

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: P158004

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158004
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33711)
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-RW-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9396 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full 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

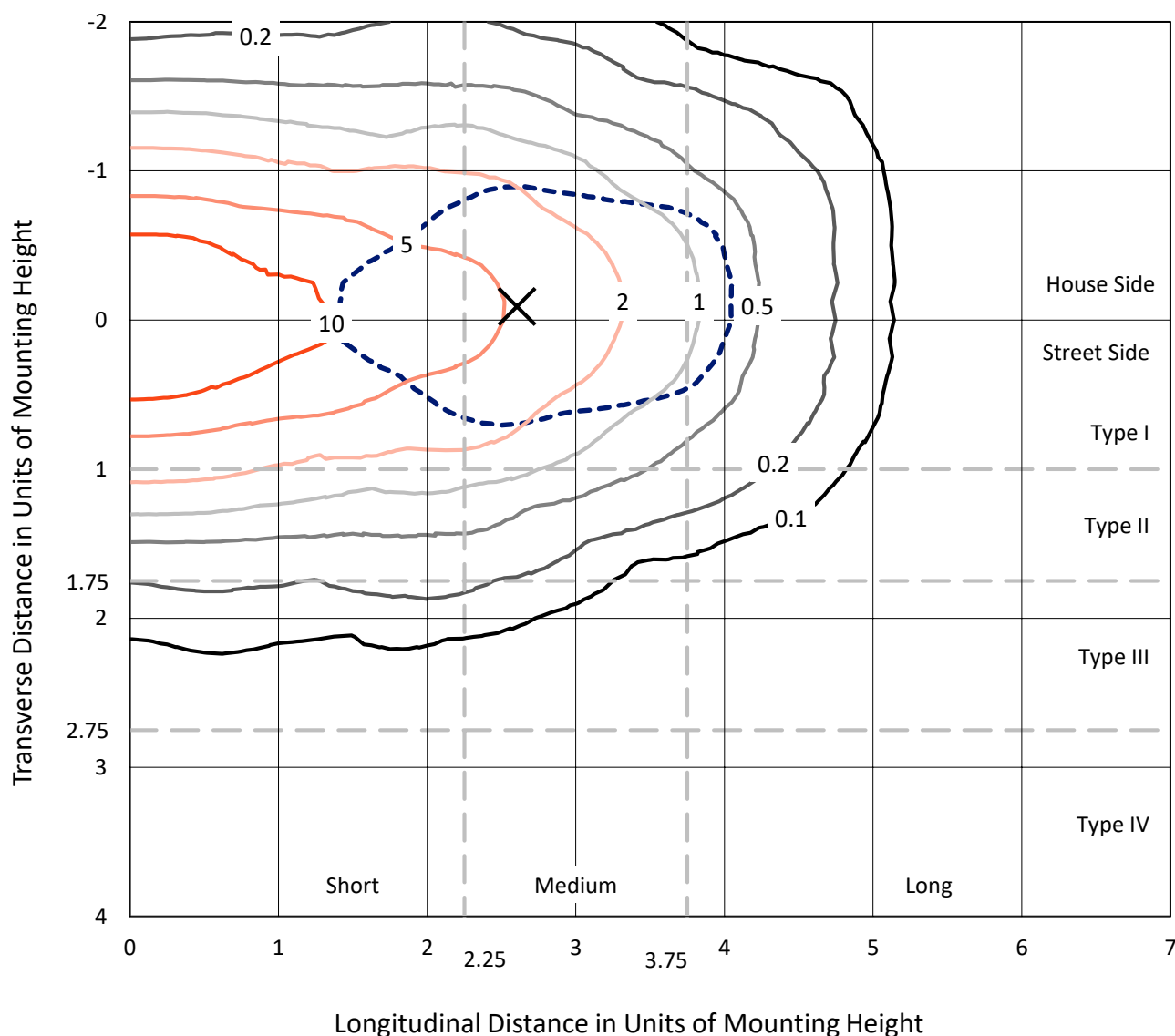


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

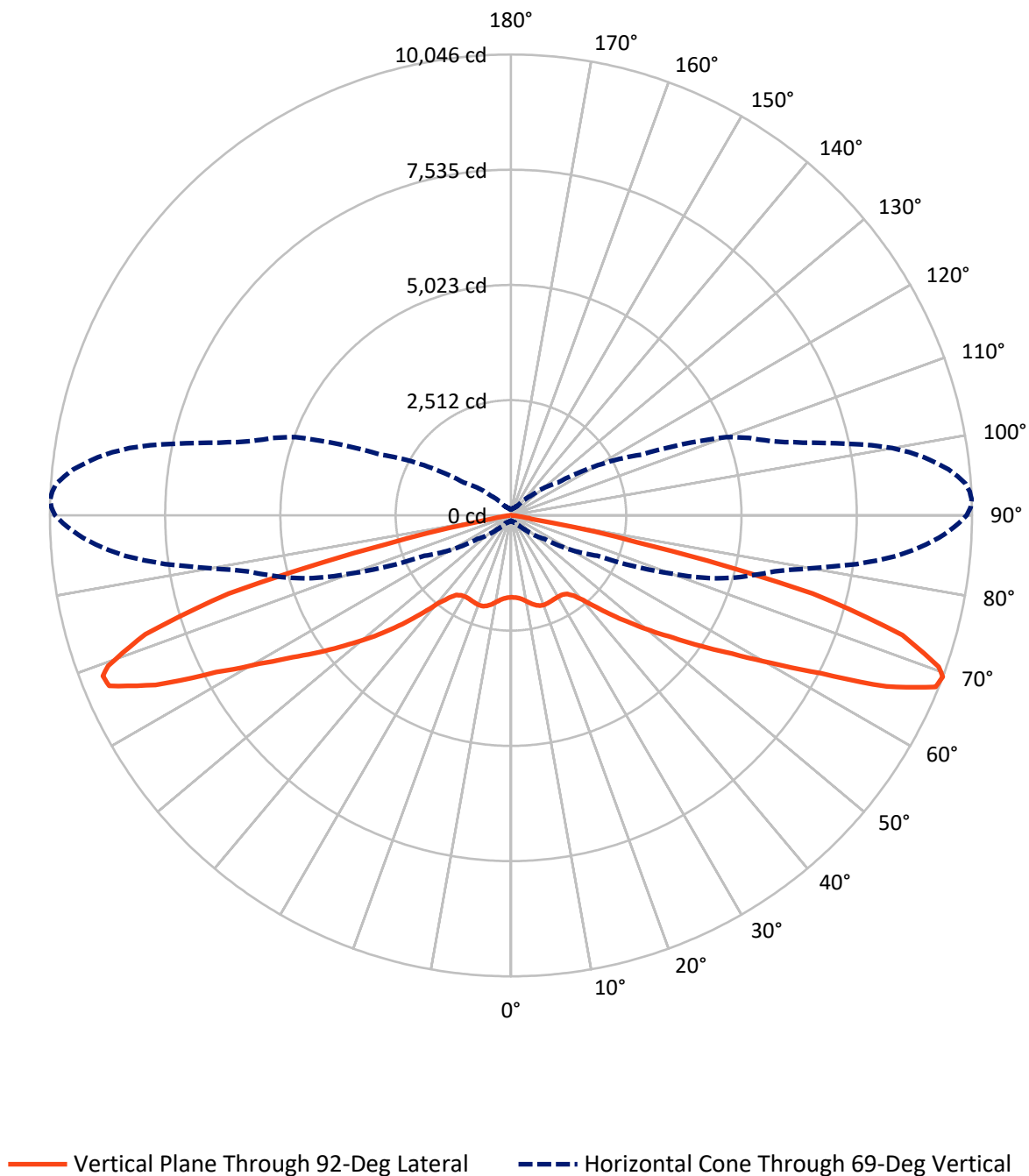


Based on 10 foot mounting height. Maximum calculated value = 18.3 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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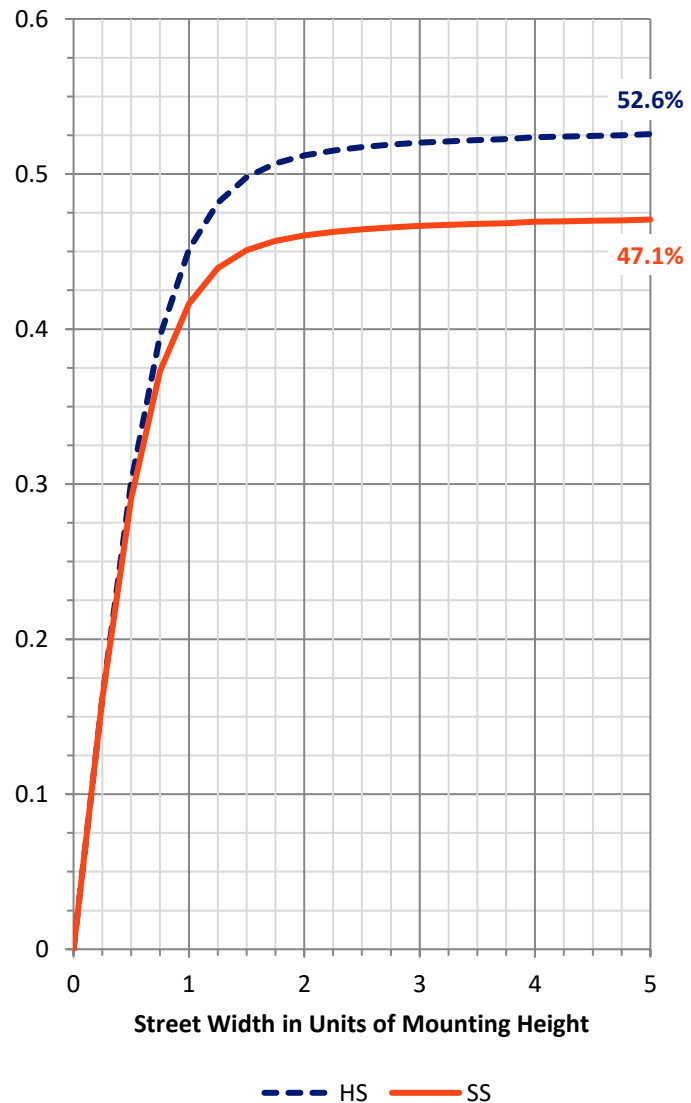
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4983.2	0.0	4983.2
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	4412.8	0.0	4412.8
	% Fixture	47.0	0.0	47.0
Total	Lumens	9396.0	0.0	9396.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	174.6	1.9
10°-20°	551.7	5.9
20°-30°	895.1	9.5
30°-40°	1115.6	11.9
40°-50°	1389.0	14.8
50°-60°	1713.0	18.2
60°-70°	2127.4	22.6
70°-80°	1307.2	13.9
80°-90°	122.5	1.3
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°	9396.0	100.0
0°-180°	9396.0	100.0

Coefficient of Utilization



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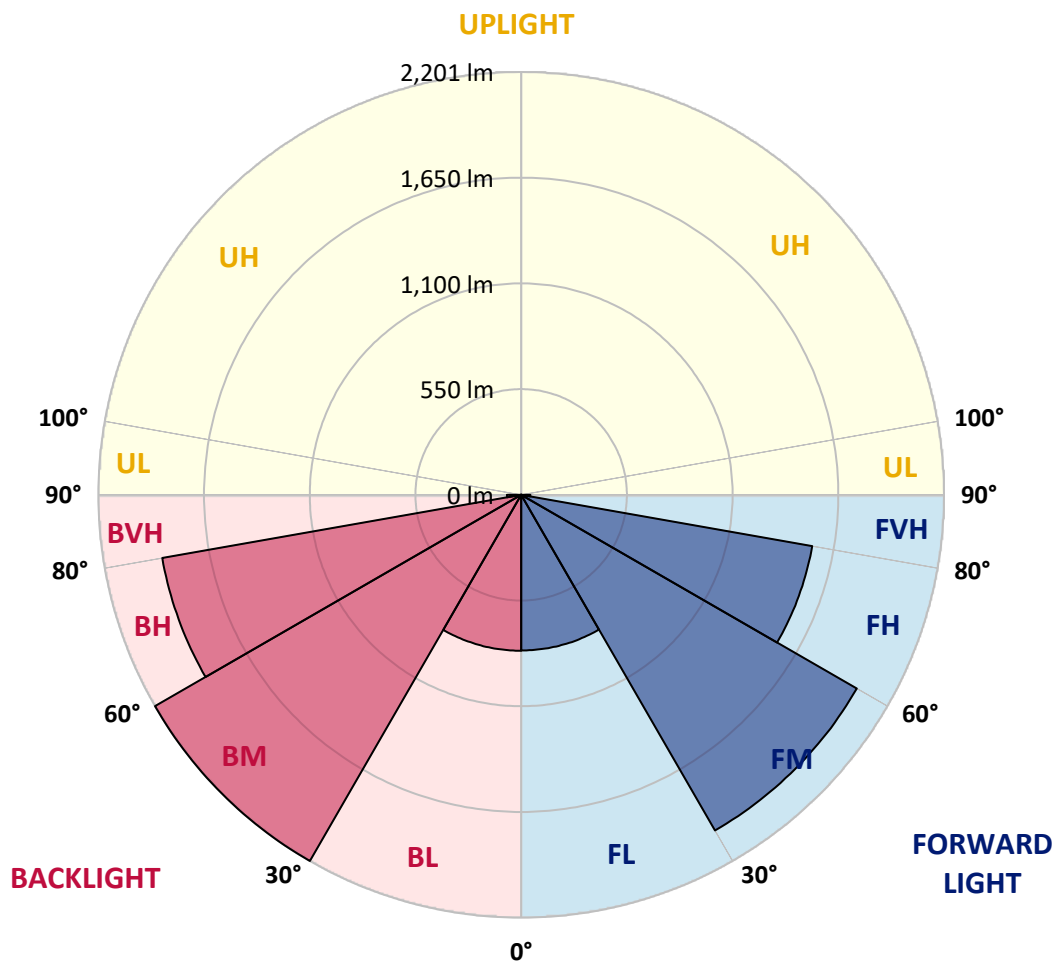
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	809.9	8.6			
FM	(30°-60°)	2017.0	21.5			
FH	(60°-80°)	1538.0	16.4			G1/1800
FVH	(80°-90°)	48.0	0.5			G1/100
BL	(0°-30°)	811.6	8.6	B2/1000		
BM	(30°-60°)	2200.5	23.4	B2/2500		
BH	(60°-80°)	1896.5	20.2	B3/2500		G3/2500
BVH	(80°-90°)	74.5	0.8			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 I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9
2.5°	1813.2	1808.4	1812.6	1813.2	1812.6	1812.6	1807.2	1806.0	1798.7	1800.5	1799.9
5°	1837.9	1836.1	1839.1	1840.3	1841.6	1839.1	1834.9	1833.1	1828.3	1826.5	1825.9
7.5°	1860.9	1857.8	1862.7	1866.9	1869.9	1870.5	1871.1	1868.1	1868.1	1865.7	1865.7
10°	1880.2	1877.7	1885.6	1891.0	1900.7	1906.1	1912.1	1916.3	1918.8	1919.4	1918.8
