

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: P153379

Luminaire Tested: **VWM-E05-LED-E1-SLR-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P153379
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-7030
Description: VISION WALL MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12706.8 lumens
Efficiency: N/A
Efficacy: 99.8 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

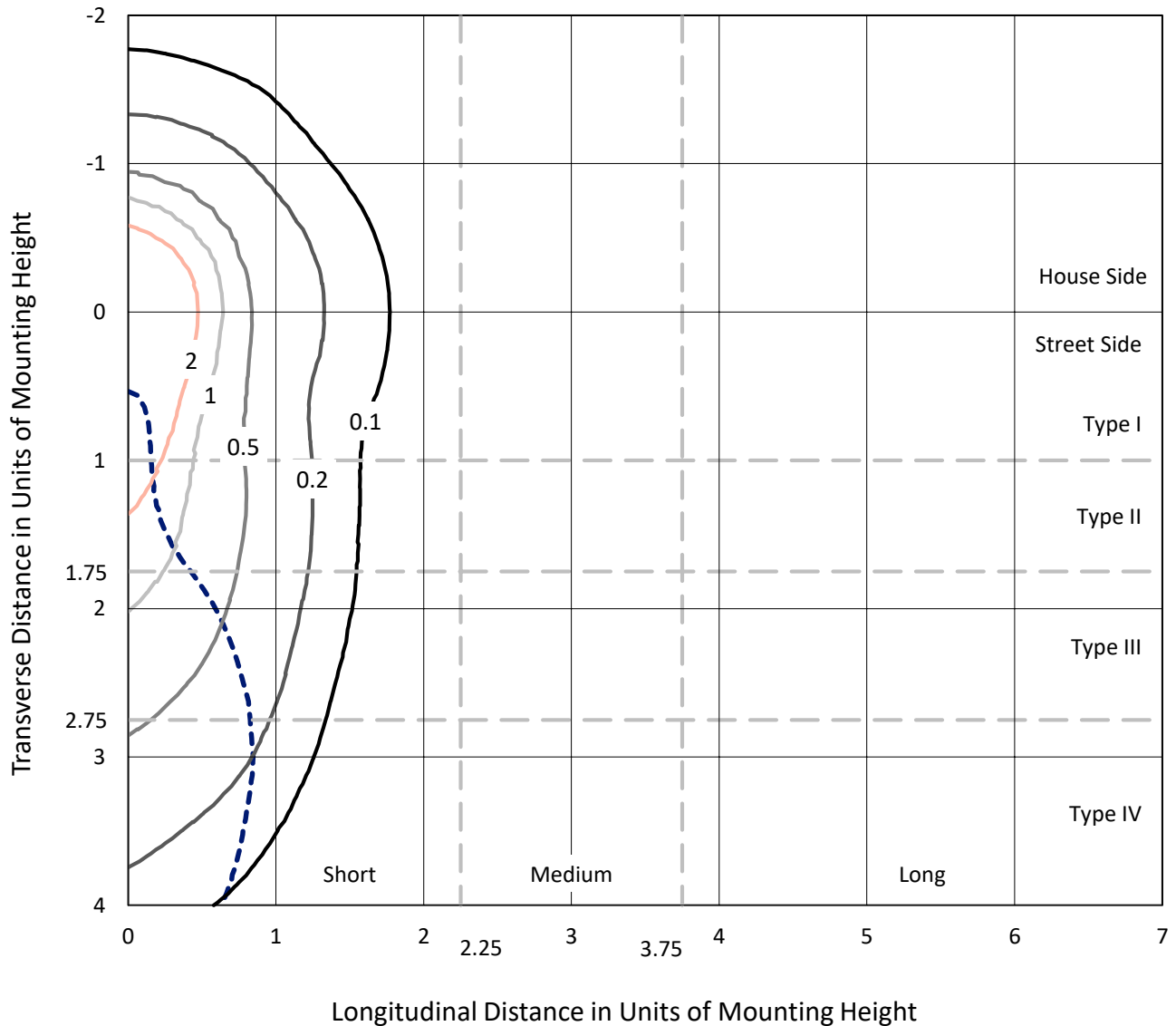


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Iso-Footcandle Lines of Horizontal Illumination

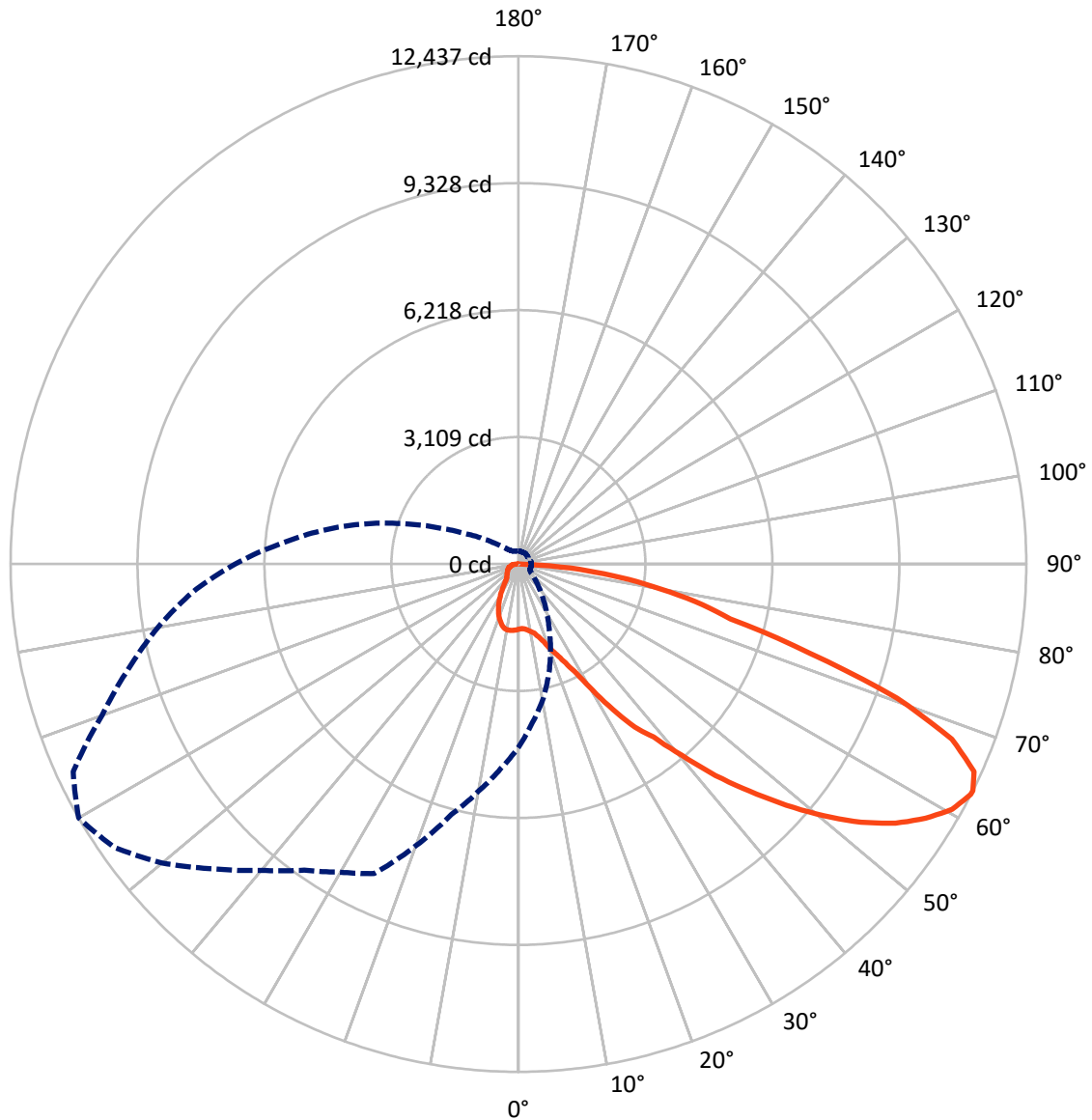
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 5 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	2755.4	0.0	2755.4
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	9951.4	0.0	9951.4
	% Fixture	78.3	0.0	78.3
Total	Lumens	12706.8	0.0	12706.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	155.4	1.2
10°-20°	484.1	3.8
20°-30°	860.1	6.8
30°-40°	1354.4	10.7
40°-50°	1993.2	15.7
50°-60°	2647.6	20.8
60°-70°	2916.3	23.0
70°-80°	1829.7	14.4
80°-90°	466.0	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°	12706.8	100.0
0°-180°	12706.8	100.0



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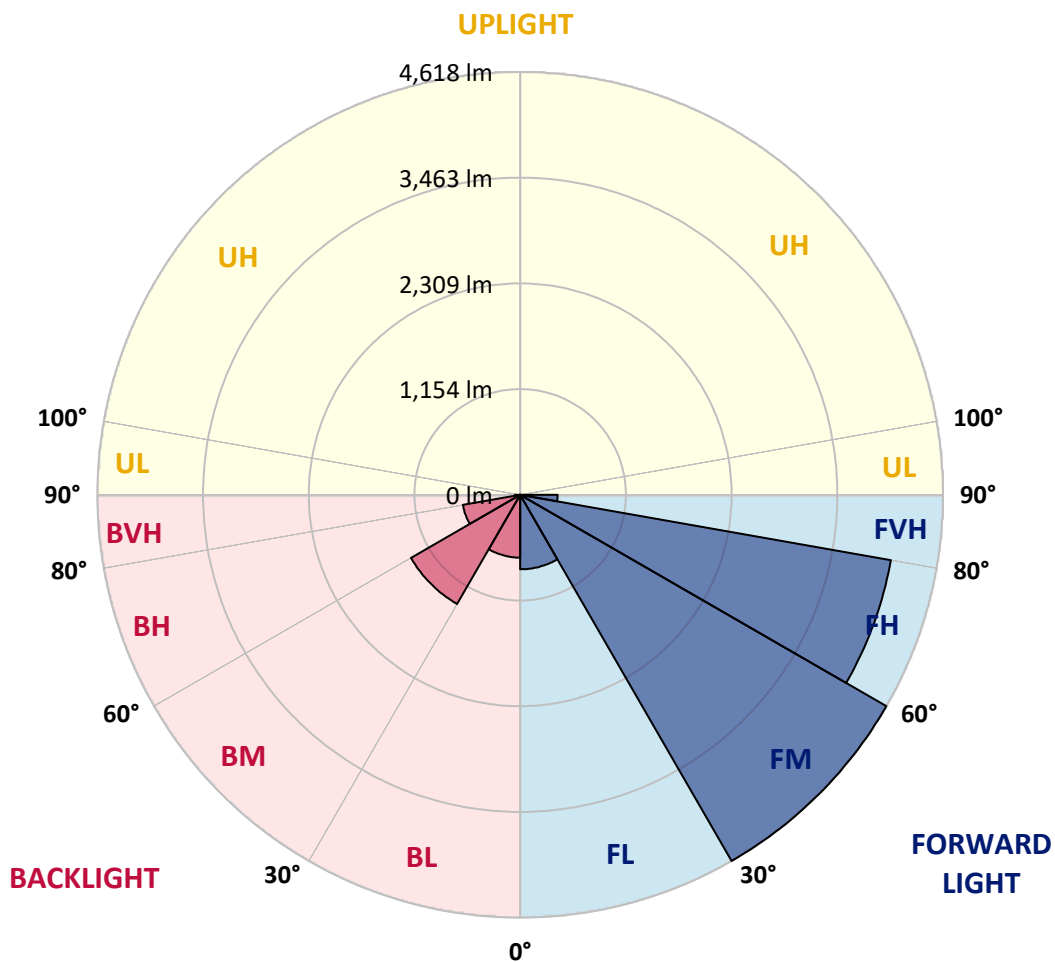
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	813.6	6.4			
FM (30°-60°)	4617.9	36.3			
FH (60°-80°)	4110.8	32.4			G2/5000
FVH (80°-90°)	408.9	3.2			G3/500
BL (0°-30°)	686.0	5.4	B2/1000		
BM (30°-60°)	1377.2	10.8	B2/2500		
BH (60°-80°)	635.1	5.0	B2/1000		G2/1000
BVH (80°-90°)	57.1	0.4			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1575.5	1580.1	1578.6	1578.6	1581.6	1580.1	1580.1	1581.6	1581.6	1586.2	1592.3
5°	1563.4	1561.8	1558.8	1561.8	1561.8	1561.8	1555.7	1560.3	1561.8	1564.9	1564.9
7.5°	1578.6	1574.0	1567.9	1569.4	1569.4	1566.4	1561.8	1563.4	1561.8	1561.8	1560.3
10°	1598.4	1587.7	1580.1	1580.1	1580.1	1577.1	1569.4	1574.0	1574.0	1572.5	1574.0
12.5°	1633.4	1621.2	1612.1	1609.0	1609.0	1604.5	1598.4	1604.5	1601.4	1601.4	1598.4
15°	1691.2	1677.5	1666.9	1657.7	1659.3	1659.3	1651.6	1647.1	1641.0	1633.4	1618.2
17.5°	1778.0	1762.8	1749.1	1741.5	1743.0	1732.3	1711.0	1689.7	1660.8	1631.9	1599.9
20°	1901.3	1896.7	1878.5	1870.8	1852.6	1826.7	1767.3	1717.1	1660.8	1606.0	1551.2
22.5°	2114.4	2093.1	2074.8	2045.9	1985.0	1913.5	1814.5	1726.2	1637.9	1560.3	1487.2
25°	2400.6	2362.5	2272.7	2184.4	2059.6	1931.7	1797.8	1683.6	1574.0	1472.0	1382.2
27.5°	2682.2	2566.5	2406.7	2246.8	2064.2	1896.7	1729.3	1593.8	1465.9	1354.8	1255.9
30°	3023.2	2828.3	2583.3	2330.6	2071.8	1846.5	1645.6	1487.2	1339.6	1222.4	1118.9
32.5°	3342.9	3061.2	2740.1	2408.2	2088.5	1799.3	1549.7	1370.0	1217.8	1070.1	968.2
