

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: STREETWORKS

Report Number: P159115

Luminaire Tested: **VST-F05-LED-E-U-SLR**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159115
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33715)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F05-LED-E-U-SLR
Description: VENTUS LED SITE/ROADWAY 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: 11092.1 lumens
Efficiency: N/A
Efficacy: 83.2 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: 28.75 FT

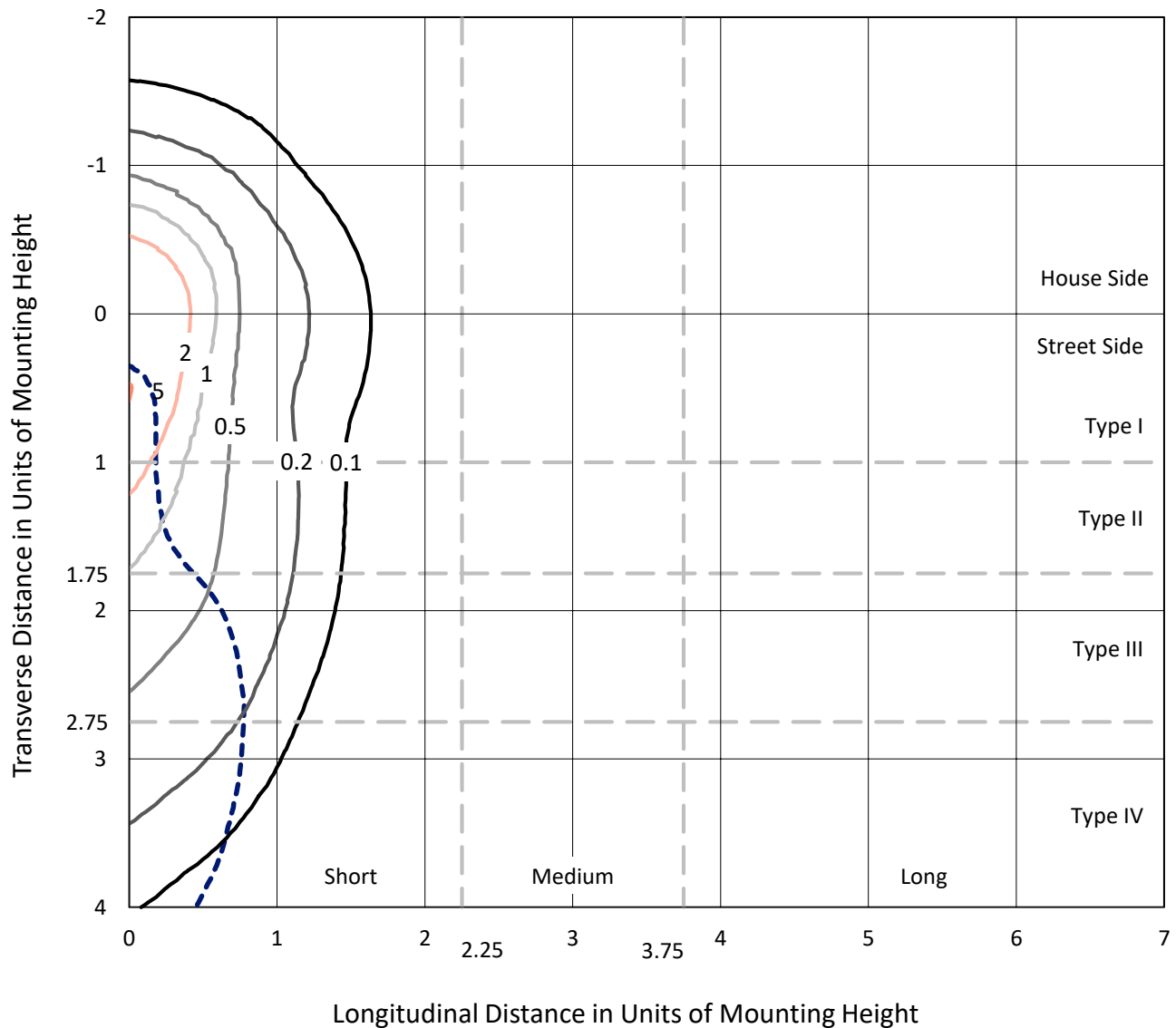


REPORT NUMBER: P159115

CATALOG NUMBER: VST-F05-LED-E-U-SLR

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

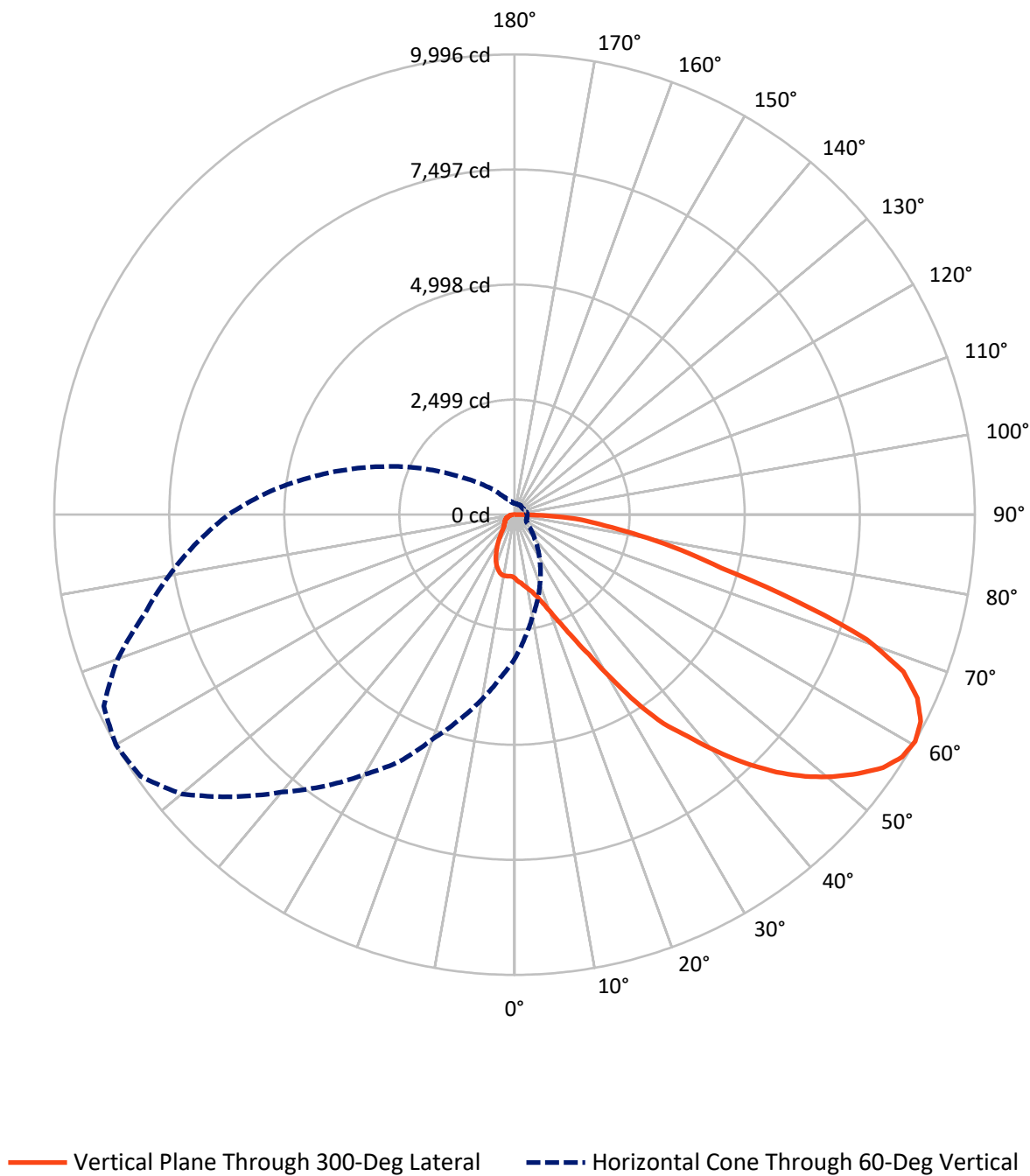


Based on 20 foot mounting height. Maximum calculated value = 5.2 fc
Type IV - Short - Non-Cutoff

REPORT NUMBER: P159115

CATALOG NUMBER: VST-F05-LED-E-U-SLR

Luminous Intensity Polar Plot



REPORT NUMBER: P159115

CATALOG NUMBER: VST-F05-LED-E-U-SLR

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2497.6	0.0	2497.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	8594.5	0.0	8594.5
	% Fixture	77.5	0.0	77.5
Total	Lumens	11092.1	0.0	11092.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	136.1	1.2
10°-20°	439.4	4.0
20°-30°	833.8	7.5
30°-40°	1313.1	11.8
40°-50°	1832.8	16.5
50°-60°	2266.8	20.4
60°-70°	2349.6	21.2
70°-80°	1478.5	13.3
80°-90°	442.0	4.0
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°	11092.1	100.0
0°-180°	11092.1	100.0

