

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: P159324

Luminaire Tested: **VST-F04-LED-E-U-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159324
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33705)
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-T2-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9309.5 lumens
Efficiency: N/A
Efficacy: 91.1 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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



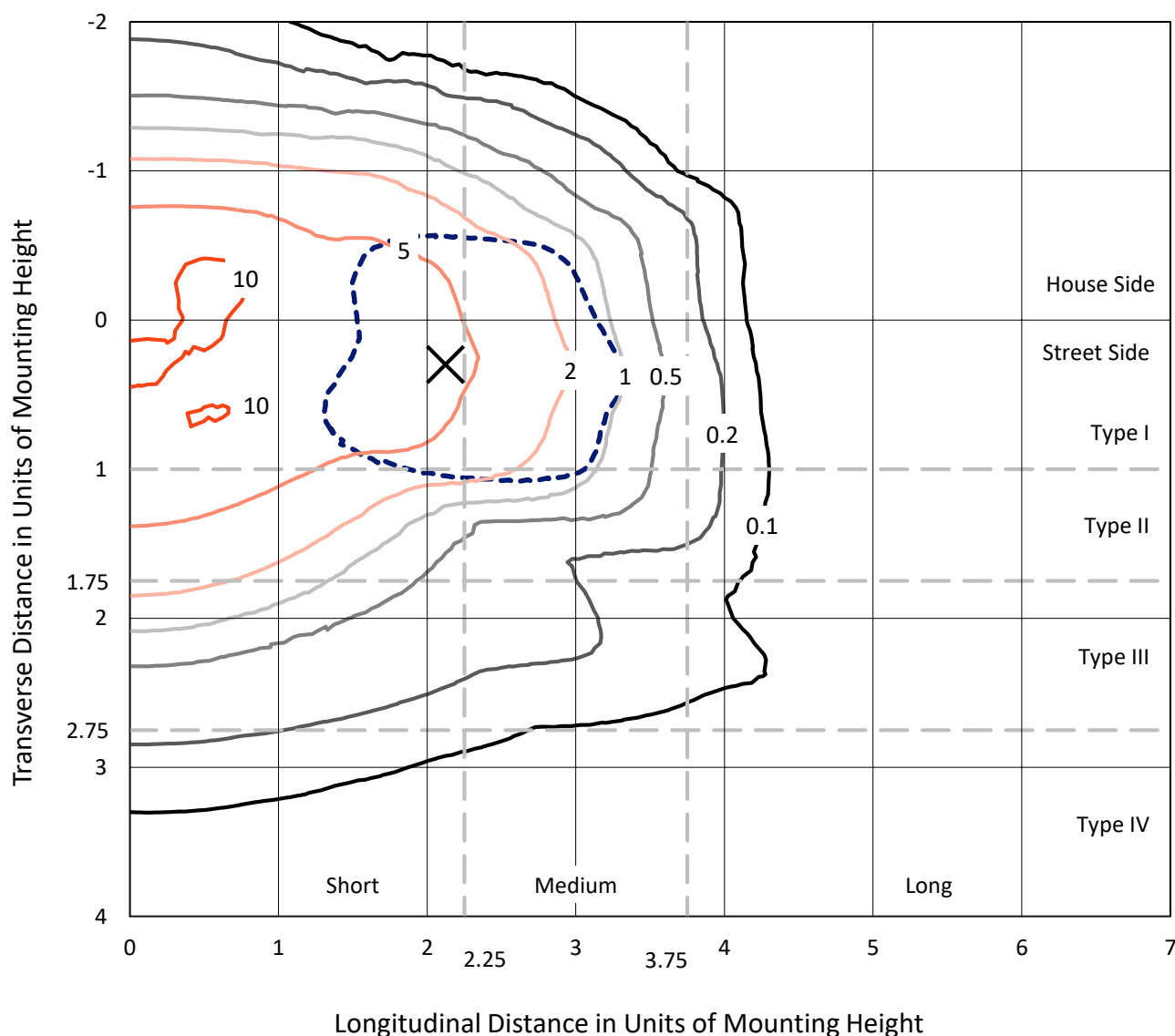
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

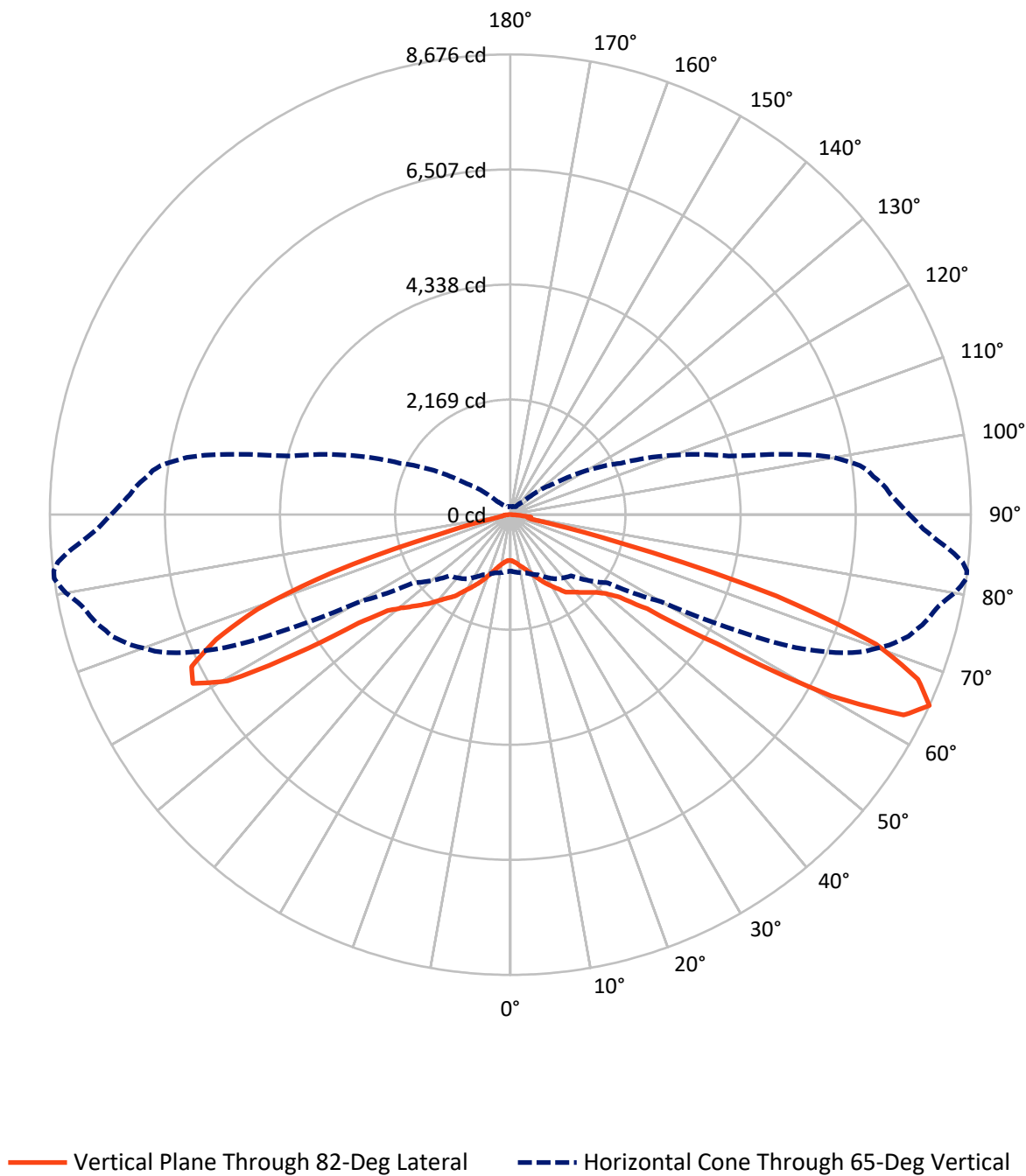


Based on 10 foot mounting height. Maximum calculated value = 11 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3466.2	0.0	3466.2
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	5843.2	0.0	5843.2
	% Fixture	62.8	0.0	62.8
Total	Lumens	9309.5	0.0	9309.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	87.7	0.9
10°-20°	308.1	3.3
20°-30°	610.5	6.6
30°-40°	1046.6	11.2
40°-50°	1572.2	16.9
50°-60°	2184.3	23.5
60°-70°	2492.0	26.8
70°-80°	858.5	9.2
80°-90°	149.6	1.6
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°	9309.5	100.0
0°-180°	9309.5	100.0

Coefficient of Utilization



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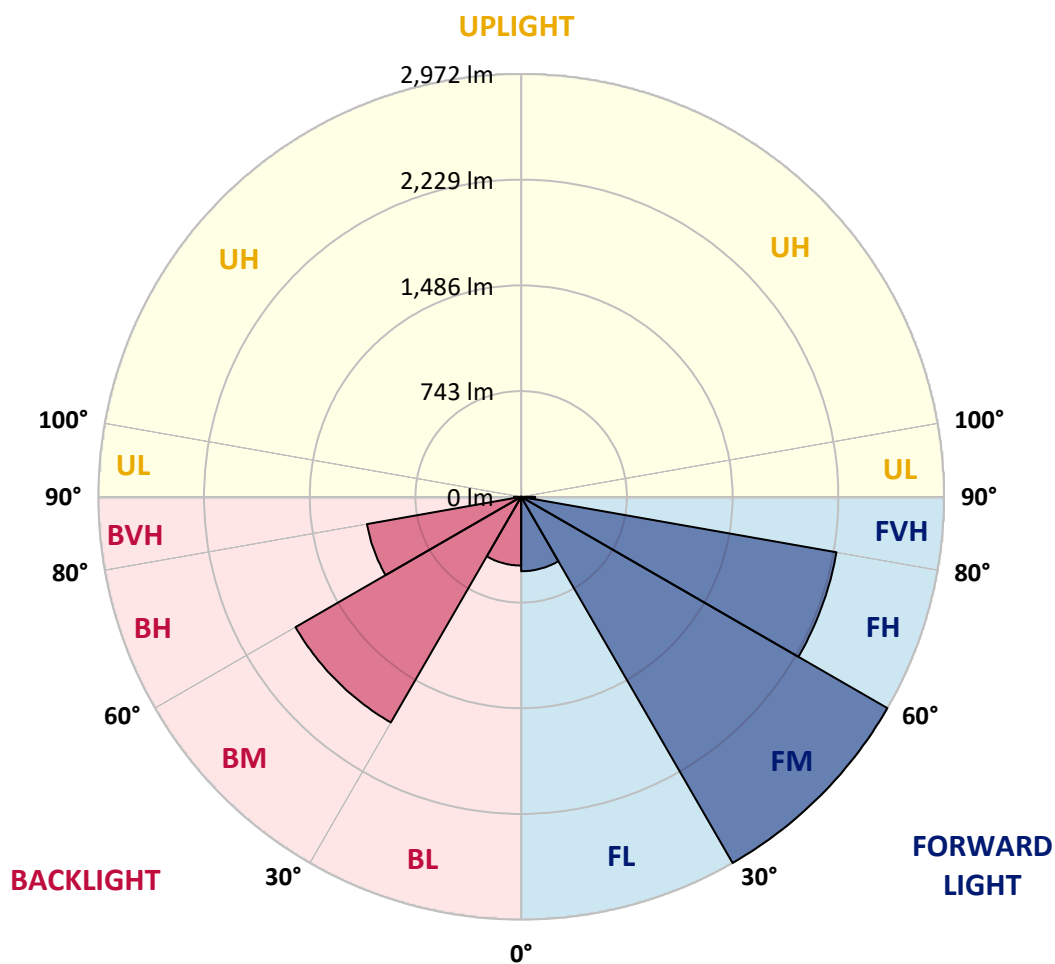
CATALOG NUMBER: VST-F04-LED-E-U-T2-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	523.0	5.6			
FM	(30°-60°)	2971.8	31.9			
FH	(60°-80°)	2250.0	24.2			G2/5000
FVH	(80°-90°)	98.5	1.1			G1/100
BL	(0°-30°)	483.3	5.2	B1/500		
BM	(30°-60°)	1831.3	19.7	B2/2500		
BH	(60°-80°)	1100.4	11.8	B3/2500		G3/2500
BVH	(80°-90°)	51.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2
2.5°	913.2	913.8	913.2	911.4	910.8	905.4	899.4	896.3	895.7	893.3	893.9
5°	969.9	968.1	965.7	962.7	959.7	950.6	940.4	935.0	933.1	931.3	928.9
7.5°	1020.6	1021.8	1020.6	1016.4	1008.5	997.1	983.8	975.4	974.8	973.0	971.1
10°	1085.8	1088.8	1081.5	1074.3	1063.4	1045.9	1030.9	1020.0	1018.2	1015.8	1014.6
12.5°	1156.3	1156.9	1154.5	1138.2	1120.1	1096.0	1074.3	1063.4	1061.0	1058.0	1056.8
15°	1231.7	1232.3	1219.1	1203.4	1175.6	1146.7	1116.5	1104.4	1101.4	1102.0	1097.2
