

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: P159354

Luminaire Tested: **VST-F07-LED-E-U-T2-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159354
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-F07-LED-E-U-T2-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (49) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16291.5 lumens
Efficiency: N/A
Efficacy: 90.3 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 180.5
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



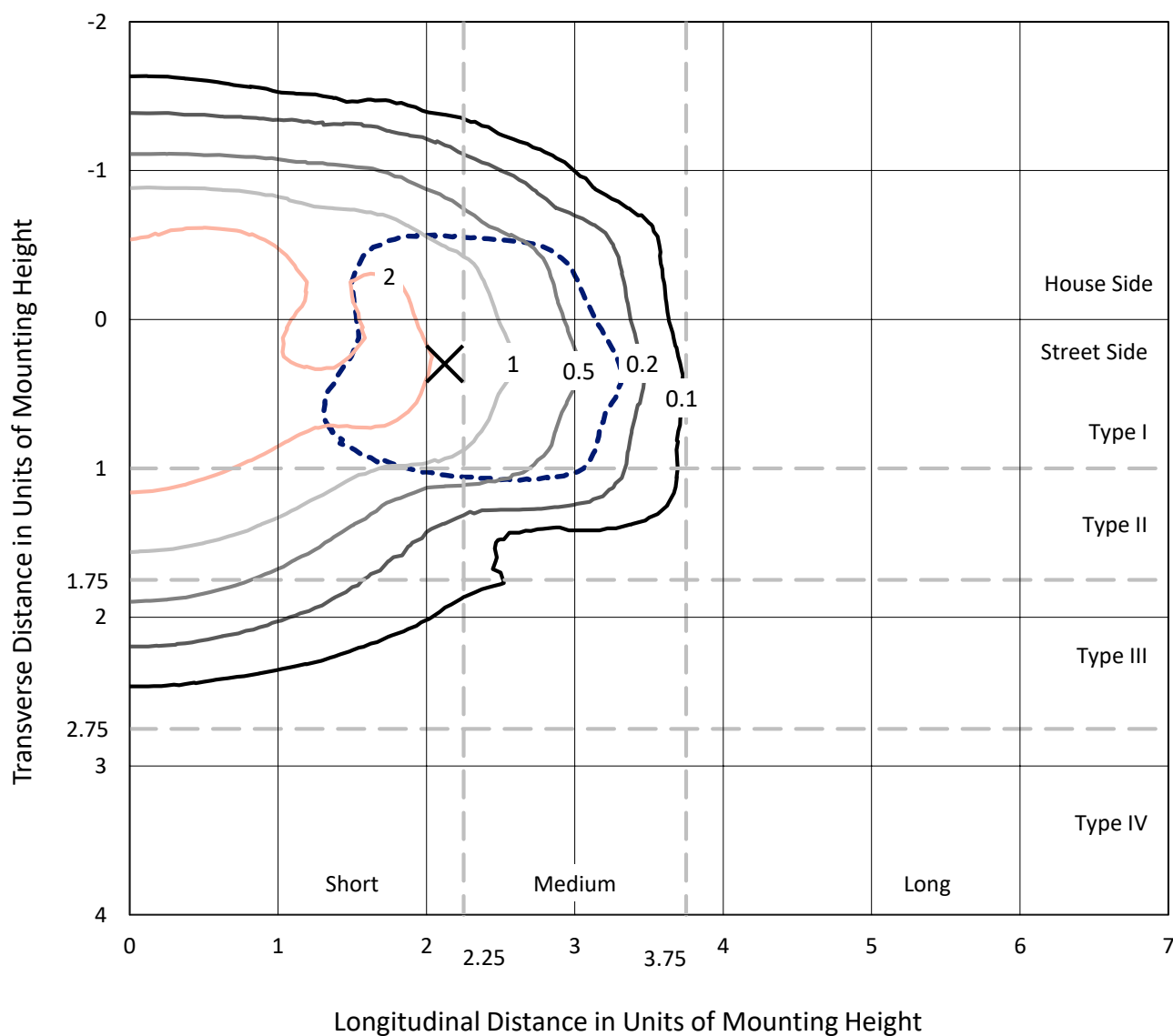
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

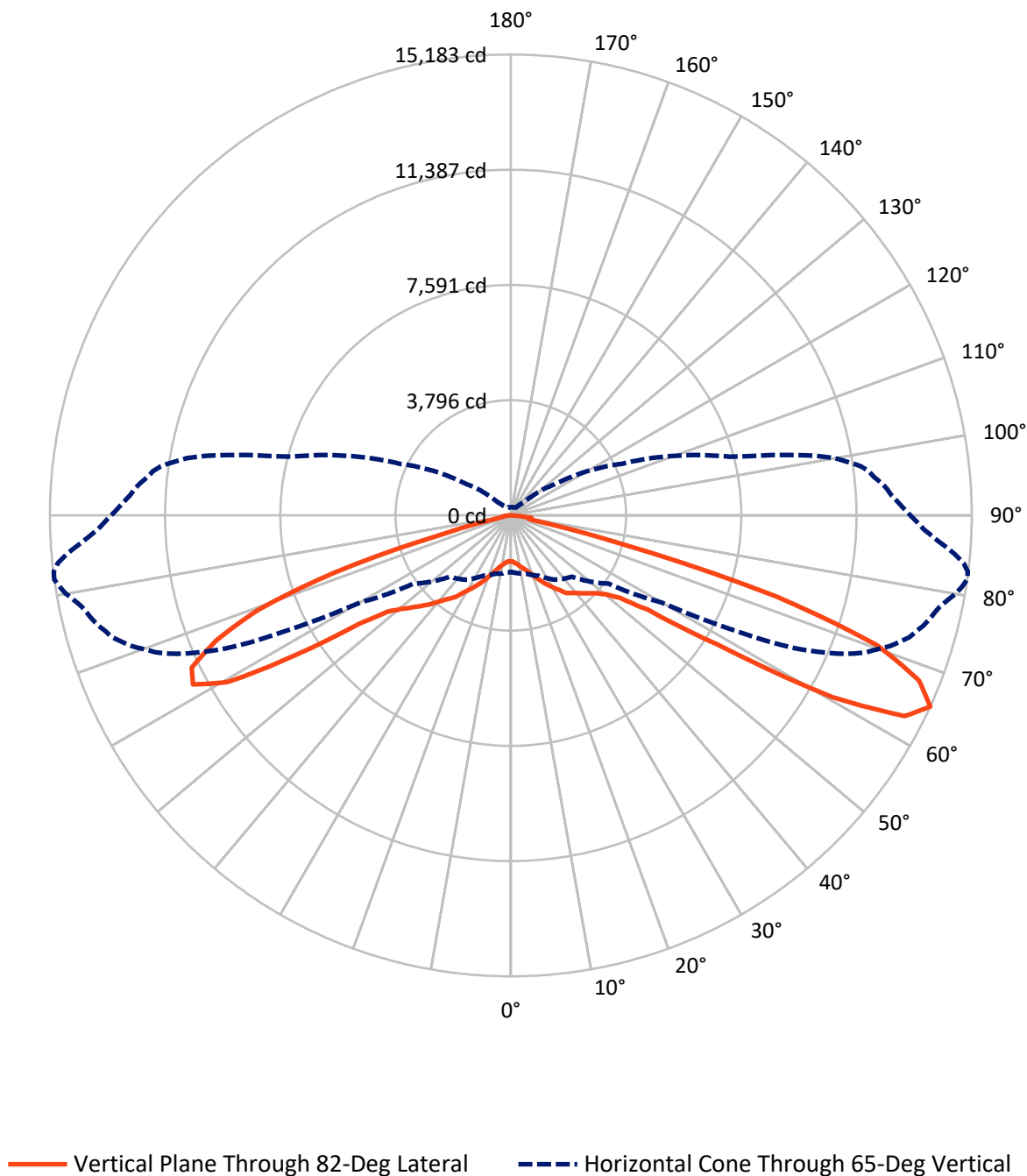


Based on 25 foot mounting height. Maximum calculated value = 3.1 fc
Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	6065.9	0.0	6065.9
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	10225.7	0.0	10225.7
	% Fixture	62.8	0.0	62.8
Total	Lumens	16291.5	0.0	16291.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	153.5	0.9
10°-20°	539.2	3.3
20°-30°	1068.4	6.6
30°-40°	1831.5	11.2
40°-50°	2751.4	16.9
50°-60°	3822.5	23.5
60°-70°	4360.9	26.8
70°-80°	1502.3	9.2
80°-90°	261.8	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°	16291.5	100.0
0°-180°	16291.5	100.0

Coefficient of Utilization



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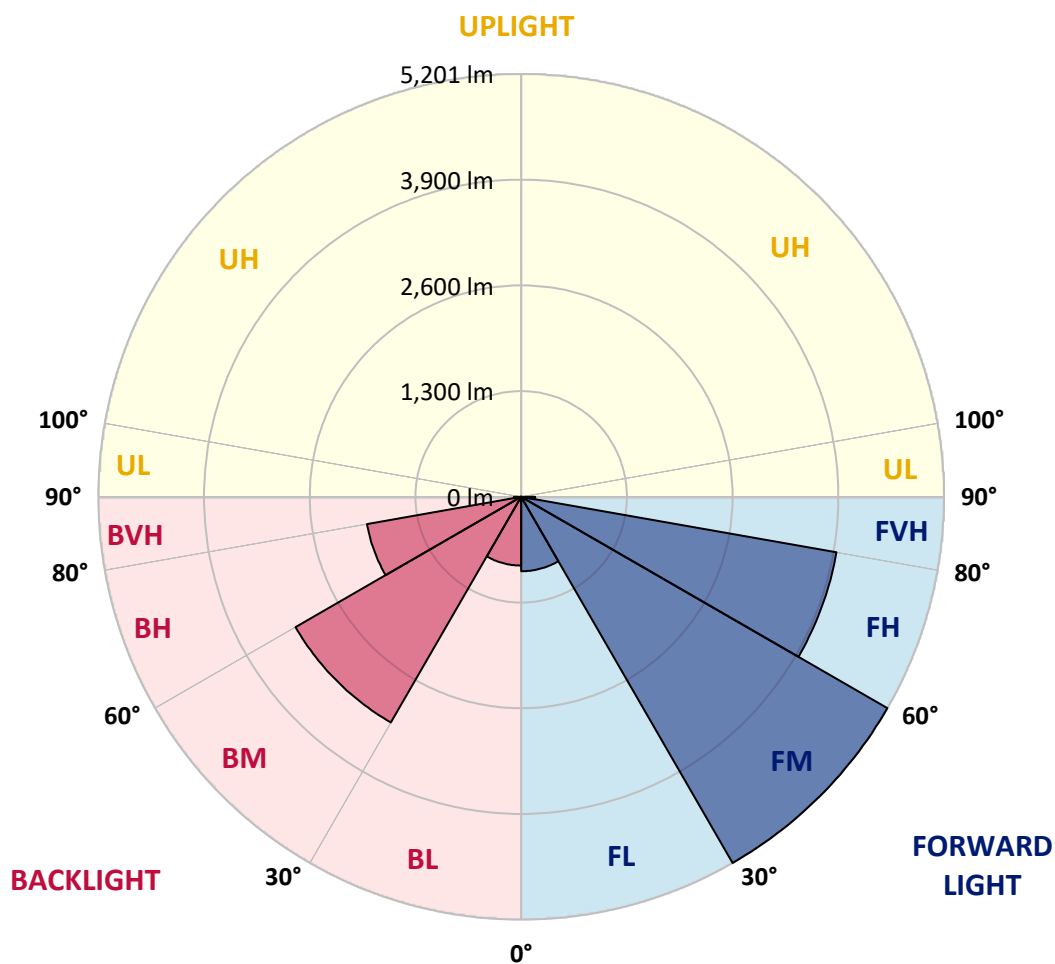
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	915.2	5.6			
FM	(30°-60°)	5200.6	31.9			
FH	(60°-80°)	3937.5	24.2			G2/5000
FVH	(80°-90°)	172.4	1.1			G2/225
BL	(0°-30°)	845.8	5.2	B2/1000		
BM	(30°-60°)	3204.8	19.7	B3/5000		
BH	(60°-80°)	1925.7	11.8	B3/2500		G3/2500
BVH	(80°-90°)	89.5	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°	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8
2.5°	1598.2	1599.2	1598.2	1595.0	1593.9	1584.4	1573.9	1568.6	1567.6	1563.3	1564.4
5°	1697.4	1694.2	1690.0	1684.7	1679.4	1663.6	1645.7	1636.2	1633.0	1629.8	1625.6
7.5°	1786.1	1788.2	1786.1	1778.7	1764.9	1744.9	1721.7	1706.9	1705.8	1702.7	1699.5
10°	1900.1	1905.3	1892.7	1880.0	1861.0	1830.4	1804.0	1785.0	1781.8	1777.6	1775.5
12.5°	2023.6	2024.6	2020.4	1991.9	1960.2	1918.0	1880.0	1861.0	1856.8	1851.5	1849.4
15°	2155.5	2156.6	2133.3	2105.9	2057.3	2006.7	1953.9	1932.8	1927.5	1928.6	1920.1