12.5°	1888.6	1886.8	1899.5	1915.7	1933.8	1946.5	1961.6	1972.4	1975.5	1974.9	1977.9
15°	1874.1	1875.3	1894.6	1926.6	1965.2	1997.2	2018.3	2027.3	2029.8	2031.0	2031.6
17.5°	1834.9	1837.3	1865.1	1917.0	1984.5	2042.4	2073.8	2073.8	2069.0	2069.0	2068.4
20°	1772.2	1774.6	1810.8	1885.6	1985.1	2073.8	2118.4	2109.4	2091.3	2087.7	2084.0
22.5°	1685.3	1695.0	1734.8	1821.6	1959.2	2082.8	2146.2	2132.9	2104.5	2096.7	2091.3
25°	1587.0	1585.8	1633.5	1731.2	1896.4	2061.1	2154.0	2151.6	2121.4	2113.0	2103.3
27.5°	1474.8	1478.4	1522.5	1621.4	1800.5	1998.4	2140.7	2172.7	2148.0	2139.5	2130.5
30°	1359.6	1363.2	1404.8	1520.1	1691.4	1908.5	2113.6	2193.2	2183.6	2176.9	2170.9
32.5°	1243.8	1245.0	1294.5	1418.1	1599.1	1801.1	2072.6	2211.9	2225.2	2222.2	2219.8
35°	1135.2	1136.4	1190.1	1315.6	1508.0	1709.5	2023.1	2239.1	2281.9	2285.5	2287.9
37.5°	1029.7	1031.5	1086.4	1217.9	1418.1	1640.1	1968.2	2280.7	2361.5	2374.8	2377.2
40°	924.7	926.5	979.0	1118.3	1327.0	1579.2	1926.0	2339.2	2468.9	2487.0	2505.7
42.5°	824.6	831.2	875.8	1009.1	1225.7	1503.8	1907.9	2410.4	2596.2	2624.5	2645.6
45°	731.1	731.7	782.3	907.2	1105.7	1401.8	1895.8	2491.2	2738.5	2781.3	2810.3
47.5°	630.9	638.2	691.3	812.5	993.5	1275.8	1857.2	2585.9	2893.5	2943.6	3002.1
50°	533.8	544.1	595.4	715.4	890.9	1145.5	1753.5	2696.9	3067.8	3133.0	3200.6
52.5°	440.3	439.7	494.0	618.9	787.8	1035.1	1585.2	2813.3	3269.3	3339.3	3412.3
55°	333.0	333.0	386.6	500.7	676.2	936.8	1404.8	2885.7	3456.3	3540.8	3620.4
57.5°	228.6	234.6	285.3	383.6	559.8	846.9	1266.7	2844.1	3599.3	3704.2	3798.9
60°	169.5	175.5	212.9	275.7	437.9	740.7	1163.0	2648.0	3685.5	3824.9	3947.9
62.5°	146.6	150.8	186.4	220.8	315.5	627.9	1071.3	2398.9	3809.8	4000.4	4171.7
65°	130.9	135.1	170.7	190.6	246.7	504.9	1020.0	2256.6	3958.2	4249.5	4498.0
67.5°	121.2	126.1	156.2	170.7	215.3	456.6	980.2	2223.4	3957.0	4310.4	4627.7
69°	116.4	120.0	144.8	160.4	208.1	442.1	893.9	2079.2	3695.8	4075.2	4393.7
70°	113.4	117.0	138.1	153.8	205.7	416.2	814.3	1888.6	3398.4	3780.2	4103.5
72.5°	103.7	107.4	123.1	137.5	171.3	278.1	567.6	1208.8	2428.5	2701.1	3070.9
75°	91.7	95.9	108.0	120.0	129.7	161.1	327.5	627.3	1388.6	1595.5	1924.8
77.5°	74.8	79.0	91.7	111.0	109.8	122.4	212.9	385.4	650.2	806.5	928.3
