

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: P157989

Luminaire Tested: **VST-E03-LED-E-U-RW-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P157989  
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-7030  
Description: VENTUS LED SITE/ROADWAY LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 8536.4 lumens  
Efficiency: N/A  
Efficacy: 113.5 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

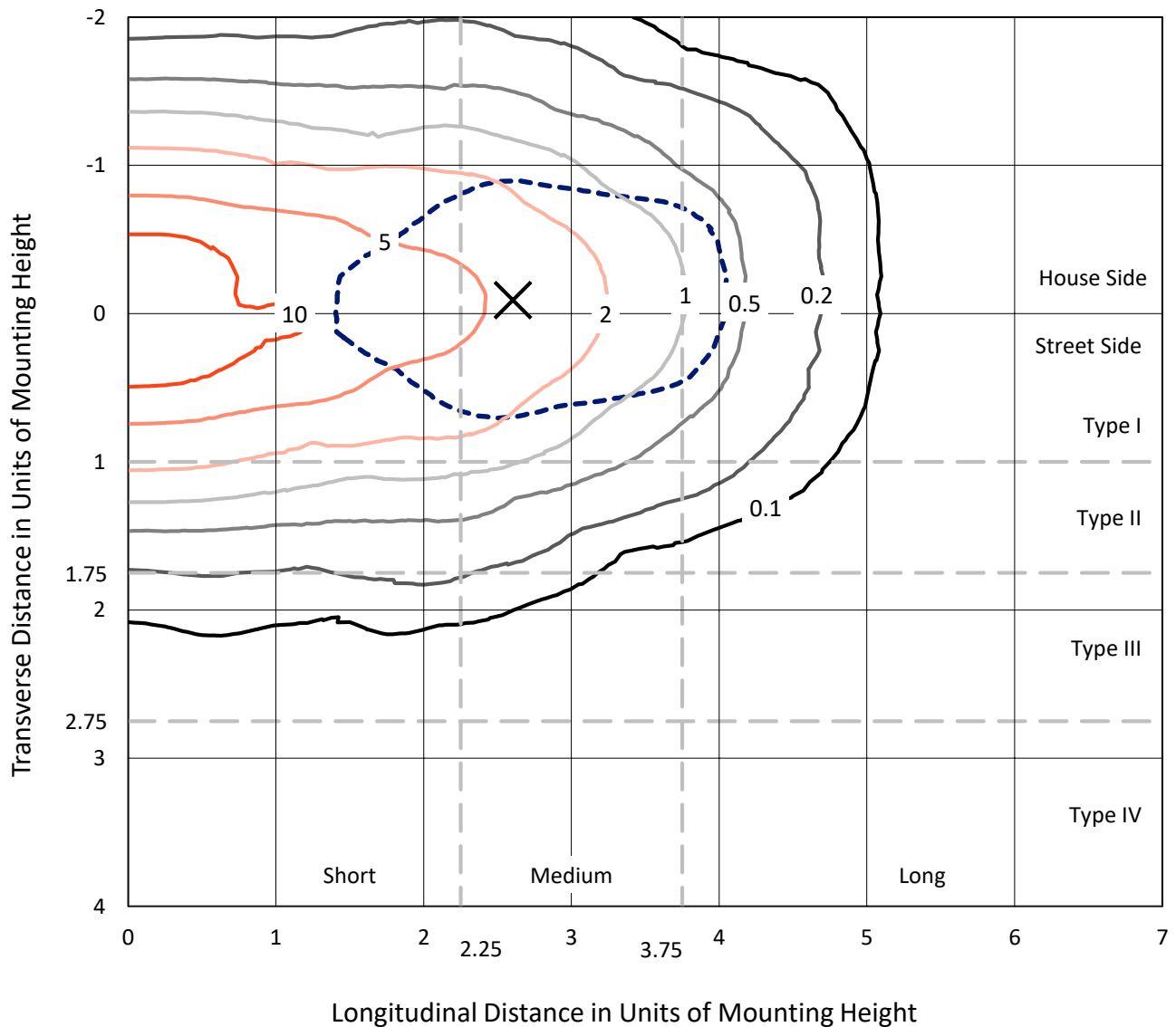
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

