

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: P159353

Luminaire Tested: **VST-F07-LED-E-U-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159353
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-T2-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15054.4 lumens
Efficiency: N/A
Efficacy: 83.4 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

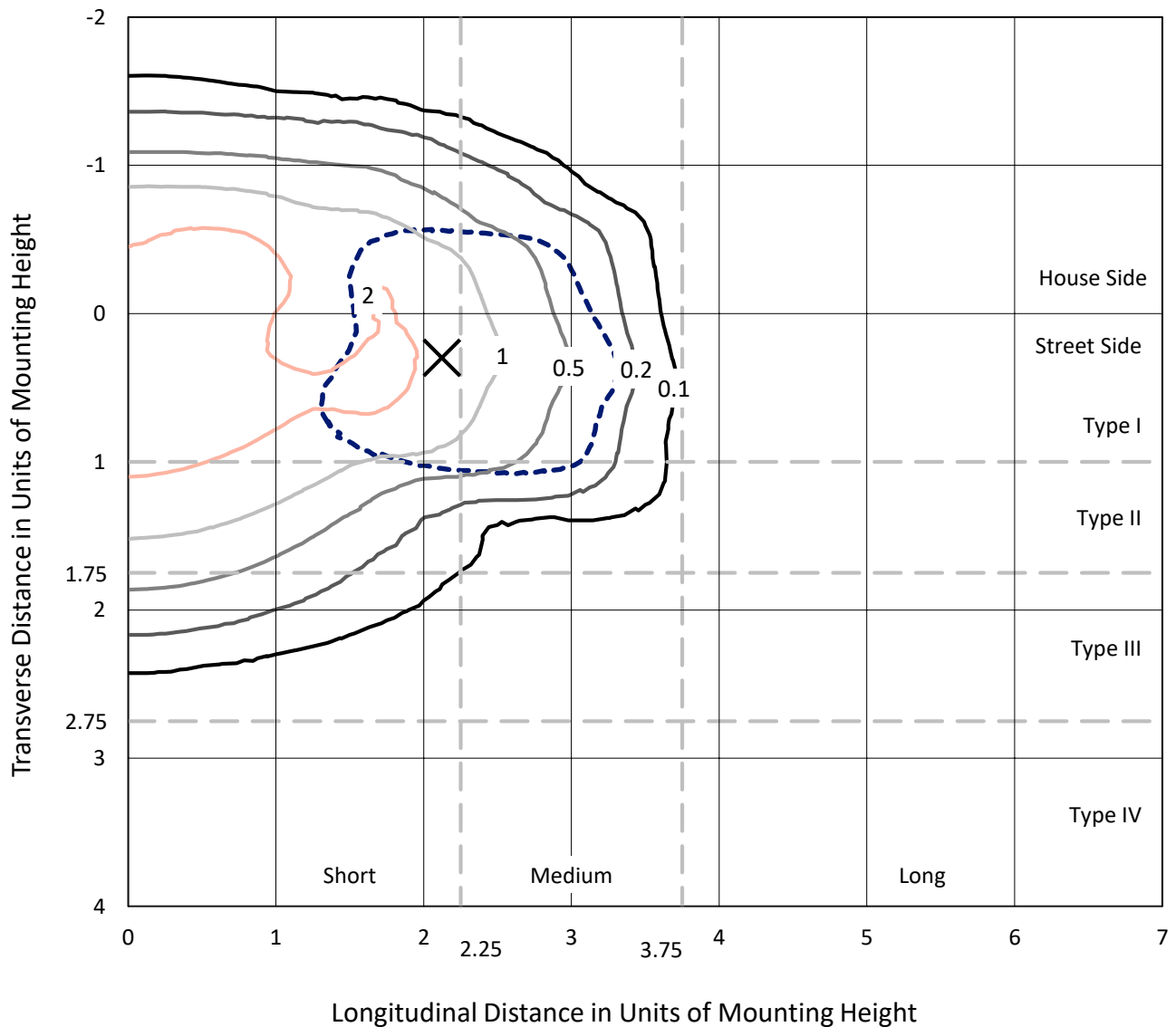
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

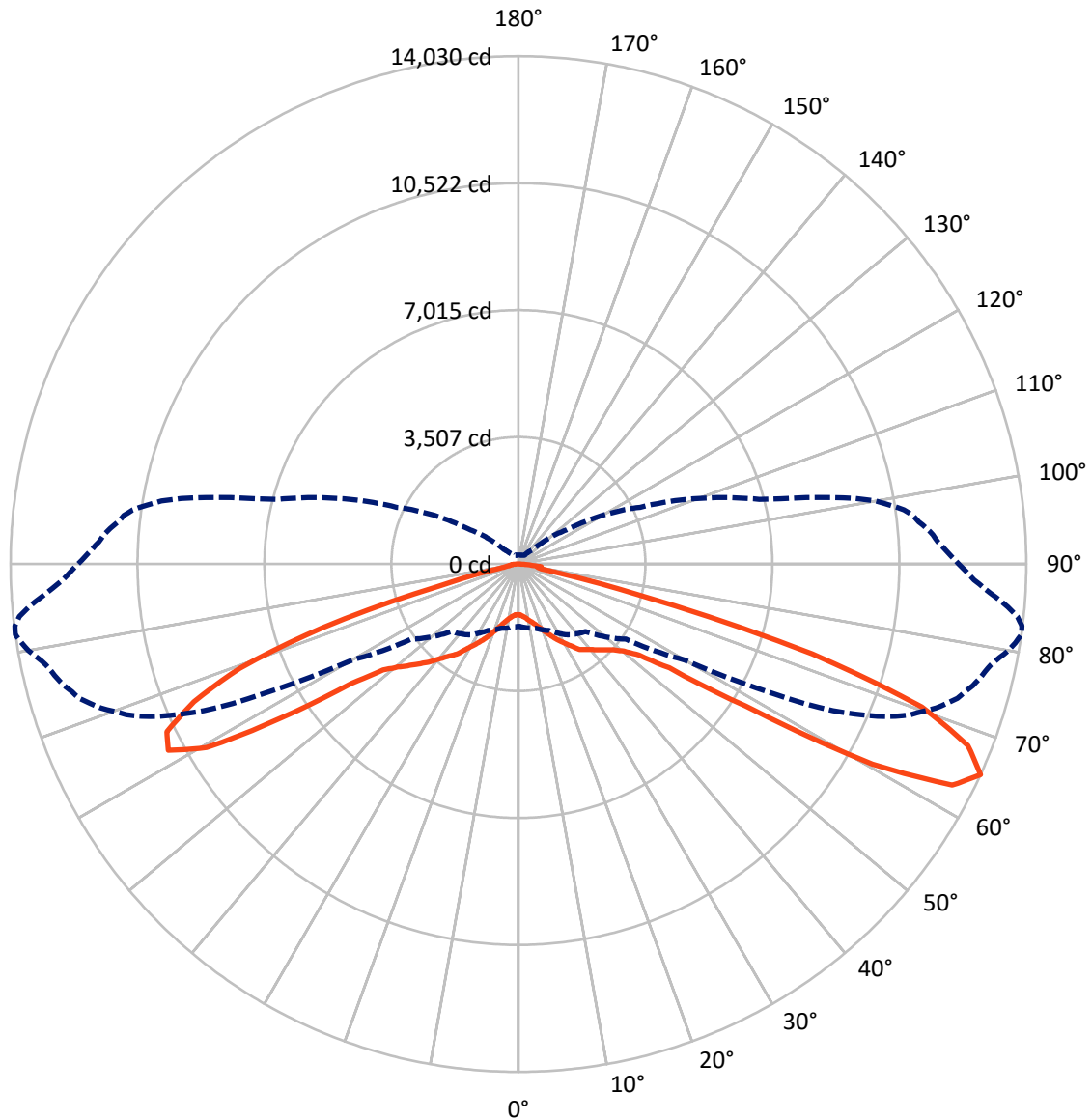
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 82-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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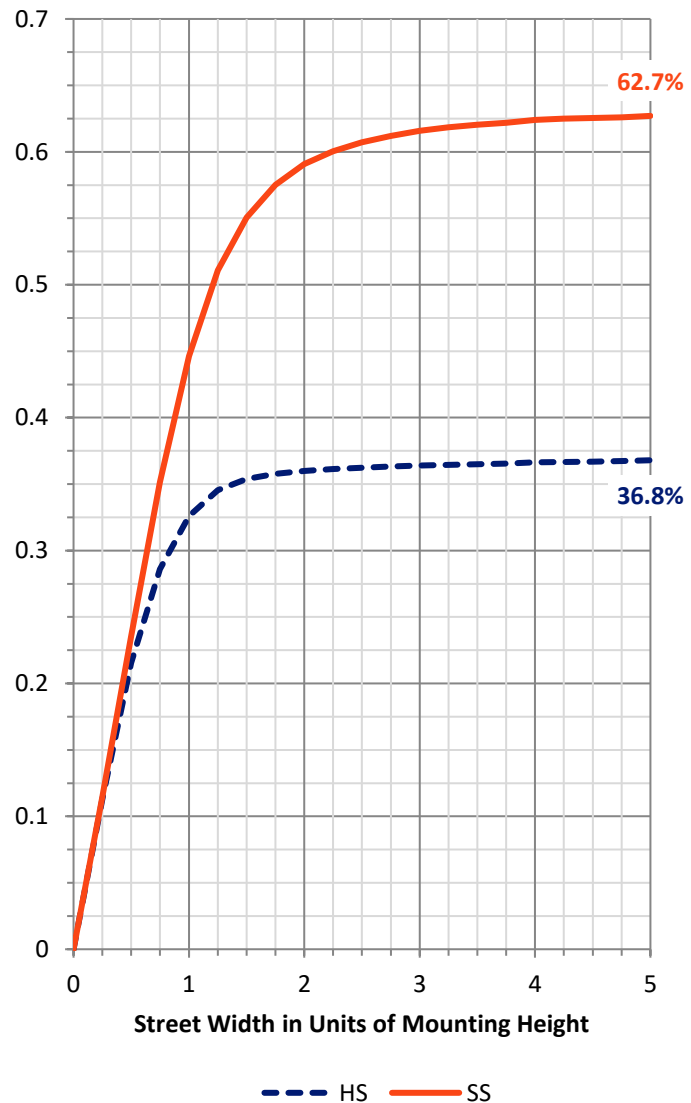
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5605.2	0.0	5605.2
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	9449.1	0.0	9449.1
	% Fixture	62.8	0.0	62.8
Total	Lumens	15054.4	0.0	15054.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	141.8	0.9
10°-20°	498.3	3.3
20°-30°	987.3	6.6
30°-40°	1692.4	11.2
40°-50°	2542.4	16.9
50°-60°	3532.3	23.5
60°-70°	4029.8	26.8
70°-80°	1388.2	9.2
80°-90°	241.9	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°	15054.4	100.0
0°-180°	15054.4	100.0



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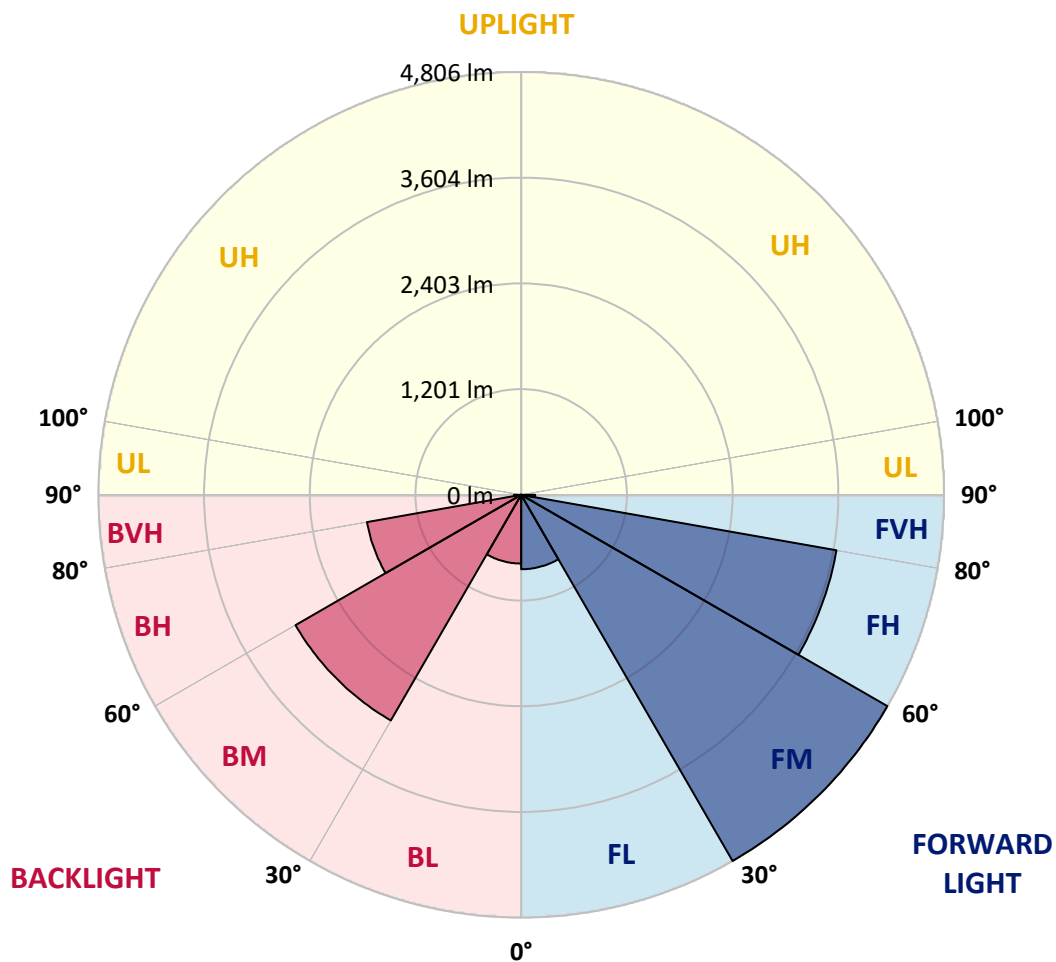
CATALOG NUMBER: VST-F07-LED-E-U-T2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	845.7	5.6			
FM	(30°-60°)	4805.7	31.9			
FH	(60°-80°)	3638.5	24.2			G2/5000
FVH	(80°-90°)	159.3	1.1			G2/225
BL	(0°-30°)	781.6	5.2	B2/1000		
BM	(30°-60°)	2961.4	19.7	B3/5000		
BH	(60°-80°)	1779.5	11.8	B3/2500		G3/2500
BVH	(80°-90°)	82.7	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°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7
2.5°	1476.8	1477.8	1476.8	1473.9	1472.9	1464.1	1454.4	1449.5	1448.5	1444.6	1445.6
5°	1568.5	1565.6	1561.7	1556.8	1551.9	1537.3	1520.7	1511.9	1509.0	1506.1	1502.2
7.5°	1650.4	1652.4	1650.4	1643.6	1630.9	1612.4	1590.9	1577.3	1576.3	1573.4	1570.4
10°	1755.8	1760.7	1748.9	1737.2	1719.7	1691.4	1667.0	1649.5	1646.5	1642.6	1640.7
12.5°	1869.9	1870.9	1867.0	1840.6	1811.4	1772.4	1737.2	1719.7	1715.8	1710.9	1709.0
15°	1991.8	1992.8	1971.3	1946.0	1901.1	1854.3	1805.5	1786.0	1781.1	1782.1	1774.3
