

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: P157996

Luminaire Tested: **VST-F03-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157996
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-F03-LED-E-U-RW-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7917 lumens
Efficiency: N/A
Efficacy: 101.1 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): 78.3
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

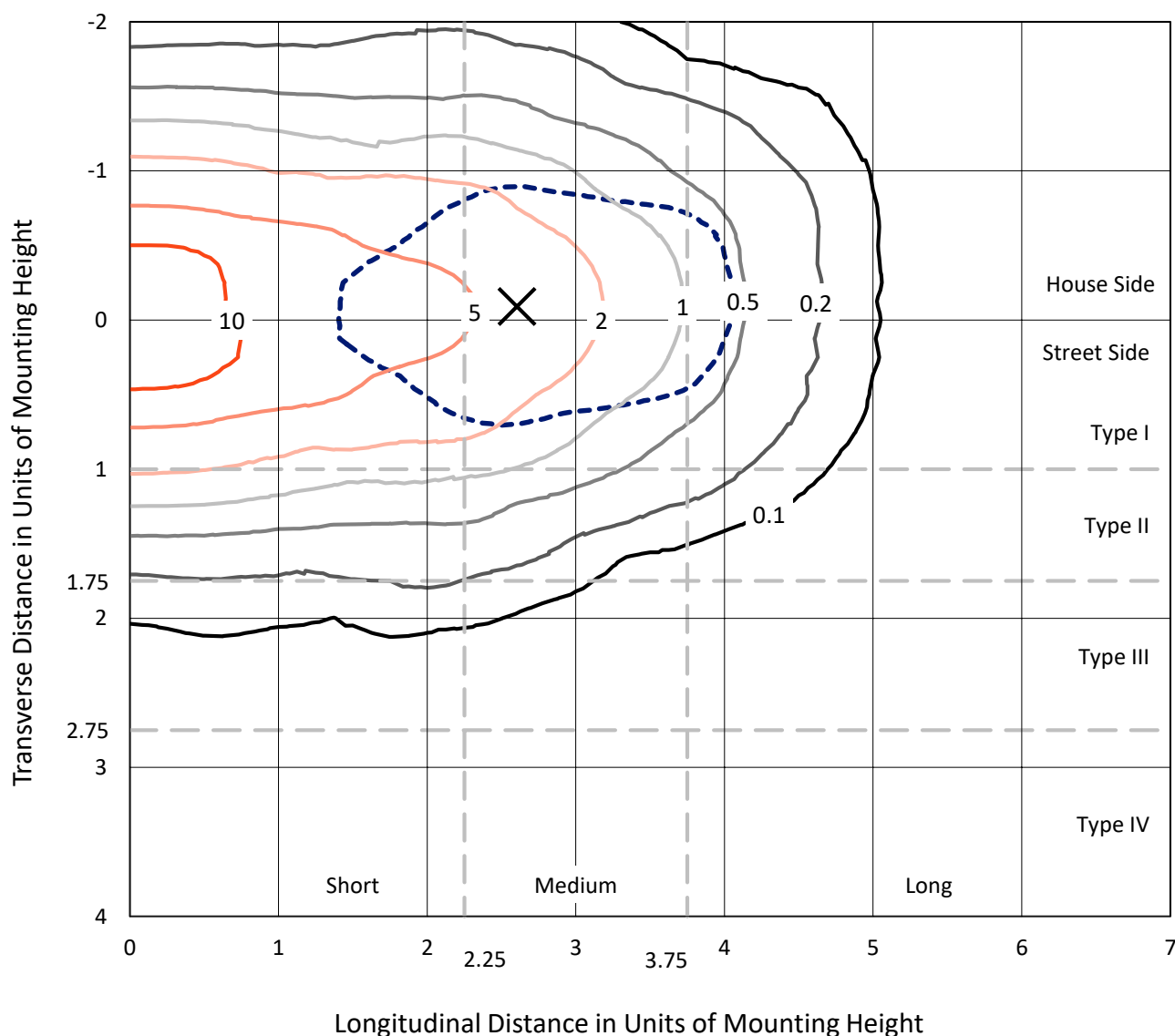


REPORT NUMBER: P157996

CATALOG NUMBER: VST-F03-LED-E-U-RW-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