35°	3562.1	3196.7	2807.0	2415.8	2047.4	1709.5	1429.4	1217.8	1065.6	928.6	808.3
37.5°	3693.0	3256.1	2810.1	2361.0	1951.5	1587.7	1277.2	1067.1	927.1	796.1	701.8
40°	3775.2	3269.8	2770.5	2281.9	1829.7	1434.0	1124.9	936.2	808.3	703.3	630.2
42.5°	3814.8	3248.5	2706.6	2181.4	1706.4	1297.0	1018.4	840.3	729.2	654.6	599.8
45°	3820.8	3210.4	2638.1	2090.1	1596.8	1198.0	945.3	800.7	709.4	647.0	592.2
47.5°	3820.8	3176.9	2583.3	2023.1	1525.3	1155.4	939.2	817.4	727.6	657.6	592.2
50°	3823.9	3166.3	2560.4	1989.6	1500.9	1178.2	991.0	869.2	767.2	675.9	590.6
52.5°	3837.6	3180.0	2578.7	2015.5	1545.1	1269.6	1088.4	946.8	819.0	697.2	590.6
55°	3868.0	3225.6	2656.3	2105.3	1663.8	1408.1	1205.6	1030.6	860.1	706.3	581.5
57.5°	3953.3	3341.3	2797.9	2278.8	1866.3	1567.9	1312.2	1089.9	875.3	698.7	563.2
60°	4123.8	3571.2	3039.9	2522.4	2080.9	1704.9	1374.6	1099.1	861.6	674.4	534.3
62.5°	4396.3	3834.5	3333.7	2787.2	2271.2	1781.0	1382.2	1076.2	825.1	630.2	491.7
63°	4490.6	3900.0	3396.1	2837.5	2295.6	1787.1	1376.1	1067.1	815.9	618.0	485.6
65°	4754.0	4175.5	3612.3	3014.1	2364.1	1788.6	1342.6	1021.4	773.3	570.8	443.0
67.5°	5245.7	4537.8	3884.8	3152.6	2388.4	1739.9	1257.4	936.2	683.5	497.8	389.7
70°	5556.2	4740.3	3989.8	3155.6	2316.9	1601.4	1109.7	797.7	569.3	412.5	334.9
72.5°	5475.5	4540.9	3712.8	2871.0	2007.8	1338.1	892.0	627.2	444.5	330.3	278.6
75°	4690.1	3779.7	3029.3	2224.0	1517.7	983.4	653.0	447.5	328.8	258.8	232.9
77.5°	3376.4	2720.3	2172.3	1584.7	1023.0	636.3	433.8	319.7	249.6	213.1	191.8
80°	2150.9	1595.3	1328.9	952.9	598.2	394.3	298.4	242.0	205.5	178.1	164.4
82.5°	1123.4	787.0	639.3	487.1	331.9	260.3	219.2	197.9	169.0	147.7	140.0
85°	700.2	464.3	344.0	240.5	165.9	149.2	137.0	134.0	120.3	106.6	102.0
87.5°	79.2	71.5	74.6	47.2	35.0	38.1	36.5	48.7	47.2	35.0	36.5
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1586.2	1589.2	1589.2	1593.8	1593.8	1596.8	1599.9	1599.9	1602.9	1604.5	1607.5
5°	1567.9	1567.9	1567.9	1574.0	1575.5	1584.7	1587.7	1590.8	1593.8	1604.5	1610.5
7.5°	1563.4	1557.3	1560.3	1560.3	1564.9	1572.5	1580.1	1584.7	1589.2	1602.9	1612.1
10°	1572.5	1567.9	1563.4	1563.4	1564.9	1567.9	1574.0	1578.6	1581.6	1595.3	1602.9
12.5°	1596.8	1586.2	1577.1	1569.4	1563.4	1561.8	1558.8	1560.3	1563.4	1571.0	1581.6
15°	1601.4	1581.6	1561.8	1542.0	1526.8	1517.7	1510.1	1507.0	1507.0	1511.6	1523.8
17.5°	1571.0	1537.5	1508.6	1482.7	1465.9	1449.2	1441.6	1435.5	1432.4	1438.5	1440.0
20°	1505.5	1465.9	1426.3	1395.9	1365.5	1360.9	1348.7	1351.8	1354.8	1363.9	1368.5
22.5°	1415.7	1368.5	1319.8	1287.8	1263.5	1242.2	1228.5	1234.5	1239.1	1248.2	1252.8
25°	1306.1	1237.6	1185.8	1153.9	1128.0	1109.7	1094.5	1100.6	1094.5	1105.2	1121.9
