

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: P153385

Luminaire Tested: **VWM-F05-LED-E1-SLR**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P153385
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-F05-LED-E1-SLR
Description: VISION WALL MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11484.9 lumens
Efficiency: N/A
Efficacy: 86.2 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): 133.3
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

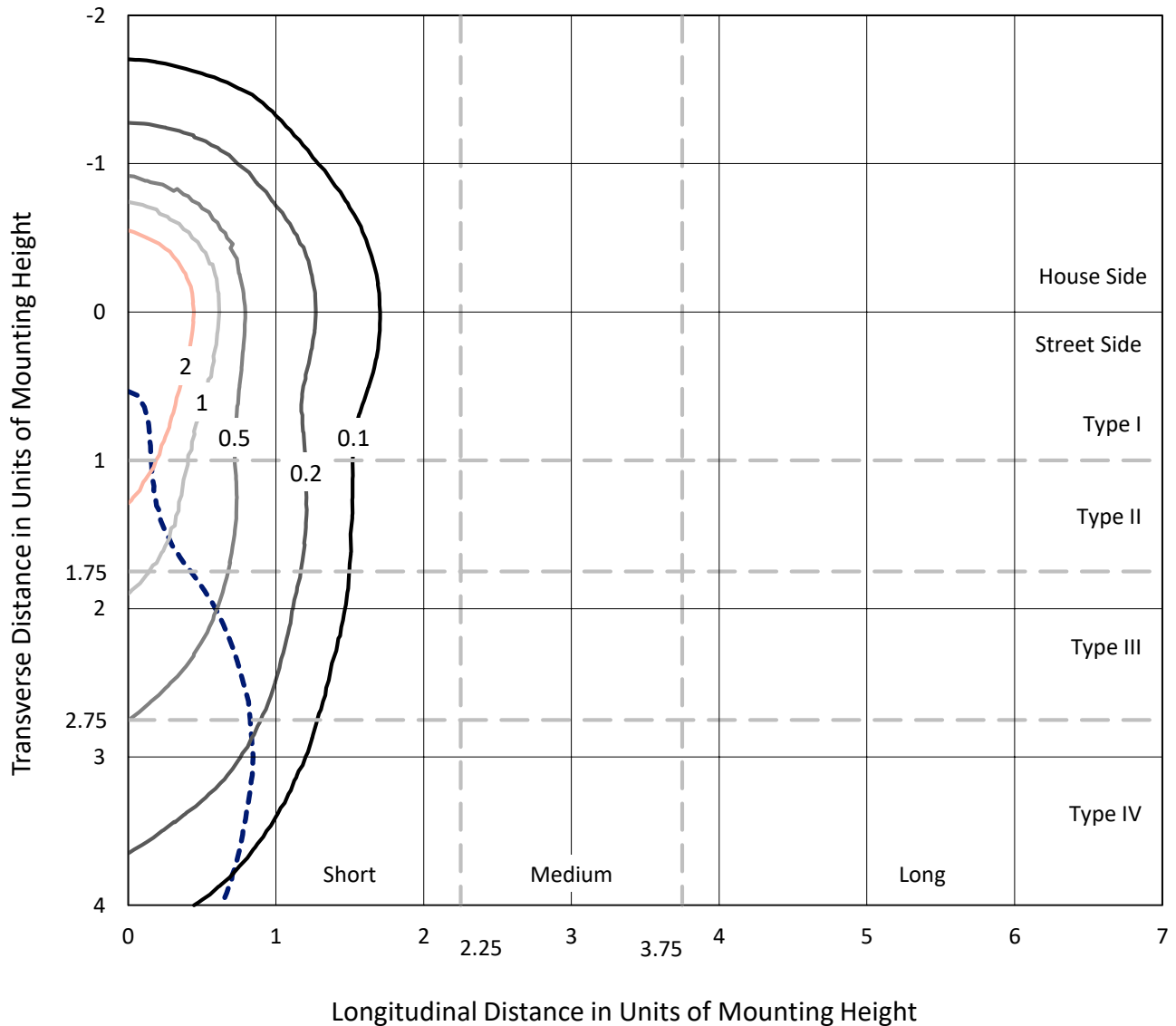


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

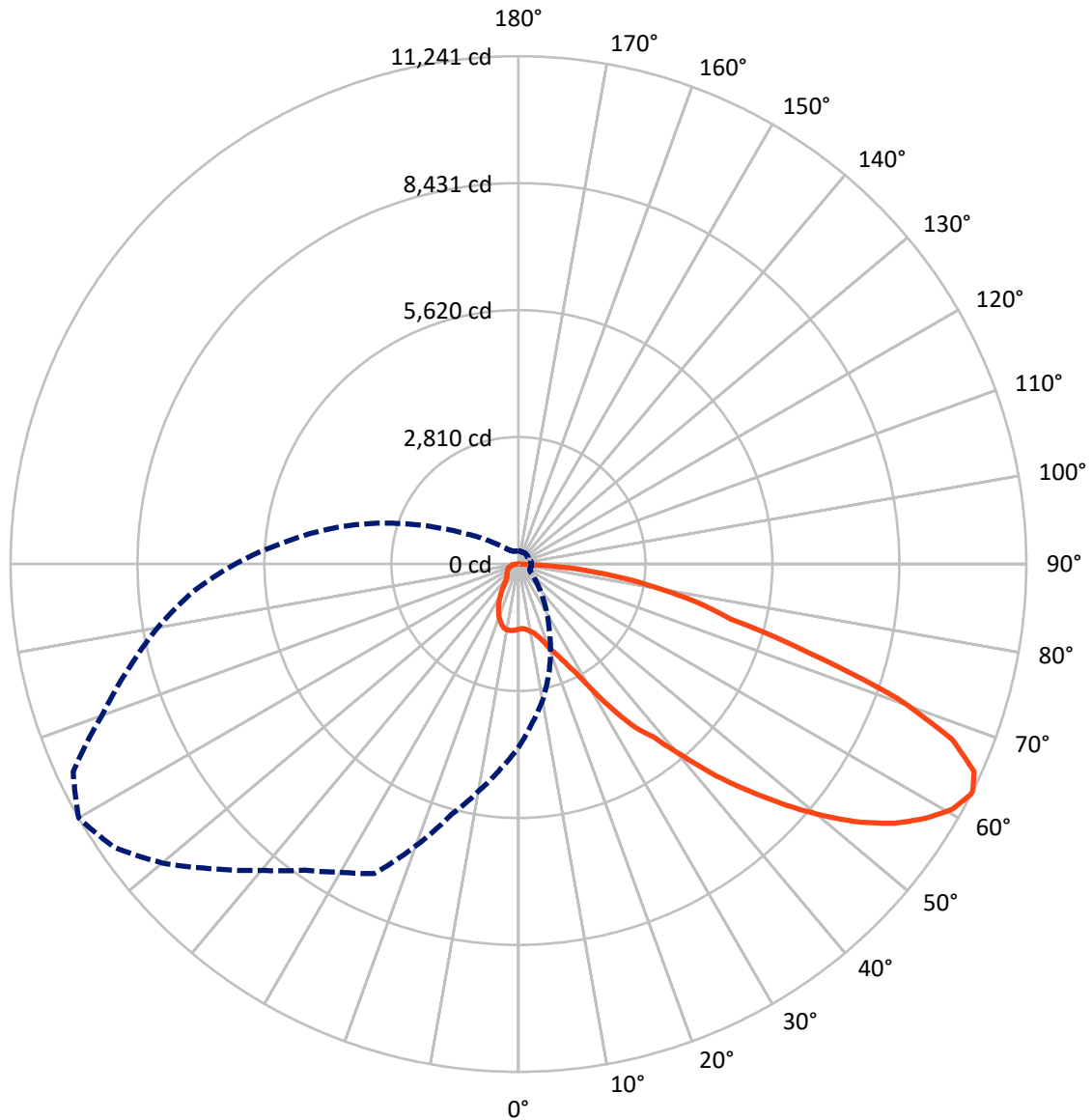


Based on 20 foot mounting height. Maximum calculated value = 4.5 fc
 Type IV - Short - Non-Cutoff

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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	2490.5	0.0	2490.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8994.5	0.0	8994.5
	% Fixture	78.3	0.0	78.3
Total	Lumens	11484.9	0.0	11484.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	140.5	1.2
10°-20°	437.6	3.8
20°-30°	777.4	6.8
30°-40°	1224.1	10.7
40°-50°	1801.6	15.7
50°-60°	2393.0	20.8
60°-70°	2635.9	23.0
70°-80°	1653.7	14.4
80°-90°	421.2	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°	11484.9	100.0
0°-180°	11484.9	100.0

Coefficient of Utilization



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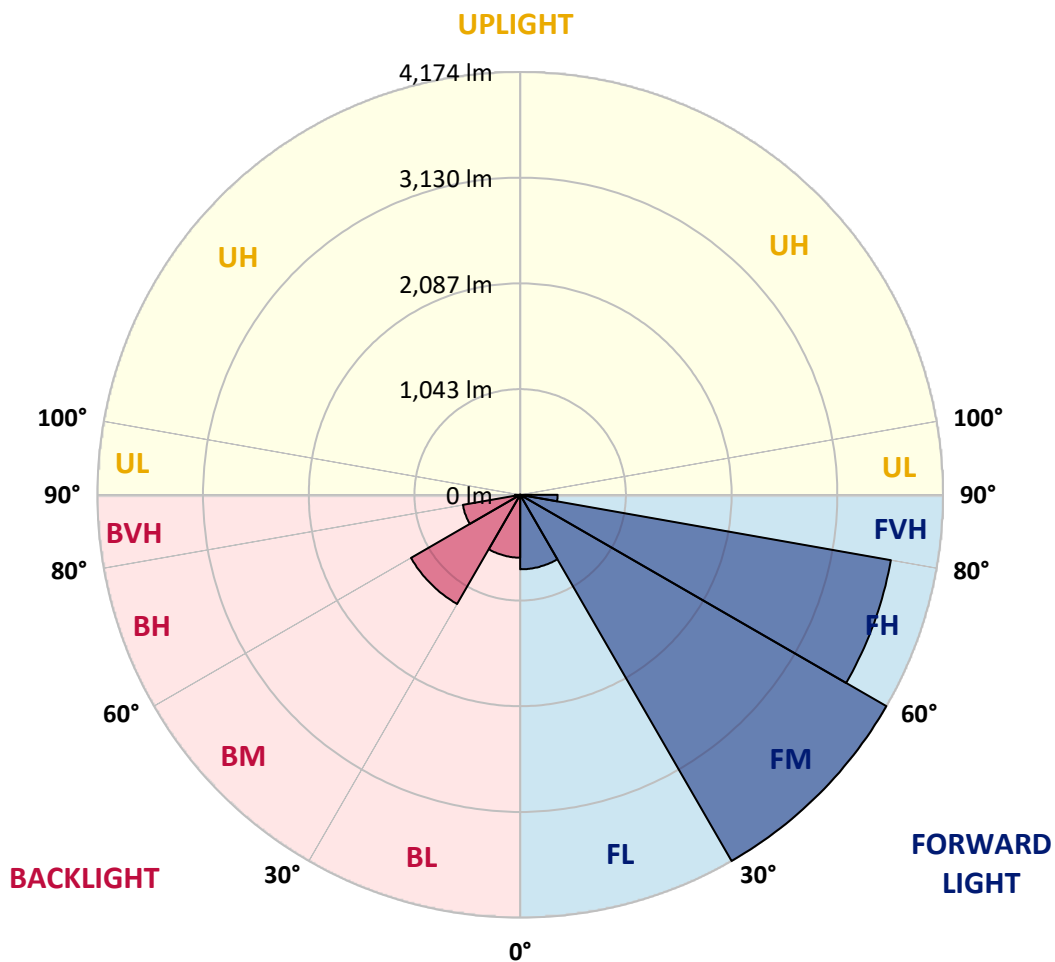
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	735.4	6.4			
FM (30°-60°)	4173.9	36.3			
FH (60°-80°)	3715.6	32.4			G2/5000
FVH (80°-90°)	369.6	3.2			G3/500
BL (0°-30°)	620.0	5.4	B2/1000		
BM (30°-60°)	1244.8	10.8	B2/2500		
BH (60°-80°)	574.1	5.0	B2/1000		G2/1000
BVH (80°-90°)	51.6	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°	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3
2.5°	1424.0	1428.2	1426.8	1426.8	1429.5	1428.2	1428.2	1429.5	1429.5	1433.7	1439.2
5°	1413.0	1411.6	1408.9	1411.6	1411.6	1411.6	1406.1	1410.3	1411.6	1414.4	1414.4
7.5°	1426.8	1422.7	1417.2	1418.5	1418.5	1415.8	1411.6	1413.0	1411.6	1411.6	1410.3
10°	1444.7	1435.0	1428.2	1428.2	1428.2	1425.4	1418.5	1422.7	1422.7	1421.3	1422.7
12.5°	1476.3	1465.3	1457.1	1454.3	1454.3	1450.2	1444.7	1450.2	1447.4	1447.4	1444.7
15°	1528.6	1516.2	1506.6	1498.3	1499.7	1499.7	1492.8	1488.7	1483.2	1476.3	1462.6
17.5°	1607.0	1593.3	1580.9	1574.0	1575.4	1565.7	1546.5	1527.2	1501.1	1474.9	1446.0
20°	1718.5	1714.3	1697.8	1691.0	1674.4	1651.0	1597.4	1552.0	1501.1	1451.5	1402.0
22.5°	1911.1	1891.8	1875.3	1849.2	1794.1	1729.5	1640.0	1560.2	1480.4	1410.3	1344.2
25°	2169.8	2135.4	2054.2	1974.4	1861.6	1746.0	1624.9	1521.7	1422.7	1330.5	1249.3
27.5°	2424.3	2319.7	2175.3	2030.8	1865.7	1714.3	1563.0	1440.5	1325.0	1224.5	1135.1
