

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: P146233

Luminaire Tested: **VPL-F04-LED-E1-CPR-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P146233
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33704)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: VPL-F04-LED-E1-CPR-8030
Description: VALET LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER RIGHT
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7506.5 lumens
Efficiency: N/A
Efficacy: 73.4 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

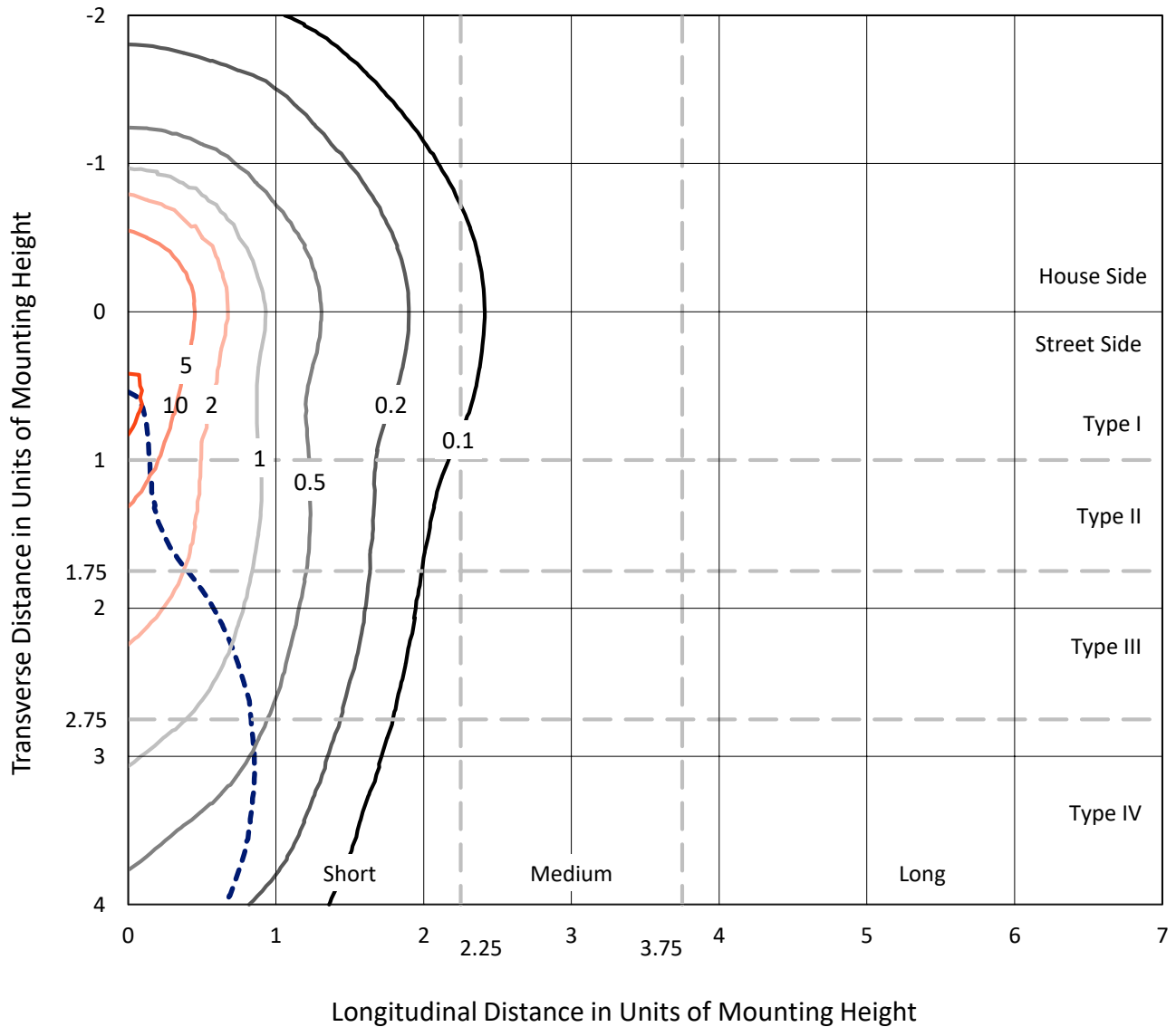
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

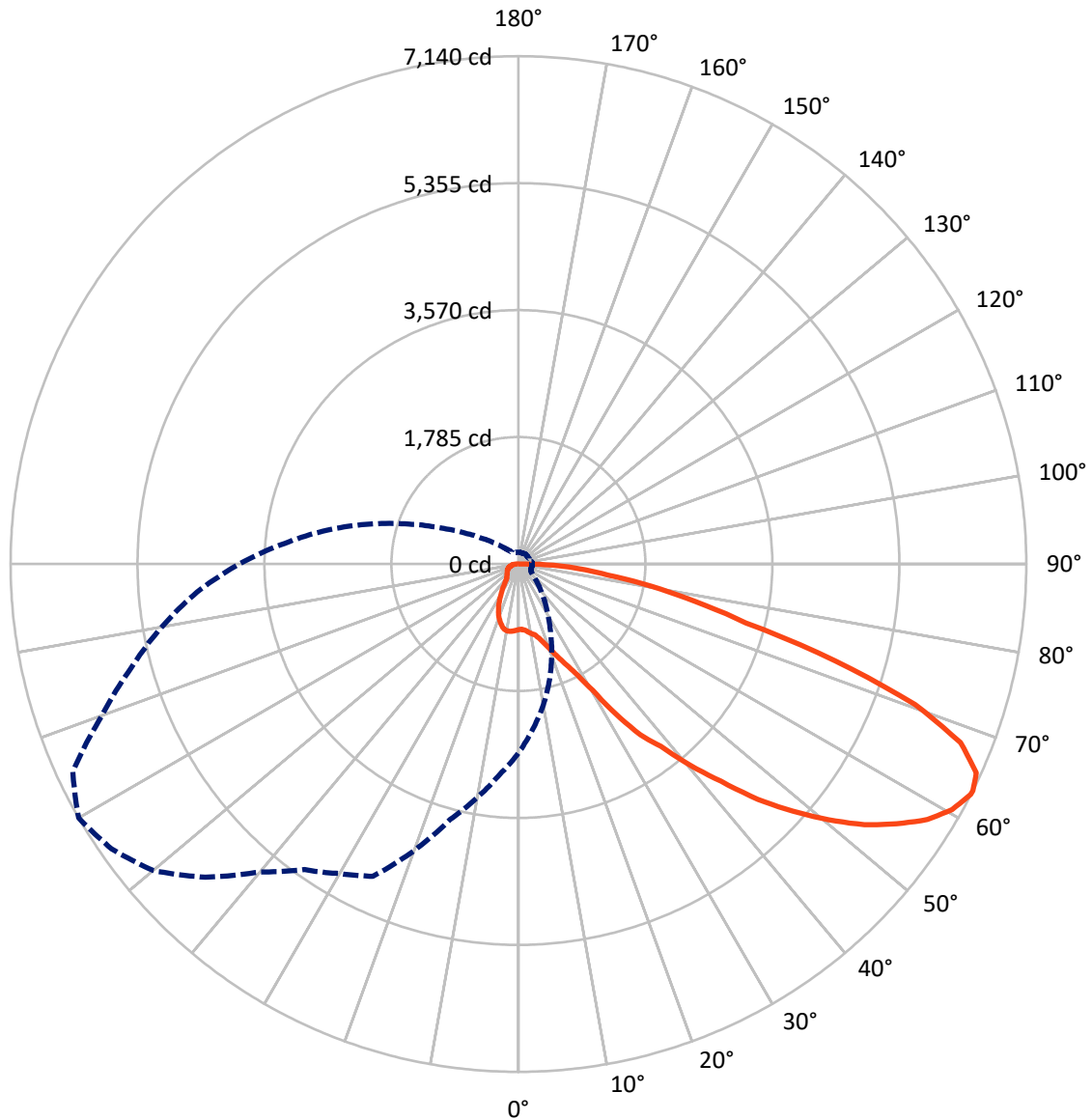
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1571.3	0.0	1571.3
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	5935.1	0.0	5935.1
	% Fixture	79.1	0.0	79.1
Total	Lumens	7506.5	0.0	7506.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	90.5	1.2
10°-20°	282.6	3.8
20°-30°	499.7	6.7
30°-40°	789.0	10.5
40°-50°	1160.2	15.5
50°-60°	1528.2	20.4
60°-70°	1703.4	22.7
70°-80°	1119.1	14.9
80°-90°	333.7	4.4
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°	7506.5	100.0
0°-180°	7506.5	100.0



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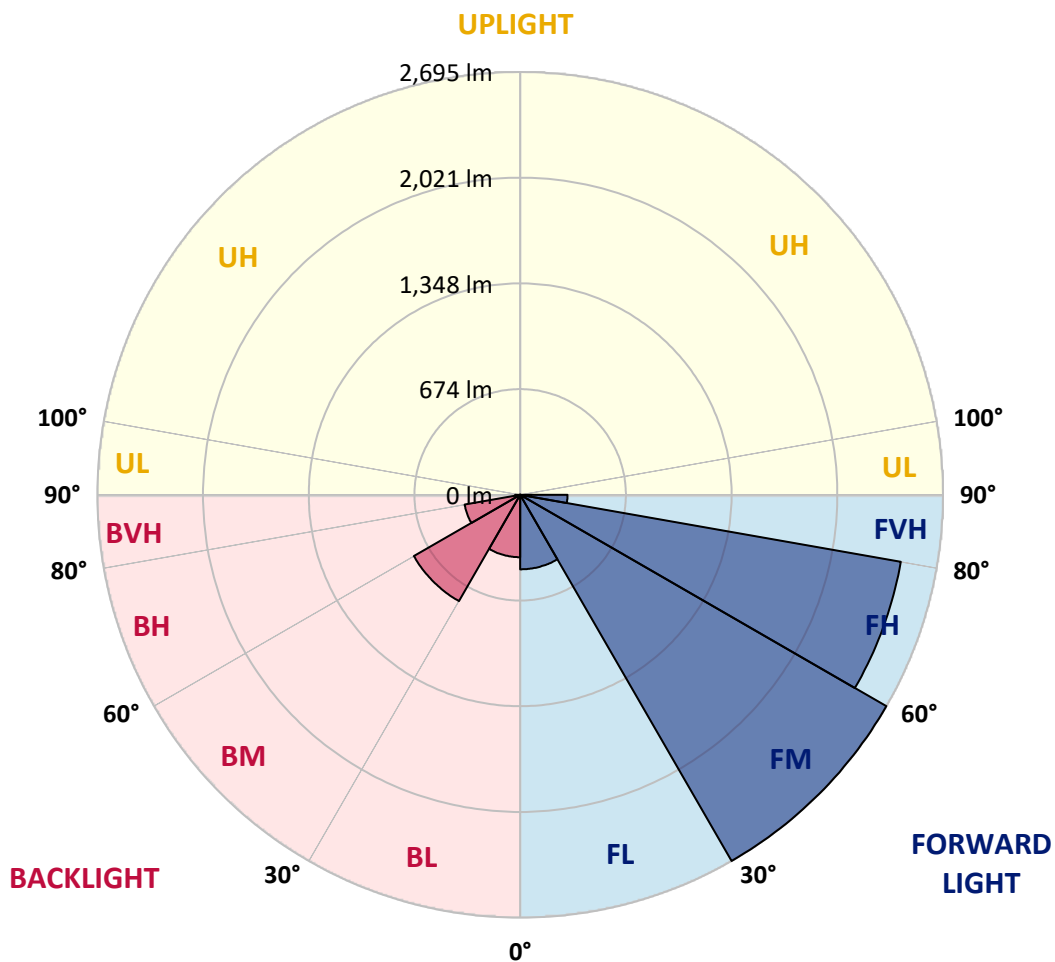
CATALOG NUMBER: VPL-F04-LED-E1-CPR-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	475.1	6.3			
FM	(30°-60°)	2695.0	35.9			
FH	(60°-80°)	2463.4	32.8			G2/5000
FVH	(80°-90°)	301.6	4.0			G3/500
BL	(0°-30°)	397.8	5.3	B1/500		
BM	(30°-60°)	782.3	10.4	B1/1000		
BH	(60°-80°)	359.1	4.8	B1/500		G1/500
BVH	(80°-90°)	32.1	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°	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9
2.5°	920.8	922.5	922.5	920.8	922.5	921.9	921.9	923.6	924.2	926.9	925.3
5°	916.3	916.9	917.5	916.3	916.9	916.9	918.0	919.7	920.2	923.6	921.9
7.5°	911.3	912.4	910.2	910.8	912.4	914.7	914.7	916.9	920.8	922.5	921.9
10°	914.1	913.0	911.3	910.8	911.9	912.4	913.6	917.5	920.8	922.5	925.3
12.5°	935.9	932.5	930.8	930.3	930.8	929.7	933.6	934.7	935.9	938.1	937.0
15°	977.1	972.6	969.9	967.1	973.2	970.4	970.4	967.1	961.5	953.1	942.5
17.5°	1034.5	1029.5	1027.3	1026.2	1026.7	1021.7	1011.7	995.5	976.0	953.7	933.1
20°	1117.0	1124.8	1121.5	1106.4	1100.8	1078.5	1046.8	1013.3	979.3	943.7	909.7
22.5°	1259.7	1255.2	1240.2	1202.8	1169.4	1119.2	1062.4	1008.3	958.2	906.3	861.7
25°	1425.2	1387.9	1345.5	1272.0	1195.0	1112.5	1030.6	966.5	899.6	842.8	789.3
27.5°	1628.1	1547.3	1439.2	1319.3	1204.5	1094.7	997.7	913.0	836.6	775.9	716.2