27.5°	1176.7	1096.0	1041.2	1004.7	986.4	971.2	956.0	956.0	971.2	971.2	984.9
30°	1019.9	960.5	889.0	850.9	828.1	819.0	817.4	814.4	825.1	831.1	846.4
32.5°	872.2	799.2	730.7	694.1	674.4	663.7	665.2	666.7	671.3	680.4	704.8
35°	723.1	659.1	610.4	569.3	549.5	529.7	529.7	526.7	531.3	541.9	570.8
37.5°	627.2	570.8	532.8	500.8	481.0	468.9	458.2	453.6	453.6	458.2	468.9
40°	573.9	532.8	497.8	470.4	452.1	441.5	435.4	430.8	427.8	427.8	429.3
42.5°	549.5	506.9	471.9	447.5	433.8	427.8	426.2	424.7	420.1	418.6	417.1
45°	537.4	488.6	449.1	429.3	418.6	415.6	417.1	417.1	415.6	412.5	406.4
47.5°	528.2	471.9	432.3	414.1	409.5	409.5	409.5	409.5	408.0	406.4	401.9
50°	513.0	446.0	403.4	389.7	386.7	386.7	388.2	388.2	391.2	388.2	385.1
52.5°	496.3	421.7	379.0	366.9	365.3	363.8	363.8	363.8	365.3	365.3	363.8
55°	478.0	403.4	366.9	357.7	359.3	357.7	356.2	354.7	354.7	353.2	350.1
57.5°	459.7	388.2	357.7	351.6	353.2	353.2	350.1	347.1	345.6	341.0	337.9
60°	432.3	366.9	339.5	336.4	341.0	341.0	341.0	339.5	339.5	337.9	330.3
62.5°	395.8	336.4	315.1	316.6	318.2	321.2	321.2	321.2	321.2	318.2	310.5
63°	388.2	330.3	310.5	310.5	315.1	315.1	316.6	315.1	316.6	313.6	304.5
65°	357.7	310.5	295.3	296.8	299.9	299.9	299.9	298.4	298.4	293.8	289.2
67.5°	322.7	286.2	277.0	278.6	280.1	283.1	281.6	281.6	283.1	280.1	275.5
70°	283.1	260.3	254.2	255.7	257.3	257.3	255.7	255.7	257.3	254.2	249.6
72.5°	252.7	243.6	239.0	239.0	235.9	235.9	232.9	231.4	229.9	229.9	225.3
75°	213.1	211.6	213.1	216.2	213.1	210.1	208.5	204.0	200.9	200.9	199.4
77.5°	182.7	182.7	185.7	190.3	191.8	191.8	187.2	179.6	178.1	178.1	178.1
80°	158.3	155.3	155.3	159.8	164.4	162.9	155.3	147.7	147.7	155.3	156.8
82.5°	138.5	138.5	134.0	135.5	134.0	132.4	124.8	120.3	118.7	124.8	130.9
85°	109.6	111.1	109.6	108.1	106.6	102.0	95.9	91.3	89.8	95.9	105.0
87.5°	44.1	42.6	41.1	42.6	41.1	44.1	42.6	39.6	38.1	42.6	51.8
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°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1609.0	1612.1	1615.1	1615.1	1618.2	1616.6	1618.2	1619.7	1619.7	1621.2	1621.2
5°	1618.2	1622.7	1628.8	1634.9	1636.4	1641.0	1645.6	1642.5	1647.1	1653.2	1653.2
7.5°	1621.2	1631.9	1636.4	1645.6	1647.1	1653.2	1663.8	1656.2	1665.3	1669.9	1671.4
10°	1616.6	1627.3	1634.9	1645.6	1650.1	1660.8	1671.4	1668.4	1679.0	1686.7	1688.2
12.5°	1589.2	1599.9	1616.6	1631.9	1644.0	1660.8	1680.6	1674.5	1689.7	1698.8	1703.4
15°	1536.0	1546.6	1564.9	1589.2	1612.1	1637.9	1663.8	1668.4	1683.6	1694.3	1698.8
17.5°	1452.2	1465.9	1485.7	1511.6	1540.5	1584.7	1618.2	1634.9	1656.2	1662.3	1669.9
20°	1374.6	1388.3	1400.5	1415.7	1437.0	1479.6	1523.8	1557.3	1584.7	1607.5	1613.6
