

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: P159336

Luminaire Tested: **VST-F05-LED-E-U-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159336
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-F05-LED-E-U-T2-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13073.4 lumens
Efficiency: N/A
Efficacy: 98.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - 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



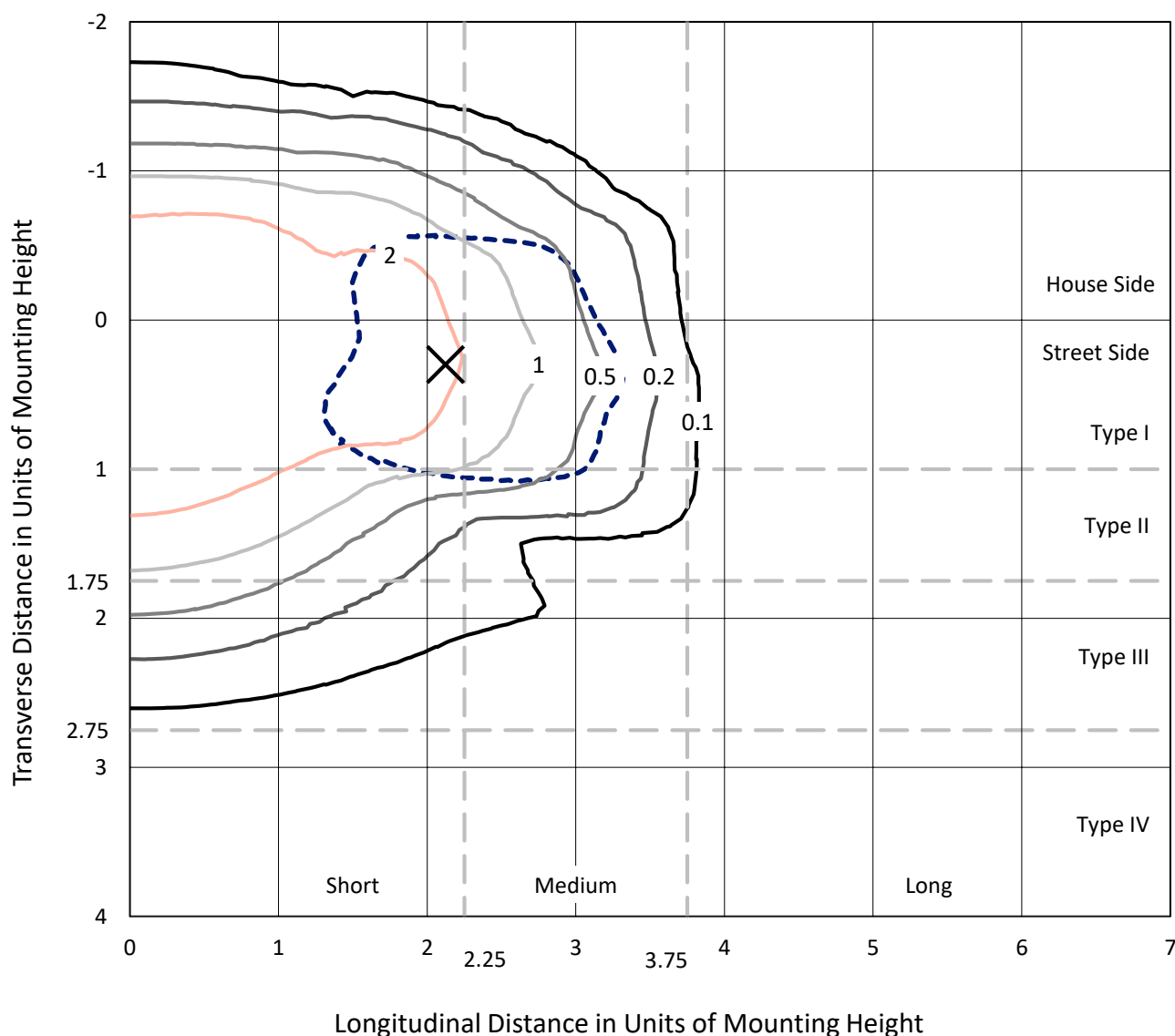
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

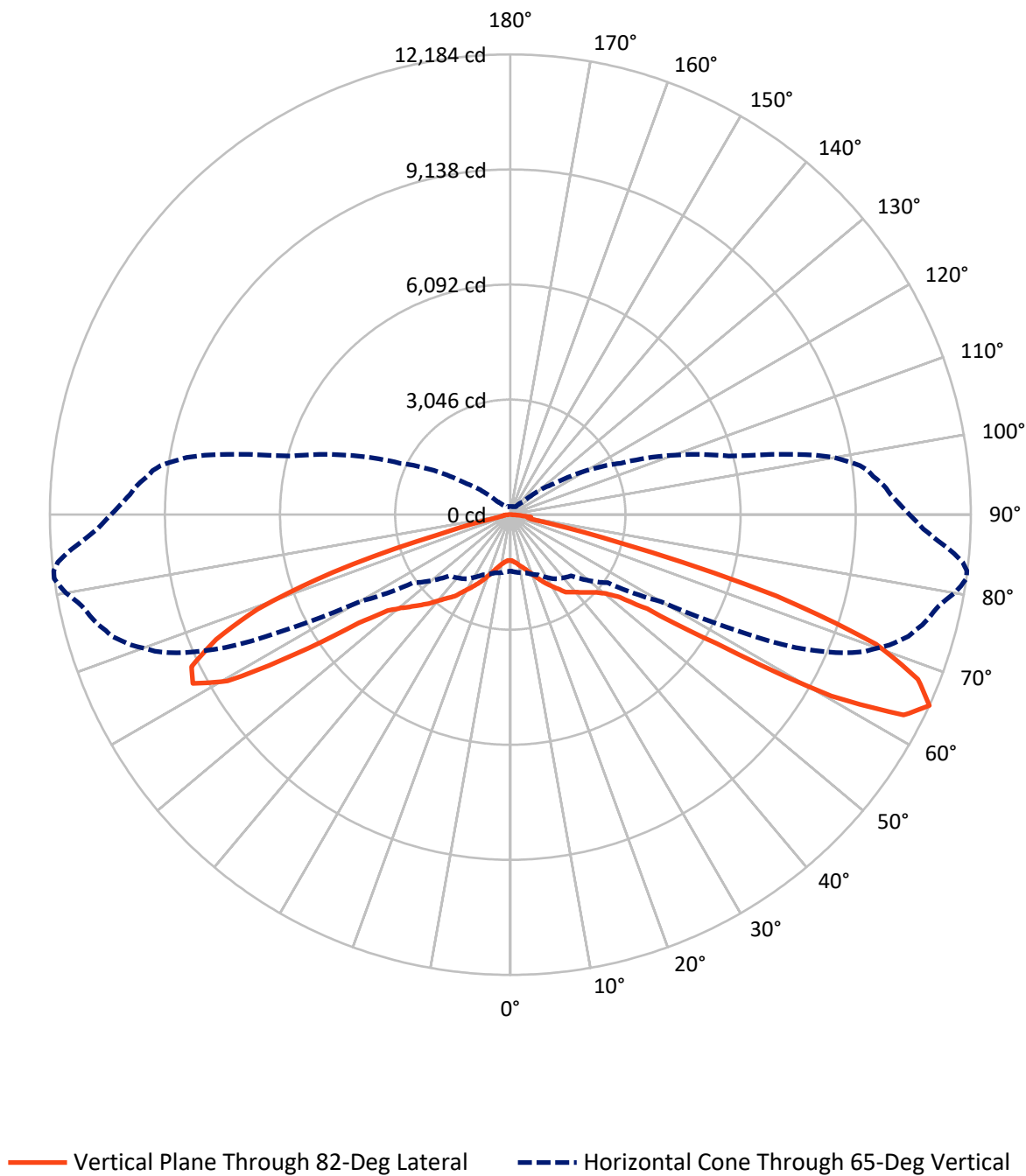


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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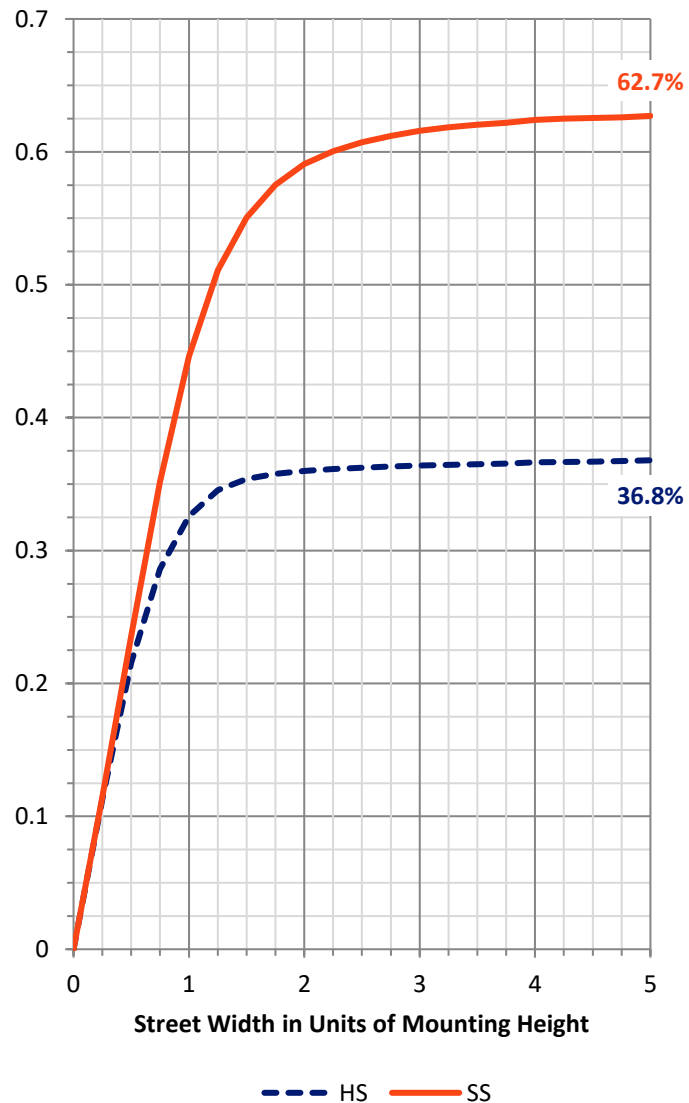
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4867.7	0.0	4867.7
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	8205.8	0.0	8205.8
	% Fixture	62.8	0.0	62.8
Total	Lumens	13073.4	0.0	13073.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	123.1	0.9
10°-20°	432.7	3.3
20°-30°	857.4	6.6
30°-40°	1469.7	11.2
40°-50°	2207.9	16.9
50°-60°	3067.5	23.5
60°-70°	3499.5	26.8
70°-80°	1205.5	9.2
80°-90°	210.1	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°	13073.4	100.0
0°-180°	13073.4	100.0

Coefficient of Utilization



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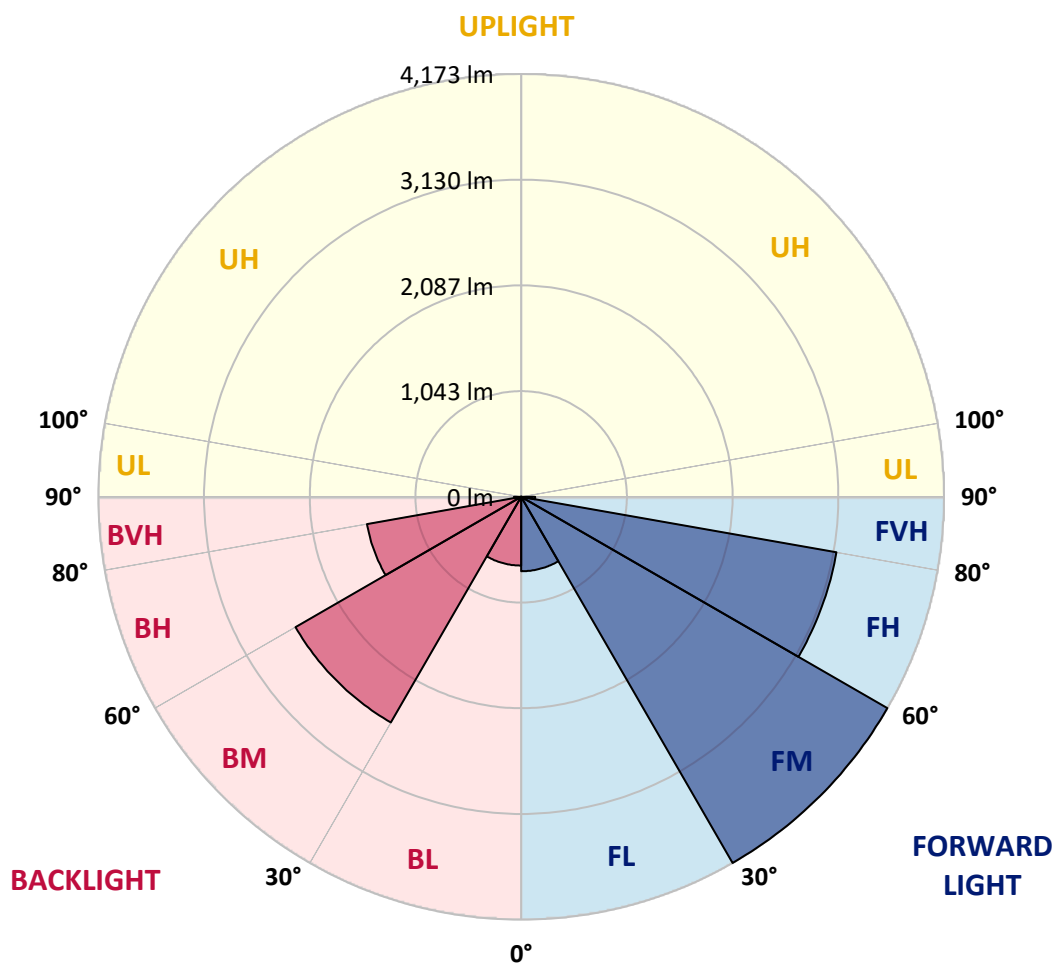
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	734.4	5.6			
FM	(30°-60°)	4173.3	31.9			
FH	(60°-80°)	3159.7	24.2			G2/5000
FVH	(80°-90°)	138.3	1.1			G2/225
BL	(0°-30°)	678.8	5.2	B2/1000		
BM	(30°-60°)	2571.7	19.7	B3/5000		
BH	(60°-80°)	1545.3	11.8	B3/2500		G3/2500
BVH	(80°-90°)	71.8	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°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4
2.5°	1282.5	1283.3	1282.5	1279.9	1279.1	1271.5	1263.0	1258.8	1257.9	1254.5	1255.4
5°	1362.1	1359.6	1356.2	1351.9	1347.7	1335.0	1320.6	1313.0	1310.4	1307.9	1304.5
7.5°	1433.3	1434.9	1433.3	1427.3	1416.3	1400.2	1381.6	1369.7	1368.9	1366.3	1363.8
10°	1524.7	1529.0	1518.8	1508.6	1493.4	1468.8	1447.7	1432.4	1429.9	1426.5	1424.8
12.5°	1623.8	1624.7	1621.3	1598.4	1573.0	1539.1	1508.6	1493.4	1490.0	1485.8	1484.1
15°	1729.7	1730.6	1711.9	1689.9	1651.0	1610.3	1567.9	1551.0	1546.8	1547.6	1540.8