Coefficient of Utilization



REPORT NUMBER: P159115

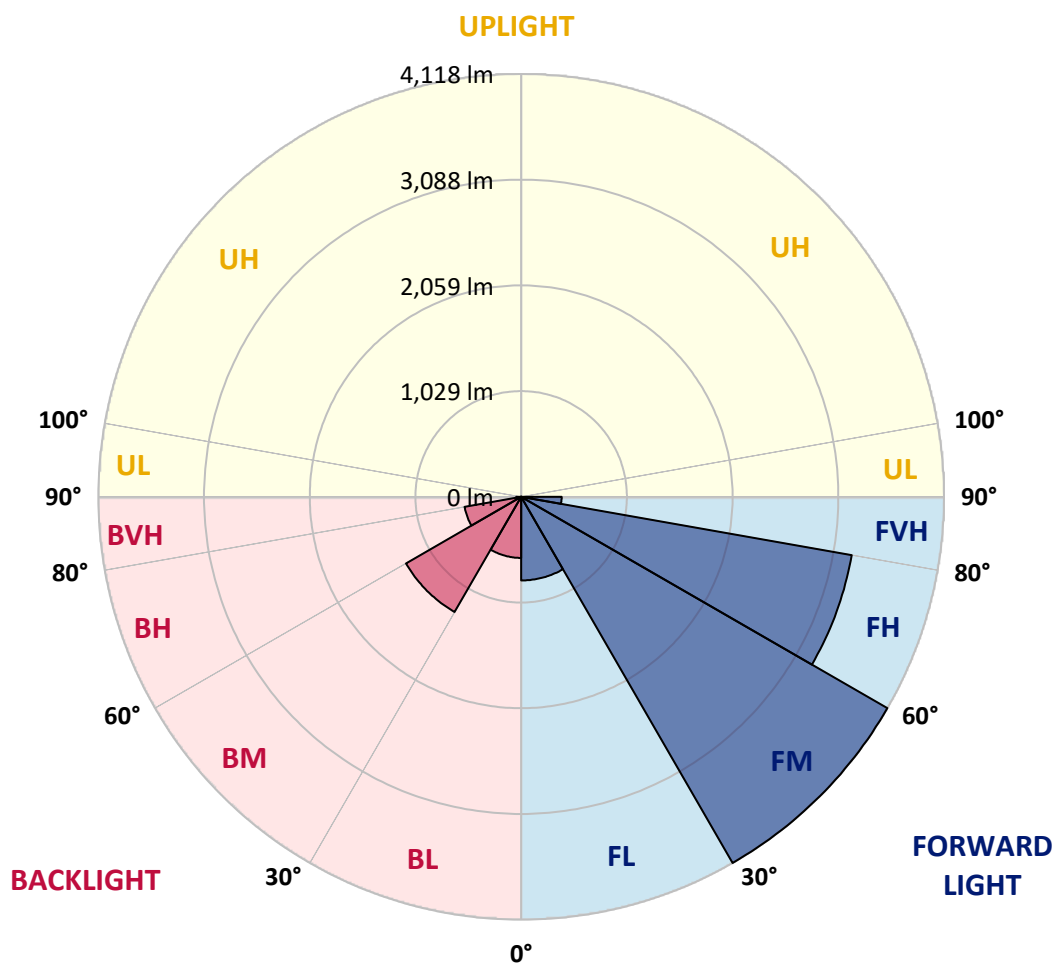
CATALOG NUMBER: VST-F05-LED-E-U-SLR

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	814.3	7.3			
FM	(30°-60°)	4117.6	37.1			
FH	(60°-80°)	3268.7	29.5			G2/5000
FVH	(80°-90°)	393.9	3.6			G3/500
BL	(0°-30°)	595.0	5.4	B2/1000		
BM	(30°-60°)	1295.2	11.7	B2/2500		
BH	(60°-80°)	559.3	5.0	B2/1000		G2/1000
BVH	(80°-90°)	48.1	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





REPORT NUMBER: P159115

CATALOG NUMBER: VST-F05-LED-E-U-SLR

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1461.2	1373.7	1375.3	1372.8	1372.8	1371.2	1372.8	1371.2	1369.5	1369.5	1370.4
5°	1480.2	1383.6	1383.6	1381.1	1379.5	1377.8	1379.5	1377.8	1377.0	1375.3	1376.2
7.5°	1498.3	1389.4	1386.1	1382.8	1378.6	1380.3	1380.3	1379.5	1380.3	1379.5	1381.1
10°	1528.0	1408.3	1400.1	1392.7	1391.8	1390.2	1390.2	1387.7	1387.7	1386.1	1386.9
12.5°	1604.0	1467.0	1457.9	1444.7	1442.2	1434.8	1430.6	1425.7	1417.4	1410.0	1404.2
15°	1732.0	1564.4	1547.0	1535.5	1530.5	1515.7	1492.5	1474.4	1450.4	1429.8	1408.3
17.5°	1888.8	1694.8	1674.2	1659.3	1634.5	1594.1	1555.3	1510.7	1464.5	1422.4	1383.6
20°	2108.4	1882.2	1841.7	1806.2	1744.3	1675.0	1602.3	1524.7	1453.7	1387.7	1330.7
22.5°	2405.6	2124.1	2049.0	1954.0	1839.3	1722.0	1606.5	1499.2	1404.2	1318.4	1242.4
25°	2747.3	2355.2	2219.8	2056.4	1880.5	1718.7	1566.8	1429.0	1318.4	1207.7	1125.2
27.5°	2999.1	2548.4	2348.6	2134.0	1909.4	1703.1	1516.5	1349.7	1216.0	1102.9	1003.0
30°	3142.8	2659.0	2418.8	2167.0	1914.4	1676.6	1452.9	1259.8	1105.4	970.8	875.1
32.5°	3235.2	2718.5	2426.2	2134.0	1855.0	1598.2	1356.3	1155.7	988.2	844.5	743.0
35°	3312.8	2742.4	2391.5	2060.5	1742.7	1479.3	1232.5	1031.9	854.4	722.3	618.3
37.5°	3344.2	2738.3	2336.2	1962.3	1632.9	1349.7	1106.2	900.6	742.1	625.7	536.6
40°	3338.4	2700.3	2261.1	1857.4	1504.1	1214.3	972.5	791.7	662.9	564.7	499.4
42.5°	3299.6	2649.9	2177.7	1750.9	1386.1	1102.1	881.7	721.5	617.5	543.2	486.2
45°	3250.9	2589.7	2101.8	1653.5	1292.8	1022.0	828.8	701.7	611.7	540.7	479.6
47.5°	3184.9	2522.8	2025.0	1584.2	1243.2	998.1	828.0	713.3	616.7	534.9	468.1
50°	3113.1	2474.1	1982.9	1554.5	1237.5	1012.9	856.9	731.4	620.0	529.2	452.4
52.5°	3062.7	2452.6	1982.1	1565.2	1268.0	1054.2	890.7	754.5	632.4	532.5	449.1
55°	3000.8	2449.3	2003.5	1611.4	1334.9	1124.4	944.4	794.2	657.9	544.8	451.6
57.5°	3004.9	2514.5	2086.9	1725.3	1455.4	1219.3	1012.9	842.9	682.7	552.3	447.4
60°	3135.3	2666.4	2251.2	1920.2	1613.1	1330.7	1083.1	869.3	681.1	535.8	427.6
62.5°	3404.5	2894.3	2497.2	2148.8	1773.2	1416.6	1108.7	861.8	656.3	500.3	395.4
65°	3725.6	3160.9	2736.6	2326.3	1870.6	1436.4	1086.4	820.6	606.8	454.0	356.6
67.5°	4046.7	3350.0	2874.5	2376.7	1831.0	1356.3	1003.8	728.1	522.6	391.3	312.9
70°	4162.3	3388.8	2863.7	2263.6	1651.0	1157.4	826.4	586.1	419.4	320.3	263.3
72.5°	3988.9	3146.1	2545.9	1923.5	1342.3	897.3	605.9	432.6	320.3	251.0	214.6
75°	3345.9	2533.5	2012.6	1448.8	969.2	634.8	437.5	315.4	241.1	199.0	171.7
77.5°	2384.9	1764.1	1371.2	951.8	629.0	440.0	313.7	236.9	191.5	159.3	139.5
80°	1498.3	1083.1	835.4	571.3	392.1	298.8	225.4	187.4	154.4	129.6	116.4
82.5°	902.3	630.7	492.0	355.0	257.6	204.7	165.9	146.9	123.0	107.3	99.9
85°	612.5	463.9	322.8	209.7	155.2	120.5	113.1	101.5	91.6	76.8	74.3
87.5°	117.2	165.9	144.5	85.9	57.0	48.7	42.9	41.3	37.1	29.7	33.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159115