17.5°	2260.0	2262.1	2240.0	2205.1	2147.1	2086.9	2029.9	2013.0	2009.8	2010.9	2006.7
20°	2305.4	2308.6	2294.9	2268.5	2213.6	2160.8	2119.6	2109.1	2108.0	2105.9	2114.3
22.5°	2303.3	2304.4	2299.1	2288.5	2255.8	2225.2	2219.9	2226.2	2225.2	2227.3	2234.7
25°	2284.3	2287.5	2286.4	2290.6	2285.4	2297.0	2321.2	2343.4	2346.6	2350.8	2364.5
27.5°	2332.9	2339.2	2331.8	2336.0	2344.5	2383.5	2433.1	2466.9	2473.2	2484.9	2496.5
30°	2522.9	2514.4	2504.9	2494.4	2499.6	2523.9	2579.9	2609.4	2612.6	2621.0	2636.9
32.5°	2804.7	2795.2	2786.8	2769.9	2765.6	2755.1	2774.1	2781.5	2780.4	2788.9	2793.1
35°	3122.4	3123.5	3121.4	3134.0	3144.6	3090.8	3024.3	3006.3	3013.7	3004.2	3006.3
37.5°	3393.7	3396.9	3452.8	3522.5	3542.6	3508.8	3363.1	3291.3	3267.1	3263.9	3239.6
40°	3694.6	3694.6	3779.0	3864.5	3920.5	3962.7	3789.6	3662.9	3611.2	3596.4	3536.2
42.5°	4025.0	4008.1	4085.1	4179.1	4282.5	4378.6	4288.9	4146.4	4072.5	4046.1	3940.5
45°	4296.3	4285.7	4323.7	4411.3	4579.2	4767.0	4779.7	4706.9	4662.5	4607.7	4510.5
47.5°	4463.0	4457.8	4479.9	4574.9	4785.0	5089.0	5259.0	5295.9	5269.5	5227.3	5133.3
50°	4528.5	4521.1	4536.9	4642.5	4877.9	5279.0	5654.8	5829.0	5841.6	5851.1	5821.6
52.5°	4505.3	4495.8	4528.5	4617.2	4862.1	5345.5	5964.1	6298.7	6354.7	6402.2	6499.3
55°	4282.5	4267.8	4356.4	4523.2	4793.4	5321.2	6190.0	6750.5	6868.7	6995.4	7210.7
57.5°	3941.6	3928.9	4056.6	4285.7	4672.0	5254.7	6342.0	7321.6	7587.6	7815.6	8426.8
60°	3613.3	3602.7	3677.7	3899.4	4278.3	4930.7	6154.1	7513.7	7960.2	8452.1	9567.9
62.5°	3026.4	2997.9	3098.2	3285.0	3524.6	4078.8	5333.9	7086.2	7774.4	8497.5	10010.2
65°	1860.0	1901.1	1987.7	2194.6	2587.3	2851.2	3917.3	5732.9	6640.7	7547.5	9509.8
67.5°	1181.2	1192.8	1257.2	1400.8	1704.8	1969.7	2374.0	3597.5	4297.3	5189.3	7466.2
70°	1012.3	1019.7	1074.6	1224.5	1434.5	1760.7	1796.6	1879.0	2130.2	2698.1	4389.1
72.5°	798.0	810.7	854.0	983.8	1237.2	1587.6	2217.8	1485.2	1434.5	1482.0	2141.8
75°	475.0	489.8	525.7	596.4	794.9	1213.9	2323.4	1728.0	1610.8	1519.0	1477.8
77.5°	251.2	240.7	265.0	306.1	408.5	647.1	1745.9	2117.5	2035.2	1925.4	1692.1
80°	124.6	128.8	136.2	144.6	182.6	262.8	873.0	2190.4	2427.9	2533.4	2326.5
82.5°	49.6	55.9	79.2	84.4	100.3	111.9	280.8	1213.9	1738.6	2358.2	3079.2
85°	25.3	24.3	42.2	50.7	59.1	52.8	99.2	452.8	814.9	1269.9	2057.3
87.5°	3.2	4.2	9.5	12.7	17.9	16.9	28.5	98.2	156.2	221.7	311.4
