

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: P158858

Luminaire Tested: **VST-E02-LED-E-U-SLL-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158858
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-E02-LED-E-U-SLL-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - 90° SPILL LIGHT ELIMINATOR LEFT
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4536.1 lumens
Efficiency: N/A
Efficacy: 87.1 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 52.1
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



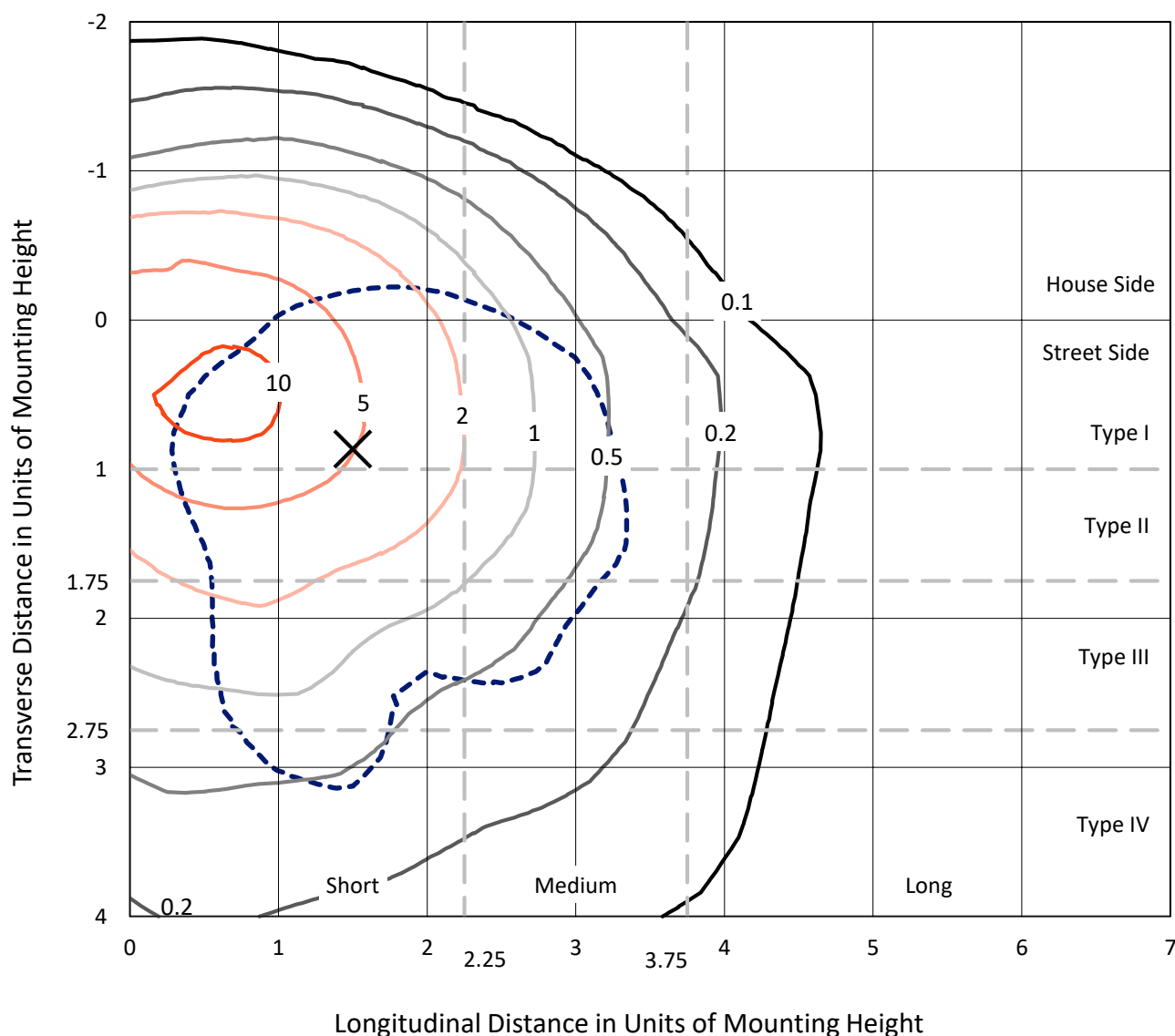
REPORT NUMBER: P158858

CATALOG NUMBER: VST-E02-LED-E-U-SLL-8030

Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

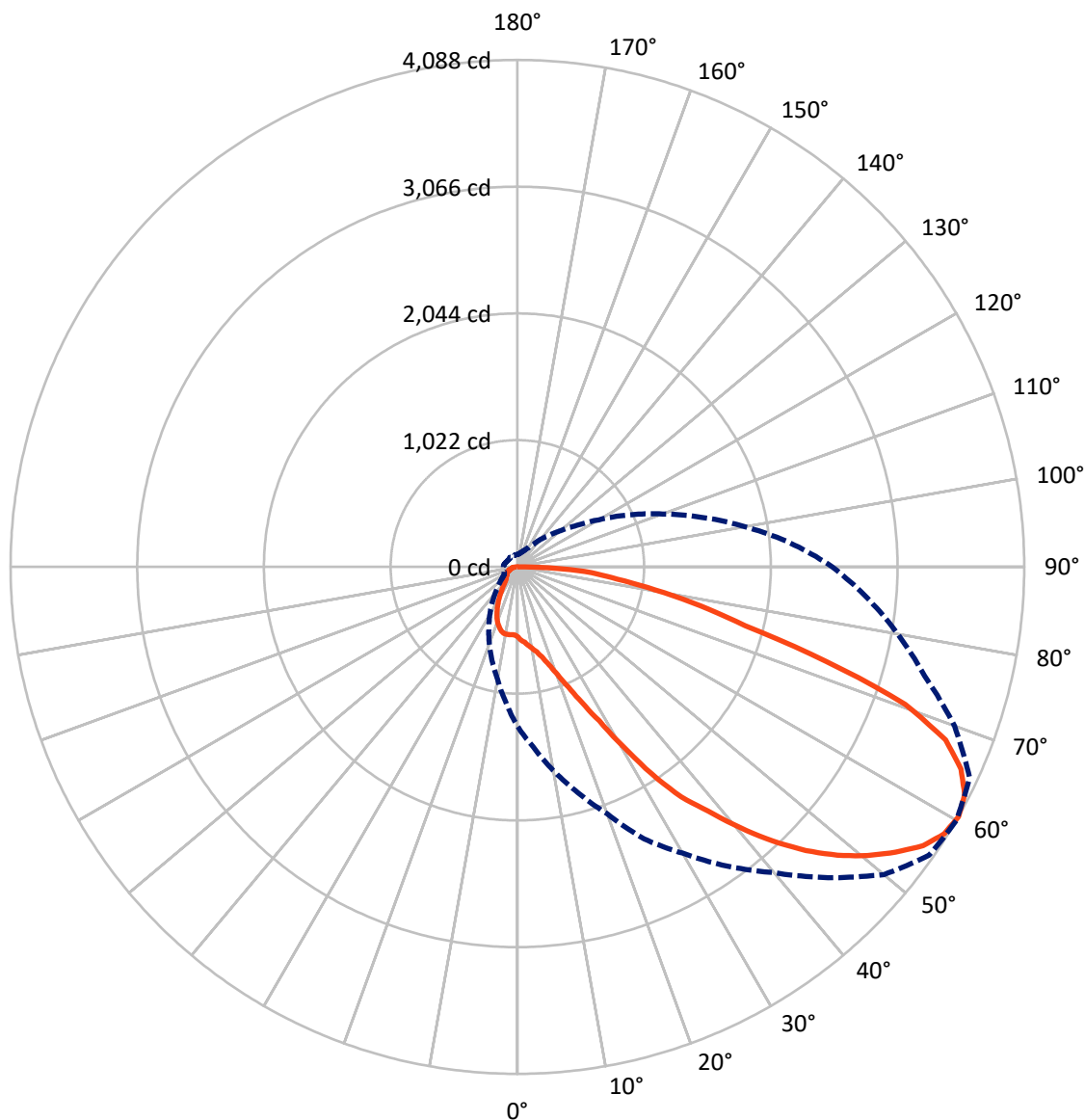


