

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: P145921

Luminaire Tested: **VPL-E03-LED-E1-CPL-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P145921
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-E03-LED-E1-CPL-7050
Description: VALET LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - 90° FORWARD THROW PERIMETER LEFT
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8291.2 lumens
Efficiency: N/A
Efficacy: 110.3 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

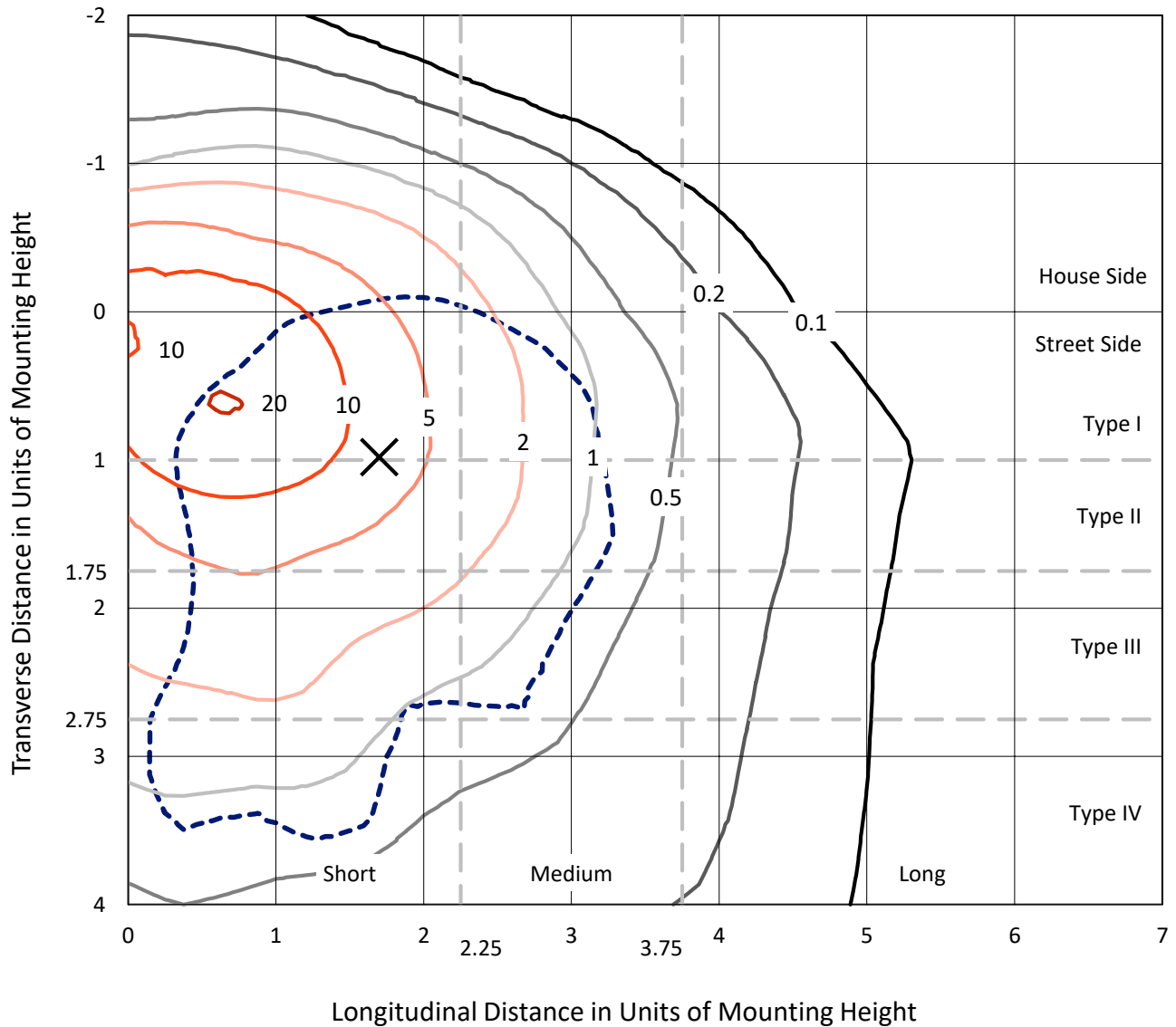
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