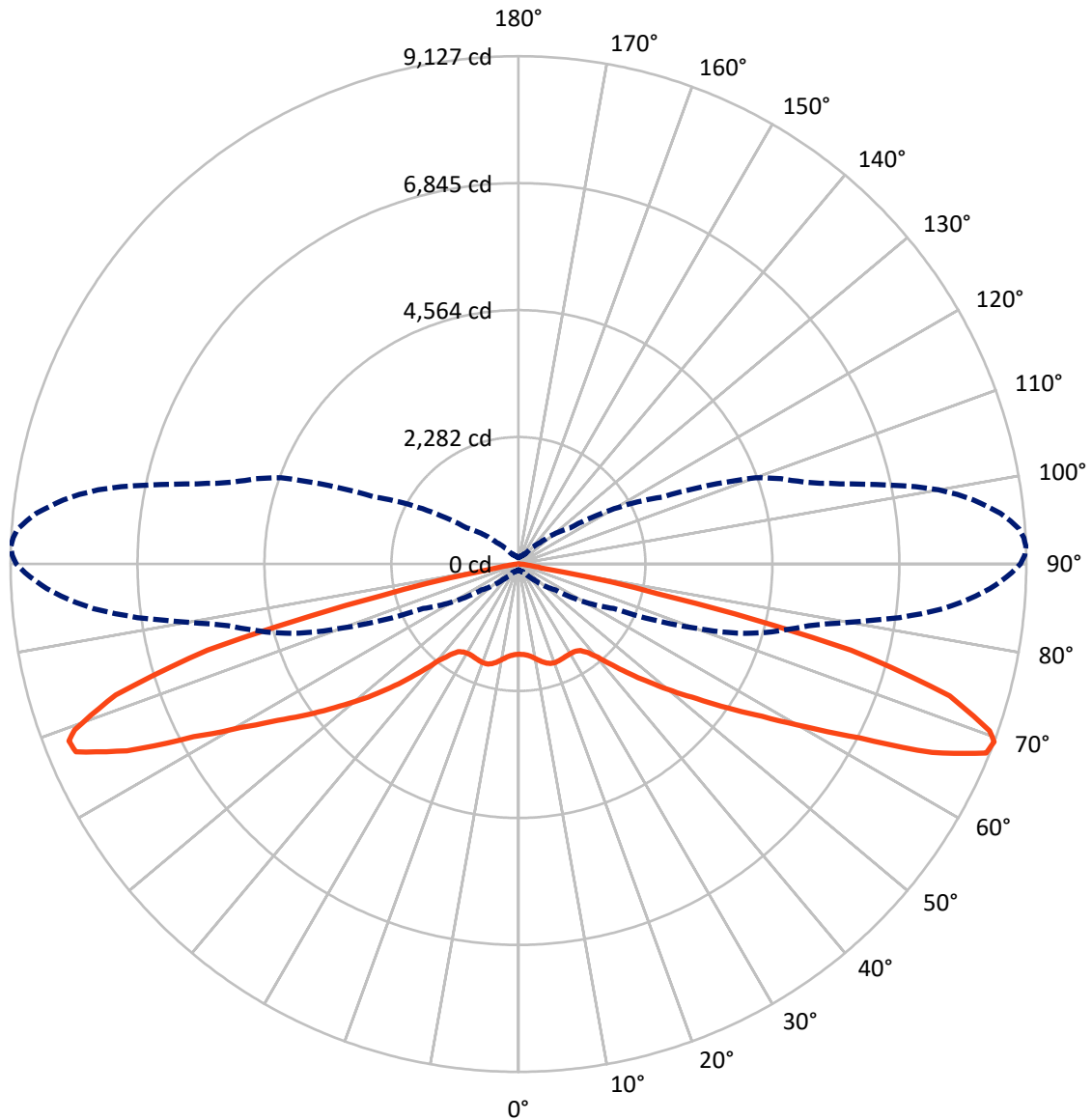
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 16.7 fc  
 Type I - Medium - Full Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral      - - - Horizontal Cone Through 69-Deg Vertical

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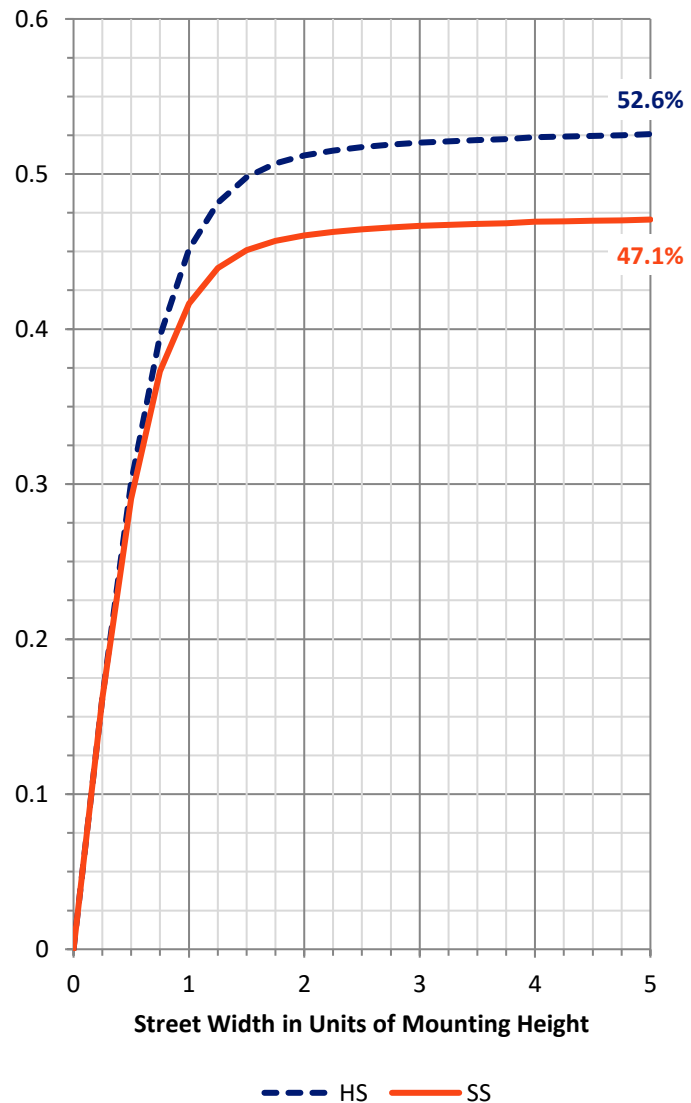
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	4527.3	0.0	4527.3
	% Fixture	53.0	0.0	53.0
<b>Street Side</b>	Lumens	4009.1	0.0	4009.1
	% Fixture	47.0	0.0	47.0
<b>Total</b>	Lumens	8536.4	0.0	8536.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	158.7	1.9
10°-20°	501.2	5.9
20°-30°	813.2	9.5
30°-40°	1013.5	11.9
40°-50°	1261.9	14.8
50°-60°	1556.2	18.2
60°-70°	1932.8	22.6
70°-80°	1187.6	13.9
80°-90°	111.3	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°	8536.4	100.0
0°-180°	8536.4	100.0