30°	1827.7	1692.8	1542.3	1383.4	1228.5	1080.2	952.0	853.9	765.9	687.8	627.6
32.5°	1965.9	1802.6	1615.3	1419.1	1230.7	1056.8	901.9	784.8	685.6	607.0	534.5
35°	2079.6	1875.6	1641.0	1413.5	1195.0	1002.2	830.0	700.1	594.7	513.4	449.8
37.5°	2157.7	1913.0	1639.3	1381.2	1131.5	915.2	747.5	615.4	517.3	441.5	382.9
40°	2212.3	1924.7	1617.5	1326.0	1058.5	831.1	659.4	539.0	453.2	394.1	351.7
42.5°	2238.5	1916.9	1585.2	1273.6	986.0	763.1	593.1	487.7	418.0	373.5	342.2
45°	2249.6	1897.9	1549.0	1222.4	926.9	704.5	559.1	472.1	417.5	379.0	345.0
47.5°	2246.8	1877.3	1516.7	1180.0	891.8	688.9	565.7	493.3	438.1	390.2	346.7
50°	2239.0	1858.3	1496.0	1164.4	891.3	712.3	603.1	529.0	462.1	400.2	345.0
52.5°	2238.5	1856.7	1507.2	1182.8	923.6	765.3	659.4	570.2	485.5	411.4	345.6
55°	2251.8	1886.8	1554.6	1232.4	1001.6	839.4	722.9	614.2	511.7	419.2	343.9
57.5°	2305.9	1962.0	1644.3	1343.3	1102.0	929.7	784.2	647.1	521.7	416.9	336.1
60°	2424.6	2094.1	1782.5	1499.9	1230.7	1012.2	820.5	658.3	517.3	403.5	319.4
62.5°	2609.7	2285.3	1972.0	1653.8	1345.0	1061.8	828.8	649.4	499.4	381.3	298.8
63°	2657.1	2329.3	2010.5	1685.5	1364.5	1066.8	828.3	646.0	494.4	375.7	293.7
65°	2854.9	2518.3	2164.9	1790.3	1416.9	1076.9	815.5	624.8	472.1	349.5	270.9
67.5°	3152.6	2726.7	2318.2	1887.9	1445.9	1059.0	775.3	572.4	414.7	303.8	236.9
70°	3351.0	2865.0	2409.6	1919.6	1411.9	977.7	683.4	479.9	338.9	250.3	202.3
72.5°	3356.0	2741.2	2285.8	1754.7	1219.0	806.5	535.1	362.9	263.6	203.4	174.5
75°	2997.6	2316.5	1868.4	1440.8	938.1	570.2	376.2	264.8	202.3	167.8	151.1
77.5°	2228.4	1690.0	1348.3	969.3	609.2	369.5	262.0	196.2	160.5	138.8	126.5
80°	1382.9	1056.3	818.2	579.7	365.1	245.8	191.7	156.1	134.9	115.9	105.9
82.5°	833.9	591.4	462.1	350.0	233.5	177.2	147.7	131.5	114.3	97.5	89.7
85°	610.9	423.1	309.9	216.3	144.4	117.1	103.7	100.3	88.6	75.2	70.8
87.5°	192.3	201.8	209.6	127.6	69.7	53.0	45.1	53.0	50.7	35.7	39.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9
2.5°	928.1	930.3	928.6	928.6	927.5	926.9	930.8	929.7	930.8	930.3	931.4
5°	924.7	926.4	925.3	926.4	925.3	925.3	930.3	930.3	932.5	933.6	936.4
7.5°	925.8	926.4	925.8	927.5	926.4	925.3	928.1	929.7	933.6	937.0	939.8
10°	929.7	931.4	930.8	930.8	927.5	925.3	926.9	928.1	932.0	933.6	937.0
12.5°	939.2	937.0	932.5	929.7	921.9	917.5	915.2	914.1	916.9	919.1	920.8
15°	937.0	924.7	914.7	906.3	894.6	887.4	881.8	881.2	881.8	882.3	884.0
17.5°	914.1	897.4	877.3	866.7	853.4	845.6	841.7	838.9	838.3	839.4	842.2
20°	881.2	856.7	834.4	816.0	801.5	789.3	792.0	785.9	788.7	790.4	795.4
22.5°	831.1	797.1	771.4	749.1	731.9	719.0	719.0	713.5	714.6	719.6	726.3