REPORT NUMBER: P145921
 CATALOG NUMBER: VPL-E03-LED-E1-CPL-7050

Iso-Footcandle Lines of Horizontal Illumination

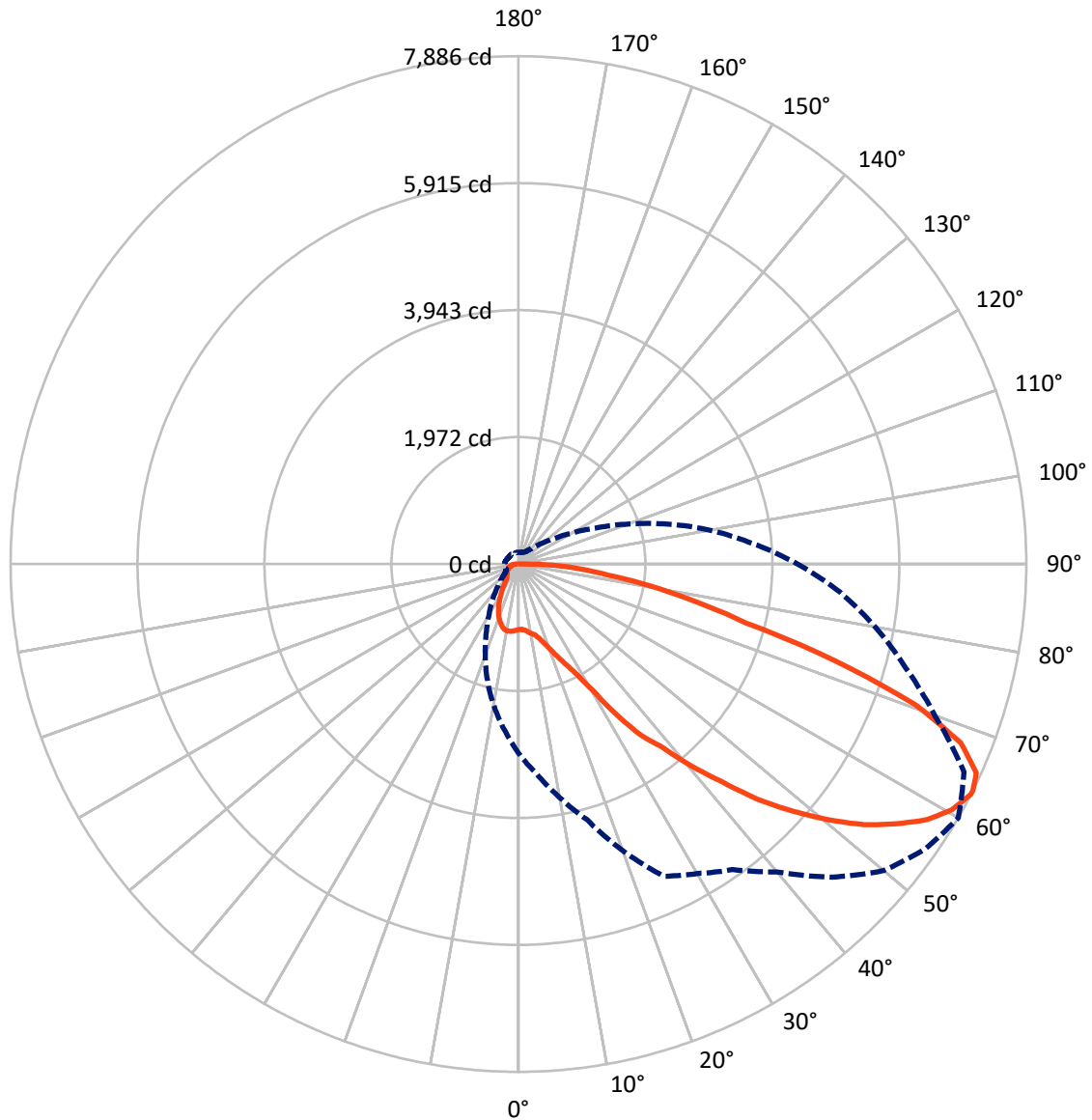
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 20.7 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P145921
CATALOG NUMBER: VPL-E03-LED-E1-CPL-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 60-Deg Lateral - - - Horizontal Cone Through 63-Deg Vertical

REPORT NUMBER: P145921

CATALOG NUMBER: VPL-E03-LED-E1-CPL-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1735.6	0.0	1735.6
	% Fixture	20.9	0.0	20.9
Street Side	Lumens	6555.7	0.0	6555.7
	% Fixture	79.1	0.0	79.1
Total	Lumens	8291.2	0.0	8291.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	100.0	1.2
10°-20°	312.1	3.8
20°-30°	552.0	6.7
30°-40°	871.4	10.5
40°-50°	1281.4	15.5
50°-60°	1688.0	20.4
60°-70°	1881.4	22.7
70°-80°	1236.2	14.9
80°-90°	368.6	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°	8291.2	100.0
0°-180°	8291.2	100.0



REPORT NUMBER: P145921

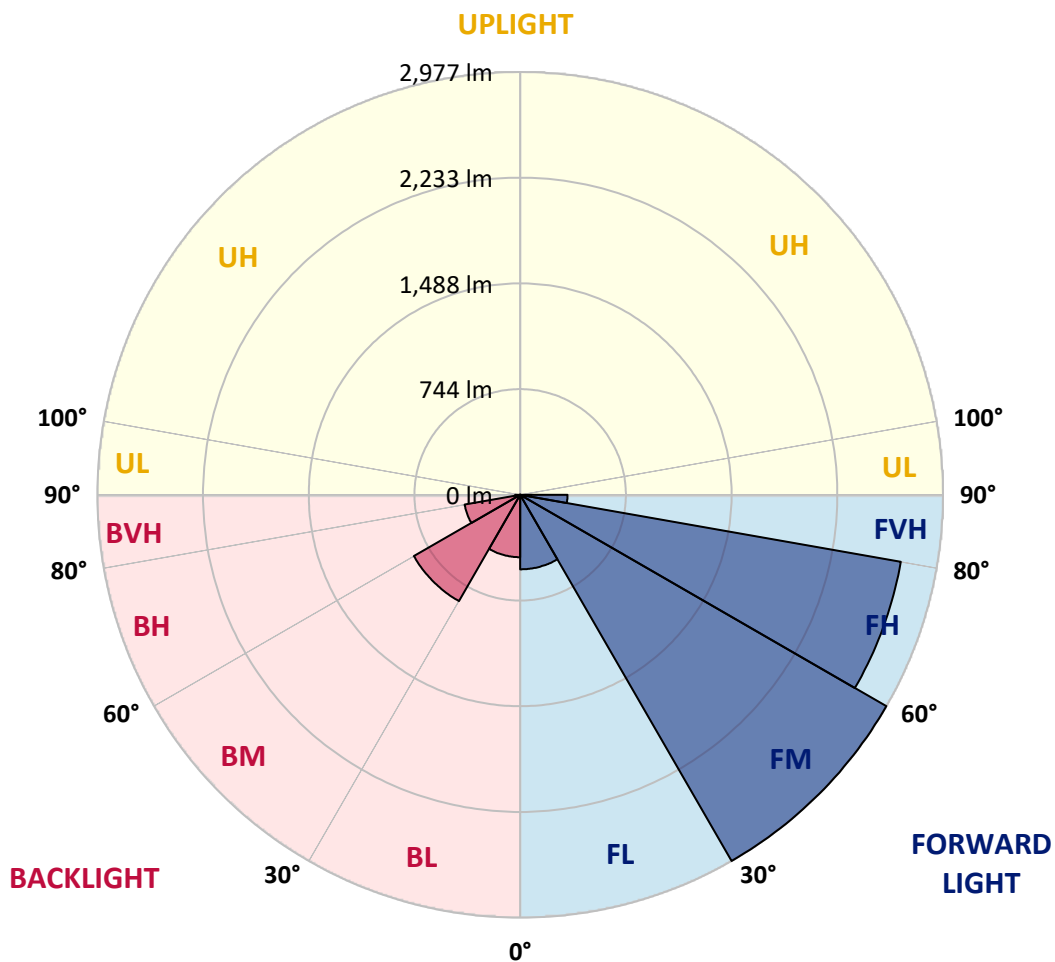
CATALOG NUMBER: VPL-E03-LED-E1-CPL-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	524.8	6.3			
FM	(30°-60°)	2976.8	35.9			
FH	(60°-80°)	2720.9	32.8			G2/5000
FVH	(80°-90°)	333.2	4.0			G3/500
BL	(0°-30°)	439.4	5.3	B1/500		
BM	(30°-60°)	864.1	10.4	B1/1000		
BH	(60°-80°)	396.7	4.8	B1/500		G1/500
BVH	(80°-90°)	35.5	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