30°	2732.5	2556.4	2334.9	2106.5	1872.6	1668.9	1487.3	1344.2	1210.8	1104.8	1011.3
32.5°	3021.4	2766.9	2476.6	2176.6	1887.7	1626.3	1400.6	1238.3	1100.7	967.2	875.1
35°	3219.5	2889.3	2537.1	2183.5	1850.6	1545.1	1291.9	1100.7	963.1	839.3	730.6
37.5°	3337.9	2943.0	2539.9	2134.0	1763.9	1435.0	1154.4	964.5	837.9	719.6	634.3
40°	3412.2	2955.4	2504.1	2062.4	1653.8	1296.1	1016.8	846.2	730.6	635.7	569.6
42.5°	3447.9	2936.1	2446.3	1971.6	1542.4	1172.2	920.5	759.5	659.0	591.6	542.1
45°	3453.4	2901.7	2384.4	1889.1	1443.3	1082.8	854.4	723.7	641.2	584.7	535.2
47.5°	3453.4	2871.5	2334.9	1828.5	1378.6	1044.3	848.9	738.8	657.7	594.4	535.2
50°	3456.2	2861.8	2314.2	1798.3	1356.6	1064.9	895.7	785.6	693.4	610.9	533.8
52.5°	3468.6	2874.2	2330.7	1821.7	1396.5	1147.5	983.8	855.8	740.2	630.2	533.8
55°	3496.1	2915.5	2400.9	1902.8	1503.8	1272.7	1089.7	931.5	777.4	638.4	525.6
57.5°	3573.1	3020.0	2528.9	2059.7	1686.8	1417.2	1186.0	985.1	791.1	631.5	509.1
60°	3727.2	3227.8	2747.6	2279.8	1880.8	1541.0	1242.4	993.4	778.7	609.5	482.9
62.5°	3973.5	3465.8	3013.2	2519.2	2052.8	1609.8	1249.3	972.7	745.7	569.6	444.4
63°	4058.8	3525.0	3069.6	2564.6	2074.8	1615.3	1243.8	964.5	737.5	558.6	438.9
65°	4296.9	3774.0	3265.0	2724.2	2136.7	1616.7	1213.5	923.2	698.9	516.0	400.4
67.5°	4741.3	4101.5	3511.2	2849.4	2158.7	1572.6	1136.5	846.2	617.8	449.9	352.2
70°	5021.9	4284.5	3606.2	2852.2	2094.1	1447.4	1003.0	721.0	514.6	372.9	302.7
72.5°	4949.0	4104.2	3355.8	2594.9	1814.8	1209.4	806.3	566.9	401.8	298.6	251.8
75°	4239.1	3416.3	2738.0	2010.2	1371.7	888.8	590.3	404.5	297.2	233.9	210.5
77.5°	3051.7	2458.7	1963.4	1432.3	924.6	575.1	392.1	288.9	225.6	192.6	173.4
80°	1944.1	1441.9	1201.1	861.3	540.7	356.4	269.7	218.8	185.7	161.0	148.6
82.5°	1015.4	711.3	577.9	440.3	299.9	235.3	198.1	178.9	152.7	133.5	126.6
85°	632.9	419.6	310.9	217.4	150.0	134.8	123.8	121.1	108.7	96.3	92.2
87.5°	71.5	64.7	67.4	42.7	31.6	34.4	33.0	44.0	42.7	31.6	33.0
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°	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3
2.5°	1433.7	1436.4	1436.4	1440.5	1440.5	1443.3	1446.0	1446.0	1448.8	1450.2	1452.9
5°	1417.2	1417.2	1417.2	1422.7	1424.0	1432.3	1435.0	1437.8	1440.5	1450.2	1455.7
7.5°	1413.0	1407.5	1410.3	1410.3	1414.4	1421.3	1428.2	1432.3	1436.4	1448.8	1457.1
10°	1421.3	1417.2	1413.0	1413.0	1414.4	1417.2	1422.7	1426.8	1429.5	1441.9	1448.8
12.5°	1443.3	1433.7	1425.4	1418.5	1413.0	1411.6	1408.9	1410.3	1413.0	1419.9	1429.5
15°	1447.4	1429.5	1411.6	1393.8	1380.0	1371.7	1364.9	1362.1	1362.1	1366.2	1377.3
17.5°	1419.9	1389.6	1363.5	1340.1	1325.0	1309.8	1303.0	1297.5	1294.7	1300.2	1301.6