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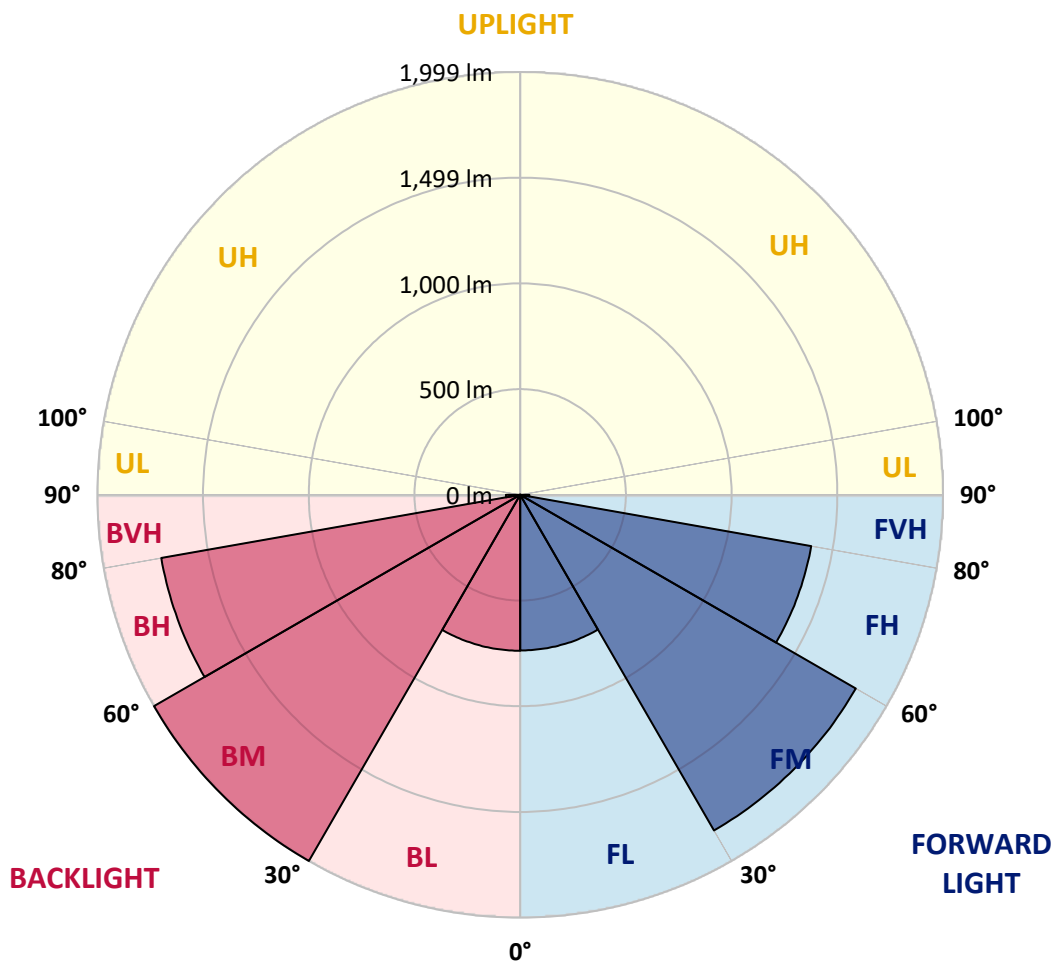
CATALOG NUMBER: VST-E03-LED-E-U-RW-7030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	735.8	8.6			
FM	(30°-60°)	1832.4	21.5			
FH	(60°-80°)	1397.3	16.4			G1/1800
FVH	(80°-90°)	43.6	0.5			G1/100
BL	(0°-30°)	737.3	8.6	B2/1000		
BM	(30°-60°)	1999.2	23.4	B2/2500		
BH	(60°-80°)	1723.0	20.2	B3/2500		G3/2500
BVH	(80°-90°)	67.7	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°	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6
2.5°	1647.3	1642.9	1646.8	1647.3	1646.8	1646.8	1641.8	1640.8	1634.2	1635.8	1635.2
5°	1669.8	1668.1	1670.9	1672.0	1673.1	1670.9	1667.0	1665.4	1661.0	1659.4	1658.8
7.5°	1690.6	1687.9	1692.2	1696.1	1698.8	1699.4	1699.9	1697.2	1697.2	1695.0	1695.0
10°	1708.1	1706.0	1713.1	1718.0	1726.8	1731.7	1737.2	1741.0	1743.2	1743.8	1743.2
12.5°	1715.8	1714.2	1725.7	1740.5	1756.9	1768.4	1782.1	1792.0	1794.7	1794.2	1796.9
15°	1702.7	1703.8	1721.3	1750.3	1785.4	1814.5	1833.7	1841.9	1844.0	1845.2	1845.7
17.5°	1667.0	1669.3	1694.5	1741.6	1802.9	1855.6	1884.1	1884.1	1879.7	1879.7	1879.1
20°	1610.0	1612.3	1645.1	1713.1	1803.5	1884.1	1924.6	1916.4	1900.0	1896.7	1893.4
22.5°	1531.1	1539.9	1576.1	1655.0	1780.0	1892.3	1949.8	1937.8	1912.0	1904.9	1900.0
25°	1441.8	1440.7	1484.0	1572.8	1723.0	1872.5	1957.0	1954.7	1927.4	1919.7	1910.9
27.5°	1339.9	1343.2	1383.2	1473.1	1635.8	1815.5	1944.9	1973.9	1951.4	1943.8	1935.6
30°	1235.2	1238.5	1276.3	1381.0	1536.6	1733.9	1920.2	1992.5	1983.8	1977.8	1972.3
32.5°	1130.0	1131.1	1176.0	1288.4	1452.8	1636.4	1883.0	2009.6	2021.6	2018.9	2016.7
35°	1031.3	1032.5	1081.2	1195.2	1370.0	1553.0	1838.0	2034.2	2073.1	2076.4	2078.6
