

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: P153311

Luminaire Tested: **VXS-E04-LED-E1-SLR-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P153311
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: VXS-E04-LED-E1-SLR-7050
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11420.4 lumens
Efficiency: N/A
Efficacy: 117.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U0 - G3

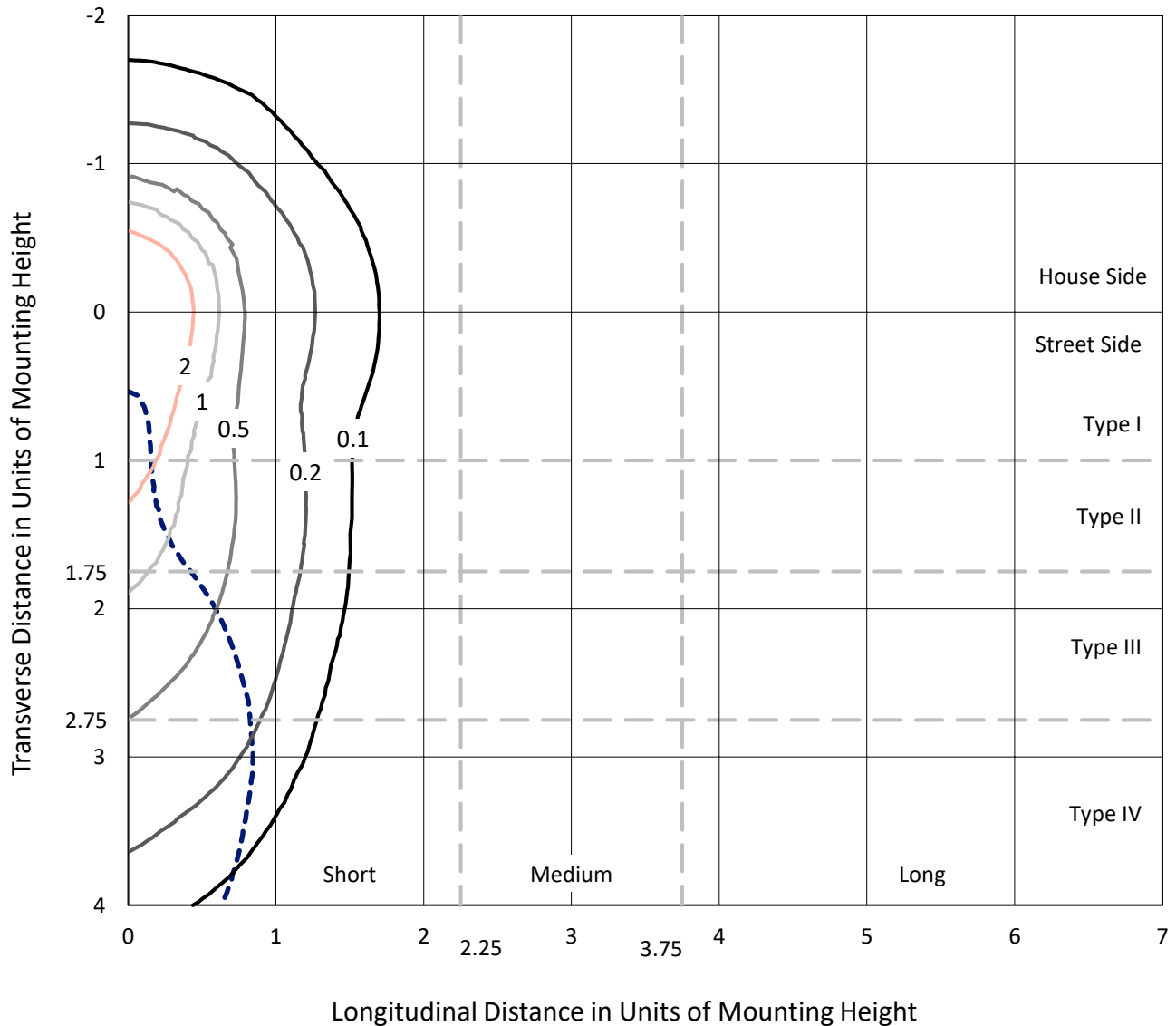
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

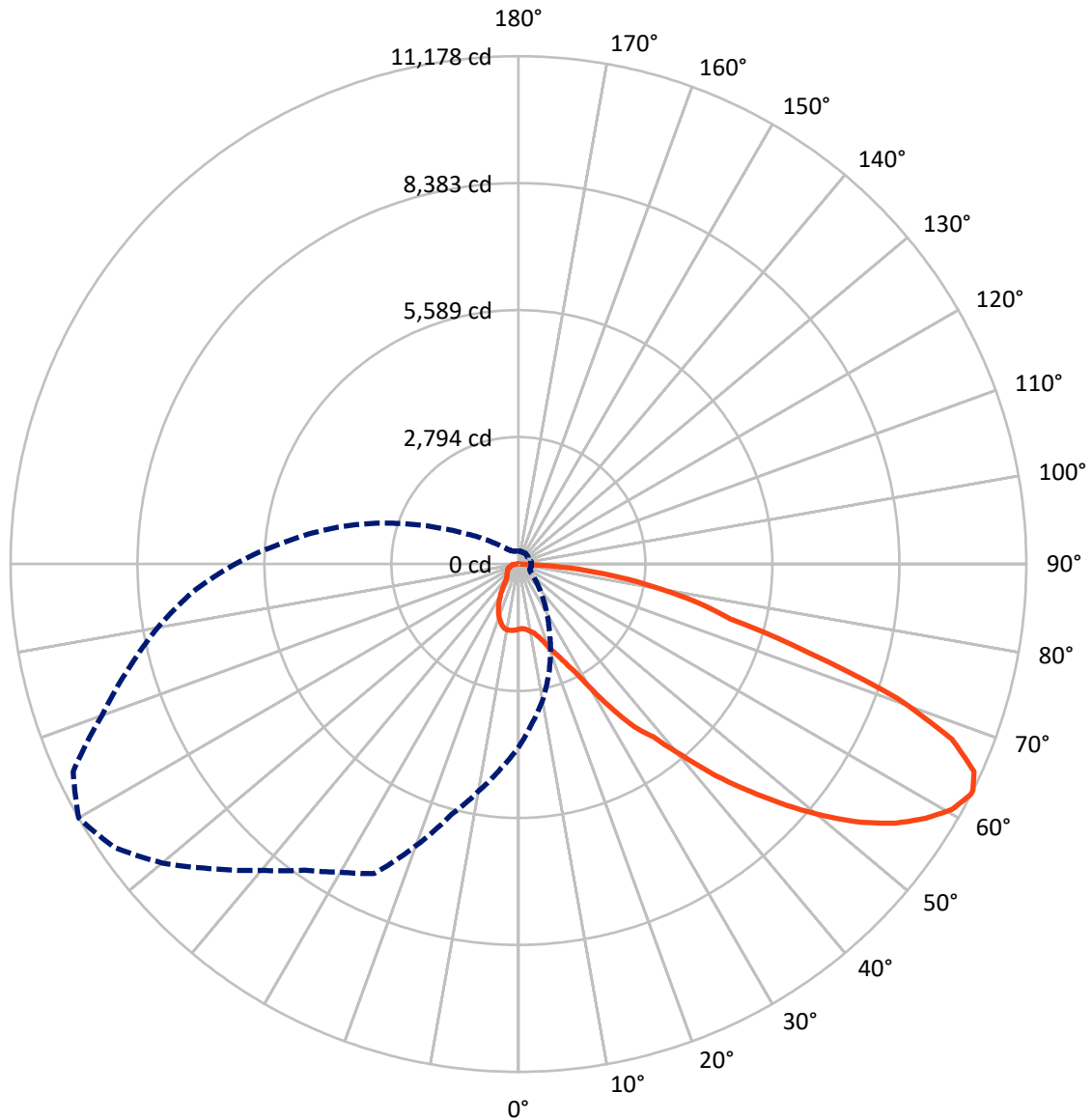
× Max cd
 - - - 1/2 Max cd



Based on 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	2476.5	0.0	2476.5
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	8943.9	0.0	8943.9
	% Fixture	78.3	0.0	78.3
Total	Lumens	11420.4	0.0	11420.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	139.7	1.2
10°-20°	435.1	3.8
20°-30°	773.0	6.8
30°-40°	1217.3	10.7
40°-50°	1791.4	15.7
50°-60°	2379.5	20.8
60°-70°	2621.1	23.0
70°-80°	1644.4	14.4
80°-90°	418.8	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°	11420.4	100.0
0°-180°	11420.4	100.0



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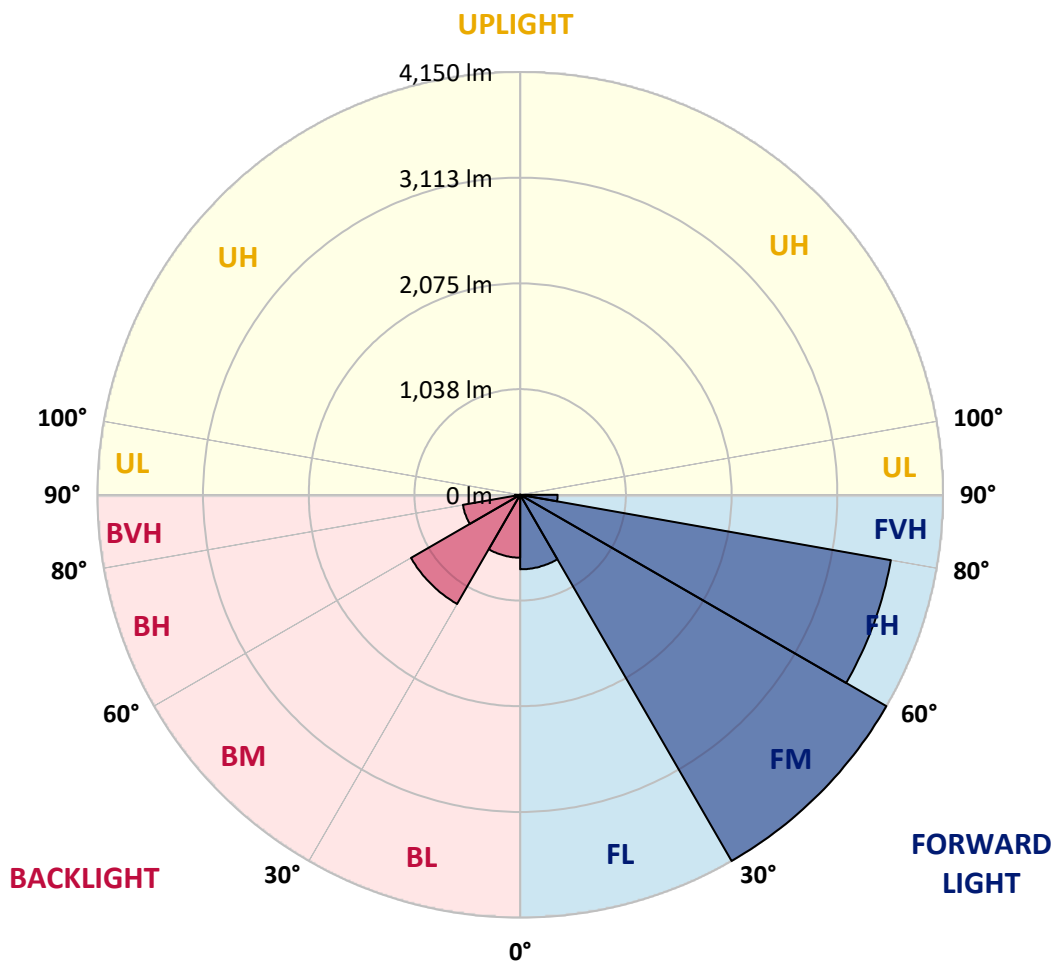
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.3	6.4			
FM	(30°-60°)	4150.4	36.3			
FH	(60°-80°)	3694.7	32.4			G2/5000
FVH	(80°-90°)	367.5	3.2			G3/500
BL	(0°-30°)	616.5	5.4	B2/1000		
BM	(30°-60°)	1237.8	10.8	B2/2500		
BH	(60°-80°)	570.8	5.0	B2/1000		G2/1000
BVH	(80°-90°)	51.3	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°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1416.1	1420.1	1418.8	1418.8	1421.5	1420.1	1420.1	1421.5	1421.5	1425.6	1431.1
5°	1405.1	1403.7	1400.9	1403.7	1403.7	1403.7	1398.2	1402.4	1403.7	1406.4	1406.4
7.5°	1418.8	1414.6	1409.2	1410.6	1410.6	1407.8	1403.7	1405.1	1403.7	1403.7	1402.4
10°	1436.6	1426.9	1420.1	1420.1	1420.1	1417.4	1410.6	1414.6	1414.6	1413.3	1414.6
12.5°	1468.0	1457.1	1448.9	1446.1	1446.1	1442.0	1436.6	1442.0	1439.3	1439.3	1436.6
15°	1520.0	1507.7	1498.1	1489.9	1491.3	1491.3	1484.5	1480.3	1474.8	1468.0	1454.3
17.5°	1598.0	1584.4	1572.0	1565.2	1566.5	1557.0	1537.8	1518.7	1492.6	1466.6	1437.9
20°	1708.8	1704.7	1688.3	1681.5	1665.1	1641.8	1588.4	1543.2	1492.6	1443.4	1394.1
22.5°	1900.3	1881.2	1864.8	1838.8	1784.0	1719.8	1630.8	1551.5	1472.1	1402.4	1336.7
25°	2157.5	2123.3	2042.6	1963.3	1851.1	1736.2	1615.8	1513.2	1414.6	1323.0	1242.3
27.5°	2410.7	2306.7	2163.0	2019.4	1855.2	1704.7	1554.2	1432.4	1317.5	1217.6	1128.7
30°	2717.1	2542.0	2321.8	2094.6	1862.1	1659.6	1479.0	1336.7	1203.9	1098.7	1005.6
