

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: P159101

Luminaire Tested: **VST-E04-LED-E-U-SLR-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159101
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-E04-LED-E-U-SLR-7050
Description: VENTUS LED SITE/ROADWAY 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: 11029.7 lumens
Efficiency: N/A
Efficacy: 113.5 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

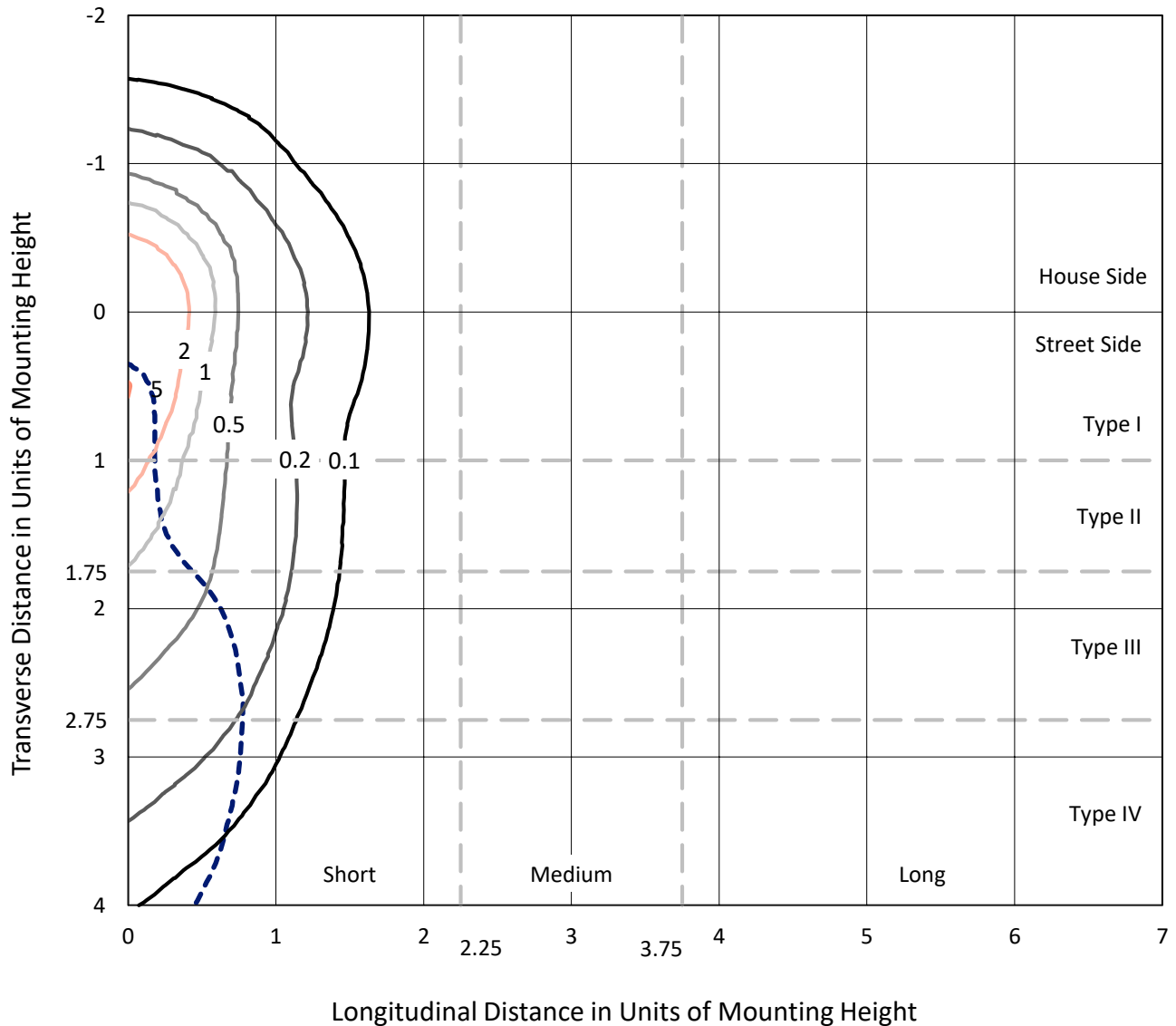
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P159101
 CATALOG NUMBER: VST-E04-LED-E-U-SLR-7050