17.5°	1291.4	1292.6	1280.0	1260.1	1226.9	1192.5	1159.9	1150.3	1148.5	1149.1	1146.7
20°	1317.4	1319.2	1311.3	1296.3	1264.9	1234.7	1211.2	1205.2	1204.6	1203.4	1208.2
22.5°	1316.2	1316.8	1313.8	1307.7	1289.0	1271.5	1268.5	1272.1	1271.5	1272.7	1277.0
25°	1305.3	1307.1	1306.5	1308.9	1305.9	1312.6	1326.4	1339.1	1340.9	1343.3	1351.2
27.5°	1333.1	1336.7	1332.5	1334.9	1339.7	1362.0	1390.4	1409.7	1413.3	1419.9	1426.6
30°	1441.6	1436.8	1431.4	1425.3	1428.4	1442.2	1474.2	1491.1	1492.9	1497.7	1506.8
32.5°	1602.7	1597.3	1592.4	1582.8	1580.4	1574.3	1585.2	1589.4	1588.8	1593.6	1596.1
35°	1784.3	1784.9	1783.6	1790.9	1796.9	1766.2	1728.2	1717.9	1722.1	1716.7	1717.9
37.5°	1939.3	1941.1	1973.1	2012.9	2024.3	2005.0	1921.8	1880.8	1866.9	1865.1	1851.2
40°	2111.2	2111.2	2159.4	2208.3	2240.3	2264.4	2165.5	2093.1	2063.5	2055.1	2020.7
42.5°	2300.0	2290.3	2334.4	2388.0	2447.2	2502.1	2450.8	2369.3	2327.1	2312.0	2251.7
45°	2455.0	2449.0	2470.7	2520.8	2616.7	2724.0	2731.3	2689.6	2664.3	2632.9	2577.5
47.5°	2550.3	2547.3	2560.0	2614.2	2734.3	2908.0	3005.1	3026.2	3011.1	2987.0	2933.3
50°	2587.7	2583.5	2592.5	2652.9	2787.4	3016.6	3231.3	3330.8	3338.1	3343.5	3326.6
52.5°	2574.4	2569.0	2587.7	2638.4	2778.3	3054.6	3408.1	3599.3	3631.2	3658.4	3713.9
55°	2447.2	2438.7	2489.4	2584.7	2739.1	3040.7	3537.1	3857.4	3925.0	3997.4	4120.4
57.5°	2252.3	2245.1	2318.1	2449.0	2669.7	3002.7	3624.0	4183.8	4335.8	4466.1	4815.3
60°	2064.7	2058.7	2101.5	2228.2	2444.7	2817.5	3516.6	4293.5	4548.7	4829.8	5467.4
62.5°	1729.4	1713.1	1770.4	1877.1	2014.1	2330.7	3047.9	4049.2	4442.5	4855.7	5720.1
65°	1062.8	1086.4	1135.8	1254.0	1478.4	1629.2	2238.5	3276.0	3794.7	4312.8	5434.2
67.5°	675.0	681.6	718.4	800.4	974.2	1125.6	1356.6	2055.7	2455.6	2965.3	4266.4
70°	578.5	582.7	614.1	699.7	819.7	1006.1	1026.6	1073.7	1217.2	1541.8	2508.1
72.5°	456.0	463.3	488.0	562.2	706.9	907.2	1267.3	848.7	819.7	846.9	1223.9
75°	271.4	279.9	300.4	340.8	454.2	693.7	1327.6	987.4	920.5	868.0	844.5
77.5°	143.6	137.5	151.4	174.9	233.4	369.8	997.7	1210.0	1163.0	1100.2	966.9
80°	71.2	73.6	77.8	82.6	104.4	150.2	498.8	1251.6	1387.3	1447.7	1329.4
82.5°	28.4	32.0	45.2	48.3	57.3	63.9	160.4	693.7	993.5	1347.5	1759.5