20°	1360.7	1325.0	1289.2	1261.7	1234.2	1230.0	1219.0	1221.8	1224.5	1232.8	1236.9
22.5°	1279.6	1236.9	1192.9	1164.0	1142.0	1122.7	1110.3	1115.8	1120.0	1128.2	1132.3
25°	1180.5	1118.6	1071.8	1042.9	1019.5	1003.0	989.3	994.8	989.3	998.9	1014.0
27.5°	1063.6	990.6	941.1	908.1	891.6	877.8	864.0	864.0	877.8	877.8	890.2
30°	921.8	868.2	803.5	769.1	748.5	740.2	738.8	736.1	745.7	751.2	765.0
32.5°	788.4	722.3	660.4	627.4	609.5	599.9	601.3	602.6	606.8	615.0	637.0
35°	653.5	595.8	551.7	514.6	496.7	478.8	478.8	476.1	480.2	489.8	516.0
37.5°	566.9	516.0	481.6	452.7	434.8	423.8	414.1	410.0	410.0	414.1	423.8
40°	518.7	481.6	449.9	425.1	408.6	399.0	393.5	389.4	386.6	386.6	388.0
42.5°	496.7	458.2	426.5	404.5	392.1	386.6	385.2	383.9	379.7	378.4	377.0
45°	485.7	441.7	405.9	388.0	378.4	375.6	377.0	377.0	375.6	372.9	367.4
47.5°	477.4	426.5	390.7	374.2	370.1	370.1	370.1	370.1	368.7	367.4	363.2
50°	463.7	403.1	364.6	352.2	349.5	349.5	350.8	350.8	353.6	350.8	348.1
52.5°	448.5	381.1	342.6	331.6	330.2	328.8	328.8	328.8	330.2	330.2	328.8
55°	432.0	364.6	331.6	323.3	324.7	323.3	322.0	320.6	320.6	319.2	316.5
57.5°	415.5	350.8	323.3	317.8	319.2	319.2	316.5	313.7	312.3	308.2	305.4
60°	390.7	331.6	306.8	304.1	308.2	308.2	308.2	306.8	306.8	305.4	298.6
62.5°	357.7	304.1	284.8	286.2	287.6	290.3	290.3	290.3	290.3	287.6	280.7
63°	350.8	298.6	280.7	280.7	284.8	284.8	286.2	284.8	286.2	283.4	275.2
65°	323.3	280.7	266.9	268.3	271.0	271.0	271.0	269.7	269.7	265.5	261.4
67.5°	291.7	258.7	250.4	251.8	253.2	255.9	254.5	254.5	255.9	253.2	249.0
70°	255.9	235.3	229.8	231.1	232.5	232.5	231.1	231.1	232.5	229.8	225.6
72.5°	228.4	220.1	216.0	216.0	213.3	213.3	210.5	209.1	207.8	207.8	203.6
75°	192.6	191.2	192.6	195.4	192.6	189.9	188.5	184.4	181.6	181.6	180.2
77.5°	165.1	165.1	167.9	172.0	173.4	173.4	169.2	162.4	161.0	161.0	161.0
80°	143.1	140.3	140.3	144.5	148.6	147.2	140.3	133.5	133.5	140.3	141.7
82.5°	125.2	125.2	121.1	122.5	121.1	119.7	112.8	108.7	107.3	112.8	118.3
85°	99.1	100.4	99.1	97.7	96.3	92.2	86.7	82.6	81.2	86.7	94.9
87.5°	39.9	38.5	37.1	38.5	37.1	39.9	38.5	35.8	34.4	38.5	46.8
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°	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3
2.5°	1454.3	1457.1	1459.8	1459.8	1462.6	1461.2	1462.6	1463.9	1463.9	1465.3	1465.3
5°	1462.6	1466.7	1472.2	1477.7	1479.1	1483.2	1487.3	1484.6	1488.7	1494.2	1494.2
7.5°	1465.3	1474.9	1479.1	1487.3	1488.7	1494.2	1503.8	1497.0	1505.2	1509.3	1510.7
10°	1461.2	1470.8	1477.7	1487.3	1491.4	1501.1	1510.7	1508.0	1517.6	1524.5	1525.8
12.5°	1436.4	1446.0	1461.2	1474.9	1485.9	1501.1	1519.0	1513.5	1527.2	1535.5	1539.6
15°	1388.3	1397.9	1414.4	1436.4	1457.1	1480.4	1503.8	1508.0	1521.7	1531.3	1535.5
