

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: P158893

Luminaire Tested: **VST-F05-LED-E-U-SLL-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P158893  
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-SLL-8030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT  
Light Source: (35) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 9361.6 lumens  
Efficiency: N/A  
Efficacy: 70.2 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

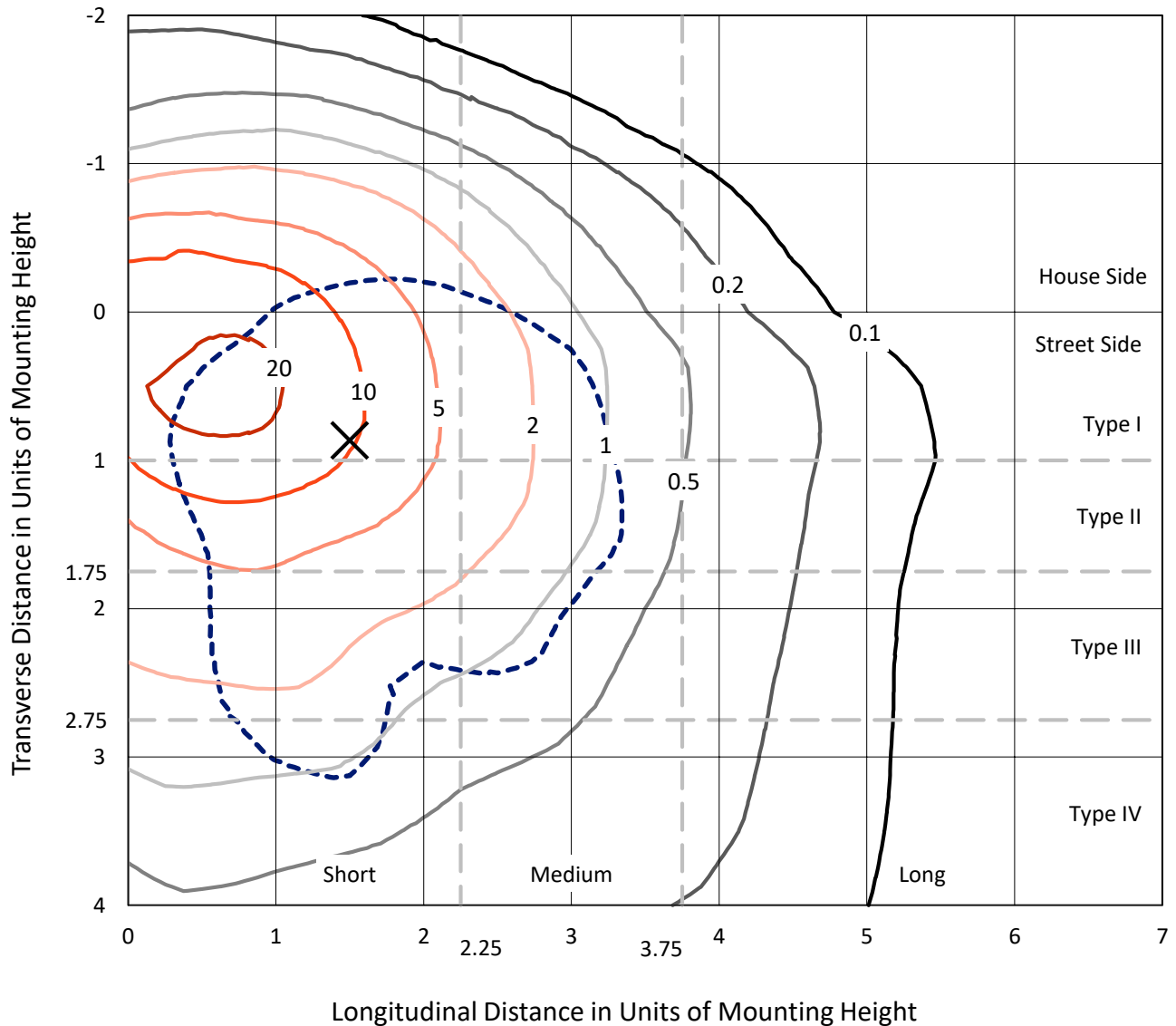


REPORT NUMBER: P158893

CATALOG NUMBER: VST-F05-LED-E-U-SLL-8030

### Iso-Footcandle Lines of Horizontal Illumination

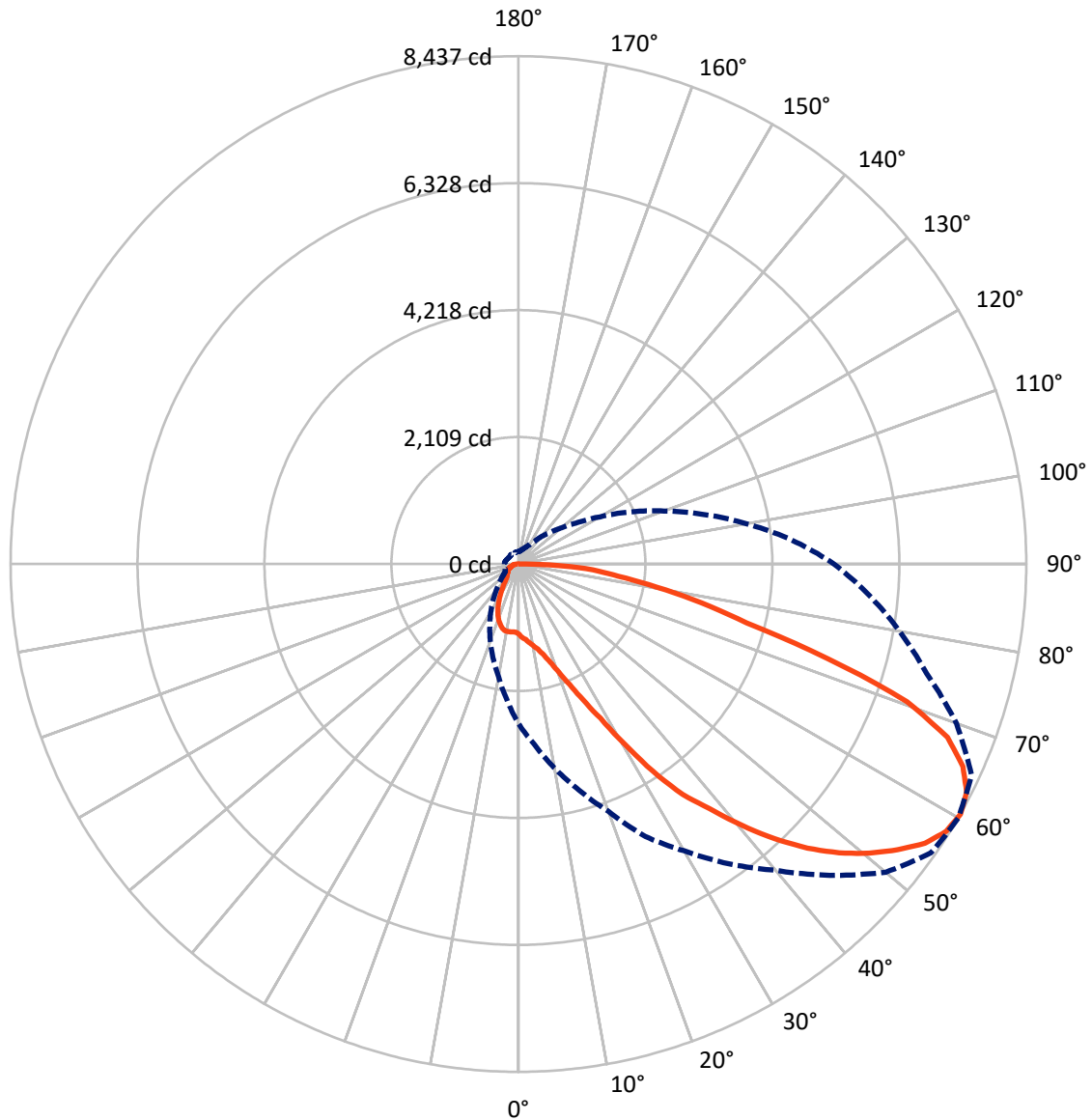
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 26.8 fc  
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P158893  
CATALOG NUMBER: VST-F05-LED-E-U-SLL-8030

### Luminous Intensity Polar Plot



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

REPORT NUMBER: P158893

CATALOG NUMBER: VST-F05-LED-E-U-SLL-8030

