

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: P158225

Luminaire Tested: **VST-F04-LED-E-U-SL2**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158225
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33712)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F04-LED-E-U-SL2
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9935.3 lumens
Efficiency: N/A
Efficacy: 97.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.2
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

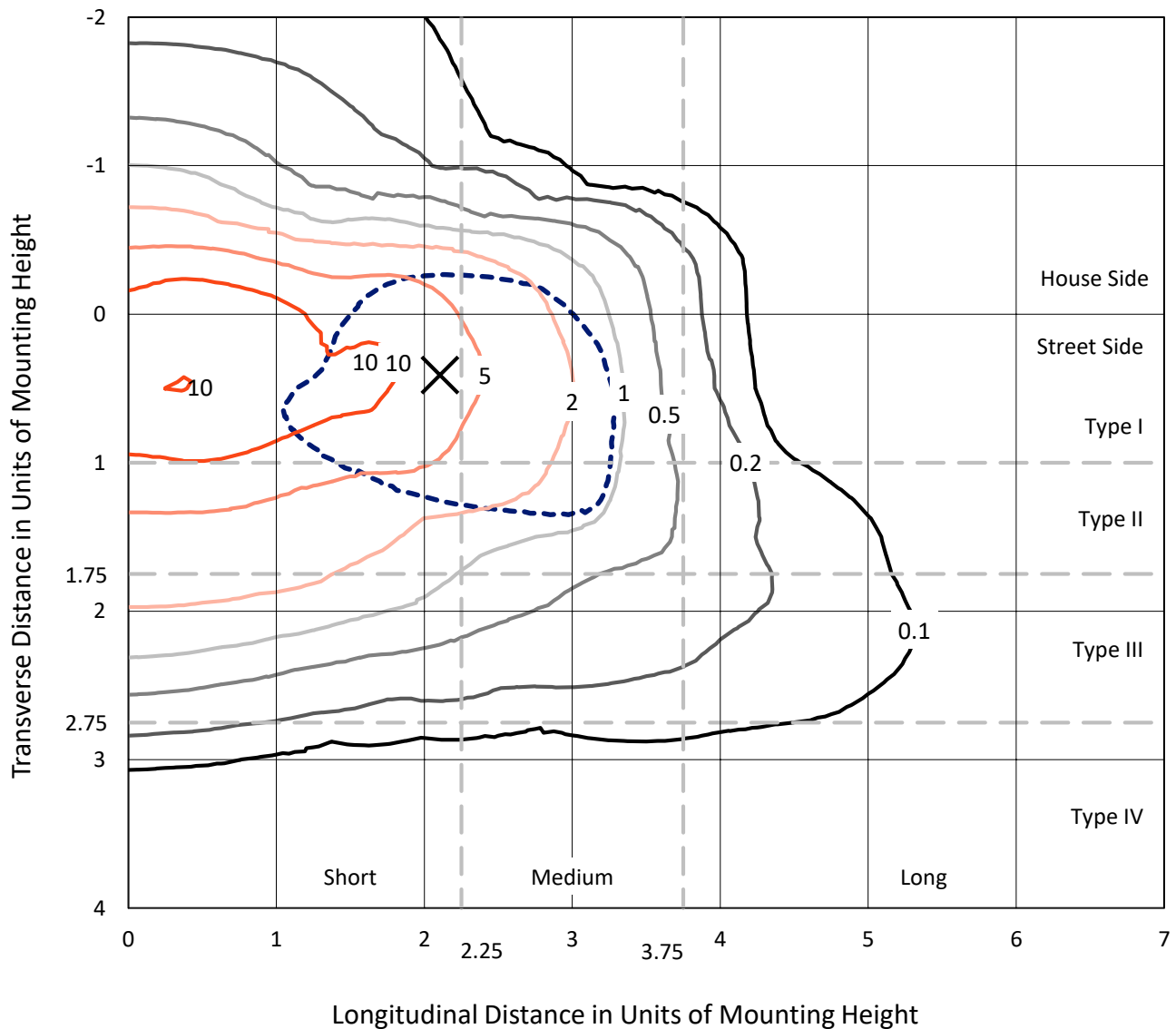


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

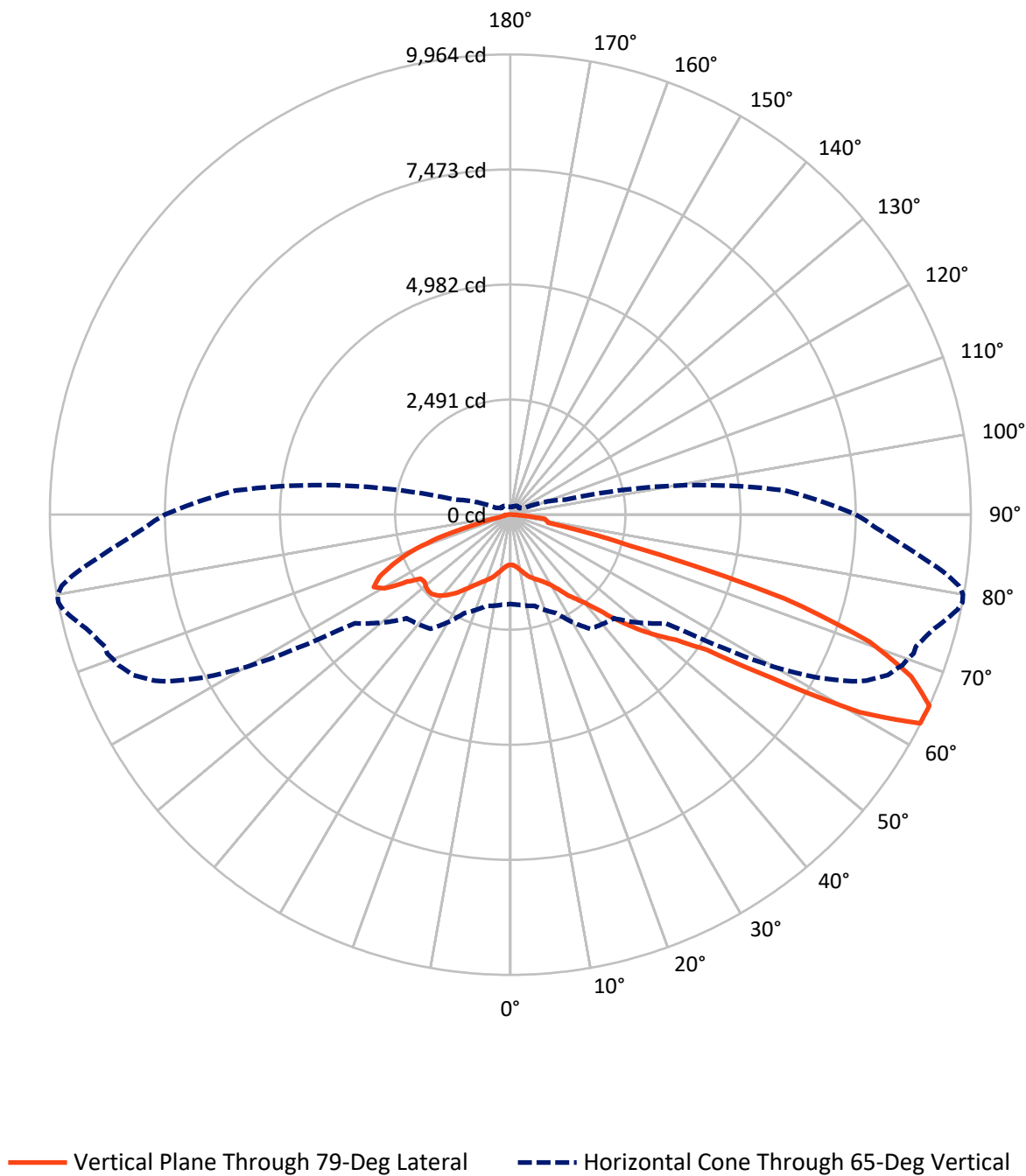


Based on 10 foot mounting height. Maximum calculated value = 14.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2282.9	0.0	2282.9
	% Fixture	23.0	0.0	23.0
Street Side	Lumens	7652.3	0.0	7652.3
	% Fixture	77.0	0.0	77.0
Total	Lumens	9935.3	0.0	9935.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	107.6	1.1
10°-20°	349.3	3.5
20°-30°	602.2	6.1
30°-40°	986.3	9.9
40°-50°	1651.8	16.6
50°-60°	2234.3	22.5
60°-70°	2751.5	27.7
70°-80°	1065.1	10.7
80°-90°	187.3	1.9
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°	9935.3	100.0
0°-180°	9935.3	100.0

Coefficient of Utilization



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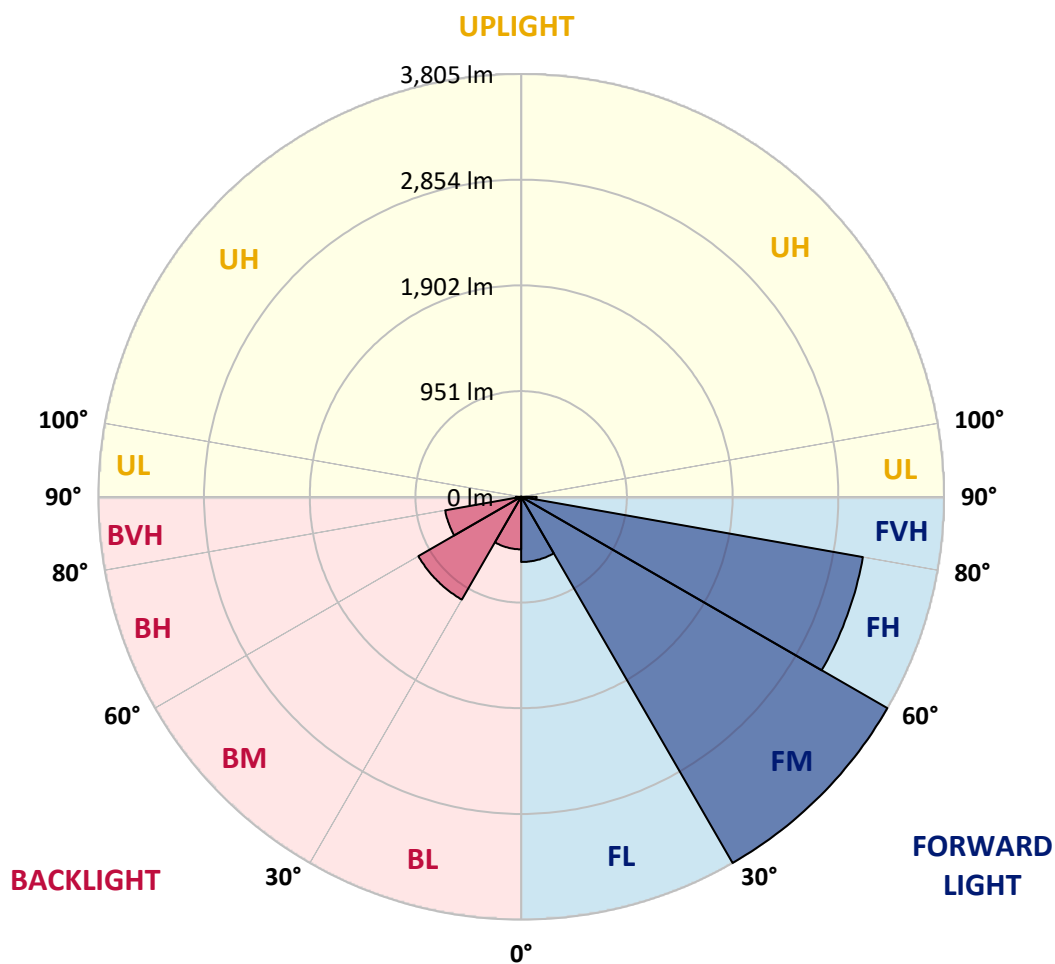
CATALOG NUMBER: VST-F04-LED-E-U-SL2

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	586.6	5.9			
FM	(30°-60°)	3804.8	38.3			
FH	(60°-80°)	3122.0	31.4			G2/5000
FVH	(80°-90°)	139.0	1.4			G2/225
BL	(0°-30°)	472.5	4.8	B1/500		
BM	(30°-60°)	1067.6	10.7	B2/2500		
BH	(60°-80°)	694.6	7.0	B2/1000		G2/1000
BVH	(80°-90°)	48.3	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1
2.5°	1089.0	1085.7	1089.0	1091.7	1093.7	1096.3	1095.6	1095.0	1094.3	1095.0	1095.0
5°	1098.3	1097.6	1100.9	1103.6	1108.2	1111.5	1115.4	1115.4	1115.4	1114.8	1116.1
