

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: INVUE

Report Number: P153380

Luminaire Tested: **VWM-E05-LED-E1-SLR**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P153380
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33681)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VWM-E05-LED-E1-SLR
Description: VISION WALL MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13912.3 lumens
Efficiency: N/A
Efficacy: 109.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

Input Watts (W): 127.3
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

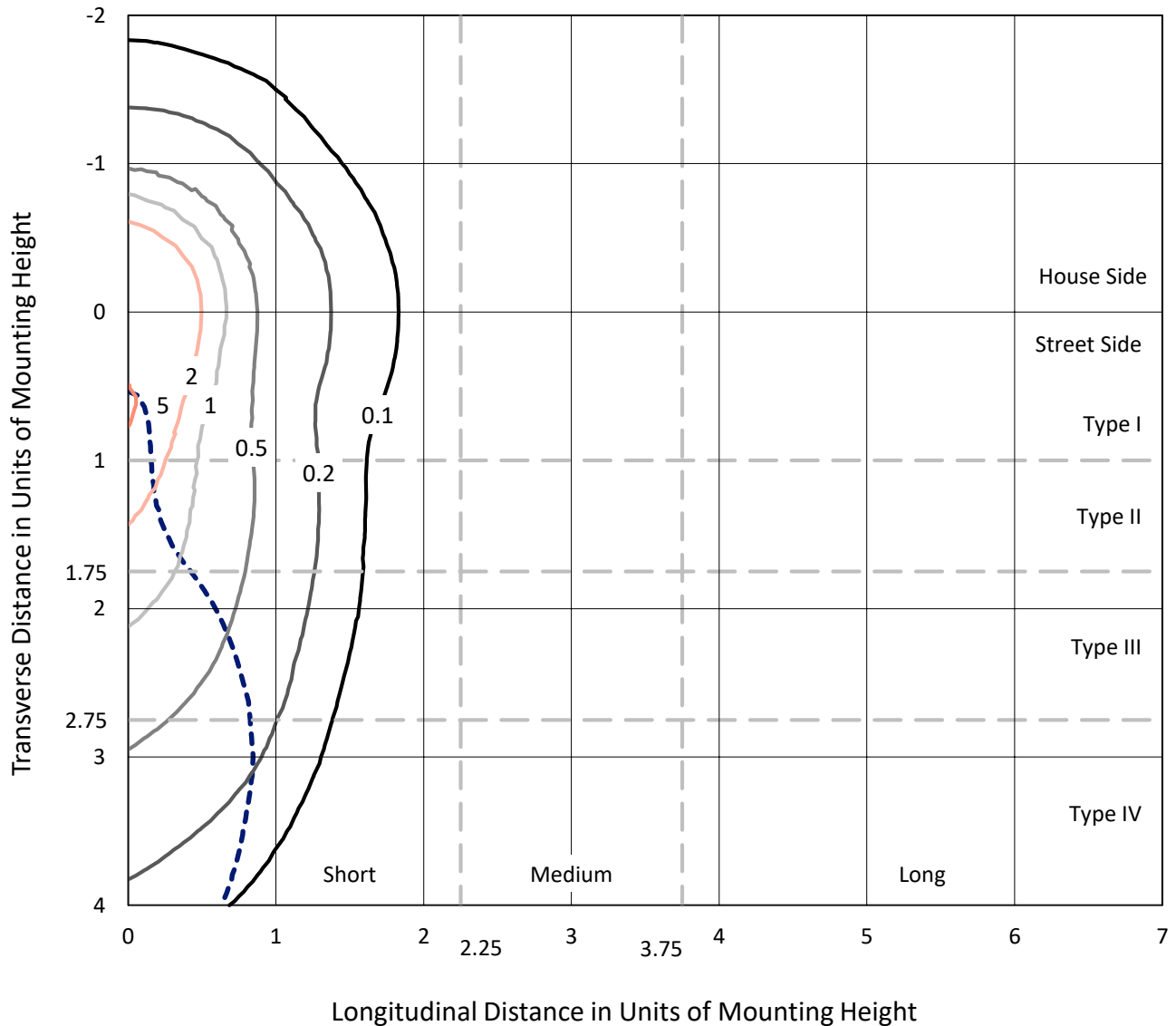


REPORT NUMBER: P153380

CATALOG NUMBER: VWM-E05-LED-E1-SLR

Iso-Footcandle Lines of Horizontal Illumination

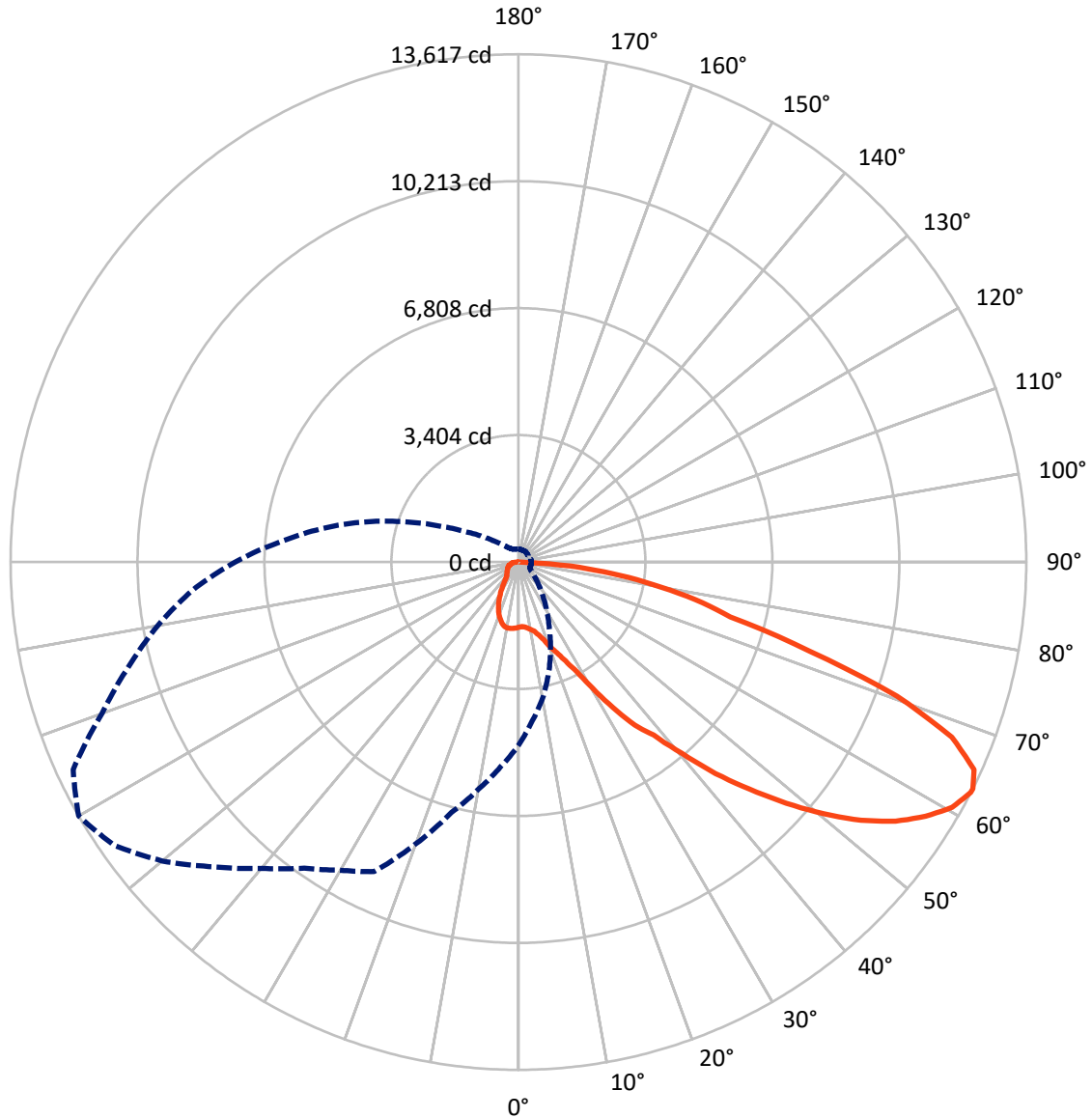
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5.5 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P153380
CATALOG NUMBER: VWM-E05-LED-E1-SLR

Luminous Intensity Polar Plot



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

REPORT NUMBER: P153380

