

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: P159100

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

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P159100  
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  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR RIGHT  
Light Source: (84) 4000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 10749.1 lumens  
Efficiency: N/A  
Efficacy: 110.6 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

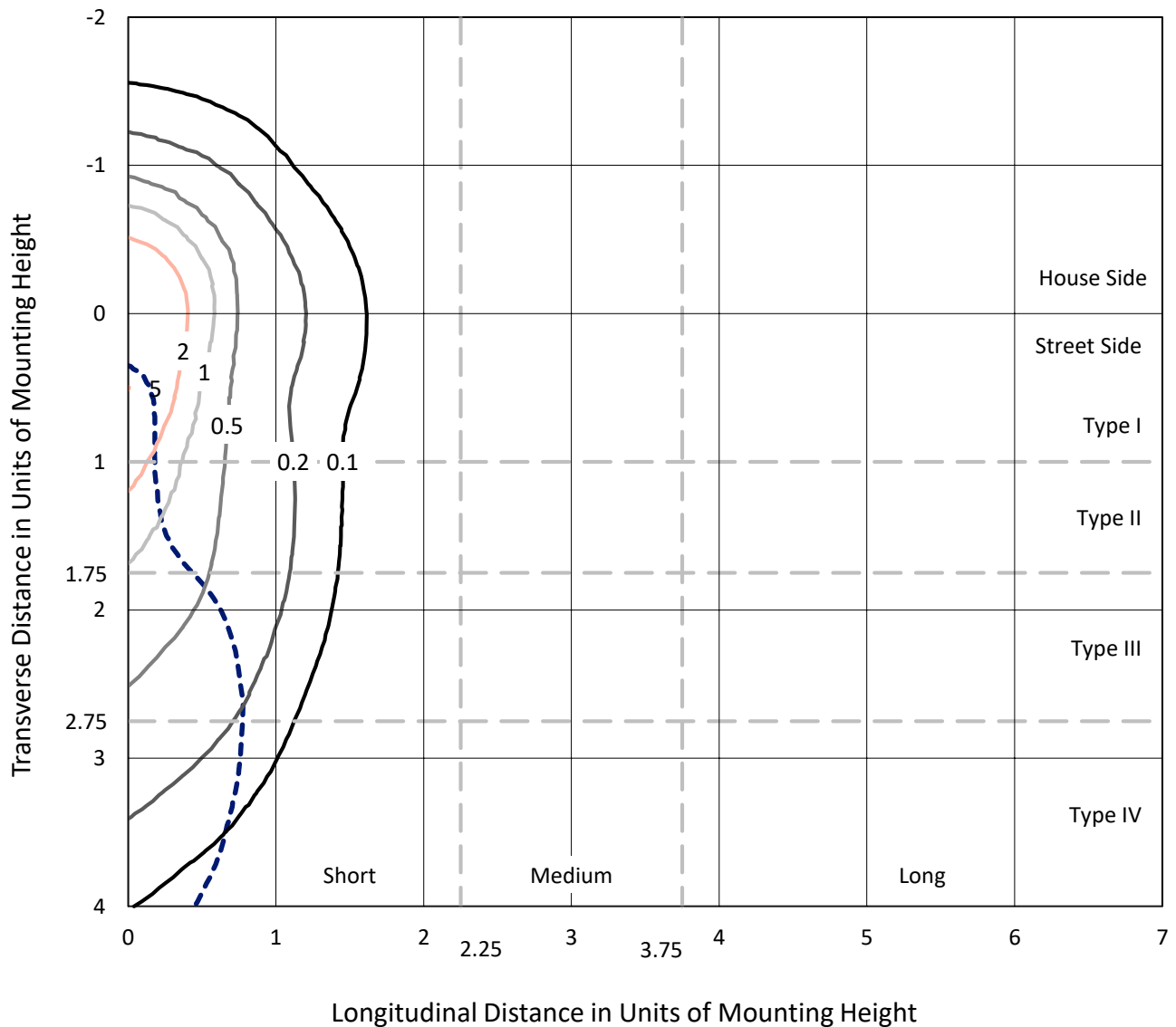


REPORT NUMBER: P159100

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

### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

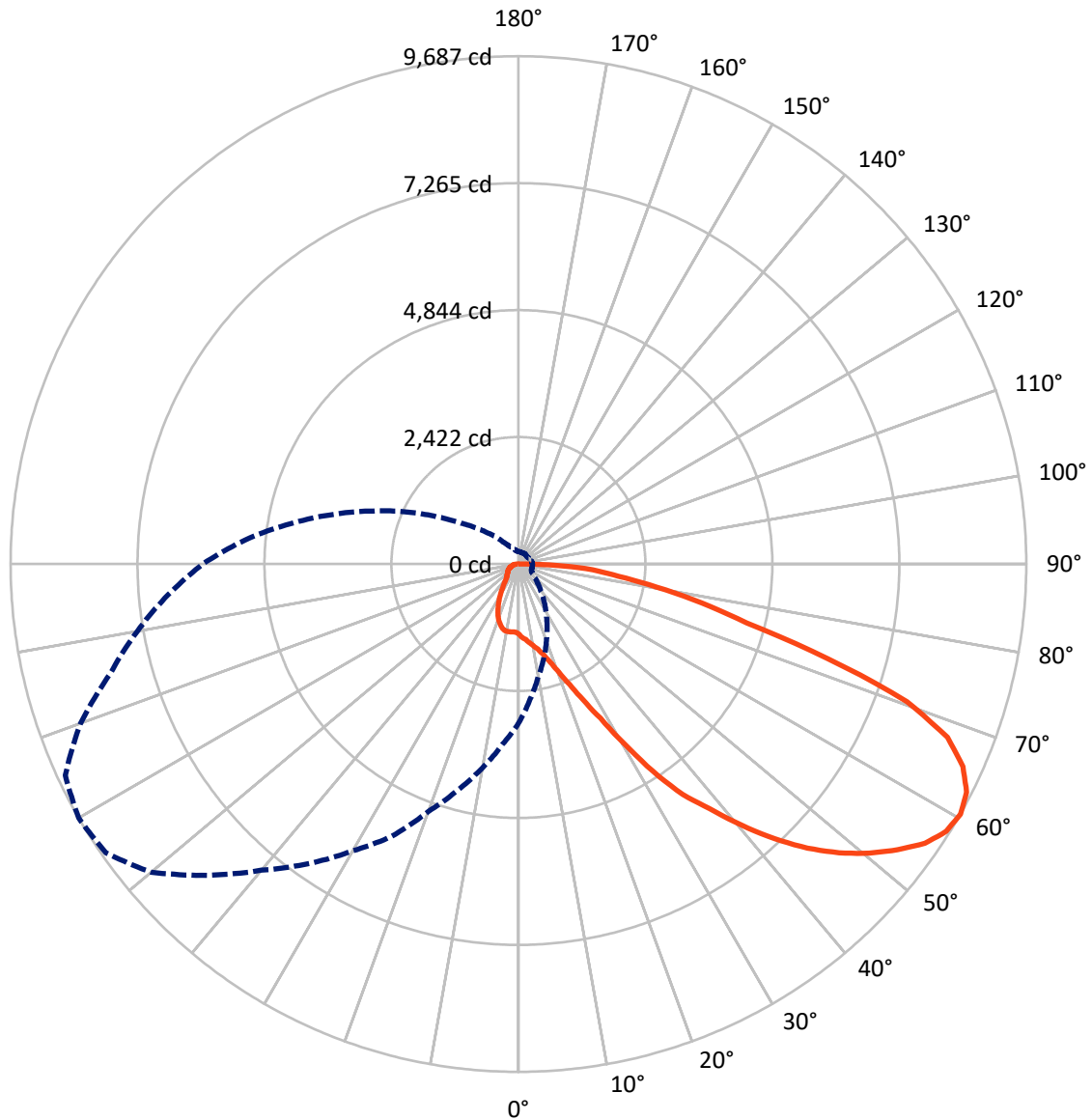


Based on 20 foot mounting height. Maximum calculated value = 5 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P159100

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

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P159100

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

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2420.4	0.0	2420.4
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	8328.8	0.0	8328.8
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	10749.1	0.0	10749.1
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	131.9	1.2
10°-20°	425.8	4.0
20°-30°	808.0	7.5
30°-40°	1272.5	11.8
40°-50°	1776.1	16.5
50°-60°	2196.7	20.4
60°-70°	2277.0	21.2
70°-80°	1432.8	13.3
80°-90°	428.3	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°	10749.1	100.0
0°-180°	10749.1	100.0



