

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: P159564

Luminaire Tested: **VST-F06-LED-E-U-T3-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159564
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33706)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F06-LED-E-U-T3-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13835.9 lumens
Efficiency: N/A
Efficacy: 88.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

Input Watts (W): 156.5
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

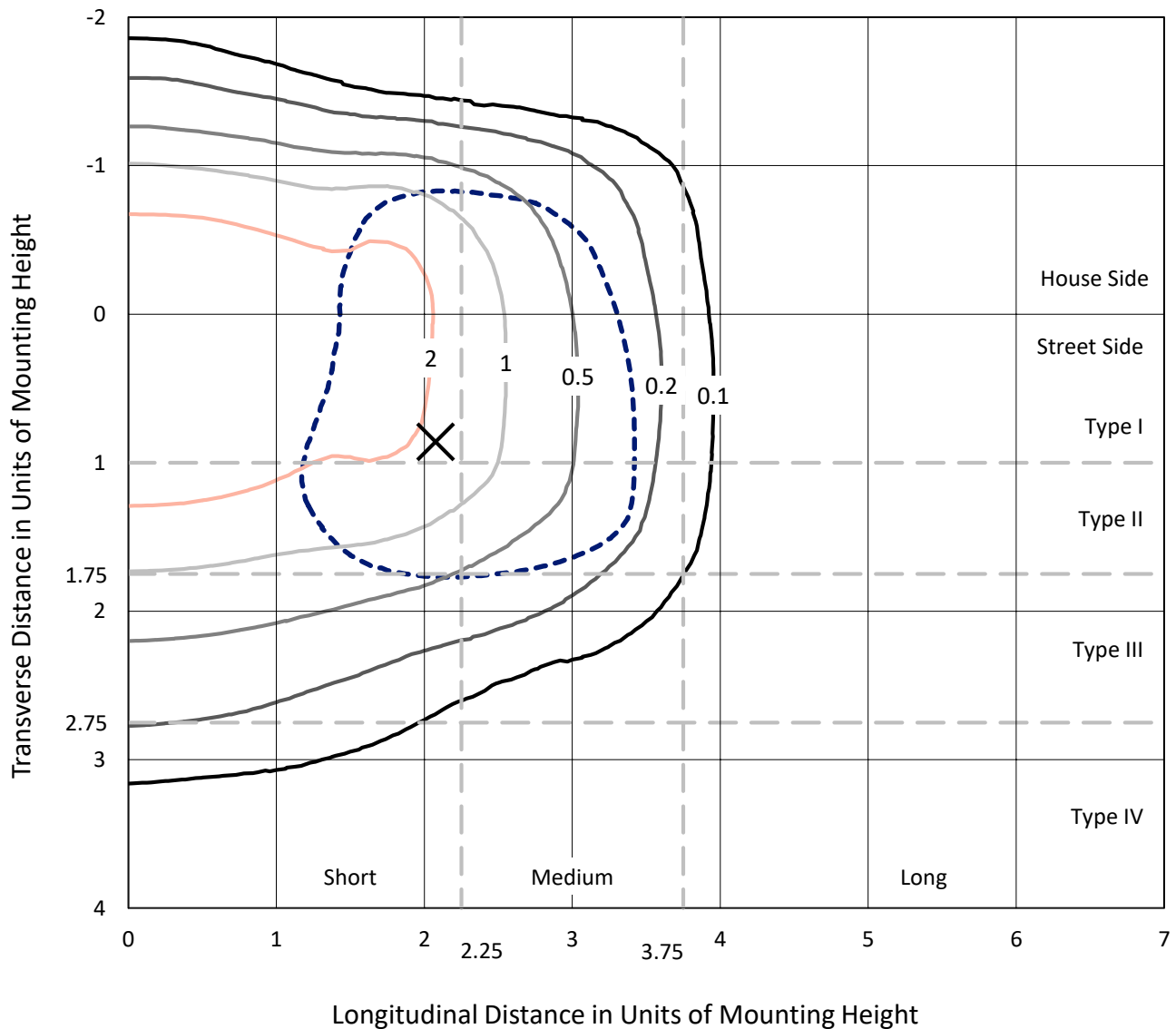


REPORT NUMBER: P159564

CATALOG NUMBER: VST-F06-LED-E-U-T3-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