80°	61.5	64.5	75.4	112.2	89.9	102.5	172.5	316.1	457.8	506.1	535.0
82.5°	41.0	45.2	58.5	88.1	68.8	73.0	129.1	295.6	387.3	424.6	459.6
85°	19.3	21.1	35.6	47.0	41.6	39.2	73.6	208.7	288.3	305.8	319.1
87.5°	0.0	0.0	1.8	3.6	5.4	5.4	13.3	44.0	80.8	97.7	96.5
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9
2.5°	1797.5	1798.1	1797.5	1797.5	1796.9	1795.7	1795.7	1794.5	1795.1	1794.5	1795.7
5°	1825.3	1825.3	1823.5	1822.3	1824.1	1822.3	1822.9	1819.8	1819.8	1818.0	1815.6
7.5°	1865.1	1865.1	1865.7	1862.1	1864.5	1865.1	1863.3	1862.1	1860.9	1857.8	1858.4
10°	1918.2	1918.2	1920.0	1915.1	1917.6	1918.8	1919.4	1919.4	1918.2	1912.7	1913.3
12.5°	1977.3	1976.1	1976.7	1974.3	1976.7	1977.9	1979.1	1977.9	1977.9	1976.7	1976.1
15°	2031.0	2030.4	2031.6	2029.8	2030.4	2031.6	2035.2	2034.6	2034.0	2030.4	2030.4
17.5°	2067.8	2065.9	2064.7	2064.1	2064.1	2063.5	2064.1	2064.1	2062.3	2061.7	2061.7
20°	2081.6	2076.8	2073.8	2072.0	2069.6	2068.4	2067.1	2067.8	2066.5	2064.7	2065.3
22.5°	2084.0	2077.4	2071.4	2065.9	2061.1	2058.1	2055.1	2053.9	2050.9	2049.1	2049.1
25°	2095.5	2085.2	2075.6	2066.5	2059.3	2052.7	2046.0	2041.2	2037.6	2033.4	2032.2
27.5°	2120.8	2110.0	2098.5	2087.1	2077.4	2064.1	2055.1	2045.4	2037.0	2030.4	2025.5
30°	2160.0	2149.2	2137.7	2124.5	2111.8	2097.9	2082.8	2071.4	2059.3	2046.0	2038.8
32.5°	2211.9	2204.7	2193.2	2180.5	2169.1	2154.6	2136.5	2119.0	2107.6	2091.9	2080.4
35°	2286.1	2277.7	2274.0	2268.6	2257.2	2248.1	2228.2	2211.9	2201.1	2179.3	2170.9
37.5°	2387.4	2386.8	2389.9	2388.0	2389.9	2378.4	2369.3	2368.7	2353.1	2332.0	2311.4
40°	2525.6	2532.8	2549.1	2560.6	2571.4	2572.6	2585.3	2572.0	2573.8	2570.8	2549.7
42.5°	2683.0	2707.7	2727.0	2760.8	2786.8	2810.9	2827.2	2849.5	2866.4	2881.5	2885.1
45°	2858.5	2895.3	2940.0	2970.1	3020.8	3061.2	3116.7	3159.5	3204.2	3248.2	3263.9
47.5°	3049.1	3095.0	3144.5	3200.6	3264.5	3327.8	3413.5	3479.2	3551.0	3610.7	3663.8
50°	3259.7	3307.3	3373.7	3438.2	3526.3	3599.3	3711.5	3797.7	3913.5	3993.1	4061.9
52.5°	3479.2	3538.9	3613.1	3684.3	3774.2	3867.7	3992.5	4119.8	4259.2	4379.8	4479.9
55°	3694.0	3767.6	3838.7	3922.0	4021.5	4130.1	4271.2	4438.9	4612.6	4750.8	4883.5
57.5°	3885.2	3970.2	4054.1	4138.5	4240.5	4366.5	4525.2	4706.1	4905.2	5089.2	5271.3