17.5°	1813.6	1815.3	1797.5	1769.5	1723.0	1674.7	1628.9	1615.4	1612.8	1613.7	1610.3
20°	1850.0	1852.6	1841.5	1820.4	1776.3	1734.0	1700.9	1692.5	1691.6	1689.9	1696.7
22.5°	1848.3	1849.2	1844.9	1836.5	1810.2	1785.6	1781.4	1786.5	1785.6	1787.3	1793.3
25°	1833.1	1835.6	1834.8	1838.2	1833.9	1843.2	1862.7	1880.5	1883.0	1886.4	1897.4
27.5°	1872.0	1877.1	1871.2	1874.6	1881.4	1912.7	1952.5	1979.6	1984.7	1994.0	2003.3
30°	2024.5	2017.7	2010.1	2001.6	2005.9	2025.4	2070.3	2094.0	2096.5	2103.3	2116.0
32.5°	2250.7	2243.1	2236.3	2222.7	2219.3	2210.9	2226.1	2232.0	2231.2	2238.0	2241.4
35°	2505.6	2506.5	2504.8	2515.0	2523.4	2480.2	2426.9	2412.5	2418.4	2410.8	2412.5
37.5°	2723.3	2725.9	2770.8	2826.7	2842.8	2815.7	2698.8	2641.2	2621.7	2619.2	2599.7
40°	2964.8	2964.8	3032.5	3101.1	3146.0	3179.9	3041.0	2939.4	2897.8	2886.0	2837.7
42.5°	3229.9	3216.3	3278.2	3353.6	3436.6	3513.7	3441.7	3327.3	3268.0	3246.8	3162.1
45°	3447.6	3439.1	3469.6	3539.9	3674.6	3825.4	3835.6	3777.1	3741.5	3697.5	3619.6
47.5°	3581.4	3577.2	3595.0	3671.2	3839.8	4083.8	4220.1	4249.8	4228.6	4194.7	4119.3
50°	3634.0	3628.0	3640.7	3725.4	3914.3	4236.2	4537.8	4677.6	4687.7	4695.3	4671.6
52.5°	3615.3	3607.7	3634.0	3705.1	3901.6	4289.6	4786.0	5054.5	5099.4	5137.5	5215.4
55°	3436.6	3424.7	3495.9	3629.7	3846.6	4270.1	4967.3	5417.0	5511.9	5613.6	5786.4
57.5°	3163.0	3152.8	3255.3	3439.1	3749.2	4216.7	5089.2	5875.3	6088.8	6271.7	6762.2
60°	2899.5	2891.1	2951.2	3129.1	3433.2	3956.7	4938.5	6029.5	6387.8	6782.5	7677.9
62.5°	2428.6	2405.7	2486.2	2636.1	2828.4	3273.1	4280.3	5686.4	6238.7	6819.0	8032.8
65°	1492.5	1525.6	1595.0	1761.1	2076.2	2288.0	3143.5	4600.5	5329.0	6056.6	7631.3
67.5°	947.9	957.2	1008.9	1124.1	1368.0	1580.6	1905.1	2886.8	3448.4	4164.2	5991.4
70°	812.3	818.3	862.3	982.6	1151.2	1412.9	1441.7	1507.8	1709.4	2165.1	3522.1
72.5°	640.4	650.6	685.3	789.5	992.8	1274.0	1779.7	1191.8	1151.2	1189.3	1718.7
75°	381.2	393.0	421.8	478.6	637.8	974.1	1864.4	1386.7	1292.6	1218.9	1185.9
77.5°	201.6	193.1	212.6	245.7	327.8	519.3	1401.1	1699.2	1633.2	1545.1	1357.9
80°	100.0	103.3	109.3	116.0	146.5	210.9	700.5	1757.7	1948.3	2033.0	1867.0
82.5°	39.8	44.9	63.5	67.8	80.5	89.8	225.3	974.1	1395.1	1892.4	2470.9
85°	20.3	19.5	33.9	40.7	47.4	42.4	79.6	363.4	653.9	1019.0	1651.0