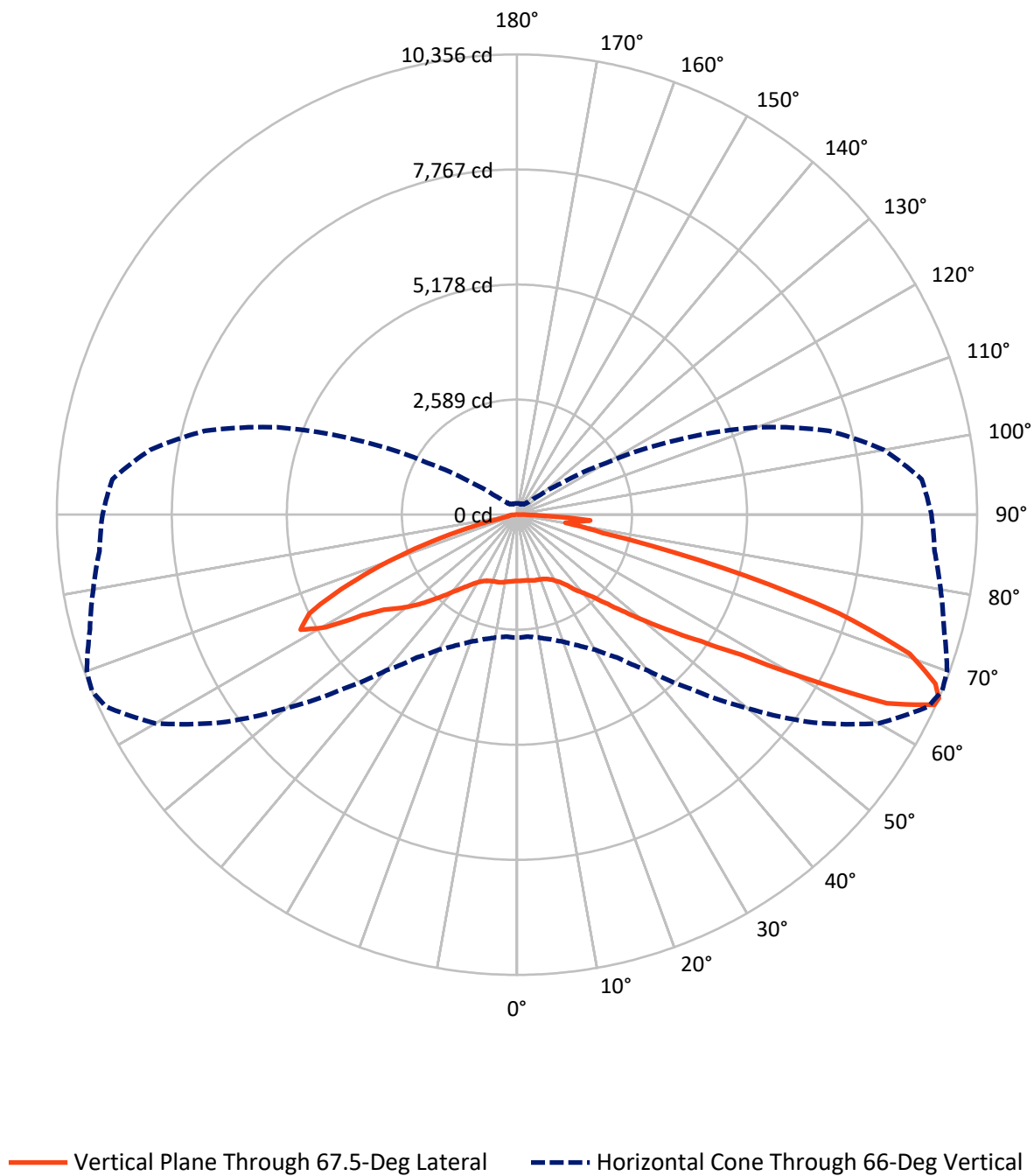


Based on 20 foot mounting height. Maximum calculated value = 3.7 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159564