**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	2107.9	0.0	2107.9
	% Fixture	22.5	0.0	22.5
<b>Street Side</b>	Lumens	7253.7	0.0	7253.7
	% Fixture	77.5	0.0	77.5
<b>Total</b>	Lumens	9361.6	0.0	9361.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	114.9	1.2
10°-20°	370.9	4.0
20°-30°	703.7	7.5
30°-40°	1108.3	11.8
40°-50°	1546.9	16.5
50°-60°	1913.1	20.4
60°-70°	1983.1	21.2
70°-80°	1247.8	13.3
80°-90°	373.0	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°	9361.6	100.0
0°-180°	9361.6	100.0



REPORT NUMBER: P158893

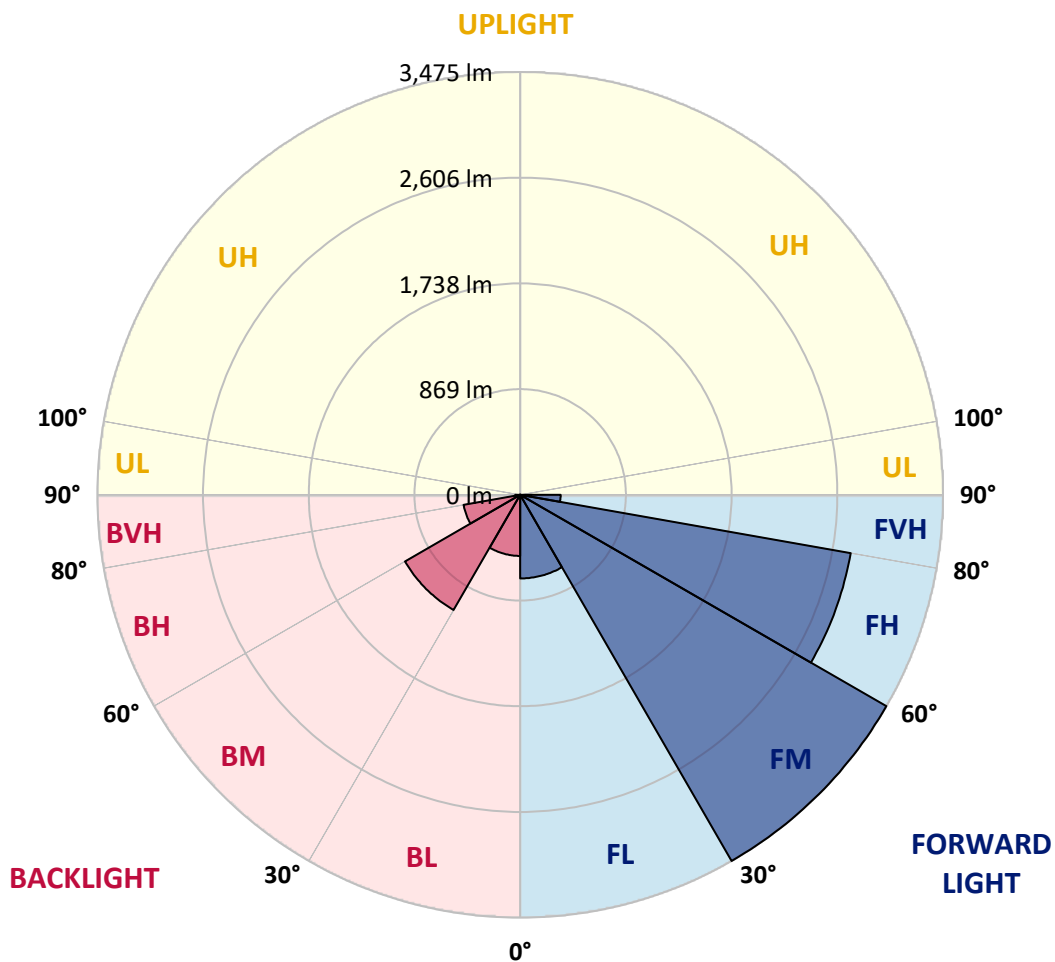
CATALOG NUMBER: VST-F05-LED-E-U-SLL-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	687.3	7.3			
FM	(30°-60°)	3475.2	37.1			
FH	(60°-80°)	2758.8	29.5			G2/5000
FVH	(80°-90°)	332.4	3.6			G3/500
BL	(0°-30°)	502.2	5.4	B2/1000		
BM	(30°-60°)	1093.1	11.7	B2/2500		
BH	(60°-80°)	472.1	5.0	B1/500		G1/500
BVH	(80°-90°)	40.6	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: P158893