Iso-Footcandle Lines of Horizontal Illumination

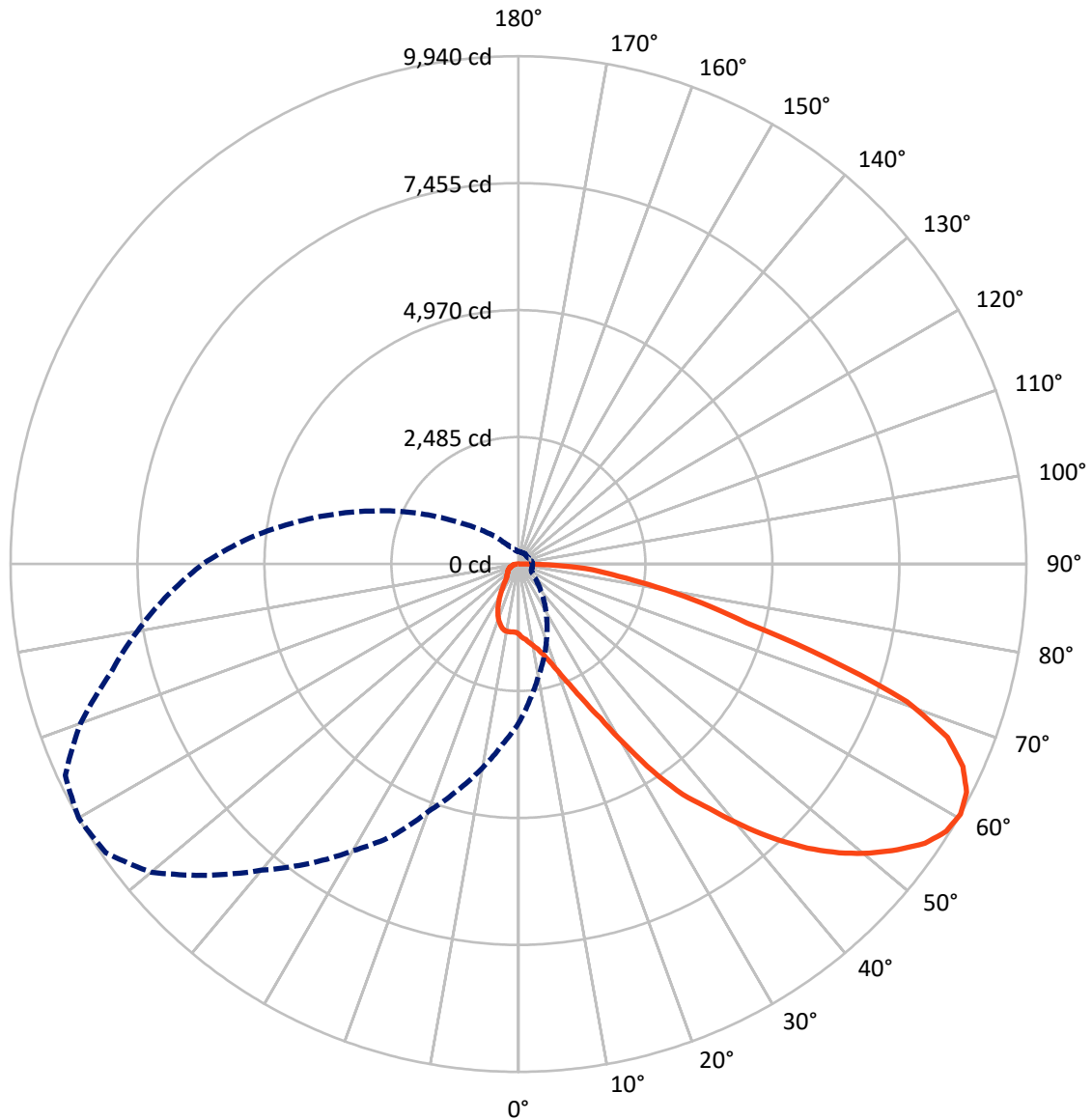
× Max cd
 - - - 1/2 Max cd



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

REPORT NUMBER: P159101
CATALOG NUMBER: VST-E04-LED-E-U-SLR-7050

Luminous Intensity Polar Plot



— Vertical Plane Through 300-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

REPORT NUMBER: P159101

CATALOG NUMBER: VST-E04-LED-E-U-SLR-7050

FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2483.6	0.0	2483.6
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	8546.2	0.0	8546.2
	% Fixture	77.5	0.0	77.5
Total	Lumens	11029.7	0.0	11029.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	135.3	1.2
10°-20°	436.9	4.0
20°-30°	829.1	7.5
30°-40°	1305.7	11.8
40°-50°	1822.5	16.5
50°-60°	2254.0	20.4
60°-70°	2336.4	21.2
70°-80°	1470.2	13.3
80°-90°	439.5	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°	11029.7	100.0
0°-180°	11029.7	100.0



REPORT NUMBER: P159101

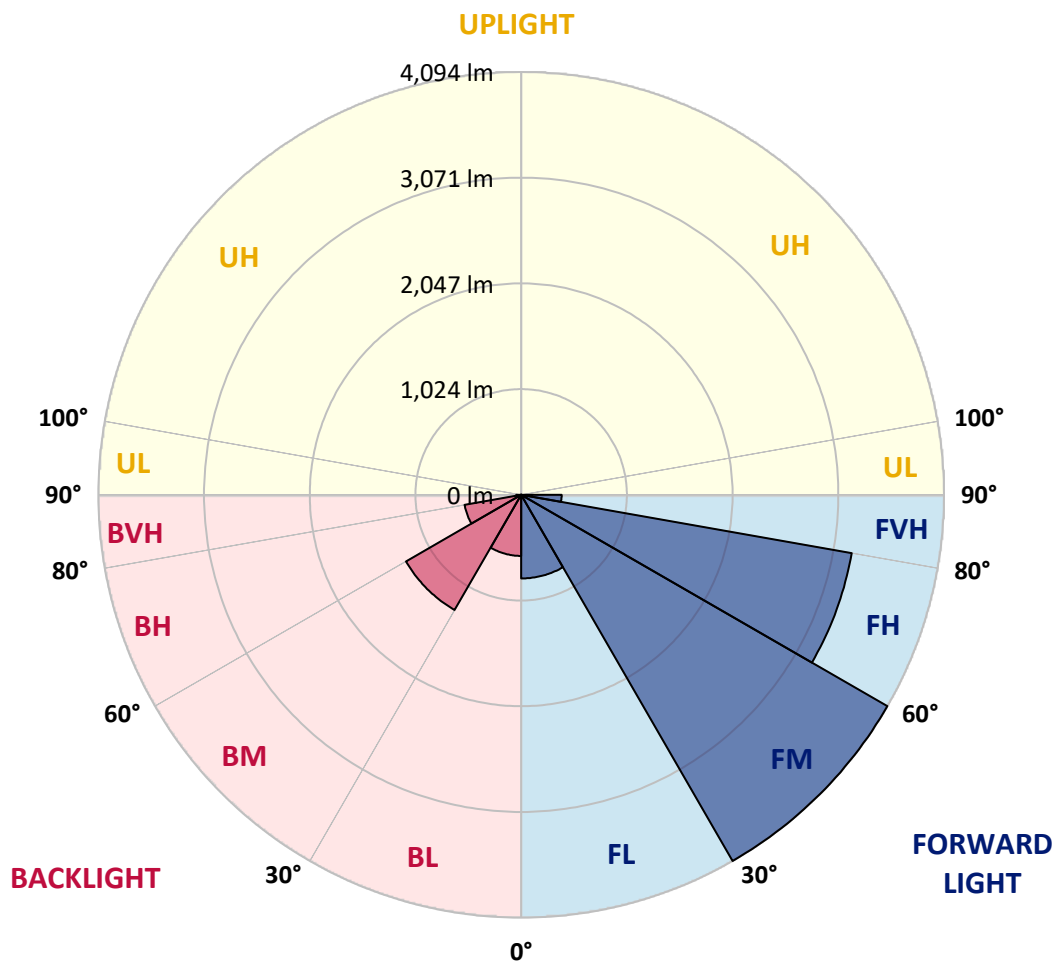
CATALOG NUMBER: VST-E04-LED-E-U-SLR-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	809.7	7.3			
FM	(30°-60°)	4094.4	37.1			
FH	(60°-80°)	3250.4	29.5			G2/5000
FVH	(80°-90°)	391.7	3.6			G3/500
BL	(0°-30°)	591.7	5.4	B2/1000		
BM	(30°-60°)	1287.9	11.7	B2/2500		
BH	(60°-80°)	556.2	5.0	B2/1000		G2/1000
BVH	(80°-90°)	47.8	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: P159101

