.9	196.6	318.5
87.5°	33.8	37.4	47.0	50.7	42.8	46.4	47.0	50.1	66.4	108.0	109.8
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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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	0°
2.5°	1051.4	1053.2	1057.4	1056.8	1059.8	1059.8	1059.8	1062.8	1061.0	1062.8	1065.8	2.5°
5°	1081.5	1084.5	1090.6	1090.6	1091.2	1089.4	1093.0	1095.4	1092.4	1091.2	1091.8	5°
7.5°	1125.6	1130.4	1135.2	1140.0	1143.7	1141.8	1142.5	1137.0	1135.8	1131.6	1126.2	7.5°
10°	1168.4	1181.7	1190.7	1199.2	1199.8	1197.9	1198.5	1189.5	1187.7	1179.2	1173.8	10°
12.5°	1212.4	1229.3	1243.8	1252.8	1258.3	1259.5	1260.1	1260.1	1251.6	1244.4	1231.7	12.5°
15°	1277.6	1307.1	1329.4	1339.1	1346.9	1354.2	1356.0	1358.4	1351.8	1342.1	1340.3	15°
17.5°	1380.7	1408.5	1438.0	1464.0	1481.4	1482.7	1497.7	1496.5	1510.4	1499.5	1496.5	17.5°
20°	1503.2	1563.5	1594.2	1628.6	1648.5	1658.2	1693.2	1682.3	1692.6	1710.1	1692.6	20°
22.5°	1656.4	1733.0	1777.6	1824.7	1857.2	1880.8	1906.1	1926.0	1953.7	1967.0	1955.0	22.5°
25°	1859.6	1947.1	2000.2	2065.3	2117.2	2159.4	2203.5	2256.6	2255.9	2287.9	2310.2	25°
27.5°	2093.1	2204.7	2281.9	2396.5	2441.1	2512.3	2587.7	2669.7	2684.2	2725.8	2746.9	27.5°
30°	2312.6	2450.8	2604.0	2740.3	2894.7	3000.3	3087.8	3145.7	3233.1	3211.4	3199.3	30°
32.5°	2515.3	2699.3	2917.7	3141.4	3386.3	3553.4	3707.8	3779.6	3833.9	3718.7	3566.1	32.5°
35°	2778.3	2998.5	3248.2	3524.5	3835.7	4072.8	4232.0	4254.3	4223.6	4075.8	3823.0	35°
37.5°	3104.0	3335.1	3619.2	3911.1	4241.7	4464.2	4645.8	4678.4	4596.9	4333.4	4067.9	37.5°
40°	3425.5	3696.4	4004.6	4350.2	4692.9	4937.8	5119.9	5129.6	4996.9	4688.6	4378.0	40°
42.5°	3777.2	4073.4	4416.6	4799.6	5153.7	5401.6	5533.1	5574.7	5387.1	4992.0	4694.1	42.5°
45°	4080.6	4434.7	4817.1	5224.3	5594.6	5829.9	5963.8	5950.5	5723.7	5333.4	4984.2	45°
47.5°	4376.2	4765.8	5168.8	5601.3	5969.2	6206.9	6344.4	6332.3	6044.6	5595.2	5211.0	47.5°
50°	4639.2	5062.0	5492.7	5954.7	6321.5	6539.2	6707.5	6654.4	6290.7	5805.7	5357.0	50°
52.5°	4821.9	5293.6	5743.6	6243.1	6620.7	6827.0	7041.1	6870.4	6436.1	5934.8	5435.4	52.5°
55°	4937.8	5452.9	5922.2	6474.7	6845.7	7092.4	7230.5	6988.0	6492.2	5970.4	5462.5	55°
57.5°	5016.2	5540.3	6027.1	6608.6	7048.3	7255.2	7289.0	6992.2	6456.0	5914.3	5435.4	57.5°
60°	5054.8	5566.3	6074.8	6702.7	7190.7	7304.1	7242.6	6894.5	6331.1	5749.7	5260.5	60°
62.5°	5050.5	5533.7	6050.0	6734.1	7219.0	7233.5	7093.6	6728.0	6101.3	5404.0	4969.7	62.5°
65°	4943.2	5414.9	5910.7	6617.6	7086.9	7024.8	6848.7	6415.6	5654.3	4952.8	4733.3	65°
67.5°	4633.7	5086.1	5546.4	6236.4	6714.8	6654.4	6387.8	5801.5	5135.0	4553.5	4435.3	67.5°