REPORT NUMBER: P159100

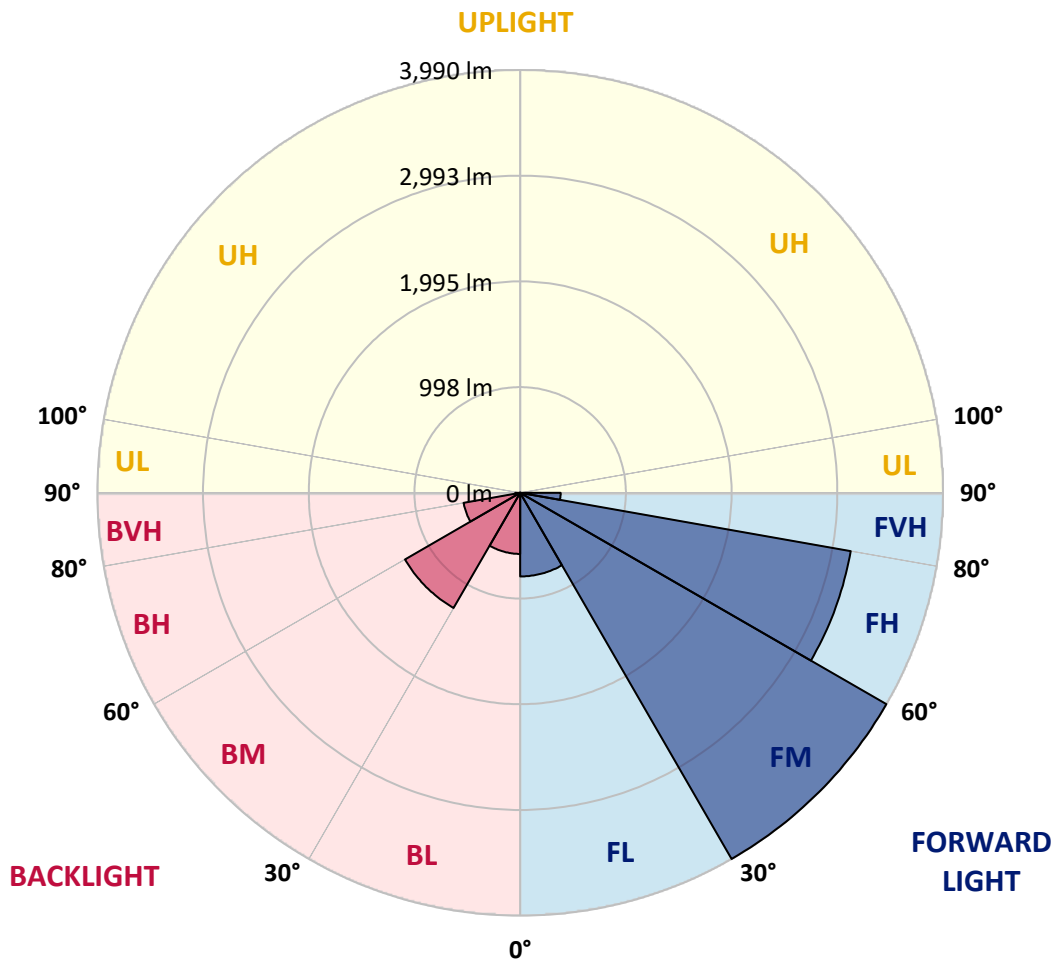
CATALOG NUMBER: VST-E04-LED-E-U-SLR

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	789.1	7.3			
FM	(30°-60°)	3990.2	37.1			
FH	(60°-80°)	3167.7	29.5			G2/5000
FVH	(80°-90°)	381.7	3.6			G3/500
BL	(0°-30°)	576.6	5.4	B2/1000		
BM	(30°-60°)	1255.1	11.7	B2/2500		
BH	(60°-80°)	542.1	5.0	B2/1000		G2/1000
BVH	(80°-90°)	46.6	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





REPORT NUMBER: P159100

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

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8
2.5°	1416.0	1331.2	1332.8	1330.4	1330.4	1328.8	1330.4	1328.8	1327.2	1327.2	1328.0
5°	1434.4	1340.8	1340.8	1338.4	1336.8	1335.2	1336.8	1335.2	1334.4	1332.8	1333.6
7.5°	1452.0	1346.4	1343.2	1340.0	1336.0	1337.6	1337.6	1336.8	1337.6	1336.8	1338.4
10°	1480.8	1364.8	1356.8	1349.6	1348.8	1347.2	1347.2	1344.8	1344.8	1343.2	1344.0
12.5°	1554.4	1421.6	1412.8	1400.0	1397.6	1390.4	1386.4	1381.6	1373.6	1366.4	1360.8
15°	1678.4	1516.0	1499.2	1488.0	1483.2	1468.8	1446.4	1428.8	1405.6	1385.6	1364.8
17.5°	1830.4	1642.4	1622.4	1608.0	1584.0	1544.8	1507.2	1464.0	1419.2	1378.4	1340.8
20°	2043.2	1824.0	1784.8	1750.4	1690.4	1623.2	1552.8	1477.6	1408.8	1344.8	1289.6
22.5°	2331.2	2058.4	1985.6	1893.6	1782.4	1668.8	1556.8	1452.8	1360.8	1277.6	1204.0
25°	2662.4	2282.4	2151.2	1992.8	1822.4	1665.6	1518.4	1384.8	1277.6	1170.4	1090.4
27.5°	2906.4	2469.6	2276.0	2068.0	1850.4	1650.4	1469.6	1308.0	1178.4	1068.8	972.0
30°	3045.6	2576.8	2344.0	2100.0	1855.2	1624.8	1408.0	1220.8	1071.2	940.8	848.0
32.5°	3135.2	2634.4	2351.2	2068.0	1797.6	1548.8	1314.4	1120.0	957.6	818.4	720.0
35°	3210.4	2657.6	2317.6	1996.8	1688.8	1433.6	1194.4	1000.0	828.0	700.0	599.2
37.5°	3240.8	2653.6	2264.0	1901.6	1582.4	1308.0	1072.0	872.8	719.2	606.4	520.0
40°	3235.2	2616.8	2191.2	1800.0	1457.6	1176.8	942.4	767.2	642.4	547.2	484.0
42.5°	3197.6	2568.0	2110.4	1696.8	1343.2	1068.0	854.4	699.2	598.4	526.4	471.2
45°	3150.4	2509.6	2036.8	1602.4	1252.8	990.4	803.2	680.0	592.8	524.0	464.8
47.5°	3086.4	2444.8	1962.4	1535.2	1204.8	967.2	802.4	691.2	597.6	518.4	453.6
50°	3016.8	2397.6	1921.6	1506.4	1199.2	981.6	830.4	708.8	600.8	512.8	438.4
52.5°	2968.0	2376.8	1920.8	1516.8	1228.8	1021.6	863.2	731.2	612.8	516.0	435.2
55°	2908.0	2373.6	1941.6	1561.6	1293.6	1089.6	915.2	769.6	637.6	528.0	437.6
57.5°	2912.0	2436.8	2022.4	1672.0	1410.4	1181.6	981.6	816.8	661.6	535.2	433.6
60°	3038.4	2584.0	2181.6	1860.8	1563.2	1289.6	1049.6	842.4	660.0	519.2	414.4
62.5°	3299.2	2804.8	2420.0	2082.4	1718.4	1372.8	1074.4	835.2	636.0	484.8	383.2
65°	3610.4	3063.2	2652.0	2254.4	1812.8	1392.0	1052.8	795.2	588.0	440.0	345.6
67.5°	3921.6	3246.4	2785.6	2303.2	1774.4	1314.4	972.8	705.6	506.4	379.2	303.2
70°	4033.6	3284.0	2775.2	2193.6	1600.0	1121.6	800.8	568.0	406.4	310.4	255.2
72.5°	3865.6	3048.8	2467.2	1864.0	1300.8	869.6	587.2	419.2	310.4	243.2	208.0
75°	3242.4	2455.2	1950.4	1404.0	939.2	615.2	424.0	305.6	233.6	192.8	166.4
77.5°	2311.2	1709.6	1328.8	922.4	609.6	426.4	304.0	229.6	185.6	154.4	135.2
80°	1452.0	1049.6	809.6	553.6	380.0	289.6	218.4	181.6	149.6	125.6	112.8
82.5°	874.4	611.2	476.8	344.0	249.6	198.4	160.8	142.4	119.2	104.0	96.8
85°	593.6	449.6	312.8	203.2	150.4	116.8	109.6	98.4	88.8	74.4	72.0
87.5°	113.6	160.8	140.0	83.2	55.2	47.2	41.6	40.0	36.0	28.8	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