CATALOG NUMBER: VST-E04-LED-E-U-SLR-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1453.0	1366.0	1367.6	1365.1	1365.1	1363.5	1365.1	1363.5	1361.8	1361.8	1362.7
5°	1471.8	1375.8	1375.8	1373.3	1371.7	1370.1	1371.7	1370.1	1369.2	1367.6	1368.4
7.5°	1489.9	1381.5	1378.3	1375.0	1370.9	1372.5	1372.5	1371.7	1372.5	1371.7	1373.3
10°	1519.5	1400.4	1392.2	1384.8	1384.0	1382.4	1382.4	1379.9	1379.9	1378.3	1379.1
12.5°	1595.0	1458.7	1449.7	1436.5	1434.1	1426.7	1422.6	1417.7	1409.5	1402.1	1396.3
15°	1722.2	1555.6	1538.3	1526.8	1521.9	1507.1	1484.2	1466.1	1442.3	1421.8	1400.4
17.5°	1878.2	1685.3	1664.8	1650.0	1625.4	1585.1	1546.5	1502.2	1456.2	1414.4	1375.8
20°	2096.5	1871.6	1831.4	1796.1	1734.5	1665.6	1593.3	1516.2	1445.6	1379.9	1323.3
22.5°	2392.1	2112.1	2037.4	1943.0	1828.9	1712.4	1597.4	1490.7	1396.3	1311.0	1235.4
25°	2731.9	2342.0	2207.4	2044.8	1870.0	1709.1	1558.0	1421.0	1311.0	1201.0	1118.9
27.5°	2982.3	2534.1	2335.4	2122.0	1898.7	1693.5	1508.0	1342.1	1209.2	1096.7	997.4
30°	3125.1	2644.1	2405.2	2154.8	1903.6	1667.2	1444.8	1252.7	1099.2	965.4	870.1
32.5°	3217.0	2703.2	2412.6	2122.0	1844.5	1589.2	1348.7	1149.2	982.6	839.8	738.8
35°	3294.2	2727.0	2378.1	2048.9	1732.9	1471.0	1225.6	1026.1	849.6	718.3	614.8
37.5°	3325.4	2722.9	2323.1	1951.2	1623.7	1342.1	1100.0	895.6	738.0	622.2	533.6
40°	3319.7	2685.1	2248.4	1847.0	1495.7	1207.5	967.0	787.2	659.2	561.5	496.6
42.5°	3281.1	2635.0	2165.5	1741.1	1378.3	1095.9	876.7	717.5	614.0	540.1	483.5
45°	3232.6	2575.1	2090.0	1644.2	1285.5	1016.3	824.2	697.8	608.3	537.7	476.9
47.5°	3167.0	2508.6	2013.6	1575.3	1236.3	992.4	823.3	709.2	613.2	531.9	465.4
50°	3095.6	2460.2	1971.8	1545.7	1230.5	1007.2	852.1	727.3	616.5	526.2	449.8
52.5°	3045.5	2438.8	1970.9	1556.4	1260.9	1048.3	885.7	750.3	628.8	529.5	446.6
55°	2983.9	2435.6	1992.3	1602.4	1327.4	1118.0	939.1	789.7	654.2	541.8	449.0
57.5°	2988.0	2500.4	2075.2	1715.6	1447.2	1212.4	1007.2	838.1	678.9	549.2	444.9
60°	3117.7	2651.5	2238.6	1909.4	1604.0	1323.3	1077.0	864.4	677.2	532.8	425.2
62.5°	3385.3	2878.0	2483.2	2136.8	1763.3	1408.6	1102.4	857.0	652.6	497.5	393.2
65°	3704.7	3143.2	2721.2	2313.3	1860.1	1428.3	1080.3	816.0	603.4	451.5	354.6
67.5°	4024.0	3331.1	2858.3	2363.3	1820.7	1348.7	998.2	724.0	519.6	389.1	311.1
70°	4138.9	3369.7	2847.6	2250.9	1641.8	1150.9	821.7	582.8	417.0	318.5	261.9
72.5°	3966.5	3128.4	2531.6	1912.7	1334.8	892.3	602.5	430.1	318.5	249.5	213.4
75°	3327.0	2519.3	2001.3	1440.7	963.7	631.3	435.1	313.6	239.7	197.8	170.7
77.5°	2371.5	1754.2	1363.5	946.5	625.5	437.5	311.9	235.6	190.4	158.4	138.7
80°	1489.9	1077.0	830.7	568.1	389.9	297.2	224.1	186.3	153.5	128.9	115.7
82.5°	897.2	627.2	489.2	353.0	256.1	203.6	165.0	146.1	122.3	106.7	99.3
85°	609.1	461.3	321.0	208.5	154.3	119.8	112.5	101.0	91.1	76.3	73.9
87.5°	116.6	165.0	143.7	85.4	56.6	48.4	42.7	41.0	36.9	29.6	33.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159101