60°	4062.5	4164.5	4267.0	4372.6	4489.6	4645.2	4835.8	5058.4	5316.0	5567.5	5805.7
62.5°	4343.0	4476.9	4604.2	4740.5	4881.7	5064.4	5289.4	5581.4	5876.9	6191.2	6435.5
65°	4723.0	4911.2	5077.7	5254.4	5437.2	5681.5	5950.5	6299.8	6723.2	7045.3	7437.4
67.5°	4911.8	5159.7	5373.9	5570.5	5796.7	6043.4	6363.1	6776.3	7228.1	7695.0	8132.3
69°	4689.8	4945.6	5182.6	5402.8	5631.4	5870.9	6205.1	6629.1	7106.8	7611.7	8038.8
70°	4402.1	4657.9	4910.6	5161.5	5370.2	5603.7	5939.1	6376.4	6853.5	7378.3	7801.7
72.5°	3372.5	3680.1	3908.7	4143.9	4385.8	4583.7	4970.9	5339.5	5836.5	6369.1	6835.4
75°	2157.6	2440.5	2690.2	2890.5	3127.0	3364.0	3649.9	4059.5	4370.7	4808.1	5186.3
77.5°	1108.7	1192.5	1433.2	1505.0	1669.0	1798.1	1955.6	2058.1	2311.4	2365.1	2588.3
80°	525.4	473.5	445.8	420.4	427.7	424.6	412.0	395.1	416.2	407.2	403.5
82.5°	457.8	408.4	325.7	276.9	239.5	203.3	174.9	160.4	162.3	167.1	168.9
85°	320.9	301.6	235.2	178.5	139.3	108.0	86.9	83.2	85.7	92.3	89.9
87.5°	92.9	97.1	85.7	59.7	41.6	30.2	23.5	26.5	25.3	24.7	25.9
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9
2.5°	1795.7	1795.1	1793.3	1791.5	1791.5	1790.3	1791.5	1792.1	1791.5	1791.5	1790.3
5°	1816.2	1816.8	1818.6	1815.0	1814.4	1815.0	1812.6	1812.0	1810.2	1812.0	1809.6
7.5°	1855.4	1857.2	1857.2	1854.8	1854.2	1856.0	1852.4	1851.2	1849.4	1848.8	1848.2
10°	1913.9	1915.7	1912.7	1910.9	1909.1	1911.5	1908.5	1908.5	1906.7	1904.9	1904.3
12.5°	1979.1	1977.9	1976.7	1977.9	1976.1	1976.1	1974.3	1973.1	1972.4	1971.8	1970.6
15°	2029.8	2034.0	2034.0	2035.2	2034.0	2034.0	2031.6	2032.2	2031.0	2030.4	2031.0
17.5°	2062.3	2063.5	2066.5	2068.4	2068.4	2069.0	2067.8	2069.0	2067.8	2067.8	2070.2
20°	2066.5	2067.8	2070.8	2073.8	2075.6	2076.8	2076.8	2078.6	2079.8	2081.0	2084.0
22.5°	2049.7	2051.5	2055.1	2060.5	2063.5	2064.7	2067.1	2070.2	2073.2	2075.6	2079.8
25°	2032.2	2032.8	2036.4	2041.8	2045.4	2048.4	2052.7	2056.3	2060.5	2065.3	2070.2
27.5°	2022.5	2021.9	2024.9	2030.4	2033.4	2037.6	2041.2	2046.6	2051.5	2057.5	2061.7
30°	2031.0	2026.1	2026.7	2029.1	2031.6	2034.6	2038.8	2043.6	2049.1	2054.5	2059.3
32.5°	2068.4	2057.5	2050.3	2048.4	2049.1	2049.7	2052.1	2055.1	2059.3	2063.5	2065.3
35°	2149.2	2130.5	2120.8	2113.0	2106.4	2100.9	2102.1	2101.5	2101.5	2105.1	2100.9