REPORT NUMBER: P159100

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

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8
2.5°	1323.2	1321.6	1318.4	1318.4	1316.0	1311.2	1310.4	1307.2	1303.2	1304.0	1303.2
5°	1328.0	1324.8	1320.8	1319.2	1316.0	1311.2	1308.8	1304.8	1300.8	1300.8	1300.8
7.5°	1333.6	1329.6	1326.4	1320.8	1314.4	1309.6	1303.2	1298.4	1296.0	1295.2	1296.0
10°	1338.4	1336.0	1331.2	1323.2	1314.4	1304.8	1298.4	1292.0	1285.6	1286.4	1287.2
12.5°	1348.8	1340.8	1328.0	1316.0	1302.4	1290.4	1279.2	1271.2	1263.2	1263.2	1264.0
15°	1341.6	1318.4	1300.8	1277.6	1262.4	1243.2	1230.4	1223.2	1218.4	1216.8	1217.6
17.5°	1299.2	1271.2	1244.8	1224.0	1203.2	1188.0	1182.4	1177.6	1171.2	1174.4	1171.2
20°	1235.2	1200.8	1163.2	1138.4	1113.6	1103.2	1093.6	1088.8	1084.8	1099.2	1099.2
22.5°	1143.2	1101.6	1063.2	1032.8	1004.8	993.6	984.0	978.4	980.8	998.4	1000.0
25°	1027.2	976.8	926.4	908.0	880.0	871.2	865.6	864.8	867.2	884.8	888.8
27.5°	904.0	851.2	808.0	765.6	752.8	745.6	735.2	747.2	749.6	768.8	776.8
30°	772.8	716.0	670.4	642.4	615.2	619.2	610.4	624.8	631.2	651.2	657.6
32.5°	638.4	584.8	539.2	511.2	492.0	494.4	488.0	500.8	507.2	531.2	543.2
35°	528.0	482.4	445.6	421.6	412.8	404.0	402.4	404.0	410.4	428.8	450.4
37.5°	464.8	427.2	400.8	383.2	371.2	365.6	362.4	362.4	362.4	366.4	376.8
40°	437.6	404.0	380.8	364.0	356.0	352.8	350.4	348.0	344.0	342.4	343.2
42.5°	425.6	387.2	362.4	349.6	344.8	344.8	344.8	343.2	339.2	335.2	331.2
45°	413.6	372.0	347.2	338.4	336.0	336.8	336.8	336.8	333.6	328.8	321.6
47.5°	398.4	355.2	330.4	324.8	324.8	327.2	328.0	328.0	324.8	320.0	314.4
50°	380.0	333.6	311.2	306.4	304.0	304.0	304.0	304.0	301.6	298.4	294.4
52.5°	370.4	321.6	298.4	293.6	293.6	291.2	290.4	288.0	285.6	283.2	277.6
55°	367.2	316.8	292.8	288.8	288.8	286.4	284.0	281.6	277.6	273.6	268.0
57.5°	358.4	306.4	285.6	282.4	282.4	280.8	278.4	276.0	272.0	266.4	259.2
60°	338.4	288.8	271.2	270.4	270.4	269.6	268.0	268.0	264.0	258.4	249.6
62.5°	312.8	270.4	253.6	253.6	252.8	252.0	248.8	248.0	243.2	236.0	228.0
65°	288.0	254.4	243.2	240.0	238.4	236.0	234.4	230.4	226.4	220.0	212.0
67.5°	256.8	230.4	223.2	220.0	216.8	214.4	212.0	209.6	204.8	200.0	193.6
70°	223.2	204.0	200.0	199.2	195.2	192.8	192.0	189.6	184.8	180.0	172.0
72.5°	191.2	180.0	176.8	176.8	172.0	168.8	167.2	166.4	163.2	159.2	152.0
75°	154.4	146.4	145.6	149.6	149.6	147.2	145.6	147.2	142.4	140.0	132.8
77.5°	126.4	122.4	120.0	121.6	126.4	124.0	120.8	120.8	120.8	116.8	114.4
80°	107.2	104.0	101.6	103.2	102.4	101.6	100.0	96.8	96.8	96.8	96.0
82.5°	96.8	96.0	87.2	87.2	84.0	81.6	80.0	78.4	76.8	76.8	80.8
85°	72.8	75.2	70.4	69.6	65.6	62.4	59.2	57.6	56.0	58.4	66.4
87.5°	35.2	35.2	33.6	37.6	34.4	32.8	30.4	28.8	30.4	37.6	44.8
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: P159100