CATALOG NUMBER: VST-F05-LED-E-U-SLR

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1365.4	1363.8	1360.5	1360.5	1358.0	1353.0	1352.2	1348.9	1344.8	1345.6	1344.8
5°	1370.4	1367.1	1362.9	1361.3	1358.0	1353.0	1350.6	1346.4	1342.3	1342.3	1342.3
7.5°	1376.2	1372.0	1368.7	1362.9	1356.3	1351.4	1344.8	1339.8	1337.4	1336.5	1337.4
10°	1381.1	1378.6	1373.7	1365.4	1356.3	1346.4	1339.8	1333.2	1326.6	1327.4	1328.3
12.5°	1391.8	1383.6	1370.4	1358.0	1344.0	1331.6	1320.0	1311.8	1303.5	1303.5	1304.3
15°	1384.4	1360.5	1342.3	1318.4	1302.7	1282.9	1269.7	1262.2	1257.3	1255.6	1256.4
17.5°	1340.7	1311.8	1284.5	1263.1	1241.6	1225.9	1220.1	1215.2	1208.6	1211.9	1208.6
20°	1274.6	1239.1	1200.3	1174.7	1149.1	1138.4	1128.5	1123.5	1119.4	1134.3	1134.3
22.5°	1179.7	1136.7	1097.1	1065.8	1036.9	1025.3	1015.4	1009.6	1012.1	1030.3	1031.9
25°	1060.0	1008.0	956.0	937.0	908.1	899.0	893.2	892.4	894.9	913.0	917.2
27.5°	932.8	878.4	833.8	790.0	776.8	769.4	758.7	771.0	773.5	793.3	801.6
30°	797.5	738.8	691.8	662.9	634.8	639.0	629.9	644.7	651.3	672.0	678.6
32.5°	658.8	603.5	556.4	527.5	507.7	510.2	503.6	516.8	523.4	548.1	560.5
35°	544.8	497.8	459.8	435.1	426.0	416.9	415.2	416.9	423.5	442.5	464.8
37.5°	479.6	440.8	413.6	395.4	383.0	377.3	374.0	374.0	374.0	378.1	388.8
40°	451.6	416.9	392.9	375.6	367.4	364.1	361.6	359.1	355.0	353.3	354.2
42.5°	439.2	399.6	374.0	360.8	355.8	355.8	355.8	354.2	350.0	345.9	341.8
45°	426.8	383.9	358.3	349.2	346.7	347.5	347.5	347.5	344.2	339.3	331.9
47.5°	411.1	366.5	340.9	335.2	335.2	337.6	338.5	338.5	335.2	330.2	324.4
50°	392.1	344.2	321.1	316.2	313.7	313.7	313.7	313.7	311.2	307.9	303.8
52.5°	382.2	331.9	307.9	303.0	303.0	300.5	299.7	297.2	294.7	292.2	286.5
55°	378.9	326.9	302.1	298.0	298.0	295.5	293.1	290.6	286.5	282.3	276.6
57.5°	369.8	316.2	294.7	291.4	291.4	289.8	287.3	284.8	280.7	274.9	267.5
60°	349.2	298.0	279.9	279.0	279.0	278.2	276.6	276.6	272.4	266.6	257.6
62.5°	322.8	279.0	261.7	261.7	260.9	260.0	256.7	255.9	251.0	243.5	235.3
65°	297.2	262.5	251.0	247.7	246.0	243.5	241.9	237.8	233.6	227.0	218.8
67.5°	265.0	237.8	230.3	227.0	223.7	221.2	218.8	216.3	211.3	206.4	199.8
70°	230.3	210.5	206.4	205.6	201.4	199.0	198.1	195.6	190.7	185.7	177.5
72.5°	197.3	185.7	182.4	182.4	177.5	174.2	172.5	171.7	168.4	164.3	156.8
75°	159.3	151.1	150.2	154.4	154.4	151.9	150.2	151.9	146.9	144.5	137.0
77.5°	130.4	126.3	123.8	125.5	130.4	128.0	124.7	124.7	124.7	120.5	118.1
80°	110.6	107.3	104.8	106.5	105.7	104.8	103.2	99.9	99.9	99.9	99.1
82.5°	99.9	99.1	90.0	90.0	86.7	84.2	82.6	80.9	79.3	79.3	83.4
85°	75.1	77.6	72.6	71.8	67.7	64.4	61.1	59.4	57.8	60.3	68.5
87.5°	36.3	36.3	34.7	38.8	35.5	33.8	31.4	29.7	31.4	38.8	46.2
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: P159115