REPORT NUMBER: P145921

CATALOG NUMBER: VPL-E03-LED-E1-CPL-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3
2.5°	1017.1	1017.7	1015.8	1015.2	1014.0	1014.6	1014.6	1013.4	1013.4	1014.0	1012.2
5°	1012.2	1013.4	1012.8	1014.0	1015.2	1017.1	1018.9	1020.8	1022.6	1025.1	1025.7
7.5°	1006.6	1010.3	1010.9	1014.6	1018.9	1023.8	1030.0	1036.8	1046.0	1048.5	1054.0
10°	1009.7	1016.5	1020.2	1027.5	1034.3	1043.5	1054.6	1061.4	1073.1	1077.4	1085.4
12.5°	1033.7	1038.6	1043.5	1052.2	1062.0	1073.7	1086.0	1096.5	1108.8	1113.1	1116.2
15°	1079.3	1084.2	1089.7	1098.3	1108.8	1123.0	1140.8	1153.8	1168.5	1179.6	1187.6
17.5°	1142.7	1142.7	1155.6	1158.1	1178.4	1199.9	1222.1	1247.3	1262.7	1272.0	1286.7
20°	1233.8	1233.8	1251.0	1259.0	1276.3	1304.0	1334.1	1361.8	1384.0	1402.5	1416.0
22.5°	1391.4	1384.6	1399.4	1397.6	1418.5	1459.7	1489.3	1504.7	1534.2	1545.3	1563.2
25°	1574.3	1598.3	1614.3	1614.3	1622.9	1665.4	1690.0	1701.7	1728.8	1720.8	1739.2
27.5°	1798.4	1863.0	1922.7	1947.3	1935.6	1982.4	1991.1	2002.1	1999.1	1980.0	1974.4
30°	2018.8	2132.7	2225.6	2282.3	2347.5	2438.0	2438.0	2452.8	2420.8	2367.8	2336.4
32.5°	2171.4	2318.0	2460.2	2577.8	2688.6	2827.1	2885.6	2966.9	2980.4	3000.7	2930.6
35°	2297.0	2502.7	2655.4	2832.1	2967.5	3107.9	3263.6	3404.6	3498.2	3482.8	3455.1
37.5°	2383.2	2647.4	2860.4	3067.9	3274.1	3434.8	3582.5	3766.6	3945.8	3981.5	3906.4
40°	2443.6	2749.6	3042.6	3297.5	3556.7	3798.0	3977.8	4175.4	4456.2	4575.0	4513.4
42.5°	2472.5	2829.6	3156.5	3481.0	3809.1	4113.9	4339.2	4610.1	4943.2	5146.3	5078.6
45°	2484.8	2878.8	3248.9	3618.3	4012.3	4388.4	4679.0	4986.3	5361.2	5687.5	5699.8
47.5°	2481.7	2905.3	3312.3	3716.1	4171.7	4609.5	4999.2	5347.7	5772.5	6115.4	6242.8
50°	2473.1	2914.5	3350.4	3775.2	4272.1	4771.4	5210.4	5624.7	6099.4	6533.4	6727.4
52.5°	2472.5	2916.4	3369.5	3807.9	4331.2	4870.5	5342.7	5832.2	6352.4	6806.2	7108.4
55°	2487.3	2927.5	3390.5	3830.7	4363.2	4926.5	5417.2	5962.1	6462.6	6977.9	7368.3
57.5°	2547.0	2979.2	3440.3	3869.4	4398.9	4970.9	5475.1	5999.6	6495.2	7049.3	7519.1
60°	2678.1	3075.9	3527.1	3940.9	4491.9	5087.2	5529.9	5946.7	6433.7	7029.0	7540.6
62.5°	2882.5	3231.0	3648.4	4072.6	4680.9	5308.2	5552.7	5825.4	6281.6	6912.1	7447.7
63°	2934.9	3272.3	3680.4	4108.9	4735.7	5350.1	5550.8	5793.4	6239.7	6877.6	7405.8
65°	3153.4	3463.1	3829.4	4282.6	4985.0	5483.1	5483.7	5605.0	6026.1	6687.3	7234.0
67.5°	3482.2	3777.7	4060.9	4511.6	5260.8	5549.6	5284.9	5193.1	5565.6	6284.7	6798.2
70°	3701.4	4066.5	4225.3	4571.9	5298.4	5468.9	4970.2	4664.3	4973.3	5574.2	6030.4
72.5°	3706.9	4123.1	4169.3	4314.6	4946.9	5083.5	4428.5	4014.1	4200.1	4704.3	4944.4
75°	3311.0	3834.4	3739.5	3686.0	4028.3	4086.8	3581.9	3409.5	3647.8	3945.8	3825.7
77.5°	2461.4	3157.1	2964.4	2736.6	2861.0	2869.6	2885.6	3210.7	3503.1	3625.0	3450.2
80°	1527.5	2319.2	2171.4	1795.9	1843.9	1985.5	2410.3	2984.7	3304.9	3392.3	3042.6
82.5°	921.0	1706.0	1627.2	1370.5	1430.8	1783.6	2253.3	2412.2	2519.9	2511.9	2150.5
85°	674.8	1158.7	1265.8	1284.9	1499.1	1731.9	1722.0	1604.4	1538.5	1353.8	1155.6
87.5°	212.4	597.8	709.2	826.8	905.6	857.0	842.8	728.3	521.5	440.8	484.5
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: P145921