CATALOG NUMBER: VST-F06-LED-E-U-T3-7030

Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4787.8	0.0	4787.8
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	9048.1	0.0	9048.1
	% Fixture	65.4	0.0	65.4
Total	Lumens	13835.9	0.0	13835.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	143.3	1.0
10°-20°	424.2	3.1
20°-30°	729.2	5.3
30°-40°	1178.5	8.5
40°-50°	1953.1	14.1
50°-60°	3065.3	22.2
60°-70°	4190.8	30.3
70°-80°	1842.9	13.3
80°-90°	308.5	2.2
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°	13835.9	100.0
0°-180°	13835.9	100.0

Coefficient of Utilization



REPORT NUMBER: P159564

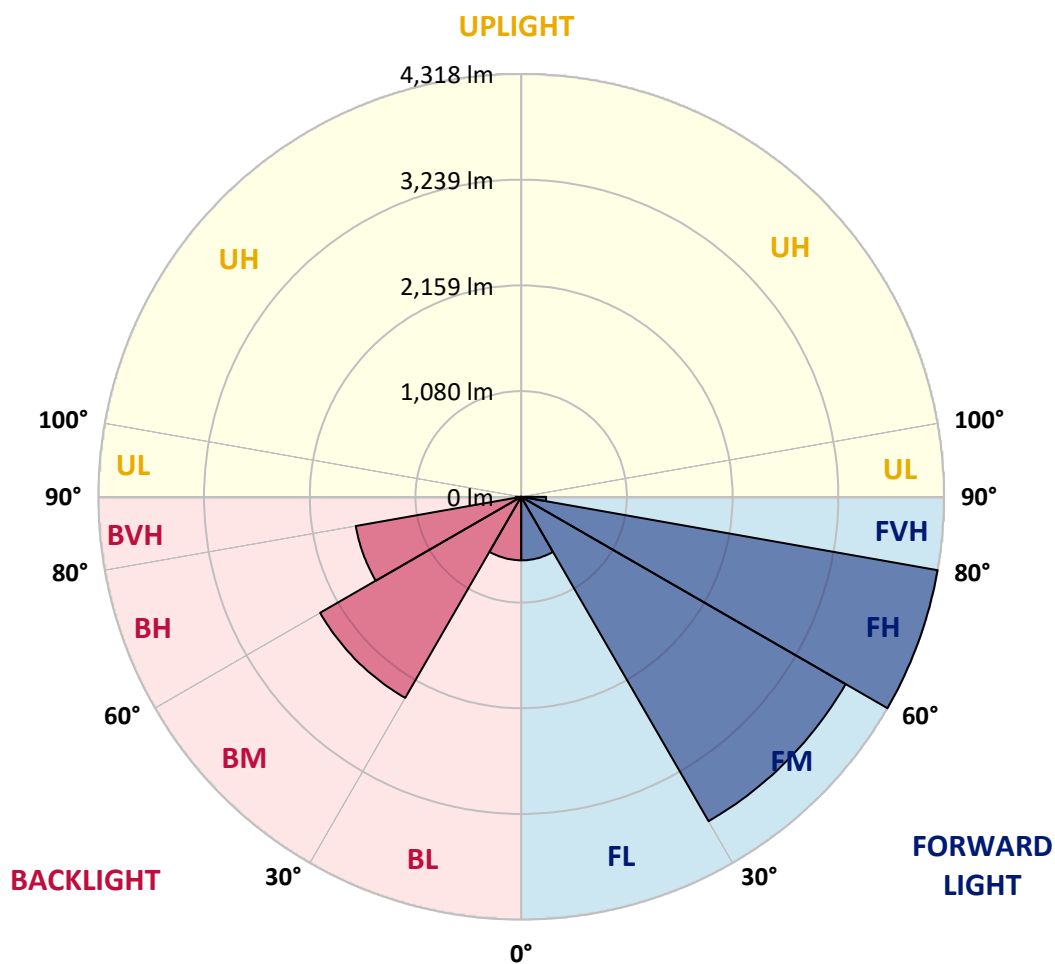
CATALOG NUMBER: VST-F06-LED-E-U-T3-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	649.0	4.7			
FM	(30°-60°)	3826.0	27.7			
FH	(60°-80°)	4318.5	31.2			G2/5000
FVH	(80°-90°)	254.5	1.8			G3/500
BL	(0°-30°)	647.7	4.7	B2/1000		
BM	(30°-60°)	2370.9	17.1	B2/2500		
BH	(60°-80°)	1715.3	12.4	B3/2500		G3/2500
BVH	(80°-90°)	54.0	0.4			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