25°	749.7	717.9	681.1	665.5	646.0	637.1	635.4	634.3	638.8	644.9	648.8
27.5°	676.1	632.6	596.4	575.8	555.2	557.4	546.2	552.9	557.9	563.0	567.4
30°	576.9	541.2	508.3	487.7	463.2	463.7	465.4	466.5	471.0	477.7	486.6
32.5°	481.6	443.1	412.5	390.2	375.7	371.2	365.1	375.1	380.7	387.4	396.3
35°	403.0	362.9	337.2	317.7	309.4	303.2	301.5	300.4	305.4	308.8	316.0
37.5°	346.7	319.4	300.4	286.5	278.7	272.0	270.3	269.2	268.7	267.5	272.0
40°	323.8	302.1	285.9	273.1	265.9	262.0	260.3	258.1	255.8	253.1	252.5
42.5°	317.2	293.7	274.8	262.0	256.4	255.8	255.8	254.7	252.5	248.6	245.8
45°	314.4	285.9	264.2	254.2	250.3	250.8	250.8	250.8	249.2	245.3	240.8
47.5°	309.4	276.5	254.2	245.8	244.1	245.3	246.4	246.4	245.3	241.9	236.9
50°	299.9	262.0	238.6	230.8	230.2	230.8	230.8	231.9	230.8	228.0	223.5
52.5°	292.6	250.8	226.9	220.7	220.7	220.2	219.6	219.6	219.1	216.8	213.5
55°	285.9	243.6	221.8	216.8	217.9	217.9	216.8	216.3	214.0	211.3	207.9
57.5°	276.5	235.8	216.8	213.5	214.6	214.0	213.5	212.9	210.7	207.3	202.9
60°	259.7	221.8	206.8	204.6	206.2	206.8	209.0	209.6	208.5	204.6	198.4
62.5°	241.3	204.6	193.4	191.7	193.4	195.1	196.8	195.6	195.6	191.7	186.2
63°	235.2	201.8	189.5	189.5	191.2	192.9	194.0	192.9	193.4	189.0	183.4
65°	221.3	191.7	182.3	182.8	184.5	185.6	186.2	186.2	185.6	182.3	177.2
67.5°	197.9	177.2	171.7	174.5	176.7	177.2	177.2	178.4	177.2	175.0	170.6
70°	176.7	163.3	159.4	162.8	163.9	164.4	164.4	164.4	163.3	161.1	157.2
72.5°	160.5	153.8	153.3	152.7	153.3	151.6	151.6	150.5	147.7	146.0	142.7
75°	142.7	139.3	139.9	139.3	138.2	137.7	134.9	133.8	130.4	128.2	123.7
77.5°	122.6	123.2	122.6	123.2	124.3	124.9	121.0	118.2	115.4	113.1	110.9
80°	102.0	103.1	102.0	103.1	103.7	103.7	99.8	95.3	93.1	94.8	95.3
82.5°	90.9	90.9	86.4	87.5	86.4	84.7	81.9	80.3	78.6	77.5	80.3
85°	71.9	72.5	73.6	72.5	70.2	68.6	65.8	63.5	61.9	63.5	67.4
87.5°	42.9	46.3	44.6	44.6	44.0	44.0	41.8	40.7	39.0	45.7	49.1
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°	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9
2.5°	930.8	932.5	933.1	932.5	933.1	934.2	929.7	934.2	934.7	931.4	932.5
5°	938.6	941.4	945.3	945.3	948.1	949.8	947.6	953.7	954.8	954.2	957.0
7.5°	944.2	948.1	953.1	955.9	960.9	963.2	964.8	970.4	971.5	973.8	976.0
10°	943.7	949.2	953.7	961.5	967.6	972.1	975.4	981.6	983.8	987.1	988.8
12.5°	927.5	933.6	942.0	953.1	964.3	971.5	980.4	989.4	992.7	997.2	1000.0
15°	891.3	896.3	908.0	922.5	937.5	955.9	968.7	982.7	988.8	993.3	997.2
17.5°	843.9	848.3	858.9	871.8	891.8	909.7	929.2	950.3	960.9	966.0	967.6