37.5°	2303.0	2279.5	2269.2	2255.3	2247.5	2227.6	2222.2	2221.0	2213.1	2213.1	2204.1
40°	2544.3	2530.4	2522.6	2509.9	2471.9	2476.7	2449.6	2450.2	2427.9	2430.3	2414.6
42.5°	2887.5	2889.3	2879.7	2871.2	2841.7	2828.4	2803.0	2766.9	2738.5	2737.9	2706.5
45°	3284.4	3306.1	3275.3	3286.2	3260.3	3224.7	3195.1	3148.7	3104.6	3090.8	3058.8
47.5°	3699.4	3735.0	3711.5	3715.7	3703.0	3652.3	3612.5	3555.2	3497.9	3459.3	3440.0
50°	4142.7	4166.3	4165.7	4154.2	4148.2	4098.7	4034.8	3991.3	3949.1	3897.2	3880.4
52.5°	4544.5	4599.4	4636.2	4627.7	4610.2	4580.7	4524.0	4486.6	4424.4	4417.2	4424.4
55°	4974.5	5045.7	5083.1	5128.4	5129.0	5123.5	5100.0	5086.1	5028.2	5034.9	5026.4
57.5°	5381.7	5486.1	5543.4	5639.9	5673.0	5717.1	5700.8	5718.9	5683.9	5706.8	5700.2
60°	5933.6	6078.4	6173.7	6305.8	6367.3	6477.7	6499.4	6512.7	6532.0	6579.0	6552.5
62.5°	6627.9	6840.2	7038.1	7217.8	7276.9	7442.8	7470.0	7573.7	7579.1	7611.1	7552.6
65°	7764.3	8023.1	8240.8	8456.2	8580.4	8774.7	8853.1	9054.6	8993.0	9019.0	8894.1
67.5°	8508.7	8809.7	9101.6	9305.5	9511.8	9710.2	9853.2	9983.5	9982.3	9956.9	9845.9
69°	8442.9	8778.3	9066.0	9339.3	9556.4	9760.3	9932.2	10016.7	10046.2	10009.4	9930.4
70°	8215.5	8559.9	8912.2	9137.2	9373.6	9597.4	9774.8	9867.1	9887.6	9861.6	9793.5
72.5°	7164.7	7495.3	7883.8	8088.2	8374.2	8535.8	8780.1	8899.5	8920.6	8887.5	8842.8
75°	5591.6	5651.3	6047.0	6177.3	6384.8	6571.2	6723.2	6684.6	6792.6	6771.5	6754.6
77.5°	2634.2	2474.9	2731.3	2850.7	2788.0	2620.9	2864.0	2688.4	2804.9	2956.3	2917.7
80°	434.3	433.1	444.6	469.9	439.7	466.9	466.3	453.0	454.2	486.8	469.9
82.5°	167.1	170.7	172.5	177.3	177.3	177.9	181.0	184.6	181.6	187.6	186.4
85°	90.5	96.5	91.1	86.9	89.9	91.7	94.1	97.1	94.1	103.1	98.3
87.5°	23.5	24.7	21.7	21.7	21.1	19.3	19.3	20.5	22.3	26.5	29.0
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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CATALOG NUMBER: VST-F04-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9
2.5°	1787.9	1788.5	1789.1	1787.3	1786.1	1786.1	1785.5	1784.3	1783.6	1783.6	1783.6
5°	1808.4	1809.6	1806.6	1806.0	1804.8	1803.6	1803.6	1802.3	1802.9	1802.9	1799.9
7.5°	1849.4	1847.6	1844.0	1841.6	1844.0	1839.7	1837.9	1839.1	1837.9	1838.5	1837.3