85°	14.5	13.9	24.1	29.0	33.8	30.2	56.7	258.8	465.7	725.6	1175.6
87.5°	1.8	2.4	5.4	7.2	10.3	9.7	16.3	56.1	89.3	126.7	177.9
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2
2.5°	890.9	890.3	890.3	887.9	887.9	888.5	886.7	885.5	885.5	886.1	883.7
5°	927.1	925.3	925.3	922.9	919.9	919.9	917.5	916.9	915.6	913.2	911.4
7.5°	969.3	967.5	964.5	962.7	961.5	959.7	956.7	955.5	953.0	950.6	948.2
10°	1012.8	1010.4	1009.1	1006.1	1004.9	1001.3	999.5	1000.1	995.3	993.5	994.1
12.5°	1056.2	1053.8	1049.6	1048.4	1047.7	1044.1	1042.3	1041.1	1037.5	1036.9	1035.1
15°	1094.8	1096.0	1094.2	1091.2	1088.8	1088.2	1086.4	1085.1	1082.7	1080.3	1077.9
17.5°	1144.9	1146.7	1144.3	1140.0	1140.0	1139.4	1140.0	1139.4	1135.2	1137.0	1135.8
20°	1208.8	1210.0	1204.0	1205.8	1207.0	1206.4	1208.2	1210.0	1208.8	1208.8	1210.6
22.5°	1282.4	1284.2	1280.6	1283.0	1286.6	1283.6	1289.0	1288.4	1289.6	1291.4	1292.0
25°	1357.8	1361.4	1358.4	1365.0	1362.6	1365.0	1371.7	1369.9	1372.9	1377.7	1379.5
27.5°	1433.2	1435.6	1436.2	1440.4	1444.7	1448.3	1456.7	1456.7	1459.1	1467.6	1467.6
30°	1512.2	1514.6	1517.0	1523.1	1525.5	1532.1	1540.6	1543.0	1541.8	1553.8	1557.4
32.5°	1603.3	1605.7	1609.9	1617.2	1620.2	1626.8	1626.8	1633.5	1638.3	1648.5	1649.1
35°	1724.5	1726.3	1724.5	1723.9	1728.2	1737.2	1737.8	1747.5	1751.7	1761.9	1764.9
37.5°	1845.8	1845.2	1837.3	1828.9	1829.5	1825.9	1823.5	1827.7	1829.5	1830.1	1836.7
40°	2009.2	1993.6	1981.5	1960.4	1950.7	1935.7	1926.6	1926.0	1916.3	1915.1	1917.0
42.5°	2223.4	2205.3	2176.9	2141.3	2114.2	2086.5	2065.9	2053.9	2032.8	2021.9	2012.9
45°	2522.6	2477.9	2444.1	2401.9	2349.4	2301.2	2250.5	2227.6	2187.2	2162.5	2134.7
47.5°	2888.1	2844.1	2792.2	2748.8	2680.0	2613.0	2543.7	2482.7	2412.2	2356.1	2310.2
50°	3285.0	3259.1	3221.7	3181.2	3092.6	3048.5	2961.1	2878.4	2802.4	2702.3	2614.8
52.5°	3692.2	3707.2	3698.8	3684.3	3628.2	3611.3	3535.9	3435.2	3358.6	3289.8	3137.8
55°	4194.0	4212.1	4248.3	4269.4	4262.8	4305.6	4286.9	4208.5	4177.7	4145.8	4037.8
57.5°	4961.9	5091.0	5229.1	5350.3	5378.7	5530.7	5498.1	5576.5	5632.0	5592.2	5557.2
60°	5780.4	6041.0	6275.6	6521.1	6720.8	6870.4	7068.2	7201.5	7285.4	7436.2	7448.2
62.5°	6110.4	6464.4	6762.4	7047.1	7284.2	7491.7	7670.2	7854.2	8005.0	8141.3	8239.6