REPORT NUMBER: P159564

CATALOG NUMBER: VST-F06-LED-E-U-T3-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9
2.5°	1490.2	1490.2	1491.1	1490.2	1490.2	1489.3	1492.9	1492.9	1492.9	1492.0	1494.7
5°	1486.6	1486.6	1487.5	1487.5	1488.4	1487.5	1490.2	1491.1	1491.1	1491.1	1493.8
7.5°	1477.5	1480.2	1478.4	1479.3	1480.2	1483.0	1486.6	1488.4	1490.2	1492.9	1493.8
10°	1458.5	1463.0	1462.1	1464.9	1465.8	1473.9	1476.6	1480.2	1486.6	1490.2	1492.9
12.5°	1432.3	1435.0	1435.9	1439.5	1443.1	1453.1	1460.3	1466.7	1475.7	1484.8	1493.8
15°	1411.5	1413.3	1413.3	1416.9	1422.3	1431.4	1440.4	1451.3	1464.9	1480.2	1494.7
17.5°	1417.8	1422.3	1418.7	1417.8	1419.6	1425.0	1433.2	1442.2	1458.5	1475.7	1492.9
20°	1459.4	1460.3	1458.5	1454.0	1450.4	1451.3	1451.3	1453.1	1463.0	1476.6	1490.2
22.5°	1493.8	1497.4	1496.5	1497.4	1496.5	1500.1	1498.3	1494.7	1491.1	1492.0	1498.3
25°	1523.7	1527.3	1527.3	1530.0	1534.5	1541.8	1547.2	1546.3	1540.9	1533.6	1530.9
27.5°	1572.5	1572.5	1572.5	1575.2	1581.6	1590.6	1599.7	1605.1	1609.6	1602.4	1587.0
30°	1649.4	1650.3	1647.6	1648.5	1653.1	1664.8	1675.7	1683.8	1692.9	1692.0	1672.1
32.5°	1733.6	1737.2	1736.3	1739.9	1746.2	1757.1	1768.9	1781.5	1793.3	1800.5	1787.9
35°	1842.2	1845.8	1846.7	1852.1	1859.3	1875.6	1891.9	1908.2	1920.9	1926.3	1923.6
37.5°	2020.4	2021.3	2017.7	2009.5	2012.3	2024.9	2043.9	2070.2	2078.3	2083.7	2096.4
40°	2287.3	2284.6	2270.1	2262.9	2258.4	2263.8	2260.2	2281.0	2300.0	2300.9	2300.0
42.5°	2611.2	2603.1	2589.5	2587.7	2585.9	2584.1	2574.1	2575.0	2592.2	2596.8	2591.3