10°	1904.3	1904.3	1900.1	1902.5	1899.5	1894.6	1896.4	1894.6	1893.4	1889.2	1891.6
12.5°	1972.4	1970.6	1968.2	1962.8	1961.0	1960.4	1955.0	1955.6	1953.7	1952.5	1950.7
15°	2032.2	2031.6	2026.1	2023.1	2022.5	2020.1	2017.7	2016.5	2013.5	2012.9	2011.7
17.5°	2072.0	2070.2	2067.8	2064.7	2064.7	2061.1	2059.9	2056.9	2056.3	2054.5	2052.7
20°	2085.2	2085.8	2083.4	2081.0	2079.8	2077.4	2075.6	2073.2	2072.0	2069.6	2067.8
22.5°	2082.2	2082.2	2079.8	2079.2	2076.8	2073.2	2070.8	2067.8	2064.7	2061.7	2058.1
25°	2072.6	2072.0	2070.2	2067.1	2064.1	2058.7	2053.9	2049.1	2044.8	2041.2	2035.8
27.5°	2064.1	2062.9	2059.3	2055.1	2049.1	2043.0	2034.0	2027.3	2021.9	2017.1	2011.1
30°	2061.1	2056.9	2051.5	2044.8	2037.6	2028.5	2018.9	2010.4	2004.4	1999.6	1997.2
32.5°	2064.7	2059.3	2050.9	2042.4	2033.4	2022.5	2012.9	2005.6	2000.2	1999.0	1999.0
35°	2097.9	2088.9	2077.4	2065.3	2053.9	2044.8	2038.2	2037.6	2034.0	2038.2	2044.8
37.5°	2195.0	2187.2	2169.7	2154.0	2146.2	2141.9	2135.9	2137.1	2128.7	2141.9	2152.8
40°	2401.3	2391.7	2371.2	2358.5	2342.8	2327.7	2339.8	2336.2	2342.2	2339.8	2351.3
42.5°	2702.3	2692.7	2660.1	2655.3	2648.6	2642.6	2642.6	2637.8	2635.4	2643.8	2634.2
45°	3068.5	3049.1	3037.1	3051.6	3031.7	3037.7	3058.8	3030.5	3037.1	2997.9	2961.7
47.5°	3448.5	3446.7	3443.6	3461.1	3464.1	3473.2	3484.7	3455.7	3403.2	3373.7	3300.1
50°	3885.8	3904.5	3911.7	3928.6	3935.8	3942.5	3924.4	3881.6	3792.9	3714.5	3627.6
52.5°	4417.2	4384.6	4429.3	4445.5	4438.3	4411.8	4346.6	4294.1	4171.7	4058.9	3924.4
55°	5036.1	5043.9	5012.5	4999.9	4975.2	4901.6	4811.7	4693.5	4538.4	4391.3	4221.2
57.5°	5666.4	5663.4	5614.5	5545.8	5461.9	5373.3	5239.3	5069.9	4888.9	4691.0	4485.4
60°	6433.1	6430.1	6331.1	6213.5	6094.1	5951.1	5741.2	5537.3	5294.8	5034.9	4790.0
62.5°	7440.4	7310.7	7213.6	7038.1	6853.5	6666.5	6382.4	6111.6	5787.7	5459.5	5173.6
65°	8731.2	8517.7	8407.3	8152.8	7866.9	7574.9	7286.0	6930.1	6494.0	6097.1	5747.8
67.5°	9686.1	9490.7	9288.6	9034.7	8721.0	8395.3	7999.6	7551.4	7056.2	6611.0	6230.4
69°	9769.9	9587.2	9344.7	9090.1	8793.4	8439.3	8007.4	7505.6	7003.7	6553.1	6178.5
70°	9642.7	9448.4	9193.3	8928.5	8596.7	8262.6	7810.2	7287.2	6784.7	6332.9	5967.4