22.5°	1271.1	1283.3	1298.5	1310.7	1325.9	1356.3	1392.9	1430.9	1473.5	1487.2	1502.5
25°	1146.3	1153.9	1175.2	1182.8	1193.4	1219.3	1248.2	1275.6	1316.7	1345.7	1353.3
27.5°	1012.3	1019.9	1039.7	1044.3	1058.0	1082.3	1103.6	1114.3	1152.3	1182.8	1207.1
30°	857.0	876.8	901.2	904.2	919.4	934.7	954.5	965.1	1000.1	1032.1	1062.5
32.5°	723.1	742.9	762.6	774.8	782.4	794.6	814.4	825.1	858.5	887.5	917.9
35°	586.1	610.4	631.7	648.5	654.6	669.8	685.0	695.7	730.7	756.6	777.9
37.5°	482.6	500.8	523.7	540.4	557.1	567.8	586.1	601.3	622.6	636.3	659.1
40°	432.3	441.5	453.6	467.3	481.0	493.2	506.9	519.1	532.8	551.1	566.3
42.5°	415.6	417.1	417.1	421.7	429.3	435.4	447.5	456.7	465.8	479.5	487.1
45°	403.4	401.9	398.8	395.8	397.3	400.4	408.0	414.1	424.7	430.8	432.3
47.5°	397.3	391.2	385.1	380.6	379.0	380.6	386.7	392.7	398.8	403.4	404.9
50°	377.5	373.0	363.8	357.7	354.7	357.7	365.3	368.4	374.5	379.0	380.6
52.5°	357.7	351.6	345.6	339.5	339.5	341.0	347.1	353.2	359.3	360.8	363.8
55°	345.6	336.4	330.3	325.8	322.7	327.3	331.9	339.5	347.1	348.6	351.6
57.5°	333.4	324.2	318.2	313.6	310.5	315.1	319.7	330.3	339.5	339.5	339.5
60°	325.8	318.2	309.0	304.5	299.9	304.5	310.5	321.2	330.3	328.8	327.3
62.5°	304.5	296.8	292.3	292.3	287.7	295.3	301.4	313.6	315.1	312.1	309.0
63°	298.4	292.3	289.2	289.2	286.2	293.8	299.9	310.5	310.5	307.5	304.5
65°	283.1	278.6	275.5	278.6	278.6	286.2	287.7	295.3	293.8	289.2	287.7
67.5°	271.0	267.9	264.9	264.9	264.9	266.4	267.9	271.0	269.4	267.9	269.4
70°	251.2	249.6	246.6	246.6	245.1	245.1	245.1	246.6	246.6	248.1	249.6
72.5°	226.8	223.8	223.8	225.3	222.2	223.8	225.3	223.8	226.8	226.8	228.3
75°	199.4	197.9	200.9	204.0	202.5	202.5	204.0	204.0	205.5	205.5	207.0
77.5°	178.1	179.6	181.1	184.2	185.7	185.7	185.7	184.2	185.7	185.7	187.2
80°	158.3	161.4	164.4	167.4	169.0	169.0	169.0	167.4	167.4	167.4	167.4
82.5°	143.1	147.7	150.7	152.2	152.2	152.2	152.2	152.2	152.2	149.2	146.1
85°	120.3	129.4	129.4	130.9	126.3	123.3	120.3	121.8	123.3	117.2	115.7
87.5°	60.9	60.9	63.9	67.0	68.5	68.5	77.6	73.1	71.5	70.0	67.0
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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CATALOG NUMBER: VWM-E05-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1622.7	1621.2	1624.2	1621.2	1622.7	1624.2	1621.2	1625.8	1628.8	1624.2	1619.7
5°	1656.2	1656.2	1663.8	1666.9	1668.4	1677.5	1673.0	1676.0	1679.0	1677.5	1679.0
7.5°	1677.5	1683.6	1691.2	1698.8	1700.4	1708.0	1706.4	1711.0	1714.1	1721.7	1721.7
10°	1695.8	1703.4	1714.1	1721.7	1729.3	1735.4	1738.4	1747.5	1749.1	1755.2	1755.2
12.5°	1712.5	1721.7	1732.3	1744.5	1752.1	1764.3	1765.8	1779.5	1784.1	1785.6	1781.0
15°	1709.5	1720.1	1732.3	1746.0	1759.7	1774.9	1784.1	1797.8	1805.4	1808.4	1800.8