45°	2933.3	2923.4	2913.4	2922.5	2911.6	2939.7	2947.8	2969.5	2972.2	2981.3	2967.7
47.5°	3197.5	3198.4	3198.4	3211.1	3232.8	3286.2	3334.2	3375.8	3391.2	3412.9	3415.6
50°	3397.5	3402.9	3420.1	3460.8	3507.0	3596.5	3677.1	3752.2	3820.0	3845.4	3912.3
52.5°	3514.2	3528.7	3564.9	3632.7	3715.1	3830.9	3957.6	4085.1	4202.8	4302.3	4381.9
55°	3493.4	3504.3	3567.6	3673.5	3801.9	3957.6	4134.9	4319.5	4503.2	4671.4	4801.7
57.5°	3359.5	3366.7	3430.1	3549.5	3709.6	3918.7	4169.3	4443.4	4701.3	4972.7	5195.3
60°	3184.0	3194.8	3253.6	3347.7	3515.1	3737.7	4028.1	4400.0	4811.7	5238.7	5655.0
62.5°	3071.8	3069.1	3120.6	3204.8	3330.5	3532.3	3811.9	4252.5	4822.5	5544.6	6367.0
65°	2885.4	2877.2	2930.6	3026.5	3163.2	3358.6	3623.7	4047.1	4708.5	5660.4	6826.7
66°	2769.6	2753.3	2806.7	2903.5	3040.1	3248.2	3502.5	3920.5	4570.1	5547.3	6777.8
67.5°	2566.9	2558.8	2584.1	2660.1	2761.4	2956.9	3222.0	3642.7	4242.6	5207.1	6419.5
70°	2086.5	2068.4	2088.3	2122.6	2161.5	2209.5	2372.4	2706.2	3213.8	4148.5	5171.8
72.5°	1421.4	1412.4	1449.5	1502.0	1606.0	1654.9	1719.1	1773.4	1952.5	2614.8	3607.4
75°	1081.2	1086.7	1133.7	1220.6	1354.5	1499.2	1640.4	1692.0	1632.2	1580.7	2047.5
77.5°	606.2	637.9	694.9	805.3	947.3	1151.8	1397.9	1669.3	1805.1	1771.6	1656.7
80°	249.7	245.2	273.2	333.9	382.7	550.1	841.5	1181.7	1563.5	1805.1	1767.1
82.5°	69.7	71.5	92.3	118.5	152.9	194.5	304.0	488.6	796.2	1238.7	1621.4
85°	21.7	21.7	29.9	44.3	52.5	60.6	76.9	126.7	216.2	431.6	874.9
87.5°	4.5	4.5	6.3	12.7	13.6	13.6	17.2	23.5	20.8	19.0	85.1
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: P159564