65°	5929.4	6299.2	6660.5	6949.4	7177.4	7356.0	7550.2	7696.2	7844.5	7932.0	8035.2
67.5°	4929.3	5419.1	5863.7	6189.4	6501.2	6682.8	6912.6	7056.2	7213.6	7305.9	7372.2
70°	3213.8	3851.4	4458.8	4952.8	5373.9	5585.6	5863.1	6059.1	6248.5	6253.3	6363.7
72.5°	1734.2	2267.4	2775.9	3280.8	3760.9	4042.6	4316.5	4554.7	4742.9	4662.7	4772.5
75°	965.7	1215.4	1493.5	1796.9	2089.5	2250.5	2455.0	2456.2	2553.3	2400.7	2439.3
77.5°	928.9	917.5	921.7	930.1	944.6	913.8	913.2	894.5	865.6	813.1	822.2
80°	1220.3	1074.3	969.3	804.7	647.8	528.4	495.2	503.1	526.6	573.6	633.4
82.5°	1764.3	1641.3	1465.2	1205.8	946.4	729.9	599.6	532.0	529.0	576.1	666.5
85°	1284.8	1359.0	1347.5	1125.0	927.7	753.4	548.3	463.3	383.6	364.9	396.9
87.5°	189.4	156.8	176.7	147.8	107.4	83.2	73.0	58.5	56.1	57.3	62.7
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2
2.5°	884.3	881.9	879.5	881.3	879.5	878.9	877.0	875.8	875.2	875.2	875.2
5°	911.4	908.4	906.6	906.0	904.2	902.4	901.8	898.8	898.2	898.2	896.3
7.5°	948.2	945.8	942.8	941.0	939.8	936.8	933.7	933.1	932.5	930.1	928.3
10°	991.0	987.4	983.8	983.8	981.4	980.8	977.8	973.6	973.0	969.3	968.1
12.5°	1031.5	1030.3	1026.0	1024.8	1023.0	1021.2	1019.4	1017.6	1015.8	1012.8	1014.0
15°	1079.7	1076.7	1073.1	1073.7	1073.1	1070.7	1068.3	1066.4	1065.2	1064.0	1064.0
17.5°	1137.6	1136.4	1135.8	1132.8	1130.4	1132.2	1132.2	1132.2	1129.2	1129.8	1130.4
20°	1211.2	1212.4	1211.2	1208.8	1208.2	1210.0	1205.8	1212.4	1208.8	1206.4	1207.6
22.5°	1292.6	1296.9	1292.0	1292.6	1295.7	1296.9	1292.6	1298.1	1296.3	1292.6	1295.7
25°	1381.3	1384.3	1381.9	1381.3	1383.1	1387.3	1386.7	1386.1	1390.4	1386.7	1388.6
27.5°	1472.4	1474.2	1475.4	1477.2	1478.4	1477.8	1480.2	1480.2	1482.7	1478.4	1480.2
30°	1562.9	1562.9	1565.3	1567.7	1567.7	1567.7	1572.5	1573.1	1569.5	1570.7	1566.5
32.5°	1659.4	1660.0	1662.4	1662.4	1667.2	1667.8	1673.3	1666.0	1673.3	1667.2	1668.4
35°	1772.8	1780.6	1781.8	1787.9	1792.7	1794.5	1794.5	1795.1	1801.7	1796.9	1798.7
37.5°	1839.1	1841.0	1845.8	1848.8	1848.8	1851.2	1853.0	1851.2	1853.0	1852.4	1854.2
40°	1917.6	1915.7	1921.2	1922.4	1920.0	1923.0	1922.4	1920.6	1925.4	1921.8	1924.2
42.5°	2012.9	2002.6	2002.0	2006.8	2002.0	2004.4	2003.8	1999.6	2005.6	2007.4	2005.6