20°	799.9	806.5	809.3	824.4	831.1	848.9	865.6	889.0	902.4	911.3	916.9
22.5°	730.7	734.1	748.6	754.7	759.7	770.9	791.5	812.1	830.0	844.4	848.9
25°	654.4	663.3	671.1	676.1	687.8	688.4	705.1	719.6	741.9	755.8	767.0
27.5°	570.2	583.6	588.0	591.4	600.3	610.9	617.0	631.5	644.3	660.5	680.6
30°	485.5	498.3	507.2	512.2	520.6	530.6	535.1	544.6	561.3	579.1	594.7
32.5°	406.3	419.7	424.2	440.3	442.6	452.0	455.4	470.4	479.9	495.0	513.4
35°	328.9	342.8	356.2	365.1	375.1	374.6	383.5	397.4	405.8	421.4	433.6
37.5°	275.9	284.3	293.7	303.8	314.9	323.3	331.6	337.8	344.5	355.1	366.2
40°	252.5	254.7	258.6	264.8	272.6	278.7	284.8	289.8	294.9	303.2	310.5
42.5°	243.0	241.3	241.3	240.2	243.0	246.4	251.4	253.1	260.9	265.9	268.7
45°	236.3	232.4	229.6	226.3	225.2	226.3	229.1	233.0	238.0	239.7	239.7
47.5°	232.4	226.3	221.8	216.8	214.0	214.0	215.7	218.5	221.3	221.8	221.3
50°	219.1	212.9	207.3	202.9	200.7	200.7	201.2	205.1	205.7	204.6	205.1
52.5°	209.0	202.9	197.3	193.4	190.6	191.2	192.9	194.5	196.2	195.1	194.0
55°	202.9	195.6	190.6	186.2	182.8	183.9	185.6	187.8	190.6	189.0	187.3
57.5°	197.3	191.2	185.1	180.6	176.7	177.8	179.5	182.8	186.2	182.8	180.6
60°	192.3	186.2	180.0	175.6	171.1	172.2	174.5	177.8	180.6	176.1	173.3
62.5°	180.0	174.5	170.0	167.8	165.0	166.7	168.3	172.2	171.1	166.7	163.3
63°	177.8	172.2	168.3	166.1	163.9	166.1	166.7	170.6	168.9	164.4	161.6
65°	171.1	166.7	162.8	160.5	158.3	159.4	159.4	161.1	158.9	155.5	153.3
67.5°	165.0	160.0	156.1	151.6	149.4	148.3	147.7	147.2	145.5	143.8	143.2
70°	151.6	148.3	144.9	141.0	137.7	135.4	134.3	133.2	132.1	131.5	131.0
72.5°	137.1	134.3	131.0	128.8	126.0	124.3	121.5	121.0	119.8	118.7	118.2
75°	121.5	118.2	117.1	114.8	113.1	112.0	109.8	109.2	108.1	106.5	105.9
77.5°	107.6	106.5	104.8	104.2	101.4	99.8	98.7	98.1	97.0	95.9	94.8
80°	95.9	95.3	94.2	93.6	92.0	89.7	88.6	89.2	87.5	87.0	85.3
82.5°	86.4	87.0	87.0	85.3	83.6	80.8	79.7	81.4	80.3	78.0	75.8
85°	73.6	73.0	73.6	73.0	69.7	66.9	65.8	66.9	66.3	63.0	62.4
87.5°	52.4	51.8	50.7	54.1	49.6	40.1	41.2	46.8	45.1	43.5	42.4
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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CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9
2.5°	934.7	933.1	934.2	934.7	933.1	937.0	933.1	933.6	934.7	931.4	930.8
5°	959.3	959.3	963.7	964.3	963.7	968.7	968.2	968.7	967.6	967.1	964.8
7.5°	979.3	981.6	984.9	989.9	991.6	995.5	996.6	997.2	999.4	1001.6	1000.5
10°	993.8	1000.0	1002.7	1007.8	1012.8	1015.6	1018.3	1022.8	1024.5	1026.2	1023.9
12.5°	1003.9	1011.1	1015.6	1021.7	1027.8	1032.3	1037.3	1042.9	1048.4	1050.1	1047.3