17.5°	2088.4	2090.3	2069.9	2037.7	1984.0	1928.4	1875.8	1860.1	1857.2	1858.2	1854.3
20°	2130.3	2133.3	2120.6	2096.2	2045.5	1996.7	1958.7	1948.9	1947.9	1946.0	1953.8
22.5°	2128.4	2129.4	2124.5	2114.7	2084.5	2056.2	2051.3	2057.2	2056.2	2058.2	2065.0
25°	2110.8	2113.8	2112.8	2116.7	2111.8	2122.5	2145.0	2165.5	2168.4	2172.3	2185.0
27.5°	2155.7	2161.6	2154.7	2158.6	2166.4	2202.5	2248.4	2279.6	2285.4	2296.2	2306.9
30°	2331.3	2323.5	2314.7	2304.9	2309.8	2332.3	2384.0	2411.3	2414.2	2422.0	2436.6
32.5°	2591.7	2582.9	2575.1	2559.5	2555.6	2545.9	2563.4	2570.3	2569.3	2577.1	2581.0
35°	2885.3	2886.3	2884.3	2896.1	2905.8	2856.1	2794.6	2778.0	2784.9	2776.1	2778.0
37.5°	3136.0	3138.9	3190.6	3255.0	3273.5	3242.3	3107.7	3041.4	3019.0	3016.0	2993.6
40°	3414.0	3414.0	3492.0	3571.0	3622.7	3661.8	3501.8	3384.7	3336.9	3323.3	3267.7
42.5°	3719.3	3703.7	3774.9	3861.7	3957.3	4046.1	3963.2	3831.5	3763.2	3738.8	3641.3
45°	3970.0	3960.2	3995.4	4076.3	4231.4	4405.0	4416.7	4349.4	4308.5	4257.8	4168.0
47.5°	4124.1	4119.2	4139.7	4227.5	4421.6	4702.5	4859.6	4893.7	4869.3	4830.3	4743.5
50°	4184.6	4177.8	4192.4	4289.9	4507.5	4878.1	5225.4	5386.3	5398.0	5406.8	5379.5
52.5°	4163.1	4154.4	4184.6	4266.5	4492.8	4939.6	5511.2	5820.4	5872.1	5916.0	6005.7
55°	3957.3	3943.7	4025.6	4179.7	4429.4	4917.1	5719.9	6237.9	6347.1	6464.2	6663.2
57.5°	3642.3	3630.5	3748.6	3960.2	4317.3	4855.7	5860.4	6765.6	7011.4	7222.1	7786.9
60°	3338.9	3329.1	3398.4	3603.2	3953.4	4556.2	5686.8	6943.1	7355.7	7810.3	8841.3
62.5°	2796.6	2770.2	2862.9	3035.5	3257.0	3769.1	4928.8	6548.1	7184.0	7852.2	9250.0
65°	1718.7	1756.7	1836.7	2027.9	2390.8	2634.6	3619.8	5297.6	6136.4	6974.3	8787.6
67.5°	1091.5	1102.2	1161.7	1294.4	1575.3	1820.2	2193.7	3324.3	3971.0	4795.2	6899.2
70°	935.4	942.3	993.0	1131.5	1325.6	1627.0	1660.2	1736.3	1968.4	2493.2	4055.8
72.5°	737.4	749.1	789.1	909.1	1143.2	1467.0	2049.4	1372.4	1325.6	1369.5	1979.1
75°	438.9	452.6	485.8	551.1	734.5	1121.7	2146.9	1596.8	1488.5	1403.6	1365.6
77.5°	232.2	222.4	244.8	282.9	377.5	597.9	1613.4	1956.7	1880.6	1779.2	1563.6
80°	115.1	119.0	125.8	133.6	168.7	242.9	806.7	2024.0	2243.5	2341.0	2149.8
82.5°	45.8	51.7	73.2	78.0	92.7	103.4	259.5	1121.7	1606.5	2179.1	2845.3
85°	23.4	22.4	39.0	46.8	54.6	48.8	91.7	418.5	753.0	1173.4	1901.1