45°	2114.8	2109.4	2098.5	2098.5	2093.7	2091.9	2092.5	2091.9	2092.5	2099.7	2102.1
47.5°	2280.7	2247.5	2228.8	2211.3	2196.8	2196.2	2189.6	2193.2	2198.0	2210.1	2221.0
50°	2558.8	2482.1	2435.1	2391.7	2360.3	2349.4	2336.8	2335.6	2339.8	2353.7	2372.4
52.5°	3054.6	2948.4	2848.3	2755.4	2674.6	2612.4	2581.7	2565.4	2559.4	2573.2	2591.3
55°	3961.8	3761.5	3620.4	3526.3	3325.4	3240.4	3131.2	3081.1	3032.3	3037.1	3067.8
57.5°	5512.0	5404.0	5285.8	5121.1	4998.1	4849.7	4577.0	4425.0	4431.7	4467.3	4356.3
60°	7543.6	7434.4	7385.5	7235.9	7150.3	7090.6	6945.8	6693.7	6604.4	6587.5	6383.6
62.5°	8315.0	8341.0	8379.6	8421.8	8419.4	8445.3	8318.7	8236.6	8133.5	7999.6	7798.1
65°	8113.6	8179.3	8257.7	8371.1	8500.2	8595.5	8675.8	8666.1	8569.6	8391.0	8178.1
67.5°	7431.4	7496.5	7553.8	7705.8	7917.5	8111.2	8282.5	8398.9	8334.3	8186.6	7938.0
70°	6405.9	6453.0	6489.2	6621.3	6853.5	7090.0	7313.7	7509.2	7489.3	7310.1	7111.7
72.5°	4641.6	4755.6	4817.1	4808.1	4951.6	5216.4	5247.8	5414.9	5461.3	5268.3	4952.2
75°	2261.4	2263.2	2192.0	2168.5	2175.7	2221.6	2134.1	2139.5	2109.4	1972.4	1859.6
77.5°	790.2	768.5	716.6	655.1	567.0	484.4	400.5	364.3	352.3	316.7	291.9
80°	681.0	713.0	702.7	652.1	559.2	445.8	333.0	246.7	210.5	197.8	185.8
82.5°	773.3	896.3	974.8	970.5	843.3	633.4	395.1	226.8	161.7	141.8	130.3
85°	431.3	463.9	472.9	430.7	357.7	244.3	136.3	95.9	81.4	74.2	67.0
87.5°	68.8	62.7	61.5	53.7	50.7	46.4	41.0	38.6	35.6	33.8	33.8
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-T2-7030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2
2.5°	874.6	874.0	872.2	870.4	869.2	868.6	868.0	866.8	866.2	865.6	864.4
5°	895.1	893.9	890.9	887.9	886.7	884.9	883.1	881.9	880.7	880.1	877.6
7.5°	927.1	925.9	922.3	919.9	919.3	914.4	913.8	912.0	909.0	908.4	904.8
10°	965.7	965.1	962.1	960.3	959.1	956.7	953.0	950.0	947.0	947.0	944.6
12.5°	1010.4	1007.9	1009.7	1005.5	1004.3	1001.9	1000.1	999.5	995.9	992.9	992.3
15°	1062.8	1059.8	1059.8	1058.6	1057.4	1055.0	1054.4	1055.0	1051.4	1052.6	1049.0
17.5°	1128.0	1129.2	1128.6	1128.6	1125.6	1125.6	1120.7	1126.8	1122.5	1125.6	1124.4
20°	1209.4	1210.0	1208.8	1210.6	1211.8	1211.2	1210.6	1210.0	1211.8	1214.2	1212.4