CATALOG NUMBER: VPL-E03-LED-E1-CPL-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3
2.5°	1012.2	1014.6	1015.8	1015.2	1015.8	1015.8	1019.5	1018.3	1019.5	1018.9	1022.6
5°	1027.5	1031.2	1034.3	1034.3	1034.9	1036.2	1041.1	1041.1	1043.5	1048.5	1050.9
7.5°	1057.7	1062.6	1063.3	1064.5	1068.2	1066.3	1069.4	1070.6	1072.5	1074.9	1078.0
10°	1089.1	1095.9	1095.9	1095.3	1095.9	1091.0	1092.8	1089.1	1089.7	1093.4	1097.1
12.5°	1124.2	1127.9	1125.4	1123.6	1123.6	1114.4	1113.1	1108.2	1105.7	1106.3	1107.6
15°	1194.4	1191.3	1190.7	1187.6	1176.5	1169.8	1164.8	1149.4	1141.4	1137.1	1129.7
17.5°	1288.0	1289.8	1286.7	1283.7	1267.7	1244.9	1235.0	1218.4	1207.3	1196.2	1182.7
20°	1424.6	1412.3	1411.1	1401.2	1379.1	1347.1	1323.1	1296.0	1280.6	1264.6	1250.4
22.5°	1575.5	1562.6	1553.9	1534.8	1502.2	1461.6	1421.6	1387.1	1363.7	1352.0	1342.1
25°	1742.9	1735.6	1721.4	1672.8	1646.9	1600.1	1556.4	1522.5	1496.1	1486.2	1469.0
27.5°	1943.6	1949.2	1922.7	1877.2	1844.5	1778.7	1741.1	1682.6	1660.4	1624.7	1602.6
30°	2309.4	2273.6	2228.7	2159.1	2093.3	2004.6	1942.4	1881.5	1848.8	1800.8	1741.7
32.5°	2907.2	2771.1	2650.4	2502.7	2362.9	2249.6	2159.7	2082.8	2032.9	1953.5	1853.1
35°	3389.2	3258.1	3058.6	2843.7	2660.3	2515.0	2401.7	2329.1	2229.3	2102.5	1957.2
37.5°	3742.6	3591.8	3405.2	3240.9	3040.8	2878.8	2725.5	2574.7	2434.3	2242.2	2056.9
40°	4316.4	4112.0	3804.8	3610.9	3447.1	3227.9	3084.5	2881.3	2667.7	2420.2	2151.7
42.5°	4884.1	4613.2	4334.9	4112.0	3879.3	3641.6	3444.6	3171.9	2888.1	2567.3	2236.7
45°	5543.4	5211.6	4847.7	4536.2	4297.3	4017.8	3765.4	3430.5	3068.5	2688.0	2310.6
47.5°	6063.1	5734.3	5323.6	5009.7	4687.7	4372.4	4044.9	3631.8	3202.7	2786.5	2379.5
50°	6561.1	6244.1	5807.6	5422.1	5052.1	4671.7	4275.8	3774.6	3308.0	2863.4	2434.3
52.5°	7008.1	6726.1	6254.5	5794.0	5380.3	4941.9	4451.2	3908.2	3408.9	2942.9	2477.4
55°	7386.7	7122.6	6699.6	6126.5	5656.7	5171.6	4616.9	4030.1	3515.4	3026.0	2508.8
57.5°	7641.0	7488.3	7036.4	6418.9	5883.9	5367.4	4741.8	4152.6	3615.2	3077.7	2522.4
60°	7759.2	7738.9	7356.6	6683.0	6085.8	5520.0	4899.4	4282.6	3681.1	3101.1	2503.3
62.5°	7734.6	7879.9	7600.4	6864.0	6214.5	5615.5	5000.4	4338.6	3664.4	3044.5	2418.9
63°	7711.8	7886.0	7634.8	6881.9	6225.0	5624.7	5010.3	4331.8	3649.0	3019.2	2390.0
65°	7545.0	7813.4	7643.5	6849.9	6176.9	5598.2	4965.9	4225.3	3495.7	2860.4	2226.2
67.5°	7136.2	7405.2	7311.0	6497.1	5866.0	5313.8	4656.3	3862.7	3120.2	2523.0	1922.7
70°	6292.1	6532.8	6420.1	5704.1	5118.0	4726.4	4101.5	3212.5	2542.1	2028.0	1463.4
72.5°	4977.0	5146.3	5171.0	4602.1	4153.3	3918.1	3304.3	2423.3	1856.8	1412.3	950.0
75°	3685.4	3646.0	3654.0	3336.3	3153.4	3054.3	2470.0	1662.3	1251.0	863.2	563.3
77.5°	3097.4	2814.2	2572.9	2484.8	2271.8	2210.2	1629.0	1020.2	730.2	516.5	320.8
80°	2518.7	2089.6	1738.6	1582.9	1499.8	1512.1	901.3	543.6	382.3	281.4	200.7
82.5°	1722.0	1395.7	1100.8	956.1	941.3	955.5	468.5	266.6	201.9	161.9	126.2
85°	1018.3	958.6	855.8	759.7	726.5	685.8	348.5	190.9	104.0	86.2	70.8
87.5°	440.2	540.6	553.5	551.0	512.8	411.9	128.1	49.3	43.7	22.2	17.9
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: P145921