87.5°	2.9	3.9	8.8	11.7	16.6	15.6	26.3	90.7	144.4	204.8	287.8
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7
2.5°	1440.7	1439.7	1439.7	1435.8	1435.8	1436.8	1433.9	1431.9	1431.9	1432.9	1429.0
5°	1499.2	1496.3	1496.3	1492.4	1487.5	1487.5	1483.6	1482.7	1480.7	1476.8	1473.9
7.5°	1567.5	1564.6	1559.7	1556.8	1554.8	1551.9	1547.0	1545.1	1541.2	1537.3	1533.4
10°	1637.7	1633.8	1631.9	1627.0	1625.1	1619.2	1616.3	1617.3	1609.5	1606.5	1607.5
12.5°	1708.0	1704.1	1697.2	1695.3	1694.3	1688.5	1685.5	1683.6	1677.7	1676.8	1673.8
15°	1770.4	1772.4	1769.4	1764.6	1760.7	1759.7	1756.7	1754.8	1750.9	1747.0	1743.1
17.5°	1851.4	1854.3	1850.4	1843.6	1843.6	1842.6	1843.6	1842.6	1835.8	1838.7	1836.7
20°	1954.8	1956.7	1947.0	1949.9	1951.8	1950.9	1953.8	1956.7	1954.8	1954.8	1957.7
22.5°	2073.8	2076.7	2070.8	2074.7	2080.6	2075.7	2084.5	2083.5	2085.5	2088.4	2089.4
25°	2195.7	2201.5	2196.7	2207.4	2203.5	2207.4	2218.1	2215.2	2220.1	2227.9	2230.8
27.5°	2317.6	2321.5	2322.5	2329.3	2336.2	2342.0	2355.7	2355.7	2359.6	2373.2	2373.2
30°	2445.4	2449.3	2453.2	2463.0	2466.9	2477.6	2491.2	2495.1	2493.2	2512.7	2518.6
32.5°	2592.7	2596.6	2603.4	2615.1	2620.0	2630.7	2630.7	2641.5	2649.3	2665.8	2666.8
35°	2788.8	2791.7	2788.8	2787.8	2794.6	2809.2	2810.2	2825.8	2832.6	2849.2	2854.1
37.5°	2984.8	2983.8	2971.2	2957.5	2958.5	2952.6	2948.7	2955.6	2958.5	2959.5	2970.2
40°	3249.2	3223.8	3204.3	3170.1	3154.5	3130.2	3115.5	3114.5	3098.9	3097.0	3099.9
42.5°	3595.4	3566.2	3520.3	3462.8	3418.9	3374.0	3340.8	3321.3	3287.2	3269.6	3255.0
45°	4079.2	4007.1	3952.4	3884.2	3799.3	3721.3	3639.3	3602.3	3536.9	3496.9	3452.0
47.5°	4670.4	4599.2	4515.3	4445.0	4333.8	4225.6	4113.4	4014.9	3900.7	3810.0	3735.9
50°	5312.2	5270.2	5209.8	5144.4	5001.0	4929.8	4788.4	4654.8	4531.8	4369.9	4228.5
52.5°	5970.6	5995.0	5981.3	5957.9	5867.2	5839.9	5718.0	5555.1	5431.2	5320.0	5074.2
55°	6782.2	6811.4	6870.0	6904.1	6893.4	6962.6	6932.4	6805.6	6755.8	6704.1	6529.5
57.5°	8023.9	8232.6	8456.0	8652.1	8697.9	8943.7	8891.0	9017.8	9107.6	9043.2	8986.6
60°	9347.5	9768.9	10148.4	10545.4	10868.2	11110.1	11430.1	11645.7	11781.2	12025.1	12044.6
62.5°	9881.1	10453.7	10935.5	11395.9	11779.3	12114.8	12403.6	12701.1	12944.9	13165.4	13324.4