37.5°	935.5	937.1	986.9	1106.5	1288.4	1490.0	1788.2	2072.0	2145.5	2157.5	2159.7
40°	840.1	841.7	889.4	1016.0	1205.6	1434.7	1749.8	2125.2	2243.0	2259.4	2276.5
42.5°	749.1	755.2	795.7	916.8	1113.5	1366.2	1733.3	2189.8	2358.7	2384.4	2403.6
45°	664.2	664.7	710.8	824.2	1004.5	1273.6	1722.4	2263.3	2488.0	2526.9	2553.2
47.5°	573.2	579.8	628.0	738.2	902.6	1159.0	1687.3	2349.3	2628.8	2674.3	2727.4
50°	485.0	494.3	540.9	649.9	809.4	1040.7	1593.1	2450.2	2787.2	2846.3	2907.7
52.5°	400.0	399.5	448.8	562.3	715.7	940.4	1440.2	2555.9	2970.2	3033.8	3100.1
55°	302.5	302.5	351.3	454.9	614.3	851.0	1276.3	2621.7	3140.1	3216.8	3289.1
57.5°	207.7	213.2	259.2	348.5	508.6	769.4	1150.8	2583.8	3270.0	3365.3	3451.4
60°	154.0	159.5	193.4	250.4	397.9	673.0	1056.5	2405.8	3348.4	3475.0	3586.7
62.5°	133.1	137.0	169.3	200.6	286.6	570.5	973.3	2179.4	3461.2	3634.4	3790.0
65°	118.9	122.8	155.1	173.2	224.2	458.7	926.7	2050.1	3596.0	3860.8	4086.5
67.5°	110.2	114.5	142.0	155.1	195.7	414.8	890.5	2020.0	3595.0	3916.1	4204.3
69°	105.8	109.1	131.5	145.8	189.1	401.7	812.2	1889.0	3357.7	3702.4	3991.7
70°	103.0	106.3	125.5	139.7	186.9	378.1	739.8	1715.8	3087.5	3434.4	3728.1
72.5°	94.3	97.6	111.8	124.9	155.6	252.7	515.7	1098.2	2206.3	2454.0	2789.9
75°	83.3	87.1	98.1	109.1	117.8	146.3	297.5	569.9	1261.5	1449.5	1748.7
77.5°	68.0	71.8	83.3	100.9	99.7	111.2	193.4	350.2	590.8	732.7	843.4
80°	55.9	58.6	68.5	101.9	81.7	93.2	156.7	287.2	415.9	459.8	486.1
82.5°	37.3	41.1	53.2	80.0	62.5	66.3	117.3	268.5	351.8	385.8	417.6
85°	17.5	19.2	32.3	42.7	37.8	35.6	66.8	189.6	262.0	277.9	289.9
87.5°	0.0	0.0	1.6	3.3	4.9	4.9	12.1	40.0	73.4	88.8	87.7
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):**