CATALOG NUMBER: VST-F05-LED-E-U-SLL-8030

**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2
2.5°	1233.2	1231.8	1231.8	1231.8	1231.1	1229.7	1231.8	1231.1	1227.6	1225.6	1227.6
5°	1249.2	1249.9	1252.0	1252.7	1252.7	1254.8	1260.4	1261.1	1260.4	1261.8	1265.3
7.5°	1264.6	1268.1	1270.1	1273.6	1277.8	1281.3	1291.1	1300.8	1307.1	1312.0	1313.3
10°	1289.7	1295.2	1301.5	1310.6	1320.3	1337.7	1346.1	1355.8	1362.1	1371.9	1374.0
12.5°	1353.8	1360.7	1364.9	1378.8	1391.4	1408.1	1419.9	1422.7	1437.4	1445.7	1455.5
15°	1461.8	1472.2	1486.8	1495.2	1509.1	1523.8	1534.2	1548.1	1550.2	1561.4	1569.0
17.5°	1594.1	1608.8	1638.7	1658.9	1677.0	1691.7	1712.6	1728.6	1732.1	1744.6	1728.6
20°	1779.5	1815.0	1819.9	1860.3	1876.3	1905.6	1947.4	1955.0	1975.2	1955.0	1943.2
22.5°	2030.3	2086.0	2101.4	2140.4	2159.9	2204.5	2217.0	2258.1	2272.1	2256.7	2224.7
25°	2318.7	2405.1	2449.7	2509.6	2519.4	2610.7	2620.4	2668.5	2642.7	2605.8	2606.5
27.5°	2531.2	2678.3	2793.2	2895.6	2967.4	3070.5	3150.6	3172.9	3148.5	3100.5	3083.8
30°	2652.5	2819.0	2984.1	3125.6	3292.8	3450.2	3614.0	3695.5	3709.4	3734.5	3633.5
32.5°	2730.5	2944.4	3140.9	3315.8	3487.2	3689.9	3909.4	4119.1	4295.4	4428.5	4365.7
35°	2796.0	3060.1	3311.6	3523.4	3726.1	3947.0	4168.6	4415.9	4707.8	4878.5	4914.1
37.5°	2822.5	3145.1	3453.0	3724.7	4009.7	4258.4	4478.6	4698.8	5005.3	5309.8	5403.9
40°	2817.6	3186.9	3537.3	3878.7	4227.8	4538.5	4796.3	5056.9	5415.7	5771.8	5925.0
42.5°	2784.9	3193.1	3591.0	3981.1	4379.0	4792.1	5121.7	5422.0	5766.2	6222.5	6439.2
45°	2743.7	3171.5	3602.1	4033.4	4491.2	4969.1	5385.8	5757.1	6160.5	6611.3	6873.3
47.5°	2688.0	3137.4	3588.2	4051.5	4541.3	5082.7	5572.5	6019.1	6462.9	6982.0	7314.3
50°	2627.4	3088.6	3559.6	4038.3	4553.9	5144.7	5679.1	6187.7	6706.1	7266.3	7686.4
52.5°	2584.9	3036.4	3533.8	4011.1	4541.3	5163.5	5718.1	6278.3	6855.2	7434.2	7935.8
55°	2532.6	2966.7	3464.9	3947.7	4495.3	5153.1	5713.9	6309.6	6896.3	7499.0	8071.7
57.5°	2536.1	2934.7	3406.3	3871.8	4401.3	5056.2	5635.2	6278.3	6831.5	7457.2	8076.6
60°	2646.2	3003.6	3437.0	3887.1	4373.4	4994.9	5501.4	6076.2	6641.3	7312.9	7963.7
62.5°	2873.3	3200.8	3594.5	4040.4	4530.2	5117.5	5440.8	5740.4	6242.1	7047.5	7771.4
65°	3144.4	3439.8	3781.2	4205.5	4754.5	5316.8	5406.7	5467.3	5720.9	6531.2	7410.5
67.5°	3415.4	3679.5	3947.7	4299.6	4882.0	5373.9	5267.3	5123.1	5259.7	5931.3	6701.2
70°	3512.9	3863.4	4039.7	4281.4	4785.2	5240.8	5042.3	4679.3	4726.7	5337.0	5900.0
72.5°	3366.6	3866.2	3924.7	4014.6	4353.9	4782.4	4572.7	4105.9	4096.1	4562.2	5017.2
75°	2823.9	3526.9	3526.2	3492.7	3569.4	3813.2	3704.5	3423.1	3542.2	3909.4	4059.2
77.5°	2012.9	2752.1	2786.9	2561.9	2556.3	2666.4	2731.9	3059.4	3491.3	3697.6	3650.2
80°	1264.6	1856.8	2006.6	1728.6	1669.4	1825.4	2230.3	2706.8	3238.4	3423.8	3264.2
82.5°	761.5	1196.3	1515.4	1357.9	1344.0	1628.3	2075.6	2260.9	2420.5	2617.6	2350.8
85°	517.0	797.1	1036.7	1068.1	1190.0	1484.0	1678.4	1596.2	1600.4	1548.8	1410.9
87.5°	98.9	217.4	355.3	433.4	480.7	645.9	702.3	636.1	671.7	491.2	537.2
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: P158893