Based on 10 foot mounting height. Maximum calculated value = 13 fc
 Type IV - Short - Non-Cutoff

REPORT NUMBER: P158858

CATALOG NUMBER: VST-E02-LED-E-U-SLL-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P158858

CATALOG NUMBER: VST-E02-LED-E-U-SLL-8030

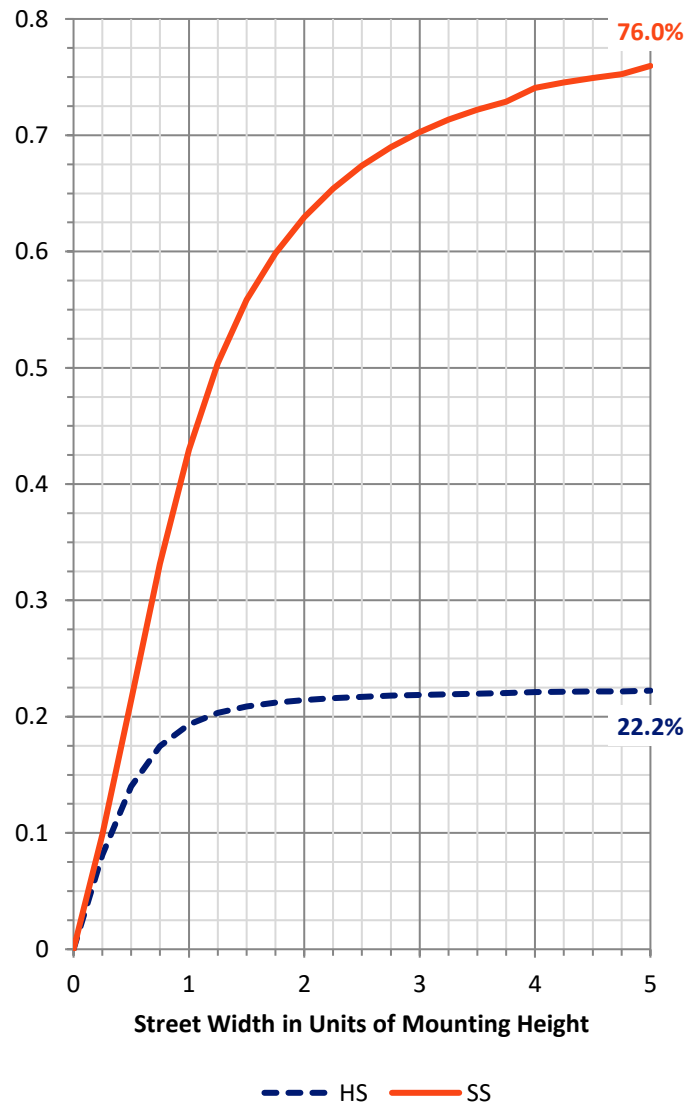
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1021.4	0.0	1021.4
	% Fixture	22.5	0.0	22.5
Street Side	Lumens	3514.7	0.0	3514.7
	% Fixture	77.5	0.0	77.5
Total	Lumens	4536.1	0.0	4536.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	55.7	1.2
10°-20°	179.7	4.0
20°-30°	341.0	7.5
30°-40°	537.0	11.8
40°-50°	749.5	16.5
50°-60°	927.0	20.4
60°-70°	960.9	21.2
70°-80°	604.6	13.3
80°-90°	180.7	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°	4536.1	100.0
0°-180°	4536.1	100.0