CATALOG NUMBER: VWM-E05-LED-E1-SLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3016.8	0.0	3016.8
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	10895.5	0.0	10895.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	13912.3	0.0	13912.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	170.2	1.2
10°-20°	530.0	3.8
20°-30°	941.7	6.8
30°-40°	1482.9	10.7
40°-50°	2182.3	15.7
50°-60°	2898.7	20.8
60°-70°	3193.0	23.0
70°-80°	2003.3	14.4
80°-90°	510.2	3.7
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°	13912.3	100.0
0°-180°	13912.3	100.0

Coefficient of Utilization



REPORT NUMBER: P153380

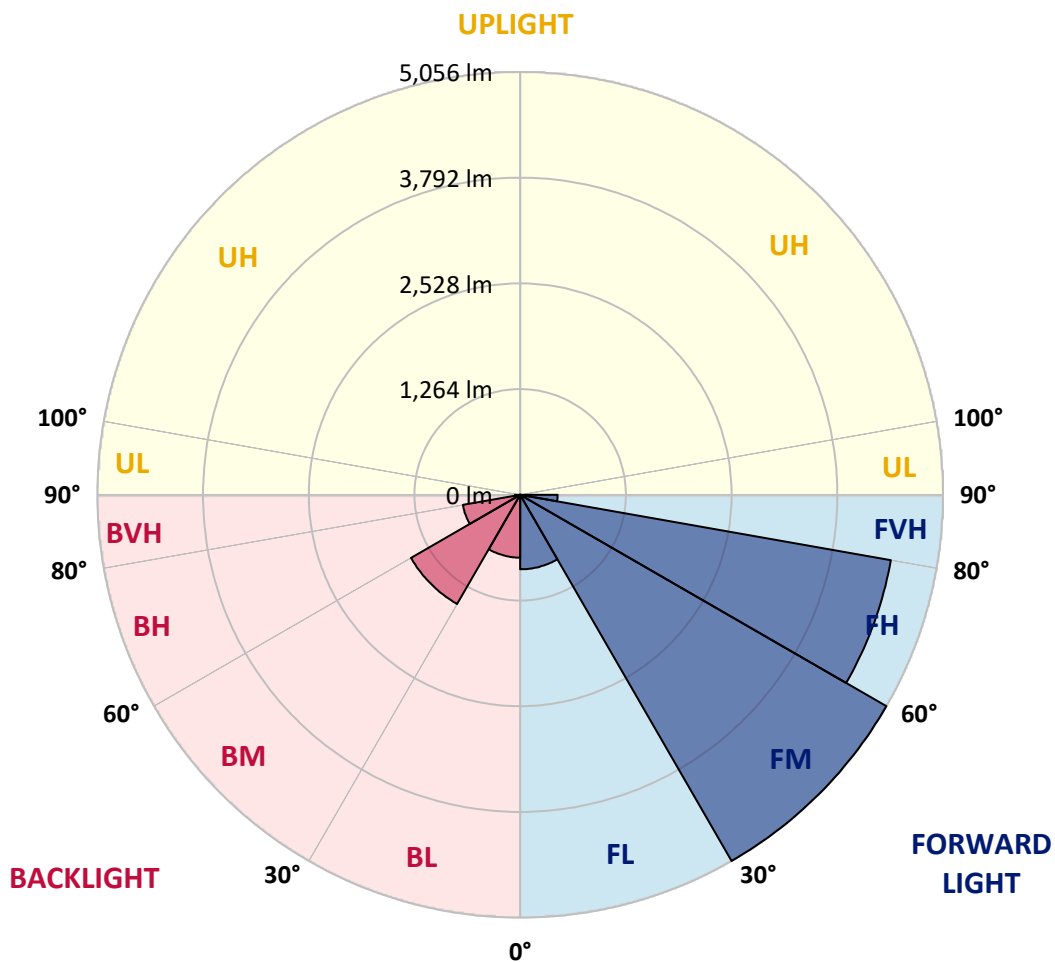
CATALOG NUMBER: VWM-E05-LED-E1-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	890.8	6.4			
FM (30°-60°)	5056.0	36.3			
FH (60°-80°)	4500.8	32.4			G2/5000
FVH (80°-90°)	447.7	3.2			G3/500
BL (0°-30°)	751.1	5.4	B2/1000		
BM (30°-60°)	1507.9	10.8	B2/2500		
BH (60°-80°)	695.4	5.0	B2/1000		G2/1000
BVH (80°-90°)	62.5	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