CATALOG NUMBER: VST-F05-LED-E-U-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2
2.5°	1224.2	1224.2	1224.2	1220.7	1221.4	1216.5	1214.4	1214.4	1212.3	1212.3	1211.6
5°	1262.5	1258.3	1260.4	1259.7	1259.7	1252.7	1249.2	1249.2	1240.2	1240.9	1238.1
7.5°	1319.6	1318.9	1321.0	1316.8	1311.3	1305.7	1300.1	1297.3	1284.8	1277.1	1272.2
10°	1384.4	1383.7	1385.8	1385.1	1375.4	1364.9	1349.6	1338.4	1323.1	1311.3	1299.4
12.5°	1455.5	1454.8	1453.4	1447.1	1436.7	1419.9	1400.4	1381.6	1358.6	1343.3	1325.9
15°	1566.3	1564.2	1555.8	1546.8	1535.6	1509.8	1475.7	1448.5	1417.9	1391.4	1362.8
17.5°	1730.0	1712.6	1711.2	1691.0	1661.0	1626.9	1594.8	1549.5	1505.6	1465.9	1426.9
20°	1955.7	1915.3	1904.2	1881.2	1841.5	1805.9	1736.3	1675.6	1615.7	1561.4	1511.9
22.5°	2201.7	2172.4	2145.2	2107.6	2053.3	2001.7	1913.2	1837.3	1760.7	1691.0	1635.9
25°	2545.2	2494.3	2445.5	2385.6	2310.4	2249.1	2148.0	2071.4	1971.1	1907.7	1828.2
27.5°	2989.0	2901.9	2819.7	2768.1	2635.8	2546.6	2417.7	2318.7	2197.5	2111.8	2017.7
30°	3566.6	3465.6	3343.6	3165.3	3007.8	2830.8	2671.3	2544.5	2415.6	2295.7	2187.1
32.5°	4282.8	4104.5	3911.5	3628.6	3370.1	3117.9	2905.4	2749.3	2617.6	2468.5	2315.3
35°	4888.3	4704.4	4430.5	4071.0	3751.9	3463.5	3209.2	2996.0	2823.9	2635.1	2432.3
37.5°	5366.3	5156.5	4899.4	4517.6	4180.4	3852.3	3585.4	3313.7	3087.9	2828.0	2571.7
40°	5913.9	5703.5	5420.6	5024.9	4625.6	4269.6	3956.8	3676.0	3398.7	3081.7	2752.1
42.5°	6391.2	6239.3	5952.9	5543.9	5101.5	4705.1	4363.0	4041.8	3679.5	3324.8	2934.7
45°	6888.6	6733.9	6462.2	6034.4	5564.1	5122.4	4713.4	4367.8	3940.0	3517.8	3071.2
47.5°	7328.3	7169.4	6894.9	6469.9	5970.3	5504.9	5054.8	4636.8	4140.0	3655.1	3160.4
50°	7747.7	7553.3	7301.8	6878.2	6344.5	5847.0	5358.6	4822.1	4295.4	3751.2	3221.0
52.5°	8133.0	7885.7	7647.4	7211.2	6634.3	6114.6	5569.7	4979.6	4390.8	3827.2	3262.1
55°	8351.8	8192.2	7907.3	7478.8	6840.5	6298.5	5703.5	5090.3	4485.6	3880.8	3279.5
57.5°	8419.4	8380.3	8141.4	7633.4	6961.8	6399.5	5794.1	5178.1	4549.0	3896.1	3255.1
60°	8365.7	8436.8	8305.8	7742.1	7016.8	6429.5	5838.6	5240.8	4560.1	3847.4	3181.3
62.5°	8193.6	8355.3	8338.5	7778.4	6988.3	6391.9	5833.8	5208.8	4455.6	3695.5	3015.5
65°	7910.7	8114.2	8185.9	7643.9	6827.3	6254.6	5709.7	5007.4	4165.1	3398.7	2737.5
67.5°	7378.4	7686.4	7756.1	7203.5	6406.5	5874.9	5352.3	4589.4	3627.2	2939.5	2303.4
70°	6311.7	6850.3	6944.4	6364.7	5664.5	5197.6	4754.5	3926.8	3020.3	2357.8	1767.6
72.5°	5038.8	5377.4	5569.7	5170.5	4649.3	4310.7	3974.9	3012.7	2279.0	1739.7	1216.5
75°	3939.3	3919.1	4091.2	3825.8	3519.2	3361.1	3108.8	2102.1	1526.5	1152.4	769.9
77.5°	3368.0	3108.8	2913.1	2726.3	2544.5	2494.3	2252.5	1304.3	943.4	690.5	460.5
80°	2799.5	2326.4	1969.0	1706.3	1641.5	1740.4	1474.3	769.2	558.8	396.4	289.1
82.5°	2000.3	1673.6	1362.1	1195.6	1084.8	1242.3	869.5	427.1	303.1	237.6	191.6
85°	1296.6	1239.5	1226.3	1171.9	1037.4	979.6	660.5	367.9	227.1	147.7	119.1
87.5°	498.9	639.6	737.8	790.8	854.9	761.5	344.2	126.8	124.7	76.6	57.8
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: P158893