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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CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8
2.5°	1559.1	1558.1	1558.1	1553.8	1553.8	1554.9	1551.7	1549.6	1549.6	1550.7	1546.4
5°	1622.4	1619.3	1619.3	1615.1	1609.8	1609.8	1605.6	1604.5	1602.4	1598.2	1595.0
7.5°	1696.3	1693.2	1687.9	1684.7	1682.6	1679.4	1674.2	1672.1	1667.8	1663.6	1659.4
10°	1772.3	1768.1	1766.0	1760.7	1758.6	1752.3	1749.1	1750.2	1741.7	1738.6	1739.6
12.5°	1848.3	1844.1	1836.7	1834.6	1833.6	1827.2	1824.1	1821.9	1815.6	1814.6	1811.4
15°	1915.9	1918.0	1914.8	1909.6	1905.3	1904.3	1901.1	1899.0	1894.8	1890.6	1886.3
17.5°	2003.5	2006.7	2002.5	1995.1	1995.1	1994.0	1995.1	1994.0	1986.6	1989.8	1987.7
20°	2115.4	2117.5	2107.0	2110.1	2112.2	2111.2	2114.3	2117.5	2115.4	2115.4	2118.6
22.5°	2244.2	2247.4	2241.0	2245.2	2251.6	2246.3	2255.8	2254.7	2256.9	2260.0	2261.1
25°	2376.1	2382.5	2377.2	2388.8	2384.6	2388.8	2400.4	2397.2	2402.5	2411.0	2414.1
27.5°	2508.1	2512.3	2513.4	2520.8	2528.1	2534.5	2549.3	2549.3	2553.5	2568.3	2568.3
30°	2646.4	2650.6	2654.8	2665.4	2669.6	2681.2	2696.0	2700.2	2698.1	2719.2	2725.5
32.5°	2805.8	2810.0	2817.4	2830.0	2835.3	2846.9	2846.9	2858.5	2867.0	2884.9	2886.0
35°	3017.9	3021.1	3017.9	3016.9	3024.3	3040.1	3041.2	3058.0	3065.4	3083.4	3088.7
37.5°	3230.1	3229.1	3215.3	3200.6	3201.6	3195.3	3191.1	3198.4	3201.6	3202.7	3214.3
40°	3516.2	3488.7	3467.6	3430.7	3413.8	3387.4	3371.6	3370.5	3353.6	3351.5	3354.7
42.5°	3890.9	3859.2	3809.6	3747.3	3699.8	3651.3	3615.4	3594.3	3557.3	3538.3	3522.5
45°	4414.5	4336.4	4277.3	4203.4	4111.5	4027.1	3938.4	3898.3	3827.6	3784.3	3735.7
47.5°	5054.2	4977.1	4886.3	4810.3	4690.0	4572.8	4451.4	4344.8	4221.3	4123.1	4042.9
50°	5748.7	5703.4	5637.9	5567.2	5412.0	5335.0	5181.9	5037.3	4904.3	4729.0	4576.0
52.5°	6461.3	6487.7	6472.9	6447.5	6349.4	6319.8	6187.9	6011.6	5877.5	5757.2	5491.2
55°	7339.5	7371.2	7434.5	7471.5	7459.9	7534.8	7502.1	7364.9	7311.0	7255.1	7066.1
57.5°	8683.3	8909.2	9150.9	9363.1	9412.7	9678.7	9621.7	9758.9	9856.1	9786.4	9725.2
60°	10115.7	10571.7	10982.4	11412.0	11761.4	12023.2	12369.4	12602.7	12749.4	13013.3	13034.4
62.5°	10693.1	11312.8	11834.2	12332.5	12747.3	13110.4	13422.9	13744.8	14008.7	14247.3	14419.4