15°	998.8	1007.2	1013.9	1020.6	1030.1	1038.4	1047.9	1057.9	1065.2	1068.0	1064.6
17.5°	967.6	976.0	986.0	996.1	1006.1	1021.7	1035.1	1051.8	1063.5	1071.9	1073.0
20°	924.7	929.7	944.2	954.2	970.4	988.8	1008.9	1028.4	1041.8	1056.8	1065.7
22.5°	861.2	871.2	887.4	904.6	920.8	944.8	966.0	991.6	1014.4	1035.1	1054.6
25°	783.7	797.6	816.6	840.5	861.7	887.4	918.0	946.4	984.9	1017.2	1059.0
27.5°	700.1	725.7	751.9	777.0	800.4	829.4	861.2	892.9	937.0	988.8	1043.4
30°	620.9	642.1	675.0	704.0	731.3	767.0	799.9	835.0	876.8	938.1	1000.0
32.5°	538.4	555.7	581.4	617.0	648.8	690.6	719.6	761.4	809.9	874.5	944.8
35°	453.2	477.1	497.7	522.3	546.2	588.0	631.5	677.8	733.5	802.6	879.6
37.5°	377.9	393.0	403.0	428.1	449.3	484.9	535.7	591.4	652.7	722.9	805.4
40°	315.5	325.0	336.1	352.8	370.7	403.0	449.8	512.2	576.3	646.6	729.1
42.5°	272.6	278.7	279.8	292.6	309.4	341.1	378.5	435.9	506.7	580.2	662.7
45°	243.0	243.0	242.5	248.0	261.4	288.7	322.7	374.0	441.5	518.4	604.2
47.5°	222.4	224.1	223.5	225.7	234.7	254.7	285.4	328.9	390.2	465.4	551.8
50°	206.8	209.0	209.6	210.1	213.5	230.2	256.4	291.5	346.1	418.0	505.0
52.5°	194.5	195.1	195.1	194.5	195.6	205.1	226.9	259.2	309.9	374.6	458.2
55°	187.8	188.4	188.4	188.4	188.4	194.5	210.1	236.3	277.0	337.8	413.6
57.5°	180.0	180.0	181.2	181.2	181.2	183.4	194.5	216.3	247.5	296.0	363.4
60°	173.3	175.0	177.2	177.8	177.2	177.2	182.8	197.3	217.9	253.1	309.9
62.5°	163.3	165.5	168.3	169.4	170.0	168.9	171.7	177.8	190.1	208.5	246.9
63°	161.6	163.9	166.1	167.2	167.8	166.7	168.9	173.9	183.9	199.0	233.5
65°	154.4	157.2	157.7	158.3	157.7	157.2	156.6	156.6	159.4	165.0	183.4
67.5°	144.4	146.0	146.0	147.2	144.4	143.2	142.1	141.0	139.3	139.9	146.6
70°	132.7	133.8	133.2	132.7	131.5	129.9	128.8	127.1	123.7	122.6	126.0
72.5°	119.3	120.4	120.4	120.4	118.2	117.1	115.9	114.8	113.7	114.8	115.9
75°	107.0	107.0	108.1	107.6	105.9	104.8	104.2	103.7	103.7	103.7	103.1
77.5°	95.3	94.8	94.8	93.1	92.0	91.4	92.5	93.1	92.5	91.4	90.9
80°	85.3	82.5	79.7	77.5	76.9	78.0	79.1	82.5	80.8	80.8	79.7
82.5°	72.5	66.3	62.4	63.0	61.3	61.9	63.0	66.9	65.8	66.3	68.6
85°	58.0	52.4	46.3	47.4	47.4	46.3	49.1	50.2	51.3	54.1	51.8
87.5°	40.7	35.7	29.5	25.6	26.8	27.9	29.0	27.9	24.5	25.6	25.1
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°	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9
2.5°	929.7	930.3	930.3	926.4	925.3	926.4	925.8	925.8	922.5	923.0	921.9
5°	963.7	964.8	961.5	958.7	954.8	954.2	953.7	951.5	949.2	944.8	942.5
7.5°	1000.0	994.9	993.8	988.8	987.1	982.7	979.3	976.0	973.2	971.0	969.3