22.5°	1296.3	1296.3	1295.7	1302.3	1295.1	1300.5	1302.3	1298.7	1308.3	1307.1	1308.9
25°	1390.4	1390.4	1395.2	1400.6	1401.8	1397.6	1400.0	1397.0	1403.0	1407.9	1409.1
27.5°	1477.8	1485.7	1489.3	1485.7	1488.7	1495.3	1494.7	1494.7	1498.9	1497.7	1509.2
30°	1567.7	1572.5	1577.4	1574.9	1576.1	1584.6	1585.2	1585.8	1591.2	1599.1	1607.5
32.5°	1670.2	1675.1	1672.7	1680.5	1679.9	1690.2	1692.0	1693.8	1710.7	1707.6	1725.1
35°	1796.3	1801.1	1798.7	1807.2	1806.0	1809.6	1816.2	1823.5	1826.5	1844.0	1857.8
37.5°	1855.4	1855.4	1860.9	1870.5	1874.1	1880.2	1890.4	1899.5	1914.5	1933.2	1955.0
40°	1926.6	1928.4	1935.7	1945.9	1952.5	1966.4	1985.1	1997.8	2020.7	2041.2	2066.5
42.5°	2012.9	2020.7	2029.1	2043.0	2057.5	2079.2	2105.8	2122.0	2152.2	2178.7	2210.1
45°	2113.6	2121.4	2141.3	2166.7	2187.8	2211.9	2233.6	2272.2	2299.4	2327.1	2354.3
47.5°	2235.4	2258.4	2274.6	2304.8	2330.7	2362.7	2389.9	2426.0	2455.6	2489.4	2512.3
50°	2391.7	2420.0	2441.1	2480.3	2505.7	2541.3	2575.6	2602.8	2632.9	2666.1	2684.8
52.5°	2616.1	2645.0	2671.5	2720.4	2751.8	2775.9	2821.7	2855.5	2883.3	2907.4	2927.9
55°	3102.2	3093.8	3167.4	3262.1	3272.9	3360.4	3376.7	3405.0	3456.3	3463.5	3520.8
57.5°	4491.4	4448.0	4554.7	4693.5	4669.3	4625.3	4809.3	4820.7	4794.8	4864.2	4785.7
60°	6413.8	6337.8	6366.7	6404.7	6349.8	6323.9	6332.9	6358.9	6333.5	6305.8	6229.8
62.5°	7697.4	7580.3	7496.5	7425.9	7336.7	7272.1	7199.7	7110.5	7086.3	6985.0	6899.9
65°	7971.2	7789.1	7656.4	7523.0	7400.0	7286.0	7176.8	7100.2	6998.9	6878.8	6790.2
67.5°	7670.2	7444.6	7250.4	7056.8	6917.4	6749.7	6667.7	6542.9	6418.0	6280.5	6199.0
70°	6795.6	6560.3	6316.1	6126.6	5937.2	5729.7	5689.3	5541.6	5469.8	5282.2	5249.6
72.5°	4690.4	4533.6	4424.4	4190.4	4075.2	3969.0	3935.2	3798.3	3812.8	3607.1	3681.9
75°	1667.8	1645.5	1613.5	1481.4	1457.9	1416.9	1406.0	1396.4	1494.1	1358.4	1456.7
77.5°	286.5	284.7	268.4	260.6	275.7	266.0	268.4	263.6	291.9	296.2	289.5
80°	177.9	173.1	167.7	164.1	164.7	161.1	161.7	162.9	164.7	164.1	165.9
82.5°	121.8	117.6	115.2	112.8	116.4	117.6	120.6	123.7	128.5	131.5	135.1
85°	66.4	60.9	60.9	60.3	65.1	68.8	73.6	79.6	88.1	95.3	103.1
87.5°	33.8	32.6	33.2	34.4	38.6	41.6	47.7	53.1	60.3	68.2	75.4