REPORT NUMBER: P153380

CATALOG NUMBER: VWM-E05-LED-E1-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1725.0	1730.0	1728.3	1728.3	1731.7	1730.0	1730.0	1731.7	1731.7	1736.7	1743.3
5°	1711.7	1710.0	1706.7	1710.0	1710.0	1710.0	1703.3	1708.3	1710.0	1713.3	1713.3
7.5°	1728.3	1723.3	1716.7	1718.3	1718.3	1715.0	1710.0	1711.7	1710.0	1710.0	1708.3
10°	1750.0	1738.3	1730.0	1730.0	1730.0	1726.7	1718.3	1723.3	1723.3	1721.7	1723.3
12.5°	1788.3	1775.0	1765.0	1761.7	1761.7	1756.7	1750.0	1756.7	1753.3	1753.3	1750.0
15°	1851.7	1836.7	1825.0	1815.0	1816.7	1816.7	1808.3	1803.3	1796.7	1788.3	1771.7
17.5°	1946.7	1930.0	1915.0	1906.7	1908.3	1896.7	1873.3	1850.0	1818.3	1786.7	1751.7
20°	2081.7	2076.7	2056.7	2048.3	2028.3	2000.0	1935.0	1880.0	1818.3	1758.3	1698.3
22.5°	2315.0	2291.7	2271.7	2240.0	2173.3	2095.0	1986.7	1890.0	1793.3	1708.3	1628.3
25°	2628.3	2586.7	2488.3	2391.7	2255.0	2115.0	1968.3	1843.3	1723.3	1611.7	1513.3
27.5°	2936.7	2810.0	2635.0	2460.0	2260.0	2076.7	1893.3	1745.0	1605.0	1483.3	1375.0
30°	3310.0	3096.7	2828.3	2551.7	2268.3	2021.7	1801.7	1628.3	1466.7	1338.3	1225.0
32.5°	3660.0	3351.7	3000.0	2636.7	2286.7	1970.0	1696.7	1500.0	1333.3	1171.7	1060.0
35°	3900.0	3500.0	3073.3	2645.0	2241.7	1871.7	1565.0	1333.3	1166.7	1016.7	885.0
37.5°	4043.3	3565.0	3076.7	2585.0	2136.7	1738.3	1398.3	1168.3	1015.0	871.7	768.3
40°	4133.3	3580.0	3033.3	2498.3	2003.3	1570.0	1231.7	1025.0	885.0	770.0	690.0
42.5°	4176.7	3556.7	2963.3	2388.3	1868.3	1420.0	1115.0	920.0	798.3	716.7	656.7
45°	4183.3	3515.0	2888.3	2288.3	1748.3	1311.7	1035.0	876.7	776.7	708.3	648.3
47.5°	4183.3	3478.3	2828.3	2215.0	1670.0	1265.0	1028.3	895.0	796.7	720.0	648.3
50°	4186.7	3466.7	2803.3	2178.3	1643.3	1290.0	1085.0	951.7	840.0	740.0	646.7
52.5°	4201.7	3481.7	2823.3	2206.7	1691.7	1390.0	1191.7	1036.7	896.7	763.3	646.7
55°	4235.0	3531.7	2908.3	2305.0	1821.7	1541.7	1320.0	1128.3	941.7	773.3	636.7
57.5°	4328.3	3658.3	3063.3	2495.0	2043.3	1716.7	1436.7	1193.3	958.3	765.0	616.7
60°	4515.0	3910.0	3328.3	2761.7	2278.3	1866.7	1505.0	1203.3	943.3	738.3	585.0
62.5°	4813.3	4198.3	3650.0	3051.7	2486.7	1950.0	1513.3	1178.3	903.3	690.0	538.3
63°	4916.7	4270.0	3718.3	3106.7	2513.3	1956.7	1506.7	1168.3	893.3	676.7	531.7
65°	5205.0	4571.7	3955.0	3300.0	2588.3	1958.3	1470.0	1118.3	846.7	625.0	485.0
67.5°	5743.3	4968.3	4253.3	3451.7	2615.0	1905.0	1376.7	1025.0	748.3	545.0	426.7
70°	6083.3	5190.0	4368.3	3455.0	2536.7	1753.3	1215.0	873.3	623.3	451.7	366.7
72.5°	5995.0	4971.7	4065.0	3143.3	2198.3	1465.0	976.7	686.7	486.7	361.7	305.0
75°	5135.0	4138.3	3316.7	2435.0	1661.7	1076.7	715.0	490.0	360.0	283.3	255.0
77.5°	3696.7	2978.3	2378.3	1735.0	1120.0	696.7	475.0	350.0	273.3	233.3	210.0
80°	2355.0	1746.7	1455.0	1043.3	655.0	431.7	326.7	265.0	225.0	195.0	180.0
82.5°	1230.0	861.7	700.0	533.3	363.3	285.0	240.0	216.7	185.0	161.7	153.3
85°	766.7	508.3	376.7	263.3	181.7	163.3	150.0	146.7	131.7	116.7	111.7
87.5°	86.7	78.3	81.7	51.7	38.3	41.7	40.0	53.3	51.7	38.3	40.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P153380