32.5°	3004.5	2751.3	2462.7	2164.4	1877.1	1617.1	1392.7	1231.3	1094.5	961.8	870.2
35°	3201.5	2873.1	2522.9	2171.2	1840.1	1536.4	1284.7	1094.5	957.7	834.6	726.5
37.5°	3319.1	2926.4	2525.6	2122.0	1754.0	1426.9	1147.9	959.1	833.2	715.5	630.7
40°	3393.0	2938.8	2490.1	2050.9	1644.5	1288.8	1011.1	841.5	726.5	632.1	566.4
42.5°	3428.6	2919.6	2432.5	1960.5	1533.7	1165.7	915.3	755.2	655.3	588.3	539.1
45°	3434.0	2885.4	2371.0	1878.4	1435.1	1076.7	849.6	719.7	637.5	581.5	532.2
47.5°	3434.0	2855.3	2321.8	1818.2	1370.9	1038.4	844.1	734.7	654.0	591.1	532.2
50°	3436.8	2845.7	2301.2	1788.2	1349.0	1059.0	890.7	781.2	689.5	607.5	530.9
52.5°	3449.1	2858.0	2317.6	1811.4	1388.7	1141.0	978.2	851.0	736.1	626.6	530.9
55°	3476.5	2899.1	2387.4	1892.1	1495.3	1265.5	1083.5	926.2	773.0	634.8	522.6
57.5°	3553.1	3003.1	2514.6	2048.1	1677.3	1409.2	1179.4	979.6	786.6	628.0	506.2
60°	3706.3	3209.6	2732.2	2267.0	1870.3	1532.3	1235.4	987.8	774.4	606.1	480.2
62.5°	3951.2	3446.3	2996.3	2505.1	2041.2	1600.7	1242.3	967.3	741.6	566.4	441.9
63°	4036.1	3505.2	3052.3	2550.3	2063.1	1606.2	1236.8	959.1	733.4	555.4	436.5
65°	4272.7	3752.8	3246.6	2708.9	2124.8	1607.6	1206.7	918.0	695.0	513.1	398.1
67.5°	4714.6	4078.4	3491.5	2833.4	2146.6	1563.8	1130.1	841.5	614.3	447.4	350.3
70°	4993.7	4260.4	3585.9	2836.2	2082.3	1439.3	997.4	716.9	511.7	370.8	301.0
72.5°	4921.2	4081.1	3336.9	2580.3	1804.6	1202.6	801.8	563.6	399.5	296.9	250.4
75°	4215.2	3397.1	2722.6	1998.9	1364.0	883.8	586.9	402.3	295.5	232.5	209.3
77.5°	3034.5	2444.9	1952.3	1424.2	919.4	571.9	389.9	287.4	224.4	191.5	172.4
80°	1933.2	1433.8	1194.4	856.5	537.7	354.3	268.2	217.5	184.7	160.1	147.8
82.5°	1009.6	707.4	574.6	437.8	298.2	234.0	197.0	177.8	151.8	132.7	125.9
85°	629.3	417.3	309.2	216.2	149.1	134.1	123.1	120.4	108.1	95.8	91.7
87.5°	71.2	64.4	67.0	42.4	31.5	34.2	32.8	43.7	42.4	31.5	32.8
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1425.6	1428.3	1428.3	1432.4	1432.4	1435.1	1437.9	1437.9	1440.6	1442.0	1444.8
5°	1409.2	1409.2	1409.2	1414.6	1416.1	1424.2	1426.9	1429.7	1432.4	1442.0	1447.5
7.5°	1405.1	1399.6	1402.4	1402.4	1406.4	1413.3	1420.1	1424.2	1428.3	1440.6	1448.9
10°	1413.3	1409.2	1405.1	1405.1	1406.4	1409.2	1414.6	1418.8	1421.5	1433.8	1440.6
12.5°	1435.1	1425.6	1417.4	1410.6	1405.1	1403.7	1400.9	1402.4	1405.1	1411.9	1421.5
15°	1439.3	1421.5	1403.7	1385.9	1372.2	1364.0	1357.2	1354.5	1354.5	1358.5	1369.5
17.5°	1411.9	1381.9	1355.9	1332.5	1317.5	1302.5	1295.6	1290.2	1287.5	1292.8	1294.3
20°	1353.1	1317.5	1282.0	1254.6	1227.3	1223.1	1212.1	1214.9	1217.6	1225.8	1229.9
22.5°	1272.3	1229.9	1186.2	1157.4	1135.5	1116.4	1104.0	1109.5	1113.7	1121.9	1126.0