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

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8
2.5°	1301.6	1300.8	1300.0	1298.4	1295.2	1294.4	1292.8	1292.8	1292.0	1290.4	1292.0
5°	1299.2	1300.8	1300.8	1300.0	1297.6	1299.2	1299.2	1301.6	1301.6	1303.2	1307.2
7.5°	1296.0	1300.0	1303.2	1305.6	1308.8	1311.2	1316.0	1323.2	1326.4	1332.0	1334.4
10°	1289.6	1296.8	1302.4	1309.6	1317.6	1326.4	1333.6	1344.8	1348.8	1356.8	1360.8
12.5°	1271.2	1283.2	1292.8	1307.2	1320.8	1334.4	1347.2	1361.6	1368.8	1377.6	1383.2
15°	1226.4	1240.0	1253.6	1266.4	1290.4	1316.8	1337.6	1356.8	1367.2	1378.4	1384.0
17.5°	1172.8	1181.6	1192.8	1209.6	1232.8	1256.0	1289.6	1316.8	1332.8	1345.6	1347.2
20°	1110.4	1123.2	1131.2	1137.6	1156.0	1172.0	1208.0	1239.2	1260.0	1275.2	1279.2
22.5°	1015.2	1028.8	1042.4	1047.2	1061.6	1082.4	1102.4	1136.0	1165.6	1188.0	1201.6
25°	906.4	919.2	937.6	952.0	955.2	972.0	992.0	1030.4	1060.8	1096.8	1112.8
27.5°	797.6	808.8	828.8	836.8	846.4	863.2	879.2	911.2	943.2	984.8	1002.4
30°	670.4	694.4	717.6	732.8	740.8	760.8	772.0	803.2	832.8	863.2	888.8
32.5°	561.6	583.2	609.6	628.8	638.4	653.6	671.2	697.6	720.8	750.4	780.0
35°	461.6	491.2	508.8	525.6	550.4	557.6	575.2	599.2	612.8	644.8	678.4
37.5°	391.2	408.8	426.4	443.2	464.0	473.6	490.4	510.4	526.4	545.6	576.0
40°	348.0	357.6	370.4	381.6	396.8	408.8	417.6	434.4	446.4	465.6	487.2
42.5°	328.0	330.4	332.0	340.0	348.0	356.0	365.6	372.8	387.2	401.6	415.2
45°	316.8	312.0	309.6	310.4	313.6	318.4	326.4	334.4	344.0	352.8	360.8
47.5°	307.2	300.8	293.6	289.6	290.4	292.0	298.4	304.8	309.6	316.8	320.0
50°	284.8	279.2	272.8	267.2	268.0	268.8	274.4	279.2	282.4	284.8	288.8
52.5°	270.4	262.4	256.8	251.2	250.4	252.8	257.6	262.4	264.0	265.6	266.4
55°	260.0	252.0	244.8	239.2	236.8	242.4	244.0	250.4	252.8	252.8	253.6
57.5°	252.0	242.4	235.2	229.6	225.6	229.6	233.6	240.8	241.6	240.0	240.0
60°	240.0	232.8	225.6	220.0	216.0	219.2	222.4	230.4	230.4	226.4	225.6
62.5°	219.2	215.2	210.4	208.0	207.2	210.4	212.8	219.2	216.8	212.0	210.4
65°	204.0	200.8	196.0	194.4	193.6	198.4	199.2	203.2	200.0	197.6	196.8
67.5°	185.6	183.2	180.8	180.0	177.6	177.6	179.2	181.6	180.0	180.0	180.8
70°	164.8	161.6	159.2	160.0	158.4	158.4	159.2	160.8	160.0	161.6	163.2
72.5°	145.6	141.6	140.8	140.8	139.2	140.0	140.0	140.8	142.4	143.2	147.2
75°	127.2	123.2	123.2	122.4	122.4	122.4	123.2	124.8	126.4	127.2	128.8
77.5°	110.4	108.0	108.8	108.0	108.0	108.0	108.0	110.4	111.2	112.0	114.4
80°	95.2	95.2	96.0	96.0	95.2	94.4	95.2	96.8	97.6	98.4	99.2
82.5°	86.4	87.2	87.2	87.2	83.2	81.6	84.0	85.6	87.2	88.0	89.6
85°	74.4	71.2	74.4	73.6	68.0	67.2	67.2	68.0	69.6	68.0	68.0
87.5°	48.0	43.2	45.6	45.6	40.0	32.8	41.6	44.8	40.0	42.4	42.4
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: P159100