CATALOG NUMBER: VWM-E05-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1736.7	1740.0	1740.0	1745.0	1745.0	1748.3	1751.7	1751.7	1755.0	1756.7	1760.0
5°	1716.7	1716.7	1716.7	1723.3	1725.0	1735.0	1738.3	1741.7	1745.0	1756.7	1763.3
7.5°	1711.7	1705.0	1708.3	1708.3	1713.3	1721.7	1730.0	1735.0	1740.0	1755.0	1765.0
10°	1721.7	1716.7	1711.7	1711.7	1713.3	1716.7	1723.3	1728.3	1731.7	1746.7	1755.0
12.5°	1748.3	1736.7	1726.7	1718.3	1711.7	1710.0	1706.7	1708.3	1711.7	1720.0	1731.7
15°	1753.3	1731.7	1710.0	1688.3	1671.7	1661.7	1653.3	1650.0	1650.0	1655.0	1668.3
17.5°	1720.0	1683.3	1651.7	1623.3	1605.0	1586.7	1578.3	1571.7	1568.3	1575.0	1576.7
20°	1648.3	1605.0	1561.7	1528.3	1495.0	1490.0	1476.7	1480.0	1483.3	1493.3	1498.3
22.5°	1550.0	1498.3	1445.0	1410.0	1383.3	1360.0	1345.0	1351.7	1356.7	1366.7	1371.7
25°	1430.0	1355.0	1298.3	1263.3	1235.0	1215.0	1198.3	1205.0	1198.3	1210.0	1228.3
27.5°	1288.3	1200.0	1140.0	1100.0	1080.0	1063.3	1046.7	1046.7	1063.3	1063.3	1078.3
30°	1116.7	1051.7	973.3	931.7	906.7	896.7	895.0	891.7	903.3	910.0	926.7
32.5°	955.0	875.0	800.0	760.0	738.3	726.7	728.3	730.0	735.0	745.0	771.7
35°	791.7	721.7	668.3	623.3	601.7	580.0	580.0	576.7	581.7	593.3	625.0
37.5°	686.7	625.0	583.3	548.3	526.7	513.3	501.7	496.7	496.7	501.7	513.3
40°	628.3	583.3	545.0	515.0	495.0	483.3	476.7	471.7	468.3	468.3	470.0
42.5°	601.7	555.0	516.7	490.0	475.0	468.3	466.7	465.0	460.0	458.3	456.7
45°	588.3	535.0	491.7	470.0	458.3	455.0	456.7	456.7	455.0	451.7	445.0
47.5°	578.3	516.7	473.3	453.3	448.3	448.3	448.3	448.3	446.7	445.0	440.0
50°	561.7	488.3	441.7	426.7	423.3	423.3	425.0	425.0	428.3	425.0	421.7
52.5°	543.3	461.7	415.0	401.7	400.0	398.3	398.3	398.3	400.0	400.0	398.3
55°	523.3	441.7	401.7	391.7	393.3	391.7	390.0	388.3	388.3	386.7	383.3
57.5°	503.3	425.0	391.7	385.0	386.7	386.7	383.3	380.0	378.3	373.3	370.0
60°	473.3	401.7	371.7	368.3	373.3	373.3	373.3	371.7	371.7	370.0	361.7
62.5°	433.3	368.3	345.0	346.7	348.3	351.7	351.7	351.7	351.7	348.3	340.0
63°	425.0	361.7	340.0	340.0	345.0	345.0	346.7	345.0	346.7	343.3	333.3
65°	391.7	340.0	323.3	325.0	328.3	328.3	328.3	326.7	326.7	321.7	316.7
67.5°	353.3	313.3	303.3	305.0	306.7	310.0	308.3	308.3	310.0	306.7	301.7
70°	310.0	285.0	278.3	280.0	281.7	281.7	280.0	280.0	281.7	278.3	273.3
72.5°	276.7	266.7	261.7	261.7	258.3	258.3	255.0	253.3	251.7	251.7	246.7
75°	233.3	231.7	233.3	236.7	233.3	230.0	228.3	223.3	220.0	220.0	218.3
77.5°	200.0	200.0	203.3	208.3	210.0	210.0	205.0	196.7	195.0	195.0	195.0
80°	173.3	170.0	170.0	175.0	180.0	178.3	170.0	161.7	161.7	170.0	171.7
82.5°	151.7	151.7	146.7	148.3	146.7	145.0	136.7	131.7	130.0	136.7	143.3
85°	120.0	121.7	120.0	118.3	116.7	111.7	105.0	100.0	98.3	105.0	115.0
87.5°	48.3	46.7	45.0	46.7	45.0	48.3	46.7	43.3	41.7	46.7	56.7
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: P153380