7.5°	1128.0	1127.3	1130.6	1133.3	1137.2	1143.8	1149.1	1151.8	1151.1	1151.1	1151.1
10°	1176.9	1174.2	1174.2	1174.2	1179.5	1184.1	1196.0	1197.3	1200.0	1198.7	1199.3
12.5°	1224.4	1225.1	1223.1	1221.1	1221.8	1231.0	1248.2	1251.5	1252.2	1254.1	1255.5
15°	1267.3	1266.7	1262.1	1257.4	1263.4	1279.2	1301.7	1307.6	1307.6	1311.6	1314.2
17.5°	1307.0	1305.7	1297.1	1289.1	1295.1	1322.2	1357.2	1361.1	1367.1	1369.1	1371.7
20°	1353.9	1351.2	1341.3	1320.2	1320.2	1357.2	1403.4	1407.4	1412.6	1414.0	1418.6
22.5°	1419.2	1412.6	1391.5	1353.2	1342.6	1385.6	1442.4	1444.3	1448.3	1453.6	1457.5
25°	1493.2	1494.5	1460.2	1393.5	1370.4	1415.3	1480.0	1483.3	1490.6	1494.5	1499.2
27.5°	1569.8	1571.8	1533.5	1450.3	1411.3	1456.2	1530.9	1534.8	1543.4	1548.0	1555.3
30°	1657.0	1659.6	1622.7	1538.8	1479.3	1516.3	1606.1	1616.7	1624.0	1629.9	1641.8
32.5°	1866.3	1850.5	1824.7	1735.6	1641.8	1639.2	1727.7	1739.5	1749.5	1762.0	1773.2
35°	2129.9	2139.8	2153.0	2092.9	2010.3	1950.2	1957.5	1950.9	1960.1	1978.6	1989.8
37.5°	2338.5	2360.3	2417.8	2456.8	2453.5	2441.6	2330.6	2330.6	2336.6	2326.7	2325.3
40°	2502.3	2516.2	2633.8	2785.0	2912.5	2975.2	2887.4	2874.8	2881.4	2830.6	2832.5
42.5°	2586.9	2607.3	2776.4	3041.9	3294.8	3496.3	3469.2	3460.6	3440.8	3428.2	3420.3
45°	2629.8	2654.2	2855.7	3220.2	3588.7	3899.8	4039.8	4038.5	4020.6	4006.1	3999.5
47.5°	2608.0	2629.1	2843.8	3274.4	3743.3	4160.0	4469.7	4488.9	4483.6	4504.7	4513.3
50°	2465.3	2492.4	2707.7	3157.5	3678.5	4262.4	4767.6	4803.2	4851.4	4881.8	4922.1
52.5°	2336.6	2359.0	2553.2	2967.9	3465.9	4179.1	4947.2	5020.5	5086.6	5148.6	5196.8
55°	2201.8	2224.3	2394.7	2771.1	3251.2	3933.5	5029.1	5136.1	5239.1	5344.1	5440.5
57.5°	2151.0	2174.8	2301.6	2618.6	3075.6	3689.8	5069.4	5245.1	5412.8	5591.1	5776.0
60°	2283.1	2304.2	2400.6	2622.5	2941.5	3446.1	4988.2	5264.2	5552.8	5846.7	6130.7
62.5°	2242.8	2254.0	2374.2	2718.3	3112.6	3205.7	4636.1	5000.7	5420.1	5850.7	6285.9