25°	1173.9	1112.3	1065.8	1037.1	1013.8	997.4	983.7	989.1	983.7	993.3	1008.3
27.5°	1057.6	985.1	935.9	903.0	886.5	872.8	859.2	859.2	872.8	872.8	885.2
30°	916.7	863.3	799.0	764.8	744.2	736.1	734.7	731.9	741.6	747.0	760.7
32.5°	783.9	718.2	656.7	623.8	606.1	596.5	597.9	599.3	603.3	611.6	633.5
35°	649.8	592.4	548.6	511.7	493.9	476.1	476.1	473.4	477.5	487.0	513.1
37.5°	563.6	513.1	478.9	450.2	432.3	421.3	411.8	407.7	407.7	411.8	421.3
40°	515.8	478.9	447.4	422.8	406.3	396.8	391.3	387.2	384.5	384.5	385.8
42.5°	493.9	455.5	424.1	402.3	389.9	384.5	383.1	381.8	377.6	376.3	374.9
45°	483.0	439.2	403.6	385.8	376.3	373.5	374.9	374.9	373.5	370.8	365.3
47.5°	474.7	424.1	388.6	372.1	368.0	368.0	368.0	368.0	366.6	365.3	361.1
50°	461.0	400.8	362.6	350.3	347.5	347.5	348.9	348.9	351.6	348.9	346.1
52.5°	446.0	379.0	340.6	329.7	328.4	326.9	326.9	326.9	328.4	328.4	326.9
55°	429.6	362.6	329.7	321.6	322.9	321.6	320.1	318.8	318.8	317.4	314.7
57.5°	413.2	348.9	321.6	316.1	317.4	317.4	314.7	311.9	310.6	306.4	303.7
60°	388.6	329.7	305.1	302.4	306.4	306.4	306.4	305.1	305.1	303.7	296.9
62.5°	355.8	302.4	283.2	284.6	285.9	288.7	288.7	288.7	288.7	285.9	279.1
63°	348.9	296.9	279.1	279.1	283.2	283.2	284.6	283.2	284.6	281.9	273.7
65°	321.6	279.1	265.4	266.7	269.5	269.5	269.5	268.2	268.2	264.0	259.9
67.5°	290.1	257.2	249.0	250.4	251.7	254.5	253.1	253.1	254.5	251.7	247.7
70°	254.5	234.0	228.5	229.8	231.2	231.2	229.8	229.8	231.2	228.5	224.4
72.5°	227.2	218.9	214.8	214.8	212.0	212.0	209.3	208.0	206.6	206.6	202.5
75°	191.5	190.2	191.5	194.3	191.5	188.8	187.5	183.3	180.6	180.6	179.3
77.5°	164.1	164.1	166.9	171.0	172.4	172.4	168.3	161.5	160.1	160.1	160.1
80°	142.3	139.6	139.6	143.6	147.8	146.4	139.6	132.7	132.7	139.6	140.9
82.5°	124.5	124.5	120.4	121.8	120.4	119.1	112.2	108.1	106.7	112.2	117.6
85°	98.5	99.9	98.5	97.1	95.8	91.7	86.2	82.1	80.7	86.2	94.4
87.5°	39.7	38.3	36.9	38.3	36.9	39.7	38.3	35.5	34.2	38.3	46.5
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1446.1	1448.9	1451.6	1451.6	1454.3	1453.0	1454.3	1455.8	1455.8	1457.1	1457.1
5°	1454.3	1458.4	1463.9	1469.4	1470.8	1474.8	1479.0	1476.3	1480.3	1485.8	1485.8
7.5°	1457.1	1466.6	1470.8	1479.0	1480.3	1485.8	1495.3	1488.5	1496.8	1500.8	1502.2
10°	1453.0	1462.6	1469.4	1479.0	1483.1	1492.6	1502.2	1499.5	1509.0	1515.9	1517.3
12.5°	1428.3	1437.9	1453.0	1466.6	1477.6	1492.6	1510.5	1505.0	1518.7	1526.8	1531.0
15°	1380.4	1390.1	1406.4	1428.3	1448.9	1472.1	1495.3	1499.5	1513.2	1522.7	1526.8
17.5°	1305.2	1317.5	1335.3	1358.5	1384.6	1424.2	1454.3	1469.4	1488.5	1494.0	1500.8
20°	1235.4	1247.8	1258.7	1272.3	1291.5	1329.8	1369.5	1399.6	1424.2	1444.8	1450.3