CATALOG NUMBER: VWM-E05-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1761.7	1765.0	1768.3	1768.3	1771.7	1770.0	1771.7	1773.3	1773.3	1775.0	1775.0
5°	1771.7	1776.7	1783.3	1790.0	1791.7	1796.7	1801.7	1798.3	1803.3	1810.0	1810.0
7.5°	1775.0	1786.7	1791.7	1801.7	1803.3	1810.0	1821.7	1813.3	1823.3	1828.3	1830.0
10°	1770.0	1781.7	1790.0	1801.7	1806.7	1818.3	1830.0	1826.7	1838.3	1846.7	1848.3
12.5°	1740.0	1751.7	1770.0	1786.7	1800.0	1818.3	1840.0	1833.3	1850.0	1860.0	1865.0
15°	1681.7	1693.3	1713.3	1740.0	1765.0	1793.3	1821.7	1826.7	1843.3	1855.0	1860.0
17.5°	1590.0	1605.0	1626.7	1655.0	1686.7	1735.0	1771.7	1790.0	1813.3	1820.0	1828.3
20°	1505.0	1520.0	1533.3	1550.0	1573.3	1620.0	1668.3	1705.0	1735.0	1760.0	1766.7
22.5°	1391.7	1405.0	1421.7	1435.0	1451.7	1485.0	1525.0	1566.7	1613.3	1628.3	1645.0
25°	1255.0	1263.3	1286.7	1295.0	1306.7	1335.0	1366.7	1396.7	1441.7	1473.3	1481.7
27.5°	1108.3	1116.7	1138.3	1143.3	1158.3	1185.0	1208.3	1220.0	1261.7	1295.0	1321.7
30°	938.3	960.0	986.7	990.0	1006.7	1023.3	1045.0	1056.7	1095.0	1130.0	1163.3
32.5°	791.7	813.3	835.0	848.3	856.7	870.0	891.7	903.3	940.0	971.7	1005.0
35°	641.7	668.3	691.7	710.0	716.7	733.3	750.0	761.7	800.0	828.3	851.7
37.5°	528.3	548.3	573.3	591.7	610.0	621.7	641.7	658.3	681.7	696.7	721.7
40°	473.3	483.3	496.7	511.7	526.7	540.0	555.0	568.3	583.3	603.3	620.0
42.5°	455.0	456.7	456.7	461.7	470.0	476.7	490.0	500.0	510.0	525.0	533.3
45°	441.7	440.0	436.7	433.3	435.0	438.3	446.7	453.3	465.0	471.7	473.3
47.5°	435.0	428.3	421.7	416.7	415.0	416.7	423.3	430.0	436.7	441.7	443.3
50°	413.3	408.3	398.3	391.7	388.3	391.7	400.0	403.3	410.0	415.0	416.7
52.5°	391.7	385.0	378.3	371.7	371.7	373.3	380.0	386.7	393.3	395.0	398.3
55°	378.3	368.3	361.7	356.7	353.3	358.3	363.3	371.7	380.0	381.7	385.0
57.5°	365.0	355.0	348.3	343.3	340.0	345.0	350.0	361.7	371.7	371.7	371.7
60°	356.7	348.3	338.3	333.3	328.3	333.3	340.0	351.7	361.7	360.0	358.3
62.5°	333.3	325.0	320.0	320.0	315.0	323.3	330.0	343.3	345.0	341.7	338.3
63°	326.7	320.0	316.7	316.7	313.3	321.7	328.3	340.0	340.0	336.7	333.3
65°	310.0	305.0	301.7	305.0	305.0	313.3	315.0	323.3	321.7	316.7	315.0
67.5°	296.7	293.3	290.0	290.0	290.0	291.7	293.3	296.7	295.0	293.3	295.0
70°	275.0	273.3	270.0	270.0	268.3	268.3	268.3	270.0	270.0	271.7	273.3
72.5°	248.3	245.0	245.0	246.7	243.3	245.0	246.7	245.0	248.3	248.3	250.0
75°	218.3	216.7	220.0	223.3	221.7	221.7	223.3	223.3	225.0	225.0	226.7
77.5°	195.0	196.7	198.3	201.7	203.3	203.3	203.3	201.7	203.3	203.3	205.0
80°	173.3	176.7	180.0	183.3	185.0	185.0	185.0	183.3	183.3	183.3	183.3
82.5°	156.7	161.7	165.0	166.7	166.7	166.7	166.7	166.7	166.7	163.3	160.0
85°	131.7	141.7	141.7	143.3	138.3	135.0	131.7	133.3	135.0	128.3	126.7
87.5°	66.7	66.7	70.0	73.3	75.0	75.0	85.0	80.0	78.3	76.7	73.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P153380