65°	9588.5	10186.4	10770.7	11237.9	11606.6	11895.4	12209.5	12445.5	12685.5	12826.9	12993.7
67.5°	7971.2	8763.3	9482.2	10008.9	10513.2	10806.8	11178.4	11410.6	11665.2	11814.4	11921.7
70°	5197.1	6228.1	7210.4	8009.3	8690.1	9032.5	9481.2	9798.2	10104.5	10112.3	10290.8
72.5°	2804.4	3666.6	4488.9	5305.4	6081.8	6537.3	6980.2	7365.5	7669.8	7540.1	7717.6
75°	1561.7	1965.5	2415.2	2905.8	3378.9	3639.3	3970.0	3972.0	4129.0	3882.2	3944.6
77.5°	1502.2	1483.6	1490.5	1504.1	1527.5	1477.8	1476.8	1446.6	1399.7	1314.9	1329.5
80°	1973.3	1737.2	1567.5	1301.2	1047.6	854.5	800.8	813.5	851.6	927.6	1024.2
82.5°	2853.1	2654.1	2369.3	1949.9	1530.4	1180.3	969.6	860.3	855.5	931.5	1077.8
85°	2077.7	2197.6	2179.1	1819.2	1500.2	1218.3	886.7	749.1	620.4	590.1	641.8
87.5°	306.3	253.6	285.8	239.0	173.6	134.6	118.0	94.6	90.7	92.7	101.4
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7
2.5°	1430.0	1426.1	1422.2	1425.1	1422.2	1421.2	1418.3	1416.3	1415.3	1415.3	1415.3
5°	1473.9	1469.0	1466.1	1465.1	1462.2	1459.2	1458.3	1453.4	1452.4	1452.4	1449.5
7.5°	1533.4	1529.5	1524.6	1521.7	1519.7	1514.8	1510.0	1509.0	1508.0	1504.1	1501.2
10°	1602.6	1596.8	1590.9	1590.9	1587.0	1586.0	1581.2	1574.3	1573.4	1567.5	1565.6
12.5°	1668.0	1666.0	1659.2	1657.3	1654.3	1651.4	1648.5	1645.6	1642.6	1637.7	1639.7
15°	1746.0	1741.1	1735.3	1736.3	1735.3	1731.4	1727.5	1724.6	1722.6	1720.7	1720.7
17.5°	1839.7	1837.7	1836.7	1831.9	1828.0	1830.9	1830.9	1830.9	1826.0	1827.0	1828.0
20°	1958.7	1960.6	1958.7	1954.8	1953.8	1956.7	1949.9	1960.6	1954.8	1950.9	1952.8
22.5°	2090.3	2097.2	2089.4	2090.3	2095.2	2097.2	2090.3	2099.1	2096.2	2090.3	2095.2
25°	2233.7	2238.6	2234.7	2233.7	2236.7	2243.5	2242.5	2241.5	2248.4	2242.5	2245.4
27.5°	2381.0	2384.0	2385.9	2388.8	2390.8	2389.8	2393.7	2393.7	2397.6	2390.8	2393.7
30°	2527.3	2527.3	2531.2	2535.1	2535.1	2535.1	2542.9	2543.9	2538.1	2540.0	2533.2
32.5°	2683.4	2684.4	2688.3	2688.3	2696.1	2697.1	2705.8	2694.1	2705.8	2696.1	2698.0
35°	2866.8	2879.5	2881.4	2891.2	2899.0	2901.9	2901.9	2902.9	2913.6	2905.8	2908.7
37.5°	2974.1	2977.0	2984.8	2989.7	2989.7	2993.6	2996.5	2993.6	2996.5	2995.5	2998.5
40°	3100.9	3098.0	3106.7	3108.7	3104.8	3109.7	3108.7	3105.8	3113.6	3107.7	3111.6
42.5°	3255.0	3238.4	3237.5	3245.3	3237.5	3241.4	3240.4	3233.5	3243.3	3246.2	3243.3