CATALOG NUMBER: VST-F06-LED-E-U-T3-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9
2.5°	1492.0	1490.2	1491.1	1492.0	1491.1	1491.1	1490.2	1489.3	1490.2	1490.2	1492.9
5°	1491.1	1490.2	1491.1	1491.1	1491.1	1492.0	1492.0	1492.0	1494.7	1494.7	1499.2
7.5°	1492.9	1492.9	1494.7	1494.7	1494.7	1494.7	1495.6	1497.4	1502.0	1501.1	1509.2
10°	1496.5	1498.3	1502.9	1503.8	1503.8	1506.5	1508.3	1511.9	1516.4	1518.2	1525.5
12.5°	1501.1	1510.1	1518.2	1520.1	1522.8	1527.3	1530.0	1531.8	1540.0	1542.7	1551.7
15°	1506.5	1519.1	1529.1	1532.7	1536.3	1541.8	1545.4	1548.1	1555.3	1559.0	1569.8
17.5°	1507.4	1521.9	1533.6	1539.1	1543.6	1549.9	1555.3	1560.8	1568.9	1574.3	1585.2
20°	1506.5	1525.5	1543.6	1550.8	1555.3	1567.1	1575.2	1582.5	1592.4	1597.9	1608.7
22.5°	1516.4	1538.1	1562.6	1571.6	1578.9	1595.1	1606.0	1617.8	1630.4	1634.1	1642.2
25°	1540.0	1562.6	1593.3	1606.0	1618.7	1640.4	1655.8	1673.0	1685.6	1687.4	1690.2
27.5°	1579.8	1600.6	1637.7	1656.7	1677.5	1708.2	1730.9	1748.1	1766.2	1766.2	1764.3
30°	1660.3	1664.8	1703.7	1728.2	1758.9	1804.2	1837.6	1856.6	1870.2	1870.2	1854.8
32.5°	1764.3	1758.9	1794.2	1820.4	1863.0	1926.3	1971.5	1986.0	2000.5	1996.0	1969.7
35°	1914.5	1899.2	1919.1	1958.9	2006.8	2093.7	2140.7	2173.3	2182.4	2169.7	2128.1
37.5°	2103.6	2101.8	2111.8	2156.1	2209.5	2321.7	2369.7	2390.5	2383.2	2360.6	2287.3
40°	2303.6	2298.2	2291.8	2321.7	2381.4	2516.2	2601.3	2612.1	2602.2	2568.7	2476.4
42.5°	2570.5	2570.5	2540.7	2548.8	2598.6	2749.7	2850.1	2884.5	2885.4	2836.5	2713.5
45°	2937.9	2934.2	2881.8	2869.1	2907.1	3055.5	3184.9	3203.9	3203.9	3139.6	3004.8
47.5°	3379.4	3374.9	3323.3	3279.0	3286.2	3446.4	3554.0	3583.0	3557.6	3509.7	3349.5
50°	3877.0	3868.9	3816.4	3774.8	3756.7	3918.7	4010.0	4023.6	3986.5	3929.5	3755.8
52.5°	4381.9	4406.3	4375.6	4353.0	4359.3	4464.2	4558.3	4494.1	4475.1	4413.6	4239.0
55°	4907.6	4982.7	5050.5	5030.6	5054.2	5156.4	5174.5	5089.5	5055.1	5010.7	4816.2
57.5°	5436.9	5655.9	5878.4	5940.9	5998.8	6145.3	6124.5	5985.2	6011.4	6077.5	5858.5
60°	6176.1	6808.6	7373.2	7477.2	7657.3	7782.1	7810.2	7783.0	7905.2	7870.8	7677.2
62.5°	7311.6	8365.7	9151.1	9346.5	9527.5	9521.1	9426.1	9328.4	9448.7	9448.7	8943.0
65°	8122.3	9318.5	10159.0	10321.0	10313.7	10095.7	9871.3	9675.8	9658.7	9524.7	8785.5
66°	8160.3	9391.7	10215.1	10356.3	10302.0	9950.9	9682.2	9434.3	9328.4	9142.0	8384.7
67.5°	7818.3	9184.5	10032.3	10155.4	10012.4	9509.4	9139.3	8807.2	8653.4	8339.5	7626.5
70°	6413.2	7893.4	9126.6	9378.2	9216.2	8579.2	8072.6	7623.8	7329.7	6876.4	6362.5
72.5°	4681.4	5827.8	7163.2	7572.2	7546.9	6960.6	6552.5	6141.7	5755.4	5342.8	4967.3
75°	3042.8	3791.1	4535.7	4774.6	4659.7	4320.4	4028.1	3788.4	3421.9	3135.1	3065.4
77.5°	1737.2	2122.6	2007.7	1977.9	1834.0	1480.2	984.4	690.4	623.4	778.1	853.2
80°	1653.1	1498.3	1226.9	1106.6	1017.0	693.1	363.7	256.1	224.4	229.8	247.0
82.5°	1863.9	1942.6	1588.8	1327.3	1155.4	843.3	460.5	214.4	156.5	185.5	208.1
85°	1397.0	1967.0	1949.8	1652.2	1355.4	971.7	544.7	163.8	94.1	130.3	170.1
87.5°	283.2	466.0	448.8	394.5	335.7	234.3	91.4	51.6	47.0	64.2	97.7
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: P159564