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6
2.5°	1633.1	1633.6	1633.1	1633.1	1632.5	1631.4	1631.4	1630.3	1630.9	1630.3	1631.4
5°	1658.3	1658.3	1656.7	1655.5	1657.2	1655.5	1656.1	1653.4	1653.4	1651.7	1649.5
7.5°	1694.5	1694.5	1695.0	1691.7	1693.9	1694.5	1692.8	1691.7	1690.6	1687.9	1688.4
10°	1742.7	1742.7	1744.3	1739.9	1742.1	1743.2	1743.8	1743.8	1742.7	1737.7	1738.3
12.5°	1796.4	1795.3	1795.8	1793.6	1795.8	1796.9	1798.0	1796.9	1796.9	1795.8	1795.3
15°	1845.2	1844.6	1845.7	1844.0	1844.6	1845.7	1849.0	1848.4	1847.9	1844.6	1844.6
17.5°	1878.6	1876.9	1875.8	1875.3	1875.3	1874.8	1875.3	1875.3	1873.6	1873.1	1873.1
20°	1891.2	1886.8	1884.1	1882.4	1880.2	1879.1	1878.1	1878.6	1877.5	1875.8	1876.4
22.5°	1893.4	1887.4	1881.8	1876.9	1872.5	1869.8	1867.1	1866.0	1863.2	1861.6	1861.6
25°	1903.8	1894.5	1885.7	1877.5	1870.9	1864.9	1858.9	1854.5	1851.2	1847.3	1846.3
27.5°	1926.8	1916.9	1906.5	1896.1	1887.4	1875.3	1867.1	1858.3	1850.6	1844.6	1840.2
30°	1962.4	1952.6	1942.1	1930.1	1918.6	1906.0	1892.3	1881.8	1870.9	1858.9	1852.3
32.5°	2009.6	2003.0	1992.5	1981.1	1970.6	1957.5	1941.1	1925.2	1914.7	1900.5	1890.1
35°	2077.0	2069.3	2066.0	2061.1	2050.7	2042.5	2024.3	2009.6	1999.7	1979.9	1972.3
37.5°	2169.0	2168.5	2171.2	2169.6	2171.2	2160.8	2152.6	2152.0	2137.8	2118.6	2100.0
40°	2294.5	2301.1	2315.9	2326.3	2336.2	2337.2	2348.8	2336.7	2338.4	2335.6	2316.4
42.5°	2437.6	2460.0	2477.6	2508.2	2531.8	2553.7	2568.5	2588.8	2604.1	2617.9	2621.2
45°	2597.0	2630.5	2671.0	2698.4	2744.5	2781.2	2831.6	2870.5	2911.0	2951.0	2965.3
47.5°	2770.2	2811.8	2856.8	2907.7	2965.9	3023.4	3101.2	3160.9	3226.1	3280.4	3328.6
50°	2961.4	3004.7	3065.0	3123.7	3203.6	3270.0	3371.9	3450.3	3555.5	3627.8	3690.3
52.5°	3160.9	3215.2	3282.6	3347.2	3428.9	3513.8	3627.3	3742.9	3869.5	3979.1	4070.1
55°	3356.0	3422.9	3487.6	3563.2	3653.6	3752.2	3880.4	4032.8	4190.6	4316.1	4436.7
57.5°	3529.7	3607.0	3683.2	3759.9	3852.5	3967.0	4111.2	4275.6	4456.4	4623.5	4789.1
60°	3690.8	3783.5	3876.6	3972.5	4078.9	4220.2	4393.4	4595.6	4829.6	5058.1	5274.6
62.5°	3945.7	4067.3	4183.0	4306.8	4435.0	4601.1	4805.5	5070.7	5339.3	5624.8	5846.7
65°	4290.9	4461.9	4613.2	4773.7	4939.7	5161.7	5406.1	5723.4	6108.1	6400.7	6757.0
67.5°	4462.4	4687.7	4882.2	5060.9	5266.4	5490.5	5780.9	6156.4	6566.8	6991.0	7388.3
69°	4260.8	4493.2	4708.5	4908.5	5116.2	5333.8	5637.4	6022.6	6456.7	6915.4	7303.3
70°	3999.4	4231.7	4461.4	4689.3	4879.0	5091.0	5395.7	5793.0	6226.5	6703.3	7088.0
72.5°	3063.9	3343.4	3551.1	3764.8	3984.6	4164.3	4516.1	4851.0	5302.6	5786.5	6210.1
75°	1960.3	2217.2	2444.1	2626.1	2840.9	3056.3	3316.0	3688.1	3970.9	4368.2	4711.8
77.5°	1007.2	1083.4	1302.1	1367.3	1516.3	1633.6	1776.7	1869.8	2100.0	2148.7	2351.5
80°	477.3	430.2	405.0	382.0	388.6	385.8	374.3	358.9	378.1	369.9	366.6
82.5°	415.9	371.0	295.9	251.5	217.6	184.7	158.9	145.8	147.4	151.8	153.4
85°	291.5	274.0	213.7	162.2	126.6	98.1	78.9	75.6	77.8	83.8	81.7
87.5°	84.4	88.2	77.8	54.2	37.8	27.4	21.4	24.1	23.0	22.4	23.6
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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**CANDELA DISTRIBUTION (continued):**