CATALOG NUMBER: VPL-E03-LED-E1-CPL-7050

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3
2.5°	1022.6	1023.2	1022.0	1023.2	1027.5	1027.5	1026.9	1028.2	1028.8	1032.5	1031.2
5°	1053.4	1054.0	1054.6	1058.9	1062.0	1065.7	1064.5	1065.7	1068.2	1068.8	1070.0
7.5°	1081.7	1085.4	1090.3	1092.2	1097.7	1099.0	1104.5	1105.1	1106.3	1103.9	1101.4
10°	1101.4	1105.1	1111.3	1114.4	1124.2	1125.4	1129.7	1131.0	1133.4	1131.6	1129.7
12.5°	1111.3	1114.4	1121.1	1127.3	1140.8	1145.1	1152.5	1156.8	1159.9	1158.1	1151.9
15°	1131.6	1131.0	1134.7	1139.6	1151.9	1159.9	1170.4	1175.9	1179.6	1176.5	1168.5
17.5°	1178.4	1169.8	1169.8	1166.7	1175.9	1177.8	1182.1	1185.2	1183.9	1174.7	1161.8
20°	1243.0	1230.1	1222.1	1214.7	1211.6	1196.2	1188.2	1177.1	1167.3	1150.7	1135.9
22.5°	1326.8	1317.5	1299.0	1282.4	1259.0	1227.6	1193.8	1164.8	1143.3	1120.5	1095.3
25°	1453.6	1432.6	1406.2	1366.8	1336.6	1281.2	1224.6	1169.8	1123.6	1087.9	1045.4
27.5°	1573.0	1528.7	1478.8	1417.3	1361.8	1288.0	1215.9	1152.5	1092.2	1034.9	986.3
30°	1672.8	1595.8	1514.5	1428.3	1349.5	1260.3	1176.5	1104.5	1036.2	968.4	922.3
32.5°	1747.9	1637.0	1528.7	1418.5	1321.2	1216.6	1120.5	1043.5	966.0	894.6	841.0
35°	1815.6	1666.0	1524.4	1392.0	1276.9	1161.1	1057.7	971.5	886.6	810.2	748.6
37.5°	1864.2	1675.8	1505.9	1353.8	1220.2	1093.4	981.4	889.6	798.5	720.9	653.2
40°	1901.8	1670.9	1470.8	1295.4	1142.7	1010.9	901.3	805.3	714.2	636.6	565.8
42.5°	1927.0	1652.4	1417.9	1228.9	1078.0	940.1	833.0	732.0	640.9	559.6	481.4
45°	1959.7	1645.1	1385.2	1179.0	1019.5	880.4	765.9	667.4	572.6	487.6	413.1
47.5°	1990.4	1640.7	1358.8	1137.7	966.6	826.2	712.9	609.5	514.1	431.0	363.2
50°	2008.9	1634.0	1331.1	1087.9	907.5	770.8	662.5	557.8	461.7	382.3	322.0
52.5°	2014.5	1620.4	1294.7	1031.2	856.4	723.4	610.7	506.1	413.7	342.3	286.3
55°	2010.1	1594.0	1245.5	985.1	804.1	671.1	558.4	456.8	373.1	306.0	261.0
57.5°	1989.2	1541.0	1182.1	926.6	744.3	605.2	494.4	401.4	326.9	273.4	238.9
60°	1942.4	1464.7	1104.5	844.7	658.8	527.0	422.3	342.3	279.5	240.7	217.9
62.5°	1840.2	1354.5	991.8	728.9	544.2	423.0	331.8	272.7	230.3	209.9	196.4
63°	1810.0	1316.3	958.6	698.2	524.5	399.6	311.5	258.0	219.8	203.2	192.1
65°	1651.2	1140.2	810.2	561.5	406.3	302.9	237.6	202.6	182.2	176.1	173.0
67.5°	1353.2	887.2	570.1	376.8	272.7	209.3	175.5	161.9	154.5	153.9	155.8
70°	956.1	588.6	352.8	241.3	187.8	158.2	145.3	139.1	135.4	136.7	140.4
72.5°	621.8	345.4	222.9	176.7	152.7	139.1	129.9	128.1	126.8	125.6	126.8
75°	328.8	216.1	168.7	147.8	133.6	122.5	116.4	113.9	114.5	114.5	114.5
77.5°	203.8	164.4	144.1	130.5	119.4	108.4	102.2	100.4	101.0	102.2	102.8
80°	156.4	143.4	126.8	117.0	101.0	91.7	88.7	88.0	89.3	89.3	91.1
82.5°	114.5	110.8	104.7	92.3	80.0	73.9	73.3	75.7	73.3	72.6	73.9
85°	67.1	62.8	68.3	58.5	53.6	49.9	52.3	57.3	59.7	56.6	55.4
87.5°	21.5	14.8	21.5	24.0	21.5	18.5	23.4	27.7	28.3	27.1	30.8
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: P145921