CATALOG NUMBER: VWM-E05-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1776.7	1775.0	1778.3	1775.0	1776.7	1778.3	1775.0	1780.0	1783.3	1778.3	1773.3
5°	1813.3	1813.3	1821.7	1825.0	1826.7	1836.7	1831.7	1835.0	1838.3	1836.7	1838.3
7.5°	1836.7	1843.3	1851.7	1860.0	1861.7	1870.0	1868.3	1873.3	1876.7	1885.0	1885.0
10°	1856.7	1865.0	1876.7	1885.0	1893.3	1900.0	1903.3	1913.3	1915.0	1921.7	1921.7
12.5°	1875.0	1885.0	1896.7	1910.0	1918.3	1931.7	1933.3	1948.3	1953.3	1955.0	1950.0
15°	1871.7	1883.3	1896.7	1911.7	1926.7	1943.3	1953.3	1968.3	1976.7	1980.0	1971.7
17.5°	1840.0	1850.0	1866.7	1886.7	1905.0	1926.7	1945.0	1966.7	1980.0	1983.3	1981.7
20°	1778.3	1785.0	1806.7	1833.3	1855.0	1888.3	1915.0	1948.3	1970.0	1986.7	1991.7
22.5°	1656.7	1673.3	1695.0	1725.0	1756.7	1798.3	1836.7	1885.0	1931.7	1971.7	2011.7
25°	1510.0	1540.0	1573.3	1613.3	1651.7	1695.0	1738.3	1793.3	1861.7	1945.0	2040.0
27.5°	1361.7	1413.3	1455.0	1506.7	1551.7	1595.0	1643.3	1703.3	1778.3	1878.3	2000.0
30°	1211.7	1270.0	1315.0	1375.0	1435.0	1493.3	1541.7	1605.0	1678.3	1780.0	1913.3
32.5°	1051.7	1110.0	1163.3	1218.3	1285.0	1355.0	1413.3	1491.7	1570.0	1675.0	1810.0
35°	886.7	938.3	983.3	1041.7	1115.0	1190.0	1266.7	1356.7	1441.7	1551.7	1695.0
37.5°	743.3	780.0	823.3	875.0	931.7	1011.7	1098.3	1205.0	1301.7	1421.7	1568.3
40°	625.0	645.0	670.0	713.3	765.0	843.3	928.3	1041.7	1158.3	1290.0	1431.7
42.5°	533.3	543.3	550.0	578.3	620.0	696.7	778.3	888.3	1016.7	1160.0	1303.3
45°	473.3	478.3	480.0	495.0	525.0	591.7	676.7	770.0	893.3	1033.3	1183.3
47.5°	445.0	450.0	453.3	456.7	475.0	526.7	603.3	691.7	805.0	933.3	1086.7
50°	421.7	426.7	431.7	430.0	438.3	471.7	536.7	618.3	725.0	843.3	995.0
52.5°	398.3	401.7	401.7	401.7	406.7	428.3	475.0	550.0	648.3	760.0	910.0
55°	385.0	388.3	390.0	391.7	393.3	405.0	440.0	500.0	585.0	688.3	823.3
57.5°	371.7	373.3	376.7	378.3	381.7	388.3	410.0	453.3	525.0	611.7	725.0
60°	360.0	363.3	370.0	371.7	375.0	376.7	386.7	413.3	460.0	526.7	618.3
62.5°	341.7	346.7	353.3	355.0	358.3	360.0	361.7	376.7	398.3	438.3	506.7
63°	336.7	341.7	350.0	351.7	353.3	353.3	355.0	365.0	385.0	420.0	470.0
65°	318.3	325.0	330.0	331.7	333.3	333.3	331.7	335.0	336.7	351.7	381.7
67.5°	298.3	303.3	306.7	308.3	306.7	308.3	306.7	303.3	300.0	303.3	316.7
70°	278.3	281.7	281.7	283.3	285.0	286.7	283.3	280.0	276.7	275.0	283.3
72.5°	255.0	258.3	258.3	260.0	260.0	263.3	263.3	261.7	261.7	263.3	265.0
75°	231.7	235.0	233.3	236.7	236.7	241.7	241.7	243.3	246.7	245.0	243.3
77.5°	210.0	211.7	211.7	213.3	215.0	223.3	228.3	230.0	230.0	226.7	223.3
80°	186.7	186.7	183.3	181.7	183.3	191.7	201.7	203.3	208.3	206.7	208.3
82.5°	156.7	150.0	145.0	145.0	148.3	153.3	156.7	160.0	163.3	163.3	166.7
85°	120.0	113.3	108.3	110.0	115.0	116.7	115.0	115.0	121.7	126.7	121.7
87.5°	71.7	65.0	61.7	56.7	58.3	63.3	61.7	56.7	58.3	46.7	43.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P153380