17.5°	1680.6	1689.7	1704.9	1723.2	1739.9	1759.7	1776.5	1796.3	1808.4	1811.5	1810.0
20°	1624.2	1630.3	1650.1	1674.5	1694.3	1724.7	1749.1	1779.5	1799.3	1814.5	1819.1
22.5°	1513.1	1528.3	1548.1	1575.5	1604.5	1642.5	1677.5	1721.7	1764.3	1800.8	1837.4
25°	1379.2	1406.6	1437.0	1473.5	1508.6	1548.1	1587.7	1637.9	1700.4	1776.5	1863.2
27.5°	1243.7	1290.9	1328.9	1376.1	1417.2	1456.8	1500.9	1555.7	1624.2	1715.6	1826.7
30°	1106.7	1160.0	1201.1	1255.9	1310.7	1363.9	1408.1	1465.9	1532.9	1625.8	1747.5
32.5°	960.5	1013.8	1062.5	1112.8	1173.7	1237.6	1290.9	1362.4	1434.0	1529.9	1653.2
35°	809.8	857.0	898.1	951.4	1018.4	1086.9	1156.9	1239.1	1316.7	1417.2	1548.1
37.5°	678.9	712.4	752.0	799.2	850.9	924.0	1003.2	1100.6	1188.9	1298.5	1432.4
40°	570.8	589.1	611.9	651.5	698.7	770.3	847.9	951.4	1058.0	1178.2	1307.6
42.5°	487.1	496.3	502.3	528.2	566.3	636.3	710.9	811.4	928.6	1059.5	1190.4
45°	432.3	436.9	438.4	452.1	479.5	540.4	618.0	703.3	815.9	943.8	1080.8
47.5°	406.4	411.0	414.1	417.1	433.8	481.0	551.1	631.7	735.2	852.5	992.5
50°	385.1	389.7	394.3	392.7	400.4	430.8	490.2	564.8	662.2	770.3	908.8
52.5°	363.8	366.9	366.9	366.9	371.4	391.2	433.8	502.3	592.2	694.1	831.1
55°	351.6	354.7	356.2	357.7	359.3	369.9	401.9	456.7	534.3	628.7	752.0
57.5°	339.5	341.0	344.0	345.6	348.6	354.7	374.5	414.1	479.5	558.7	662.2
60°	328.8	331.9	337.9	339.5	342.5	344.0	353.2	377.5	420.1	481.0	564.8
62.5°	312.1	316.6	322.7	324.2	327.3	328.8	330.3	344.0	363.8	400.4	462.8
63°	307.5	312.1	319.7	321.2	322.7	322.7	324.2	333.4	351.6	383.6	429.3
65°	290.7	296.8	301.4	302.9	304.5	304.5	302.9	306.0	307.5	321.2	348.6
67.5°	272.5	277.0	280.1	281.6	280.1	281.6	280.1	277.0	274.0	277.0	289.2
70°	254.2	257.3	257.3	258.8	260.3	261.8	258.8	255.7	252.7	251.2	258.8
72.5°	232.9	235.9	235.9	237.5	237.5	240.5	240.5	239.0	239.0	240.5	242.0
75°	211.6	214.6	213.1	216.2	216.2	220.7	220.7	222.2	225.3	223.8	222.2
77.5°	191.8	193.3	193.3	194.8	196.4	204.0	208.5	210.1	210.1	207.0	204.0
80°	170.5	170.5	167.4	165.9	167.4	175.1	184.2	185.7	190.3	188.8	190.3
82.5°	143.1	137.0	132.4	132.4	135.5	140.0	143.1	146.1	149.2	149.2	152.2
85°	109.6	103.5	98.9	100.5	105.0	106.6	105.0	105.0	111.1	115.7	111.1
87.5°	65.5	59.4	56.3	51.8	53.3	57.8	56.3	51.8	53.3	42.6	39.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P153379

CATALOG NUMBER: VWM-E05-LED-E1-SLR-7030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
2.5°	1622.7	1621.2	1618.2	1613.6	1612.1	1609.0	1610.5	1606.0	1602.9	1599.9	1595.3
5°	1679.0	1679.0	1669.9	1669.9	1665.3	1663.8	1653.2	1648.6	1639.5	1642.5	1631.9
7.5°	1718.6	1723.2	1712.5	1711.0	1704.9	1703.4	1689.7	1685.1	1677.5	1674.5	1665.3