CATALOG NUMBER: VST-E04-LED-E-U-SLR-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1357.7	1356.1	1352.8	1352.8	1350.4	1345.4	1344.6	1341.3	1337.2	1338.0	1337.2
5°	1362.7	1359.4	1355.3	1353.6	1350.4	1345.4	1343.0	1338.9	1334.8	1334.8	1334.8
7.5°	1368.4	1364.3	1361.0	1355.3	1348.7	1343.8	1337.2	1332.3	1329.8	1329.0	1329.8
10°	1373.3	1370.9	1366.0	1357.7	1348.7	1338.9	1332.3	1325.7	1319.2	1320.0	1320.8
12.5°	1384.0	1375.8	1362.7	1350.4	1336.4	1324.1	1312.6	1304.4	1296.2	1296.2	1297.0
15°	1376.6	1352.8	1334.8	1311.0	1295.4	1275.7	1262.5	1255.1	1250.2	1248.6	1249.4
17.5°	1333.1	1304.4	1277.3	1256.0	1234.6	1219.0	1213.3	1208.3	1201.8	1205.1	1201.8
20°	1267.4	1232.1	1193.6	1168.1	1142.7	1132.0	1122.1	1117.2	1113.1	1127.9	1127.9
22.5°	1173.0	1130.4	1091.0	1059.8	1031.0	1019.5	1009.7	1003.9	1006.4	1024.5	1026.1
25°	1054.0	1002.3	950.6	931.7	903.0	893.9	888.2	887.4	889.8	907.9	912.0
27.5°	927.6	873.4	829.1	785.6	772.5	765.1	754.4	766.7	769.2	788.9	797.1
30°	793.0	734.7	687.9	659.2	631.3	635.4	626.3	641.1	647.7	668.2	674.8
32.5°	655.1	600.1	553.3	524.5	504.8	507.3	500.7	513.9	520.4	545.1	557.4
35°	541.8	495.0	457.2	432.6	423.6	414.5	412.9	414.5	421.1	440.0	462.2
37.5°	476.9	438.4	411.3	393.2	380.9	375.1	371.9	371.9	371.9	376.0	386.6
40°	449.0	414.5	390.7	373.5	365.3	362.0	359.5	357.1	353.0	351.3	352.2
42.5°	436.7	397.3	371.9	358.7	353.8	353.8	353.8	352.2	348.1	344.0	339.8
45°	424.4	381.7	356.3	347.2	344.8	345.6	345.6	345.6	342.3	337.4	330.0
47.5°	408.8	364.5	339.0	333.3	333.3	335.7	336.6	336.6	333.3	328.4	322.6
50°	389.9	342.3	319.3	314.4	311.9	311.9	311.9	311.9	309.5	306.2	302.1
52.5°	380.1	330.0	306.2	301.3	301.3	298.8	298.0	295.5	293.1	290.6	284.8
55°	376.8	325.1	300.4	296.3	296.3	293.9	291.4	289.0	284.8	280.7	275.0
57.5°	367.8	314.4	293.1	289.8	289.8	288.1	285.7	283.2	279.1	273.4	266.0
60°	347.2	296.3	278.3	277.5	277.5	276.6	275.0	275.0	270.9	265.1	256.1
62.5°	321.0	277.5	260.2	260.2	259.4	258.6	255.3	254.5	249.5	242.2	234.0
65°	295.5	261.0	249.5	246.3	244.6	242.2	240.5	236.4	232.3	225.7	217.5
67.5°	263.5	236.4	229.0	225.7	222.5	220.0	217.5	215.1	210.1	205.2	198.7
70°	229.0	209.3	205.2	204.4	200.3	197.8	197.0	194.5	189.6	184.7	176.5
72.5°	196.2	184.7	181.4	181.4	176.5	173.2	171.6	170.7	167.5	163.4	156.0
75°	158.4	150.2	149.4	153.5	153.5	151.0	149.4	151.0	146.1	143.7	136.3
77.5°	129.7	125.6	123.1	124.8	129.7	127.2	124.0	124.0	124.0	119.8	117.4
80°	110.0	106.7	104.3	105.9	105.1	104.3	102.6	99.3	99.3	99.3	98.5
82.5°	99.3	98.5	89.5	89.5	86.2	83.7	82.1	80.4	78.8	78.8	82.9
85°	74.7	77.2	72.2	71.4	67.3	64.0	60.7	59.1	57.5	59.9	68.1
87.5°	36.1	36.1	34.5	38.6	35.3	33.7	31.2	29.6	31.2	38.6	46.0
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: P159101