CATALOG NUMBER: VST-F06-LED-E-U-T3-7030

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9	1492.9
2.5°	1494.7	1494.7	1496.5	1499.2	1500.1	1500.1	1502.0	1500.1	1503.8	1504.7	1505.6
5°	1502.9	1505.6	1507.4	1511.9	1514.6	1516.4	1519.1	1517.3	1521.0	1521.9	1523.7
7.5°	1511.9	1516.4	1520.1	1521.9	1525.5	1525.5	1526.4	1524.6	1523.7	1521.0	1520.1
10°	1528.2	1530.9	1535.4	1533.6	1531.8	1525.5	1520.1	1511.9	1507.4	1499.2	1494.7
12.5°	1554.4	1556.2	1556.2	1548.1	1536.3	1521.9	1508.3	1494.7	1483.9	1474.8	1469.4
15°	1572.5	1576.1	1571.6	1559.9	1542.7	1522.8	1504.7	1486.6	1472.1	1460.3	1453.1
17.5°	1586.1	1585.2	1577.1	1560.8	1544.5	1527.3	1511.0	1492.0	1473.9	1456.7	1445.9
20°	1606.9	1597.9	1583.4	1566.2	1549.0	1534.5	1521.9	1503.8	1484.8	1461.2	1445.0
22.5°	1635.0	1618.7	1597.9	1579.8	1563.5	1549.9	1535.4	1520.1	1500.1	1473.9	1451.3
25°	1674.8	1646.7	1623.2	1605.1	1590.6	1575.2	1559.0	1539.1	1519.1	1492.0	1464.9
27.5°	1735.4	1693.8	1663.9	1647.6	1634.1	1613.2	1592.4	1568.9	1543.6	1515.5	1484.8
30°	1808.7	1758.9	1724.5	1710.1	1693.8	1670.2	1647.6	1615.1	1579.8	1546.3	1508.3
32.5°	1894.6	1844.0	1809.6	1798.7	1772.5	1745.3	1713.7	1670.2	1624.1	1574.3	1529.1
35°	2024.9	1960.7	1929.0	1903.7	1867.5	1834.9	1781.5	1724.5	1658.5	1592.4	1536.3
37.5°	2158.8	2093.7	2061.1	2025.8	1978.8	1919.1	1847.6	1766.2	1678.4	1597.0	1528.2
40°	2338.0	2267.4	2225.8	2171.5	2095.5	2002.3	1896.4	1785.2	1678.4	1577.1	1493.8
42.5°	2547.0	2481.8	2417.6	2328.0	2205.9	2070.2	1921.8	1778.8	1649.4	1532.7	1445.0
45°	2836.5	2725.2	2623.0	2479.1	2300.9	2110.0	1924.5	1749.0	1599.7	1470.3	1372.6
47.5°	3162.2	3018.4	2837.4	2612.1	2368.7	2125.4	1898.3	1692.9	1521.0	1380.7	1273.9
50°	3537.7	3317.0	3039.2	2718.0	2403.1	2104.5	1835.8	1598.8	1412.4	1251.3	1137.3
52.5°	3967.5	3630.9	3222.0	2793.1	2397.7	2041.2	1732.7	1474.8	1266.7	1095.7	983.5
55°	4444.3	3972.9	3396.6	2841.0	2348.8	1918.2	1570.7	1300.2	1085.8	917.5	818.8
57.5°	5284.9	4572.8	3729.6	2905.3	2246.6	1731.8	1365.3	1079.4	885.8	742.8	648.7
60°	6846.6	5621.5	4360.2	3056.4	2092.8	1498.3	1106.6	846.9	684.9	580.9	511.2
62.5°	7812.9	6359.8	4667.8	3034.7	1843.1	1178.9	821.6	627.9	500.4	431.6	388.2
65°	7584.0	6070.3	4292.3	2606.7	1434.1	836.0	543.8	410.8	343.8	308.5	287.7
66°	7272.7	5746.3	3974.8	2334.4	1249.5	698.5	448.8	344.7	295.9	269.6	258.8
67.5°	6620.4	5154.6	3428.3	1869.3	936.5	520.3	331.2	270.5	240.7	227.1	219.9
70°	5540.9	4153.0	2424.8	1103.8	507.6	282.3	211.7	188.2	181.0	176.4	173.7
72.5°	4284.2	3006.6	1416.9	542.9	256.1	182.8	161.1	151.1	148.4	148.4	149.3
75°	2699.0	1728.2	634.3	261.5	173.7	147.5	137.5	133.0	133.9	134.8	133.9
77.5°	896.6	596.3	264.2	185.5	151.1	133.9	125.8	124.0	125.8	126.7	126.7
80°	257.9	225.3	190.9	163.8	138.4	124.9	117.6	116.7	121.2	122.1	120.3
82.5°	198.1	185.5	172.8	158.3	133.0	117.6	114.9	115.8	118.5	116.7	108.6
85°	181.9	180.1	129.4	128.5	115.8	112.2	109.5	110.4	107.7	97.7	88.7
87.5°	102.2	95.0	73.3	74.2	86.0	88.7	73.3	77.8	72.4	63.3	57.9
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: P159564