10°	1022.8	1018.9	1017.8	1008.9	1006.1	1000.5	997.2	993.3	989.9	986.6	986.0
12.5°	1043.4	1036.7	1032.8	1020.6	1015.0	1008.9	1006.1	1002.7	1001.6	1001.1	1003.3
15°	1059.6	1050.1	1042.9	1031.7	1027.3	1023.9	1024.5	1022.8	1029.5	1033.4	1040.6
17.5°	1070.2	1066.3	1064.6	1056.3	1059.0	1059.0	1066.8	1070.7	1083.0	1093.0	1103.1
20°	1075.8	1083.0	1096.9	1099.7	1106.4	1113.7	1125.4	1132.1	1144.9	1159.4	1173.3
22.5°	1080.8	1111.4	1139.9	1161.0	1176.1	1192.8	1201.2	1215.1	1224.0	1234.6	1255.8
25°	1108.6	1159.9	1210.1	1237.4	1273.1	1297.0	1316.0	1329.9	1345.5	1354.5	1378.4
27.5°	1100.8	1166.1	1232.9	1283.1	1338.8	1384.0	1424.1	1450.9	1470.9	1503.3	1523.3
30°	1065.2	1141.0	1221.8	1293.1	1371.2	1444.8	1514.4	1576.9	1630.4	1673.8	1703.4
32.5°	1014.4	1101.4	1196.2	1284.2	1384.0	1482.1	1582.4	1677.7	1768.6	1840.5	1885.6
35°	957.6	1051.2	1156.0	1260.3	1380.1	1508.3	1643.7	1771.9	1903.5	2018.3	2108.6
37.5°	888.5	989.9	1104.7	1225.7	1363.4	1517.2	1687.8	1862.2	2030.0	2203.9	2331.0
40°	816.0	915.2	1034.5	1172.7	1331.6	1512.8	1721.8	1948.1	2191.1	2415.2	2608.6
42.5°	754.1	851.1	976.0	1112.5	1283.7	1496.0	1744.6	2025.0	2324.3	2614.7	2871.7
45°	693.4	797.1	923.0	1067.4	1254.1	1489.3	1774.2	2091.9	2433.6	2778.0	3105.8
47.5°	645.5	748.0	875.1	1030.1	1230.2	1485.4	1802.0	2154.3	2522.7	2899.5	3288.0
50°	599.7	697.9	821.6	984.9	1205.1	1479.3	1818.8	2203.9	2592.4	2994.8	3417.3
52.5°	552.9	654.9	775.3	933.6	1172.2	1467.0	1823.8	2242.9	2664.3	3086.3	3538.3
55°	505.6	607.6	727.9	891.8	1127.6	1443.1	1819.9	2271.4	2739.6	3182.7	3648.7
57.5°	447.6	547.9	673.9	838.9	1070.2	1395.1	1800.9	2283.6	2786.4	3273.0	3759.6
60°	382.4	477.1	596.4	764.7	1000.0	1326.0	1758.6	2266.3	2807.6	3332.6	3877.2
62.5°	300.4	382.9	492.7	659.9	898.0	1226.3	1666.0	2190.0	2756.3	3317.6	3927.9
63°	282.0	361.7	474.9	632.1	867.9	1191.7	1638.7	2163.8	2733.4	3303.6	3921.8
65°	215.2	274.2	367.9	508.3	733.5	1032.3	1494.9	2015.5	2589.6	3164.9	3825.4
67.5°	158.9	189.5	246.9	341.1	516.1	803.2	1225.1	1740.7	2284.2	2824.8	3497.1
70°	131.5	143.2	170.0	218.5	319.4	532.9	865.6	1324.9	1836.0	2301.5	2908.5
72.5°	117.6	126.0	138.2	160.0	201.8	312.7	563.0	860.1	1278.6	1681.1	2193.9
75°	105.3	110.9	121.0	133.8	152.7	195.6	297.6	510.0	781.5	1132.6	1504.9
77.5°	92.5	98.1	108.1	118.2	130.4	148.8	184.5	290.4	467.6	661.1	923.6
80°	80.3	83.1	91.4	105.9	114.8	129.9	141.6	181.7	254.7	346.1	492.2
82.5°	66.3	66.9	72.5	83.6	94.8	100.3	103.7	114.3	146.6	182.8	241.3
85°	47.4	45.1	48.5	53.0	61.9	56.9	60.8	64.1	78.0	94.2	172.8
87.5°	21.2	16.7	19.5	21.7	19.5	13.4	19.5	16.2	20.1	39.6	44.6