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

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8
2.5°	1294.4	1292.8	1293.6	1293.6	1295.2	1292.8	1296.0	1299.2	1300.0	1300.0	1300.8
5°	1311.2	1309.6	1315.2	1312.8	1318.4	1317.6	1321.6	1324.8	1326.4	1326.4	1326.4
7.5°	1337.6	1343.2	1346.4	1355.2	1356.0	1360.8	1364.8	1368.8	1367.2	1368.0	1367.2
10°	1367.2	1374.4	1382.4	1391.2	1392.0	1397.6	1404.0	1408.0	1406.4	1405.6	1403.2
12.5°	1392.8	1397.6	1407.2	1416.0	1420.8	1429.6	1436.0	1439.2	1439.2	1436.8	1434.4
15°	1391.2	1398.4	1408.8	1421.6	1430.4	1443.2	1454.4	1461.6	1462.4	1460.0	1459.2
17.5°	1356.0	1366.4	1376.0	1393.6	1409.6	1427.2	1445.6	1456.0	1465.6	1471.2	1474.4
20°	1292.8	1305.6	1319.2	1342.4	1364.0	1387.2	1408.8	1424.0	1438.4	1455.2	1475.2
22.5°	1218.4	1237.6	1256.8	1286.4	1312.8	1339.2	1364.0	1382.4	1404.8	1433.6	1471.2
25°	1131.2	1151.2	1175.2	1209.6	1243.2	1281.6	1318.4	1355.2	1398.4	1448.0	1506.4
27.5°	1028.0	1050.4	1081.6	1123.2	1161.6	1200.8	1258.4	1316.8	1387.2	1451.2	1517.6
30°	925.6	954.4	988.0	1029.6	1068.0	1124.0	1181.6	1253.6	1328.0	1400.0	1479.2
32.5°	815.2	851.2	892.8	927.2	970.4	1027.2	1084.8	1161.6	1240.8	1325.6	1412.8
35°	708.8	743.2	776.0	814.4	857.6	911.2	967.2	1040.8	1140.8	1231.2	1335.2
37.5°	600.8	632.8	656.0	686.4	724.0	783.2	843.2	928.0	1022.4	1133.6	1237.6
40°	506.4	532.8	559.2	583.2	615.2	671.2	735.2	818.4	911.2	1019.2	1135.2
42.5°	431.2	451.2	480.0	508.8	536.0	584.0	644.0	725.6	817.6	928.0	1044.0
45°	368.0	381.6	404.8	428.8	462.4	502.4	560.0	643.2	736.8	848.0	970.4
47.5°	322.4	328.8	344.8	369.6	400.8	440.0	489.6	564.8	656.0	768.0	896.8
50°	291.2	298.4	306.4	327.2	355.2	395.2	436.0	501.6	584.8	694.4	822.4
52.5°	269.6	272.8	276.0	288.8	314.4	348.0	391.2	440.8	524.8	629.6	744.8
55°	256.8	257.6	260.0	266.4	285.6	316.8	354.4	401.6	467.2	566.4	684.0
57.5°	241.6	243.2	245.6	249.6	261.6	289.6	321.6	360.0	414.4	497.6	610.4
60°	227.2	231.2	235.2	237.6	244.0	260.8	288.0	318.4	362.4	424.8	514.4
62.5°	212.0	216.8	220.0	222.4	224.8	235.2	255.2	275.2	302.4	343.2	410.4
65°	198.4	201.6	204.0	205.6	207.2	210.4	219.2	227.2	235.2	260.0	308.8
67.5°	183.2	184.8	185.6	186.4	185.6	185.6	186.4	189.6	192.8	202.4	225.6
70°	165.6	168.0	168.0	168.8	168.8	166.4	166.4	166.4	166.4	168.8	181.6
72.5°	148.8	152.0	152.0	152.8	152.0	151.2	151.2	151.2	153.6	155.2	160.0
75°	132.8	136.0	135.2	136.0	136.8	136.8	138.4	139.2	141.6	142.4	145.6
77.5°	116.8	119.2	120.0	119.2	120.8	122.4	125.6	127.2	128.0	128.8	129.6
80°	101.6	103.2	102.4	100.0	104.0	106.4	111.2	116.8	115.2	116.0	117.6
82.5°	84.0	81.6	80.0	81.6	84.0	87.2	92.0	99.2	100.0	104.0	103.2
85°	64.8	57.6	56.8	60.8	60.0	64.0	72.0	77.6	82.4	86.4	82.4
87.5°	38.4	34.4	28.8	27.2	29.6	39.2	40.8	49.6	53.6	55.2	49.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159100

