

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: P157992

Luminaire Tested: **VST-E03-LED-E-U-RW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157992
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-E03-LED-E-U-RW-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (63) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9590.2 lumens
Efficiency: N/A
Efficacy: 127.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 75.2
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

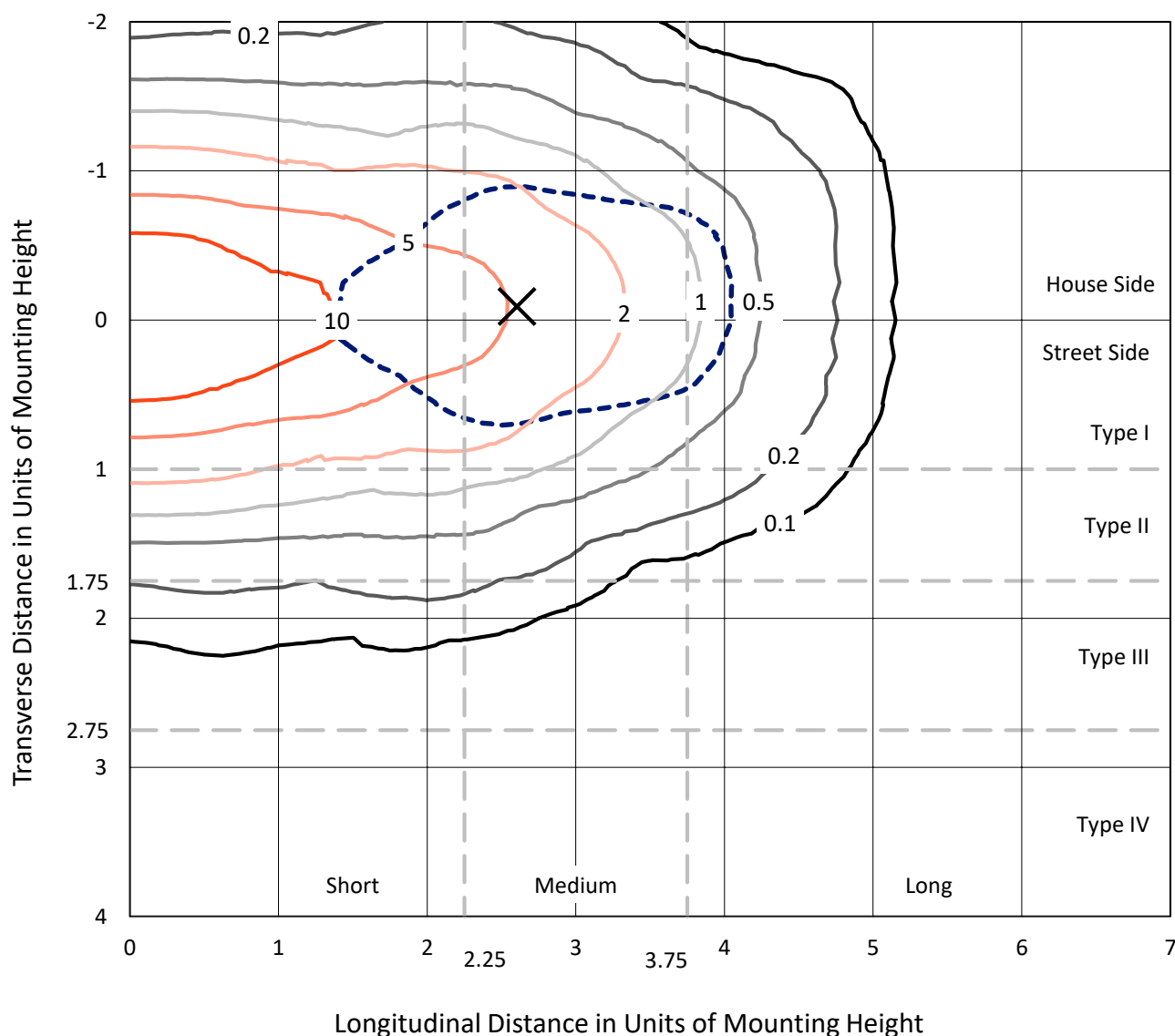


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

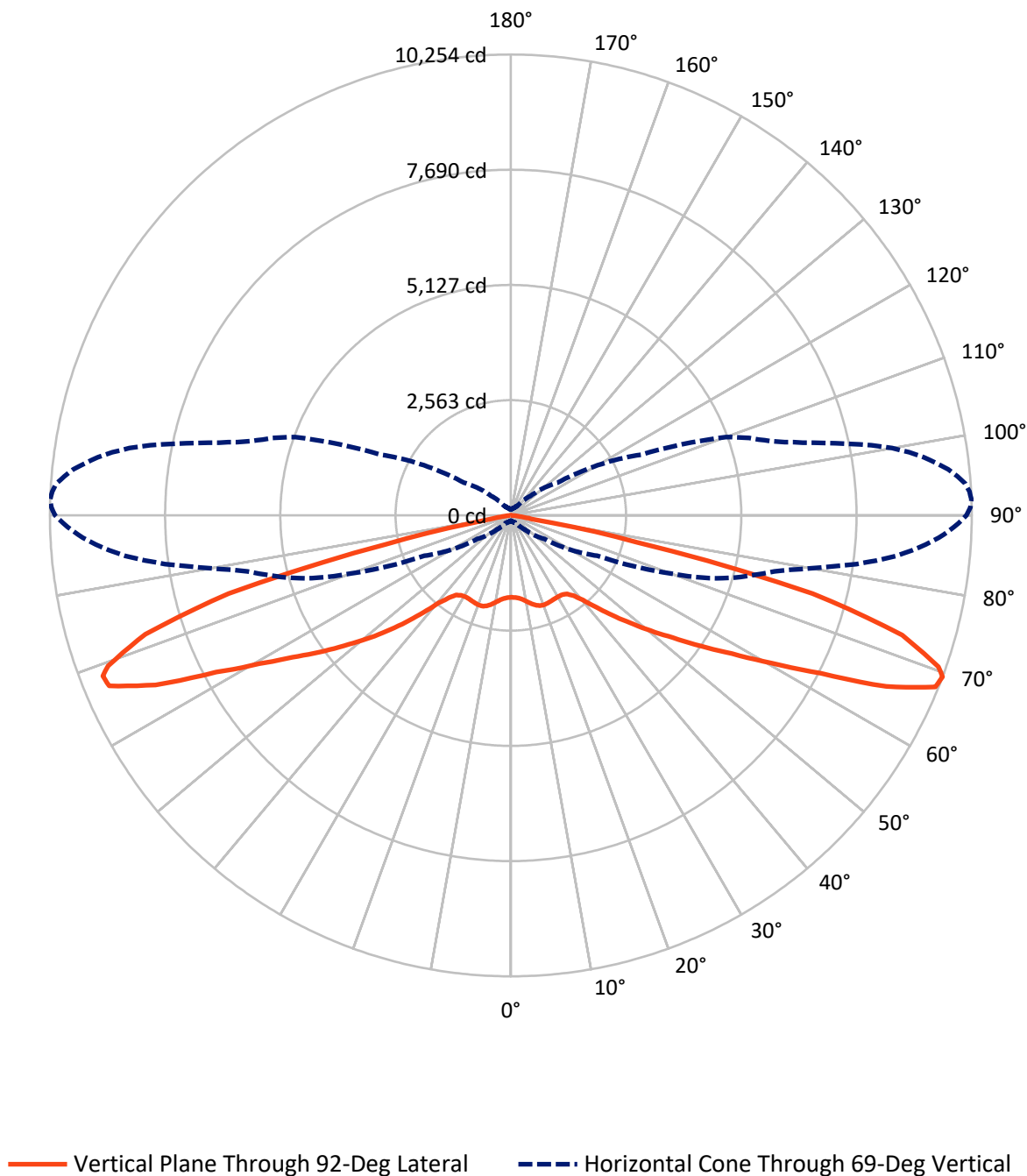


Based on 10 foot mounting height. Maximum calculated value = 18.7 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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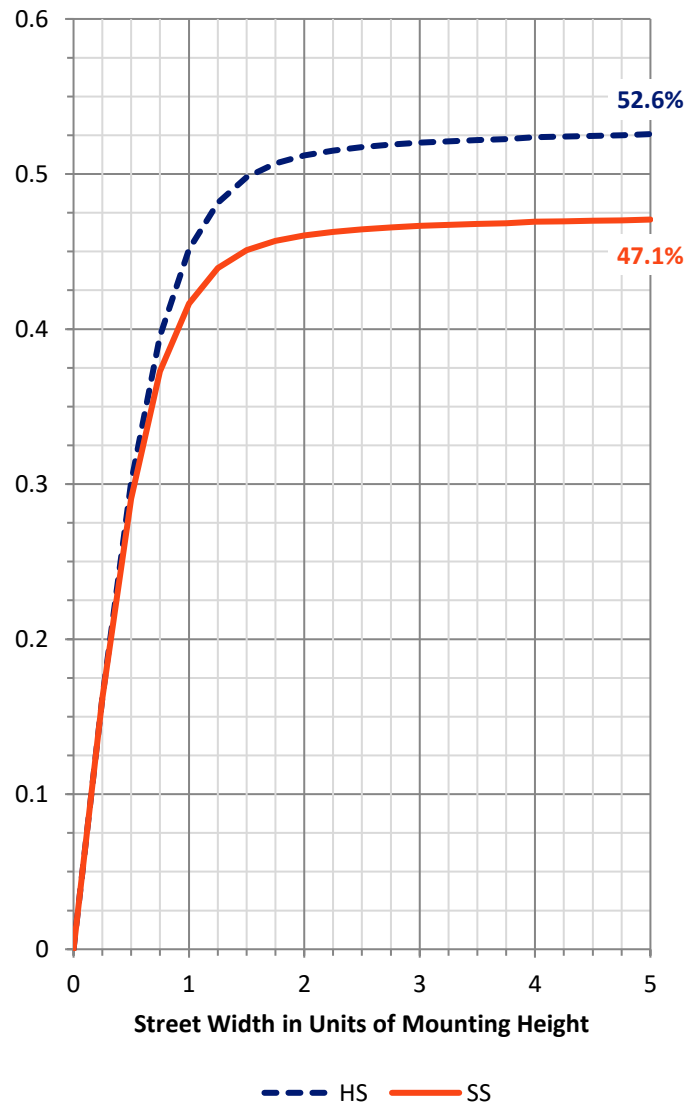
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5086.2	0.0	5086.2
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	4504.0	0.0	4504.0
	% Fixture	47.0	0.0	47.0
Total	Lumens	9590.2	0.0	9590.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	178.3	1.9
10°-20°	563.1	5.9
20°-30°	913.6	9.5
30°-40°	1138.6	11.9
40°-50°	1417.7	14.8
50°-60°	1748.4	18.2
60°-70°	2171.4	22.6
70°-80°	1334.2	13.9
80°-90°	125.0	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°	9590.2	100.0
0°-180°	9590.2	100.0

Coefficient of Utilization



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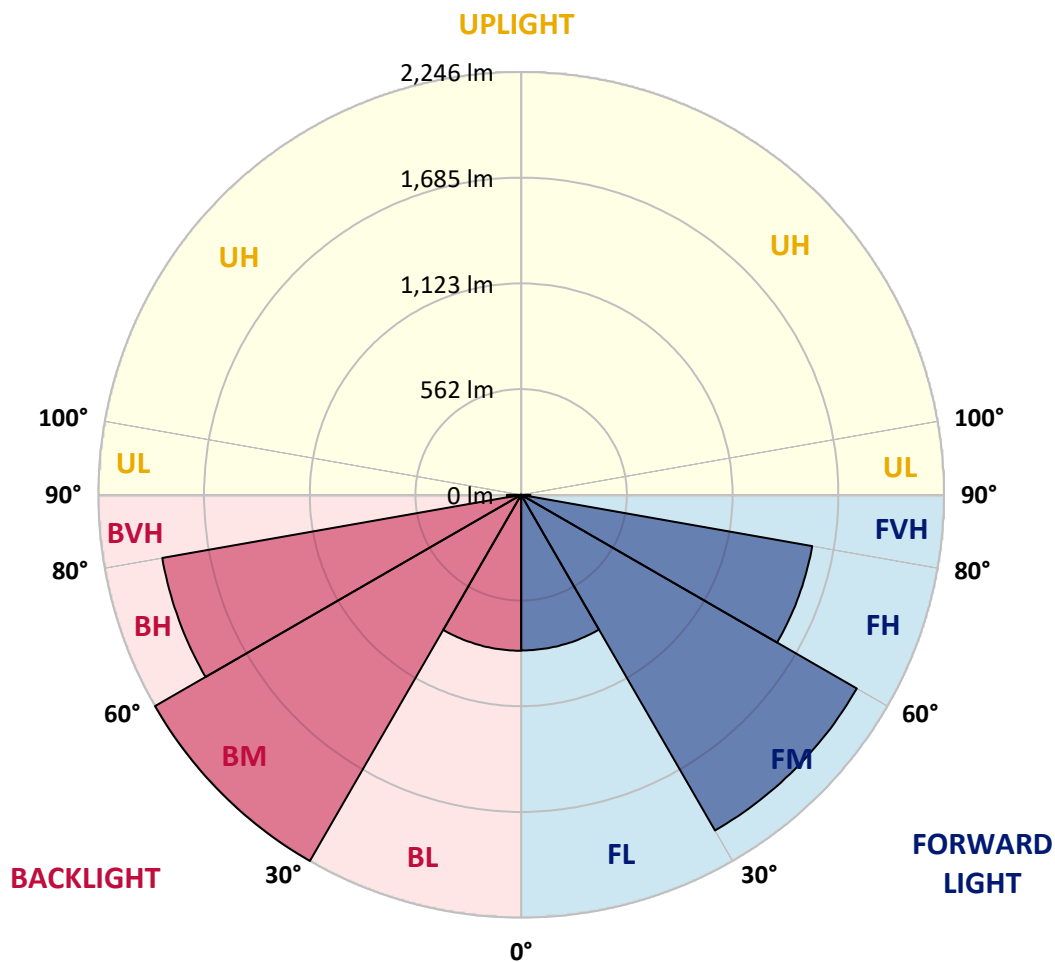
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	826.6	8.6			
FM	(30°-60°)	2058.7	21.5			
FH	(60°-80°)	1569.8	16.4			G1/1800
FVH	(80°-90°)	49.0	0.5			G1/100
BL	(0°-30°)	828.4	8.6	B2/1000		
BM	(30°-60°)	2246.0	23.4	B2/2500		
BH	(60°-80°)	1935.7	20.2	B3/2500		G3/2500
BVH	(80°-90°)	76.1	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°	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7
2.5°	1850.7	1845.8	1850.0	1850.7	1850.0	1850.0	1844.5	1843.3	1835.9	1837.7	1837.1
5°	1875.9	1874.1	1877.2	1878.4	1879.6	1877.2	1872.8	1871.0	1866.1	1864.2	1863.6
7.5°	1899.3	1896.2	1901.2	1905.5	1908.5	1909.2	1909.8	1906.7	1906.7	1904.2	1904.2
10°	1919.0	1916.6	1924.6	1930.1	1940.0	1945.5	1951.7	1955.9	1958.4	1959.1	1958.4