CATALOG NUMBER: VST-E04-LED-E-U-SLR-7050

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1335.6	1334.8	1333.9	1332.3	1329.0	1328.2	1326.5	1326.5	1325.7	1324.1	1325.7
5°	1333.1	1334.8	1334.8	1333.9	1331.5	1333.1	1333.1	1335.6	1335.6	1337.2	1341.3
7.5°	1329.8	1333.9	1337.2	1339.7	1343.0	1345.4	1350.4	1357.7	1361.0	1366.8	1369.2
10°	1323.3	1330.7	1336.4	1343.8	1352.0	1361.0	1368.4	1379.9	1384.0	1392.2	1396.3
12.5°	1304.4	1316.7	1326.5	1341.3	1355.3	1369.2	1382.4	1397.1	1404.5	1413.6	1419.3
15°	1258.4	1272.4	1286.3	1299.5	1324.1	1351.2	1372.5	1392.2	1402.9	1414.4	1420.1
17.5°	1203.4	1212.4	1223.9	1241.2	1265.0	1288.8	1323.3	1351.2	1367.6	1380.7	1382.4
20°	1139.4	1152.5	1160.7	1167.3	1186.2	1202.6	1239.5	1271.5	1292.9	1308.5	1312.6
22.5°	1041.7	1055.7	1069.6	1074.5	1089.3	1110.7	1131.2	1165.7	1196.0	1219.0	1233.0
25°	930.1	943.2	962.1	976.9	980.1	997.4	1017.9	1057.3	1088.5	1125.4	1141.9
27.5°	818.4	829.9	850.4	858.6	868.5	885.7	902.2	935.0	967.8	1010.5	1028.6
30°	687.9	712.5	736.3	751.9	760.1	780.7	792.2	824.2	854.5	885.7	912.0
32.5°	576.3	598.4	625.5	645.2	655.1	670.7	688.7	715.8	739.6	770.0	800.4
35°	473.7	504.0	522.1	539.3	564.8	572.2	590.2	614.8	628.8	661.6	696.1
37.5°	401.4	419.5	437.5	454.8	476.1	486.0	503.2	523.7	540.1	559.8	591.0
40°	357.1	366.9	380.1	391.6	407.2	419.5	428.5	445.7	458.1	477.8	499.9
42.5°	336.6	339.0	340.7	348.9	357.1	365.3	375.1	382.5	397.3	412.1	426.0
45°	325.1	320.1	317.7	318.5	321.8	326.7	334.9	343.1	353.0	362.0	370.2
47.5°	315.2	308.7	301.3	297.2	298.0	299.6	306.2	312.8	317.7	325.1	328.4
50°	292.2	286.5	279.9	274.2	275.0	275.8	281.6	286.5	289.8	292.2	296.3
52.5°	277.5	269.3	263.5	257.8	256.9	259.4	264.3	269.3	270.9	272.5	273.4
55°	266.8	258.6	251.2	245.4	243.0	248.7	250.4	256.9	259.4	259.4	260.2
57.5°	258.6	248.7	241.3	235.6	231.5	235.6	239.7	247.1	247.9	246.3	246.3
60°	246.3	238.9	231.5	225.7	221.6	224.9	228.2	236.4	236.4	232.3	231.5
62.5°	224.9	220.8	215.9	213.4	212.6	215.9	218.4	224.9	222.5	217.5	215.9
65°	209.3	206.0	201.1	199.5	198.7	203.6	204.4	208.5	205.2	202.8	201.9
67.5°	190.4	188.0	185.5	184.7	182.2	182.2	183.9	186.3	184.7	184.7	185.5
70°	169.1	165.8	163.4	164.2	162.5	162.5	163.4	165.0	164.2	165.8	167.5
72.5°	149.4	145.3	144.5	144.5	142.8	143.7	143.7	144.5	146.1	146.9	151.0
75°	130.5	126.4	126.4	125.6	125.6	125.6	126.4	128.1	129.7	130.5	132.2
77.5°	113.3	110.8	111.6	110.8	110.8	110.8	110.8	113.3	114.1	114.9	117.4
80°	97.7	97.7	98.5	98.5	97.7	96.9	97.7	99.3	100.1	101.0	101.8
82.5°	88.7	89.5	89.5	89.5	85.4	83.7	86.2	87.8	89.5	90.3	91.9
85°	76.3	73.1	76.3	75.5	69.8	69.0	69.0	69.8	71.4	69.8	69.8
87.5°	49.3	44.3	46.8	46.8	41.0	33.7	42.7	46.0	41.0	43.5	43.5
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: P159101