45°	3419.9	3411.1	3393.5	3393.5	3385.7	3382.8	3383.8	3382.8	3383.8	3395.5	3399.4
47.5°	3688.1	3634.5	3604.2	3575.9	3552.5	3551.5	3540.8	3546.7	3554.5	3574.0	3591.5
50°	4137.8	4013.9	3937.8	3867.6	3816.9	3799.3	3778.8	3776.9	3783.7	3806.1	3836.4
52.5°	4939.6	4767.9	4606.0	4455.8	4325.1	4224.6	4174.8	4148.5	4138.7	4161.2	4190.4
55°	6406.6	6082.8	5854.5	5702.4	5377.5	5240.0	5063.5	4982.5	4903.5	4911.3	4961.0
57.5°	8913.5	8738.9	8547.7	8281.4	8082.4	7842.5	7401.6	7155.8	7166.5	7224.0	7044.6
60°	12198.7	12022.2	11943.2	11701.3	11562.7	11466.2	11232.1	10824.3	10680.0	10652.7	10323.0
62.5°	13446.3	13488.2	13550.7	13619.0	13615.0	13657.0	13452.2	13319.5	13152.7	12936.1	12610.4
65°	13120.5	13226.8	13353.6	13537.0	13745.8	13899.9	14029.6	14014.0	13857.9	13569.2	13224.9
67.5°	12017.3	12122.6	12215.3	12461.1	12803.5	13116.6	13393.6	13581.9	13477.5	13238.5	12836.7
70°	10359.1	10435.1	10493.7	10707.3	11082.8	11465.2	11827.1	12143.1	12110.9	11821.2	11500.3
72.5°	7505.9	7690.3	7789.8	7775.2	8007.3	8435.5	8486.2	8756.4	8831.5	8519.4	8008.3
75°	3656.9	3659.8	3544.7	3506.7	3518.4	3592.5	3451.1	3459.8	3411.1	3189.7	3007.2
77.5°	1277.8	1242.7	1158.8	1059.3	916.9	783.3	647.7	589.2	569.7	512.1	472.1
80°	1101.3	1153.0	1136.4	1054.4	904.2	720.8	538.4	399.0	340.4	319.9	300.4
82.5°	1250.5	1449.5	1576.3	1569.5	1363.7	1024.2	638.9	366.8	261.4	229.2	210.7
85°	697.4	750.1	764.7	696.5	578.4	395.0	220.4	155.1	131.7	120.0	108.3
87.5°	111.2	101.4	99.5	86.8	81.9	75.1	66.3	62.4	57.6	54.6	54.6
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-F07-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7
2.5°	1414.4	1413.4	1410.5	1407.5	1405.6	1404.6	1403.6	1401.7	1400.7	1399.7	1397.8
5°	1447.5	1445.6	1440.7	1435.8	1433.9	1431.0	1428.0	1426.1	1424.1	1423.2	1419.3
7.5°	1499.2	1497.3	1491.4	1487.5	1486.6	1478.8	1477.8	1474.8	1470.0	1469.0	1463.1
10°	1561.7	1560.7	1555.8	1552.9	1550.9	1547.0	1541.2	1536.3	1531.4	1531.4	1527.5
12.5°	1633.8	1629.9	1632.9	1626.0	1624.1	1620.2	1617.3	1616.3	1610.4	1605.6	1604.6
15°	1718.7	1713.8	1713.8	1711.9	1709.9	1706.0	1705.1	1706.0	1700.2	1702.1	1696.3
17.5°	1824.1	1826.0	1825.0	1825.0	1820.2	1820.2	1812.3	1822.1	1815.3	1820.2	1818.2
20°	1955.7	1956.7	1954.8	1957.7	1959.6	1958.7	1957.7	1956.7	1959.6	1963.5	1960.6