CATALOG NUMBER: VWM-E05-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
2.5°	1776.7	1775.0	1771.7	1766.7	1765.0	1761.7	1763.3	1758.3	1755.0	1751.7	1746.7
5°	1838.3	1838.3	1828.3	1828.3	1823.3	1821.7	1810.0	1805.0	1795.0	1798.3	1786.7
7.5°	1881.7	1886.7	1875.0	1873.3	1866.7	1865.0	1850.0	1845.0	1836.7	1833.3	1823.3
10°	1913.3	1913.3	1898.3	1886.7	1878.3	1870.0	1855.0	1848.3	1841.7	1843.3	1836.7
12.5°	1938.3	1926.7	1905.0	1888.3	1876.7	1868.3	1856.7	1851.7	1850.0	1861.7	1863.3
15°	1958.3	1941.7	1915.0	1903.3	1893.3	1891.7	1891.7	1896.7	1908.3	1930.0	1946.7
17.5°	1970.0	1960.0	1946.7	1943.3	1960.0	1970.0	1983.3	1998.3	2015.0	2045.0	2063.3
20°	1991.7	1998.3	2008.3	2021.7	2048.3	2073.3	2090.0	2111.7	2131.7	2168.3	2198.3
22.5°	2048.3	2086.7	2118.3	2145.0	2185.0	2220.0	2241.7	2271.7	2286.7	2311.7	2358.3
25°	2121.7	2200.0	2266.7	2323.3	2385.0	2421.7	2451.7	2490.0	2513.3	2555.0	2596.7
27.5°	2100.0	2211.7	2311.7	2416.7	2501.7	2596.7	2663.3	2726.7	2766.7	2828.3	2883.3
30°	2033.3	2166.7	2301.7	2440.0	2575.0	2711.7	2838.3	2953.3	3041.7	3130.0	3220.0
32.5°	1943.3	2096.7	2261.7	2431.7	2608.3	2798.3	2973.3	3146.7	3293.3	3421.7	3546.7
35°	1840.0	2013.3	2185.0	2395.0	2613.3	2855.0	3098.3	3338.3	3561.7	3788.3	3941.7
37.5°	1716.7	1893.3	2085.0	2326.7	2583.3	2881.7	3191.7	3505.0	3821.7	4126.7	4391.7
40°	1585.0	1765.0	1966.7	2228.3	2518.3	2865.0	3251.7	3673.3	4108.3	4550.0	4901.7
42.5°	1468.3	1653.3	1873.3	2138.3	2453.3	2843.3	3300.0	3818.3	4350.0	4896.7	5413.3
45°	1355.0	1558.3	1790.0	2075.0	2425.0	2860.0	3371.7	3953.3	4566.7	5230.0	5860.0
47.5°	1253.3	1460.0	1685.0	1996.7	2383.3	2868.3	3441.7	4088.3	4771.7	5490.0	6238.3
50°	1161.7	1361.7	1583.3	1896.7	2318.3	2863.3	3505.0	4210.0	4948.3	5695.0	6530.0
52.5°	1071.7	1275.0	1501.7	1800.0	2238.3	2835.0	3535.0	4310.0	5111.7	5901.7	6765.0
55°	983.3	1183.3	1411.7	1708.3	2133.3	2761.7	3531.7	4375.0	5241.7	6096.7	6991.7
57.5°	880.0	1070.0	1293.3	1606.7	2021.7	2648.3	3481.7	4405.0	5353.3	6290.0	7263.3
60°	751.7	930.0	1145.0	1458.3	1875.0	2503.3	3376.7	4388.3	5418.3	6433.3	7495.0
62.5°	593.3	748.3	945.0	1251.7	1691.7	2295.0	3180.0	4236.7	5315.0	6413.3	7603.3
63°	560.0	706.7	898.3	1201.7	1613.3	2238.3	3121.7	4176.7	5265.0	6371.7	7588.3
65°	450.0	545.0	698.3	970.0	1350.0	1960.0	2831.7	3868.3	4996.7	6078.3	7371.7
67.5°	345.0	393.3	475.0	665.0	955.0	1541.7	2293.3	3278.3	4336.7	5353.3	6673.3
70°	295.0	316.7	351.7	441.7	606.7	973.3	1610.0	2445.0	3361.7	4243.3	5430.0
72.5°	268.3	278.3	296.7	335.0	416.7	583.3	1026.7	1591.7	2286.7	3025.0	3941.7
75°	246.7	255.0	270.0	290.0	320.0	388.3	585.0	973.3	1486.7	1986.7	2660.0
77.5°	225.0	230.0	246.7	265.0	285.0	320.0	386.7	560.0	855.0	1171.7	1603.3
80°	206.7	203.3	215.0	245.0	265.0	285.0	305.0	363.3	486.7	641.7	866.7
82.5°	165.0	168.3	178.3	208.3	216.7	211.7	215.0	225.0	271.7	296.7	443.3
85°	111.7	103.3	101.7	105.0	105.0	100.0	100.0	98.3	108.3	123.3	211.7
87.5°	30.0	15.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P153380
 CATALOG NUMBER: VWM-E05-LED-E1-SLR

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	0°
2.5°	1743.3	1741.7	1743.3	1735.0	1735.0	1733.3	1731.7	1728.3	1728.3	1721.7	1726.7	2.5°
5°	1776.7	1773.3	1766.7	1756.7	1751.7	1745.0	1745.0	1738.3	1733.3	1726.7	1728.3	5°
7.5°	1815.0	1816.7	1805.0	1796.7	1793.3	1786.7	1788.3	1778.3	1780.0	1775.0	1771.7	7.5°
10°	1836.7	1836.7	1840.0	1838.3	1841.7	1841.7	1846.7	1840.0	1836.7	1831.7	1831.7	10°
12.5°	1871.7	1878.3	1891.7	1891.7	1901.7	1905.0	1906.7	1910.0	1903.3	1900.0	1888.3	12.5°
15°	1958.3	1975.0	1986.7	2003.3	2023.3	2030.0	2030.0	2023.3	2020.0	2015.0	1993.3	15°
17.5°	2101.7	2138.3	2148.3	2175.0	2178.3	2186.7	2210.0	2196.7	2188.3	2153.3	2146.7	17.5°
20°	2248.3	2295.0	2341.7	2375.0	2391.7	2425.0	2430.0	2423.3	2390.0	2356.7	2341.7	20°
22.5°	2425.0	2495.0	2548.3	2600.0	2625.0	2641.7	2678.3	2670.0	2643.3	2593.3	2573.3	22.5°
25°	2675.0	2761.7	2818.3	2881.7	2915.0	2931.7	2968.3	2968.3	2940.0	2925.0	2923.3	25°
27.5°	2990.0	3096.7	3190.0	3211.7	3298.3	3318.3	3353.3	3353.3	3326.7	3308.3	3396.7	27.5°
30°	3340.0	3451.7	3613.3	3721.7	3826.7	3930.0	3928.3	3935.0	3966.7	3983.3	4021.7	30°
32.5°	3690.0	3828.3	4000.0	4235.0	4460.0	4651.7	4900.0	5058.3	5010.0	4875.0	4821.7	32.5°
35°	4115.0	4268.3	4476.7	4713.3	5125.0	5373.3	5493.3	5578.3	5588.3	5606.7	5645.0	35°
37.5°	4588.3	4845.0	5086.7	5355.0	5583.3	5885.0	6163.3	6386.7	6438.3	6543.3	6483.3	37.5°
40°	5186.7	5473.3	5726.7	6073.3	6380.0	6743.3	7141.7	7448.3	7571.7	7531.7	7231.7	40°
42.5°	5813.3	6168.3	6465.0	6873.3	7271.7	7751.7	8163.3	8591.7	8668.3	8360.0	7911.7	42.5°
45°	6390.0	6830.0	7198.3	7623.3	8110.0	8685.0	9235.0	9675.0	9660.0	9131.7	8531.7	45°
47.5°	6908.3	7448.3	7898.3	8451.7	8975.0	9660.0	10291.7	10616.7	10425.0	9800.0	9065.0	47.5°
50°	7336.7	8010.0	8565.0	9125.0	9790.0	10615.0	11223.3	11406.7	11036.7	10356.7	9583.3	50°
52.5°	7681.7	8526.7	9150.0	9795.0	10635.0	11503.3	12026.7	11958.3	11480.0	10781.7	10011.7	52.5°
55°	7973.3	8921.7	9665.0	10426.7	11468.3	12268.3	12616.7	12433.3	11765.0	11056.7	10305.0	55°
57.5°	8275.0	9305.0	10138.3	11021.7	12181.7	12868.3	13061.7	12685.0	11900.0	11161.7	10431.7	57.5°
60°	8576.7	9625.0	10556.7	11541.7	12721.7	13358.3	13305.0	12741.7	11860.0	11085.0	10346.7	60°
62.5°	8780.0	9815.0	10800.0	11861.7	13126.7	13608.3	13281.7	12540.0	11628.3	10783.3	10093.3	62.5°
63°	8785.0	9821.7	10815.0	11883.3	13171.7	13616.7	13236.7	12468.3	11555.0	10721.7	10018.3	63°
65°	8680.0	9696.7	10681.7	11785.0	13133.3	13425.0	12848.3	12045.0	11136.7	10295.0	9628.3	65°
67.5°	8143.3	9180.0	10050.0	11090.0	12446.7	12530.0	11808.3	11160.0	10343.3	9471.7	8775.0	67.5°
70°	7061.7	7923.3	8776.7	9645.0	10783.3	10768.3	10090.0	9760.0	9045.0	8051.7	7493.3	70°
72.5°	5616.7	6390.0	6990.0	7571.7	8321.7	8170.0	7733.3	7825.0	7361.7	6620.0	6288.3	72.5°
75°	4170.0	5020.0	5313.3	5550.0	5866.7	5868.3	5988.3	6248.3	6241.7	5830.0	5411.7	75°
77.5°	2735.0	3665.0	3763.3	3953.3	4333.3	4850.0	5383.3	5956.7	6100.0	5775.0	5156.7	77.5°
80°	1525.0	2491.7	2378.3	2541.7	2951.7	3653.3	4440.0	5073.3	5446.7	5265.0	4610.0	80°
82.5°	780.0	1436.7	1373.3	1600.0	1931.7	2541.7	3061.7	3548.3	3988.3	3963.3	3715.0	82.5°
85°	405.0	786.7	895.0	1013.3	1180.0	1398.3	1595.0	1736.7	1920.0	2243.3	2353.3	85°
87.5°	0.0	0.0	0.0	0.0	0.0	1.7	0.0	120.0	86.7	238.3	340.0	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°