65°	10376.5	11023.5	11655.8	12161.5	12560.5	12872.9	13212.8	13468.3	13728.0	13881.0	14061.5
67.5°	8626.3	9483.4	10261.4	10831.4	11377.2	11694.9	12097.1	12348.3	12623.8	12785.3	12901.4
70°	5624.2	6739.9	7802.9	8667.5	9404.3	9774.8	10260.3	10603.4	10934.9	10943.3	11136.5
72.5°	3034.8	3968.0	4857.8	5741.4	6581.6	7074.6	7553.8	7970.8	8300.1	8159.7	8351.8
75°	1690.0	2127.0	2613.6	3144.6	3656.6	3938.4	4296.3	4298.4	4468.3	4201.3	4268.8
77.5°	1625.6	1605.6	1612.9	1627.7	1653.1	1599.2	1598.2	1565.4	1514.8	1422.9	1438.8
80°	2135.5	1880.0	1696.3	1408.2	1133.7	924.7	866.6	880.4	921.5	1003.9	1108.4
82.5°	3087.6	2872.3	2564.0	2110.1	1656.2	1277.3	1049.3	931.0	925.8	1008.1	1166.4
85°	2248.4	2378.2	2358.2	1968.7	1623.5	1318.4	959.5	810.7	671.4	638.6	694.6
87.5°	331.5	274.5	309.3	258.6	187.9	145.7	127.7	102.4	98.2	100.3	109.8
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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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8
2.5°	1547.5	1543.3	1539.1	1542.2	1539.1	1538.0	1534.8	1532.7	1531.7	1531.7	1531.7
5°	1595.0	1589.7	1586.6	1585.5	1582.3	1579.2	1578.1	1572.8	1571.8	1571.8	1568.6
7.5°	1659.4	1655.2	1649.9	1646.7	1644.6	1639.3	1634.1	1633.0	1631.9	1627.7	1624.6
10°	1734.3	1728.0	1721.7	1721.7	1717.4	1716.4	1711.1	1703.7	1702.7	1696.3	1694.2
12.5°	1805.1	1802.9	1795.6	1793.4	1790.3	1787.1	1783.9	1780.8	1777.6	1772.3	1774.4
15°	1889.5	1884.2	1877.9	1879.0	1877.9	1873.7	1869.5	1866.3	1864.2	1862.1	1862.1
17.5°	1990.8	1988.7	1987.7	1982.4	1978.2	1981.3	1981.3	1981.3	1976.1	1977.1	1978.2
20°	2119.6	2121.7	2119.6	2115.4	2114.3	2117.5	2110.1	2121.7	2115.4	2111.2	2113.3
22.5°	2262.1	2269.5	2261.1	2262.1	2267.4	2269.5	2262.1	2271.6	2268.5	2262.1	2267.4
25°	2417.3	2422.6	2418.4	2417.3	2420.5	2427.9	2426.8	2425.7	2433.1	2426.8	2430.0
27.5°	2576.7	2579.9	2582.0	2585.1	2587.3	2586.2	2590.4	2590.4	2594.6	2587.3	2590.4
30°	2735.0	2735.0	2739.3	2743.5	2743.5	2743.5	2751.9	2753.0	2746.6	2748.8	2741.4
32.5°	2903.9	2905.0	2909.2	2909.2	2917.7	2918.7	2928.2	2915.5	2928.2	2917.7	2919.8
35°	3102.4	3116.1	3118.2	3128.8	3137.2	3140.4	3140.4	3141.4	3153.0	3144.6	3147.8
37.5°	3218.5	3221.7	3230.1	3235.4	3235.4	3239.6	3242.8	3239.6	3242.8	3241.7	3244.9
40°	3355.7	3352.6	3362.1	3364.2	3359.9	3365.2	3364.2	3361.0	3369.4	3363.1	3367.3