87.5°	2.5	3.4	7.6	10.2	14.4	13.6	22.9	78.8	125.4	177.9	249.9
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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CATALOG NUMBER: VST-F05-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4
2.5°	1251.1	1250.3	1250.3	1246.9	1246.9	1247.7	1245.2	1243.5	1243.5	1244.4	1241.0
5°	1302.0	1299.4	1299.4	1296.0	1291.8	1291.8	1288.4	1287.6	1285.9	1282.5	1279.9
7.5°	1361.3	1358.7	1354.5	1351.9	1350.2	1347.7	1343.5	1341.8	1338.4	1335.0	1331.6
10°	1422.2	1418.9	1417.2	1412.9	1411.2	1406.1	1403.6	1404.5	1397.7	1395.1	1396.0
12.5°	1483.2	1479.8	1473.9	1472.2	1471.4	1466.3	1463.7	1462.1	1457.0	1456.1	1453.6
15°	1537.4	1539.1	1536.6	1532.4	1529.0	1528.1	1525.6	1523.9	1520.5	1517.1	1513.7
17.5°	1607.7	1610.3	1606.9	1601.0	1601.0	1600.1	1601.0	1600.1	1594.2	1596.7	1595.0
20°	1697.5	1699.2	1690.8	1693.3	1695.0	1694.2	1696.7	1699.2	1697.5	1697.5	1700.1
22.5°	1800.9	1803.4	1798.3	1801.7	1806.8	1802.6	1810.2	1809.4	1811.0	1813.6	1814.4
25°	1906.8	1911.8	1907.6	1916.9	1913.5	1916.9	1926.2	1923.7	1927.9	1934.7	1937.3
27.5°	2012.7	2016.0	2016.9	2022.8	2028.7	2033.8	2045.7	2045.7	2049.1	2060.9	2060.9
30°	2123.6	2127.0	2130.4	2138.9	2142.3	2151.6	2163.4	2166.8	2165.1	2182.1	2187.1
32.5°	2251.5	2254.9	2260.8	2271.0	2275.2	2284.6	2284.6	2293.9	2300.7	2315.1	2315.9
35°	2421.8	2424.3	2421.8	2420.9	2426.9	2439.6	2440.4	2454.0	2459.9	2474.3	2478.5
37.5°	2592.1	2591.2	2580.2	2568.3	2569.2	2564.1	2560.7	2566.6	2569.2	2570.0	2579.3
40°	2821.6	2799.6	2782.6	2753.0	2739.4	2718.3	2705.6	2704.7	2691.2	2689.5	2692.0
42.5°	3122.3	3096.9	3057.1	3007.1	2969.0	2930.0	2901.2	2884.3	2854.6	2839.4	2826.7
45°	3542.5	3479.8	3432.4	3373.1	3299.4	3231.6	3160.4	3128.3	3071.5	3036.8	2997.8
47.5°	4055.8	3994.0	3921.1	3860.1	3763.6	3669.5	3572.1	3486.6	3387.5	3308.7	3244.3
50°	4613.2	4576.7	4524.2	4467.5	4343.0	4281.1	4158.3	4042.2	3935.5	3794.9	3672.1
52.5°	5184.9	5206.1	5194.3	5173.9	5095.2	5071.4	4965.6	4824.1	4716.5	4620.0	4406.5
55°	5889.7	5915.1	5966.0	5995.6	5986.3	6046.4	6020.2	5910.0	5866.8	5822.0	5670.3
57.5°	6968.0	7149.3	7343.3	7513.6	7553.4	7766.8	7721.1	7831.2	7909.1	7853.2	7804.1
60°	8117.5	8483.5	8813.0	9157.7	9438.1	9648.2	9926.0	10113.2	10231.0	10442.7	10459.7