CATALOG NUMBER: VST-E04-LED-E-U-SLR-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1328.2	1326.5	1327.4	1327.4	1329.0	1326.5	1329.8	1333.1	1333.9	1333.9	1334.8
5°	1345.4	1343.8	1349.5	1347.1	1352.8	1352.0	1356.1	1359.4	1361.0	1361.0	1361.0
7.5°	1372.5	1378.3	1381.5	1390.6	1391.4	1396.3	1400.4	1404.5	1402.9	1403.7	1402.9
10°	1402.9	1410.3	1418.5	1427.5	1428.3	1434.1	1440.7	1444.8	1443.1	1442.3	1439.8
12.5°	1429.2	1434.1	1443.9	1453.0	1457.9	1466.9	1473.5	1476.8	1476.8	1474.3	1471.8
15°	1427.5	1434.9	1445.6	1458.7	1467.7	1480.9	1492.4	1499.8	1500.6	1498.1	1497.3
17.5°	1391.4	1402.1	1411.9	1430.0	1446.4	1464.5	1483.3	1494.0	1503.9	1509.6	1512.9
20°	1326.5	1339.7	1353.6	1377.4	1399.6	1423.4	1445.6	1461.2	1476.0	1493.2	1513.7
22.5°	1250.2	1269.9	1289.6	1320.0	1347.1	1374.2	1399.6	1418.5	1441.5	1471.0	1509.6
25°	1160.7	1181.3	1205.9	1241.2	1275.7	1315.1	1352.8	1390.6	1434.9	1485.8	1545.7
27.5°	1054.8	1077.8	1109.8	1152.5	1191.9	1232.1	1291.3	1351.2	1423.4	1489.1	1557.2
30°	949.8	979.3	1013.8	1056.5	1095.9	1153.3	1212.4	1286.3	1362.7	1436.5	1517.8
32.5°	836.5	873.4	916.1	951.4	995.7	1054.0	1113.1	1191.9	1273.2	1360.2	1449.7
35°	727.3	762.6	796.3	835.7	880.0	935.0	992.4	1068.0	1170.6	1263.3	1370.1
37.5°	616.5	649.3	673.1	704.3	742.9	803.6	865.2	952.2	1049.1	1163.2	1269.9
40°	519.6	546.7	573.8	598.4	631.3	688.7	754.4	839.8	935.0	1045.8	1164.8
42.5°	442.5	463.0	492.5	522.1	550.0	599.2	660.8	744.5	838.9	952.2	1071.3
45°	377.6	391.6	415.4	440.0	474.5	515.5	574.6	660.0	756.0	870.1	995.7
47.5°	330.8	337.4	353.8	379.2	411.3	451.5	502.4	579.5	673.1	788.0	920.2
50°	298.8	306.2	314.4	335.7	364.5	405.5	447.4	514.7	600.1	712.5	843.9
52.5°	276.6	279.9	283.2	296.3	322.6	357.1	401.4	452.3	538.5	646.0	764.2
55°	263.5	264.3	266.8	273.4	293.1	325.1	363.7	412.1	479.4	581.2	701.9
57.5°	247.9	249.5	252.0	256.1	268.4	297.2	330.0	369.4	425.2	510.6	626.3
60°	233.1	237.2	241.3	243.8	250.4	267.6	295.5	326.7	371.9	435.9	527.8
62.5°	217.5	222.5	225.7	228.2	230.7	241.3	261.9	282.4	310.3	352.2	421.1
65°	203.6	206.9	209.3	211.0	212.6	215.9	224.9	233.1	241.3	266.8	316.9
67.5°	188.0	189.6	190.4	191.3	190.4	190.4	191.3	194.5	197.8	207.7	231.5
70°	169.9	172.4	172.4	173.2	173.2	170.7	170.7	170.7	170.7	173.2	186.3
72.5°	152.7	156.0	156.0	156.8	156.0	155.1	155.1	155.1	157.6	159.3	164.2
75°	136.3	139.6	138.7	139.6	140.4	140.4	142.0	142.8	145.3	146.1	149.4
77.5°	119.8	122.3	123.1	122.3	124.0	125.6	128.9	130.5	131.3	132.2	133.0
80°	104.3	105.9	105.1	102.6	106.7	109.2	114.1	119.8	118.2	119.0	120.7
82.5°	86.2	83.7	82.1	83.7	86.2	89.5	94.4	101.8	102.6	106.7	105.9
85°	66.5	59.1	58.3	62.4	61.6	65.7	73.9	79.6	84.6	88.7	84.6
87.5°	39.4	35.3	29.6	27.9	30.4	40.2	41.9	50.9	55.0	56.6	50.9
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: P159101