CATALOG NUMBER: VST-F05-LED-E-U-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2
2.5°	1206.7	1204.0	1203.3	1201.2	1199.8	1199.8	1196.3	1132.9	1132.2	1132.2	1131.5
5°	1232.5	1229.0	1225.6	1224.9	1222.1	1222.1	1218.6	1155.2	1155.2	1155.2	1153.8
7.5°	1267.4	1260.4	1256.2	1254.1	1249.9	1252.0	1254.8	1190.7	1191.4	1190.7	1192.1
10°	1292.4	1288.3	1283.4	1282.0	1279.2	1281.3	1285.5	1222.1	1224.2	1224.9	1226.3
12.5°	1316.8	1309.9	1303.6	1301.5	1300.1	1305.7	1310.6	1249.2	1251.3	1253.4	1253.4
15°	1346.8	1334.9	1326.6	1321.7	1318.9	1324.5	1331.5	1270.8	1271.5	1273.6	1272.9
17.5°	1397.7	1380.2	1360.7	1357.2	1348.2	1350.3	1351.7	1284.1	1281.3	1276.4	1268.1
20°	1476.4	1449.9	1423.4	1412.3	1394.2	1386.5	1371.2	1284.8	1267.4	1252.7	1240.2
22.5°	1589.3	1550.2	1521.7	1502.9	1465.9	1440.2	1398.3	1281.3	1248.6	1223.5	1204.0
25°	1771.8	1725.1	1681.2	1633.8	1576.0	1524.5	1463.1	1312.0	1261.1	1217.9	1180.3
27.5°	1949.5	1875.6	1808.0	1737.0	1655.4	1578.1	1491.7	1321.7	1263.9	1208.1	1146.8
30°	2082.5	1975.2	1872.8	1769.0	1662.4	1562.1	1464.5	1288.3	1219.3	1156.6	1091.8
32.5°	2163.4	2024.0	1890.9	1762.0	1636.6	1523.8	1414.4	1230.4	1154.5	1080.6	1011.7
35°	2240.0	2067.2	1902.1	1750.2	1606.7	1481.3	1363.5	1162.9	1072.3	993.5	906.5
37.5°	2334.8	2112.5	1909.1	1728.6	1562.8	1419.3	1289.7	1077.8	987.3	890.4	808.2
40°	2448.3	2159.2	1902.1	1685.4	1494.5	1337.7	1200.5	988.7	887.6	793.6	712.8
42.5°	2556.3	2200.3	1884.0	1627.6	1419.9	1252.7	1119.0	909.2	808.2	712.1	631.9
45°	2636.4	2235.1	1874.9	1587.2	1362.8	1194.9	1047.2	845.1	738.5	641.7	560.2
47.5°	2692.2	2256.0	1870.7	1564.9	1323.1	1135.0	981.7	781.0	668.9	571.3	491.9
50°	2721.4	2255.3	1860.3	1540.5	1264.6	1063.2	914.1	716.2	604.8	509.3	436.9
52.5°	2729.1	2242.8	1838.0	1495.9	1193.5	991.5	841.7	648.7	548.3	457.1	383.9
55°	2711.7	2212.1	1791.3	1421.3	1117.6	915.5	775.5	595.7	493.3	406.9	349.8
57.5°	2662.2	2157.8	1703.5	1318.9	1037.4	845.1	699.5	531.6	433.4	360.9	313.5
60°	2570.3	2042.8	1566.3	1197.7	935.7	737.8	595.0	448.0	370.0	315.6	277.3
62.5°	2400.3	1862.4	1373.3	1030.5	789.4	598.5	475.2	357.4	298.9	263.4	239.7
65°	2126.4	1590.6	1149.6	811.7	599.9	435.5	353.2	268.9	226.4	204.8	197.9
67.5°	1735.6	1228.3	836.1	563.7	406.2	305.2	245.9	196.5	176.3	167.9	165.1
70°	1261.8	836.8	541.4	356.0	268.2	213.2	186.0	158.2	147.0	144.9	144.9
72.5°	792.2	508.6	331.6	243.9	203.4	172.8	158.9	139.3	135.2	133.8	131.7
75°	464.7	308.7	234.8	200.0	174.2	154.7	142.8	126.8	124.0	123.3	121.2
77.5°	296.1	222.3	189.5	170.7	157.5	140.0	129.6	112.9	112.2	111.5	110.8
80°	212.5	184.6	165.8	151.2	138.0	121.9	115.7	102.4	101.0	100.3	101.7
82.5°	160.9	152.6	144.9	133.8	115.7	103.8	98.9	89.9	90.6	87.1	86.4
85°	110.8	109.4	108.7	103.8	90.6	80.1	76.6	71.8	75.2	71.8	67.6
87.5°	54.3	53.6	49.5	58.5	54.3	43.2	39.0	43.2	48.1	46.7	43.2
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: P158893