42.5°	3522.5	3504.6	3503.5	3512.0	3503.5	3507.7	3506.7	3499.3	3509.8	3513.0	3509.8
45°	3700.9	3691.4	3672.4	3672.4	3664.0	3660.8	3661.8	3660.8	3661.8	3674.5	3678.7
47.5°	3991.2	3933.1	3900.4	3869.8	3844.5	3843.4	3831.8	3838.1	3846.6	3867.7	3886.7
50°	4477.8	4343.8	4261.4	4185.4	4130.5	4111.5	4089.4	4087.2	4094.6	4118.9	4151.6
52.5°	5345.5	5159.7	4984.5	4821.9	4680.5	4571.8	4517.9	4489.4	4478.9	4503.2	4534.8
55°	6933.1	6582.7	6335.7	6171.0	5819.5	5670.6	5479.6	5392.0	5306.5	5314.9	5368.7
57.5°	9646.0	9457.0	9250.1	8962.0	8746.6	8487.0	8009.8	7743.8	7755.4	7817.7	7623.5
60°	13201.2	13010.2	12924.7	12662.9	12513.0	12408.5	12155.1	11713.9	11557.7	11528.1	11171.3
62.5°	14551.3	14596.7	14664.3	14738.2	14733.9	14779.3	14557.7	14414.1	14233.6	13999.2	13646.7
65°	14198.8	14313.8	14451.0	14649.5	14875.4	15042.2	15182.6	15165.7	14996.8	14684.3	14311.7
67.5°	13004.9	13118.9	13219.2	13485.2	13855.7	14194.5	14494.3	14698.0	14585.1	14326.5	13891.6
70°	11210.4	11292.7	11356.0	11587.2	11993.6	12407.4	12799.0	13141.1	13106.2	12792.7	12445.4
72.5°	8122.8	8322.3	8429.9	8414.1	8665.3	9128.7	9183.6	9476.0	9557.3	9219.5	8666.4
75°	3957.4	3960.6	3836.0	3794.8	3807.5	3887.7	3734.7	3744.2	3691.4	3451.8	3254.4
77.5°	1382.8	1344.8	1254.0	1146.4	992.3	847.6	700.9	637.6	616.5	554.2	510.9
80°	1191.8	1247.7	1229.8	1141.1	978.5	780.1	582.7	431.7	368.4	346.2	325.1
82.5°	1353.3	1568.6	1705.8	1698.4	1475.7	1108.4	691.4	396.9	282.9	248.1	228.0
85°	754.7	811.7	827.6	753.7	626.0	427.5	238.6	167.8	142.5	129.8	117.2
87.5°	120.3	109.8	107.7	93.9	88.7	81.3	71.8	67.6	62.3	59.1	59.1
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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CATALOG NUMBER: VST-F07-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8
2.5°	1530.6	1529.6	1526.4	1523.2	1521.1	1520.1	1519.0	1516.9	1515.8	1514.8	1512.7
5°	1566.5	1564.4	1559.1	1553.8	1551.7	1548.6	1545.4	1543.3	1541.2	1540.1	1535.9
7.5°	1622.4	1620.3	1614.0	1609.8	1608.7	1600.3	1599.2	1596.1	1590.8	1589.7	1583.4
10°	1690.0	1688.9	1683.7	1680.5	1678.4	1674.2	1667.8	1662.6	1657.3	1657.3	1653.1
12.5°	1768.1	1763.9	1767.1	1759.7	1757.6	1753.3	1750.2	1749.1	1742.8	1737.5	1736.4
15°	1860.0	1854.7	1854.7	1852.6	1850.5	1846.2	1845.2	1846.2	1839.9	1842.0	1835.7
17.5°	1974.0	1976.1	1975.0	1975.0	1969.7	1969.7	1961.3	1971.8	1964.5	1969.7	1967.6