10°	1747.5	1747.5	1733.8	1723.2	1715.6	1708.0	1694.3	1688.2	1682.1	1683.6	1677.5
12.5°	1770.4	1759.7	1739.9	1724.7	1714.1	1706.4	1695.8	1691.2	1689.7	1700.4	1701.9
15°	1788.6	1773.4	1749.1	1738.4	1729.3	1727.8	1727.8	1732.3	1743.0	1762.8	1778.0
17.5°	1799.3	1790.2	1778.0	1774.9	1790.2	1799.3	1811.5	1825.2	1840.4	1867.8	1884.5
20°	1819.1	1825.2	1834.3	1846.5	1870.8	1893.7	1908.9	1928.7	1947.0	1980.4	2007.8
22.5°	1870.8	1905.9	1934.8	1959.1	1995.7	2027.6	2047.4	2074.8	2088.5	2111.4	2154.0
25°	1937.8	2009.4	2070.3	2122.0	2178.3	2211.8	2239.2	2274.2	2295.6	2333.6	2371.7
27.5°	1918.0	2020.0	2111.4	2207.3	2284.9	2371.7	2432.6	2490.4	2526.9	2583.3	2633.5
30°	1857.1	1978.9	2102.2	2228.6	2351.9	2476.7	2592.4	2697.4	2778.1	2858.8	2941.0
32.5°	1774.9	1915.0	2065.7	2221.0	2382.3	2555.9	2715.7	2874.0	3008.0	3125.2	3239.3
35°	1680.6	1838.9	1995.7	2187.5	2386.9	2607.6	2829.9	3049.1	3253.0	3460.1	3600.1
37.5°	1567.9	1729.3	1904.3	2125.1	2359.5	2632.0	2915.1	3201.3	3490.5	3769.1	4011.1
40°	1447.7	1612.1	1796.3	2035.2	2300.1	2616.7	2969.9	3355.0	3752.3	4155.7	4476.9
42.5°	1341.1	1510.1	1711.0	1953.0	2240.8	2597.0	3014.1	3487.5	3973.1	4472.4	4944.3
45°	1237.6	1423.3	1634.9	1895.2	2214.9	2612.2	3079.5	3610.8	4171.0	4776.8	5352.2
47.5°	1144.7	1333.5	1539.0	1823.7	2176.8	2619.8	3143.4	3734.1	4358.2	5014.3	5697.8
50°	1061.0	1243.7	1446.1	1732.3	2117.5	2615.2	3201.3	3845.2	4519.6	5201.5	5964.2
52.5°	978.8	1164.5	1371.5	1644.0	2044.4	2589.3	3228.7	3936.5	4668.7	5390.3	6178.8
55°	898.1	1080.8	1289.3	1560.3	1948.5	2522.4	3225.6	3995.9	4787.5	5568.4	6385.8
57.5°	803.7	977.3	1181.3	1467.4	1846.5	2418.9	3180.0	4023.3	4889.5	5745.0	6634.0
60°	686.5	849.4	1045.8	1332.0	1712.5	2286.4	3084.1	4008.1	4948.8	5875.9	6845.6
62.5°	541.9	683.5	863.1	1143.2	1545.1	2096.1	2904.5	3869.6	4854.5	5857.6	6944.5
63°	511.5	645.4	820.5	1097.5	1473.5	2044.4	2851.2	3814.8	4808.8	5819.6	6930.8
65°	411.0	497.8	637.8	885.9	1233.0	1790.2	2586.3	3533.1	4563.7	5551.6	6732.9
67.5°	315.1	359.3	433.8	607.4	872.2	1408.1	2094.6	2994.3	3960.9	4889.5	6095.1
70°	269.4	289.2	321.2	403.4	554.1	889.0	1470.5	2233.1	3070.4	3875.6	4959.5
72.5°	245.1	254.2	271.0	306.0	380.6	532.8	937.7	1453.7	2088.5	2762.9	3600.1
75°	225.3	232.9	246.6	264.9	292.3	354.7	534.3	889.0	1357.8	1814.5	2429.5
77.5°	205.5	210.1	225.3	242.0	260.3	292.3	353.2	511.5	780.9	1070.1	1464.4
80°	188.8	185.7	196.4	223.8	242.0	260.3	278.6	331.9	444.5	586.1	791.6
82.5°	150.7	153.7	162.9	190.3	197.9	193.3	196.4	205.5	248.1	271.0	404.9
85°	102.0	94.4	92.9	95.9	95.9	91.3	91.3	89.8	98.9	112.6	193.3
87.5°	27.4	13.7	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