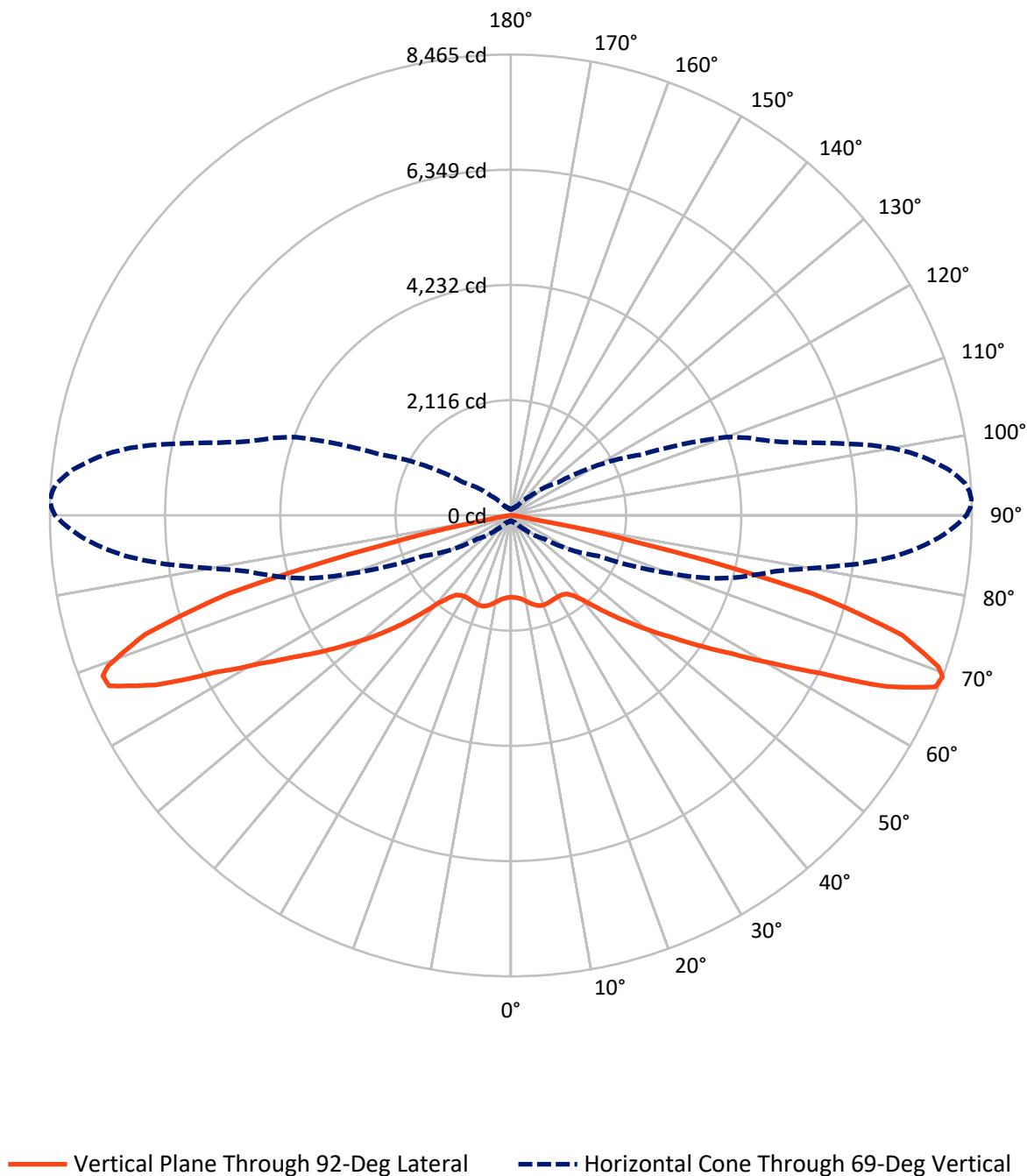


Based on 10 foot mounting height. Maximum calculated value = 15.5 fc
Type I - Medium - Full Cutoff

REPORT NUMBER: P157996

CATALOG NUMBER: VST-F03-LED-E-U-RW-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P157996

CATALOG NUMBER: VST-F03-LED-E-U-RW-7050

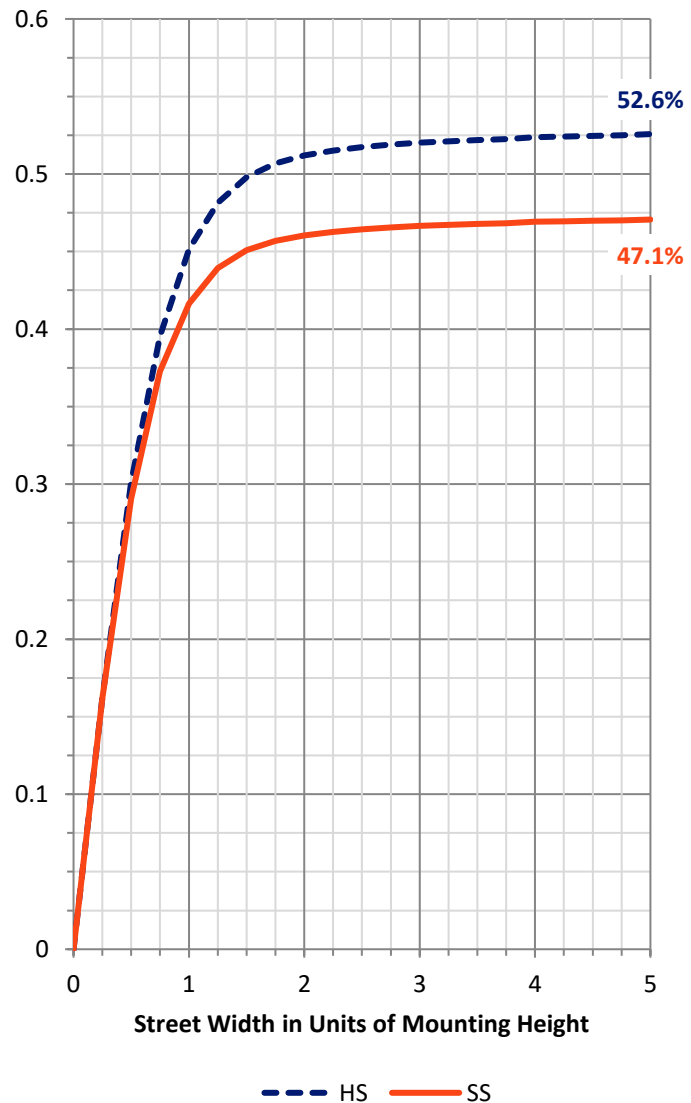
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4198.8	0.0	4198.8
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	3718.2	0.0	3718.2
	% Fixture	47.0	0.0	47.0
Total	Lumens	7917.0	0.0	7917.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	147.2	1.9
10°-20°	464.9	5.9
20°-30°	754.2	9.5
30°-40°	940.0	11.9
40°-50°	1170.3	14.8
50°-60°	1443.3	18.2
60°-70°	1792.5	22.6
70°-80°	1101.4	13.9
80°-90°	103.2	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°	7917.0	100.0
0°-180°	7917.0	100.0