17.5°	1312.6	1325.0	1342.9	1366.2	1392.4	1432.3	1462.6	1477.7	1497.0	1502.5	1509.3
20°	1242.4	1254.8	1265.8	1279.6	1298.8	1337.4	1377.3	1407.5	1432.3	1452.9	1458.4
22.5°	1148.9	1159.9	1173.6	1184.6	1198.4	1225.9	1258.9	1293.3	1331.8	1344.2	1358.0
25°	1036.0	1042.9	1062.2	1069.1	1078.7	1102.1	1128.2	1153.0	1190.1	1216.3	1223.2
27.5°	915.0	921.8	939.7	943.9	956.2	978.2	997.5	1007.1	1041.5	1069.1	1091.1
30°	774.6	792.5	814.5	817.3	831.0	844.8	862.7	872.3	903.9	932.8	960.4
32.5°	653.5	671.4	689.3	700.3	707.2	718.2	736.1	745.7	776.0	802.1	829.7
35°	529.7	551.7	571.0	586.1	591.6	605.4	619.1	628.8	660.4	683.8	703.1
37.5°	436.2	452.7	473.3	488.4	503.6	513.2	529.7	543.5	562.7	575.1	595.8
40°	390.7	399.0	410.0	422.4	434.8	445.8	458.2	469.2	481.6	498.1	511.8
42.5°	375.6	377.0	377.0	381.1	388.0	393.5	404.5	412.8	421.0	433.4	440.3
45°	364.6	363.2	360.5	357.7	359.1	361.9	368.7	374.2	383.9	389.4	390.7
47.5°	359.1	353.6	348.1	344.0	342.6	344.0	349.5	355.0	360.5	364.6	366.0
50°	341.2	337.1	328.8	323.3	320.6	323.3	330.2	333.0	338.5	342.6	344.0
52.5°	323.3	317.8	312.3	306.8	306.8	308.2	313.7	319.2	324.7	326.1	328.8
55°	312.3	304.1	298.6	294.4	291.7	295.8	299.9	306.8	313.7	315.1	317.8
57.5°	301.3	293.1	287.6	283.4	280.7	284.8	288.9	298.6	306.8	306.8	306.8
60°	294.4	287.6	279.3	275.2	271.0	275.2	280.7	290.3	298.6	297.2	295.8
62.5°	275.2	268.3	264.2	264.2	260.0	266.9	272.4	283.4	284.8	282.1	279.3
63°	269.7	264.2	261.4	261.4	258.7	265.5	271.0	280.7	280.7	277.9	275.2
65°	255.9	251.8	249.0	251.8	251.8	258.7	260.0	266.9	265.5	261.4	260.0
67.5°	244.9	242.2	239.4	239.4	239.4	240.8	242.2	244.9	243.5	242.2	243.5
70°	227.0	225.6	222.9	222.9	221.5	221.5	221.5	222.9	222.9	224.3	225.6
72.5°	205.0	202.3	202.3	203.6	200.9	202.3	203.6	202.3	205.0	205.0	206.4
75°	180.2	178.9	181.6	184.4	183.0	183.0	184.4	184.4	185.7	185.7	187.1
77.5°	161.0	162.4	163.7	166.5	167.9	167.9	167.9	166.5	167.9	167.9	169.2
80°	143.1	145.8	148.6	151.3	152.7	152.7	152.7	151.3	151.3	151.3	151.3
82.5°	129.3	133.5	136.2	137.6	137.6	137.6	137.6	137.6	137.6	134.8	132.1
85°	108.7	116.9	116.9	118.3	114.2	111.4	108.7	110.1	111.4	105.9	104.6
87.5°	55.0	55.0	57.8	60.5	61.9	61.9	70.2	66.0	64.7	63.3	60.5
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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CATALOG NUMBER: VWM-F05-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3
2.5°	1466.7	1465.3	1468.1	1465.3	1466.7	1468.1	1465.3	1469.4	1472.2	1468.1	1463.9
5°	1497.0	1497.0	1503.8	1506.6	1508.0	1516.2	1512.1	1514.8	1517.6	1516.2	1517.6
7.5°	1516.2	1521.7	1528.6	1535.5	1536.9	1543.7	1542.4	1546.5	1549.2	1556.1	1556.1
10°	1532.7	1539.6	1549.2	1556.1	1563.0	1568.5	1571.2	1579.5	1580.9	1586.4	1586.4