22.5°	2096.2	2096.2	2095.2	2106.0	2094.2	2103.0	2106.0	2100.1	2115.7	2113.8	2116.7
25°	2248.4	2248.4	2256.2	2264.9	2266.9	2260.1	2264.0	2259.1	2268.8	2276.7	2278.6
27.5°	2389.8	2402.5	2408.3	2402.5	2407.4	2418.1	2417.1	2417.1	2423.9	2422.0	2440.5
30°	2535.1	2542.9	2550.7	2546.8	2548.8	2562.5	2563.4	2564.4	2573.2	2585.9	2599.5
32.5°	2701.0	2708.8	2704.9	2717.5	2716.6	2733.2	2736.1	2739.0	2766.3	2761.4	2789.7
35°	2904.8	2912.6	2908.7	2922.4	2920.4	2926.3	2937.0	2948.7	2953.6	2981.9	3004.3
37.5°	3000.4	3000.4	3009.2	3024.8	3030.7	3040.4	3057.0	3071.6	3096.0	3126.3	3161.4
40°	3115.5	3118.4	3130.2	3146.7	3157.5	3179.9	3210.1	3230.6	3267.7	3300.9	3341.8
42.5°	3255.0	3267.7	3281.3	3303.8	3327.2	3362.3	3405.2	3431.6	3480.3	3523.3	3574.0
45°	3417.9	3430.6	3462.8	3503.7	3537.9	3576.9	3612.0	3674.4	3718.3	3763.2	3807.1
47.5°	3614.9	3652.0	3678.3	3727.1	3769.1	3820.8	3864.7	3923.2	3971.0	4025.6	4062.7
50°	3867.6	3913.4	3947.6	4011.0	4051.9	4109.5	4165.1	4209.0	4257.8	4311.4	4341.6
52.5°	4230.4	4277.3	4320.2	4399.2	4449.9	4488.9	4563.1	4617.7	4662.6	4701.6	4734.7
55°	5016.6	5003.0	5122.0	5275.1	5292.7	5434.1	5460.5	5506.3	5589.2	5600.9	5693.6
57.5°	7263.1	7192.8	7365.5	7589.8	7550.8	7479.6	7777.1	7795.6	7753.7	7865.9	7739.1
60°	10371.7	10248.8	10295.7	10357.1	10268.3	10226.4	10241.0	10283.0	10242.0	10197.1	10074.2
62.5°	12447.5	12258.2	12122.6	12008.5	11864.2	11759.8	11642.7	11498.4	11459.3	11295.5	11157.9
65°	12890.3	12595.7	12381.1	12165.6	11966.6	11782.2	11605.7	11481.8	11317.9	11123.8	10980.4
67.5°	12403.6	12038.8	11724.7	11411.6	11186.2	10915.1	10782.4	10580.5	10378.6	10156.2	10024.5
70°	10989.2	10608.8	10213.7	9907.4	9601.2	9265.6	9200.3	8961.3	8845.2	8541.8	8489.2
72.5°	7584.9	7331.3	7154.8	6776.3	6590.0	6418.3	6363.7	6142.3	6165.7	5833.1	5954.0
75°	2697.1	2661.0	2609.3	2395.7	2357.6	2291.3	2273.7	2258.1	2416.1	2196.7	2355.7
77.5°	463.3	460.4	434.1	421.4	445.8	430.2	434.1	426.3	472.1	478.9	468.2
80°	287.8	279.9	271.2	265.3	266.3	260.4	261.4	263.4	266.3	265.3	268.2
82.5°	197.0	190.2	186.3	182.4	188.3	190.2	195.1	200.0	207.8	212.6	218.5
85°	107.3	98.5	98.5	97.5	105.3	111.2	119.0	128.8	142.4	154.1	166.8
87.5°	54.6	52.7	53.6	55.6	62.4	67.3	77.1	85.8	97.5	110.2	121.9