Coefficient of Utilization



REPORT NUMBER: P157996

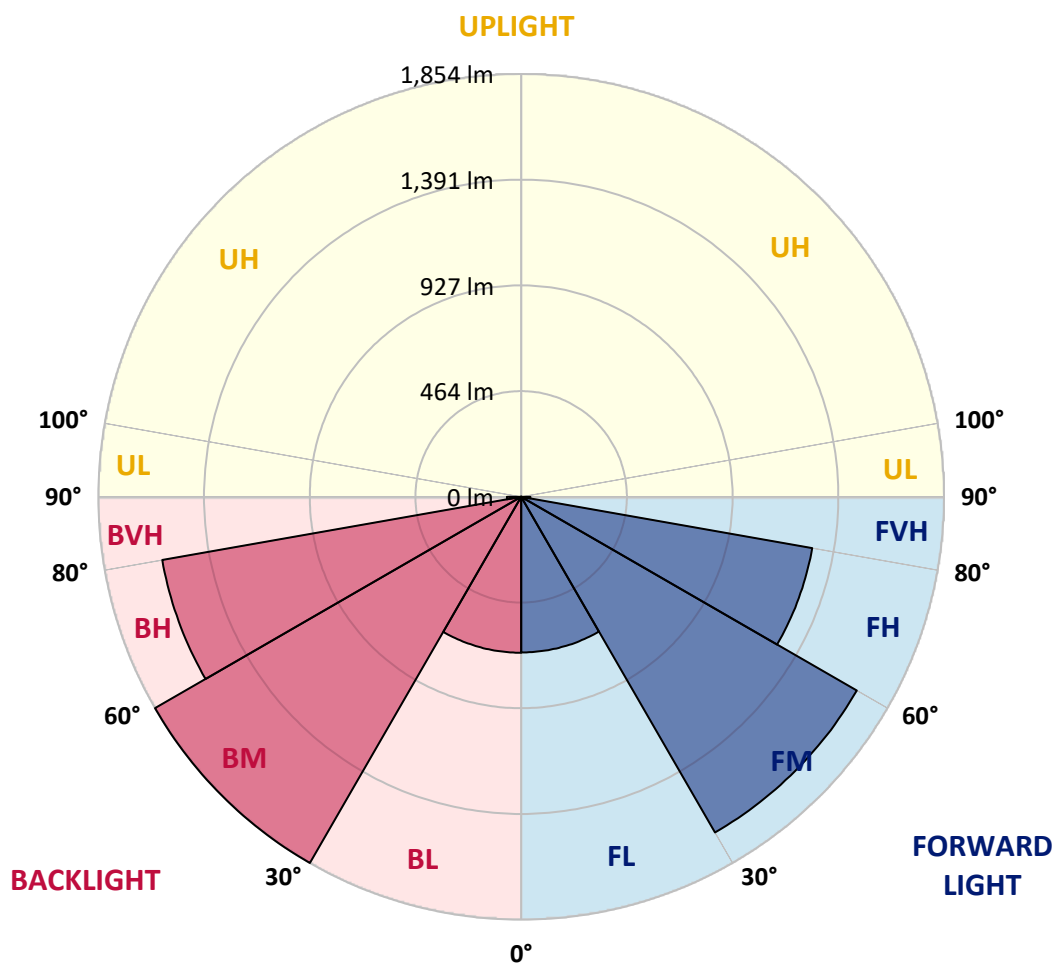
CATALOG NUMBER: VST-F03-LED-E-U-RW-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	682.4	8.6			
FM	(30°-60°)	1699.5	21.5			
FH	(60°-80°)	1295.9	16.4			G1/1800
FVH	(80°-90°)	40.4	0.5			G1/100
BL	(0°-30°)	683.8	8.6	B2/1000		
BM	(30°-60°)	1854.1	23.4	B2/2500		
BH	(60°-80°)	1598.0	20.2	B3/2500		G3/2500
BVH	(80°-90°)	62.8	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