12.5°	1547.9	1556.1	1565.7	1576.8	1583.6	1594.6	1596.0	1608.4	1612.5	1613.9	1609.8
15°	1545.1	1554.7	1565.7	1578.1	1590.5	1604.3	1612.5	1624.9	1631.8	1634.5	1627.7
17.5°	1519.0	1527.2	1541.0	1557.5	1572.6	1590.5	1605.6	1623.5	1634.5	1637.3	1635.9
20°	1468.1	1473.6	1491.4	1513.5	1531.3	1558.9	1580.9	1608.4	1626.3	1640.0	1644.2
22.5°	1367.6	1381.4	1399.3	1424.0	1450.2	1484.6	1516.2	1556.1	1594.6	1627.7	1660.7
25°	1246.5	1271.3	1298.8	1331.8	1363.5	1399.3	1435.0	1480.4	1536.9	1605.6	1684.1
27.5°	1124.1	1166.7	1201.1	1243.8	1280.9	1316.7	1356.6	1406.1	1468.1	1550.6	1651.0
30°	1000.3	1048.4	1085.6	1135.1	1184.6	1232.8	1272.7	1325.0	1385.5	1469.4	1579.5
32.5°	868.2	916.3	960.4	1005.8	1060.8	1118.6	1166.7	1231.4	1296.1	1382.8	1494.2
35°	732.0	774.6	811.8	859.9	920.5	982.4	1045.7	1120.0	1190.1	1280.9	1399.3
37.5°	613.6	643.9	679.7	722.3	769.1	835.2	906.7	994.8	1074.6	1173.6	1294.7
40°	516.0	532.5	553.1	588.9	631.5	696.2	766.4	859.9	956.2	1064.9	1181.9
42.5°	440.3	448.5	454.0	477.4	511.8	575.1	642.5	733.3	839.3	957.6	1075.9
45°	390.7	394.9	396.3	408.6	433.4	488.4	558.6	635.7	737.5	853.0	976.9
47.5°	367.4	371.5	374.2	377.0	392.1	434.8	498.1	571.0	664.5	770.5	897.1
50°	348.1	352.2	356.4	355.0	361.9	389.4	443.0	510.4	598.5	696.2	821.4
52.5°	328.8	331.6	331.6	331.6	335.7	353.6	392.1	454.0	535.2	627.4	751.2
55°	317.8	320.6	322.0	323.3	324.7	334.3	363.2	412.8	482.9	568.2	679.7
57.5°	306.8	308.2	310.9	312.3	315.1	320.6	338.5	374.2	433.4	504.9	598.5
60°	297.2	299.9	305.4	306.8	309.6	310.9	319.2	341.2	379.7	434.8	510.4
62.5°	282.1	286.2	291.7	293.1	295.8	297.2	298.6	310.9	328.8	361.9	418.3
63°	277.9	282.1	288.9	290.3	291.7	291.7	293.1	301.3	317.8	346.7	388.0
65°	262.8	268.3	272.4	273.8	275.2	275.2	273.8	276.6	277.9	290.3	315.1
67.5°	246.3	250.4	253.2	254.5	253.2	254.5	253.2	250.4	247.7	250.4	261.4
70°	229.8	232.5	232.5	233.9	235.3	236.7	233.9	231.1	228.4	227.0	233.9
72.5°	210.5	213.3	213.3	214.6	214.6	217.4	217.4	216.0	216.0	217.4	218.8
75°	191.2	194.0	192.6	195.4	195.4	199.5	199.5	200.9	203.6	202.3	200.9
77.5°	173.4	174.7	174.7	176.1	177.5	184.4	188.5	189.9	189.9	187.1	184.4
80°	154.1	154.1	151.3	150.0	151.3	158.2	166.5	167.9	172.0	170.6	172.0
82.5°	129.3	123.8	119.7	119.7	122.5	126.6	129.3	132.1	134.8	134.8	137.6
85°	99.1	93.6	89.4	90.8	94.9	96.3	94.9	94.9	100.4	104.6	100.4
87.5°	59.2	53.7	50.9	46.8	48.2	52.3	50.9	46.8	48.2	38.5	35.8
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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CATALOG NUMBER: VWM-F05-LED-E1-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3
2.5°	1466.7	1465.3	1462.6	1458.4	1457.1	1454.3	1455.7	1451.5	1448.8	1446.0	1441.9