CATALOG NUMBER: VST-F05-LED-E-U-SLR

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1343.1	1342.3	1341.5	1339.8	1336.5	1335.7	1334.0	1334.0	1333.2	1331.6	1333.2
5°	1340.7	1342.3	1342.3	1341.5	1339.0	1340.7	1340.7	1343.1	1343.1	1344.8	1348.9
7.5°	1337.4	1341.5	1344.8	1347.3	1350.6	1353.0	1358.0	1365.4	1368.7	1374.5	1377.0
10°	1330.7	1338.2	1344.0	1351.4	1359.6	1368.7	1376.2	1387.7	1391.8	1400.1	1404.2
12.5°	1311.8	1324.1	1334.0	1348.9	1362.9	1377.0	1390.2	1405.0	1412.5	1421.6	1427.3
15°	1265.5	1279.6	1293.6	1306.8	1331.6	1358.8	1380.3	1400.1	1410.8	1422.4	1428.2
17.5°	1210.2	1219.3	1230.9	1248.2	1272.1	1296.1	1330.7	1358.8	1375.3	1388.5	1390.2
20°	1145.8	1159.0	1167.3	1173.9	1192.9	1209.4	1246.5	1278.7	1300.2	1315.9	1320.0
22.5°	1047.6	1061.6	1075.7	1080.6	1095.5	1116.9	1137.6	1172.2	1202.8	1225.9	1239.9
25°	935.3	948.5	967.5	982.4	985.7	1003.0	1023.7	1063.3	1094.6	1131.8	1148.3
27.5°	823.0	834.6	855.2	863.5	873.4	890.7	907.3	940.3	973.3	1016.2	1034.4
30°	691.8	716.6	740.5	756.2	764.4	785.1	796.6	828.8	859.4	890.7	917.2
32.5°	579.5	601.8	629.0	648.9	658.8	674.5	692.6	719.9	743.8	774.3	804.9
35°	476.3	506.9	525.0	542.4	568.0	575.4	593.6	618.3	632.4	665.4	700.0
37.5°	403.7	421.8	440.0	457.3	478.8	488.7	506.0	526.7	543.2	563.0	594.4
40°	359.1	369.0	382.2	393.8	409.5	421.8	430.9	448.3	460.6	480.5	502.7
42.5°	338.5	340.9	342.6	350.8	359.1	367.4	377.3	384.7	399.6	414.4	428.4
45°	326.9	322.0	319.5	320.3	323.6	328.6	336.8	345.1	355.0	364.1	372.3
47.5°	317.0	310.4	303.0	298.8	299.7	301.3	307.9	314.5	319.5	326.9	330.2
50°	293.9	288.1	281.5	275.7	276.6	277.4	283.2	288.1	291.4	293.9	298.0
52.5°	279.0	270.8	265.0	259.2	258.4	260.9	265.8	270.8	272.4	274.1	274.9
55°	268.3	260.0	252.6	246.8	244.4	250.1	251.8	258.4	260.9	260.9	261.7
57.5°	260.0	250.1	242.7	236.9	232.8	236.9	241.1	248.5	249.3	247.7	247.7
60°	247.7	240.2	232.8	227.0	222.9	226.2	229.5	237.8	237.8	233.6	232.8
62.5°	226.2	222.1	217.1	214.6	213.8	217.1	219.6	226.2	223.7	218.8	217.1
65°	210.5	207.2	202.3	200.6	199.8	204.7	205.6	209.7	206.4	203.9	203.1
67.5°	191.5	189.0	186.6	185.7	183.3	183.3	184.9	187.4	185.7	185.7	186.6
70°	170.1	166.8	164.3	165.1	163.5	163.5	164.3	165.9	165.1	166.8	168.4
72.5°	150.2	146.1	145.3	145.3	143.6	144.5	144.5	145.3	146.9	147.8	151.9
75°	131.3	127.1	127.1	126.3	126.3	126.3	127.1	128.8	130.4	131.3	132.9
77.5°	113.9	111.4	112.3	111.4	111.4	111.4	111.4	113.9	114.7	115.6	118.1
80°	98.2	98.2	99.1	99.1	98.2	97.4	98.2	99.9	100.7	101.5	102.4
82.5°	89.2	90.0	90.0	90.0	85.9	84.2	86.7	88.3	90.0	90.8	92.5
85°	76.8	73.5	76.8	75.9	70.2	69.3	69.3	70.2	71.8	70.2	70.2
87.5°	49.5	44.6	47.1	47.1	41.3	33.8	42.9	46.2	41.3	43.8	43.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159115