REPORT NUMBER: P157996

CATALOG NUMBER: VST-F03-LED-E-U-RW-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9
2.5°	1527.8	1523.7	1527.3	1527.8	1527.3	1527.3	1522.7	1521.7	1515.6	1517.1	1516.6
5°	1548.6	1547.1	1549.6	1550.6	1551.7	1549.6	1546.1	1544.6	1540.5	1538.9	1538.5
7.5°	1567.9	1565.4	1569.5	1573.0	1575.5	1576.1	1576.6	1574.0	1574.0	1572.0	1572.0
10°	1584.2	1582.1	1588.8	1593.4	1601.5	1606.1	1611.1	1614.7	1616.7	1617.2	1616.7
12.5°	1591.3	1589.8	1600.4	1614.2	1629.4	1640.1	1652.8	1661.9	1664.5	1664.0	1666.6
15°	1579.1	1580.2	1596.4	1623.4	1655.9	1682.8	1700.6	1708.2	1710.2	1711.3	1711.8
17.5°	1546.1	1548.1	1571.5	1615.2	1672.1	1720.9	1747.3	1747.3	1743.3	1743.3	1742.8
20°	1493.2	1495.3	1525.7	1588.8	1672.6	1747.3	1784.9	1777.3	1762.1	1759.0	1756.0
22.5°	1420.0	1428.2	1461.7	1534.9	1650.8	1755.0	1808.3	1797.2	1773.2	1766.6	1762.1
25°	1337.2	1336.2	1376.3	1458.7	1597.9	1736.7	1814.9	1812.9	1787.5	1780.4	1772.3
27.5°	1242.7	1245.7	1282.8	1366.1	1517.1	1683.8	1803.8	1830.7	1809.8	1802.8	1795.1
30°	1145.6	1148.6	1183.7	1280.8	1425.1	1608.1	1780.9	1848.0	1839.8	1834.3	1829.2
32.5°	1048.0	1049.0	1090.7	1194.9	1347.4	1517.6	1746.4	1863.7	1874.9	1872.4	1870.3
35°	956.5	957.5	1002.8	1108.5	1270.6	1440.4	1704.7	1886.6	1922.7	1925.8	1927.8
37.5°	867.6	869.1	915.4	1026.1	1194.9	1381.9	1658.4	1921.7	1989.8	2000.9	2003.0
40°	779.2	780.7	824.9	942.3	1118.2	1330.6	1622.8	1971.0	2080.3	2095.5	2111.3
42.5°	694.8	700.4	738.0	850.3	1032.8	1267.1	1607.6	2030.9	2187.5	2211.4	2229.2
45°	616.0	616.5	659.2	764.4	931.6	1181.2	1597.4	2099.0	2307.4	2343.5	2367.9
47.5°	531.6	537.7	582.4	684.6	837.1	1075.0	1564.9	2178.8	2438.0	2480.2	2529.5
50°	449.8	458.5	501.7	602.8	750.7	965.2	1477.4	2272.4	2584.9	2639.8	2696.8
52.5°	371.0	370.5	416.3	521.5	663.8	872.2	1335.7	2370.5	2754.7	2813.6	2875.1
55°	280.6	280.6	325.8	421.9	569.8	789.3	1183.7	2431.4	2912.2	2983.4	3050.5
57.5°	192.6	197.7	240.4	323.2	471.7	713.6	1067.3	2396.4	3032.7	3121.1	3200.9
60°	142.8	147.9	179.4	232.3	369.0	624.1	979.9	2231.2	3105.4	3222.8	3326.5
62.5°	123.5	127.1	157.0	186.0	265.8	529.1	902.6	2021.3	3210.1	3370.7	3515.0
65°	110.3	113.8	143.8	160.6	207.9	425.4	859.4	1901.3	3335.1	3580.6	3790.0
67.5°	102.2	106.2	131.6	143.8	181.4	384.7	825.9	1873.4	3334.1	3631.9	3899.3
69°	98.1	101.2	122.0	135.2	175.3	372.5	753.2	1751.9	3114.0	3433.7	3702.1
70°	95.6	98.6	116.4	129.6	173.3	350.7	686.2	1591.3	2863.4	3185.2	3457.6
72.5°	87.4	90.5	103.7	115.9	144.4	234.3	478.3	1018.5	2046.2	2275.9	2587.5
75°	77.3	80.8	91.0	101.2	109.3	135.7	276.0	528.6	1170.0	1344.3	1621.8
77.5°	63.0	66.6	77.3	93.5	92.5	103.2	179.4	324.8	547.9	679.5	782.2
80°	51.8	54.4	63.5	94.6	75.7	86.4	145.4	266.3	385.7	426.4	450.8
82.5°	34.6	38.1	49.3	74.2	58.0	61.5	108.8	249.1	326.3	357.8	387.3
85°	16.3	17.8	30.0	39.7	35.0	33.1	62.0	175.9	242.9	257.7	268.9
87.5°	0.0	0.0	1.5	3.1	4.6	4.6	11.2	37.1	68.1	82.3	81.3
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: P157996