65°	1935.0	1956.8	2047.3	2349.8	3016.8	3173.3	4099.9	4466.4	4961.1	5470.3	6053.4
67.5°	1388.2	1357.8	1427.8	1692.7	2340.5	3168.0	3496.3	3767.7	4155.4	4545.7	5023.8
70°	630.7	616.2	671.0	880.3	1412.0	2503.7	2956.0	3047.8	3191.8	3454.7	3777.6
72.5°	249.0	248.3	284.0	363.9	667.7	1611.4	2485.8	2538.7	2589.5	2703.8	2843.1
75°	163.1	163.1	173.7	196.1	328.9	778.0	2102.8	2151.0	2228.9	2261.3	2320.7
77.5°	122.8	123.5	128.1	133.4	181.6	409.5	1484.0	1655.0	1787.1	1885.5	1957.5
80°	87.2	91.1	99.7	103.0	118.2	233.1	838.7	962.2	1111.5	1270.6	1470.8
82.5°	65.4	70.0	84.5	88.5	93.8	132.7	378.4	429.3	501.3	649.9	934.5
85°	30.4	33.7	58.1	63.4	68.0	76.6	192.2	214.6	243.7	266.8	311.1
87.5°	4.6	3.3	9.9	13.9	21.8	22.5	66.0	78.6	85.2	102.4	106.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: VST-F04-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1
2.5°	1095.0	1095.6	1096.3	1095.0	1095.6	1095.6	1094.3	1093.7	1093.7	1093.7	1094.3
5°	1116.1	1117.4	1116.1	1116.8	1119.4	1118.8	1117.4	1116.8	1119.4	1120.1	1118.1
7.5°	1153.8	1154.4	1151.8	1155.1	1156.4	1157.1	1157.1	1158.4	1158.4	1160.4	1158.4
10°	1202.0	1202.0	1206.6	1205.9	1206.6	1207.9	1208.6	1211.2	1213.2	1213.2	1214.5
12.5°	1257.4	1258.1	1262.7	1263.4	1266.0	1266.7	1270.6	1268.0	1274.6	1274.6	1276.6
15°	1314.9	1319.5	1320.2	1326.8	1328.1	1328.8	1334.0	1334.0	1338.7	1339.3	1340.7
17.5°	1371.7	1375.7	1378.3	1383.6	1388.2	1390.2	1392.2	1396.1	1399.4	1400.8	1404.1
20°	1420.6	1424.5	1427.2	1432.5	1436.4	1439.7	1441.7	1446.3	1449.6	1450.9	1455.6
22.5°	1461.5	1464.2	1468.8	1476.0	1477.4	1481.3	1487.3	1490.6	1491.9	1495.9	1501.1
25°	1505.1	1509.1	1511.7	1518.3	1523.6	1530.2	1535.5	1540.8	1542.1	1547.4	1552.0
27.5°	1563.2	1567.2	1567.8	1581.0	1586.3	1595.6	1601.5	1609.4	1613.4	1618.0	1627.3
30°	1649.1	1658.3	1662.3	1677.5	1680.1	1690.7	1701.2	1703.9	1709.8	1710.5	1725.7
32.5°	1780.5	1793.7	1799.0	1814.8	1818.8	1828.7	1834.6	1848.5	1849.2	1855.8	1859.1