Coefficient of Utilization



REPORT NUMBER: P158858

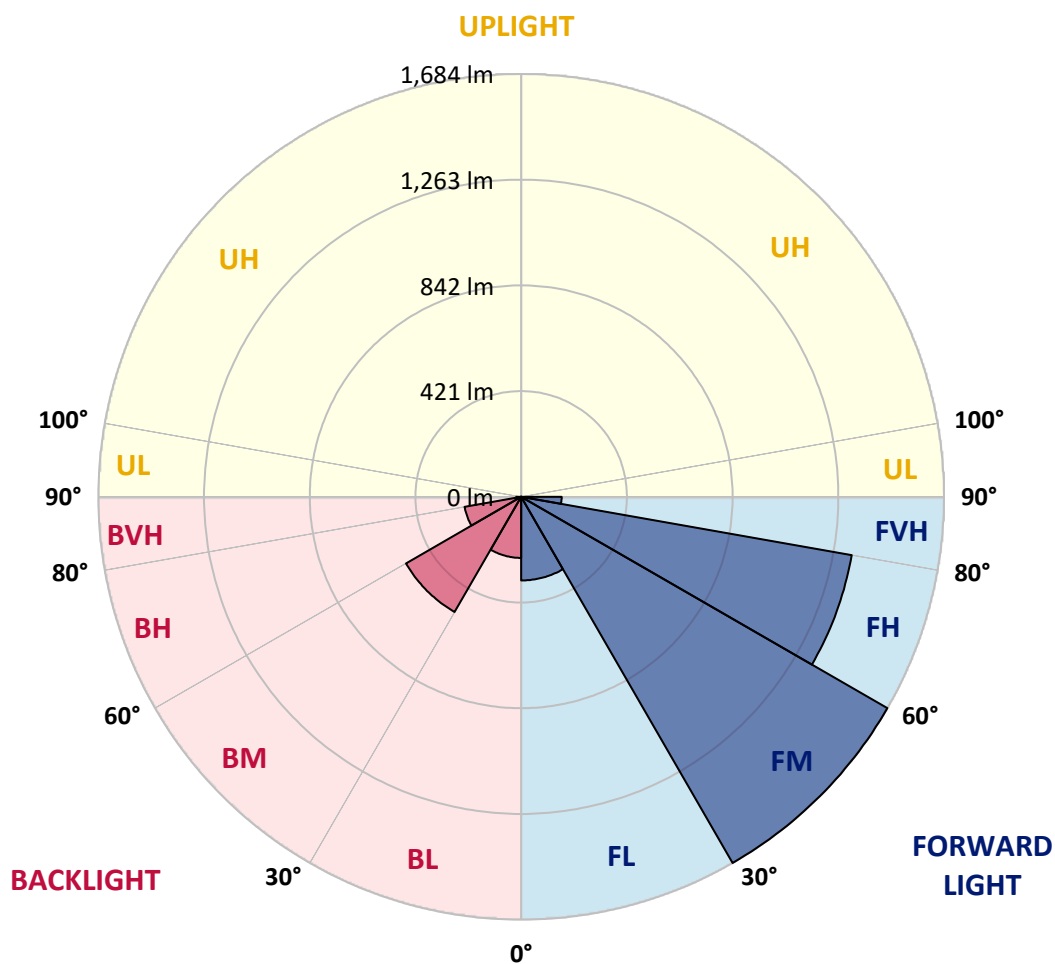
CATALOG NUMBER: VST-E02-LED-E-U-SLL-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	333.0	7.3			
FM	(30°-60°)	1683.9	37.1			
FH	(60°-80°)	1336.7	29.5			G1/1800
FVH	(80°-90°)	161.1	3.6			G2/225
BL	(0°-30°)	243.3	5.4	B1/500		
BM	(30°-60°)	529.6	11.7	B1/1000		
BH	(60°-80°)	228.7	5.0	B1/500		G1/500
BVH	(80°-90°)	19.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