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: VPL-F04-LED-E1-CPR-8030

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	921.9	0°
2.5°	923.0	919.7	919.7	919.1	919.7	918.6	916.3	916.3	918.0	917.5	917.5	2.5°
5°	942.5	938.1	937.0	936.4	936.4	933.6	930.3	928.6	928.1	925.8	924.2	5°
7.5°	968.2	965.4	967.1	963.7	962.6	962.1	957.6	954.2	949.2	947.0	938.6	7.5°
10°	989.4	987.7	992.2	991.6	992.2	992.2	986.0	982.7	975.4	971.5	960.9	10°
12.5°	1007.8	1008.9	1017.2	1017.2	1018.9	1021.1	1017.8	1010.5	1007.8	1003.9	992.7	12.5°
15°	1054.6	1059.0	1065.2	1075.2	1078.0	1078.5	1081.3	1075.2	1068.0	1057.9	1044.5	15°
17.5°	1118.1	1127.0	1147.7	1162.2	1164.9	1167.7	1166.1	1164.9	1151.6	1143.2	1129.3	17.5°
20°	1197.8	1219.6	1248.6	1268.6	1277.5	1278.6	1289.8	1282.0	1269.7	1253.0	1232.9	20°
22.5°	1287.0	1323.2	1360.0	1389.6	1406.8	1414.7	1426.4	1415.2	1399.0	1389.0	1362.3	22.5°
25°	1409.1	1448.7	1491.0	1514.4	1558.5	1571.3	1578.0	1574.6	1557.9	1565.1	1540.6	25°
27.5°	1576.3	1610.3	1669.9	1699.5	1740.7	1764.7	1759.7	1787.5	1792.6	1809.8	1812.6	27.5°
30°	1758.6	1814.9	1895.1	1954.8	2017.7	2058.4	2090.8	2115.3	2143.7	2191.7	2220.6	30°
32.5°	1955.3	2036.7	2139.3	2265.8	2399.6	2508.8	2632.0	2653.2	2716.7	2698.3	2686.1	32.5°
35°	2174.4	2276.9	2408.5	2574.6	2769.1	2949.7	3068.4	3128.1	3153.1	3167.1	3082.4	35°
37.5°	2467.6	2606.3	2752.9	2934.1	3082.9	3251.8	3388.4	3536.6	3604.6	3572.3	3410.1	37.5°
40°	2792.5	2922.4	3120.8	3269.1	3444.7	3722.8	3907.9	4086.2	4142.0	4034.4	3780.2	40°
42.5°	3118.6	3297.0	3512.1	3722.8	3924.6	4176.5	4421.8	4597.9	4659.2	4475.3	4173.7	42.5°
45°	3409.0	3637.5	3890.6	4106.8	4388.9	4718.3	5018.7	5160.3	5149.2	4853.7	4514.3	45°
47.5°	3662.0	3958.6	4244.0	4535.5	4819.7	5191.5	5489.2	5651.9	5536.5	5226.1	4841.5	47.5°
50°	3871.1	4229.5	4573.9	4908.9	5257.8	5653.0	5940.1	6090.6	5915.0	5522.0	5092.3	50°
52.5°	4029.9	4474.2	4871.0	5245.6	5662.5	6089.5	6344.8	6435.6	6161.9	5751.1	5280.1	52.5°
55°	4179.9	4682.1	5121.3	5546.6	6065.5	6448.4	6687.5	6670.8	6317.4	5850.9	5397.7	55°
57.5°	4293.0	4859.3	5327.0	5811.3	6370.4	6779.5	6917.7	6807.4	6382.1	5880.4	5431.8	57.5°
60°	4435.7	4997.5	5509.8	6050.5	6660.2	7006.4	7024.8	6826.9	6363.7	5824.7	5383.8	60°
62.5°	4527.1	5083.9	5626.3	6214.3	6881.0	7134.0	7002.5	6742.7	6257.8	5687.0	5274.0	62.5°
63°	4536.0	5092.3	5635.8	6230.5	6912.2	7139.6	6981.8	6704.8	6226.6	5649.1	5245.0	63°
65°	4495.9	5068.3	5592.3	6201.5	6920.0	7073.8	6830.8	6549.3	6054.4	5455.7	5074.5	65°
67.5°	4215.5	4810.8	5310.8	5882.1	6619.0	6704.3	6460.7	6154.7	5689.8	5038.8	4701.6	67.5°