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

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8
2.5°	1373.6	1377.6	1377.6	1379.2	1381.6	1382.4	1385.6	1391.2	1392.0	1392.0	1394.4
5°	1399.2	1403.2	1403.2	1406.4	1407.2	1411.2	1415.2	1421.6	1424.8	1424.0	1434.4
7.5°	1440.8	1437.6	1435.2	1440.0	1442.4	1447.2	1455.2	1460.8	1466.4	1475.2	1489.6
10°	1476.0	1471.2	1468.8	1472.0	1473.6	1479.2	1484.0	1492.0	1505.6	1519.2	1536.8
12.5°	1504.8	1499.2	1492.8	1494.4	1496.8	1504.0	1512.0	1522.4	1542.4	1560.0	1586.4
15°	1528.8	1520.8	1514.4	1517.6	1523.2	1532.8	1546.4	1564.8	1597.6	1628.0	1663.2
17.5°	1552.0	1550.4	1548.0	1558.4	1562.4	1584.8	1604.8	1638.4	1683.2	1728.8	1779.2
20°	1574.4	1592.0	1600.8	1621.6	1634.4	1664.8	1695.2	1736.0	1792.8	1855.2	1924.0
22.5°	1605.6	1653.6	1683.2	1725.6	1747.2	1780.0	1824.8	1878.4	1941.6	2021.6	2109.6
25°	1680.0	1750.4	1809.6	1876.0	1930.4	1980.8	2034.4	2099.2	2190.4	2263.2	2378.4
27.5°	1712.8	1812.0	1900.8	1994.4	2076.0	2153.6	2238.4	2316.8	2424.8	2523.2	2662.4
30°	1681.6	1793.6	1908.8	2031.2	2150.4	2268.0	2391.2	2511.2	2636.0	2773.6	2921.6
32.5°	1624.0	1749.6	1879.2	2023.2	2171.2	2324.0	2484.0	2658.4	2834.4	3005.6	3156.8
35°	1565.6	1700.8	1844.8	2009.6	2184.0	2373.6	2572.0	2792.8	3025.6	3242.4	3440.0
37.5°	1480.8	1629.6	1794.4	1984.8	2192.0	2425.6	2680.8	2952.8	3247.2	3545.6	3804.8
40°	1378.4	1536.0	1716.0	1935.2	2184.0	2479.2	2811.2	3160.0	3538.4	3902.4	4220.8
42.5°	1284.8	1438.4	1630.4	1868.8	2163.2	2526.4	2935.2	3369.6	3817.6	4224.8	4640.8
45°	1202.4	1372.0	1564.8	1822.4	2152.8	2566.4	3027.2	3526.4	4039.2	4524.0	5015.2
47.5°	1127.2	1303.2	1519.2	1796.8	2148.0	2590.4	3091.2	3628.8	4196.8	4753.6	5324.0
50°	1049.6	1220.8	1452.0	1768.8	2136.0	2589.6	3124.8	3698.4	4307.2	4932.0	5536.8
52.5°	966.4	1138.4	1370.4	1717.6	2110.4	2575.2	3133.6	3745.6	4394.4	5041.6	5717.6
55°	890.4	1051.2	1283.2	1632.0	2056.8	2540.0	3113.6	3765.6	4456.0	5150.4	5844.8
57.5°	803.2	970.4	1191.2	1514.4	1956.0	2477.6	3056.8	3737.6	4473.6	5223.2	5945.6
60°	683.2	847.2	1074.4	1375.2	1798.4	2345.6	2951.2	3652.8	4417.6	5236.0	6017.6
62.5°	545.6	687.2	906.4	1183.2	1576.8	2138.4	2756.0	3462.4	4243.2	5116.0	5980.8
65°	405.6	500.0	688.8	932.0	1320.0	1826.4	2441.6	3143.2	3902.4	4782.4	5749.6
67.5°	282.4	350.4	466.4	647.2	960.0	1410.4	1992.8	2644.8	3375.2	4164.8	5269.6
70°	213.6	244.8	308.0	408.8	621.6	960.8	1448.8	2029.6	2707.2	3468.0	4508.8
72.5°	182.4	198.4	233.6	280.0	380.8	584.0	909.6	1396.8	1997.6	2616.8	3459.2
75°	164.0	177.6	200.0	229.6	269.6	354.4	533.6	884.0	1323.2	1752.8	2413.6
77.5°	148.8	160.8	180.8	196.0	217.6	255.2	340.0	528.8	792.8	1083.2	1497.6
80°	132.8	140.0	158.4	173.6	190.4	212.0	244.0	332.0	455.2	641.6	883.2
82.5°	113.6	119.2	132.8	153.6	166.4	175.2	184.8	220.0	272.8	348.0	490.4
85°	88.0	92.0	104.0	119.2	124.8	125.6	127.2	136.8	169.6	260.8	422.4
87.5°	44.8	49.6	62.4	67.2	56.8	61.6	62.4	66.4	88.0	143.2	145.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P159100  
 CATALOG NUMBER: VST-E04-LED-E-U-SLR

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	0°