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-T2-7030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2	866.2
2.5°	863.8	863.8	863.2	863.2	862.6	862.0	861.4	859.6	852.9	846.9	842.7
5°	877.0	875.2	874.6	872.8	872.2	871.0	869.2	867.4	855.3	844.5	836.6
7.5°	904.2	901.8	900.6	898.8	897.0	894.5	892.1	890.3	875.8	863.2	853.5
10°	939.8	938.6	938.0	935.6	935.6	931.9	931.3	927.1	911.4	900.0	891.5
12.5°	989.2	986.8	986.2	983.2	984.4	983.2	982.0	979.6	968.1	954.9	943.4
15°	1050.8	1050.8	1047.7	1045.3	1045.9	1044.7	1047.1	1044.1	1036.9	1024.8	1006.1
17.5°	1125.0	1123.8	1125.0	1123.1	1124.4	1125.6	1122.5	1123.1	1119.5	1104.4	1076.7
20°	1211.2	1209.4	1216.6	1213.6	1220.3	1214.2	1215.4	1217.2	1217.2	1197.3	1159.9
22.5°	1310.1	1308.9	1308.9	1315.0	1317.4	1318.0	1320.4	1322.2	1327.0	1301.7	1242.0
25°	1409.1	1413.3	1413.9	1421.7	1425.3	1425.3	1427.2	1433.8	1448.3	1413.3	1336.1
27.5°	1509.8	1520.1	1522.5	1527.9	1533.3	1538.7	1543.0	1547.8	1571.3	1533.3	1432.6
30°	1610.5	1622.0	1630.4	1636.5	1643.1	1656.4	1658.8	1668.4	1707.6	1661.2	1524.3
32.5°	1728.8	1745.0	1755.9	1763.7	1774.0	1786.7	1793.9	1806.0	1844.0	1768.0	1591.2
35°	1869.9	1879.6	1895.2	1908.5	1914.5	1936.3	1947.7	1950.7	1979.7	1860.3	1640.7
37.5°	1967.6	1983.9	2011.1	2029.8	2040.6	2052.7	2072.0	2084.6	2112.4	1944.1	1665.4
40°	2091.9	2116.6	2138.3	2166.1	2183.6	2192.6	2211.9	2222.2	2225.8	2015.9	1657.6
42.5°	2243.3	2265.6	2294.6	2316.9	2330.1	2340.4	2356.1	2360.3	2313.3	2049.7	1615.4
45°	2385.6	2420.0	2444.7	2461.0	2470.7	2476.1	2485.8	2486.4	2385.6	2032.8	1543.0
47.5°	2538.8	2563.6	2586.5	2598.0	2596.8	2598.0	2594.3	2591.9	2421.8	1974.3	1450.1
50°	2708.3	2724.6	2734.3	2739.7	2742.7	2731.3	2715.0	2704.1	2424.8	1891.0	1356.0
52.5°	2935.7	2956.3	2954.4	2953.8	2929.7	2918.9	2875.4	2853.1	2407.4	1793.3	1249.8
55°	3511.8	3491.9	3452.7	3472.0	3373.7	3322.4	3254.8	3192.1	2430.3	1700.4	1126.8
57.5°	4817.1	4825.0	4713.4	4653.6	4487.8	4280.3	4113.2	3950.9	2636.6	1643.7	966.3
60°	6179.1	6076.6	5934.8	5718.9	5505.4	5197.1	4899.8	4618.7	2842.3	1584.6	776.3
62.5°	6773.9	6627.9	6413.8	6134.5	5799.1	5422.1	5051.8	4709.1	2742.7	1393.4	564.6
65°	6653.2	6430.1	6193.6	5866.7	5458.9	5045.7	4613.2	4263.4	2294.6	1039.3	348.0