70°	3713.3	4279.1	4633.6	5164.2	5812.4	5914.4	5696.5	5459.6	5046.6	4502.6	4222.8	70°
72.5°	2991.5	3547.2	3760.1	4166.5	4681.5	4659.2	4505.9	4476.4	4259.0	3802.5	3634.2	72.5°
75°	2236.2	2765.2	2854.9	3020.5	3308.1	3300.9	3336.5	3463.6	3572.3	3302.5	3086.8	75°
77.5°	1474.8	2001.0	2056.8	2249.6	2329.3	2547.8	2804.2	3123.6	3281.9	3171.5	2906.8	77.5°
80°	816.0	1368.9	1357.8	1433.0	1574.1	1891.8	2280.3	2754.6	3071.2	2992.1	2702.2	80°
82.5°	424.2	865.1	852.2	865.6	996.6	1263.6	1559.0	1947.0	2274.1	2281.4	2183.8	82.5°
85°	315.5	620.9	657.7	687.8	774.8	867.9	921.9	1046.2	1225.7	1392.9	1452.6	85°
87.5°	115.9	372.9	464.3	498.9	501.1	489.4	398.5	438.7	399.1	472.1	659.4	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°
921.9	921.9	921.9	921.9	921.9	921.9	921.9
918.6	918.6	918.0	919.1	919.7	921.4	920.8
922.5	920.8	919.1	918.0	916.9	917.5	916.3
932.5	926.9	922.5	918.6	915.2	914.7	911.3
954.8	944.8	936.4	930.3	923.6	920.2	914.1
983.2	972.1	961.5	952.6	944.8	940.3	935.9
1032.8	1016.7	1003.9	994.4	986.6	981.6	977.1
1106.4	1086.4	1066.8	1048.4	1046.2	1034.5	1034.5
1207.9	1180.5	1155.5	1139.9	1132.6	1117.0	1117.0
1348.3	1321.6	1284.2	1265.3	1266.9	1253.6	1259.7
1530.0	1507.7	1469.3	1461.5	1461.5	1447.0	1425.2
1802.6	1794.8	1752.4	1763.0	1740.7	1686.7	1628.1
2207.3	2207.3	2125.3	2066.2	2015.0	1930.8	1827.7
2612.5	2559.5	2434.1	2333.8	2227.3	2098.6	1965.9
2954.7	2813.7	2686.6	2564.0	2404.0	2265.8	2079.6
3243.4	3109.7	2964.2	2777.5	2589.6	2396.8	2157.7
3601.3	3438.5	3220.0	2985.4	2754.6	2489.3	2212.3
3928.5	3724.5	3448.6	3151.5	2857.7	2561.8	2238.5
4236.2	3973.1	3632.5	3275.8	2941.3	2606.3	2249.6
4526.0	4173.2	3776.9	3364.4	2998.7	2630.3	2246.8
4717.2	4319.8	3867.7	3417.9	3033.3	2638.7	2239.0
4837.0	4409.5	3921.2	3447.4	3050.6	2640.3	2238.5
4904.5	4460.2	3950.2	3468.1	3069.5	2650.4	2251.8
4956.9	4500.4	3982.5	3503.2	3114.7	2697.2	2305.9
5006.5	4605.7	4066.7	3567.8	3193.3	2784.7	2424.6
5027.1	4805.8	4237.8	3687.1	3303.1	2925.2	2609.7
5025.4	4843.7	4287.4	3720.0	3332.1	2962.5	2657.1
4964.7	4964.1	4513.2	3877.2	3467.0	3135.3	2854.9
4784.6	5024.3	4762.9	4084.5	3676.5	3420.1	3152.6
4499.8	4951.3	4796.9	4139.2	3825.4	3681.6	3351.0
4009.3	4602.4	4478.6	3906.2	3774.6	3732.8	3356.0
3242.9	3699.9	3647.0	3337.1	3385.6	3471.4	2997.6
2612.5	2598.0	2590.2	2477.6	2683.8	2858.3	2228.4
2182.2	1797.6	1669.4	1625.9	1965.9	2099.7	1382.9
2040.0	1614.8	1295.4	1240.7	1473.2	1544.5	833.9
1559.0	1567.9	1357.2	1163.3	1146.0	1049.0	610.9
763.1	775.9	819.9	748.6	642.1	541.2	192.3
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)