20°	2116.5	2117.5	2115.4	2118.6	2120.7	2119.6	2118.6	2117.5	2120.7	2124.9	2121.7
22.5°	2268.5	2268.5	2267.4	2279.0	2266.4	2275.9	2279.0	2272.7	2289.6	2287.5	2290.6
25°	2433.1	2433.1	2441.6	2451.1	2453.2	2445.8	2450.0	2444.7	2455.3	2463.7	2465.9
27.5°	2586.2	2599.9	2606.3	2599.9	2605.2	2616.8	2615.8	2615.8	2623.1	2621.0	2641.1
30°	2743.5	2751.9	2760.4	2756.1	2758.3	2773.0	2774.1	2775.1	2784.6	2798.4	2813.1
32.5°	2922.9	2931.4	2927.2	2940.9	2939.8	2957.8	2960.9	2964.1	2993.7	2988.4	3019.0
35°	3143.5	3152.0	3147.8	3162.6	3160.4	3166.8	3178.4	3191.1	3196.3	3226.9	3251.2
37.5°	3247.0	3247.0	3256.5	3273.4	3279.7	3290.3	3308.2	3324.1	3350.4	3383.2	3421.2
40°	3371.6	3374.7	3387.4	3405.3	3416.9	3441.2	3473.9	3496.1	3536.2	3572.1	3616.5
42.5°	3522.5	3536.2	3551.0	3575.3	3600.6	3638.6	3685.1	3713.6	3766.3	3812.8	3867.7
45°	3698.8	3712.5	3747.3	3791.7	3828.6	3870.9	3908.9	3976.4	4023.9	4072.5	4120.0
47.5°	3912.0	3952.1	3980.6	4033.4	4078.8	4134.7	4182.3	4245.6	4297.3	4356.4	4396.5
50°	4185.4	4235.0	4272.0	4340.6	4384.9	4447.2	4507.4	4554.9	4607.7	4665.7	4698.4
52.5°	4578.1	4628.8	4675.2	4760.7	4815.6	4857.8	4938.1	4997.2	5045.7	5087.9	5123.8
55°	5428.9	5414.1	5542.9	5708.6	5727.6	5880.7	5909.2	5958.8	6048.5	6061.2	6161.5
57.5°	7859.9	7783.9	7970.8	8213.6	8171.3	8094.3	8416.2	8436.3	8390.9	8512.3	8375.1
60°	11224.1	11091.1	11141.8	11208.3	11112.2	11066.8	11082.6	11128.0	11083.7	11035.1	10902.1
62.5°	13470.4	13265.6	13118.9	12995.4	12839.2	12726.2	12599.5	12443.3	12401.1	12223.7	12074.9
65°	13949.6	13630.8	13398.6	13165.3	12950.0	12750.5	12559.4	12425.4	12248.0	12038.0	11882.8
67.5°	13422.9	13028.1	12688.2	12349.4	12105.5	11812.1	11668.5	11450.0	11231.5	10990.8	10848.3
70°	11892.3	11480.6	11053.1	10721.6	10390.2	10027.1	9956.3	9697.7	9572.1	9243.8	9186.8
72.5°	8208.3	7933.8	7742.8	7333.2	7131.6	6945.8	6886.7	6647.1	6672.4	6312.4	6443.3
75°	2918.7	2879.7	2823.7	2592.5	2551.4	2479.6	2460.6	2443.7	2614.7	2377.2	2549.3
77.5°	501.4	498.2	469.7	456.0	482.4	465.5	469.7	461.3	510.9	518.3	506.7
80°	311.4	303.0	293.5	287.1	288.2	281.8	282.9	285.0	288.2	287.1	290.3
82.5°	213.2	205.8	201.6	197.4	203.7	205.8	211.1	216.4	224.8	230.1	236.5
85°	116.1	106.6	106.6	105.6	114.0	120.3	128.8	139.3	154.1	166.8	180.5