REPORT NUMBER: P158858

CATALOG NUMBER: VST-E02-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1
2.5°	597.5	596.9	596.9	596.9	596.5	595.9	596.9	596.5	594.8	593.8	594.8
5°	605.3	605.6	606.7	607.0	607.0	608.0	610.7	611.0	610.7	611.4	613.1
7.5°	612.7	614.4	615.4	617.1	619.1	620.8	625.6	630.3	633.4	635.7	636.4
10°	624.9	627.6	630.7	635.0	639.7	648.2	652.3	656.9	660.0	664.7	665.8
12.5°	655.9	659.3	661.4	668.1	674.2	682.3	688.0	689.4	696.5	700.5	705.2
15°	708.3	713.3	720.4	724.5	731.2	738.3	743.4	750.1	751.1	756.5	760.3
17.5°	772.4	779.5	794.0	803.8	812.6	819.7	829.8	837.6	839.3	845.3	837.6
20°	862.2	879.4	881.8	901.4	909.1	923.3	943.6	947.3	957.1	947.3	941.6
22.5°	983.8	1010.8	1018.2	1037.1	1046.5	1068.2	1074.2	1094.2	1100.9	1093.5	1078.0
25°	1123.5	1165.4	1187.0	1216.0	1220.8	1265.0	1269.7	1293.0	1280.5	1262.6	1262.9
27.5°	1226.5	1297.7	1353.4	1403.0	1437.8	1487.8	1526.6	1537.4	1525.6	1502.3	1494.2
30°	1285.2	1365.9	1445.9	1514.5	1595.5	1671.8	1751.1	1790.6	1797.4	1809.5	1760.6
32.5°	1323.1	1426.7	1521.9	1606.6	1689.7	1787.9	1894.3	1995.8	2081.3	2145.8	2115.4
35°	1354.8	1482.7	1604.6	1707.2	1805.5	1912.5	2019.8	2139.7	2281.1	2363.8	2381.0
37.5°	1367.6	1523.9	1673.1	1804.8	1942.9	2063.4	2170.1	2276.8	2425.3	2572.8	2618.4
40°	1365.2	1544.2	1714.0	1879.4	2048.5	2199.1	2324.0	2450.3	2624.2	2796.7	2870.9
42.5°	1349.4	1547.2	1740.0	1929.0	2121.8	2322.0	2481.7	2627.2	2794.0	3015.1	3120.1
45°	1329.5	1536.7	1745.4	1954.3	2176.1	2407.7	2609.6	2789.6	2985.0	3203.5	3330.4
47.5°	1302.4	1520.2	1738.6	1963.1	2200.4	2462.8	2700.1	2916.5	3131.5	3383.0	3544.1
50°	1273.1	1496.6	1724.8	1956.7	2206.5	2492.8	2751.7	2998.2	3249.4	3520.8	3724.4
52.5°	1252.5	1471.3	1712.3	1943.5	2200.4	2501.9	2770.7	3042.1	3321.6	3602.2	3845.2
55°	1227.2	1437.5	1678.9	1912.8	2178.2	2496.8	2768.6	3057.3	3341.5	3633.5	3911.0
57.5°	1228.9	1421.9	1650.5	1876.0	2132.6	2449.9	2730.5	3042.1	3310.1	3613.3	3913.4
60°	1282.2	1455.4	1665.4	1883.5	2119.1	2420.2	2665.7	2944.2	3218.0	3543.4	3858.7
62.5°	1392.2	1550.9	1741.7	1957.7	2195.0	2479.6	2636.3	2781.5	3024.5	3414.8	3765.5
65°	1523.6	1666.7	1832.2	2037.7	2303.8	2576.2	2619.7	2649.1	2772.0	3164.6	3590.7
67.5°	1654.9	1782.8	1912.8	2083.3	2365.6	2603.9	2552.2	2482.3	2548.5	2873.9	3247.0
70°	1702.1	1872.0	1957.4	2074.5	2318.6	2539.4	2443.2	2267.3	2290.3	2586.0	2858.8
72.5°	1631.3	1873.3	1901.7	1945.3	2109.7	2317.3	2215.6	1989.5	1984.7	2210.6	2431.0
75°	1368.3	1708.9	1708.6	1692.4	1729.5	1847.6	1795.0	1658.6	1716.4	1894.3	1966.9
77.5°	975.3	1333.5	1350.4	1241.3	1238.6	1292.0	1323.7	1482.4	1691.7	1791.6	1768.7
80°	612.7	899.7	972.3	837.6	808.9	884.5	1080.7	1311.5	1569.1	1658.9	1581.7
82.5°	369.0	579.7	734.3	658.0	651.2	788.9	1005.7	1095.5	1172.8	1268.3	1139.0
85°	250.5	386.2	502.3	517.6	576.6	719.1	813.2	773.5	775.4	750.5	683.6
87.5°	47.9	105.4	172.2	210.0	232.9	313.0	340.3	308.2	325.4	238.0	260.3
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: P158858

CATALOG NUMBER: VST-E02-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1
2.5°	593.2	593.2	593.2	591.5	591.8	589.4	588.4	588.4	587.4	587.4	587.1
5°	611.7	609.7	610.7	610.4	610.4	607.0	605.3	605.3	600.9	601.3	599.9
7.5°	639.4	639.1	640.1	638.0	635.3	632.6	629.9	628.6	622.5	618.8	616.4
10°	670.8	670.4	671.5	671.2	666.4	661.4	653.9	648.5	641.1	635.3	629.6
12.5°	705.2	704.9	704.2	701.2	696.1	688.0	678.5	669.5	658.3	650.9	642.4
15°	758.9	757.9	753.8	749.5	744.1	731.6	715.0	701.9	687.0	674.2	660.4
17.5°	838.3	829.8	829.1	819.4	804.8	788.3	772.7	750.8	729.5	710.3	691.4
20°	947.6	928.1	922.7	911.5	892.3	875.0	841.3	811.9	782.9	756.5	732.6
22.5°	1066.8	1052.6	1039.4	1021.2	994.9	969.9	927.1	890.2	853.1	819.4	792.7
25°	1233.2	1208.6	1184.9	1155.9	1119.5	1089.8	1040.8	1003.7	955.1	924.4	885.8
27.5°	1448.3	1406.1	1366.3	1341.3	1277.1	1233.9	1171.4	1123.5	1064.8	1023.2	977.7
30°	1728.2	1679.2	1620.1	1533.7	1457.4	1371.7	1294.3	1232.9	1170.4	1112.4	1059.7
32.5°	2075.2	1988.8	1895.3	1758.2	1633.0	1510.7	1407.8	1332.2	1268.3	1196.1	1121.8
35°	2368.6	2279.5	2146.8	1972.6	1817.9	1678.2	1555.0	1451.6	1368.3	1276.8	1178.5
37.5°	2600.2	2498.6	2374.0	2189.0	2025.6	1866.6	1737.3	1605.6	1496.2	1370.3	1246.1
40°	2865.5	2763.5	2626.5	2434.7	2241.3	2068.8	1917.2	1781.2	1646.8	1493.2	1333.5
42.5°	3096.8	3023.2	2884.4	2686.3	2471.9	2279.8	2114.0	1958.4	1782.8	1611.0	1421.9
45°	3337.8	3262.9	3131.2	2923.9	2696.0	2482.0	2283.8	2116.4	1909.1	1704.5	1488.1
47.5°	3550.9	3473.9	3340.9	3134.9	2892.8	2667.4	2449.3	2246.7	2006.0	1771.0	1531.3
50°	3754.1	3659.9	3538.0	3332.8	3074.2	2833.1	2596.4	2336.5	2081.3	1817.6	1560.7
52.5°	3940.7	3820.9	3705.5	3494.1	3214.6	2962.7	2698.7	2412.8	2127.5	1854.4	1580.6
55°	4046.8	3969.5	3831.4	3623.8	3314.5	3051.9	2763.5	2466.5	2173.4	1880.4	1589.0
57.5°	4079.5	4060.6	3944.8	3698.7	3373.3	3100.8	2807.5	2509.0	2204.2	1887.8	1577.3
60°	4053.5	4088.0	4024.5	3751.4	3400.0	3115.3	2829.1	2539.4	2209.6	1864.2	1541.5
62.5°	3970.1	4048.4	4040.3	3768.9	3386.1	3097.1	2826.7	2523.9	2158.9	1790.6	1461.1
65°	3833.0	3931.6	3966.4	3703.7	3308.1	3030.6	2766.6	2426.3	2018.2	1646.8	1326.4
67.5°	3575.2	3724.4	3758.1	3490.4	3104.2	2846.6	2593.4	2223.7	1757.5	1424.3	1116.1
70°	3058.3	3319.3	3364.8	3083.9	2744.6	2518.4	2303.8	1902.7	1463.5	1142.4	856.5
72.5°	2441.5	2605.6	2698.7	2505.3	2252.8	2088.7	1926.0	1459.7	1104.3	843.0	589.4
75°	1908.8	1899.0	1982.3	1853.8	1705.2	1628.6	1506.4	1018.5	739.7	558.4	373.0
77.5°	1631.9	1506.4	1411.5	1321.0	1232.9	1208.6	1091.5	632.0	457.1	334.6	223.1
80°	1356.5	1127.2	954.1	826.8	795.4	843.3	714.4	372.7	270.8	192.1	140.1
82.5°	969.2	810.9	660.0	579.3	525.7	601.9	421.3	206.9	146.9	115.1	92.8
85°	628.3	600.6	594.2	567.8	502.7	474.7	320.0	178.3	110.0	71.6	57.7
87.5°	241.7	309.9	357.5	383.2	414.2	369.0	166.8	61.4	60.4	37.1	28.0
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: P158858