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6
2.5°	1631.4	1630.9	1629.2	1627.6	1627.6	1626.5	1627.6	1628.2	1627.6	1627.6	1626.5
5°	1650.1	1650.6	1652.3	1649.0	1648.4	1649.0	1646.8	1646.2	1644.6	1646.2	1644.1
7.5°	1685.7	1687.3	1687.3	1685.2	1684.6	1686.2	1682.9	1681.9	1680.2	1679.6	1679.1
10°	1738.9	1740.5	1737.7	1736.1	1734.5	1736.6	1733.9	1733.9	1732.3	1730.6	1730.0
12.5°	1798.0	1796.9	1795.8	1796.9	1795.3	1795.3	1793.6	1792.6	1792.0	1791.4	1790.3
15°	1844.0	1847.9	1847.9	1849.0	1847.9	1847.9	1845.7	1846.3	1845.2	1844.6	1845.2
17.5°	1873.6	1874.8	1877.5	1879.1	1879.1	1879.7	1878.6	1879.7	1878.6	1878.6	1880.8
20°	1877.5	1878.6	1881.3	1884.1	1885.7	1886.8	1886.8	1888.4	1889.5	1890.7	1893.4
22.5°	1862.2	1863.8	1867.1	1872.0	1874.8	1875.8	1878.1	1880.8	1883.5	1885.7	1889.5
25°	1846.3	1846.8	1850.1	1855.0	1858.3	1861.0	1864.9	1868.2	1872.0	1876.4	1880.8
27.5°	1837.5	1837.0	1839.7	1844.6	1847.3	1851.2	1854.5	1859.4	1863.8	1869.2	1873.1
30°	1845.2	1840.7	1841.3	1843.5	1845.7	1848.4	1852.3	1856.6	1861.6	1866.5	1870.9
32.5°	1879.1	1869.2	1862.7	1861.0	1861.6	1862.2	1864.3	1867.1	1870.9	1874.8	1876.4
35°	1952.6	1935.6	1926.8	1919.7	1913.6	1908.7	1909.8	1909.3	1909.3	1912.6	1908.7
37.5°	2092.3	2071.0	2061.6	2049.0	2041.9	2023.8	2018.9	2017.8	2010.7	2010.7	2002.4
40°	2311.5	2298.9	2291.8	2280.3	2245.7	2250.1	2225.5	2226.0	2205.7	2207.9	2193.7
42.5°	2623.3	2624.9	2616.2	2608.5	2581.7	2569.6	2546.6	2513.7	2488.0	2487.4	2458.9
45°	2983.9	3003.7	2975.7	2985.5	2962.0	2929.7	2902.8	2860.6	2820.6	2808.0	2779.0
47.5°	3361.0	3393.3	3371.9	3375.7	3364.3	3318.2	3282.1	3230.0	3177.9	3142.9	3125.3
50°	3763.7	3785.1	3784.6	3774.1	3768.7	3723.7	3665.6	3626.2	3587.8	3540.7	3525.4
52.5°	4128.7	4178.6	4212.0	4204.3	4188.4	4161.6	4110.1	4076.1	4019.6	4013.1	4019.6
55°	4519.4	4584.1	4618.1	4659.2	4659.7	4654.8	4633.4	4620.8	4568.2	4574.2	4566.5
57.5°	4889.3	4984.1	5036.2	5123.9	5154.1	5194.0	5179.3	5195.7	5163.9	5184.7	5178.7
60°	5390.8	5522.3	5608.9	5728.9	5784.8	5885.1	5904.8	5916.8	5934.4	5977.1	5953.0
62.5°	6021.5	6214.4	6394.2	6557.5	6611.2	6761.9	6786.5	6880.8	6885.7	6914.8	6861.7
65°	7054.0	7289.1	7486.9	7682.6	7795.4	7971.9	8043.1	8226.2	8170.3	8193.8	8080.4
67.5°	7730.2	8003.7	8268.9	8454.2	8641.6	8821.9	8951.8	9070.1	9069.0	9046.0	8945.2
69°	7670.5	7975.2	8236.6	8484.8	8682.1	8867.3	9023.5	9100.3	9127.1	9093.7	9021.9
70°	7463.9	7776.8	8096.9	8301.2	8516.1	8719.4	8880.5	8964.4	8983.0	8959.4	8897.5
72.5°	6509.3	6809.6	7162.5	7348.3	7608.0	7754.9	7976.8	8085.4	8104.5	8074.4	8033.8
75°	5080.1	5134.3	5493.8	5612.2	5800.7	5970.0	6108.1	6073.0	6171.1	6152.0	6136.6
77.5°	2393.2	2248.5	2481.4	2589.9	2532.9	2381.1	2602.0	2442.5	2548.3	2685.8	2650.7
80°	394.6	393.5	403.9	426.9	399.5	424.1	423.6	411.5	412.7	442.3	426.9
82.5°	151.8	155.1	156.7	161.1	161.1	161.6	164.4	167.7	164.9	170.5	169.3
85°	82.2	87.7	82.7	78.9	81.7	83.3	85.5	88.2	85.5	93.7	89.3
87.5°	21.4	22.4	19.7	19.7	19.2	17.5	17.5	18.7	20.3	24.1	26.3
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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**CANDELA DISTRIBUTION (continued):**