87.5°	59.1	57.0	58.1	60.2	67.6	72.8	83.4	92.9	105.6	119.3	131.9
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-F07-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8	1515.8
2.5°	1511.6	1511.6	1510.6	1510.6	1509.5	1508.4	1507.4	1504.2	1492.6	1482.0	1474.7
5°	1534.8	1531.7	1530.6	1527.4	1526.4	1524.3	1521.1	1517.9	1496.8	1477.8	1464.1
7.5°	1582.3	1578.1	1576.0	1572.8	1569.7	1565.4	1561.2	1558.1	1532.7	1510.6	1493.7
10°	1644.6	1642.5	1641.4	1637.2	1637.2	1630.9	1629.8	1622.4	1595.0	1574.9	1560.2
12.5°	1731.2	1726.9	1725.9	1720.6	1722.7	1720.6	1718.5	1714.3	1694.2	1671.0	1650.9
15°	1838.8	1838.8	1833.6	1829.3	1830.4	1828.3	1832.5	1827.2	1814.6	1793.4	1760.7
17.5°	1968.7	1966.6	1968.7	1965.5	1967.6	1969.7	1964.5	1965.5	1959.2	1932.8	1884.2
20°	2119.6	2116.5	2129.1	2123.8	2135.5	2124.9	2127.0	2130.2	2130.2	2095.3	2029.9
22.5°	2292.7	2290.6	2290.6	2301.2	2305.4	2306.5	2310.7	2313.9	2322.3	2278.0	2173.5
25°	2465.9	2473.2	2474.3	2488.0	2494.4	2494.4	2497.5	2509.1	2534.5	2473.2	2338.1
27.5°	2642.1	2660.1	2664.3	2673.8	2683.3	2692.8	2700.2	2708.6	2749.8	2683.3	2507.0
30°	2818.4	2838.5	2853.3	2863.8	2875.4	2898.7	2902.9	2919.8	2988.4	2907.1	2667.5
32.5°	3025.3	3053.8	3072.8	3086.5	3104.5	3126.7	3139.3	3160.4	3226.9	3093.9	2784.6
35°	3272.3	3289.2	3316.7	3339.9	3350.4	3388.4	3408.5	3413.8	3464.4	3255.4	2871.2
37.5°	3443.3	3471.8	3519.3	3552.1	3571.1	3592.2	3626.0	3648.1	3696.7	3402.2	2914.5
40°	3660.8	3704.1	3742.1	3790.6	3821.2	3837.1	3870.9	3888.8	3895.1	3527.8	2900.8
42.5°	3925.7	3964.8	4015.5	4054.5	4077.7	4095.7	4123.1	4130.5	4048.2	3586.9	2826.9
45°	4174.9	4235.0	4278.3	4306.8	4323.7	4333.2	4350.1	4351.1	4174.9	3557.3	2700.2
47.5°	4443.0	4486.3	4526.4	4546.4	4544.3	4546.4	4540.1	4535.9	4238.2	3454.9	2537.6
50°	4739.6	4768.1	4785.0	4794.5	4799.8	4779.7	4751.2	4732.2	4243.5	3309.3	2373.0
52.5°	5137.6	5173.5	5170.3	5169.2	5127.0	5108.0	5032.0	4992.9	4212.9	3138.3	2187.2
55°	6145.6	6110.8	6042.2	6076.0	5903.9	5814.2	5696.0	5586.2	4253.0	2975.7	1971.8
57.5°	8429.9	8443.7	8248.4	8143.9	7853.6	7490.5	7198.1	6914.1	4614.0	2876.5	1691.1
60°	10813.5	10634.0	10386.0	10008.1	9634.4	9095.0	8574.6	8082.7	4973.9	2773.0	1358.5
62.5°	11854.3	11598.8	11224.1	10735.4	10148.5	9488.7	8840.6	8241.0	4799.8	2438.4	988.0
65°	11643.2	11252.6	10838.8	10266.7	9553.1	8830.0	8073.2	7460.9	4015.5	1818.8	609.1