72.5°	8693.2	8503.8	8232.4	7915.7	7575.5	7289.6	6860.1	6314.8	5768.4	5350.9	5066.2
75°	6610.4	6568.8	6376.4	6191.8	5924.0	5604.9	5212.2	4845.5	4397.3	3955.8	3690.3
77.5°	2820.5	2916.4	3016.6	3031.1	3040.7	2942.4	2881.5	2789.2	2489.4	2353.1	2212.5
80°	521.2	465.7	497.0	500.7	521.2	532.0	571.8	678.0	690.1	716.0	748.0
82.5°	185.2	188.2	193.0	194.8	196.6	203.9	231.0	276.9	318.5	372.8	445.2
85°	105.0	106.8	111.0	114.6	117.0	124.3	139.3	166.5	207.5	269.6	365.5
87.5°	32.0	36.2	38.6	43.4	45.2	46.4	53.1	71.2	91.7	135.7	197.8
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-RW-7030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9	1784.9
2.5°	1783.6	1783.0	1781.8	1780.6	1781.2	1780.0	1776.4	1775.2	1771.0	1768.0	1765.6
5°	1799.9	1799.3	1796.9	1797.5	1796.9	1790.9	1786.7	1779.4	1775.2	1768.6	1766.2
7.5°	1833.7	1833.1	1828.9	1830.7	1829.5	1820.4	1813.2	1801.7	1795.7	1787.3	1780.6
10°	1884.4	1884.4	1879.6	1880.2	1880.2	1868.1	1855.4	1836.1	1822.3	1809.0	1797.5
12.5°	1945.9	1943.5	1942.9	1939.9	1937.5	1924.2	1904.9	1879.0	1853.0	1831.3	1815.6
15°	2008.0	2004.4	2002.6	1999.0	1996.0	1983.9	1958.0	1926.0	1891.0	1856.0	1830.1
17.5°	2048.4	2046.0	2042.4	2041.2	2037.0	2024.9	2006.8	1974.9	1931.4	1882.6	1843.4
20°	2063.5	2059.3	2056.9	2054.5	2052.1	2043.6	2043.6	2023.1	1974.9	1906.1	1846.4
22.5°	2053.9	2051.5	2047.8	2046.0	2043.6	2044.8	2068.4	2065.3	2009.8	1911.5	1824.7
25°	2031.6	2028.5	2025.5	2025.5	2024.9	2037.6	2094.3	2102.1	2020.1	1885.0	1777.0
27.5°	2008.6	2004.4	2005.6	2006.2	2009.2	2036.4	2122.6	2111.8	1992.4	1821.0	1695.0
30°	1994.8	1994.8	1997.8	2002.6	2008.6	2056.3	2145.0	2090.1	1920.6	1724.5	1586.4
32.5°	2000.8	2006.8	2013.5	2025.5	2034.6	2100.3	2152.8	2034.0	1816.2	1605.1	1473.0
35°	2054.5	2061.7	2074.4	2093.1	2103.9	2163.7	2152.8	1951.9	1695.0	1502.6	1356.0
37.5°	2171.5	2178.7	2193.8	2208.3	2219.2	2243.3	2143.8	1847.6	1593.6	1396.4	1251.0
40°	2359.7	2370.0	2380.8	2378.4	2371.2	2347.6	2125.7	1750.5	1500.1	1303.5	1147.9
42.5°	2624.5	2614.8	2613.6	2590.1	2566.0	2465.3	2112.4	1687.1	1419.9	1205.8	1045.3
45°	2930.3	2891.1	2850.7	2819.3	2782.5	2594.3	2108.8	1635.9	1331.3	1097.2	933.7
47.5°	3237.9	3175.2	3096.8	3047.9	2988.2	2731.9	2119.6	1567.1	1217.2	979.0	829.4