12.5°	1927.6	1925.8	1938.7	1955.3	1973.8	1986.7	2002.1	2013.2	2016.3	2015.7	2018.8
15°	1912.9	1914.1	1933.8	1966.4	2005.9	2038.4	2060.0	2069.2	2071.7	2072.9	2073.5
17.5°	1872.8	1875.3	1903.6	1956.6	2025.5	2084.6	2116.7	2116.7	2111.7	2111.7	2111.1
20°	1808.8	1811.3	1848.2	1924.6	2026.1	2116.7	2162.2	2153.0	2134.5	2130.8	2127.1
22.5°	1720.1	1730.0	1770.7	1859.3	1999.7	2125.9	2190.5	2177.0	2148.1	2140.0	2134.5
25°	1619.8	1618.6	1667.2	1766.9	1935.7	2103.7	2198.5	2196.1	2165.3	2156.6	2146.8
27.5°	1505.3	1509.0	1553.9	1654.9	1837.7	2039.7	2185.0	2217.6	2192.4	2183.8	2174.5
30°	1387.7	1391.4	1433.9	1551.5	1726.3	1948.0	2157.3	2238.5	2228.7	2221.9	2215.8
32.5°	1269.5	1270.7	1321.2	1447.4	1632.1	1838.4	2115.4	2257.6	2271.2	2268.1	2265.7
35°	1158.7	1159.9	1214.7	1342.7	1539.2	1744.8	2065.0	2285.3	2329.1	2332.7	2335.2
37.5°	1051.0	1052.8	1108.8	1243.0	1447.4	1674.0	2008.9	2327.8	2410.3	2423.9	2426.3
40°	943.8	945.7	999.2	1141.4	1354.4	1611.8	1965.8	2387.5	2519.9	2538.4	2557.4
42.5°	841.6	848.4	893.9	1030.0	1251.0	1534.9	1947.4	2460.2	2649.8	2678.8	2700.3
45°	746.2	746.8	798.5	926.0	1128.5	1430.8	1935.0	2542.7	2795.1	2838.8	2868.4
47.5°	644.0	651.4	705.5	829.3	1014.0	1302.1	1895.6	2639.3	2953.3	3004.4	3064.1
50°	544.9	555.3	607.7	730.2	909.4	1169.2	1789.7	2752.6	3131.3	3197.8	3266.7
52.5°	449.5	448.8	504.2	631.7	804.1	1056.5	1618.0	2871.5	3336.9	3408.3	3482.8
55°	339.8	339.8	394.6	511.0	690.2	956.1	1433.9	2945.3	3527.8	3613.9	3695.2
57.5°	233.3	239.5	291.2	391.6	571.3	864.4	1292.9	2902.9	3673.7	3780.8	3877.4
60°	173.0	179.2	217.3	281.3	447.0	756.1	1187.0	2702.8	3761.7	3903.9	4029.5
62.5°	149.6	153.9	190.3	225.4	322.0	640.9	1093.4	2448.5	3888.5	4083.1	4257.9
65°	133.6	137.9	174.2	194.5	251.8	515.3	1041.1	2303.2	4040.0	4337.3	4591.0
67.5°	123.7	128.7	159.5	174.2	219.8	466.1	1000.4	2269.3	4038.8	4399.5	4723.4
69°	118.8	122.5	147.8	163.7	212.4	451.3	912.4	2122.2	3772.1	4159.4	4484.5
70°	115.7	119.5	141.0	157.0	209.9	424.8	831.1	1927.6	3468.7	3858.4	4188.4
72.5°	105.9	109.6	125.6	140.4	174.8	283.8	579.4	1233.8	2478.7	2756.9	3134.3
75°	93.6	97.9	110.2	122.5	132.4	164.4	334.3	640.3	1417.3	1628.4	1964.6