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REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	0°
2.5°	1592.3	1590.8	1592.3	1584.7	1584.7	1583.1	1581.6	1578.6	1578.6	1572.5	1577.1	2.5°
5°	1622.7	1619.7	1613.6	1604.5	1599.9	1593.8	1593.8	1587.7	1583.1	1577.1	1578.6	5°
7.5°	1657.7	1659.3	1648.6	1641.0	1637.9	1631.9	1633.4	1624.2	1625.8	1621.2	1618.2	7.5°
10°	1677.5	1677.5	1680.6	1679.0	1682.1	1682.1	1686.7	1680.6	1677.5	1673.0	1673.0	10°
12.5°	1709.5	1715.6	1727.8	1727.8	1736.9	1739.9	1741.5	1744.5	1738.4	1735.4	1724.7	12.5°
15°	1788.6	1803.9	1814.5	1829.7	1848.0	1854.1	1854.1	1848.0	1845.0	1840.4	1820.6	15°
17.5°	1919.6	1953.0	1962.2	1986.5	1989.6	1997.2	2018.5	2006.3	1998.7	1966.7	1960.7	17.5°
20°	2053.5	2096.1	2138.8	2169.2	2184.4	2214.9	2219.4	2213.4	2182.9	2152.5	2138.8	20°
22.5°	2214.9	2278.8	2327.5	2374.7	2397.5	2412.8	2446.3	2438.6	2414.3	2368.6	2350.4	22.5°
25°	2443.2	2522.4	2574.1	2632.0	2662.4	2677.6	2711.1	2711.1	2685.2	2671.5	2670.0	25°
27.5°	2730.9	2828.3	2913.6	2933.4	3012.5	3030.8	3062.8	3062.8	3038.4	3021.7	3102.3	27.5°
30°	3050.6	3152.6	3300.2	3399.2	3495.1	3589.5	3587.9	3594.0	3623.0	3638.2	3673.2	30°
32.5°	3370.3	3496.6	3653.4	3868.0	4073.5	4248.6	4475.4	4620.0	4575.9	4452.6	4403.9	32.5°
35°	3758.4	3898.5	4088.8	4304.9	4680.9	4907.7	5017.3	5095.0	5104.1	5120.9	5155.9	35°
37.5°	4190.8	4425.2	4645.9	4891.0	5099.5	5375.1	5629.3	5833.3	5880.5	5976.4	5921.6	37.5°
40°	4737.2	4999.1	5230.5	5547.1	5827.2	6159.0	6522.8	6802.9	6915.6	6879.1	6605.0	40°
42.5°	5309.6	5633.8	5904.8	6277.8	6641.6	7080.0	7456.0	7847.2	7917.2	7635.6	7226.1	42.5°
45°	5836.3	6238.2	6574.6	6962.8	7407.3	7932.4	8434.8	8836.7	8823.0	8340.4	7792.4	45°
47.5°	6309.7	6802.9	7213.9	7719.3	8197.3	8823.0	9399.9	9696.7	9521.7	8950.8	8279.5	47.5°
50°	6700.9	7315.9	7822.8	8334.3	8941.7	9695.2	10250.8	10418.3	10080.3	9459.3	8752.9	50°
52.5°	7016.1	7787.8	8357.2	8946.3	9713.5	10506.6	10984.6	10922.1	10485.3	9847.4	9144.2	52.5°
55°	7282.4	8148.6	8827.5	9523.2	10474.6	11205.3	11523.4	11356.0	10745.6	10098.6	9412.1	55°
57.5°	7558.0	8498.7	9259.9	10066.6	11126.1	11753.3	11929.9	11585.8	10868.9	10194.5	9527.8	57.5°
60°	7833.5	8791.0	9641.9	10541.6	11619.3	12200.8	12152.1	11637.6	10832.3	10124.5	9450.1	60°
62.5°	8019.2	8964.5	9864.2	10833.9	11989.2	12429.2	12130.8	11453.4	10620.7	9849.0	9218.7	62.5°
63°	8023.8	8970.6	9877.9	10853.6	12030.3	12436.8	12089.7	11388.0	10553.8	9792.6	9150.2	63°
65°	7927.9	8856.5	9756.1	10763.8	11995.3	12261.7	11735.0	11001.3	10171.7	9402.9	8794.0	65°
67.5°	7437.7	8384.6	9179.2	10129.1	11368.2	11444.3	10785.1	10193.0	9447.1	8650.9	8014.6	67.5°
70°	6449.8	7236.8	8016.2	8809.3	9849.0	9835.3	9215.7	8914.3	8261.3	7354.0	6844.0	70°