35°	1995.8	1992.5	2013.0	2016.9	2028.8	2037.4	2043.3	2043.3	2055.9	2056.5	2060.5
37.5°	2289.7	2283.1	2288.4	2264.6	2270.5	2260.0	2258.0	2260.6	2255.3	2256.7	2256.0
40°	2759.9	2730.2	2699.1	2625.8	2610.0	2579.6	2555.8	2536.7	2518.2	2498.4	2485.2
42.5°	3349.6	3306.7	3260.5	3142.9	3088.1	3029.3	2971.9	2938.9	2872.8	2832.5	2810.7
45°	3967.8	3917.6	3852.9	3755.1	3677.2	3614.5	3509.5	3459.9	3357.6	3306.7	3238.0
47.5°	4474.3	4475.0	4422.8	4323.8	4240.6	4198.9	4133.6	4037.8	3921.6	3856.2	3734.0
50°	4917.5	4916.8	4913.5	4854.1	4796.0	4750.4	4692.9	4606.4	4511.3	4437.4	4297.4
52.5°	5245.1	5288.6	5307.1	5306.5	5299.2	5278.1	5234.5	5159.9	5063.4	5021.8	4910.2
55°	5515.8	5610.9	5660.5	5768.8	5778.7	5813.7	5775.4	5776.0	5719.2	5723.2	5687.5
57.5°	5925.9	6099.6	6199.4	6439.1	6559.3	6704.6	6678.8	6800.3	6844.6	6900.7	6975.4
60°	6391.5	6715.8	6952.2	7429.1	7623.2	7858.3	7987.8	8125.8	8226.2	8329.2	8405.2
62.5°	6724.4	7150.4	7538.7	8218.3	8470.5	8718.2	8881.3	9048.4	9161.3	9235.3	9290.1
65°	6588.3	7059.2	7518.2	8230.8	8505.5	8685.2	8879.3	8975.8	9088.7	9150.1	9228.7
67.5°	5598.4	6070.6	6562.6	7403.3	7690.6	7938.9	8090.1	8215.0	8306.1	8384.0	8474.5
70°	4163.3	4679.7	5188.3	6110.2	6472.8	6831.4	7009.7	7164.2	7259.3	7337.9	7437.6
72.5°	2996.3	3319.9	3637.6	4669.8	5032.4	5496.0	5680.9	5852.6	5976.1	5972.2	6077.8
75°	2385.4	2516.9	2658.2	3191.1	3451.4	3842.3	3946.0	4042.4	3984.3	3872.7	3866.1
77.5°	1985.9	2040.0	2087.6	2254.7	2293.0	2386.1	2334.6	2281.1	2108.7	1963.4	1886.8
80°	1612.1	1719.1	1789.1	1908.0	1956.8	1984.6	1991.8	1973.3	1909.9	1822.1	1682.1
82.5°	1198.7	1402.1	1540.8	1774.5	1860.4	1878.2	1912.6	1891.4	1849.8	1778.5	1678.1
85°	351.3	397.6	455.7	618.2	724.5	815.0	907.4	953.0	981.4	941.8	838.1
87.5°	123.5	139.3	155.9	214.6	228.5	276.1	270.8	319.6	321.6	335.5	321.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1