CATALOG NUMBER: VST-E02-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1
2.5°	584.7	583.4	583.0	582.0	581.3	581.3	579.7	548.9	548.6	548.6	548.3
5°	597.2	595.5	593.8	593.5	592.1	592.1	590.5	559.7	559.7	559.7	559.1
7.5°	614.1	610.7	608.7	607.7	605.6	606.7	608.0	577.0	577.3	577.0	577.6
10°	626.2	624.2	621.8	621.2	619.8	620.8	622.9	592.1	593.2	593.5	594.2
12.5°	638.0	634.7	631.6	630.7	629.9	632.6	635.0	605.3	606.3	607.3	607.3
15°	652.6	646.9	642.8	640.4	639.1	641.8	645.1	615.8	616.1	617.1	616.8
17.5°	677.2	668.8	659.3	657.7	653.2	654.2	655.0	622.2	620.8	618.5	614.4
20°	715.4	702.5	689.7	684.3	675.5	671.8	664.4	622.5	614.1	607.0	600.9
22.5°	770.0	751.1	737.3	728.2	710.3	697.8	677.6	620.8	605.0	592.8	583.4
25°	858.5	835.9	814.6	791.6	763.6	738.7	709.0	635.7	611.0	590.1	571.9
27.5°	944.6	908.8	876.1	841.6	802.1	764.6	722.8	640.4	612.4	585.4	555.7
30°	1009.1	957.1	907.4	857.2	805.5	756.9	709.6	624.2	590.8	560.4	529.0
32.5°	1048.3	980.7	916.3	853.8	793.0	738.3	685.3	596.2	559.4	523.6	490.2
35°	1085.4	1001.6	921.7	848.0	778.5	717.7	660.7	563.5	519.5	481.4	439.2
37.5°	1131.3	1023.6	925.0	837.6	757.2	687.7	624.9	522.2	478.4	431.5	391.6
40°	1186.3	1046.2	921.7	816.7	724.1	648.2	581.7	479.0	430.1	384.5	345.4
42.5°	1238.6	1066.1	912.8	788.6	688.0	607.0	542.2	440.6	391.6	345.0	306.2
45°	1277.5	1083.0	908.5	769.0	660.4	579.0	507.4	409.5	357.8	310.9	271.4
47.5°	1304.5	1093.1	906.4	758.2	641.1	550.0	475.7	378.4	324.1	276.8	238.3
50°	1318.7	1092.8	901.4	746.4	612.7	515.2	442.9	347.0	293.0	246.8	211.7
52.5°	1322.3	1086.7	890.6	724.8	578.3	480.4	407.8	314.3	265.7	221.5	186.0
55°	1313.9	1071.8	868.0	688.7	541.5	443.6	375.7	288.7	239.0	197.2	169.5
57.5°	1289.9	1045.6	825.4	639.1	502.7	409.5	338.9	257.6	210.0	174.9	151.9
60°	1245.4	989.8	758.9	580.3	453.4	357.5	288.3	217.1	179.3	152.9	134.3
62.5°	1163.0	902.4	665.4	499.3	382.5	290.0	230.2	173.2	144.8	127.6	116.2
65°	1030.3	770.8	557.0	393.3	290.7	211.0	171.2	130.3	109.7	99.2	95.9
67.5°	841.0	595.2	405.1	273.1	196.8	147.8	119.2	95.2	85.4	81.4	80.0
70°	611.4	405.5	262.3	172.5	130.0	103.3	90.1	76.6	71.2	70.2	70.2
72.5°	383.8	246.4	160.7	118.1	98.6	83.7	77.0	67.5	65.5	64.8	63.8
75°	225.2	149.6	113.8	96.9	84.4	74.9	69.2	61.4	60.1	59.8	58.7
77.5°	143.5	107.7	91.8	82.7	76.3	67.9	62.8	54.7	54.4	54.0	53.7
80°	103.0	89.5	80.3	73.3	66.8	59.1	56.0	49.6	49.0	48.6	49.3
82.5°	78.0	73.9	70.2	64.8	56.0	50.3	47.9	43.6	43.9	42.2	41.9
85°	53.7	53.0	52.7	50.3	43.9	38.8	37.1	34.8	36.5	34.8	32.8
87.5°	26.3	26.0	23.9	28.4	26.3	20.9	18.9	20.9	23.3	22.6	20.9
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: P158858