CATALOG NUMBER: VST-F05-LED-E-U-SLR

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1335.7	1334.0	1334.9	1334.9	1336.5	1334.0	1337.4	1340.7	1341.5	1341.5	1342.3
5°	1353.0	1351.4	1357.2	1354.7	1360.5	1359.6	1363.8	1367.1	1368.7	1368.7	1368.7
7.5°	1380.3	1386.1	1389.4	1398.4	1399.3	1404.2	1408.3	1412.5	1410.8	1411.6	1410.8
10°	1410.8	1418.3	1426.5	1435.6	1436.4	1442.2	1448.8	1452.9	1451.3	1450.4	1448.0
12.5°	1437.2	1442.2	1452.1	1461.2	1466.1	1475.2	1481.8	1485.1	1485.1	1482.6	1480.2
15°	1435.6	1443.0	1453.7	1467.0	1476.0	1489.2	1500.8	1508.2	1509.1	1506.6	1505.8
17.5°	1399.3	1410.0	1419.9	1438.1	1454.6	1472.7	1491.7	1502.5	1512.4	1518.1	1521.4
20°	1334.0	1347.3	1361.3	1385.2	1407.5	1431.5	1453.7	1469.4	1484.3	1501.6	1522.3
22.5°	1257.3	1277.1	1296.9	1327.4	1354.7	1381.9	1407.5	1426.5	1449.6	1479.3	1518.1
25°	1167.3	1187.9	1212.7	1248.2	1282.9	1322.5	1360.5	1398.4	1443.0	1494.2	1554.5
27.5°	1060.8	1083.9	1116.1	1159.0	1198.7	1239.1	1298.6	1358.8	1431.5	1497.5	1566.0
30°	955.1	984.9	1019.5	1062.5	1102.1	1159.9	1219.3	1293.6	1370.4	1444.7	1526.4
32.5°	841.2	878.4	921.3	956.8	1001.4	1060.0	1119.4	1198.7	1280.4	1367.9	1457.9
35°	731.4	766.9	800.8	840.4	885.0	940.3	998.1	1074.0	1177.2	1270.5	1377.8
37.5°	620.0	653.0	676.9	708.3	747.1	808.2	870.1	957.6	1055.0	1169.8	1277.1
40°	522.6	549.8	577.0	601.8	634.8	692.6	758.7	844.5	940.3	1051.7	1171.4
42.5°	445.0	465.6	495.3	525.0	553.1	602.6	664.5	748.8	843.7	957.6	1077.3
45°	379.7	393.8	417.7	442.5	477.2	518.4	577.9	663.7	760.3	875.1	1001.4
47.5°	332.7	339.3	355.8	381.4	413.6	454.0	505.2	582.8	676.9	792.5	925.4
50°	300.5	307.9	316.2	337.6	366.5	407.8	449.9	517.6	603.5	716.6	848.6
52.5°	278.2	281.5	284.8	298.0	324.4	359.1	403.7	454.9	541.5	649.7	768.6
55°	265.0	265.8	268.3	274.9	294.7	326.9	365.7	414.4	482.1	584.5	705.8
57.5°	249.3	251.0	253.4	257.6	269.9	298.8	331.9	371.5	427.6	513.5	629.9
60°	234.4	238.6	242.7	245.2	251.8	269.1	297.2	328.6	374.0	438.4	530.8
62.5°	218.8	223.7	227.0	229.5	232.0	242.7	263.3	284.0	312.0	354.2	423.5
65°	204.7	208.0	210.5	212.2	213.8	217.1	226.2	234.4	242.7	268.3	318.7
67.5°	189.0	190.7	191.5	192.3	191.5	191.5	192.3	195.6	199.0	208.9	232.8
70°	170.9	173.4	173.4	174.2	174.2	171.7	171.7	171.7	171.7	174.2	187.4
72.5°	153.5	156.8	156.8	157.7	156.8	156.0	156.0	156.0	158.5	160.2	165.1
75°	137.0	140.3	139.5	140.3	141.2	141.2	142.8	143.6	146.1	146.9	150.2
77.5°	120.5	123.0	123.8	123.0	124.7	126.3	129.6	131.3	132.1	132.9	133.7
80°	104.8	106.5	105.7	103.2	107.3	109.8	114.7	120.5	118.9	119.7	121.4
82.5°	86.7	84.2	82.6	84.2	86.7	90.0	94.9	102.4	103.2	107.3	106.5
85°	66.9	59.4	58.6	62.7	61.9	66.0	74.3	80.1	85.0	89.2	85.0
87.5°	39.6	35.5	29.7	28.1	30.5	40.5	42.1	51.2	55.3	57.0	51.2
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: P159115