2.5°	1093.7	1093.7	1093.7	1094.3	1094.3	1094.3	1093.0	1092.3	1093.0	1094.3	1094.3
5°	1119.4	1120.1	1121.4	1118.8	1119.4	1121.4	1120.1	1119.4	1120.1	1121.4	1120.1
7.5°	1161.0	1161.7	1160.4	1163.0	1163.0	1164.3	1166.3	1164.3	1165.0	1165.6	1166.3
10°	1215.2	1215.8	1217.2	1219.1	1219.8	1221.1	1222.4	1224.4	1224.4	1223.1	1226.4
12.5°	1279.9	1279.2	1280.6	1283.2	1284.5	1286.5	1290.5	1290.5	1293.1	1292.4	1295.7
15°	1343.3	1346.6	1347.3	1351.9	1353.9	1357.2	1361.8	1364.4	1364.4	1368.4	1369.7
17.5°	1406.7	1409.3	1412.0	1415.9	1418.6	1420.6	1425.8	1429.1	1428.5	1435.8	1435.8
20°	1455.6	1460.8	1464.2	1466.8	1471.4	1474.7	1478.7	1482.6	1485.3	1489.9	1491.2
22.5°	1503.1	1506.4	1511.0	1514.3	1519.6	1523.6	1528.2	1531.5	1536.1	1542.1	1544.1
25°	1555.9	1561.2	1566.5	1571.1	1575.1	1579.7	1587.6	1594.9	1601.5	1606.8	1608.8
27.5°	1629.3	1635.2	1643.1	1646.4	1652.4	1656.3	1668.2	1677.5	1680.8	1690.0	1692.7
30°	1728.3	1734.9	1742.8	1746.8	1757.4	1762.7	1775.2	1785.1	1788.4	1799.6	1801.6
32.5°	1871.6	1875.6	1891.4	1890.8	1905.3	1920.5	1927.8	1935.7	1950.2	1956.2	1958.1
35°	2070.4	2079.7	2090.9	2090.2	2108.7	2117.3	2131.8	2140.4	2151.0	2150.3	2161.6
37.5°	2262.6	2265.9	2269.9	2278.4	2291.7	2303.5	2308.8	2317.4	2325.3	2337.2	2351.8
40°	2472.0	2479.9	2480.5	2485.2	2491.8	2507.0	2516.9	2526.1	2553.2	2570.4	2578.9
42.5°	2785.7	2783.7	2770.5	2779.0	2783.0	2806.1	2813.4	2841.8	2872.2	2908.5	2918.4
45°	3189.2	3162.8	3154.8	3151.5	3172.7	3184.5	3214.3	3267.1	3298.8	3333.1	3349.6
47.5°	3685.8	3603.3	3564.3	3555.7	3577.5	3628.3	3638.3	3690.4	3732.0	3757.1	3773.6
50°	4183.1	4118.4	4036.5	4008.7	4002.8	4049.7	4060.9	4104.5	4146.8	4154.0	4145.5
52.5°	4807.9	4702.2	4566.8	4517.9	4479.0	4482.3	4491.5	4510.0	4537.1	4525.9	4502.7
55°	5607.0	5486.8	5420.1	5327.6	5268.8	5258.3	5218.0	5162.5	5160.5	5167.8	5098.4
57.5°	6937.7	6887.5	6915.9	6906.0	6847.9	6882.9	6701.3	6649.8	6608.8	6537.5	6473.4