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6
2.5°	1624.3	1624.9	1625.4	1623.8	1622.6	1622.6	1622.1	1621.0	1620.5	1620.5	1620.5
5°	1642.9	1644.1	1641.3	1640.8	1639.6	1638.5	1638.5	1637.5	1638.0	1638.0	1635.2
7.5°	1680.2	1678.6	1675.3	1673.1	1675.3	1671.4	1669.8	1670.9	1669.8	1670.3	1669.3
10°	1730.0	1730.0	1726.3	1728.4	1725.7	1721.3	1723.0	1721.3	1720.2	1716.4	1718.6
12.5°	1792.0	1790.3	1788.2	1783.2	1781.6	1781.0	1776.1	1776.7	1775.0	1773.9	1772.3
15°	1846.3	1845.7	1840.7	1838.0	1837.5	1835.3	1833.1	1832.0	1829.3	1828.7	1827.6
17.5°	1882.4	1880.8	1878.6	1875.8	1875.8	1872.5	1871.5	1868.7	1868.2	1866.5	1864.9
20°	1894.5	1895.0	1892.8	1890.7	1889.5	1887.4	1885.7	1883.5	1882.4	1880.2	1878.6
22.5°	1891.7	1891.7	1889.5	1889.0	1886.8	1883.5	1881.3	1878.6	1875.8	1873.1	1869.8
25°	1883.0	1882.4	1880.8	1878.1	1875.3	1870.4	1866.0	1861.6	1857.8	1854.5	1849.6
27.5°	1875.3	1874.2	1870.9	1867.1	1861.6	1856.1	1847.9	1841.9	1837.0	1832.5	1827.1
30°	1872.5	1868.7	1863.8	1857.8	1851.2	1843.0	1834.2	1826.5	1821.1	1816.7	1814.5
32.5°	1875.8	1870.9	1863.2	1855.6	1847.3	1837.5	1828.7	1822.1	1817.2	1816.1	1816.1
35°	1906.0	1897.7	1887.4	1876.4	1866.0	1857.8	1851.7	1851.2	1847.9	1851.7	1857.8
37.5°	1994.2	1987.1	1971.2	1957.0	1949.8	1946.0	1940.5	1941.6	1933.9	1946.0	1955.8
40°	2181.6	2172.8	2154.2	2142.7	2128.5	2114.8	2125.7	2122.4	2127.9	2125.7	2136.1
42.5°	2455.1	2446.3	2416.7	2412.4	2406.3	2400.8	2400.8	2396.5	2394.2	2401.9	2393.2
45°	2787.7	2770.2	2759.2	2772.4	2754.3	2759.8	2779.0	2753.2	2759.2	2723.6	2690.8
47.5°	3133.0	3131.3	3128.6	3144.5	3147.2	3155.5	3165.8	3139.6	3091.9	3065.0	2998.1
50°	3530.3	3547.3	3553.9	3569.2	3575.8	3581.8	3565.4	3526.4	3445.9	3374.6	3295.7
52.5°	4013.1	3983.5	4024.0	4038.8	4032.2	4008.1	3949.0	3901.3	3790.0	3687.5	3565.4
55°	4575.4	4582.4	4553.9	4542.5	4520.0	4453.1	4371.5	4264.1	4123.2	3989.5	3835.0
57.5°	5148.0	5145.2	5100.9	5038.4	4962.2	4881.7	4760.0	4606.0	4441.6	4261.9	4075.0
60°	5844.5	5841.8	5751.9	5645.0	5536.6	5406.7	5216.0	5030.8	4810.4	4574.2	4351.7
62.5°	6759.7	6641.9	6553.7	6394.2	6226.5	6056.6	5798.5	5552.5	5258.2	4960.0	4700.3
65°	7932.4	7738.4	7638.2	7406.9	7147.1	6881.9	6619.4	6296.1	5899.9	5539.3	5222.0
67.5°	8800.0	8622.4	8438.8	8208.1	7923.1	7627.2	7267.7	6860.5	6410.6	6006.2	5660.4
69°	8876.1	8710.1	8489.8	8258.5	7988.9	7667.2	7274.8	6818.9	6362.9	5953.6	5613.2
70°	8760.5	8584.0	8352.2	8111.6	7810.3	7506.7	7095.7	6620.5	6164.0	5753.6	5421.5
72.5°	7897.9	7725.8	7479.2	7191.5	6882.5	6622.7	6232.5	5737.1	5240.6	4861.4	4602.7
75°	6005.6	5967.8	5793.0	5625.3	5382.0	5092.1	4735.4	4402.1	3995.0	3593.9	3352.7
77.5°	2562.5	2649.6	2740.6	2753.8	2762.5	2673.2	2617.9	2534.0	2261.6	2137.8	2010.1
80°	473.5	423.1	451.6	454.9	473.5	483.4	519.5	616.0	626.9	650.5	679.6
82.5°	168.2	171.0	175.4	177.0	178.7	185.2	209.9	251.5	289.3	338.7	404.5
85°	95.3	97.0	100.9	104.1	106.3	112.9	126.6	151.3	188.5	245.0	332.1
87.5°	29.0	32.9	35.1	39.5	41.1	42.2	48.2	64.7	83.3	123.3	179.8
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-E03-LED-E-U-RW-7030