CATALOG NUMBER: VST-F03-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9
2.5°	1514.6	1515.1	1514.6	1514.6	1514.0	1513.0	1513.0	1512.0	1512.5	1512.0	1513.0
5°	1538.0	1538.0	1536.4	1535.4	1537.0	1535.4	1535.9	1533.4	1533.4	1531.9	1529.8
7.5°	1571.5	1571.5	1572.0	1568.9	1571.0	1571.5	1570.0	1568.9	1567.9	1565.4	1565.9
10°	1616.2	1616.2	1617.7	1613.7	1615.7	1616.7	1617.2	1617.2	1616.2	1611.7	1612.1
12.5°	1666.0	1665.0	1665.5	1663.5	1665.5	1666.6	1667.6	1666.6	1666.6	1665.5	1665.0
15°	1711.3	1710.8	1711.8	1710.2	1710.8	1711.8	1714.8	1714.3	1713.8	1710.8	1710.8
17.5°	1742.3	1740.7	1739.7	1739.2	1739.2	1738.7	1739.2	1739.2	1737.7	1737.2	1737.2
20°	1754.0	1749.9	1747.3	1745.8	1743.8	1742.8	1741.7	1742.3	1741.3	1739.7	1740.2
22.5°	1756.0	1750.4	1745.3	1740.7	1736.7	1734.1	1731.6	1730.6	1728.1	1726.5	1726.5
25°	1765.6	1757.0	1748.9	1741.3	1735.1	1729.6	1724.0	1719.9	1716.8	1713.3	1712.3
27.5°	1787.0	1777.9	1768.2	1758.5	1750.4	1739.2	1731.6	1723.4	1716.4	1710.8	1706.7
30°	1820.0	1810.9	1801.2	1790.0	1779.4	1767.7	1755.0	1745.3	1735.1	1724.0	1717.9
32.5°	1863.7	1857.7	1848.0	1837.3	1827.7	1815.5	1800.2	1785.5	1775.8	1762.6	1753.0
35°	1926.2	1919.2	1916.1	1911.5	1901.9	1894.3	1877.5	1863.7	1854.6	1836.3	1829.2
37.5°	2011.6	2011.1	2013.7	2012.2	2013.7	2004.0	1996.4	1995.9	1982.6	1964.9	1947.6
40°	2128.0	2134.1	2147.8	2157.5	2166.7	2167.7	2178.4	2167.1	2168.7	2166.1	2148.4
42.5°	2260.7	2281.5	2297.8	2326.3	2348.1	2368.4	2382.1	2401.0	2415.2	2427.9	2431.0
45°	2408.6	2439.6	2477.2	2502.6	2545.3	2579.3	2626.1	2662.2	2699.8	2736.9	2750.1
47.5°	2569.2	2607.8	2649.5	2696.8	2750.6	2804.0	2876.2	2931.5	2992.0	3042.4	3087.1
50°	2746.6	2786.7	2842.6	2897.0	2971.2	3032.7	3127.3	3199.9	3297.5	3364.6	3422.5
52.5°	2931.5	2981.9	3044.4	3104.3	3180.1	3258.8	3364.1	3471.3	3588.7	3690.4	3774.7
55°	3112.5	3174.5	3234.5	3304.6	3388.5	3479.9	3598.9	3740.2	3886.6	4003.0	4114.7
57.5°	3273.6	3345.3	3415.9	3487.1	3572.9	3679.2	3812.9	3965.3	4133.0	4288.1	4441.6
60°	3423.1	3508.9	3595.3	3684.3	3782.9	3914.0	4074.6	4262.2	4479.2	4691.1	4891.9
62.5°	3659.3	3772.2	3879.4	3994.3	4113.2	4267.2	4456.8	4702.8	4951.9	5216.6	5422.4
65°	3979.6	4138.1	4278.4	4427.3	4581.3	4787.2	5013.8	5308.1	5664.9	5936.3	6266.6
67.5°	4138.6	4347.5	4528.0	4693.6	4884.2	5092.1	5361.5	5709.6	6090.3	6483.7	6852.2
69°	3951.6	4167.1	4366.9	4552.4	4745.0	4946.8	5228.3	5585.6	5988.1	6413.5	6773.4
70°	3709.2	3924.7	4137.6	4349.0	4524.9	4721.6	5004.2	5372.6	5774.7	6216.8	6573.7
72.5°	2841.6	3100.8	3293.5	3491.6	3695.5	3862.1	4188.5	4499.0	4917.8	5366.6	5759.5
75°	1818.0	2056.4	2266.8	2435.5	2634.7	2834.5	3075.4	3420.5	3682.7	4051.2	4369.9
77.5°	934.1	1004.8	1207.6	1268.1	1406.3	1515.1	1647.7	1734.1	1947.6	1992.8	2180.9
80°	442.7	399.0	375.6	354.2	360.4	357.8	347.2	332.9	350.7	343.1	340.0
82.5°	385.7	344.1	274.4	233.3	201.8	171.3	147.4	135.2	136.7	140.8	142.3
85°	270.4	254.1	198.2	150.4	117.4	91.0	73.2	70.1	72.2	77.8	75.7
87.5°	78.2	81.8	72.2	50.3	35.0	25.4	19.8	22.4	21.4	20.8	21.8
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: P157996