CATALOG NUMBER: VST-F05-LED-E-U-SLR

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
2.5°	1417.4	1421.6	1421.6	1423.2	1425.7	1426.5	1429.8	1435.6	1436.4	1436.4	1438.9
5°	1443.8	1448.0	1448.0	1451.3	1452.1	1456.2	1460.4	1467.0	1470.3	1469.4	1480.2
7.5°	1486.8	1483.5	1481.0	1485.9	1488.4	1493.4	1501.6	1507.4	1513.2	1522.3	1537.1
10°	1523.1	1518.1	1515.7	1519.0	1520.6	1526.4	1531.3	1539.6	1553.6	1567.7	1585.8
12.5°	1552.8	1547.0	1540.4	1542.1	1544.6	1552.0	1560.2	1571.0	1591.6	1609.8	1637.0
15°	1577.6	1569.3	1562.7	1566.0	1571.8	1581.7	1595.7	1614.7	1648.6	1679.9	1716.3
17.5°	1601.5	1599.9	1597.4	1608.1	1612.3	1635.4	1656.0	1690.7	1736.9	1784.0	1836.0
20°	1624.6	1642.8	1651.9	1673.3	1686.5	1717.9	1749.3	1791.4	1850.0	1914.4	1985.4
22.5°	1656.8	1706.4	1736.9	1780.7	1802.9	1836.8	1883.0	1938.3	2003.5	2086.1	2176.9
25°	1733.6	1806.2	1867.3	1935.9	1992.0	2044.0	2099.3	2166.2	2260.3	2335.4	2454.3
27.5°	1767.4	1869.8	1961.4	2058.0	2142.2	2222.3	2309.8	2390.7	2502.2	2603.7	2747.3
30°	1735.3	1850.8	1969.7	2096.0	2219.0	2340.4	2467.5	2591.3	2720.1	2862.1	3014.8
32.5°	1675.8	1805.4	1939.2	2087.8	2240.5	2398.1	2563.3	2743.2	2924.8	3101.5	3257.5
35°	1615.6	1755.1	1903.7	2073.7	2253.7	2449.3	2654.1	2881.9	3122.1	3345.9	3549.8
37.5°	1528.0	1681.6	1851.7	2048.1	2261.9	2503.0	2766.3	3047.0	3350.8	3658.7	3926.2
40°	1422.4	1585.0	1770.8	1996.9	2253.7	2558.3	2900.9	3260.8	3651.3	4026.9	4355.5
42.5°	1325.8	1484.3	1682.4	1928.4	2232.2	2607.0	3028.9	3477.1	3939.4	4359.6	4788.9
45°	1240.8	1415.8	1614.7	1880.5	2221.5	2648.3	3123.8	3638.9	4168.1	4668.3	5175.2
47.5°	1163.2	1344.8	1567.7	1854.1	2216.5	2673.0	3189.8	3744.6	4330.7	4905.3	5493.9
50°	1083.1	1259.8	1498.3	1825.2	2204.2	2672.2	3224.5	3816.4	4444.6	5089.4	5713.5
52.5°	997.2	1174.7	1414.1	1772.4	2177.7	2657.4	3233.6	3865.1	4534.6	5202.5	5900.0
55°	918.8	1084.7	1324.1	1684.1	2122.4	2621.0	3212.9	3885.7	4598.2	5314.7	6031.3
57.5°	828.8	1001.4	1229.2	1562.7	2018.4	2556.7	3154.3	3856.9	4616.3	5389.9	6135.3
60°	705.0	874.2	1108.7	1419.1	1855.8	2420.4	3045.4	3769.3	4558.5	5403.1	6209.6
62.5°	563.0	709.1	935.3	1221.0	1627.1	2206.6	2843.9	3572.9	4378.6	5279.2	6171.6
65°	418.5	516.0	710.8	961.7	1362.1	1884.7	2519.5	3243.5	4026.9	4935.0	5933.0
67.5°	291.4	361.6	481.3	667.8	990.6	1455.4	2056.4	2729.2	3482.9	4297.7	5437.7
70°	220.4	252.6	317.8	421.8	641.4	991.5	1495.0	2094.4	2793.6	3578.7	4652.7
72.5°	188.2	204.7	241.1	288.9	392.9	602.6	938.6	1441.4	2061.3	2700.3	3569.6
75°	169.2	183.3	206.4	236.9	278.2	365.7	550.6	912.2	1365.4	1808.7	2490.6
77.5°	153.5	165.9	186.6	202.3	224.5	263.3	350.8	545.7	818.1	1117.8	1545.4
80°	137.0	144.5	163.5	179.1	196.5	218.8	251.8	342.6	469.7	662.1	911.4
82.5°	117.2	123.0	137.0	158.5	171.7	180.8	190.7	227.0	281.5	359.1	506.0
85°	90.8	94.9	107.3	123.0	128.8	129.6	131.3	141.2	175.0	269.1	435.9
87.5°	46.2	51.2	64.4	69.3	58.6	63.6	64.4	68.5	90.8	147.8	150.2
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: P159115
CATALOG NUMBER: VST-F05-LED-E-U-SLR

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	0°