**CANDELA DISTRIBUTION (continued):**

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6	1621.6
2.5°	1620.5	1619.9	1618.8	1617.7	1618.3	1617.2	1613.9	1612.8	1609.0	1606.2	1604.0
5°	1635.2	1634.7	1632.5	1633.1	1632.5	1627.0	1623.2	1616.6	1612.8	1606.7	1604.6
7.5°	1666.0	1665.4	1661.6	1663.2	1662.1	1653.9	1647.3	1636.9	1631.4	1623.8	1617.7
10°	1712.0	1712.0	1707.6	1708.1	1708.1	1697.2	1685.7	1668.1	1655.5	1643.5	1633.1
12.5°	1767.9	1765.7	1765.1	1762.4	1760.2	1748.2	1730.6	1707.1	1683.5	1663.7	1649.5
15°	1824.3	1821.1	1819.4	1816.1	1813.4	1802.4	1778.8	1749.8	1718.0	1686.2	1662.7
17.5°	1861.0	1858.9	1855.6	1854.5	1850.6	1839.7	1823.2	1794.2	1754.7	1710.4	1674.7
20°	1874.8	1870.9	1868.7	1866.5	1864.3	1856.6	1856.6	1838.0	1794.2	1731.7	1677.5
22.5°	1866.0	1863.8	1860.5	1858.9	1856.6	1857.8	1879.1	1876.4	1826.0	1736.6	1657.7
25°	1845.7	1843.0	1840.2	1840.2	1839.7	1851.2	1902.7	1909.8	1835.3	1712.5	1614.4
27.5°	1824.9	1821.1	1822.1	1822.7	1825.4	1850.1	1928.5	1918.6	1810.1	1654.4	1539.9
30°	1812.2	1812.2	1815.0	1819.4	1824.9	1868.2	1948.7	1898.9	1744.9	1566.8	1441.3
32.5°	1817.8	1823.2	1829.3	1840.2	1848.4	1908.2	1955.8	1847.9	1650.1	1458.2	1338.2
35°	1866.5	1873.1	1884.6	1901.6	1911.5	1965.7	1955.8	1773.4	1539.9	1365.1	1231.9
37.5°	1972.9	1979.4	1993.1	2006.3	2016.1	2038.0	1947.6	1678.6	1447.9	1268.6	1136.6
40°	2143.8	2153.2	2163.0	2160.8	2154.2	2132.9	1931.2	1590.3	1362.9	1184.3	1042.9
42.5°	2384.4	2375.6	2374.5	2353.1	2331.2	2239.7	1919.2	1532.8	1290.0	1095.5	949.7
45°	2662.3	2626.6	2589.9	2561.4	2528.0	2357.0	1915.9	1486.2	1209.5	996.8	848.3
47.5°	2941.7	2884.7	2813.5	2769.1	2714.8	2482.0	1925.7	1423.7	1105.9	889.4	753.5
50°	3215.7	3122.6	3034.3	2981.2	2919.8	2625.5	1941.6	1318.5	982.0	791.9	666.9
52.5°	3469.4	3349.4	3259.0	3196.6	3121.4	2792.6	1927.4	1180.4	874.6	698.2	584.7
55°	3710.6	3578.0	3484.3	3418.5	3330.2	2960.3	1824.3	1054.9	772.1	606.7	492.1
57.5°	3921.5	3794.4	3696.9	3607.6	3533.0	3106.1	1621.0	951.4	673.5	502.0	391.8
60°	4168.1	4025.2	3909.5	3814.1	3726.5	3181.2	1393.0	859.3	568.3	388.6	283.3
62.5°	4500.8	4336.4	4202.7	4093.6	3979.1	3197.6	1237.4	767.2	451.0	281.1	206.0
65°	4994.0	4791.2	4624.1	4474.0	4318.9	3129.7	1160.7	666.9	335.4	208.8	172.6
67.5°	5385.8	5175.4	4982.0	4789.1	4590.7	3003.7	1143.7	574.3	257.6	177.5	155.1
69°	5338.1	5137.6	4960.0	4751.2	4531.5	2845.3	1126.7	538.7	235.1	164.9	146.9
70°	5154.6	4964.4	4784.1	4614.2	4345.2	2668.8	1081.8	518.9	226.3	158.9	140.8
72.5°	4355.6	4135.3	3960.5	3748.9	3465.6	1983.2	820.4	419.8	207.7	145.2	127.1
75°	3176.8	2994.3	2820.1	2586.1	2310.4	1147.6	510.7	240.0	152.3	131.5	115.1
77.5°	1855.0	1813.9	1645.7	1491.7	1218.8	584.2	293.2	143.6	118.4	119.5	101.4
80°	698.2	743.6	760.6	707.5	653.8	403.3	213.2	116.7	103.0	117.8	86.0
82.5°	509.1	590.8	600.6	575.4	535.4	376.0	170.5	93.7	83.8	126.6	74.0
85°	424.7	470.2	477.3	451.0	437.9	318.4	118.9	65.8	61.4	91.0	55.3
87.5°	214.8	226.3	232.4	210.4	211.6	148.5	47.7	28.0	33.4	38.9	30.7
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: P157989

CATALOG NUMBER: VST-E03-LED-E-U-RW-7030

**CANDELA DISTRIBUTION (continued):**

	175°	180°
0°	1621.6	1621.6
2.5°	1599.1	1602.4
5°	1601.3	1601.3
7.5°	1613.9	1613.9
10°	1627.6	1628.2
12.5°	1640.2	1639.6
15°	1650.1	1648.4
17.5°	1656.1	1654.4
20°	1650.1	1647.3
22.5°	1619.4	1611.7
25°	1563.5	1553.6
27.5°	1489.5	1482.9
30°	1393.0	1383.2
32.5°	1280.2	1275.2
35°	1172.2	1166.2
37.5°	1073.6	1071.9
40°	990.2	981.5
42.5°	892.7	888.9
45°	793.5	791.3
47.5°	700.4	698.2
50°	614.3	610.0
52.5°	529.9	522.8
55°	436.2	431.3
57.5°	334.9	330.5
60°	235.6	230.7
62.5°	167.7	162.2
65°	139.7	135.4
67.5°	126.6	121.7
69°	120.5	116.2
70°	116.7	113.5
72.5°	108.5	106.3
75°	99.2	97.6
77.5°	87.1	84.4
80°	72.9	70.1
82.5°	61.4	58.6
85°	41.1	37.3
87.5°	18.7	16.4
90°	0.0	0.0

(END OF REPORT)