CATALOG NUMBER: VST-F03-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9
2.5°	1513.0	1512.5	1511.0	1509.5	1509.5	1508.5	1509.5	1510.0	1509.5	1509.5	1508.5
5°	1530.3	1530.8	1532.3	1529.3	1528.8	1529.3	1527.3	1526.8	1525.3	1526.8	1524.7
7.5°	1563.4	1564.9	1564.9	1562.9	1562.3	1563.9	1560.8	1559.8	1558.3	1557.8	1557.2
10°	1612.7	1614.2	1611.7	1610.1	1608.6	1610.6	1608.1	1608.1	1606.6	1605.1	1604.5
12.5°	1667.6	1666.6	1665.5	1666.6	1665.0	1665.0	1663.5	1662.5	1661.9	1661.5	1660.4
15°	1710.2	1713.8	1713.8	1714.8	1713.8	1713.8	1711.8	1712.3	1711.3	1710.8	1711.3
17.5°	1737.7	1738.7	1741.3	1742.8	1742.8	1743.3	1742.3	1743.3	1742.3	1742.3	1744.3
20°	1741.3	1742.3	1744.8	1747.3	1748.9	1749.9	1749.9	1751.4	1752.4	1753.4	1756.0
22.5°	1727.0	1728.5	1731.6	1736.2	1738.7	1739.7	1741.7	1744.3	1746.8	1748.9	1752.4
25°	1712.3	1712.8	1715.8	1720.4	1723.4	1726.0	1729.6	1732.6	1736.2	1740.2	1744.3
27.5°	1704.1	1703.6	1706.2	1710.8	1713.3	1716.8	1719.9	1724.5	1728.5	1733.6	1737.2
30°	1711.3	1707.2	1707.7	1709.8	1711.8	1714.3	1717.9	1721.9	1726.5	1731.1	1735.1
32.5°	1742.8	1733.6	1727.5	1726.0	1726.5	1727.0	1729.1	1731.6	1735.1	1738.7	1740.2
35°	1810.9	1795.1	1787.0	1780.4	1774.8	1770.2	1771.3	1770.7	1770.7	1773.8	1770.2
37.5°	1940.5	1920.7	1912.0	1900.3	1893.7	1877.0	1872.4	1871.3	1864.7	1864.7	1857.1
40°	2143.8	2132.1	2125.5	2114.8	2082.8	2086.9	2064.0	2064.5	2045.7	2047.7	2034.5
42.5°	2433.0	2434.5	2426.3	2419.3	2394.4	2383.1	2361.8	2331.3	2307.4	2306.9	2280.5
45°	2767.4	2785.7	2759.8	2768.9	2747.0	2717.1	2692.2	2653.0	2615.9	2604.2	2577.3
47.5°	3117.1	3147.1	3127.3	3130.8	3120.1	3077.4	3043.9	2995.6	2947.3	2914.8	2898.5
50°	3490.6	3510.5	3509.9	3500.3	3495.2	3453.5	3399.7	3363.1	3327.5	3283.8	3269.5
52.5°	3829.1	3875.4	3906.4	3899.3	3884.5	3859.6	3811.9	3780.3	3728.0	3721.9	3728.0
55°	4191.5	4251.5	4283.0	4321.1	4321.6	4317.1	4297.2	4285.5	4236.7	4242.3	4235.2
57.5°	4534.6	4622.5	4670.8	4752.1	4780.0	4817.2	4803.4	4818.7	4789.2	4808.5	4802.9
60°	4999.6	5121.6	5201.9	5313.2	5365.0	5458.0	5476.3	5487.5	5503.8	5543.5	5521.1
62.5°	5584.6	5763.5	5930.2	6081.7	6131.5	6271.3	6294.1	6381.5	6386.1	6413.0	6363.7
65°	6542.2	6760.2	6943.6	7125.1	7229.8	7393.4	7459.5	7629.3	7577.5	7599.3	7494.1
67.5°	7169.3	7422.9	7668.9	7840.7	8014.5	8181.7	8302.2	8411.9	8411.0	8389.6	8296.1
69°	7113.9	7396.5	7638.9	7869.2	8052.1	8223.9	8368.7	8439.9	8464.8	8433.8	8367.2
70°	6922.3	7212.5	7509.3	7698.9	7898.2	8086.7	8236.1	8313.9	8331.2	8309.3	8251.9
72.5°	6037.0	6315.5	6642.8	6815.0	7056.0	7192.2	7398.0	7498.7	7516.4	7488.5	7450.9
75°	4711.4	4761.8	5095.1	5204.9	5379.8	5536.8	5664.9	5632.4	5723.3	5705.6	5691.4
77.5°	2219.5	2085.4	2301.4	2402.0	2349.1	2208.3	2413.1	2265.2	2363.3	2490.9	2458.4
80°	365.9	364.9	374.6	395.9	370.5	393.4	392.9	381.7	382.7	410.2	395.9
82.5°	140.8	143.8	145.4	149.4	149.4	149.9	152.5	155.5	153.0	158.0	157.0
85°	76.3	81.3	76.7	73.2	75.7	77.3	79.3	81.8	79.3	86.9	82.9
87.5°	19.8	20.8	18.3	18.3	17.8	16.3	16.3	17.3	18.8	22.4	24.4
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: P157996