77.5°	76.3	80.6	93.6	113.3	112.1	125.0	217.3	393.4	663.7	823.1	947.5
80°	62.8	65.9	77.0	114.5	91.7	104.6	176.1	322.6	467.3	516.5	546.1
82.5°	41.9	46.2	59.7	89.9	70.2	74.5	131.8	301.7	395.3	433.4	469.1
85°	19.7	21.5	36.3	48.0	42.5	40.0	75.1	213.0	294.3	312.1	325.7
87.5°	0.0	0.0	1.9	3.7	5.5	5.5	13.6	44.9	82.5	99.7	98.5
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°	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7
2.5°	1834.7	1835.3	1834.7	1834.7	1834.1	1832.8	1832.8	1831.6	1832.2	1831.6	1832.8
5°	1863.0	1863.0	1861.1	1859.9	1861.7	1859.9	1860.5	1857.5	1857.5	1855.6	1853.2
7.5°	1903.6	1903.6	1904.2	1900.6	1903.0	1903.6	1901.8	1900.6	1899.3	1896.2	1896.8
10°	1957.8	1957.8	1959.7	1954.7	1957.2	1958.4	1959.1	1959.1	1957.8	1952.3	1952.9
12.5°	2018.2	2016.9	2017.5	2015.0	2017.5	2018.8	2020.0	2018.8	2018.8	2017.5	2016.9
15°	2072.9	2072.3	2073.5	2071.7	2072.3	2073.5	2077.3	2076.7	2076.0	2072.3	2072.3
17.5°	2110.5	2108.6	2107.4	2106.8	2106.8	2106.2	2106.8	2106.8	2105.0	2104.3	2104.3
20°	2124.7	2119.7	2116.7	2114.8	2112.4	2111.1	2109.9	2110.5	2109.2	2107.4	2108.0
22.5°	2127.1	2120.3	2114.2	2108.6	2103.7	2100.7	2097.5	2096.3	2093.3	2091.4	2091.4
25°	2138.8	2128.3	2118.5	2109.2	2101.9	2095.1	2088.3	2083.4	2079.7	2075.4	2074.1
27.5°	2164.7	2153.6	2141.9	2130.2	2120.3	2106.8	2097.5	2087.7	2079.1	2072.3	2067.4
30°	2204.7	2193.6	2181.9	2168.3	2155.4	2141.3	2125.9	2114.2	2101.9	2088.3	2080.9
32.5°	2257.6	2250.2	2238.5	2225.6	2213.9	2199.1	2180.7	2162.8	2151.1	2135.1	2123.4
35°	2333.3	2324.8	2321.0	2315.5	2303.8	2294.6	2274.2	2257.6	2246.6	2224.4	2215.8
37.5°	2436.8	2436.2	2439.2	2437.4	2439.2	2427.5	2418.3	2417.7	2401.7	2380.1	2359.2
40°	2577.8	2585.2	2601.8	2613.5	2624.6	2625.8	2638.7	2625.2	2627.0	2624.0	2602.4
42.5°	2738.5	2763.7	2783.4	2817.9	2844.4	2869.0	2885.6	2908.4	2925.7	2941.0	2944.7
45°	2917.6	2955.2	3000.7	3031.5	3083.2	3124.5	3181.1	3224.8	3270.4	3315.4	3331.4
47.5°	3112.2	3158.9	3209.5	3266.7	3332.0	3396.6	3484.0	3551.2	3624.4	3685.4	3739.6
50°	3327.1	3375.7	3443.4	3509.3	3599.2	3673.7	3788.2	3876.2	3994.4	4075.7	4145.9
52.5°	3551.2	3612.1	3687.8	3760.5	3852.2	3947.6	4075.1	4205.0	4347.2	4470.4	4572.5
55°	3770.3	3845.5	3918.1	4003.0	4104.6	4215.4	4359.5	4530.7	4708.0	4849.0	4984.4