72.5°	5130.0	5836.3	6384.3	6915.6	7600.6	7462.1	7063.2	7147.0	6723.8	6046.4	5743.5	72.5°
75°	3808.7	4585.0	4852.9	5069.1	5358.3	5359.8	5469.4	5706.9	5700.8	5324.8	4942.7	75°
77.5°	2498.0	3347.4	3437.2	3610.8	3957.9	4429.7	4916.9	5440.5	5571.4	5274.6	4709.8	77.5°
80°	1392.9	2275.8	2172.3	2321.4	2695.9	3336.8	4055.3	4633.7	4974.7	4808.8	4210.5	80°
82.5°	712.4	1312.2	1254.3	1461.4	1764.3	2321.4	2796.4	3240.9	3642.7	3619.9	3393.1	82.5°
85°	369.9	718.5	817.4	925.5	1077.8	1277.2	1456.8	1586.2	1753.6	2048.9	2149.4	85°
87.5°	0.0	0.0	0.0	0.0	0.0	1.5	0.0	109.6	79.2	217.7	310.5	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°



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DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1596.8	1596.8	1596.8	1596.8	1596.8	1596.8	1596.8
1578.6	1580.1	1577.1	1577.1	1578.6	1578.6	1575.5
1575.5	1575.5	1572.5	1569.4	1566.4	1566.4	1563.4
1610.5	1610.5	1599.9	1595.3	1587.7	1581.6	1578.6
1662.3	1653.2	1641.0	1631.9	1619.7	1606.0	1598.4
1714.1	1700.4	1685.1	1671.4	1656.2	1641.0	1633.4
1799.3	1781.0	1761.2	1744.5	1723.2	1700.4	1691.2
1930.2	1901.3	1875.4	1851.1	1813.0	1796.3	1778.0
2103.8	2061.1	2027.6	1986.5	1939.3	1924.1	1901.3
2313.8	2277.3	2210.3	2179.9	2132.7	2109.8	2114.4
2633.5	2586.3	2508.7	2479.7	2475.2	2424.9	2400.6
3050.6	3053.6	2982.1	2904.5	2861.8	2782.7	2682.2
3644.3	3603.2	3519.4	3440.3	3339.8	3190.6	3023.2
4362.8	4271.4	4132.9	3985.3	3807.1	3577.3	3342.9
5064.5	4904.7	4684.0	4437.4	4180.1	3893.9	3562.1
5681.0	5432.9	5102.6	4819.4	4455.6	4097.9	3693.0
6244.3	5936.8	5510.5	5143.7	4714.4	4254.7	3775.2
6789.2	6399.5	5877.4	5381.2	4895.6	4359.7	3814.8
7308.3	6806.0	6186.4	5595.8	5028.0	4428.2	3820.8
7707.2	7159.1	6463.5	5751.1	5119.3	4480.0	3820.8
8077.1	7457.5	6675.1	5872.8	5204.6	4515.0	3823.9
8364.8	7667.6	6812.1	5959.6	5271.6	4540.9	3837.6
8573.3	7804.6	6903.4	6012.9	5320.3	4577.4	3868.0
8719.5	7894.4	6953.6	6060.1	5379.6	4641.3	3953.3
8789.5	8060.3	7037.4	6154.5	5481.6	4776.8	4123.8
8736.2	8317.6	7276.4	6314.3	5623.2	4988.4	4396.3
8713.4	8364.8	7341.8	6349.3	5655.2	5034.1	4490.6
8535.3	8412.0	7611.3	6525.9	5807.4	5236.5	4754.0
7982.7	8226.2	7838.1	6824.2	6134.7	5728.2	5245.7
7267.2	7950.7	7797.0	6862.3	6343.2	6131.6	5556.2
6410.2	7118.0	6975.0	6355.4	6113.4	6136.2	5475.5
5044.7	5576.0	5481.6	5263.9	5312.7	5480.1	4690.1
4041.6	3970.0	3752.3	3767.6	4049.2	4245.6	3376.4
3301.8	2673.1	2389.9	2397.5	2889.2	3093.2	2150.9
3141.9	2528.5	2059.6	1799.3	2102.2	2024.6	1123.4
2237.7	2242.3	1860.2	1511.6	1464.4	1245.2	700.2
529.7	424.7	302.9	225.3	237.5	156.8	79.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)