22.5°	1142.4	1153.4	1167.0	1177.9	1191.6	1219.0	1251.8	1286.0	1324.4	1336.7	1350.4
25°	1030.3	1037.1	1056.2	1063.0	1072.6	1095.9	1121.9	1146.5	1183.4	1209.4	1216.3
27.5°	909.8	916.7	934.4	938.5	950.9	972.7	991.9	1001.5	1035.6	1063.0	1085.0
30°	770.3	788.1	809.9	812.6	826.3	840.0	857.8	867.4	898.9	927.6	954.9
32.5°	649.8	667.7	685.4	696.4	703.2	714.2	731.9	741.6	771.6	797.6	825.0
35°	526.7	548.6	567.8	582.8	588.3	602.0	615.6	625.3	656.7	680.0	699.2
37.5°	433.7	450.2	470.7	485.7	500.7	510.4	526.7	540.4	559.6	571.9	592.4
40°	388.6	396.8	407.7	420.0	432.3	443.3	455.5	466.5	478.9	495.2	508.9
42.5°	373.5	374.9	374.9	379.0	385.8	391.3	402.3	410.5	418.7	431.0	437.8
45°	362.6	361.1	358.4	355.8	357.1	359.8	366.6	372.1	381.8	387.2	388.6
47.5°	357.1	351.6	346.1	342.1	340.6	342.1	347.5	353.0	358.4	362.6	363.9
50°	339.3	335.2	326.9	321.6	318.8	321.6	328.4	331.1	336.6	340.6	342.1
52.5°	321.6	316.1	310.6	305.1	305.1	306.4	311.9	317.4	322.9	324.2	326.9
55°	310.6	302.4	296.9	292.7	290.1	294.2	298.2	305.1	311.9	313.3	316.1
57.5°	299.6	291.4	285.9	281.9	279.1	283.2	287.4	296.9	305.1	305.1	305.1
60°	292.7	285.9	277.7	273.7	269.5	273.7	279.1	288.7	296.9	295.5	294.2
62.5°	273.7	266.7	262.7	262.7	258.5	265.4	270.9	281.9	283.2	280.5	277.7
63°	268.2	262.7	259.9	259.9	257.2	264.0	269.5	279.1	279.1	276.4	273.7
65°	254.5	250.4	247.7	250.4	250.4	257.2	258.5	265.4	264.0	259.9	258.5
67.5°	243.5	240.8	238.0	238.0	238.0	239.4	240.8	243.5	242.2	240.8	242.2
70°	225.7	224.4	221.7	221.7	220.3	220.3	220.3	221.7	221.7	223.0	224.4
72.5°	203.8	201.1	201.1	202.5	199.8	201.1	202.5	201.1	203.8	203.8	205.2
75°	179.3	177.8	180.6	183.3	182.0	182.0	183.3	183.3	184.7	184.7	186.1
77.5°	160.1	161.5	162.8	165.6	166.9	166.9	166.9	165.6	166.9	166.9	168.3
80°	142.3	145.0	147.8	150.5	151.8	151.8	151.8	150.5	150.5	150.5	150.5
82.5°	128.6	132.7	135.4	136.8	136.8	136.8	136.8	136.8	136.8	134.1	131.3
85°	108.1	116.3	116.3	117.6	113.6	110.8	108.1	109.4	110.8	105.4	103.9
87.5°	54.7	54.7	57.5	60.2	61.6	61.6	69.7	65.7	64.4	62.9	60.2
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: VXS-E04-LED-E1-SLR-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1458.4	1457.1	1459.8	1457.1	1458.4	1459.8	1457.1	1461.1	1463.9	1459.8	1455.8
5°	1488.5	1488.5	1495.3	1498.1	1499.5	1507.7	1503.6	1506.3	1509.0	1507.7	1509.0
7.5°	1507.7	1513.2	1520.0	1526.8	1528.2	1535.0	1533.7	1537.8	1540.5	1547.4	1547.4
10°	1524.1	1531.0	1540.5	1547.4	1554.2	1559.7	1562.4	1570.7	1572.0	1577.5	1577.5
12.5°	1539.2	1547.4	1557.0	1567.9	1574.7	1585.7	1587.0	1599.4	1603.4	1604.9	1600.7