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-T2-8030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7	1400.7
2.5°	1396.8	1396.8	1395.8	1395.8	1394.9	1393.9	1392.9	1390.0	1379.3	1369.5	1362.7
5°	1418.3	1415.3	1414.4	1411.4	1410.5	1408.5	1405.6	1402.7	1383.2	1365.6	1352.9
7.5°	1462.2	1458.3	1456.3	1453.4	1450.5	1446.6	1442.7	1439.7	1416.3	1395.8	1380.2
10°	1519.7	1517.8	1516.8	1512.9	1512.9	1507.0	1506.1	1499.2	1473.9	1455.3	1441.7
12.5°	1599.7	1595.8	1594.8	1590.0	1591.9	1590.0	1588.0	1584.1	1565.6	1544.1	1525.6
15°	1699.2	1699.2	1694.3	1690.4	1691.4	1689.4	1693.3	1688.5	1676.8	1657.3	1627.0
17.5°	1819.2	1817.2	1819.2	1816.3	1818.2	1820.2	1815.3	1816.3	1810.4	1786.0	1741.1
20°	1958.7	1955.7	1967.4	1962.6	1973.3	1963.5	1965.5	1968.4	1968.4	1936.2	1875.8
22.5°	2118.6	2116.7	2116.7	2126.4	2130.3	2131.3	2135.2	2138.1	2145.9	2105.0	2008.4
25°	2278.6	2285.4	2286.4	2299.1	2304.9	2304.9	2307.9	2318.6	2342.0	2285.4	2160.6
27.5°	2441.5	2458.1	2462.0	2470.8	2479.5	2488.3	2495.1	2503.0	2541.0	2479.5	2316.6
30°	2604.4	2622.9	2636.6	2646.3	2657.1	2678.5	2682.4	2698.0	2761.4	2686.3	2464.9
32.5°	2795.6	2821.9	2839.5	2852.2	2868.7	2889.2	2900.9	2920.4	2981.9	2859.0	2573.2
35°	3023.8	3039.4	3064.8	3086.3	3096.0	3131.1	3149.7	3154.5	3201.4	3008.2	2653.2
37.5°	3181.9	3208.2	3252.1	3282.3	3299.9	3319.4	3350.6	3371.1	3416.0	3143.8	2693.2
40°	3382.8	3422.8	3457.9	3502.8	3531.1	3545.7	3576.9	3593.5	3599.3	3259.9	2680.5
42.5°	3627.6	3663.7	3710.5	3746.6	3768.1	3784.7	3810.0	3816.9	3740.8	3314.5	2612.2
45°	3857.8	3913.4	3953.4	3979.8	3995.4	4004.1	4019.7	4020.7	3857.8	3287.2	2495.1
47.5°	4105.6	4145.6	4182.6	4201.2	4199.2	4201.2	4195.3	4191.4	3916.4	3192.6	2344.9
50°	4379.7	4406.0	4421.6	4430.4	4435.3	4416.7	4390.4	4372.9	3921.2	3058.0	2192.8
52.5°	4747.4	4780.6	4777.7	4776.7	4737.7	4720.1	4649.9	4613.8	3892.9	2900.0	2021.1
55°	5679.0	5646.8	5583.4	5614.6	5455.6	5372.7	5263.4	5162.0	3930.0	2749.7	1822.1
57.5°	7789.8	7802.5	7622.0	7525.4	7257.2	6921.6	6651.5	6389.1	4263.6	2658.0	1562.6
60°	9992.3	9826.5	9597.3	9248.0	8902.7	8404.3	7923.4	7468.9	4596.2	2562.5	1255.4
62.5°	10954.1	10718.0	10371.7	9920.1	9377.8	8768.1	8169.2	7615.2	4435.3	2253.2	913.0
65°	10759.0	10398.1	10015.7	9487.0	8827.6	8159.5	7460.1	6894.3	3710.5	1680.7	562.8