2.5°	1394.4	1396.8	1402.4	1401.6	1405.6	1405.6	1405.6	1409.6	1407.2	1409.6	1413.6	2.5°
5°	1434.4	1438.4	1446.4	1446.4	1447.2	1444.8	1449.6	1452.8	1448.8	1447.2	1448.0	5°
7.5°	1492.8	1499.2	1505.6	1512.0	1516.8	1514.4	1515.2	1508.0	1506.4	1500.8	1493.6	7.5°
10°	1549.6	1567.2	1579.2	1590.4	1591.2	1588.8	1589.6	1577.6	1575.2	1564.0	1556.8	10°
12.5°	1608.0	1630.4	1649.6	1661.6	1668.8	1670.4	1671.2	1671.2	1660.0	1650.4	1633.6	12.5°
15°	1694.4	1733.6	1763.2	1776.0	1786.4	1796.0	1798.4	1801.6	1792.8	1780.0	1777.6	15°
17.5°	1831.2	1868.0	1907.2	1941.6	1964.8	1966.4	1986.4	1984.8	2003.2	1988.8	1984.8	17.5°
20°	1993.6	2073.6	2114.4	2160.0	2186.4	2199.2	2245.6	2231.2	2244.8	2268.0	2244.8	20°
22.5°	2196.8	2298.4	2357.6	2420.0	2463.2	2494.4	2528.0	2554.4	2591.2	2608.8	2592.8	22.5°
25°	2466.4	2582.4	2652.8	2739.2	2808.0	2864.0	2922.4	2992.8	2992.0	3034.4	3064.0	25°
27.5°	2776.0	2924.0	3026.4	3178.4	3237.6	3332.0	3432.0	3540.8	3560.0	3615.2	3643.2	27.5°
30°	3067.2	3250.4	3453.6	3634.4	3839.2	3979.2	4095.2	4172.0	4288.0	4259.2	4243.2	30°
32.5°	3336.0	3580.0	3869.6	4166.4	4491.2	4712.8	4917.6	5012.8	5084.8	4932.0	4729.6	32.5°
35°	3684.8	3976.8	4308.0	4674.4	5087.2	5401.6	5612.8	5642.4	5601.6	5405.6	5070.4	35°
37.5°	4116.8	4423.2	4800.0	5187.2	5625.6	5920.8	6161.6	6204.8	6096.8	5747.2	5395.2	37.5°
40°	4543.2	4902.4	5311.2	5769.6	6224.0	6548.8	6790.4	6803.2	6627.2	6218.4	5806.4	40°
42.5°	5009.6	5402.4	5857.6	6365.6	6835.2	7164.0	7338.4	7393.6	7144.8	6620.8	6225.6	42.5°
45°	5412.0	5881.6	6388.8	6928.8	7420.0	7732.0	7909.6	7892.0	7591.2	7073.6	6610.4	45°
47.5°	5804.0	6320.8	6855.2	7428.8	7916.8	8232.0	8414.4	8398.4	8016.8	7420.8	6911.2	47.5°
50°	6152.8	6713.6	7284.8	7897.6	8384.0	8672.8	8896.0	8825.6	8343.2	7700.0	7104.8	50°
52.5°	6395.2	7020.8	7617.6	8280.0	8780.8	9054.4	9338.4	9112.0	8536.0	7871.2	7208.8	52.5°
55°	6548.8	7232.0	7854.4	8587.2	9079.2	9406.4	9589.6	9268.0	8610.4	7918.4	7244.8	55°
57.5°	6652.8	7348.0	7993.6	8764.8	9348.0	9622.4	9667.2	9273.6	8562.4	7844.0	7208.8	57.5°
60°	6704.0	7382.4	8056.8	8889.6	9536.8	9687.2	9605.6	9144.0	8396.8	7625.6	6976.8	60°
62.5°	6698.4	7339.2	8024.0	8931.2	9574.4	9593.6	9408.0	8923.2	8092.0	7167.2	6591.2	62.5°
65°	6556.0	7181.6	7839.2	8776.8	9399.2	9316.8	9083.2	8508.8	7499.2	6568.8	6277.6	65°
67.5°	6145.6	6745.6	7356.0	8271.2	8905.6	8825.6	8472.0	7694.4	6810.4	6039.2	5882.4	67.5°
70°	5459.2	5968.0	6504.0	7308.0	7973.6	7865.6	7247.2	6774.4	6128.0	5427.2	5372.8	70°
72.5°	4564.0	4949.6	5338.4	5936.8	6395.2	6174.4	5785.6	5760.8	5238.4	4703.2	4714.4	72.5°
75°	3569.6	3859.2	4040.8	4392.8	4697.6	4500.0	4523.2	4660.8	4488.8	4067.2	3930.4	75°
77.5°	2586.4	2864.0	2921.6	3130.4	3344.8	3569.6	3867.2	4191.2	4245.6	4008.8	3512.8	77.5°
80°	1692.8	1998.4	1884.8	1959.2	2260.8	2671.2	3214.4	3748.0	3931.2	3718.4	3108.0	80°
82.5°	998.4	1426.4	1245.6	1372.8	1564.0	1921.6	2296.8	2699.2	3005.6	2779.2	2596.0	82.5°
85°	758.4	1124.8	1191.2	1345.6	1408.0	1423.2	1488.8	1620.0	1778.4	1837.6	1832.8	85°
87.5°	395.2	874.4	981.6	908.0	847.2	734.4	572.8	616.8	564.0	771.2	730.4	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: P159100