CATALOG NUMBER: VST-E02-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°	185°	190°	195°	200°	205°	210°	215°
0°	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1
2.5°	546.9	545.6	546.5	545.9	545.9	545.6	546.2	545.2	544.6	545.2	545.6
5°	557.7	556.0	556.4	554.0	555.0	552.7	553.3	551.6	550.0	549.2	549.2
7.5°	575.9	574.3	572.2	571.9	568.2	566.8	564.5	563.1	562.1	559.7	558.4
10°	592.5	589.8	587.4	587.1	583.4	580.0	577.0	574.3	572.6	569.2	567.5
12.5°	606.0	603.3	599.6	597.5	593.8	589.8	587.8	583.7	581.3	577.6	574.6
15°	613.7	609.0	603.6	599.9	594.5	590.1	587.1	584.0	581.7	577.0	572.6
17.5°	610.0	602.3	594.8	588.1	580.7	576.6	572.2	568.5	567.8	562.4	555.7
20°	594.5	585.4	575.6	566.5	556.7	551.0	545.6	539.8	538.1	531.7	523.0
22.5°	575.6	565.1	554.0	542.9	530.3	522.2	514.1	507.1	501.4	491.9	479.4
25°	556.4	540.8	524.6	510.4	495.9	485.8	477.4	469.6	462.8	447.7	434.8
27.5°	531.1	506.8	490.2	474.0	456.4	443.3	433.8	423.0	415.6	398.0	384.5
30°	498.6	474.3	450.7	434.5	416.9	402.8	390.6	375.1	364.3	351.4	338.9
32.5°	457.8	433.5	409.5	391.3	376.7	359.2	344.0	329.2	316.7	304.2	294.4
35°	408.2	384.5	361.9	343.7	327.5	313.6	299.1	286.3	272.1	258.6	252.8
37.5°	355.8	330.5	305.5	289.7	276.8	267.1	253.6	243.1	230.2	222.1	215.4
40°	310.3	283.3	259.6	246.1	236.0	224.8	213.7	205.6	196.5	188.4	183.3
42.5°	271.7	246.4	226.2	214.7	202.6	190.4	182.0	175.2	169.5	163.4	157.3
45°	236.3	212.0	195.1	181.0	170.8	161.0	155.3	152.3	148.9	145.1	141.1
47.5°	206.6	185.7	169.1	155.9	145.5	138.8	136.1	135.1	133.7	130.6	128.6
50°	184.0	166.8	149.9	138.1	129.3	125.9	122.9	121.9	120.2	119.2	117.8
52.5°	165.1	146.9	132.7	121.9	116.5	115.1	113.8	112.4	112.1	111.4	110.8
55°	149.6	133.7	120.5	112.4	109.7	108.7	108.4	107.0	106.7	106.7	105.7
57.5°	135.7	122.2	110.4	105.4	103.6	102.6	101.9	101.3	101.3	101.9	101.6
60°	121.6	110.0	103.0	100.3	99.2	97.6	95.9	95.2	95.5	97.2	97.2
62.5°	107.7	99.2	94.9	93.8	92.8	91.5	89.5	88.8	89.5	91.5	92.5
65°	92.5	88.8	87.4	86.8	86.1	85.1	83.7	83.0	83.4	84.4	85.7
67.5°	78.7	78.3	78.3	78.7	78.3	78.0	77.3	76.3	76.0	76.0	76.6
70°	70.2	70.2	71.2	71.2	70.9	70.9	69.9	68.9	68.2	67.5	67.9
72.5°	63.8	63.8	64.1	64.5	64.1	64.1	62.8	62.1	60.4	60.1	59.4
75°	58.4	57.7	57.7	57.4	57.1	57.4	56.0	54.4	53.7	53.3	52.7
77.5°	53.0	51.7	51.0	50.3	50.6	50.3	49.3	48.3	47.3	46.9	46.6
80°	46.9	44.9	43.9	42.2	43.2	43.6	42.9	41.9	41.5	41.2	40.9
82.5°	38.8	36.8	35.5	34.4	33.8	34.4	35.5	37.8	37.1	36.8	36.1
85°	30.4	27.0	25.3	25.7	23.9	24.3	27.4	28.7	28.7	29.4	28.7
87.5°	17.2	16.6	12.5	11.5	12.2	14.5	16.2	17.9	17.9	16.9	18.9
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: P158858

CATALOG NUMBER: VST-E02-LED-E-U-SLL-8030

CANDELA DISTRIBUTION (continued):