57.5°	3965.5	4052.3	4137.9	4224.1	4328.1	4456.8	4618.7	4803.4	5006.6	5194.4	5380.3
60°	4146.5	4250.5	4355.2	4462.9	4582.4	4741.2	4935.8	5162.9	5425.9	5682.6	5925.8
62.5°	4432.8	4569.5	4699.4	4838.5	4982.6	5169.1	5398.7	5696.8	5998.4	6319.1	6568.5
65°	4820.6	5012.8	5182.7	5363.0	5549.6	5798.9	6073.5	6430.0	6862.2	7190.9	7591.1
67.5°	5013.4	5266.4	5485.0	5685.7	5916.5	6168.4	6494.6	6916.4	7377.5	7854.0	8300.4
69°	4786.8	5047.8	5289.8	5514.5	5747.8	5992.3	6333.3	6766.1	7253.8	7769.0	8204.9
70°	4493.1	4754.2	5012.1	5268.2	5481.2	5719.5	6061.8	6508.2	6995.2	7530.8	7963.0
72.5°	3442.2	3756.2	3989.5	4229.6	4476.5	4678.4	5073.7	5449.9	5957.2	6500.8	6976.7
75°	2202.2	2491.0	2745.8	2950.3	3191.6	3433.6	3725.4	4143.4	4461.1	4907.5	5293.5
77.5°	1131.6	1217.2	1462.8	1536.1	1703.5	1835.3	1996.0	2100.7	2359.2	2414.0	2641.8
80°	536.2	483.3	455.0	429.1	436.5	433.4	420.5	403.3	424.8	415.6	411.9
82.5°	467.3	416.8	332.5	282.6	244.4	207.5	178.6	163.7	165.6	170.5	172.4
85°	327.5	307.9	240.1	182.2	142.2	110.2	88.7	85.0	87.4	94.2	91.7
87.5°	94.8	99.1	87.4	61.0	42.5	30.8	24.0	27.1	25.9	25.3	26.5
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7
2.5°	1832.8	1832.2	1830.4	1828.5	1828.5	1827.3	1828.5	1829.2	1828.5	1828.5	1827.3
5°	1853.8	1854.4	1856.2	1852.6	1851.9	1852.6	1850.0	1849.4	1847.6	1849.4	1847.0
7.5°	1893.8	1895.6	1895.6	1893.2	1892.5	1894.4	1890.7	1889.5	1887.6	1887.0	1886.4
10°	1953.5	1955.3	1952.3	1950.4	1948.6	1951.0	1948.0	1948.0	1946.1	1944.2	1943.6
12.5°	2020.0	2018.8	2017.5	2018.8	2016.9	2016.9	2015.0	2013.8	2013.2	2012.6	2011.4
15°	2071.7	2076.0	2076.0	2077.3	2076.0	2076.0	2073.5	2074.1	2072.9	2072.3	2072.9
17.5°	2105.0	2106.2	2109.2	2111.1	2111.1	2111.7	2110.5	2111.7	2110.5	2110.5	2113.0
20°	2109.2	2110.5	2113.6	2116.7	2118.5	2119.7	2119.7	2121.6	2122.8	2124.1	2127.1
22.5°	2092.0	2093.9	2097.5	2103.1	2106.2	2107.4	2109.9	2113.0	2116.0	2118.5	2122.8
25°	2074.1	2074.8	2078.5	2084.0	2087.7	2090.8	2095.1	2098.8	2103.1	2108.0	2113.0
27.5°	2064.3	2063.7	2066.8	2072.3	2075.4	2079.7	2083.4	2089.0	2093.9	2100.0	2104.3
30°	2072.9	2068.0	2068.6	2071.1	2073.5	2076.7	2080.9	2085.8	2091.4	2096.9	2101.9