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

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
1336.8	1336.8	1336.8	1336.8	1336.8	1336.8	1336.8
1414.4	1412.0	1413.6	1414.4	1414.4	1414.4	1416.0
1447.2	1440.8	1438.4	1438.4	1437.6	1435.2	1434.4
1482.4	1471.2	1467.2	1462.4	1458.4	1456.0	1452.0
1545.6	1536.0	1516.0	1504.8	1494.4	1487.2	1480.8
1630.4	1616.8	1597.6	1583.2	1567.2	1562.4	1554.4
1761.6	1749.6	1732.8	1716.8	1707.2	1690.4	1678.4
1966.4	1942.4	1925.6	1904.8	1881.6	1847.2	1830.4
2236.0	2188.0	2154.4	2136.0	2089.6	2084.0	2043.2
2545.6	2531.2	2480.0	2457.6	2412.8	2395.2	2331.2
3008.8	2997.6	2892.8	2881.6	2812.8	2761.6	2662.4
3617.6	3525.6	3407.2	3324.8	3207.2	3075.2	2906.4
4149.6	3961.6	3780.8	3588.8	3426.4	3236.8	3045.6
4488.8	4236.8	4004.0	3807.2	3606.4	3380.8	3135.2
4786.4	4532.0	4278.4	4045.6	3802.4	3513.6	3210.4
5142.4	4889.6	4604.0	4276.8	3964.8	3611.2	3240.8
5507.2	5211.2	4854.4	4453.6	4061.6	3659.2	3235.2
5880.8	5502.4	5028.0	4571.2	4123.2	3666.4	3197.6
6184.0	5705.6	5156.8	4631.2	4136.0	3641.6	3150.4
6398.4	5836.0	5214.4	4652.0	4120.0	3602.4	3086.4
6520.8	5907.2	5228.8	4636.8	4087.2	3546.4	3016.8
6565.6	5928.8	5214.4	4605.6	4057.6	3486.4	2968.0
6560.8	5916.8	5161.6	4532.8	3978.4	3406.4	2908.0
6470.4	5805.6	5053.6	4445.6	3911.2	3369.6	2912.0
6316.8	5735.2	5021.6	4463.2	3946.4	3448.8	3038.4
6247.2	5876.0	5201.6	4639.2	4127.2	3675.2	3299.2
6208.0	6104.8	5459.2	4828.8	4341.6	3949.6	3610.4
6048.0	6170.4	5605.6	4936.8	4532.8	4224.8	3921.6
5789.6	6017.6	5494.4	4916.0	4638.4	4436.0	4033.6
5250.4	5491.2	4999.2	4609.6	4506.4	4439.2	3865.6
4253.6	4378.4	4098.4	4010.4	4048.8	4049.6	3242.4
3136.8	3061.6	2935.2	2941.6	3200.0	3160.0	2311.2
2560.8	2096.0	1916.8	1984.8	2304.0	2132.0	1452.0
2383.2	1869.6	1543.2	1559.2	1740.0	1373.6	874.4
1927.2	1704.0	1366.4	1226.4	1190.4	915.2	593.6
806.4	741.6	552.0	497.6	408.0	249.6	113.6
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)