CATALOG NUMBER: VPL-E03-LED-E1-CPL-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3
2.5°	1030.6	1034.9	1030.6	1032.5	1031.9	1030.6	1032.5	1030.0	1028.8	1032.5	1031.9
5°	1069.4	1070.0	1064.5	1065.1	1064.5	1059.6	1059.6	1057.1	1054.0	1054.6	1053.4
7.5°	1100.8	1099.6	1095.3	1093.4	1087.9	1084.2	1081.7	1078.0	1075.6	1073.1	1071.9
10°	1124.8	1121.7	1118.7	1113.1	1107.6	1104.5	1097.7	1092.2	1090.3	1086.6	1084.2
12.5°	1145.7	1140.2	1135.3	1128.5	1121.7	1116.8	1108.8	1104.5	1101.4	1096.5	1092.8
15°	1157.4	1147.0	1137.7	1127.3	1119.9	1112.5	1103.3	1101.4	1097.1	1092.2	1085.4
17.5°	1143.3	1128.5	1111.3	1100.2	1089.1	1078.0	1068.8	1068.8	1066.9	1061.4	1049.7
20°	1114.4	1092.2	1071.9	1054.0	1042.9	1026.9	1021.4	1012.8	1006.6	996.8	982.0
22.5°	1066.9	1043.5	1017.1	999.2	980.1	962.3	951.2	937.7	932.7	916.7	897.0
25°	1014.0	980.1	951.8	928.4	901.9	881.0	865.6	847.2	834.8	819.4	794.8
27.5°	951.2	916.1	884.1	858.2	830.5	801.6	773.3	751.7	729.6	711.7	697.5
30°	883.5	847.2	807.8	777.6	745.6	709.2	685.8	656.9	639.7	620.0	601.5
32.5°	794.8	762.8	716.6	681.5	642.1	613.8	594.7	567.0	546.7	530.1	519.6
35°	697.5	649.5	603.4	576.9	549.8	527.0	500.5	479.0	465.4	448.2	439.0
37.5°	591.7	535.6	496.2	472.8	445.1	434.0	417.4	404.5	392.2	380.5	373.1
40°	496.8	445.1	409.4	389.7	371.2	358.9	348.5	342.9	334.9	325.7	320.1
42.5°	418.0	376.8	341.7	323.2	309.1	307.8	301.1	296.7	293.7	288.1	279.5
45°	356.5	318.9	288.7	274.0	267.8	268.4	268.4	264.7	264.7	262.9	257.3
47.5°	315.2	281.4	259.2	249.3	246.9	247.5	245.6	244.4	245.0	244.4	241.3
50°	283.2	254.3	235.8	232.1	231.5	230.9	228.4	226.6	225.9	227.2	226.6
52.5°	250.6	226.6	216.1	214.9	215.5	215.5	214.9	214.3	215.5	216.7	214.9
55°	232.1	214.9	208.1	208.1	208.1	208.1	207.5	206.9	208.7	210.6	207.5
57.5°	214.9	202.6	200.1	200.1	200.1	198.9	198.9	199.5	201.9	205.6	201.9
60°	201.9	195.8	195.8	196.4	195.8	193.3	191.5	191.5	194.5	199.5	196.4
62.5°	189.6	186.5	187.8	187.2	185.9	182.9	180.4	180.4	184.1	189.0	190.2
63°	186.5	184.1	185.3	184.7	183.5	181.0	178.5	178.5	181.6	186.5	188.4
65°	173.0	173.6	174.2	174.8	174.2	173.6	170.5	169.3	171.8	175.5	177.9
67.5°	157.0	158.2	159.5	162.5	161.3	161.3	159.5	158.2	158.8	160.7	162.5
70°	142.2	143.4	145.3	146.5	147.1	147.8	146.5	144.7	145.3	145.9	147.1
72.5°	128.1	129.3	130.5	133.0	133.0	133.0	131.8	130.5	131.1	132.4	133.6
75°	115.1	115.7	117.0	118.8	119.4	118.2	118.2	117.0	117.6	119.4	120.7
77.5°	102.2	101.0	101.6	102.8	104.7	104.7	105.3	104.7	105.9	107.1	108.4
80°	87.4	86.2	85.0	85.6	88.0	91.1	94.2	94.2	96.0	96.7	98.5
82.5°	69.6	68.3	67.7	69.6	69.0	73.3	80.0	83.7	86.2	88.7	89.9
85°	54.2	51.1	52.3	52.3	51.1	57.9	64.0	69.0	69.6	73.3	73.9
87.5°	32.0	30.8	29.6	28.3	32.6	39.4	44.9	46.8	48.0	49.9	51.7
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: P145921