15°	1536.4	1546.0	1557.0	1569.2	1581.6	1595.2	1603.4	1615.8	1622.6	1625.4	1618.5
17.5°	1510.5	1518.7	1532.3	1548.7	1563.8	1581.6	1596.6	1614.4	1625.4	1628.1	1626.7
20°	1459.8	1465.3	1483.1	1505.0	1522.7	1550.1	1572.0	1599.4	1617.1	1630.8	1634.9
22.5°	1359.9	1373.6	1391.4	1416.1	1442.0	1476.3	1507.7	1547.4	1585.7	1618.5	1651.3
25°	1239.6	1264.1	1291.5	1324.4	1355.9	1391.4	1426.9	1472.1	1528.2	1596.6	1674.6
27.5°	1117.7	1160.2	1194.4	1236.8	1273.8	1309.3	1349.0	1398.2	1459.8	1541.9	1641.8
30°	994.6	1042.5	1079.5	1128.7	1177.9	1225.8	1265.5	1317.5	1377.7	1461.1	1570.7
32.5°	863.3	911.2	954.9	1000.1	1054.8	1112.3	1160.2	1224.5	1288.8	1375.0	1485.8
35°	727.9	770.3	807.3	855.1	915.3	976.9	1039.8	1113.7	1183.4	1273.8	1391.4
37.5°	610.2	640.3	675.9	718.2	764.8	830.5	901.6	989.1	1068.5	1167.0	1287.5
40°	513.1	529.4	549.9	585.6	628.0	692.2	762.1	855.1	950.9	1059.0	1175.2
42.5°	437.8	446.0	451.5	474.7	508.9	571.9	639.0	729.2	834.6	952.2	1069.8
45°	388.6	392.6	394.0	406.3	431.0	485.7	555.4	632.1	733.4	848.3	971.4
47.5°	365.3	369.4	372.1	374.9	389.9	432.3	495.2	567.8	660.8	766.1	892.0
50°	346.1	350.3	354.3	353.0	359.8	387.2	440.5	507.6	595.1	692.2	816.8
52.5°	326.9	329.7	329.7	329.7	333.8	351.6	389.9	451.5	532.2	623.8	747.0
55°	316.1	318.8	320.1	321.6	322.9	332.4	361.1	410.5	480.2	565.1	675.9
57.5°	305.1	306.4	309.2	310.6	313.3	318.8	336.6	372.1	431.0	502.1	595.1
60°	295.5	298.2	303.7	305.1	307.9	309.2	317.4	339.3	377.6	432.3	507.6
62.5°	280.5	284.6	290.1	291.4	294.2	295.5	296.9	309.2	326.9	359.8	416.0
63°	276.4	280.5	287.4	288.7	290.1	290.1	291.4	299.6	316.1	344.8	385.8
65°	261.3	266.7	270.9	272.2	273.7	273.7	272.2	275.0	276.4	288.7	313.3
67.5°	244.9	249.0	251.7	253.1	251.7	253.1	251.7	249.0	246.2	249.0	259.9
70°	228.5	231.2	231.2	232.5	234.0	235.3	232.5	229.8	227.2	225.7	232.5
72.5°	209.3	212.0	212.0	213.5	213.5	216.2	216.2	214.8	214.8	216.2	217.5
75°	190.2	193.0	191.5	194.3	194.3	198.3	198.3	199.8	202.5	201.1	199.8
77.5°	172.4	173.8	173.8	175.1	176.5	183.3	187.5	188.8	188.8	186.1	183.3
80°	153.3	153.3	150.5	149.1	150.5	157.3	165.6	166.9	171.0	169.6	171.0
82.5°	128.6	123.1	119.1	119.1	121.8	125.9	128.6	131.3	134.1	134.1	136.8
85°	98.5	93.1	88.9	90.3	94.4	95.8	94.4	94.4	99.9	103.9	99.9
87.5°	58.9	53.4	50.6	46.5	47.9	52.0	50.6	46.5	47.9	38.3	35.5
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):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
2.5°	1458.4	1457.1	1454.3	1450.3	1448.9	1446.1	1447.5	1443.4	1440.6	1437.9	1433.8
5°	1509.0	1509.0	1500.8	1500.8	1496.8	1495.3	1485.8	1481.7	1473.5	1476.3	1466.6