62.5°	8580.9	9078.1	9496.6	9896.4	10229.3	10520.7	10771.4	11029.8	11241.5	11433.0	11571.1
65°	8326.8	8846.0	9353.4	9759.2	10079.4	10330.1	10602.8	10807.8	11016.2	11139.0	11283.9
67.5°	6922.3	7610.1	8234.4	8691.8	9129.8	9384.8	9707.5	9909.1	10130.2	10259.8	10353.0
70°	4513.2	5408.6	6261.6	6955.3	7546.6	7843.9	8233.6	8508.9	8774.9	8781.6	8936.6
72.5°	2435.3	3184.2	3898.2	4607.2	5281.5	5677.1	6061.7	6396.3	6660.6	6547.9	6702.1
75°	1356.2	1706.9	2097.4	2523.4	2934.3	3160.4	3447.6	3449.3	3585.7	3371.4	3425.6
77.5°	1304.5	1288.4	1294.3	1306.2	1326.5	1283.3	1282.5	1256.2	1215.6	1141.9	1154.6
80°	1713.6	1508.6	1361.3	1130.0	909.8	742.0	695.4	706.5	739.5	805.6	889.4
82.5°	2477.7	2304.9	2057.5	1693.3	1329.1	1025.0	842.0	747.1	742.9	809.0	936.0
85°	1804.3	1908.5	1892.4	1579.8	1302.8	1058.0	770.0	650.6	538.7	512.5	557.4
87.5°	266.0	220.2	248.2	207.5	150.8	116.9	102.5	82.2	78.8	80.5	88.1
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4
2.5°	1241.8	1238.4	1235.0	1237.6	1235.0	1234.2	1231.6	1230.0	1229.1	1229.1	1229.1
5°	1279.9	1275.7	1273.2	1272.3	1269.8	1267.2	1266.4	1262.1	1261.3	1261.3	1258.8
7.5°	1331.6	1328.2	1324.0	1321.4	1319.7	1315.5	1311.3	1310.4	1309.6	1306.2	1303.6
10°	1391.7	1386.7	1381.6	1381.6	1378.2	1377.3	1373.1	1367.2	1366.3	1361.3	1359.6
12.5°	1448.5	1446.8	1440.9	1439.2	1436.6	1434.1	1431.6	1429.0	1426.5	1422.2	1423.9
15°	1516.3	1512.0	1506.9	1507.8	1506.9	1503.6	1500.2	1497.6	1495.9	1494.2	1494.2
17.5°	1597.6	1595.9	1595.0	1590.8	1587.4	1590.0	1590.0	1590.0	1585.7	1586.6	1587.4
20°	1700.9	1702.6	1700.9	1697.5	1696.7	1699.2	1693.3	1702.6	1697.5	1694.2	1695.8
22.5°	1815.3	1821.2	1814.4	1815.3	1819.5	1821.2	1815.3	1822.9	1820.4	1815.3	1819.5
25°	1939.8	1944.0	1940.7	1939.8	1942.3	1948.3	1947.4	1946.6	1952.5	1947.4	1950.0
27.5°	2067.7	2070.3	2071.9	2074.5	2076.2	2075.3	2078.7	2078.7	2082.1	2076.2	2078.7
30°	2194.8	2194.8	2198.2	2201.5	2201.5	2201.5	2208.3	2209.2	2204.1	2205.8	2199.9
32.5°	2330.3	2331.2	2334.5	2334.5	2341.3	2342.2	2349.8	2339.6	2349.8	2341.3	2343.0
35°	2489.6	2500.6	2502.3	2510.7	2517.5	2520.0	2520.0	2520.9	2530.2	2523.4	2526.0
37.5°	2582.7	2585.3	2592.1	2596.3	2596.3	2599.7	2602.2	2599.7	2602.2	2601.4	2603.9
40°	2692.9	2690.3	2697.9	2699.6	2696.2	2700.5	2699.6	2697.1	2703.9	2698.8	2702.2