32.5°	2111.1	2100.0	2092.6	2090.8	2091.4	2092.0	2094.5	2097.5	2101.9	2106.2	2108.0
35°	2193.6	2174.5	2164.7	2156.6	2149.9	2144.3	2145.6	2145.0	2145.0	2148.7	2144.3
37.5°	2350.6	2326.6	2316.1	2302.0	2294.0	2273.6	2268.1	2266.9	2258.9	2258.9	2249.6
40°	2596.9	2582.7	2574.7	2561.8	2523.0	2527.9	2500.2	2500.8	2478.1	2480.5	2464.5
42.5°	2947.2	2949.0	2939.2	2930.6	2900.4	2886.8	2861.0	2824.0	2795.1	2794.5	2762.5
45°	3352.3	3374.5	3343.1	3354.1	3327.7	3291.4	3261.2	3213.8	3168.8	3154.7	3122.0
47.5°	3775.9	3812.2	3788.2	3792.5	3779.6	3727.9	3687.2	3628.7	3570.2	3530.8	3511.1
50°	4228.4	4252.4	4251.8	4240.1	4233.9	4183.4	4118.2	4073.8	4030.7	3977.8	3960.5
52.5°	4638.4	4694.5	4732.0	4723.4	4705.5	4675.3	4617.5	4579.3	4515.9	4508.5	4515.9
55°	5077.4	5150.0	5188.2	5234.3	5235.0	5229.4	5205.4	5191.3	5132.2	5138.9	5130.3
57.5°	5492.9	5599.4	5657.9	5756.5	5790.3	5835.2	5818.6	5837.1	5801.4	5824.8	5818.0
60°	6056.3	6204.1	6301.3	6436.1	6499.0	6611.6	6633.8	6647.3	6667.0	6715.0	6688.0
62.5°	6764.9	6981.6	7183.6	7367.0	7427.3	7596.7	7624.4	7730.3	7735.8	7768.4	7708.7
65°	7924.8	8188.9	8411.2	8631.0	8757.8	8956.1	9036.1	9241.7	9178.9	9205.4	9077.9
67.5°	8684.5	8991.8	9289.7	9497.8	9708.4	9910.9	10056.8	10189.9	10188.6	10162.7	10049.5
69°	8617.4	8959.7	9253.4	9532.3	9754.0	9962.0	10137.5	10223.7	10253.9	10216.3	10135.7
70°	8385.4	8736.9	9096.4	9326.0	9567.4	9795.8	9976.8	10071.0	10091.9	10065.5	9995.9
72.5°	7312.9	7650.2	8046.7	8255.4	8547.2	8712.2	8961.6	9083.5	9105.1	9071.2	9025.6
75°	5707.2	5768.2	6172.0	6305.0	6516.8	6707.0	6862.2	6822.8	6933.0	6911.5	6894.2
77.5°	2688.6	2526.1	2787.7	2909.6	2845.6	2675.0	2923.1	2744.0	2862.8	3017.3	2978.0
80°	443.3	442.0	453.7	479.6	448.8	476.5	475.9	462.4	463.6	496.9	479.6
82.5°	170.5	174.2	176.1	181.0	181.0	181.6	184.7	188.4	185.3	191.5	190.3
85°	92.3	98.5	92.9	88.7	91.7	93.6	96.1	99.1	96.1	105.3	100.4
87.5°	24.0	25.3	22.1	22.1	21.5	19.7	19.7	20.9	22.8	27.1	29.6
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-E03-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7
2.5°	1824.8	1825.4	1826.0	1824.2	1823.0	1823.0	1822.4	1821.1	1820.5	1820.5	1820.5
5°	1845.8	1847.0	1843.9	1843.3	1842.1	1840.9	1840.9	1839.6	1840.2	1840.2	1837.1