	220°	225°	230°	235°	240°	245°	250°	255°	260°	265°	270°
0°	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1
2.5°	545.6	546.2	546.5	547.9	548.6	548.9	549.2	550.0	550.3	550.0	551.6
5°	548.3	548.3	547.6	548.6	548.9	548.9	548.3	548.9	548.9	548.9	550.6
7.5°	555.4	553.3	552.3	551.0	550.0	548.6	546.9	546.9	546.5	546.9	547.9
10°	562.8	559.7	556.0	552.7	549.6	547.3	544.2	543.2	542.9	542.5	545.2
12.5°	568.5	563.1	557.4	551.6	545.6	541.5	536.5	533.4	533.0	533.0	536.5
15°	564.5	555.7	544.6	534.4	529.0	523.3	517.6	513.8	513.5	514.1	516.2
17.5°	544.2	530.0	520.3	510.4	503.3	498.6	494.9	494.2	495.6	494.2	496.9
20°	509.8	494.6	487.8	480.1	477.4	474.0	468.6	463.9	463.9	457.8	459.5
22.5°	465.2	456.8	448.0	441.9	439.9	434.2	428.4	422.0	421.3	413.9	412.9
25°	418.6	410.2	403.1	401.8	395.6	387.9	382.5	375.1	373.4	365.9	364.9
27.5°	371.0	364.3	357.2	353.1	349.7	341.3	336.6	327.8	324.4	316.3	315.3
30°	325.8	321.1	312.6	309.2	302.8	293.0	282.9	277.5	274.8	266.3	263.6
32.5°	283.3	275.8	269.4	265.4	257.2	246.1	237.0	229.2	224.2	214.0	211.3
35°	242.8	235.3	232.3	221.8	214.7	207.3	194.8	190.1	181.0	173.2	170.5
37.5°	206.9	199.9	195.8	187.0	179.9	172.5	165.1	159.0	154.6	152.9	152.9
40°	176.2	172.5	167.5	161.0	156.3	150.9	146.9	144.8	144.5	145.1	146.9
42.5°	154.3	150.2	146.9	143.5	140.1	139.4	138.4	139.7	141.5	143.2	144.8
45°	137.8	134.3	132.4	131.0	130.6	131.6	133.7	135.7	138.8	140.8	142.1
47.5°	125.9	123.2	122.5	122.2	123.9	127.0	129.7	132.7	135.1	137.0	138.4
50°	115.8	113.5	113.1	112.7	115.1	117.8	120.2	124.3	125.9	127.3	128.3
52.5°	108.7	106.7	105.7	106.0	108.4	110.8	114.1	117.1	119.5	120.5	121.6
55°	103.0	102.3	99.9	100.9	103.3	106.3	109.7	113.1	115.4	117.1	118.9
57.5°	98.6	96.9	95.2	96.9	99.2	102.3	106.3	109.4	112.4	114.8	116.5
60°	93.8	92.5	91.1	92.8	95.2	98.2	101.3	105.4	109.0	111.4	113.1
62.5°	89.8	88.8	87.4	87.8	88.8	90.8	92.5	96.2	99.6	102.6	104.6
65°	84.1	83.7	81.7	82.0	82.7	84.7	86.1	89.5	92.8	95.5	97.2
67.5°	75.6	74.9	74.9	76.0	76.3	77.3	78.3	81.7	84.4	86.4	88.4
70°	67.2	66.8	66.8	67.5	67.2	68.2	69.5	72.6	76.0	78.0	80.0
72.5°	59.1	59.1	58.7	59.4	59.4	59.8	61.4	64.1	67.2	68.9	70.2
75°	52.0	51.7	51.7	51.7	52.0	52.0	53.7	56.0	59.1	60.1	62.1
77.5°	45.6	45.6	45.6	45.6	45.9	45.6	46.6	48.3	49.3	51.0	51.0
80°	40.2	39.8	40.2	40.5	40.5	40.2	40.2	40.5	40.9	40.9	40.9
82.5°	35.5	34.4	35.1	36.8	36.8	36.8	36.5	34.1	32.4	32.4	33.1
85°	28.4	28.4	28.7	31.1	31.4	30.1	31.4	28.0	24.7	23.6	24.3
87.5°	17.6	13.9	16.9	19.3	19.3	18.2	20.3	18.9	15.8	12.8	12.2
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: P158858
CATALOG NUMBER: VST-E02-LED-E-U-SLL-8030

REPORT N
CATALOG

CANDELA DISTRIBUTION (continued):