60°	8472.5	8524.0	8582.8	8718.2	8712.3	8848.3	8722.2	8690.5	8652.2	8432.2	8324.6
62.5°	9385.9	9406.4	9492.9	9619.0	9743.2	9873.3	9932.1	9952.5	9872.6	9693.0	9468.4
65°	9226.7	9317.2	9401.1	9510.0	9637.5	9767.6	9891.8	9964.4	9945.9	9827.0	9580.1
67.5°	8503.6	8598.7	8721.5	8835.8	8973.1	9086.1	9222.1	9355.5	9359.5	9300.0	9128.3
70°	7448.2	7558.5	7685.3	7749.4	7898.0	8000.3	8113.3	8245.3	8288.3	8295.5	8095.4
72.5°	6055.4	6101.6	6163.7	6130.0	6159.7	6225.1	6194.7	6205.3	6042.2	6072.6	5825.6
75°	3687.8	3645.5	3458.0	3286.9	3078.2	2917.7	2956.0	2649.6	2347.8	2332.6	2114.7
77.5°	1870.3	1802.9	1686.7	1565.9	1388.9	1186.1	1017.0	834.8	680.9	593.1	509.2
80°	1592.9	1545.4	1481.3	1393.5	1264.7	1114.8	938.5	799.8	671.0	536.9	429.9
82.5°	1524.2	1379.0	1285.8	1212.5	1073.2	934.5	838.1	743.0	651.8	569.3	451.1
85°	756.2	669.0	566.0	501.9	386.3	302.5	283.3	233.1	217.3	167.7	141.3
87.5°	254.3	208.0	155.2	130.8	104.3	85.2	83.9	74.6	74.0	67.4	62.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1
2.5°	1093.7	1095.0	1095.0	1093.7	1094.3	1093.0	1093.7	1094.3	1092.3	1091.7	1089.7
5°	1120.7	1120.1	1120.1	1120.7	1122.7	1123.4	1120.1	1121.4	1122.1	1118.8	1111.5
7.5°	1165.6	1165.6	1167.6	1167.0	1170.9	1169.6	1168.9	1168.9	1168.9	1162.3	1150.5
10°	1226.4	1226.4	1228.4	1231.0	1231.7	1230.4	1230.4	1231.0	1234.3	1221.1	1202.6
12.5°	1294.4	1297.7	1297.1	1297.1	1305.0	1303.0	1300.4	1303.0	1306.3	1287.8	1261.4
15°	1370.4	1372.4	1373.7	1378.3	1377.0	1381.6	1382.9	1381.6	1384.9	1361.1	1316.9
17.5°	1439.1	1443.0	1444.3	1449.6	1449.6	1450.3	1455.6	1453.6	1454.2	1427.2	1363.8
20°	1495.9	1499.8	1501.8	1507.7	1509.1	1511.7	1513.7	1515.0	1518.3	1485.9	1402.1
22.5°	1552.6	1555.9	1559.3	1563.2	1568.5	1571.8	1574.4	1575.8	1581.7	1544.1	1438.4
25°	1616.0	1623.3	1626.6	1633.2	1638.5	1643.8	1647.7	1648.4	1658.3	1611.4	1468.1
27.5°	1700.6	1710.5	1715.8	1726.3	1731.6	1736.9	1735.6	1743.5	1757.4	1688.7	1491.2