CATALOG NUMBER: VST-F03-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9
2.5°	1506.4	1507.0	1507.4	1505.9	1504.9	1504.9	1504.4	1503.4	1502.9	1502.9	1502.9
5°	1523.7	1524.7	1522.2	1521.7	1520.7	1519.7	1519.7	1518.7	1519.1	1519.1	1516.6
7.5°	1558.3	1556.8	1553.7	1551.7	1553.7	1550.2	1548.6	1549.6	1548.6	1549.1	1548.1
10°	1604.5	1604.5	1601.0	1603.0	1600.4	1596.4	1597.9	1596.4	1595.4	1591.8	1593.8
12.5°	1661.9	1660.4	1658.4	1653.8	1652.3	1651.8	1647.2	1647.7	1646.2	1645.2	1643.6
15°	1712.3	1711.8	1707.2	1704.7	1704.1	1702.1	1700.1	1699.1	1696.5	1696.0	1695.0
17.5°	1745.8	1744.3	1742.3	1739.7	1739.7	1736.7	1735.7	1733.1	1732.6	1731.1	1729.6
20°	1757.0	1757.5	1755.5	1753.4	1752.4	1750.4	1748.9	1746.8	1745.8	1743.8	1742.3
22.5°	1754.5	1754.5	1752.4	1751.9	1749.9	1746.8	1744.8	1742.3	1739.7	1737.2	1734.1
25°	1746.4	1745.8	1744.3	1741.7	1739.2	1734.7	1730.6	1726.5	1723.0	1719.9	1715.3
27.5°	1739.2	1738.2	1735.1	1731.6	1726.5	1721.4	1713.8	1708.2	1703.6	1699.6	1694.5
30°	1736.7	1733.1	1728.5	1723.0	1716.8	1709.2	1701.1	1694.0	1688.9	1684.9	1682.8
32.5°	1739.7	1735.1	1728.1	1720.9	1713.3	1704.1	1696.0	1689.9	1685.3	1684.3	1684.3
35°	1767.7	1760.0	1750.4	1740.2	1730.6	1723.0	1717.4	1716.8	1713.8	1717.4	1723.0
37.5°	1849.5	1842.9	1828.1	1814.9	1808.3	1804.8	1799.7	1800.7	1793.6	1804.8	1813.9
40°	2023.3	2015.2	1997.9	1987.3	1974.0	1961.3	1971.5	1968.4	1973.5	1971.5	1981.1
42.5°	2276.9	2268.8	2241.4	2237.3	2231.7	2226.6	2226.6	2222.6	2220.5	2227.6	2219.5
45°	2585.5	2569.2	2559.0	2571.2	2554.4	2559.5	2577.3	2553.4	2559.0	2526.0	2495.5
47.5°	2905.6	2904.1	2901.6	2916.3	2918.9	2926.5	2936.2	2911.7	2867.5	2842.6	2780.6
50°	3274.1	3289.9	3296.0	3310.2	3316.3	3321.9	3306.7	3270.5	3195.8	3129.8	3056.6
52.5°	3721.9	3694.4	3732.1	3745.7	3739.7	3717.3	3662.4	3618.2	3515.0	3420.0	3306.7
55°	4243.3	4249.9	4223.5	4212.8	4192.0	4130.0	4054.3	3954.7	3824.0	3700.0	3556.7
57.5°	4774.4	4771.9	4730.8	4672.8	4602.2	4527.4	4414.6	4271.8	4119.3	3952.6	3779.3
60°	5420.5	5417.9	5334.5	5235.4	5134.8	5014.3	4837.5	4665.7	4461.4	4242.3	4036.0
62.5°	6269.2	6160.0	6078.1	5930.2	5774.7	5617.1	5377.7	5149.6	4876.6	4600.1	4359.2
65°	7356.8	7177.0	7083.9	6869.5	6628.6	6382.6	6139.1	5839.3	5471.8	5137.3	4843.1
67.5°	8161.4	7996.7	7826.5	7612.5	7348.2	7073.8	6740.3	6362.7	5945.5	5570.3	5249.6
69°	8232.1	8078.0	7873.7	7659.2	7409.2	7110.8	6746.9	6324.1	5901.2	5521.6	5206.0
70°	8124.8	7961.2	7746.2	7523.0	7243.5	6961.9	6580.7	6140.1	5716.7	5336.0	5028.1
72.5°	7324.9	7165.3	6936.5	6669.7	6383.0	6142.1	5780.3	5320.8	4860.4	4508.6	4268.8
75°	5569.9	5534.8	5372.6	5217.1	4991.5	4722.6	4391.8	4082.8	3705.1	3333.1	3109.4
77.5°	2376.5	2457.4	2541.7	2554.0	2562.1	2479.2	2427.9	2350.1	2097.5	1982.6	1864.3
80°	439.1	392.3	418.8	421.9	439.1	448.3	481.8	571.3	581.5	603.3	630.2
82.5°	156.1	158.6	162.7	164.2	165.7	171.8	194.6	233.3	268.4	314.1	375.1
85°	88.4	89.9	93.5	96.5	98.6	104.7	117.4	140.3	174.8	227.2	308.0
87.5°	26.9	30.5	32.5	36.6	38.1	39.1	44.7	60.0	77.3	114.4	166.7
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: P157996