CATALOG NUMBER: VPL-E03-LED-E1-CPL-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3
2.5°	1026.9	1031.9	1030.6	1030.0	1030.6	1030.0	1028.2	1028.8	1027.5	1028.2	1026.9
5°	1046.6	1049.1	1047.2	1044.2	1044.2	1039.9	1036.8	1034.3	1031.2	1030.0	1027.5
7.5°	1065.7	1063.9	1061.4	1055.9	1052.8	1047.2	1042.9	1038.0	1034.9	1031.2	1026.9
10°	1077.4	1073.7	1068.8	1062.0	1053.4	1048.5	1042.3	1034.9	1031.2	1029.4	1025.1
12.5°	1083.0	1073.1	1065.1	1052.8	1040.5	1031.2	1024.5	1017.1	1015.2	1012.8	1009.7
15°	1070.0	1055.9	1035.5	1018.9	1002.9	990.0	984.4	976.4	974.6	974.0	973.4
17.5°	1026.3	1004.8	985.1	962.9	948.7	937.0	932.1	930.3	927.2	926.0	926.6
20°	956.1	937.7	918.0	910.6	893.9	890.9	883.5	878.6	873.0	871.2	868.1
22.5°	874.2	851.5	839.1	833.6	826.8	810.8	807.1	802.2	794.8	789.3	788.0
25°	778.8	760.3	759.7	746.8	741.3	732.6	722.8	716.6	712.3	705.6	700.6
27.5°	681.5	674.8	663.1	653.2	649.5	644.6	629.8	626.7	621.8	616.3	610.7
30°	591.0	586.1	575.0	565.8	560.3	550.4	536.2	537.5	527.6	520.2	515.3
32.5°	503.0	499.3	488.8	486.4	468.5	463.6	448.8	437.7	427.9	420.5	414.3
35°	423.6	413.7	414.3	403.3	393.4	378.6	363.2	349.1	341.1	337.4	331.8
37.5°	366.3	357.1	347.8	335.5	324.5	314.0	304.8	300.4	295.5	296.7	297.4
40°	314.6	307.8	301.1	292.4	285.7	281.4	278.9	278.9	279.5	282.6	285.1
42.5°	277.7	272.1	268.4	265.4	266.6	266.6	268.4	271.5	274.6	278.9	281.4
45°	253.0	250.0	248.7	250.0	253.7	256.7	261.0	266.0	270.9	275.2	277.0
47.5°	238.3	236.4	236.4	239.5	245.0	250.0	256.7	261.7	267.2	270.9	272.1
50°	222.3	221.6	221.6	224.1	229.0	235.2	242.0	246.9	251.8	254.9	256.1
52.5°	213.0	211.2	210.6	213.6	217.9	224.1	230.9	235.8	239.5	242.0	242.6
55°	205.0	203.2	201.9	205.6	210.6	216.1	224.1	229.6	233.3	236.4	238.9
57.5°	198.2	196.4	195.2	199.5	204.4	211.2	217.9	224.1	229.0	232.7	235.2
60°	192.7	190.2	189.0	193.9	198.9	205.6	212.4	219.2	225.9	230.3	231.5
62.5°	185.9	184.1	182.2	185.3	187.8	192.7	198.9	205.6	211.8	216.1	216.1
63°	184.1	183.5	181.0	183.5	185.9	190.2	196.4	202.6	208.7	213.6	213.0
65°	176.1	176.1	174.8	177.3	179.8	184.1	189.0	195.8	201.3	205.0	205.6
67.5°	163.2	163.8	165.0	167.5	172.4	176.7	182.2	188.4	193.3	195.8	197.0
70°	148.4	149.6	152.1	155.8	160.1	163.8	167.5	173.6	177.9	180.4	181.6
72.5°	134.2	137.3	139.1	142.2	144.7	148.4	151.5	157.6	161.3	163.2	166.2
75°	121.3	123.7	125.0	126.8	129.3	130.5	134.2	136.7	141.6	144.1	147.8
77.5°	109.0	110.2	112.1	115.1	115.7	117.6	118.8	122.5	125.0	127.4	130.5
80°	97.9	99.1	101.6	103.4	104.0	105.3	105.9	105.3	104.7	102.8	105.3
82.5°	88.0	89.3	92.3	94.2	96.0	96.0	95.4	88.7	85.6	86.8	88.7
85°	72.6	73.9	77.0	80.7	81.3	80.7	81.3	74.5	70.2	68.3	70.2
87.5°	45.6	44.3	54.8	59.7	56.0	57.3	57.9	54.2	50.5	43.1	44.9
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: P145921
 CATALOG NUMBER: VPL-E03-LED-E1-CPL-7050