7.5°	1887.6	1885.8	1882.1	1879.6	1882.1	1877.8	1875.9	1877.2	1875.9	1876.6	1875.3
10°	1943.6	1943.6	1939.3	1941.8	1938.7	1933.8	1935.7	1933.8	1932.5	1928.3	1930.7
12.5°	2013.2	2011.4	2008.9	2003.3	2001.5	2000.9	1995.4	1996.0	1994.2	1992.9	1991.0
15°	2074.1	2073.5	2068.0	2065.0	2064.3	2061.8	2059.4	2058.2	2055.1	2054.5	2053.3
17.5°	2114.8	2113.0	2110.5	2107.4	2107.4	2103.7	2102.5	2099.4	2098.8	2096.9	2095.1
20°	2128.3	2129.0	2126.5	2124.1	2122.8	2120.3	2118.5	2116.0	2114.8	2112.4	2110.5
22.5°	2125.3	2125.3	2122.8	2122.2	2119.7	2116.0	2113.6	2110.5	2107.4	2104.3	2100.7
25°	2115.4	2114.8	2113.0	2109.9	2106.8	2101.3	2096.3	2091.4	2087.1	2083.4	2077.9
27.5°	2106.8	2105.6	2101.9	2097.5	2091.4	2085.2	2076.0	2069.2	2063.7	2058.8	2052.6
30°	2103.7	2099.4	2093.9	2087.1	2079.7	2070.5	2060.6	2052.0	2045.8	2040.9	2038.4
32.5°	2107.4	2101.9	2093.3	2084.6	2075.4	2064.3	2054.5	2047.1	2041.6	2040.3	2040.3
35°	2141.3	2132.0	2120.3	2108.0	2096.3	2087.1	2080.3	2079.7	2076.0	2080.3	2087.1
37.5°	2240.4	2232.4	2214.5	2198.5	2190.5	2186.2	2180.0	2181.3	2172.7	2186.2	2197.3
40°	2450.9	2441.1	2420.2	2407.3	2391.2	2375.8	2388.2	2384.5	2390.6	2388.2	2399.9
42.5°	2758.2	2748.3	2715.1	2710.1	2703.4	2697.2	2697.2	2692.3	2689.9	2698.4	2688.6
45°	3131.9	3112.2	3099.8	3114.7	3094.3	3100.5	3122.0	3093.1	3099.8	3059.8	3022.9
47.5°	3519.7	3517.9	3514.8	3532.7	3535.7	3545.0	3556.7	3527.2	3473.6	3443.4	3368.3
50°	3966.1	3985.2	3992.6	4009.8	4017.2	4024.0	4005.5	3961.8	3871.3	3791.3	3702.6
52.5°	4508.5	4475.3	4520.8	4537.4	4530.1	4502.9	4436.5	4382.9	4257.9	4142.8	4005.5
55°	5140.2	5148.2	5116.1	5103.2	5078.0	5002.9	4911.1	4790.5	4632.2	4482.0	4308.4
57.5°	5783.5	5780.5	5730.6	5660.4	5574.8	5484.3	5347.7	5174.6	4990.0	4788.0	4578.1
60°	6566.0	6563.0	6462.0	6341.9	6220.0	6074.2	5859.9	5651.8	5404.3	5138.9	4889.0
62.5°	7594.2	7461.8	7362.7	7183.6	6995.2	6804.3	6514.3	6237.9	5907.3	5572.4	5280.5
65°	8911.7	8693.8	8581.1	8321.3	8029.5	7731.5	7436.6	7073.3	6628.3	6223.1	5866.7
67.5°	9886.3	9686.8	9480.6	9221.4	8901.2	8568.8	8164.9	7707.5	7202.0	6747.7	6359.2
69°	9971.9	9785.3	9537.8	9278.0	8975.2	8613.7	8172.9	7660.7	7148.5	6688.6	6306.2