2.5°	1438.9	1441.4	1447.1	1446.3	1450.4	1450.4	1450.4	1454.6	1452.1	1454.6	1458.7	2.5°
5°	1480.2	1484.3	1492.5	1492.5	1493.4	1490.9	1495.9	1499.2	1495.0	1493.4	1494.2	5°
7.5°	1540.4	1547.0	1553.6	1560.2	1565.2	1562.7	1563.5	1556.1	1554.5	1548.7	1541.3	7.5°
10°	1599.0	1617.2	1629.6	1641.1	1642.0	1639.5	1640.3	1627.9	1625.5	1613.9	1606.5	10°
12.5°	1659.3	1682.4	1702.2	1714.6	1722.0	1723.7	1724.5	1724.5	1713.0	1703.1	1685.7	12.5°
15°	1748.5	1788.9	1819.5	1832.7	1843.4	1853.3	1855.8	1859.1	1850.0	1836.8	1834.3	15°
17.5°	1889.6	1927.6	1968.1	2003.5	2027.5	2029.1	2049.8	2048.1	2067.1	2052.3	2048.1	17.5°
20°	2057.2	2139.8	2181.9	2228.9	2256.2	2269.4	2317.2	2302.4	2316.4	2340.4	2316.4	20°
22.5°	2266.9	2371.7	2432.8	2497.2	2541.8	2574.0	2608.7	2635.9	2673.9	2692.0	2675.5	22.5°
25°	2545.1	2664.8	2737.4	2826.6	2897.6	2955.4	3015.6	3088.3	3087.5	3131.2	3161.8	25°
27.5°	2864.6	3017.3	3123.0	3279.8	3340.9	3438.3	3541.5	3653.8	3673.6	3730.5	3759.4	27.5°
30°	3165.1	3354.1	3563.8	3750.4	3961.7	4106.2	4225.9	4305.1	4424.8	4395.1	4378.6	30°
32.5°	3442.4	3694.2	3993.1	4299.3	4634.5	4863.2	5074.5	5172.7	5247.0	5089.4	4880.5	32.5°
35°	3802.4	4103.7	4445.5	4823.5	5249.5	5573.9	5791.9	5822.4	5780.3	5578.1	5232.2	35°
37.5°	4248.2	4564.3	4953.1	5352.7	5805.1	6109.7	6358.2	6402.8	6291.3	5930.6	5567.3	37.5°
40°	4688.2	5058.8	5480.7	5953.7	6422.6	6757.7	7007.1	7020.3	6838.6	6416.8	5991.7	40°
42.5°	5169.4	5574.8	6044.5	6568.7	7053.3	7392.6	7572.5	7629.5	7372.8	6832.0	6424.2	42.5°
45°	5584.7	6069.3	6592.6	7149.9	7656.7	7978.7	8162.0	8143.8	7833.4	7299.3	6821.3	45°
47.5°	5989.2	6522.5	7073.9	7665.8	8169.4	8494.7	8682.9	8666.4	8272.6	7657.6	7131.7	47.5°
50°	6349.1	6927.8	7517.2	8149.6	8651.5	8949.5	9179.8	9107.2	8609.4	7945.7	7331.5	50°
52.5°	6599.2	7244.8	7860.6	8544.2	9061.0	9343.3	9636.4	9402.7	8808.4	8122.3	7438.8	52.5°
55°	6757.7	7462.7	8105.0	8861.2	9368.9	9706.5	9895.6	9563.7	8885.1	8171.0	7476.0	55°
57.5°	6865.1	7582.4	8248.6	9044.5	9646.3	9929.4	9975.6	9569.5	8835.6	8094.3	7438.8	57.5°
60°	6917.9	7617.9	8313.9	9173.2	9841.1	9996.3	9912.1	9435.7	8664.7	7868.9	7199.4	60°
62.5°	6912.1	7573.4	8280.0	9216.2	9879.9	9899.7	9708.2	9207.9	8350.2	7395.9	6801.5	62.5°
65°	6765.2	7410.7	8089.3	9056.8	9699.1	9614.1	9373.0	8780.3	7738.5	6778.4	6477.9	65°
67.5°	6341.7	6960.8	7590.7	8535.1	9189.7	9107.2	8742.3	7939.9	7027.7	6231.9	6070.1	67.5°
70°	5633.4	6158.4	6711.5	7541.2	8228.0	8116.6	7478.4	6990.5	6323.5	5600.4	5544.2	70°
72.5°	4709.6	5107.5	5508.7	6126.2	6599.2	6371.4	5970.2	5944.6	5405.5	4853.3	4864.8	72.5°
75°	3683.5	3982.3	4169.7	4533.0	4847.5	4643.6	4667.5	4809.5	4632.0	4197.0	4055.8	75°
77.5°	2668.9	2955.4	3014.8	3230.3	3451.5	3683.5	3990.6	4324.9	4381.1	4136.7	3624.9	77.5°
80°	1746.8	2062.2	1944.9	2021.7	2332.9	2756.4	3317.0	3867.6	4056.6	3837.0	3207.2	80°
82.5°	1030.3	1471.9	1285.3	1416.6	1613.9	1982.9	2370.1	2785.3	3101.5	2867.9	2678.8	82.5°
85°	782.6	1160.7	1229.2	1388.5	1452.9	1468.6	1536.3	1671.7	1835.1	1896.2	1891.3	85°
87.5°	407.8	902.3	1012.9	937.0	874.2	757.8	591.1	636.5	582.0	795.8	753.7	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°