CATALOG NUMBER: VST-F05-LED-E-U-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2
2.5°	1128.7	1125.9	1128.0	1126.6	1126.6	1125.9	1127.3	1125.2	1123.8	1125.2	1125.9
5°	1151.0	1147.5	1148.2	1143.3	1145.4	1140.6	1141.9	1138.5	1135.0	1133.6	1133.6
7.5°	1188.6	1185.1	1181.0	1180.3	1172.6	1169.8	1164.9	1162.2	1160.1	1155.2	1152.4
10°	1222.8	1217.2	1212.3	1211.6	1204.0	1197.0	1190.7	1185.1	1181.7	1174.7	1171.2
12.5°	1250.6	1245.1	1237.4	1233.2	1225.6	1217.2	1213.0	1204.7	1199.8	1192.1	1185.8
15°	1266.7	1256.9	1245.8	1238.1	1227.0	1217.9	1211.6	1205.4	1200.5	1190.7	1181.7
17.5°	1259.0	1243.0	1227.6	1213.7	1198.4	1190.0	1181.0	1173.3	1171.9	1160.8	1146.8
20°	1227.0	1208.1	1187.9	1169.1	1148.9	1137.1	1125.9	1114.1	1110.6	1097.4	1079.2
22.5°	1187.9	1166.3	1143.3	1120.4	1094.6	1077.8	1061.1	1046.5	1034.7	1015.1	989.4
25°	1148.2	1116.2	1082.7	1053.5	1023.5	1002.6	985.2	969.2	955.2	923.9	897.4
27.5°	1096.0	1045.8	1011.7	978.2	942.0	914.8	895.3	873.0	857.7	821.5	793.6
30°	1029.1	978.9	930.1	896.7	860.5	831.2	806.1	774.1	751.8	725.3	699.5
32.5°	944.8	894.6	845.1	807.5	777.6	741.3	710.0	679.3	653.5	627.8	607.6
35°	842.4	793.6	746.9	709.3	675.8	647.3	617.3	590.8	561.6	533.7	521.9
37.5°	734.4	682.1	630.5	597.8	571.3	551.1	523.2	501.6	475.2	458.5	444.5
40°	640.3	584.6	535.8	507.9	487.0	464.0	441.0	424.3	405.5	388.8	378.3
42.5°	560.9	508.6	466.8	443.1	418.0	393.0	375.5	361.6	349.8	337.2	324.7
45°	487.7	437.5	402.7	373.5	352.5	332.3	320.5	314.2	307.3	299.6	291.2
47.5°	426.4	383.2	349.1	321.9	300.3	286.4	280.8	278.7	275.9	269.6	265.5
50°	379.7	344.2	309.4	285.0	266.8	259.9	253.6	251.5	248.0	245.9	243.2
52.5°	340.7	303.1	273.8	251.5	240.4	237.6	234.8	232.0	231.3	229.9	228.5
55°	308.7	275.9	248.7	232.0	226.4	224.3	223.7	220.9	220.2	220.2	218.1
57.5°	280.1	252.2	227.8	217.4	213.9	211.8	210.4	209.0	209.0	210.4	209.7
60°	250.8	227.1	212.5	206.9	204.8	201.4	197.9	196.5	197.2	200.7	200.7
62.5°	222.3	204.8	195.8	193.7	191.6	188.8	184.6	183.2	184.6	188.8	190.9
65°	190.9	183.2	180.5	179.1	177.7	175.6	172.8	171.4	172.1	174.2	177.0
67.5°	162.3	161.6	161.6	162.3	161.6	160.9	159.6	157.5	156.8	156.8	158.2
70°	144.9	144.9	147.0	147.0	146.3	146.3	144.2	142.1	140.7	139.3	140.0
72.5°	131.7	131.7	132.4	133.1	132.4	132.4	129.6	128.2	124.7	124.0	122.6
75°	120.5	119.1	119.1	118.4	117.7	118.4	115.7	112.2	110.8	110.1	108.7
77.5°	109.4	106.6	105.2	103.8	104.5	103.8	101.7	99.6	97.5	96.8	96.1
80°	96.8	92.7	90.6	87.1	89.2	89.9	88.5	86.4	85.7	85.0	84.3
82.5°	80.1	75.9	73.2	71.1	69.7	71.1	73.2	78.0	76.6	75.9	74.6
85°	62.7	55.7	52.3	53.0	49.5	50.2	56.4	59.2	59.2	60.6	59.2
87.5°	35.5	34.1	25.8	23.7	25.1	30.0	33.4	36.9	36.9	34.8	39.0
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: P158893