7.5°	1544.7	1548.7	1539.2	1537.8	1532.3	1531.0	1518.7	1514.5	1507.7	1505.0	1496.8
10°	1570.7	1570.7	1558.3	1548.7	1541.9	1535.0	1522.7	1517.3	1511.8	1513.2	1507.7
12.5°	1591.2	1581.6	1563.8	1550.1	1540.5	1533.7	1524.1	1520.0	1518.7	1528.2	1529.5
15°	1607.6	1593.9	1572.0	1562.4	1554.2	1552.8	1552.8	1557.0	1566.5	1584.4	1598.0
17.5°	1617.1	1608.9	1598.0	1595.2	1608.9	1617.1	1628.1	1640.4	1654.1	1678.8	1693.8
20°	1634.9	1640.4	1648.6	1659.6	1681.5	1702.0	1715.6	1733.5	1749.8	1780.0	1804.6
22.5°	1681.5	1713.0	1738.9	1760.8	1793.7	1822.4	1840.1	1864.8	1877.1	1897.6	1936.0
25°	1741.7	1805.9	1860.6	1907.2	1957.8	1987.9	2012.5	2044.0	2063.1	2097.4	2131.6
27.5°	1723.8	1815.5	1897.6	1983.8	2053.6	2131.6	2186.3	2238.2	2271.1	2321.8	2366.8
30°	1669.1	1778.5	1889.4	2003.0	2113.8	2226.0	2329.9	2424.4	2496.9	2569.3	2643.2
32.5°	1595.2	1721.1	1856.6	1996.2	2141.1	2297.1	2440.7	2583.0	2703.4	2808.8	2911.4
35°	1510.5	1652.7	1793.7	1966.0	2145.3	2343.6	2543.4	2740.4	2923.7	3109.7	3235.6
37.5°	1409.2	1554.2	1711.5	1909.9	2120.6	2365.5	2620.0	2877.2	3137.1	3387.6	3605.1
40°	1301.1	1448.9	1614.4	1829.2	2067.3	2351.8	2669.2	3015.3	3372.4	3735.0	4023.7
42.5°	1205.3	1357.2	1537.8	1755.3	2013.9	2334.1	2708.9	3134.4	3570.9	4019.6	4443.7
45°	1112.3	1279.2	1469.4	1703.3	1990.7	2347.8	2767.8	3245.2	3748.7	4293.3	4810.4
47.5°	1028.8	1198.4	1383.2	1639.1	1956.5	2354.6	2825.2	3356.1	3917.0	4506.6	5120.9
50°	953.6	1117.7	1299.7	1557.0	1903.1	2350.5	2877.2	3456.0	4062.0	4674.9	5360.4
52.5°	879.7	1046.6	1232.7	1477.6	1837.4	2327.3	2901.9	3538.0	4196.1	4844.6	5553.3
55°	807.3	971.4	1158.9	1402.4	1751.2	2267.0	2899.1	3591.4	4302.8	5004.7	5739.4
57.5°	722.4	878.3	1061.7	1318.9	1659.6	2174.0	2858.0	3616.0	4394.5	5163.3	5962.4
60°	617.0	763.4	939.9	1197.1	1539.2	2054.9	2771.8	3602.3	4447.9	5281.0	6152.5
62.5°	487.0	614.3	775.8	1027.5	1388.7	1883.9	2610.4	3477.8	4363.0	5264.6	6241.5
63°	459.7	580.1	737.4	986.4	1324.4	1837.4	2562.5	3428.6	4322.0	5230.4	6229.1
65°	369.4	447.4	573.3	796.3	1108.2	1608.9	2324.5	3175.4	4101.7	4989.6	6051.3
67.5°	283.2	322.9	389.9	545.9	783.9	1265.5	1882.6	2691.1	3559.9	4394.5	5478.0
70°	242.2	259.9	288.7	362.6	498.0	799.0	1321.7	2007.0	2759.6	3483.3	4457.4
72.5°	220.3	228.5	243.5	275.0	342.1	478.9	842.8	1306.5	1877.1	2483.2	3235.6
75°	202.5	209.3	221.7	238.0	262.7	318.8	480.2	799.0	1220.4	1630.8	2183.5
77.5°	184.7	188.8	202.5	217.5	234.0	262.7	317.4	459.7	701.9	961.8	1316.2
80°	169.6	166.9	176.5	201.1	217.5	234.0	250.4	298.2	399.5	526.7	711.4
82.5°	135.4	138.1	146.4	171.0	177.8	173.8	176.5	184.7	223.0	243.5	363.9
85°	91.7	84.9	83.4	86.2	86.2	82.1	82.1	80.7	88.9	101.2	173.8