NUMBER: P159115

NUMBER: VST-F05-LED-E-U-SLR

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1379.5	1379.5	1379.5	1379.5	1379.5	1379.5	1379.5
1459.5	1457.1	1458.7	1459.5	1459.5	1459.5	1461.2
1493.4	1486.8	1484.3	1484.3	1483.5	1481.0	1480.2
1529.7	1518.1	1514.0	1509.1	1504.9	1502.5	1498.3
1594.9	1585.0	1564.4	1552.8	1542.1	1534.7	1528.0
1682.4	1668.4	1648.6	1633.7	1617.2	1612.3	1604.0
1817.8	1805.4	1788.1	1771.6	1761.7	1744.3	1732.0
2029.1	2004.4	1987.0	1965.6	1941.6	1906.1	1888.8
2307.3	2257.8	2223.1	2204.2	2156.3	2150.5	2108.4
2626.8	2612.0	2559.1	2536.0	2489.8	2471.6	2405.6
3104.8	3093.2	2985.1	2973.5	2902.5	2849.7	2747.3
3733.0	3638.1	3515.9	3430.9	3309.5	3173.3	2999.1
4282.0	4088.0	3901.4	3703.3	3535.7	3340.1	3142.8
4632.0	4372.0	4131.8	3928.7	3721.5	3488.7	3235.2
4939.1	4676.6	4414.9	4174.7	3923.7	3625.7	3312.8
5306.5	5045.6	4750.9	4413.3	4091.3	3726.4	3344.2
5682.9	5377.5	5009.3	4595.7	4191.2	3776.0	3338.4
6068.4	5678.0	5188.4	4717.0	4254.8	3783.4	3299.6
6381.3	5887.6	5321.3	4779.0	4268.0	3757.8	3250.9
6602.5	6022.2	5380.8	4800.4	4251.5	3717.3	3184.9
6728.9	6095.7	5395.6	4784.7	4217.6	3659.6	3113.1
6775.1	6118.0	5380.8	4752.5	4187.1	3597.6	3062.7
6770.1	6105.6	5326.3	4677.4	4105.3	3515.1	3000.8
6676.8	5990.8	5214.8	4587.4	4036.0	3477.1	3004.9
6518.3	5918.2	5181.8	4605.6	4072.3	3558.8	3135.3
6446.5	6063.5	5367.6	4787.2	4258.9	3792.5	3404.5
6406.1	6299.6	5633.4	4982.9	4480.1	4075.6	3725.6
6241.0	6367.3	5784.5	5094.3	4677.4	4359.6	4046.7
5974.3	6209.6	5669.7	5072.9	4786.4	4577.5	4162.3
5417.9	5666.4	5158.7	4756.7	4650.2	4580.8	3988.9
4389.3	4518.1	4229.2	4138.4	4178.0	4178.8	3345.9
3236.9	3159.3	3028.9	3035.5	3302.1	3260.8	2384.9
2642.5	2162.9	1978.0	2048.1	2377.5	2200.0	1498.3
2459.2	1929.3	1592.4	1608.9	1795.5	1417.4	902.3
1988.7	1758.4	1410.0	1265.5	1228.4	944.4	612.5
832.1	765.3	569.6	513.5	421.0	257.6	117.2
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)