67.5°	10539.0	10207.6	9770.5	9091.8	8328.6	7576.0	6882.5	6196.3	2983.1	1133.7	341.0
70°	8895.5	8571.4	8128.0	7433.5	6671.3	5951.4	5216.7	4657.3	1901.1	546.8	246.0
72.5°	6171.0	5908.1	5594.6	5099.6	4431.4	3776.9	3279.7	2850.1	1053.5	290.3	224.8
75°	2506.0	2507.0	2450.0	2241.0	1893.7	1633.0	1392.3	1181.2	440.2	247.0	221.7
77.5°	567.9	577.4	631.2	598.5	539.4	504.6	451.8	399.0	268.1	254.4	223.8
80°	287.1	288.2	285.0	286.1	282.9	284.0	279.7	276.6	251.2	261.8	223.8
82.5°	239.6	244.9	243.8	243.8	244.9	244.9	244.9	243.8	260.7	275.5	216.4
85°	190.0	200.6	209.0	217.5	227.0	233.3	236.5	239.6	253.3	271.3	196.3
87.5°	143.6	156.2	166.8	175.2	190.0	190.0	200.6	208.0	208.0	212.2	103.4
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: P159354

CATALOG NUMBER: VST-F07-LED-E-U-T2-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1515.8	1515.8	1515.8	1515.8	1515.8
2.5°	1464.1	1459.9	1455.7	1453.5	1449.3
5°	1453.5	1445.1	1439.8	1439.8	1435.6
7.5°	1484.2	1481.0	1473.6	1469.4	1473.6
10°	1549.6	1544.3	1535.9	1529.6	1532.7
12.5°	1637.2	1616.1	1599.2	1591.8	1586.6
15°	1728.0	1685.8	1652.0	1633.0	1627.7
17.5°	1825.1	1751.2	1700.6	1672.1	1666.8
20°	1924.3	1832.5	1760.7	1723.8	1722.7
22.5°	2043.6	1921.2	1829.3	1780.8	1777.6
25°	2169.2	2000.3	1879.0	1816.7	1810.3
27.5°	2278.0	2063.7	1909.6	1835.7	1829.3
30°	2368.7	2111.2	1934.9	1849.4	1841.0
32.5°	2434.2	2138.6	1945.5	1853.6	1844.1
35°	2455.3	2128.1	1915.9	1815.6	1805.1
37.5°	2426.8	2059.5	1833.6	1722.7	1710.1
40°	2341.3	1939.1	1699.5	1585.5	1569.7
42.5°	2210.4	1791.3	1538.0	1429.3	1409.2
45°	2048.9	1624.6	1377.5	1256.2	1246.7
47.5°	1880.0	1449.3	1197.0	1087.3	1075.6
50°	1697.4	1246.7	1020.8	901.5	901.5
52.5°	1479.9	1049.3	816.0	726.2	718.9
55°	1229.8	826.5	650.2	581.6	572.1
57.5°	960.6	635.5	519.4	479.2	468.7
60°	706.2	477.1	418.0	395.8	391.6
62.5°	479.2	363.1	336.7	327.2	326.2
65°	324.1	282.9	275.5	272.3	273.4
67.5°	249.1	235.4	232.2	231.2	231.2
70°	216.4	208.0	204.8	205.8	204.8
72.5°	203.7	192.1	193.2	195.3	194.2
75°	199.5	184.7	189.0	190.0	185.8
77.5°	196.3	176.3	186.8	190.0	178.4
80°	190.0	168.9	194.2	195.3	175.2
82.5°	174.2	149.9	194.2	179.5	158.3
85°	147.8	114.0	219.6	156.2	117.2
87.5°	93.9	67.6	148.8	106.6	70.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)