5°	1517.6	1517.6	1509.3	1509.3	1505.2	1503.8	1494.2	1490.1	1481.8	1484.6	1474.9
7.5°	1553.4	1557.5	1547.9	1546.5	1541.0	1539.6	1527.2	1523.1	1516.2	1513.5	1505.2
10°	1579.5	1579.5	1567.1	1557.5	1550.6	1543.7	1531.3	1525.8	1520.3	1521.7	1516.2
12.5°	1600.1	1590.5	1572.6	1558.9	1549.2	1542.4	1532.7	1528.6	1527.2	1536.9	1538.2
15°	1616.7	1602.9	1580.9	1571.2	1563.0	1561.6	1561.6	1565.7	1575.4	1593.3	1607.0
17.5°	1626.3	1618.0	1607.0	1604.3	1618.0	1626.3	1637.3	1649.7	1663.4	1688.2	1703.3
20°	1644.2	1649.7	1657.9	1668.9	1691.0	1711.6	1725.3	1743.2	1759.7	1790.0	1814.8
22.5°	1691.0	1722.6	1748.7	1770.8	1803.8	1832.7	1850.6	1875.3	1887.7	1908.3	1946.9
25°	1751.5	1816.2	1871.2	1918.0	1968.9	1999.1	2023.9	2055.6	2074.8	2109.2	2143.6
27.5°	1733.6	1825.8	1908.3	1995.0	2065.2	2143.6	2198.6	2250.9	2284.0	2334.9	2380.3
30°	1678.6	1788.6	1900.1	2014.3	2125.7	2238.5	2343.1	2438.1	2511.0	2583.9	2658.2
32.5°	1604.3	1730.9	1867.1	2007.4	2153.2	2310.1	2454.6	2597.7	2718.7	2824.7	2927.9
35°	1519.0	1662.1	1803.8	1977.1	2157.4	2356.9	2557.8	2755.9	2940.2	3127.4	3253.9
37.5°	1417.2	1563.0	1721.2	1920.7	2132.6	2378.9	2634.8	2893.5	3154.9	3406.7	3625.4
40°	1308.5	1457.1	1623.5	1839.5	2078.9	2365.1	2684.3	3032.4	3391.5	3756.1	4046.4
42.5°	1212.1	1364.9	1546.5	1765.2	2025.3	2347.2	2724.2	3152.1	3591.0	4042.3	4468.8
45°	1118.6	1286.4	1477.7	1713.0	2001.9	2361.0	2783.4	3263.6	3769.9	4317.5	4837.6
47.5°	1034.7	1205.3	1391.0	1648.3	1967.5	2367.9	2841.2	3375.0	3939.1	4532.1	5149.9
50°	959.0	1124.1	1307.1	1565.7	1913.8	2363.8	2893.5	3475.5	4085.0	4701.4	5390.7
52.5°	884.7	1052.5	1239.7	1485.9	1847.8	2340.4	2918.2	3558.0	4219.8	4872.0	5584.7
55°	811.8	976.9	1165.4	1410.3	1761.1	2279.8	2915.5	3611.7	4327.1	5033.0	5771.8
57.5°	726.5	883.3	1067.7	1326.3	1668.9	2186.3	2874.2	3636.4	4419.3	5192.6	5996.1
60°	620.5	767.7	945.2	1203.9	1547.9	2066.6	2787.5	3622.7	4473.0	5310.9	6187.3
62.5°	489.8	617.8	780.1	1033.3	1396.5	1894.6	2625.2	3497.5	4387.7	5294.4	6276.7
63°	462.3	583.4	741.6	992.0	1331.8	1847.8	2577.0	3447.9	4346.4	5260.0	6264.4
65°	371.5	449.9	576.5	800.8	1114.5	1618.0	2337.6	3193.4	4124.9	5017.8	6085.5
67.5°	284.8	324.7	392.1	549.0	788.4	1272.7	1893.2	2706.3	3580.0	4419.3	5509.0
70°	243.5	261.4	290.3	364.6	500.8	803.5	1329.1	2018.4	2775.1	3503.0	4482.6
72.5°	221.5	229.8	244.9	276.6	344.0	481.6	847.5	1314.0	1887.7	2497.2	3253.9
75°	203.6	210.5	222.9	239.4	264.2	320.6	482.9	803.5	1227.3	1640.0	2195.9
77.5°	185.7	189.9	203.6	218.8	235.3	264.2	319.2	462.3	705.8	967.2	1323.6
80°	170.6	167.9	177.5	202.3	218.8	235.3	251.8	299.9	401.8	529.7	715.5
82.5°	136.2	139.0	147.2	172.0	178.9	174.7	177.5	185.7	224.3	244.9	366.0
85°	92.2	85.3	83.9	86.7	86.7	82.6	82.6	81.2	89.4	101.8	174.7