30°	1811.5	1824.1	1827.4	1837.9	1846.5	1851.8	1857.8	1864.4	1873.6	1774.5	1502.5
32.5°	1966.1	1985.2	1989.8	1995.8	2008.3	2017.6	2021.5	2032.1	2034.8	1855.8	1499.2
35°	2178.1	2169.5	2191.9	2197.2	2215.0	2222.3	2226.9	2240.8	2230.2	1944.3	1477.4
37.5°	2369.6	2366.9	2388.7	2400.6	2423.7	2418.5	2429.7	2438.9	2401.3	2007.0	1437.1
40°	2603.4	2600.1	2630.5	2634.4	2670.1	2662.2	2666.8	2674.0	2590.2	2050.6	1363.8
42.5°	2929.6	2930.9	2963.3	2967.3	2971.9	2986.4	2962.6	2964.0	2790.9	2062.5	1242.9
45°	3359.6	3382.7	3362.9	3363.5	3362.2	3334.5	3304.7	3269.7	2999.6	2021.5	1087.1
47.5°	3776.3	3760.4	3735.3	3712.2	3693.1	3649.5	3605.9	3546.5	3179.9	1924.5	913.4
50°	4132.9	4097.2	4074.8	4010.7	3965.2	3908.4	3847.6	3779.6	3327.9	1784.5	750.9
52.5°	4464.4	4427.5	4343.6	4276.9	4211.5	4136.2	4065.5	3985.6	3458.6	1624.6	626.7
55°	5015.2	4982.9	4899.0	4776.8	4696.2	4592.6	4499.4	4391.1	3723.4	1495.2	544.8
57.5°	6297.1	6269.4	6093.0	6015.8	5909.4	5649.2	5610.9	5441.9	4433.4	1480.0	496.6
60°	8102.0	7983.2	7836.5	7625.2	7376.2	7290.4	7098.9	6873.7	5575.9	1521.6	457.7
62.5°	9210.2	8939.4	8724.1	8480.5	8251.3	8054.5	7845.1	7622.6	6160.4	1466.8	409.5
65°	9293.4	8975.1	8690.5	8404.5	8146.9	7901.9	7698.5	7476.0	5970.2	1260.7	346.7
67.5°	8835.1	8499.6	8189.2	7864.9	7604.7	7383.5	7124.6	6910.6	5433.9	981.4	288.6
70°	7890.0	7595.5	7328.0	6978.7	6762.7	6493.2	6328.8	6061.3	4736.5	669.0	238.4
72.5°	5682.9	5461.0	5373.8	5130.1	4847.5	4689.0	4613.0	4353.5	3500.2	415.4	194.8
75°	1919.8	1974.7	1849.2	1657.0	1750.8	1606.1	1664.9	1541.4	1480.7	238.4	163.8
77.5°	426.0	400.2	369.8	343.4	341.4	321.0	340.1	321.6	344.1	151.9	144.6
80°	336.2	265.5	225.9	206.1	195.5	189.5	184.9	179.6	163.8	129.4	133.4
82.5°	363.2	274.1	200.8	160.5	137.4	128.8	126.8	121.5	120.2	125.5	134.7
85°	116.2	97.1	82.6	77.9	72.0	68.7	67.4	65.4	79.3	136.7	129.4