70°	9842.0	9643.7	9383.3	9113.0	8774.5	8433.4	7971.6	7437.8	6925.0	6463.9	6090.8
72.5°	8872.9	8679.6	8402.6	8079.4	7732.1	7440.3	7001.9	6445.4	5887.6	5461.6	5171.0
75°	6747.1	6704.6	6508.2	6319.8	6046.4	5720.8	5320.0	4945.6	4488.2	4037.5	3766.6
77.5°	2878.9	2976.7	3079.0	3093.7	3103.6	3003.2	2941.0	2846.8	2540.8	2401.7	2258.3
80°	532.0	475.3	507.3	511.0	532.0	543.0	583.6	692.0	704.3	730.8	763.4
82.5°	189.0	192.1	197.0	198.8	200.7	208.1	235.8	282.6	325.1	380.5	454.4
85°	107.1	109.0	113.3	117.0	119.5	126.8	142.2	169.9	211.8	275.2	373.1
87.5°	32.6	37.0	39.4	44.3	46.2	47.4	54.2	72.7	93.6	138.5	202.0
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-E03-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7	1821.7
2.5°	1820.5	1819.9	1818.7	1817.5	1818.1	1816.8	1813.1	1811.9	1807.6	1804.5	1802.0
5°	1837.1	1836.5	1834.1	1834.7	1834.1	1827.9	1823.6	1816.2	1811.9	1805.1	1802.6
7.5°	1871.6	1871.0	1866.7	1868.5	1867.3	1858.1	1850.7	1839.0	1832.8	1824.2	1817.5
10°	1923.4	1923.4	1918.4	1919.0	1919.0	1906.7	1893.8	1874.1	1859.9	1846.4	1834.7
12.5°	1986.1	1983.7	1983.1	1980.0	1977.5	1964.0	1944.2	1917.8	1891.3	1869.2	1853.2
15°	2049.5	2045.8	2044.0	2040.3	2037.2	2024.9	1998.4	1965.8	1930.1	1894.4	1867.9
17.5°	2090.8	2088.3	2084.6	2083.4	2079.1	2066.8	2048.3	2015.7	1971.4	1921.5	1881.5
20°	2106.2	2101.9	2099.4	2096.9	2094.5	2085.8	2085.8	2065.0	2015.7	1945.5	1884.5
22.5°	2096.3	2093.9	2090.2	2088.3	2085.8	2087.1	2111.1	2108.0	2051.4	1951.0	1862.4
25°	2073.5	2070.5	2067.4	2067.4	2066.8	2079.7	2137.6	2145.6	2061.8	1924.0	1813.7
27.5°	2050.1	2045.8	2047.1	2047.7	2050.8	2078.5	2166.5	2155.4	2033.5	1858.7	1730.0
30°	2036.0	2036.0	2039.1	2044.0	2050.1	2098.8	2189.3	2133.3	1960.3	1760.2	1619.2
32.5°	2042.2	2048.3	2055.1	2067.4	2076.7	2143.7	2197.3	2076.0	1853.8	1638.3	1503.4
35°	2096.9	2104.3	2117.3	2136.4	2147.5	2208.4	2197.3	1992.3	1730.0	1533.6	1384.0
37.5°	2216.4	2223.8	2239.1	2254.0	2265.0	2289.7	2188.1	1885.8	1626.6	1425.2	1276.9
40°	2408.5	2419.0	2430.0	2427.5	2420.2	2396.2	2169.6	1786.7	1531.1	1330.4	1171.6
42.5°	2678.8	2668.9	2667.7	2643.7	2619.1	2516.2	2156.0	1722.0	1449.3	1230.7	1066.9
45°	2990.9	2950.9	2909.6	2877.6	2840.0	2648.0	2152.4	1669.7	1358.8	1119.9	953.0