67.5°	6022.3	5832.9	5583.2	5195.3	4759.2	4329.1	3932.8	3540.8	1704.6	647.8	194.8
70°	5083.1	4897.9	4644.6	4247.7	3812.2	3400.8	2981.0	2661.3	1086.4	312.5	140.5
72.5°	3526.3	3376.1	3196.9	2914.0	2532.2	2158.2	1874.1	1628.6	602.0	165.9	128.5
75°	1432.0	1432.6	1400.0	1280.6	1082.1	933.1	795.6	675.0	251.5	141.1	126.7
77.5°	324.5	329.9	360.7	342.0	308.2	288.3	258.2	228.0	153.2	145.4	127.9
80°	164.1	164.7	162.9	163.5	161.7	162.3	159.8	158.0	143.6	149.6	127.9
82.5°	136.9	139.9	139.3	139.3	139.9	139.9	139.9	139.3	149.0	157.4	123.7
85°	108.6	114.6	119.4	124.3	129.7	133.3	135.1	136.9	144.8	155.0	112.2
87.5°	82.0	89.3	95.3	100.1	108.6	108.6	114.6	118.8	118.8	121.2	59.1
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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CATALOG NUMBER: VST-F04-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	866.2	866.2	866.2	866.2	866.2
2.5°	836.6	834.2	831.8	830.6	828.2
5°	830.6	825.8	822.8	822.8	820.3
7.5°	848.1	846.3	842.1	839.6	842.1
10°	885.5	882.5	877.6	874.0	875.8
12.5°	935.6	923.5	913.8	909.6	906.6
15°	987.4	963.3	944.0	933.1	930.1
17.5°	1042.9	1000.7	971.7	955.5	952.4
20°	1099.6	1047.1	1006.1	985.0	984.4
22.5°	1167.8	1097.8	1045.3	1017.6	1015.8
25°	1239.6	1143.1	1073.7	1038.1	1034.5
27.5°	1301.7	1179.2	1091.2	1049.0	1045.3
30°	1353.6	1206.4	1105.7	1056.8	1052.0
32.5°	1391.0	1222.1	1111.7	1059.2	1053.8
35°	1403.0	1216.0	1094.8	1037.5	1031.5
37.5°	1386.7	1176.8	1047.7	984.4	977.2
40°	1337.9	1108.1	971.1	906.0	897.0
42.5°	1263.1	1023.6	878.9	816.7	805.3
45°	1170.8	928.3	787.2	717.8	712.4
47.5°	1074.3	828.2	684.0	621.3	614.7
50°	969.9	712.4	583.3	515.1	515.1
52.5°	845.7	599.6	466.3	415.0	410.8
55°	702.7	472.3	371.6	332.4	326.9
57.5°	548.9	363.1	296.8	273.9	267.8
60°	403.5	272.6	238.9	226.2	223.8
62.5°	273.9	207.5	192.4	187.0	186.4
65°	185.2	161.7	157.4	155.6	156.2
67.5°	142.4	134.5	132.7	132.1	132.1
70°	123.7	118.8	117.0	117.6	117.0
72.5°	116.4	109.8	110.4	111.6	111.0
75°	114.0	105.6	108.0	108.6	106.2
77.5°	112.2	100.7	106.8	108.6	101.9
80°	108.6	96.5	111.0	111.6	100.1
82.5°	99.5	85.7	111.0	102.5	90.5
85°	84.4	65.1	125.5	89.3	67.0
87.5°	53.7	38.6	85.1	60.9	40.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)