87.5°	24.7	12.3	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°	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	0°
2.5°	1431.1	1429.7	1431.1	1424.2	1424.2	1422.9	1421.5	1418.8	1418.8	1413.3	1417.4	2.5°
5°	1458.4	1455.8	1450.3	1442.0	1437.9	1432.4	1432.4	1426.9	1422.9	1417.4	1418.8	5°
7.5°	1489.9	1491.3	1481.7	1474.8	1472.1	1466.6	1468.0	1459.8	1461.1	1457.1	1454.3	7.5°
10°	1507.7	1507.7	1510.5	1509.0	1511.8	1511.8	1515.9	1510.5	1507.7	1503.6	1503.6	10°
12.5°	1536.4	1541.9	1552.8	1552.8	1561.0	1563.8	1565.2	1567.9	1562.4	1559.7	1550.1	12.5°
15°	1607.6	1621.2	1630.8	1644.5	1660.9	1666.4	1666.4	1660.9	1658.1	1654.1	1636.3	15°
17.5°	1725.2	1755.3	1763.5	1785.4	1788.2	1795.0	1814.2	1803.2	1796.4	1767.7	1762.2	17.5°
20°	1845.6	1883.9	1922.3	1949.6	1963.3	1990.7	1994.7	1989.3	1961.9	1934.5	1922.3	20°
22.5°	1990.7	2048.1	2091.9	2134.3	2154.8	2168.5	2198.7	2191.7	2169.8	2128.8	2112.4	22.5°
25°	2195.9	2267.0	2313.6	2365.5	2392.8	2406.5	2436.7	2436.7	2413.4	2401.0	2399.7	25°
27.5°	2454.4	2542.0	2618.7	2636.4	2707.6	2723.9	2752.7	2752.7	2730.8	2715.8	2788.3	27.5°
30°	2741.8	2833.4	2966.1	3055.0	3141.2	3226.1	3224.7	3230.2	3256.2	3269.8	3301.3	30°
32.5°	3029.0	3142.6	3283.5	3476.5	3661.1	3818.4	4022.4	4152.3	4112.6	4001.8	3958.0	32.5°
35°	3377.9	3503.8	3674.8	3869.1	4207.0	4410.9	4509.4	4579.2	4587.4	4602.4	4633.9	35°
37.5°	3766.5	3977.2	4175.5	4395.9	4583.3	4830.9	5059.4	5242.7	5285.1	5371.3	5322.1	37.5°
40°	4257.6	4493.0	4700.9	4985.5	5237.2	5535.5	5862.5	6114.2	6215.4	6182.6	5936.4	40°
42.5°	4772.1	5063.5	5307.0	5642.2	5969.2	6363.2	6701.1	7052.7	7115.6	6862.6	6494.6	42.5°
45°	5245.5	5606.6	5909.0	6257.8	6657.4	7129.4	7580.8	7942.1	7929.7	7496.1	7003.5	45°
47.5°	5671.0	6114.2	6483.6	6937.8	7367.5	7929.7	8448.3	8715.0	8557.7	8044.7	7441.3	47.5°
50°	6022.6	6575.2	7030.9	7490.6	8036.5	8713.7	9213.1	9363.5	9059.8	8501.7	7866.8	50°
52.5°	6305.8	6999.4	7511.1	8040.5	8730.2	9442.9	9872.5	9816.4	9423.7	8850.5	8218.4	52.5°
55°	6545.2	7323.6	7933.9	8559.1	9414.2	10070.9	10356.8	10206.3	9657.7	9076.3	8459.2	55°
57.5°	6792.8	7638.3	8322.4	9047.6	9999.7	10563.4	10722.1	10413.0	9768.5	9162.5	8563.2	57.5°
60°	7040.4	7901.0	8665.8	9474.4	10443.0	10965.6	10921.9	10459.5	9735.6	9099.5	8493.4	60°
62.5°	7207.4	8057.0	8865.6	9737.1	10775.4	11170.9	10902.7	10293.9	9545.5	8851.9	8285.5	62.5°
63°	7211.5	8062.5	8877.8	9754.8	10812.4	11177.7	10865.8	10235.0	9485.3	8801.2	8223.9	63°
65°	7125.3	7959.8	8768.4	9674.1	10780.9	11020.4	10547.0	9887.6	9141.9	8451.0	7903.7	65°
67.5°	6684.8	7535.8	8249.8	9103.6	10217.3	10285.7	9693.3	9161.0	8490.7	7775.1	7203.2	67.5°