CANDELA

	275°	280°	285°	290°	295°	300°	305°	310°	315°	320°	325°	
0°	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	564.1	0°
2.5°	553.0	553.3	555.4	556.4	556.4	557.7	558.4	560.4	560.1	560.1	560.8	2.5°
5°	552.3	553.3	555.4	556.7	557.4	559.1	560.4	562.8	562.4	563.1	563.5	5°
7.5°	550.0	552.7	554.7	557.4	559.7	561.1	562.8	564.8	564.1	564.5	564.1	7.5°
10°	547.9	550.6	554.7	558.4	561.8	563.8	564.8	567.2	566.8	567.5	567.5	10°
12.5°	539.8	544.6	549.6	555.4	560.4	565.8	569.2	574.3	576.6	579.7	583.0	12.5°
15°	519.2	524.6	532.7	539.2	548.9	556.4	566.2	575.9	584.7	593.2	602.9	15°
17.5°	499.0	501.4	507.7	516.5	525.3	536.5	548.3	565.8	581.7	598.9	617.8	17.5°
20°	461.5	465.5	469.9	480.4	490.9	506.8	521.2	544.2	567.5	594.5	623.5	20°
22.5°	415.3	419.3	424.0	435.8	448.7	464.9	482.4	508.1	539.2	574.3	613.1	22.5°
25°	365.3	367.6	371.3	383.2	391.0	412.2	433.5	460.1	493.9	539.2	584.4	25°
27.5°	310.3	314.6	317.7	323.1	341.0	359.2	381.5	410.2	451.0	497.3	552.0	27.5°
30°	257.6	261.3	259.6	271.1	282.9	302.2	326.1	357.8	397.0	452.0	515.2	30°
32.5°	205.9	208.6	207.6	215.7	227.5	246.8	269.4	303.8	345.4	404.1	472.6	32.5°
35°	169.8	170.5	174.2	177.9	188.0	203.6	222.8	252.8	295.4	349.4	422.0	35°
37.5°	152.9	154.3	156.7	161.7	169.1	180.3	196.1	219.4	255.9	303.5	368.3	37.5°
40°	147.8	148.9	150.2	153.6	160.7	170.5	184.7	204.2	230.9	271.1	323.8	40°
42.5°	145.5	145.5	145.5	147.5	152.9	163.4	179.6	198.8	222.1	252.5	295.1	42.5°
45°	142.1	142.1	141.8	142.8	146.5	157.0	174.5	196.1	221.1	250.1	287.0	45°
47.5°	138.4	138.1	137.0	137.0	139.4	149.9	168.1	191.4	218.8	252.2	291.7	47.5°
50°	128.3	128.3	128.3	129.3	131.3	140.8	160.4	185.0	216.4	253.6	299.1	50°
52.5°	122.5	122.9	123.9	123.9	125.9	135.7	156.3	183.7	217.7	258.6	308.6	52.5°
55°	119.8	120.8	121.9	121.9	123.5	133.7	155.0	184.7	222.8	269.0	324.8	55°
57.5°	117.5	118.5	119.2	119.2	120.5	129.3	151.3	183.0	225.8	279.2	344.7	57.5°
60°	113.1	113.8	114.1	114.1	114.4	121.9	142.8	174.9	219.1	278.5	355.5	60°
62.5°	105.0	106.3	106.7	107.0	107.0	114.1	132.0	161.7	204.6	268.4	352.4	62.5°
65°	98.9	99.6	100.6	101.3	102.6	107.3	121.6	145.9	185.7	248.2	335.6	65°
67.5°	89.5	90.5	91.5	92.8	94.2	97.2	108.4	127.9	160.0	213.7	297.8	67.5°
70°	81.0	81.4	82.4	84.1	84.4	86.1	94.2	107.7	131.0	171.5	239.7	70°
72.5°	70.6	71.2	72.6	74.6	74.6	76.0	80.7	87.8	102.6	131.0	176.9	72.5°
75°	61.4	62.1	63.1	63.1	61.4	61.8	65.2	70.2	81.4	98.6	128.9	75°
77.5°	51.0	52.3	53.3	51.3	50.6	51.7	53.3	57.1	65.2	78.3	96.9	77.5°
80°	42.2	42.9	43.2	43.6	42.9	43.9	45.2	47.6	53.0	63.1	76.6	80°
82.5°	33.8	34.4	35.5	36.8	36.8	40.5	40.9	40.9	43.9	50.3	60.1	82.5°
85°	25.0	26.3	27.7	29.4	29.7	31.7	30.7	30.4	31.4	37.5	41.5	85°
87.5°	12.8	13.9	14.5	15.8	14.2	14.9	14.9	13.9	12.2	15.2	16.9	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: P158858

NUMBER: VST-E02-LED-E-U-SLL-8030

DISTRIBUTION (continued):

330°	335°	340°	345°	350°	355°	360°
564.1	564.1	564.1	564.1	564.1	564.1	564.1
561.4	560.8	561.4	561.4	562.4	561.8	597.5
564.1	563.5	564.1	564.8	565.8	565.8	605.3
564.5	564.5	563.8	565.5	566.8	568.2	612.7
568.5	568.5	569.2	569.5	572.6	575.9	624.9
585.1	586.7	589.8	590.8	596.2	599.9	655.9
610.4	619.8	625.9	627.9	632.6	639.7	708.3
636.1	651.9	668.5	678.5	684.7	693.1	772.4
655.3	685.0	713.3	738.7	753.2	769.7	862.2
656.9	704.2	752.2	799.1	837.9	868.6	983.8
640.7	702.9	769.0	841.0	907.8	963.2	1123.5
620.2	696.5	780.8	872.7	960.5	1042.1	1226.5
594.2	685.7	782.9	886.2	989.2	1087.4	1285.2
554.7	653.6	758.6	872.7	992.2	1111.7	1323.1
504.1	605.0	712.7	842.6	978.0	1121.5	1354.8
452.4	552.0	667.7	802.4	955.4	1119.8	1367.6
397.7	496.6	615.1	759.6	924.7	1104.3	1365.2
360.5	450.7	566.8	716.0	890.6	1083.7	1349.4
338.9	418.0	528.7	676.2	859.5	1059.1	1329.5
338.6	408.2	508.4	647.8	828.1	1031.7	1302.4
350.4	414.2	506.0	635.7	810.9	1011.8	1273.1
364.3	431.1	518.5	640.1	810.5	1003.0	1252.5
386.2	459.8	545.9	659.0	819.4	1001.6	1227.2
414.2	498.6	595.2	705.6	853.4	1028.3	1228.9
442.9	544.2	659.6	785.2	920.6	1090.4	1282.2
453.4	579.3	725.2	878.8	1021.2	1183.6	1392.2
444.3	587.4	765.0	951.4	1119.1	1292.6	1523.6
410.5	554.7	748.8	971.9	1175.5	1370.0	1654.9
337.9	473.3	675.2	925.7	1171.1	1385.8	1702.1
247.8	367.0	548.9	786.6	1041.1	1286.6	1631.3
178.9	259.6	396.4	592.5	823.1	1036.1	1368.3
128.3	179.9	257.2	389.2	560.8	721.4	975.3
92.2	122.2	160.4	233.6	341.6	442.9	612.7
67.9	83.7	105.4	145.1	201.2	257.9	369.0
46.3	49.3	63.5	85.7	132.0	189.7	250.5
17.6	19.9	23.3	35.1	59.1	67.9	47.9
0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)