CATALOG NUMBER: VST-E04-LED-E-U-SLR-7050

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
2.5°	1409.5	1413.6	1413.6	1415.2	1417.7	1418.5	1421.8	1427.5	1428.3	1428.3	1430.8
5°	1435.7	1439.8	1439.8	1443.1	1443.9	1448.0	1452.1	1458.7	1462.0	1461.2	1471.8
7.5°	1478.4	1475.1	1472.7	1477.6	1480.1	1485.0	1493.2	1498.9	1504.7	1513.7	1528.5
10°	1514.5	1509.6	1507.1	1510.4	1512.1	1517.8	1522.7	1530.9	1544.9	1558.9	1576.9
12.5°	1544.1	1538.3	1531.8	1533.4	1535.9	1543.3	1551.5	1562.1	1582.7	1600.7	1627.8
15°	1568.7	1560.5	1553.9	1557.2	1563.0	1572.8	1586.8	1605.6	1639.3	1670.5	1706.6
17.5°	1592.5	1590.9	1588.4	1599.1	1603.2	1626.2	1646.7	1681.2	1727.1	1773.9	1825.6
20°	1615.5	1633.6	1642.6	1663.9	1677.1	1708.3	1739.5	1781.3	1839.6	1903.6	1974.2
22.5°	1647.5	1696.8	1727.1	1770.6	1792.8	1826.5	1872.4	1927.4	1992.3	2074.4	2164.7
25°	1723.9	1796.1	1856.8	1925.0	1980.8	2032.5	2087.5	2154.0	2247.6	2322.3	2440.5
27.5°	1757.5	1859.3	1950.4	2046.5	2130.2	2209.8	2296.8	2377.3	2488.1	2589.1	2731.9
30°	1725.5	1840.4	1958.6	2084.2	2206.5	2327.2	2453.6	2576.8	2704.8	2846.0	2997.9
32.5°	1666.4	1795.3	1928.3	2076.0	2227.9	2384.7	2548.8	2727.8	2908.4	3084.1	3239.2
35°	1606.5	1745.2	1893.0	2062.1	2241.0	2435.6	2639.1	2865.7	3104.6	3327.0	3529.8
37.5°	1519.5	1672.1	1841.2	2036.6	2249.2	2488.9	2750.8	3029.9	3332.0	3638.2	3904.1
40°	1414.4	1576.1	1760.8	1985.7	2241.0	2543.9	2884.6	3242.5	3630.8	4004.3	4331.0
42.5°	1318.3	1476.0	1673.0	1917.6	2219.7	2592.4	3011.8	3457.6	3917.3	4335.1	4762.0
45°	1233.8	1407.8	1605.6	1870.0	2209.0	2633.4	3106.2	3618.5	4144.6	4642.1	5146.1
47.5°	1156.6	1337.2	1558.9	1843.7	2204.1	2658.0	3171.9	3723.5	4306.4	4877.7	5463.0
50°	1077.0	1252.7	1489.9	1815.0	2191.8	2657.2	3206.4	3794.9	4419.6	5060.8	5681.3
52.5°	991.6	1168.1	1406.2	1762.4	2165.5	2642.4	3215.4	3843.4	4509.1	5173.2	5866.9
55°	913.6	1078.6	1316.7	1674.6	2110.5	2606.3	3194.9	3863.9	4572.3	5284.9	5997.4
57.5°	824.2	995.7	1222.3	1553.9	2007.1	2542.3	3136.6	3835.2	4590.4	5359.6	6100.8
60°	701.0	869.3	1102.4	1411.1	1845.3	2406.8	3028.2	3748.2	4532.9	5372.7	6174.7
62.5°	559.8	705.1	930.1	1214.1	1618.0	2194.2	2827.9	3552.8	4354.0	5249.6	6136.9
65°	416.2	513.1	706.8	956.3	1354.5	1874.1	2505.3	3225.3	4004.3	4907.2	5899.7
67.5°	289.8	359.5	478.6	664.1	985.1	1447.2	2044.8	2713.8	3463.3	4273.5	5407.2
70°	219.2	251.2	316.0	419.5	637.8	985.9	1486.6	2082.6	2777.9	3558.5	4626.5
72.5°	187.2	203.6	239.7	287.3	390.7	599.2	933.3	1433.3	2049.7	2685.1	3549.5
75°	168.3	182.2	205.2	235.6	276.6	363.7	547.5	907.1	1357.7	1798.6	2476.6
77.5°	152.7	165.0	185.5	201.1	223.3	261.9	348.9	542.6	813.5	1111.5	1536.7
80°	136.3	143.7	162.5	178.1	195.4	217.5	250.4	340.7	467.1	658.3	906.3
82.5°	116.6	122.3	136.3	157.6	170.7	179.8	189.6	225.7	279.9	357.1	503.2
85°	90.3	94.4	106.7	122.3	128.1	128.9	130.5	140.4	174.0	267.6	433.4
87.5°	46.0	50.9	64.0	69.0	58.3	63.2	64.0	68.1	90.3	146.9	149.4
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: P159101
 CATALOG NUMBER: VST-E04-LED-E-U-SLR-7050

REPORT N
 CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	0°
2.5°	1430.8	1433.3	1439.0	1438.2	1442.3	1442.3	1442.3	1446.4	1443.9	1446.4	1450.5	2.5°
5°	1471.8	1476.0	1484.2	1484.2	1485.0	1482.5	1487.4	1490.7	1486.6	1485.0	1485.8	5°
7.5°	1531.8	1538.3	1544.9	1551.5	1556.4	1553.9	1554.8	1547.4	1545.7	1540.0	1532.6	7.5°
10°	1590.1	1608.1	1620.4	1631.9	1632.7	1630.3	1631.1	1618.8	1616.3	1604.8	1597.4	10°
12.5°	1650.0	1673.0	1692.7	1705.0	1712.4	1714.0	1714.8	1714.8	1703.3	1693.5	1676.2	12.5°
15°	1738.6	1778.9	1809.2	1822.4	1833.0	1842.9	1845.3	1848.6	1839.6	1826.5	1824.0	15°
17.5°	1879.0	1916.8	1957.0	1992.3	2016.1	2017.7	2038.3	2036.6	2055.5	2040.7	2036.6	17.5°
20°	2045.6	2127.7	2169.6	2216.4	2243.5	2256.6	2304.2	2289.4	2303.4	2327.2	2303.4	20°
22.5°	2254.1	2358.4	2419.1	2483.2	2527.5	2559.5	2594.0	2621.1	2658.8	2676.9	2660.5	22.5°
25°	2530.8	2649.8	2722.1	2810.7	2881.3	2938.8	2998.7	3070.9	3070.1	3113.6	3144.0	25°
27.5°	2848.5	3000.3	3105.4	3261.4	3322.1	3419.0	3521.6	3633.2	3652.9	3709.6	3738.3	27.5°
30°	3147.3	3335.3	3543.8	3729.3	3939.4	4083.1	4202.1	4280.9	4399.9	4370.4	4354.0	30°
32.5°	3423.1	3673.5	3970.6	4275.2	4608.4	4835.8	5046.0	5143.7	5217.5	5060.8	4853.1	32.5°
35°	3781.0	4080.6	4420.5	4796.4	5220.0	5542.6	5759.3	5789.7	5747.8	5546.7	5202.8	35°
37.5°	4224.3	4538.7	4925.3	5322.6	5772.5	6075.4	6322.5	6366.8	6256.0	5897.2	5536.0	37.5°
40°	4661.8	5030.4	5449.9	5920.2	6386.5	6719.8	6967.7	6980.8	6800.2	6380.7	5958.0	40°
42.5°	5140.4	5543.4	6010.5	6531.8	7013.6	7351.0	7530.0	7586.6	7331.3	6793.6	6388.1	42.5°
45°	5553.3	6035.1	6555.6	7109.7	7613.7	7933.8	8116.1	8098.0	7789.4	7258.3	6783.0	45°
47.5°	5955.5	6485.8	7034.2	7622.7	8123.5	8446.9	8634.1	8617.6	8226.1	7614.5	7091.6	47.5°
50°	6313.4	6888.9	7475.0	8103.8	8602.9	8899.2	9128.2	9056.0	8561.0	7901.0	7290.3	50°
52.5°	6562.1	7204.1	7816.5	8496.2	9010.0	9290.8	9582.2	9349.9	8758.8	8076.7	7397.0	52.5°
55°	6719.8	7420.8	8059.4	8811.4	9316.2	9652.0	9839.9	9509.9	8835.2	8125.1	7433.9	55°
57.5°	6826.5	7539.8	8202.3	8993.6	9592.0	9873.6	9919.6	9515.7	8785.9	8048.8	7397.0	57.5°
60°	6879.0	7575.1	8267.1	9121.7	9785.8	9940.1	9856.4	9382.7	8616.0	7824.7	7158.9	60°
62.5°	6873.3	7530.8	8233.5	9164.4	9824.3	9844.0	9653.6	9156.1	8303.2	7354.3	6763.3	62.5°
65°	6727.1	7369.1	8043.8	9005.9	9644.6	9560.0	9320.3	8730.9	7695.0	6740.3	6441.5	65°
67.5°	6306.0	6921.7	7548.0	8487.1	9138.1	9056.0	8693.2	7895.3	6988.2	6196.9	6036.0	67.5°
70°	5601.7	6123.8	6673.8	7498.8	8181.8	8070.9	7436.4	6951.2	6288.0	5568.9	5513.1	70°
72.5°	4683.1	5078.8	5477.8	6091.8	6562.1	6335.6	5936.6	5911.2	5375.2	4826.0	4837.5	72.5°
75°	3662.8	3959.9	4146.3	4507.5	4820.2	4617.5	4641.3	4782.5	4606.0	4173.4	4033.0	75°
77.5°	2653.9	2938.8	2997.9	3212.1	3432.1	3662.8	3968.2	4300.6	4356.4	4113.5	3604.5	77.5°
80°	1737.0	2050.6	1934.0	2010.3	2319.8	2740.9	3298.3	3845.8	4033.8	3815.5	3189.1	80°
82.5°	1024.5	1463.6	1278.1	1408.6	1604.8	1971.8	2356.8	2769.7	3084.1	2851.8	2663.8	82.5°
85°	778.2	1154.2	1222.3	1380.7	1444.8	1460.4	1527.7	1662.3	1824.8	1885.6	1880.6	85°
87.5°	405.5	897.2	1007.2	931.7	869.3	753.6	587.8	632.9	578.7	791.3	749.5	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°