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	0°
2.5°	1028.2	1023.8	1024.5	1025.7	1025.7	1027.5	1025.1	1022.0	1023.8	1020.8	1020.2	2.5°
5°	1027.5	1022.0	1022.0	1023.2	1022.0	1023.2	1021.4	1018.3	1020.2	1016.5	1015.8	5°
7.5°	1025.1	1022.0	1023.2	1024.5	1022.6	1023.2	1022.6	1018.3	1018.9	1017.1	1012.8	7.5°
10°	1023.8	1022.0	1024.5	1028.2	1028.2	1028.8	1026.9	1022.0	1018.9	1017.1	1013.4	10°
12.5°	1010.9	1013.4	1018.3	1026.9	1030.0	1034.9	1037.4	1034.9	1036.2	1033.7	1032.5	12.5°
15°	974.0	980.1	988.1	1001.1	1010.3	1021.4	1034.9	1041.1	1052.8	1062.0	1068.2	15°
17.5°	929.7	934.0	942.6	957.4	969.1	991.2	1009.7	1030.6	1053.4	1078.0	1099.6	17.5°
20°	874.9	871.8	885.3	901.3	921.6	946.3	973.4	1004.8	1042.3	1081.7	1119.3	20°
22.5°	794.2	794.2	808.4	827.5	852.1	880.4	918.0	951.8	1001.1	1058.3	1113.7	22.5°
25°	701.9	703.7	713.6	735.1	752.3	793.0	828.1	871.8	930.9	993.7	1067.6	25°
27.5°	603.4	615.7	613.2	636.0	658.8	698.8	746.8	791.1	857.0	924.1	1008.5	27.5°
30°	514.1	512.2	511.6	538.7	561.5	597.8	637.2	693.2	759.7	845.9	943.2	30°
32.5°	403.3	410.0	415.0	431.0	455.6	489.5	531.9	590.4	670.5	757.3	866.9	32.5°
35°	333.1	334.9	341.7	350.9	372.5	400.8	445.1	496.8	567.0	656.9	773.3	35°
37.5°	298.6	300.4	307.8	316.5	331.8	352.8	382.9	423.0	487.6	571.3	679.7	37.5°
40°	287.5	289.4	293.7	301.7	315.8	333.7	357.7	388.5	435.3	500.5	595.3	40°
42.5°	282.6	282.6	283.2	289.4	303.5	324.5	350.3	378.0	412.5	461.7	538.7	42.5°
45°	277.0	277.0	276.4	280.7	291.8	315.8	347.2	381.1	418.7	461.1	521.5	45°
47.5°	272.1	270.9	269.7	271.5	280.7	305.4	341.7	382.9	431.0	483.9	544.9	47.5°
50°	254.9	254.9	254.3	254.9	263.5	289.4	331.2	381.1	442.0	510.4	584.3	50°
52.5°	242.6	243.2	243.8	243.8	250.6	277.0	323.2	381.7	454.4	536.2	629.8	52.5°
55°	239.5	240.7	240.7	239.5	245.0	269.0	315.8	379.9	463.0	565.2	678.5	55°
57.5°	235.8	236.4	237.0	235.8	239.5	260.4	305.4	371.2	460.5	576.3	714.8	57.5°
60°	230.9	228.4	227.8	225.9	228.4	245.0	286.9	352.8	445.7	571.3	727.1	60°
62.5°	217.3	215.5	213.6	211.8	213.6	225.9	266.6	330.0	421.1	551.6	717.2	62.5°
63°	214.3	213.0	211.2	209.3	209.3	222.9	259.8	324.5	415.0	546.1	713.6	63°
65°	205.6	205.0	203.8	201.9	201.3	211.8	244.4	299.2	386.0	521.5	690.2	65°
67.5°	195.8	195.8	195.2	192.7	189.6	195.8	218.6	261.7	335.5	458.1	632.3	67.5°
70°	181.6	181.6	181.0	179.8	176.1	180.4	195.2	223.5	276.4	374.3	530.1	70°
72.5°	167.5	167.5	169.3	168.7	169.3	169.9	177.3	192.7	224.7	291.2	400.8	72.5°
75°	149.0	152.1	152.7	153.9	154.5	153.9	157.6	166.8	185.3	223.5	292.4	75°
77.5°	133.6	137.9	137.3	136.1	135.4	136.1	135.4	139.8	153.3	177.3	216.7	77.5°
80°	110.2	114.5	114.5	113.9	112.7	113.9	112.7	117.0	128.1	149.0	172.4	80°
82.5°	90.5	93.6	95.4	96.7	95.4	100.4	100.4	99.1	107.7	126.2	145.3	82.5°
85°	72.6	75.7	77.6	80.0	81.3	80.0	79.4	78.2	83.1	97.9	110.8	85°
87.5°	46.2	48.6	48.6	49.3	49.3	51.1	47.4	43.1	39.4	56.0	58.5	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: P145921

NUMBER: VPL-E03-LED-E1-CPL-7050

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1018.3	1018.3	1018.3	1018.3	1018.3	1018.3	1018.3
1018.3	1018.3	1018.9	1017.1	1018.9	1018.9	1017.1
1014.0	1012.8	1012.8	1012.2	1013.4	1012.8	1012.2
1010.3	1010.3	1007.8	1006.0	1005.4	1007.8	1006.6
1009.1	1007.8	1007.2	1006.0	1006.6	1008.5	1009.7
1031.2	1026.9	1028.2	1027.5	1028.2	1030.0	1033.7
1071.9	1071.9	1074.9	1068.2	1071.3	1074.3	1079.3
1117.4	1128.5	1134.1	1133.4	1134.7	1137.1	1142.7
1156.2	1191.3	1215.9	1222.1	1238.7	1242.4	1233.8
1173.5	1236.3	1291.7	1328.6	1369.9	1386.5	1391.4
1138.4	1228.9	1320.0	1404.9	1486.2	1533.0	1574.3
1102.0	1209.2	1330.4	1457.3	1589.6	1709.1	1798.4
1051.6	1193.2	1356.9	1528.1	1703.5	1869.8	2018.8
996.1	1167.3	1359.4	1567.5	1784.2	1991.1	2171.4
916.7	1107.0	1320.0	1561.3	1812.5	2071.7	2297.0
825.6	1010.9	1249.8	1525.6	1810.7	2113.0	2383.2
728.3	918.0	1169.1	1464.7	1786.7	2125.9	2443.6
655.1	842.8	1089.1	1406.8	1750.9	2117.3	2472.5
617.5	778.2	1023.8	1350.1	1710.9	2096.3	2484.8
624.9	761.0	985.1	1303.4	1675.2	2073.6	2481.7
666.1	786.8	984.4	1286.1	1652.4	2052.6	2473.1
728.3	845.3	1020.2	1306.4	1664.8	2050.8	2472.5
798.5	927.2	1106.3	1361.2	1717.1	2084.0	2487.3
866.2	1026.9	1217.2	1483.7	1816.2	2167.1	2547.0
906.3	1118.0	1359.4	1656.7	1968.9	2313.0	2678.1
915.5	1172.8	1485.6	1826.7	2178.2	2524.2	2882.5
914.9	1178.4	1507.1	1861.8	2220.7	2572.9	2934.9
900.7	1189.5	1565.0	1977.5	2391.2	2781.6	3153.4
856.4	1169.8	1597.0	2085.3	2560.5	3011.8	3482.2
754.8	1079.9	1559.5	2120.3	2661.5	3164.5	3701.4
591.0	890.9	1346.5	1938.1	2524.8	3027.8	3706.9
415.6	629.8	1036.2	1591.5	2063.7	2558.7	3311.0
289.4	408.2	672.9	1070.6	1489.3	1866.7	2461.4
211.8	271.5	403.3	640.3	903.8	1166.7	1527.5
163.2	195.8	258.0	386.6	510.4	653.2	921.0
114.5	129.3	159.5	238.9	342.3	467.3	674.8
49.9	58.5	77.0	141.0	231.5	222.9	212.4
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)