CATALOG NUMBER: VST-F05-LED-E-U-SLL-8030

**CANDELA DISTRIBUTION (continued):**

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2
2.5°	1125.9	1127.3	1128.0	1130.8	1132.2	1132.9	1133.6	1135.0	1135.7	1135.0	1138.5
5°	1131.5	1131.5	1130.1	1132.2	1132.9	1132.9	1131.5	1132.9	1132.9	1132.9	1136.4
7.5°	1146.1	1141.9	1139.9	1137.1	1135.0	1132.2	1128.7	1128.7	1128.0	1128.7	1130.8
10°	1161.5	1155.2	1147.5	1140.6	1134.3	1129.4	1123.1	1121.0	1120.4	1119.7	1125.2
12.5°	1173.3	1162.2	1150.3	1138.5	1125.9	1117.6	1107.1	1100.8	1100.1	1100.1	1107.1
15°	1164.9	1146.8	1123.8	1102.9	1091.8	1079.9	1068.1	1060.4	1059.7	1061.1	1065.3
17.5°	1123.1	1093.9	1073.7	1053.5	1038.8	1029.1	1021.4	1020.0	1022.8	1020.0	1025.6
20°	1052.1	1020.7	1006.8	990.8	985.2	978.2	967.1	957.3	957.3	944.8	948.3
22.5°	960.1	942.7	924.6	912.0	907.8	896.0	884.2	870.9	869.5	854.2	852.1
25°	864.0	846.5	831.9	829.1	816.6	800.5	789.4	774.1	770.6	755.3	753.2
27.5°	765.7	751.8	737.1	728.8	721.8	704.4	694.6	676.5	669.6	652.8	650.8
30°	672.3	662.6	645.2	638.2	625.0	604.8	583.9	572.7	567.1	549.7	544.2
32.5°	584.6	569.2	556.0	547.6	530.9	507.9	489.1	473.1	462.6	441.7	436.2
35°	501.0	485.6	479.4	457.8	443.1	427.8	402.0	392.3	373.5	357.4	351.9
37.5°	427.1	412.5	404.1	386.0	371.4	356.0	340.7	328.2	319.1	315.6	315.6
40°	363.7	356.0	345.6	332.3	322.6	311.4	303.1	298.9	298.2	299.6	303.1
42.5°	318.4	310.0	303.1	296.1	289.1	287.8	285.7	288.4	291.9	295.4	298.9
45°	284.3	277.3	273.1	270.3	269.6	271.7	275.9	280.1	286.4	290.5	293.3
47.5°	259.9	254.3	252.9	252.2	255.7	262.0	267.5	273.8	278.7	282.9	285.7
50°	239.0	234.1	233.4	232.7	237.6	243.2	248.0	256.4	259.9	262.7	264.8
52.5°	224.3	220.2	218.1	218.8	223.7	228.5	235.5	241.8	246.6	248.7	250.8
55°	212.5	211.1	206.2	208.3	213.2	219.5	226.4	233.4	238.3	241.8	245.3
57.5°	203.4	200.0	196.5	200.0	204.8	211.1	219.5	225.7	232.0	236.9	240.4
60°	193.7	190.9	188.1	191.6	196.5	202.8	209.0	217.4	225.0	229.9	233.4
62.5°	185.3	183.2	180.5	181.2	183.2	187.4	190.9	198.6	205.5	211.8	216.0
65°	173.5	172.8	168.6	169.3	170.7	174.9	177.7	184.6	191.6	197.2	200.7
67.5°	156.1	154.7	154.7	156.8	157.5	159.6	161.6	168.6	174.2	178.4	182.5
70°	138.7	138.0	138.0	139.3	138.7	140.7	143.5	149.8	156.8	160.9	165.1
72.5°	121.9	121.9	121.2	122.6	122.6	123.3	126.8	132.4	138.7	142.1	144.9
75°	107.3	106.6	106.6	106.6	107.3	107.3	110.8	115.7	121.9	124.0	128.2
77.5°	94.1	94.1	94.1	94.1	94.8	94.1	96.1	99.6	101.7	105.2	105.2
80°	82.9	82.2	82.9	83.6	83.6	82.9	82.9	83.6	84.3	84.3	84.3
82.5°	73.2	71.1	72.5	75.9	75.9	75.9	75.2	70.4	66.9	66.9	68.3
85°	58.5	58.5	59.2	64.1	64.8	62.0	64.8	57.8	50.9	48.8	50.2
87.5°	36.2	28.6	34.8	39.7	39.7	37.6	41.8	39.0	32.7	26.5	25.1
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: P158893  
 CATALOG NUMBER: VST-F05-LED-E-U-SLL-8030