IUMBER: P159101

NUMBER: VST-E04-LED-E-U-SLR-7050

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
1371.7	1371.7	1371.7	1371.7	1371.7	1371.7	1371.7
1451.3	1448.9	1450.5	1451.3	1451.3	1451.3	1453.0
1485.0	1478.4	1476.0	1476.0	1475.1	1472.7	1471.8
1521.1	1509.6	1505.5	1500.6	1496.5	1494.0	1489.9
1585.9	1576.1	1555.6	1544.1	1533.4	1526.0	1519.5
1673.0	1659.0	1639.3	1624.5	1608.1	1603.2	1595.0
1807.6	1795.3	1778.0	1761.6	1751.8	1734.5	1722.2
2017.7	1993.1	1975.9	1954.5	1930.7	1895.4	1878.2
2294.4	2245.1	2210.6	2191.8	2144.1	2138.4	2096.5
2612.1	2597.3	2544.7	2521.8	2475.8	2457.7	2392.1
3087.3	3075.9	2968.3	2956.8	2886.2	2833.7	2731.9
3712.0	3617.6	3496.1	3411.6	3290.9	3155.5	2982.3
4257.9	4065.0	3879.5	3682.5	3515.8	3321.3	3125.1
4606.0	4347.4	4108.5	3906.6	3700.5	3469.1	3217.0
4911.4	4650.3	4390.1	4151.2	3901.7	3605.3	3294.2
5276.6	5017.2	4724.2	4388.4	4068.3	3705.5	3325.4
5651.0	5347.2	4981.1	4569.9	4167.6	3754.7	3319.7
6034.3	5646.0	5159.3	4690.5	4230.8	3762.1	3281.1
6345.4	5854.5	5291.4	4752.1	4244.0	3736.7	3232.6
6565.4	5988.4	5350.5	4773.4	4227.6	3696.4	3167.0
6691.0	6061.4	5365.3	4757.8	4193.9	3639.0	3095.6
6737.0	6083.6	5350.5	4725.8	4163.5	3577.4	3045.5
6732.1	6071.3	5296.3	4651.1	4082.3	3495.3	2983.9
6639.3	5957.2	5185.5	4561.7	4013.3	3457.6	2988.0
6481.7	5884.9	5152.7	4579.7	4049.4	3538.8	3117.7
6410.3	6029.4	5337.4	4760.3	4234.9	3771.1	3385.3
6370.1	6264.2	5601.7	4954.9	4454.9	4052.7	3704.7
6205.9	6331.5	5751.9	5065.7	4651.1	4335.1	4024.0
5940.7	6174.7	5637.8	5044.3	4759.5	4551.8	4138.9
5387.5	5634.6	5129.7	4729.9	4624.0	4555.1	3966.5
4364.6	4492.7	4205.4	4115.1	4154.5	4155.3	3327.0
3218.7	3141.5	3011.8	3018.4	3283.5	3242.5	2371.5
2627.7	2150.7	1966.8	2036.6	2364.1	2187.7	1489.9
2445.4	1918.4	1583.5	1599.9	1785.4	1409.5	897.2
1977.5	1748.5	1402.1	1258.4	1221.5	939.1	609.1
827.5	761.0	566.4	510.6	418.7	256.1	116.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)