87.5°	24.8	12.4	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: P153385
 CATALOG NUMBER: VWM-F05-LED-E1-SLR

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	0°
2.5°	1439.2	1437.8	1439.2	1432.3	1432.3	1430.9	1429.5	1426.8	1426.8	1421.3	1425.4	2.5°
5°	1466.7	1463.9	1458.4	1450.2	1446.0	1440.5	1440.5	1435.0	1430.9	1425.4	1426.8	5°
7.5°	1498.3	1499.7	1490.1	1483.2	1480.4	1474.9	1476.3	1468.1	1469.4	1465.3	1462.6	7.5°
10°	1516.2	1516.2	1519.0	1517.6	1520.3	1520.3	1524.5	1519.0	1516.2	1512.1	1512.1	10°
12.5°	1545.1	1550.6	1561.6	1561.6	1569.9	1572.6	1574.0	1576.8	1571.2	1568.5	1558.9	12.5°
15°	1616.7	1630.4	1640.0	1653.8	1670.3	1675.8	1675.8	1670.3	1667.6	1663.4	1645.5	15°
17.5°	1735.0	1765.2	1773.5	1795.5	1798.3	1805.1	1824.4	1813.4	1806.5	1777.6	1772.1	17.5°
20°	1856.1	1894.6	1933.1	1960.6	1974.4	2001.9	2006.0	2000.5	1973.0	1945.5	1933.1	20°
22.5°	2001.9	2059.7	2103.7	2146.4	2167.0	2180.8	2211.0	2204.2	2182.1	2140.9	2124.4	22.5°
25°	2208.3	2279.8	2326.6	2378.9	2406.4	2420.2	2450.4	2450.4	2427.0	2414.7	2413.3	25°
27.5°	2468.3	2556.4	2633.4	2651.3	2722.9	2739.4	2768.3	2768.3	2746.2	2731.1	2804.0	27.5°
30°	2757.3	2849.4	2982.9	3072.3	3159.0	3244.3	3242.9	3248.4	3274.6	3288.3	3320.0	30°
32.5°	3046.2	3160.4	3302.1	3496.1	3681.8	3840.1	4045.1	4175.8	4135.9	4024.4	3980.4	32.5°
35°	3397.0	3523.6	3695.6	3891.0	4230.8	4435.8	4534.9	4605.1	4613.3	4628.4	4660.1	35°
37.5°	3787.8	3999.7	4199.2	4420.7	4609.2	4858.2	5088.0	5272.4	5315.0	5401.7	5352.2	37.5°
40°	4281.7	4518.4	4727.5	5013.7	5266.8	5566.8	5895.6	6148.8	6250.6	6217.6	5969.9	40°
42.5°	4799.1	5092.1	5337.0	5674.1	6002.9	6399.2	6739.0	7092.6	7155.9	6901.4	6531.3	42.5°
45°	5275.1	5638.3	5942.4	6293.3	6695.0	7169.7	7623.7	7987.0	7974.6	7538.4	7043.1	45°
47.5°	5703.0	6148.8	6520.3	6977.1	7409.1	7974.6	8496.0	8764.3	8606.1	8090.1	7483.4	47.5°
50°	6056.6	6612.5	7070.6	7532.9	8081.9	8762.9	9265.1	9416.5	9111.0	8549.7	7911.3	50°
52.5°	6341.4	7039.0	7553.6	8086.0	8779.5	9496.3	9928.3	9871.9	9477.0	8900.5	8264.9	52.5°
55°	6582.2	7365.1	7978.7	8607.5	9467.4	10127.8	10415.4	10264.0	9712.3	9127.6	8507.0	55°
57.5°	6831.2	7681.5	8369.4	9098.7	10056.3	10623.1	10782.7	10471.8	9823.7	9214.2	8611.6	57.5°
60°	7080.3	7945.7	8714.8	9527.9	10502.1	11027.6	10983.6	10518.6	9790.7	9150.9	8541.4	60°
62.5°	7248.1	8102.5	8915.7	9792.1	10836.4	11234.0	10964.3	10352.1	9599.5	8901.9	8332.3	62.5°
63°	7252.2	8108.0	8928.1	9810.0	10873.5	11240.9	10927.2	10292.9	9538.9	8851.0	8270.4	63°
65°	7165.6	8004.8	8818.0	9728.8	10841.9	11082.7	10606.6	9943.4	9193.6	8498.8	7948.4	65°
67.5°	6722.5	7578.3	8296.5	9155.1	10275.0	10343.8	9748.1	9212.9	8538.7	7819.1	7244.0	67.5°