CATALOG NUMBER: VST-F03-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9	1503.9
2.5°	1502.9	1502.4	1501.4	1500.4	1500.8	1499.8	1496.8	1495.7	1492.2	1489.7	1487.6
5°	1516.6	1516.1	1514.0	1514.6	1514.0	1509.0	1505.4	1499.3	1495.7	1490.2	1488.1
7.5°	1545.1	1544.6	1541.0	1542.5	1541.5	1533.9	1527.8	1518.1	1513.0	1505.9	1500.4
10°	1587.8	1587.8	1583.7	1584.2	1584.2	1574.0	1563.4	1547.1	1535.4	1524.2	1514.6
12.5°	1639.6	1637.6	1637.0	1634.5	1632.5	1621.3	1605.1	1583.2	1561.3	1543.0	1529.8
15°	1691.9	1688.9	1687.4	1684.3	1681.8	1671.6	1649.8	1622.8	1593.4	1563.9	1542.0
17.5°	1726.0	1724.0	1720.9	1719.9	1716.4	1706.2	1690.9	1664.0	1627.4	1586.2	1553.2
20°	1738.7	1735.1	1733.1	1731.1	1729.1	1721.9	1721.9	1704.7	1664.0	1606.1	1555.7
22.5°	1730.6	1728.5	1725.5	1724.0	1721.9	1723.0	1742.8	1740.2	1693.5	1610.6	1537.4
25°	1711.8	1709.2	1706.7	1706.7	1706.2	1716.8	1764.6	1771.3	1702.1	1588.3	1497.3
27.5°	1692.5	1688.9	1689.9	1690.4	1693.0	1715.8	1788.5	1779.4	1678.7	1534.4	1428.2
30°	1680.8	1680.8	1683.3	1687.4	1692.5	1732.6	1807.3	1761.1	1618.3	1453.1	1336.7
32.5°	1685.8	1690.9	1696.5	1706.7	1714.3	1769.7	1813.9	1713.8	1530.3	1352.5	1241.2
35°	1731.1	1737.2	1747.9	1763.6	1772.8	1823.1	1813.9	1644.7	1428.2	1266.1	1142.5
37.5°	1829.7	1835.8	1848.5	1860.7	1869.8	1890.2	1806.3	1556.8	1342.8	1176.6	1054.1
40°	1988.3	1996.9	2006.0	2004.0	1997.9	1978.1	1791.1	1474.9	1264.0	1098.3	967.2
42.5°	2211.4	2203.3	2202.2	2182.4	2162.1	2077.2	1779.9	1421.6	1196.4	1016.0	880.8
45°	2469.1	2436.0	2402.0	2375.5	2344.6	2186.0	1776.8	1378.4	1121.7	924.5	786.8
47.5°	2728.3	2675.4	2609.3	2568.2	2517.8	2301.8	1786.0	1320.4	1025.6	824.9	698.8
50°	2982.4	2896.0	2814.2	2764.9	2707.9	2435.0	1800.7	1222.9	910.8	734.4	618.5
52.5°	3217.7	3106.4	3022.6	2964.6	2894.9	2590.0	1787.5	1094.8	811.1	647.5	542.3
55°	3441.3	3318.4	3231.4	3170.5	3088.6	2745.5	1691.9	978.4	716.1	562.6	456.4
57.5°	3637.0	3519.1	3428.6	3345.8	3276.7	2880.7	1503.4	882.3	624.7	465.5	363.4
60°	3865.7	3733.1	3625.8	3537.4	3456.1	2950.4	1292.0	796.9	527.0	360.4	262.7
62.5°	4174.2	4021.7	3897.7	3796.6	3690.4	2965.6	1147.6	711.5	418.3	260.7	191.1
65°	4631.6	4443.6	4288.6	4149.3	4005.5	2902.6	1076.5	618.5	311.0	193.6	160.1
67.5°	4995.1	4799.9	4620.5	4441.6	4257.6	2785.7	1060.7	532.6	238.9	164.7	143.8
69°	4950.8	4764.8	4600.1	4406.5	4202.7	2638.8	1045.0	499.6	218.0	153.0	136.2
70°	4780.6	4604.2	4437.0	4279.4	4029.9	2475.2	1003.3	481.3	209.9	147.4	130.6
72.5°	4039.6	3835.2	3673.1	3476.9	3214.1	1839.4	760.9	389.3	192.6	134.7	117.9
75°	2946.3	2777.0	2615.5	2398.4	2142.8	1064.3	473.7	222.6	141.3	122.0	106.7
77.5°	1720.4	1682.3	1526.3	1383.4	1130.3	541.8	271.9	133.1	109.8	110.8	94.0
80°	647.5	689.7	705.4	656.2	606.4	374.0	197.7	108.2	95.6	109.3	79.8
82.5°	472.1	547.9	557.0	533.6	496.6	348.7	158.0	86.9	77.8	117.4	68.6
85°	393.9	436.1	442.7	418.3	406.1	295.3	110.3	61.0	56.9	84.4	51.4
87.5°	199.3	209.9	215.5	195.2	196.2	137.8	44.2	25.9	31.0	36.1	28.4
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: P157996

CATALOG NUMBER: VST-F03-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1503.9	1503.9
2.5°	1483.1	1486.1
5°	1485.1	1485.1
7.5°	1496.8	1496.8
10°	1509.5	1510.0
12.5°	1521.2	1520.7
15°	1530.3	1528.8
17.5°	1535.9	1534.4
20°	1530.3	1527.8
22.5°	1501.9	1494.7
25°	1450.0	1440.9
27.5°	1381.4	1375.3
30°	1292.0	1282.8
32.5°	1187.3	1182.7
35°	1087.1	1081.6
37.5°	995.6	994.1
40°	918.4	910.3
42.5°	827.9	824.4
45°	736.0	733.9
47.5°	649.6	647.5
50°	569.8	565.7
52.5°	491.5	484.9
55°	404.6	400.0
57.5°	310.6	306.5
60°	218.5	214.0
62.5°	155.5	150.4
65°	129.6	125.5
67.5°	117.4	112.9
69°	111.8	107.8
70°	108.2	105.2
72.5°	100.6	98.6
75°	92.0	90.5
77.5°	80.8	78.2
80°	67.6	65.0
82.5°	56.9	54.4
85°	38.1	34.6
87.5°	17.3	15.2
90°	0.0	0.0

(END OF REPORT)