42.5°	2826.7	2812.3	2811.4	2818.2	2811.4	2814.8	2814.0	2808.1	2816.5	2819.1	2816.5
45°	2969.8	2962.2	2947.0	2947.0	2940.2	2937.7	2938.5	2937.7	2938.5	2948.7	2952.1
47.5°	3202.8	3156.2	3129.9	3105.4	3085.0	3084.2	3074.9	3080.0	3086.7	3103.7	3118.9
50°	3593.3	3485.7	3419.6	3358.7	3314.6	3299.4	3281.6	3279.9	3285.8	3305.3	3331.5
52.5°	4289.6	4140.5	3999.9	3869.4	3755.9	3668.7	3625.5	3602.6	3594.1	3613.6	3639.0
55°	5563.6	5282.4	5084.1	4952.0	4669.9	4550.5	4397.2	4326.9	4258.2	4265.0	4308.2
57.5°	7740.6	7589.0	7422.9	7191.7	7018.9	6810.5	6427.6	6214.1	6223.5	6273.4	6117.6
60°	10593.5	10440.2	10371.6	10161.5	10041.2	9957.4	9754.1	9400.0	9274.6	9250.9	8964.6
62.5°	11676.9	11713.4	11767.6	11826.9	11823.5	11859.9	11682.0	11566.8	11422.0	11233.9	10951.0
65°	11394.0	11486.3	11596.5	11755.7	11937.0	12070.8	12183.5	12169.9	12034.4	11783.7	11484.7
67.5°	10436.0	10527.5	10607.9	10821.4	11118.7	11390.6	11631.2	11794.7	11704.0	11496.5	11147.5
70°	8995.9	9062.0	9112.8	9298.3	9624.5	9956.5	10270.8	10545.2	10517.3	10265.7	9987.0
72.5°	6518.2	6678.3	6764.7	6752.0	6953.6	7325.5	7369.6	7604.2	7669.4	7398.4	6954.5
75°	3175.7	3178.2	3078.3	3045.2	3055.4	3119.8	2997.0	3004.6	2962.2	2769.9	2611.5
77.5°	1109.7	1079.2	1006.3	919.9	796.3	680.2	562.5	511.6	494.7	444.7	410.0
80°	956.3	1001.2	986.8	915.7	785.2	626.0	467.6	346.5	295.6	277.8	260.9
82.5°	1086.0	1258.8	1368.9	1362.9	1184.2	889.4	554.8	318.5	227.0	199.1	183.0
85°	605.7	651.4	664.1	604.8	502.3	343.1	191.4	134.7	114.4	104.2	94.0
87.5°	96.6	88.1	86.4	75.4	71.2	65.2	57.6	54.2	50.0	47.4	47.4
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-F05-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4
2.5°	1228.3	1227.4	1224.9	1222.3	1220.6	1219.8	1218.9	1217.2	1216.4	1215.6	1213.9
5°	1257.1	1255.4	1251.1	1246.9	1245.2	1242.7	1240.1	1238.4	1236.7	1235.9	1232.5
7.5°	1302.0	1300.3	1295.2	1291.8	1290.9	1284.2	1283.3	1280.8	1276.5	1275.7	1270.6
10°	1356.2	1355.3	1351.1	1348.5	1346.9	1343.5	1338.4	1334.1	1329.9	1329.9	1326.5
12.5°	1418.9	1415.5	1418.0	1412.1	1410.4	1407.0	1404.5	1403.6	1398.5	1394.3	1393.4
15°	1492.5	1488.3	1488.3	1486.6	1484.9	1481.5	1480.7	1481.5	1476.5	1478.1	1473.1
17.5°	1584.0	1585.7	1584.9	1584.9	1580.6	1580.6	1573.9	1582.3	1576.4	1580.6	1578.9
20°	1698.4	1699.2	1697.5	1700.1	1701.8	1700.9	1700.1	1699.2	1701.8	1705.2	1702.6