70°	5796.8	6504.1	7204.7	7917.4	8851.9	8839.6	8282.7	8011.8	7424.9	6609.5	6151.2	70°
72.5°	4610.7	5245.5	5738.0	6215.4	6831.1	6706.6	6348.2	6423.4	6043.1	5434.3	5162.0	72.5°
75°	3423.1	4120.8	4361.7	4556.0	4815.9	4817.2	4915.8	5129.1	5123.7	4785.8	4442.4	75°
77.5°	2245.1	3008.5	3089.2	3245.2	3557.2	3981.2	4419.1	4889.7	5007.4	4740.6	4233.1	77.5°
80°	1251.8	2045.4	1952.3	2086.4	2423.0	2999.0	3644.8	4164.7	4471.1	4322.0	3784.2	80°
82.5°	640.3	1179.4	1127.4	1313.4	1585.7	2086.4	2513.3	2912.7	3274.0	3253.5	3049.5	82.5°
85°	332.4	645.8	734.7	831.8	968.6	1147.9	1309.3	1425.6	1576.1	1841.6	1931.8	85°
87.5°	0.0	0.0	0.0	0.0	0.0	1.3	0.0	98.5	71.2	195.6	279.1	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°
1435.1	1435.1	1435.1	1435.1	1435.1	1435.1	1435.1
1418.8	1420.1	1417.4	1417.4	1418.8	1418.8	1416.1
1416.1	1416.1	1413.3	1410.6	1407.8	1407.8	1405.1
1447.5	1447.5	1437.9	1433.8	1426.9	1421.5	1418.8
1494.0	1485.8	1474.8	1466.6	1455.8	1443.4	1436.6
1540.5	1528.2	1514.5	1502.2	1488.5	1474.8	1468.0
1617.1	1600.7	1582.9	1567.9	1548.7	1528.2	1520.0
1734.8	1708.8	1685.6	1663.6	1629.4	1614.4	1598.0
1890.8	1852.4	1822.4	1785.4	1743.0	1729.3	1708.8
2079.6	2046.7	1986.5	1959.2	1916.8	1896.3	1900.3
2366.8	2324.5	2254.7	2228.7	2224.6	2179.5	2157.5
2741.8	2744.5	2680.2	2610.4	2572.1	2500.9	2410.7
3275.3	3238.3	3163.1	3092.0	3001.7	2867.7	2717.1
3921.1	3839.0	3714.5	3581.8	3421.8	3215.1	3004.5
4551.8	4408.2	4209.7	3988.1	3756.9	3499.7	3201.5
5105.9	4882.9	4586.0	4331.5	4004.6	3683.0	3319.1
5612.1	5335.8	4952.6	4622.9	4237.1	3823.9	3393.0
6101.9	5751.7	5282.4	4836.4	4399.9	3918.3	3428.6
6568.4	6117.0	5560.1	5029.3	4519.0	3979.9	3434.0
6926.9	6434.4	5809.1	5168.8	4601.0	4026.4	3434.0
7259.4	6702.5	5999.3	5278.2	4677.7	4057.9	3436.8
7517.9	6891.3	6122.4	5356.3	4737.8	4081.1	3449.1
7705.4	7014.5	6204.6	5404.1	4781.7	4114.0	3476.5
7836.7	7095.1	6249.6	5446.5	4835.0	4171.5	3553.1
7899.7	7244.4	6324.9	5531.4	4926.6	4293.3	3706.3
7851.7	7475.5	6539.7	5675.0	5053.9	4483.4	3951.2
7831.2	7517.9	6598.5	5706.5	5082.6	4524.5	4036.1
7671.2	7560.3	6840.7	5865.2	5219.5	4706.4	4272.7
7174.5	7393.5	7044.6	6133.4	5513.6	5148.3	4714.6
6531.5	7145.8	7007.6	6167.6	5701.0	5510.9	4993.7
5761.2	6397.4	6268.8	5712.0	5494.4	5515.0	4921.2
4534.0	5011.5	4926.6	4731.0	4774.8	4925.3	4215.2
3632.4	3568.1	3372.4	3386.1	3639.3	3815.8	3034.5
2967.5	2402.5	2148.0	2154.8	2596.7	2780.1	1933.2
2823.8	2272.4	1851.1	1617.1	1889.4	1819.6	1009.6
2011.2	2015.2	1671.9	1358.5	1316.2	1119.2	629.3
476.1	381.8	272.2	202.5	213.5	140.9	71.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)