IUMBER: P153380

NUMBER: VWM-E05-LED-E1-SLR

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1748.3	1748.3	1748.3	1748.3	1748.3	1748.3	1748.3
1728.3	1730.0	1726.7	1726.7	1728.3	1728.3	1725.0
1725.0	1725.0	1721.7	1718.3	1715.0	1715.0	1711.7
1763.3	1763.3	1751.7	1746.7	1738.3	1731.7	1728.3
1820.0	1810.0	1796.7	1786.7	1773.3	1758.3	1750.0
1876.7	1861.7	1845.0	1830.0	1813.3	1796.7	1788.3
1970.0	1950.0	1928.3	1910.0	1886.7	1861.7	1851.7
2113.3	2081.7	2053.3	2026.7	1985.0	1966.7	1946.7
2303.3	2256.7	2220.0	2175.0	2123.3	2106.7	2081.7
2533.3	2493.3	2420.0	2386.7	2335.0	2310.0	2315.0
2883.3	2831.7	2746.7	2715.0	2710.0	2655.0	2628.3
3340.0	3343.3	3265.0	3180.0	3133.3	3046.7	2936.7
3990.0	3945.0	3853.3	3766.7	3656.7	3493.3	3310.0
4776.7	4676.7	4525.0	4363.3	4168.3	3916.7	3660.0
5545.0	5370.0	5128.3	4858.3	4576.7	4263.3	3900.0
6220.0	5948.3	5586.7	5276.7	4878.3	4486.7	4043.3
6836.7	6500.0	6033.3	5631.7	5161.7	4658.3	4133.3
7433.3	7006.7	6435.0	5891.7	5360.0	4773.3	4176.7
8001.7	7451.7	6773.3	6126.7	5505.0	4848.3	4183.3
8438.3	7838.3	7076.7	6296.7	5605.0	4905.0	4183.3
8843.3	8165.0	7308.3	6430.0	5698.3	4943.3	4186.7
9158.3	8395.0	7458.3	6525.0	5771.7	4971.7	4201.7
9386.7	8545.0	7558.3	6583.3	5825.0	5011.7	4235.0
9546.7	8643.3	7613.3	6635.0	5890.0	5081.7	4328.3
9623.3	8825.0	7705.0	6738.3	6001.7	5230.0	4515.0
9565.0	9106.7	7966.7	6913.3	6156.7	5461.7	4813.3
9540.0	9158.3	8038.3	6951.7	6191.7	5511.7	4916.7
9345.0	9210.0	8333.3	7145.0	6358.3	5733.3	5205.0
8740.0	9006.7	8581.7	7471.7	6716.7	6271.7	5743.3
7956.7	8705.0	8536.7	7513.3	6945.0	6713.3	6083.3
7018.3	7793.3	7636.7	6958.3	6693.3	6718.3	5995.0
5523.3	6105.0	6001.7	5763.3	5816.7	6000.0	5135.0
4425.0	4346.7	4108.3	4125.0	4433.3	4648.3	3696.7
3615.0	2926.7	2616.7	2625.0	3163.3	3386.7	2355.0
3440.0	2768.3	2255.0	1970.0	2301.7	2216.7	1230.0
2450.0	2455.0	2036.7	1655.0	1603.3	1363.3	766.7
580.0	465.0	331.7	246.7	260.0	171.7	86.7
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)