67.5°	9738.7	9432.4	9028.6	8401.4	7696.1	7000.7	6359.8	5725.8	2756.6	1047.6	315.1
70°	8219.9	7920.5	7510.8	6869.0	6164.7	5499.5	4820.6	4303.6	1756.7	505.3	227.3
72.5°	5702.4	5459.5	5169.8	4712.3	4094.9	3490.1	3030.7	2633.7	973.5	268.2	207.8
75°	2315.7	2316.6	2264.0	2070.8	1749.9	1509.0	1286.6	1091.5	406.8	228.3	204.8
77.5°	524.8	533.6	583.3	553.1	498.4	466.3	417.5	368.7	247.8	235.1	206.8
80°	265.3	266.3	263.4	264.3	261.4	262.4	258.5	255.6	232.2	241.9	206.8
82.5°	221.4	226.3	225.3	225.3	226.3	226.3	226.3	225.3	240.9	254.6	200.0
85°	175.6	185.3	193.1	200.9	209.7	215.6	218.5	221.4	234.1	250.7	181.4
87.5°	132.7	144.4	154.1	161.9	175.6	175.6	185.3	192.2	192.2	196.1	95.6
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: P159353

CATALOG NUMBER: VST-F07-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1400.7	1400.7	1400.7	1400.7	1400.7
2.5°	1352.9	1349.0	1345.1	1343.2	1339.3
5°	1343.2	1335.4	1330.5	1330.5	1326.6
7.5°	1371.5	1368.5	1361.7	1357.8	1361.7
10°	1431.9	1427.1	1419.3	1413.4	1416.3
12.5°	1512.9	1493.4	1477.8	1470.9	1466.1
15°	1596.8	1557.8	1526.5	1509.0	1504.1
17.5°	1686.5	1618.2	1571.4	1545.1	1540.2
20°	1778.2	1693.3	1627.0	1592.9	1591.9
22.5°	1888.4	1775.3	1690.4	1645.6	1642.6
25°	2004.5	1848.4	1736.3	1678.7	1672.9
27.5°	2105.0	1907.0	1764.6	1696.3	1690.4
30°	2188.9	1950.9	1788.0	1709.0	1701.1
32.5°	2249.3	1976.2	1797.7	1712.9	1704.1
35°	2268.8	1966.5	1770.4	1677.7	1668.0
37.5°	2242.5	1903.1	1694.3	1591.9	1580.2
40°	2163.5	1791.9	1570.4	1465.1	1450.5
42.5°	2042.5	1655.3	1421.2	1320.7	1302.2
45°	1893.3	1501.2	1272.9	1160.8	1152.0
47.5°	1737.2	1339.3	1106.1	1004.7	994.0
50°	1568.5	1152.0	943.2	833.0	833.0
52.5°	1367.6	969.6	754.0	671.1	664.3
55°	1136.4	763.8	600.9	537.5	528.7
57.5°	887.6	587.2	479.9	442.8	433.1
60°	652.6	440.9	386.3	365.8	361.9
62.5°	442.8	335.5	311.2	302.4	301.4
65°	299.5	261.4	254.6	251.7	252.6
67.5°	230.2	217.5	214.6	213.6	213.6
70°	200.0	192.2	189.2	190.2	189.2
72.5°	188.3	177.5	178.5	180.5	179.5
75°	184.4	170.7	174.6	175.6	171.7
77.5°	181.4	162.9	172.7	175.6	164.8
80°	175.6	156.1	179.5	180.5	161.9
82.5°	160.9	138.5	179.5	165.8	146.3
85°	136.6	105.3	202.9	144.4	108.3
87.5°	86.8	62.4	137.5	98.5	65.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)