REPORT N  
 CATALOG

**CANDELA DISTRIBUTION (continued):**

**CANDELA**

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	0°
2.5°	1141.3	1141.9	1146.1	1148.2	1148.2	1151.0	1152.4	1156.6	1155.9	1155.9	1157.3	2.5°
5°	1139.9	1141.9	1146.1	1148.9	1150.3	1153.8	1156.6	1161.5	1160.8	1162.2	1162.9	5°
7.5°	1135.0	1140.6	1144.7	1150.3	1155.2	1158.0	1161.5	1165.6	1164.2	1164.9	1164.2	7.5°
10°	1130.8	1136.4	1144.7	1152.4	1159.4	1163.5	1165.6	1170.5	1169.8	1171.2	1171.2	10°
12.5°	1114.1	1123.8	1134.3	1146.1	1156.6	1167.7	1174.7	1185.1	1190.0	1196.3	1203.3	12.5°
15°	1071.6	1082.7	1099.4	1112.7	1132.9	1148.2	1168.4	1188.6	1206.7	1224.2	1244.4	15°
17.5°	1029.8	1034.7	1047.9	1066.0	1084.1	1107.1	1131.5	1167.7	1200.5	1236.0	1275.0	17.5°
20°	952.4	960.8	969.9	991.5	1013.1	1045.8	1075.8	1123.1	1171.2	1227.0	1286.9	20°
22.5°	857.0	865.3	875.1	899.5	926.0	959.4	995.6	1048.6	1112.7	1185.1	1265.3	22.5°
25°	753.9	758.7	766.4	790.8	806.8	850.7	894.6	949.7	1019.3	1112.7	1206.0	25°
27.5°	640.3	649.4	655.6	666.8	703.7	741.3	787.3	846.5	930.8	1026.3	1139.2	27.5°
30°	531.6	539.3	535.8	559.5	583.9	623.6	673.0	738.5	819.4	932.9	1063.2	30°
32.5°	425.0	430.6	428.5	445.2	469.6	509.3	556.0	627.1	712.8	834.0	975.4	32.5°
35°	350.5	351.9	359.5	367.2	388.1	420.1	459.8	521.9	609.6	721.1	870.9	35°
37.5°	315.6	318.4	323.3	333.7	349.1	372.1	404.8	452.9	528.1	626.4	760.1	37.5°
40°	305.2	307.3	310.0	317.0	331.6	351.9	381.1	421.5	476.6	559.5	668.2	40°
42.5°	300.3	300.3	300.3	304.5	315.6	337.2	370.7	410.4	458.5	521.2	608.9	42.5°
45°	293.3	293.3	292.6	294.7	302.4	324.0	360.2	404.8	456.4	516.3	592.2	45°
47.5°	285.7	285.0	282.9	282.9	287.8	309.4	347.0	395.0	451.5	520.5	602.0	47.5°
50°	264.8	264.8	264.8	266.8	271.0	290.5	330.9	381.8	446.6	523.2	617.3	50°
52.5°	252.9	253.6	255.7	255.7	259.9	280.1	322.6	379.0	449.4	533.7	636.8	52.5°
55°	247.3	249.4	251.5	251.5	255.0	275.9	319.8	381.1	459.8	555.3	670.3	55°
57.5°	242.5	244.6	245.9	245.9	248.7	266.8	312.1	377.6	466.1	576.2	711.4	57.5°
60°	233.4	234.8	235.5	235.5	236.2	251.5	294.7	360.9	452.2	574.8	733.7	60°
62.5°	216.7	219.5	220.2	220.9	220.9	235.5	272.4	333.7	422.2	553.9	727.4	62.5°
65°	204.1	205.5	207.6	209.0	211.8	221.6	250.8	301.0	383.2	512.1	692.6	65°
67.5°	184.6	186.7	188.8	191.6	194.4	200.7	223.7	264.1	330.3	441.0	614.5	67.5°
70°	167.2	167.9	170.0	173.5	174.2	177.7	194.4	222.3	270.3	353.9	494.7	70°
72.5°	145.6	147.0	149.8	154.0	154.0	156.8	166.5	181.2	211.8	270.3	365.1	72.5°
75°	126.8	128.2	130.3	130.3	126.8	127.5	134.5	144.9	167.9	203.4	266.2	75°
77.5°	105.2	108.0	110.1	105.9	104.5	106.6	110.1	117.7	134.5	161.6	200.0	77.5°
80°	87.1	88.5	89.2	89.9	88.5	90.6	93.4	98.2	109.4	130.3	158.2	80°
82.5°	69.7	71.1	73.2	75.9	75.9	83.6	84.3	84.3	90.6	103.8	124.0	82.5°
85°	51.6	54.3	57.1	60.6	61.3	65.5	63.4	62.7	64.8	77.3	85.7	85°
87.5°	26.5	28.6	30.0	32.7	29.3	30.7	30.7	28.6	25.1	31.4	34.8	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: P158893

NUMBER: VST-F05-LED-E-U-SLL-8030

**DISTRIBUTION (continued):**

330°	335°	340°	345°	350°	355°	360°
1164.2	1164.2	1164.2	1164.2	1164.2	1164.2	1164.2
1158.7	1157.3	1158.7	1158.7	1160.8	1159.4	1233.2
1164.2	1162.9	1164.2	1165.6	1167.7	1167.7	1249.2
1164.9	1164.9	1163.5	1167.0	1169.8	1172.6	1264.6
1173.3	1173.3	1174.7	1175.4	1181.7	1188.6	1289.7
1207.4	1210.9	1217.2	1219.3	1230.4	1238.1	1353.8
1259.7	1279.2	1291.7	1295.9	1305.7	1320.3	1461.8
1312.6	1345.4	1379.5	1400.4	1413.0	1430.4	1594.1
1352.4	1413.7	1472.2	1524.5	1554.4	1588.6	1779.5
1355.8	1453.4	1552.3	1649.2	1729.3	1792.7	2030.3
1322.4	1450.6	1587.2	1735.6	1873.5	1987.8	2318.7
1279.9	1437.4	1611.5	1801.1	1982.2	2150.8	2531.2
1226.3	1415.1	1615.7	1828.9	2041.4	2244.2	2652.5
1144.7	1348.9	1565.6	1801.1	2047.7	2294.4	2730.5
1040.2	1248.6	1470.8	1739.1	2018.4	2314.6	2796.0
933.6	1139.2	1378.1	1656.1	1971.8	2311.1	2822.5
820.8	1024.9	1269.5	1567.7	1908.4	2279.0	2817.6
744.1	930.1	1169.8	1477.8	1838.0	2236.5	2784.9
699.5	862.6	1091.1	1395.6	1773.9	2185.7	2743.7
698.8	842.4	1049.3	1337.0	1709.1	2129.2	2688.0
723.2	854.9	1044.4	1312.0	1673.6	2088.1	2627.4
751.8	889.7	1070.2	1321.0	1672.9	2070.0	2584.9
797.1	949.0	1126.6	1360.0	1691.0	2067.2	2532.6
854.9	1029.1	1228.3	1456.2	1761.3	2122.3	2536.1
914.1	1123.1	1361.4	1620.6	1900.0	2250.5	2646.2
935.7	1195.6	1496.6	1813.6	2107.6	2442.8	2873.3
916.9	1212.3	1578.8	1963.4	2309.7	2667.8	3144.4
847.2	1144.7	1545.4	2005.9	2426.0	2827.4	3415.4
697.4	976.8	1393.5	1910.4	2417.0	2860.1	3512.9
511.4	757.4	1132.9	1623.4	2148.7	2655.3	3366.6
369.3	535.8	818.0	1222.8	1698.6	2138.3	2823.9
264.8	371.4	530.9	803.3	1157.3	1488.9	2012.9
190.2	252.2	330.9	482.1	705.1	914.1	1264.6
140.0	172.8	217.4	299.6	415.3	532.3	761.5
95.5	101.7	131.0	177.0	272.4	391.6	517.0
36.2	41.1	48.1	72.5	121.9	140.0	98.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)