47.5°	3304.9	3240.8	3160.8	3110.9	3050.0	2788.3	2163.4	1599.5	1242.4	999.2	846.5
50°	3612.7	3508.0	3408.9	3349.2	3280.3	2949.7	2181.3	1481.3	1103.3	889.6	749.3
52.5°	3897.8	3763.0	3661.3	3591.2	3506.8	3137.4	2165.3	1326.1	982.6	784.4	656.9
55°	4168.7	4019.6	3914.4	3840.5	3741.4	3325.8	2049.5	1185.2	867.5	681.5	552.8
57.5°	4405.7	4262.9	4153.3	4052.9	3969.2	3489.6	1821.1	1068.8	756.7	563.9	440.2
60°	4682.8	4522.0	4392.1	4285.0	4186.5	3573.9	1565.0	965.3	638.5	436.5	318.3
62.5°	5056.4	4871.8	4721.5	4599.0	4470.4	3592.4	1390.1	861.9	506.7	315.8	231.5
65°	5610.5	5382.7	5195.0	5026.3	4852.0	3516.1	1304.0	749.3	376.8	234.5	193.9
67.5°	6050.8	5814.3	5597.0	5380.3	5157.4	3374.5	1284.9	645.2	289.4	199.5	174.2
69°	5997.2	5771.8	5572.4	5337.8	5090.9	3196.5	1265.8	605.2	264.1	185.3	165.0
70°	5790.9	5577.3	5374.7	5183.9	4881.6	2998.3	1215.3	583.0	254.3	178.6	158.2
72.5°	4893.3	4645.8	4449.4	4211.8	3893.5	2228.1	921.7	471.6	233.3	163.1	142.9
75°	3569.0	3364.0	3168.2	2905.3	2595.7	1289.2	573.8	269.6	171.2	147.8	129.3
77.5°	2084.0	2037.8	1848.8	1675.9	1369.3	656.3	329.4	161.3	133.0	134.2	113.9
80°	784.4	835.4	854.5	794.8	734.5	453.1	239.5	131.2	115.7	132.4	96.7
82.5°	572.0	663.7	674.8	646.4	601.5	422.3	191.5	105.3	94.2	142.2	83.1
85°	477.1	528.2	536.2	506.7	491.9	357.7	133.6	73.9	68.9	102.2	62.2
87.5°	241.3	254.3	261.1	236.4	237.7	166.9	53.6	31.4	37.6	43.7	34.5
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: P157992

CATALOG NUMBER: VST-E03-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1821.7	1821.7
2.5°	1796.5	1800.2
5°	1799.0	1799.0
7.5°	1813.1	1813.1
10°	1828.5	1829.2
12.5°	1842.7	1842.1
15°	1853.8	1851.9
17.5°	1860.5	1858.7
20°	1853.8	1850.7
22.5°	1819.3	1810.7
25°	1756.5	1745.4
27.5°	1673.4	1666.0
30°	1565.0	1553.9
32.5°	1438.2	1432.6
35°	1316.9	1310.2
37.5°	1206.1	1204.3
40°	1112.5	1102.7
42.5°	1002.9	998.6
45°	891.5	889.0
47.5°	786.8	784.4
50°	690.2	685.3
52.5°	595.3	587.3
55°	490.1	484.5
57.5°	376.2	371.2
60°	264.7	259.2
62.5°	188.4	182.2
65°	157.0	152.0
67.5°	142.2	136.7
69°	135.4	130.5
70°	131.2	127.4
72.5°	121.9	119.5
75°	111.4	109.6
77.5°	97.9	94.8
80°	81.9	78.8
82.5°	68.9	65.9
85°	46.2	41.9
87.5°	20.9	18.5
90°	0.0	0.0

(END OF REPORT)