22.5°	1820.4	1820.4	1819.5	1828.8	1818.7	1826.3	1828.8	1823.8	1837.3	1835.6	1838.2
25°	1952.5	1952.5	1959.3	1966.9	1968.6	1962.7	1966.1	1961.8	1970.3	1977.1	1978.8
27.5°	2075.3	2086.3	2091.4	2086.3	2090.6	2099.9	2099.1	2099.1	2105.0	2103.3	2119.4
30°	2201.5	2208.3	2215.1	2211.7	2213.4	2225.3	2226.1	2227.0	2234.6	2245.6	2257.5
32.5°	2345.6	2352.3	2348.9	2360.0	2359.1	2373.5	2376.0	2378.6	2402.3	2398.1	2422.6
35°	2522.6	2529.4	2526.0	2537.8	2536.1	2541.2	2550.5	2560.7	2564.9	2589.5	2609.0
37.5°	2605.6	2605.6	2613.2	2626.8	2631.9	2640.3	2654.7	2667.4	2688.6	2714.9	2745.4
40°	2705.6	2708.1	2718.3	2732.7	2742.0	2761.5	2787.7	2805.5	2837.7	2866.5	2902.1
42.5°	2826.7	2837.7	2849.6	2869.0	2889.4	2919.9	2957.1	2980.0	3022.4	3059.6	3103.7
45°	2968.2	2979.2	3007.1	3042.7	3072.3	3106.2	3136.7	3190.9	3229.1	3268.0	3306.1
47.5°	3139.3	3171.5	3194.3	3236.7	3273.1	3318.0	3356.1	3406.9	3448.4	3495.9	3528.1
50°	3358.7	3398.5	3428.1	3483.2	3518.8	3568.7	3617.0	3655.1	3697.5	3744.1	3770.3
52.5°	3673.8	3714.4	3751.7	3820.3	3864.4	3898.2	3962.6	4010.1	4049.0	4082.9	4111.7
55°	4356.5	4344.7	4448.0	4581.0	4596.2	4719.1	4741.9	4781.7	4853.7	4863.9	4944.4
57.5°	6307.3	6246.3	6396.3	6591.1	6557.2	6495.4	6753.7	6769.8	6733.4	6830.8	6720.7
60°	9007.0	8900.2	8940.9	8994.2	8917.2	8880.7	8893.4	8929.9	8894.3	8855.3	8748.6
62.5°	10809.5	10645.2	10527.5	10428.3	10303.0	10212.3	10110.7	9985.3	9951.4	9809.1	9689.7
65°	11194.1	10938.3	10751.9	10564.7	10391.9	10231.8	10078.5	9970.9	9828.6	9660.1	9535.5
67.5°	10771.4	10454.6	10181.8	9909.9	9714.3	9478.8	9363.6	9188.2	9012.9	8819.8	8705.4
70°	9543.2	9212.8	8869.7	8603.7	8337.8	8046.4	7989.6	7782.1	7681.3	7417.8	7372.1
72.5°	6586.9	6366.6	6213.3	5884.6	5722.8	5573.8	5526.3	5334.0	5354.4	5065.5	5170.5
75°	2342.2	2310.8	2265.9	2080.4	2047.4	1989.8	1974.5	1961.0	2098.2	1907.6	2045.7
77.5°	402.4	399.8	376.9	365.9	387.1	373.6	376.9	370.2	410.0	415.9	406.6
80°	249.9	243.1	235.5	230.4	231.3	226.2	227.0	228.7	231.3	230.4	232.9
82.5°	171.1	165.2	161.8	158.4	163.5	165.2	169.4	173.7	180.4	184.7	189.7
85°	93.2	85.6	85.6	84.7	91.5	96.6	103.3	111.8	123.7	133.8	144.8
87.5°	47.4	45.7	46.6	48.3	54.2	58.4	66.9	74.5	84.7	95.7	105.9