87.5°	60.8	53.5	47.6	45.6	39.6	37.0	36.3	37.0	55.5	136.7	93.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CATALOG NUMBER: VST-F04-LED-E-U-SL2

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1	1087.1
2.5°	1087.7	1087.1	1085.7	1085.1	1084.4	1081.1	1083.7
5°	1108.2	1101.6	1095.6	1088.4	1084.4	1081.1	1081.1
7.5°	1139.2	1120.7	1105.5	1089.0	1077.8	1069.2	1067.9
10°	1178.2	1142.5	1107.5	1077.8	1056.7	1040.8	1038.8
12.5°	1215.2	1161.0	1105.5	1056.7	1023.7	1001.2	999.9
15°	1249.5	1170.9	1090.4	1018.4	968.8	939.1	935.8
17.5°	1276.6	1165.0	1056.0	964.9	897.5	862.5	860.5
20°	1282.5	1141.2	1007.1	898.8	827.5	790.5	781.9
22.5°	1277.3	1098.3	946.4	826.2	744.3	707.3	702.7
25°	1261.4	1046.1	871.1	741.7	665.7	628.1	618.8
27.5°	1233.0	984.7	789.9	659.8	584.5	548.1	538.9
30°	1190.7	910.7	703.3	583.2	505.2	476.2	466.9
32.5°	1132.0	820.9	618.2	504.6	439.8	416.7	412.8
35°	1050.7	717.9	529.0	439.8	392.3	378.4	376.4
37.5°	947.0	614.9	454.4	393.6	359.3	350.7	349.4
40°	811.7	509.2	401.5	360.6	335.5	328.2	326.9
42.5°	672.3	429.9	362.6	334.2	313.7	307.1	305.1
45°	550.1	376.4	333.5	312.4	293.2	286.0	285.3
47.5°	459.0	345.4	309.7	292.6	273.4	264.8	265.5
50°	392.3	317.0	289.9	275.4	253.6	245.7	246.3
52.5°	346.7	288.6	271.4	254.9	236.4	228.5	228.5
55°	311.1	265.5	253.6	235.8	221.2	214.0	213.3
57.5°	282.0	247.0	236.4	221.9	207.4	198.8	198.8
60°	264.2	233.8	225.2	212.0	194.8	185.6	184.9
62.5°	253.6	229.8	222.6	204.1	184.9	175.7	173.7
65°	245.7	239.1	229.8	199.4	177.0	167.1	165.1
67.5°	246.3	260.9	247.7	202.1	174.4	159.8	157.2
70°	250.3	278.0	260.2	208.0	185.6	156.5	150.6
72.5°	230.5	251.6	234.4	198.1	181.0	150.6	143.3
75°	192.2	183.6	168.4	161.1	162.5	136.7	134.1
77.5°	155.9	136.7	122.2	128.1	136.7	116.9	114.3
80°	135.4	111.0	103.7	113.6	124.2	99.7	93.1
82.5°	126.8	93.8	89.2	118.2	130.1	85.9	75.3
85°	111.6	76.6	70.0	139.3	130.1	64.7	60.1
87.5°	74.6	45.6	43.6	102.4	89.2	44.9	36.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)