50°	3539.5	3437.0	3339.9	3281.4	3213.8	2889.9	2137.1	1451.3	1080.9	871.6	734.1
52.5°	3818.8	3686.7	3587.2	3518.4	3435.8	3073.9	2121.4	1299.3	962.7	768.5	643.6
55°	4084.2	3938.3	3835.1	3762.7	3665.6	3258.5	2008.0	1161.1	849.9	667.7	541.7
57.5°	4316.5	4176.5	4069.2	3970.8	3888.8	3418.9	1784.3	1047.1	741.3	552.5	431.3
60°	4587.9	4430.5	4303.2	4198.2	4101.7	3501.5	1533.3	945.8	625.5	427.7	311.9
62.5°	4954.0	4773.1	4625.9	4505.9	4379.8	3519.6	1362.0	844.5	496.4	309.4	226.8
65°	5496.9	5273.7	5089.8	4924.5	4753.8	3444.8	1277.6	734.1	369.2	229.8	190.0
67.5°	5928.2	5696.6	5483.6	5271.3	5053.0	3306.1	1258.9	632.1	283.5	195.4	170.7
69°	5875.7	5655.0	5459.5	5229.7	4987.8	3131.8	1240.2	592.9	258.8	181.6	161.7
70°	5673.7	5464.3	5265.9	5078.9	4782.7	2937.6	1190.7	571.2	249.1	174.9	155.0
72.5°	4794.2	4551.7	4359.3	4126.5	3814.6	2183.0	903.0	462.0	228.6	159.8	139.9
75°	3496.7	3295.9	3104.0	2846.5	2543.1	1263.1	562.2	264.2	167.7	144.8	126.7
77.5°	2041.8	1996.6	1811.4	1641.9	1341.5	643.0	322.7	158.0	130.3	131.5	111.6
80°	768.5	818.5	837.2	778.7	719.6	444.0	234.6	128.5	113.4	129.7	94.7
82.5°	560.4	650.2	661.1	633.4	589.3	413.8	187.6	103.1	92.3	139.3	81.4
85°	467.5	517.5	525.4	496.4	482.0	350.5	130.9	72.4	67.6	100.1	60.9
87.5°	236.5	249.1	255.8	231.6	232.8	163.5	52.5	30.8	36.8	42.8	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



REPORT NUMBER: P158004

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

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1784.9	1784.9
2.5°	1760.1	1763.7
5°	1762.5	1762.5
7.5°	1776.4	1776.4
10°	1791.5	1792.1
12.5°	1805.4	1804.8
15°	1816.2	1814.4
17.5°	1822.9	1821.0
20°	1816.2	1813.2
22.5°	1782.4	1774.0
25°	1720.9	1710.1
27.5°	1639.5	1632.2
30°	1533.3	1522.5
32.5°	1409.1	1403.6
35°	1290.2	1283.6
37.5°	1181.7	1179.8
40°	1090.0	1080.3
42.5°	982.6	978.4
45°	873.4	871.0
47.5°	770.9	768.5
50°	676.2	671.4
52.5°	583.3	575.4
55°	480.1	474.7
57.5°	368.6	363.7
60°	259.4	253.9
62.5°	184.6	178.5
65°	153.8	149.0
67.5°	139.3	133.9
69°	132.7	127.9
70°	128.5	124.9
72.5°	119.4	117.0
75°	109.2	107.4
77.5°	95.9	92.9
80°	80.2	77.2
82.5°	67.6	64.5
85°	45.2	41.0
87.5°	20.5	18.1
90°	0.0	0.0

(END OF REPORT)