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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CATALOG NUMBER: VST-F05-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4	1216.4
2.5°	1213.0	1213.0	1212.2	1212.2	1211.3	1210.5	1209.6	1207.1	1197.8	1189.3	1183.4
5°	1231.6	1229.1	1228.3	1225.7	1224.9	1223.2	1220.6	1218.1	1201.2	1185.9	1174.9
7.5°	1269.8	1266.4	1264.7	1262.1	1259.6	1256.2	1252.8	1250.3	1230.0	1212.2	1198.6
10°	1319.7	1318.0	1317.2	1313.8	1313.8	1308.7	1307.9	1302.0	1279.9	1263.8	1252.0
12.5°	1389.2	1385.8	1385.0	1380.7	1382.4	1380.7	1379.0	1375.7	1359.6	1340.9	1324.8
15°	1475.6	1475.6	1471.4	1468.0	1468.8	1467.1	1470.5	1466.3	1456.1	1439.2	1412.9
17.5°	1579.8	1578.1	1579.8	1577.3	1578.9	1580.6	1576.4	1577.3	1572.2	1551.0	1512.0
20°	1700.9	1698.4	1708.6	1704.3	1713.6	1705.2	1706.9	1709.4	1709.4	1681.4	1628.9
22.5°	1839.8	1838.2	1838.2	1846.6	1850.0	1850.9	1854.2	1856.8	1863.6	1828.0	1744.1
25°	1978.8	1984.7	1985.5	1996.6	2001.6	2001.6	2004.2	2013.5	2033.8	1984.7	1876.3
27.5°	2120.2	2134.6	2138.0	2145.6	2153.3	2160.9	2166.8	2173.6	2206.6	2153.3	2011.8
30°	2261.7	2277.8	2289.6	2298.1	2307.4	2326.1	2329.5	2343.0	2398.1	2332.8	2140.6
32.5°	2427.7	2450.6	2465.8	2476.8	2491.2	2509.0	2519.2	2536.1	2589.5	2482.8	2234.6
35°	2625.9	2639.5	2661.5	2680.1	2688.6	2719.1	2735.2	2739.4	2780.1	2612.4	2304.0
37.5°	2763.2	2786.0	2824.2	2850.4	2865.7	2882.6	2909.7	2927.5	2966.5	2730.1	2338.8
40°	2937.7	2972.4	3002.9	3041.8	3066.4	3079.1	3106.2	3120.6	3125.7	2830.9	2327.8
42.5°	3150.3	3181.6	3222.3	3253.6	3272.3	3286.7	3308.7	3314.6	3248.5	2878.4	2268.5
45°	3350.2	3398.5	3433.2	3456.1	3469.6	3477.2	3490.8	3491.6	3350.2	2854.6	2166.8
47.5°	3565.3	3600.1	3632.3	3648.4	3646.7	3648.4	3643.3	3639.9	3401.0	2772.5	2036.4
50°	3803.4	3826.2	3839.8	3847.4	3851.7	3835.6	3812.7	3797.4	3405.2	2655.6	1904.2
52.5°	4122.7	4151.5	4149.0	4148.1	4114.2	4099.0	4038.0	4006.7	3380.7	2518.4	1755.1
55°	4931.7	4903.7	4848.7	4875.8	4737.7	4665.7	4570.8	4482.7	3412.9	2387.9	1582.3
57.5°	6764.7	6775.8	6619.0	6535.2	6302.2	6010.8	5776.2	5548.3	3702.6	2308.3	1357.0
60°	8677.4	8533.4	8334.4	8031.1	7731.3	7298.4	6880.8	6486.1	3991.4	2225.3	1090.2
62.5°	9512.7	9307.7	9007.0	8614.8	8143.8	7614.4	7094.3	6613.1	3851.7	1956.7	792.9
65°	9343.2	9029.8	8697.8	8238.7	7666.0	7085.8	6478.4	5987.1	3222.3	1459.5	488.8