70°	5829.6	6540.9	7245.4	7962.2	8901.9	8889.5	8329.5	8057.1	7466.9	6646.9	6185.9	70°
72.5°	4636.7	5275.1	5770.4	6250.6	6869.7	6744.5	6384.1	6459.7	6077.2	5465.0	5191.2	72.5°
75°	3442.4	4144.1	4386.3	4581.7	4843.1	4844.5	4943.5	5158.2	5152.7	4812.8	4467.5	75°
77.5°	2257.8	3025.5	3106.7	3263.6	3577.3	4003.8	4444.1	4917.4	5035.7	4767.4	4257.0	77.5°
80°	1258.9	2056.9	1963.4	2098.2	2436.7	3015.9	3665.3	4188.2	4496.4	4346.4	3805.7	80°
82.5°	643.9	1186.0	1133.7	1320.8	1594.6	2098.2	2527.5	2929.2	3292.5	3271.8	3066.8	82.5°
85°	334.3	649.4	738.8	836.5	974.1	1154.4	1316.7	1433.7	1585.0	1851.9	1942.7	85°
87.5°	0.0	0.0	0.0	0.0	0.0	1.4	0.0	99.1	71.5	196.8	280.7	87.5°
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	90°



IUMBER: P153385

NUMBER: VWM-F05-LED-E1-SLR

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1443.3	1443.3	1443.3	1443.3	1443.3	1443.3	1443.3
1426.8	1428.2	1425.4	1425.4	1426.8	1426.8	1424.0
1424.0	1424.0	1421.3	1418.5	1415.8	1415.8	1413.0
1455.7	1455.7	1446.0	1441.9	1435.0	1429.5	1426.8
1502.5	1494.2	1483.2	1474.9	1463.9	1451.5	1444.7
1549.2	1536.9	1523.1	1510.7	1497.0	1483.2	1476.3
1626.3	1609.8	1591.9	1576.8	1557.5	1536.9	1528.6
1744.6	1718.5	1695.1	1673.1	1638.7	1623.5	1607.0
1901.5	1862.9	1832.7	1795.5	1752.9	1739.1	1718.5
2091.3	2058.3	1997.8	1970.3	1927.6	1907.0	1911.1
2380.3	2337.6	2267.4	2241.3	2237.2	2191.8	2169.8
2757.3	2760.0	2695.3	2625.2	2586.6	2515.1	2424.3
3293.8	3256.7	3181.0	3109.5	3018.7	2883.8	2732.5
3943.3	3860.7	3735.5	3602.0	3441.1	3233.3	3021.4
4577.5	4433.1	4233.6	4010.7	3778.2	3519.5	3219.5
5134.8	4910.5	4611.9	4356.0	4027.2	3703.9	3337.9
5643.8	5365.9	4980.7	4649.1	4261.1	3845.6	3412.2
6136.4	5784.2	5312.3	4863.7	4424.8	3940.5	3447.9
6605.6	6151.5	5591.6	5057.7	4544.5	4002.4	3453.4
6966.1	6470.7	5842.0	5198.1	4627.1	4049.2	3453.4
7300.4	6740.4	6033.2	5308.1	4704.1	4080.8	3456.2
7560.4	6930.3	6157.0	5386.6	4764.7	4104.2	3468.6
7748.9	7054.1	6239.6	5434.7	4808.7	4137.3	3496.1
7881.0	7135.3	6285.0	5477.4	4862.3	4195.0	3573.1
7944.3	7285.3	6360.7	5562.7	4954.5	4317.5	3727.2
7896.1	7517.8	6576.7	5707.1	5082.5	4508.7	3973.5
7875.5	7560.4	6635.8	5738.8	5111.4	4550.0	4058.8
7714.5	7603.1	6879.4	5898.4	5249.0	4733.0	4296.9
7215.1	7435.2	7084.4	6168.0	5544.8	5177.4	4741.3
6568.4	7186.2	7047.2	6202.4	5733.3	5542.0	5021.9
5793.8	6433.6	6304.3	5744.3	5525.5	5546.2	4949.0
4559.6	5039.8	4954.5	4757.8	4801.8	4953.1	4239.1
3652.9	3588.3	3391.5	3405.3	3659.8	3837.3	3051.7
2984.3	2416.0	2160.1	2167.0	2611.4	2795.8	1944.1
2839.8	2285.3	1861.6	1626.3	1900.1	1829.9	1015.4
2022.5	2026.7	1681.3	1366.2	1323.6	1125.5	632.9
478.8	383.9	273.8	203.6	214.6	141.7	71.5
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)