CATALOG NUMBER: VST-F06-LED-E-U-T3-7030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1492.9	1492.9	1492.9	1492.9	1492.9
2.5°	1507.4	1506.5	1506.5	1509.2	1505.6
5°	1524.6	1523.7	1523.7	1526.4	1523.7
7.5°	1516.4	1513.7	1511.9	1511.0	1511.0
10°	1489.3	1486.6	1481.1	1479.3	1477.5
12.5°	1461.2	1458.5	1452.2	1452.2	1450.4
15°	1444.0	1440.4	1435.9	1433.2	1431.4
17.5°	1435.0	1429.6	1424.1	1421.4	1419.6
20°	1431.4	1424.1	1417.8	1413.3	1413.3
22.5°	1432.3	1423.2	1416.0	1410.6	1408.8
25°	1441.3	1427.8	1418.7	1413.3	1411.5
27.5°	1454.0	1437.7	1426.0	1418.7	1416.0
30°	1471.2	1448.6	1432.3	1423.2	1419.6
32.5°	1483.0	1451.3	1430.5	1417.8	1413.3
35°	1482.0	1441.3	1416.0	1399.7	1394.3
37.5°	1465.8	1417.8	1384.3	1364.4	1355.4
40°	1429.6	1374.4	1339.1	1320.1	1309.2
42.5°	1377.1	1317.4	1285.7	1264.9	1253.1
45°	1294.8	1235.9	1197.0	1180.8	1165.4
47.5°	1180.8	1121.0	1087.6	1064.0	1054.1
50°	1046.8	987.1	951.8	932.8	923.8
52.5°	900.3	843.3	817.9	799.8	787.2
55°	748.3	695.8	684.9	665.0	653.3
57.5°	605.3	574.5	564.6	544.7	534.7
60°	473.2	463.3	452.4	439.7	434.3
62.5°	366.4	357.4	354.7	346.5	345.6
65°	279.6	280.5	278.7	276.9	275.1
66°	254.2	253.3	254.2	252.4	251.5
67.5°	216.2	219.9	222.6	221.7	221.7
70°	175.5	178.2	181.9	181.0	181.0
72.5°	150.2	154.7	156.5	155.6	155.6
75°	135.7	140.2	140.2	138.4	137.5
77.5°	126.7	128.5	126.7	124.9	123.1
80°	117.6	115.8	113.1	110.4	108.6
82.5°	102.2	97.7	95.0	90.5	90.5
85°	82.3	78.7	72.4	67.9	63.3
87.5°	53.4	51.6	47.0	35.3	28.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)