67.5°	8457.2	8191.2	7840.5	7295.9	6683.4	6079.5	5522.9	4972.3	2393.8	909.8	273.6
70°	7138.3	6878.3	6522.5	5965.1	5353.5	4775.8	4186.2	3737.3	1525.6	438.8	197.4
72.5°	4952.0	4741.1	4489.5	4092.2	3556.0	3030.8	2631.9	2287.1	845.4	232.9	180.4
75°	2011.0	2011.8	1966.1	1798.3	1519.7	1310.4	1117.3	947.9	353.2	198.2	177.9
77.5°	455.7	463.4	506.6	480.3	432.9	404.9	362.5	320.2	215.2	204.1	179.6
80°	230.4	231.3	228.7	229.6	227.0	227.9	224.5	221.9	201.6	210.1	179.6
82.5°	192.3	196.5	195.7	195.7	196.5	196.5	196.5	195.7	209.2	221.1	173.7
85°	152.5	160.9	167.7	174.5	182.1	187.2	189.7	192.3	203.3	217.7	157.6
87.5°	115.2	125.4	133.8	140.6	152.5	152.5	160.9	166.9	166.9	170.3	83.0
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: P159336

CATALOG NUMBER: VST-F05-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1216.4	1216.4	1216.4	1216.4	1216.4
2.5°	1174.9	1171.5	1168.1	1166.4	1163.0
5°	1166.4	1159.6	1155.4	1155.4	1152.0
7.5°	1191.0	1188.4	1182.5	1179.1	1182.5
10°	1243.5	1239.3	1232.5	1227.4	1230.0
12.5°	1313.8	1296.9	1283.3	1277.4	1273.2
15°	1386.7	1352.8	1325.7	1310.4	1306.2
17.5°	1464.6	1405.3	1364.6	1341.8	1337.5
20°	1544.2	1470.5	1412.9	1383.3	1382.4
22.5°	1639.9	1541.7	1468.0	1429.0	1426.5
25°	1740.7	1605.2	1507.8	1457.8	1452.7
27.5°	1828.0	1656.0	1532.4	1473.1	1468.0
30°	1900.8	1694.2	1552.7	1484.1	1477.3
32.5°	1953.4	1716.2	1561.2	1487.5	1479.8
35°	1970.3	1707.7	1537.4	1457.0	1448.5
37.5°	1947.4	1652.6	1471.4	1382.4	1372.3
40°	1878.8	1556.1	1363.8	1272.3	1259.6
42.5°	1773.8	1437.5	1234.2	1146.9	1130.8
45°	1644.2	1303.6	1105.4	1008.0	1000.4
47.5°	1508.6	1163.0	960.6	872.5	863.2
50°	1362.1	1000.4	819.1	723.4	723.4
52.5°	1187.6	842.0	654.8	582.8	576.9
55°	986.8	663.3	521.8	466.7	459.1
57.5°	770.8	509.9	416.8	384.6	376.1
60°	566.7	382.9	335.4	317.7	314.3
62.5°	384.6	291.4	270.2	262.6	261.7
65°	260.1	227.0	221.1	218.5	219.4
67.5°	199.9	188.9	186.4	185.5	185.5
70°	173.7	166.9	164.3	165.2	164.3
72.5°	163.5	154.2	155.0	156.7	155.9
75°	160.1	148.2	151.6	152.5	149.1
77.5°	157.6	141.5	149.9	152.5	143.2
80°	152.5	135.5	155.9	156.7	140.6
82.5°	139.8	120.3	155.9	144.0	127.1
85°	118.6	91.5	176.2	125.4	94.0
87.5°	75.4	54.2	119.4	85.6	56.8
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)