70°	4116.2	4499.8	4904.0	5510.2	6012.0	5930.6	5464.3	5107.9	4620.5	4092.1	4051.1	70°
72.5°	3441.2	3732.0	4025.1	4476.3	4821.9	4655.5	4362.3	4343.6	3949.7	3546.2	3554.6	72.5°
75°	2691.5	2909.8	3046.7	3312.1	3542.0	3393.0	3410.5	3514.2	3384.5	3066.6	2963.5	75°
77.5°	1950.1	2159.4	2202.9	2360.3	2522.0	2691.5	2915.8	3160.1	3201.2	3022.6	2648.6	77.5°
80°	1276.4	1506.8	1421.1	1477.2	1704.6	2014.1	2423.6	2826.0	2964.1	2803.6	2343.4	80°
82.5°	752.8	1075.5	939.2	1035.1	1179.2	1448.9	1731.8	2035.2	2266.2	2095.5	1957.4	82.5°
85°	571.8	848.1	898.2	1014.6	1061.6	1073.1	1122.5	1221.5	1340.9	1385.5	1381.9	85°
87.5°	298.0	659.3	740.1	684.6	638.8	553.7	431.9	465.1	425.3	581.5	550.7	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°
1007.9	1007.9	1007.9	1007.9	1007.9	1007.9	1007.9
1066.4	1064.6	1065.8	1066.4	1066.4	1066.4	1067.7
1091.2	1086.4	1084.5	1084.5	1083.9	1082.1	1081.5
1117.7	1109.3	1106.3	1102.6	1099.6	1097.8	1094.8
1165.4	1158.1	1143.1	1134.6	1126.8	1121.3	1116.5
1229.3	1219.1	1204.6	1193.7	1181.7	1178.0	1172.0
1328.2	1319.2	1306.5	1294.5	1287.2	1274.6	1265.5
1482.7	1464.6	1451.9	1436.2	1418.7	1392.8	1380.1
1685.9	1649.7	1624.4	1610.5	1575.5	1571.3	1540.6
1919.4	1908.5	1869.9	1853.0	1819.2	1806.0	1757.7
2268.6	2260.2	2181.2	2172.7	2120.8	2082.2	2007.4
2727.6	2658.3	2569.0	2506.9	2418.2	2318.7	2191.4
3128.8	2987.0	2850.7	2705.9	2583.5	2440.5	2296.4
3384.5	3194.5	3019.0	2870.6	2719.2	2549.1	2363.9
3608.9	3417.1	3225.9	3050.4	2867.0	2649.2	2420.6
3877.3	3686.7	3471.4	3224.7	2989.4	2722.8	2443.5
4152.4	3929.2	3660.2	3358.0	3062.4	2759.0	2439.3
4434.1	4148.8	3791.1	3446.7	3108.9	2764.4	2411.0
4662.7	4302.0	3888.2	3491.9	3118.5	2745.7	2375.4
4824.4	4400.3	3931.6	3507.6	3106.5	2716.2	2327.1
4916.6	4454.0	3942.5	3496.1	3081.7	2674.0	2274.6
4950.4	4470.3	3931.6	3472.6	3059.4	2628.7	2237.9
4946.8	4461.2	3891.8	3417.7	2999.7	2568.4	2192.6
4878.6	4377.4	3810.4	3352.0	2949.0	2540.7	2195.6
4762.8	4324.3	3786.3	3365.2	2975.6	2600.4	2290.9
4710.3	4430.5	3922.0	3497.9	3111.9	2771.1	2487.6
4680.8	4603.0	4116.2	3640.9	3273.5	2978.0	2722.2
4560.2	4652.4	4226.6	3722.3	3417.7	3185.5	2956.9
4365.3	4537.2	4142.7	3706.6	3497.3	3344.7	3041.3
3958.8	4140.3	3769.4	3475.6	3397.8	3347.1	2914.6
3207.2	3301.3	3090.2	3023.8	3052.8	3053.4	2444.7
2365.1	2308.4	2213.1	2217.9	2412.8	2382.6	1742.6
1930.8	1580.4	1445.3	1496.5	1737.2	1607.5	1094.8
1796.9	1409.7	1163.6	1175.6	1311.9	1035.7	659.3
1453.1	1284.8	1030.3	924.7	897.6	690.1	447.6
608.0	559.2	416.2	375.2	307.6	188.2	85.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)