

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: P157988

Luminaire Tested: **VST-E03-LED-E-U-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157988
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7888.2 lumens
Efficiency: N/A
Efficacy: 104.9 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

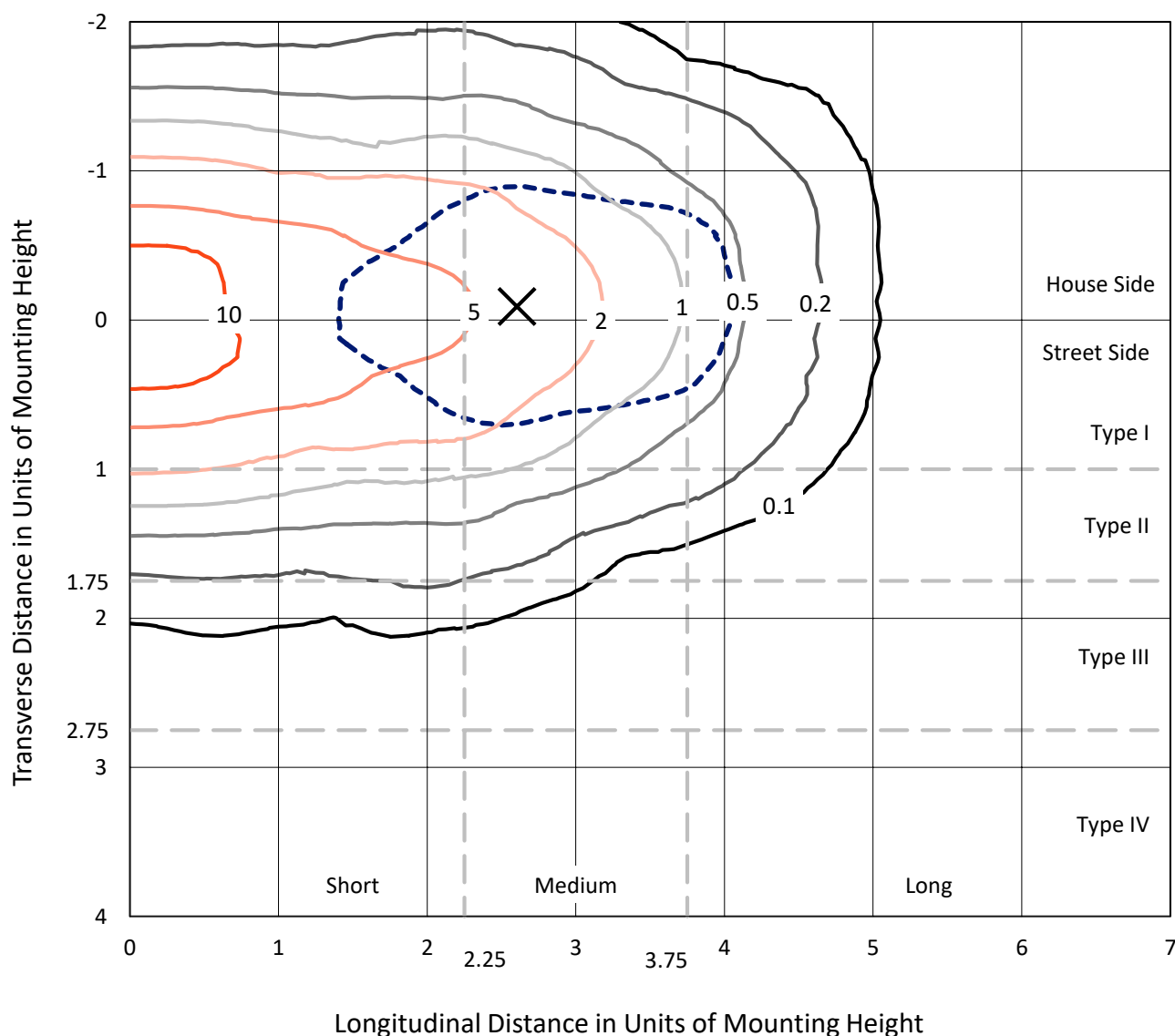


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

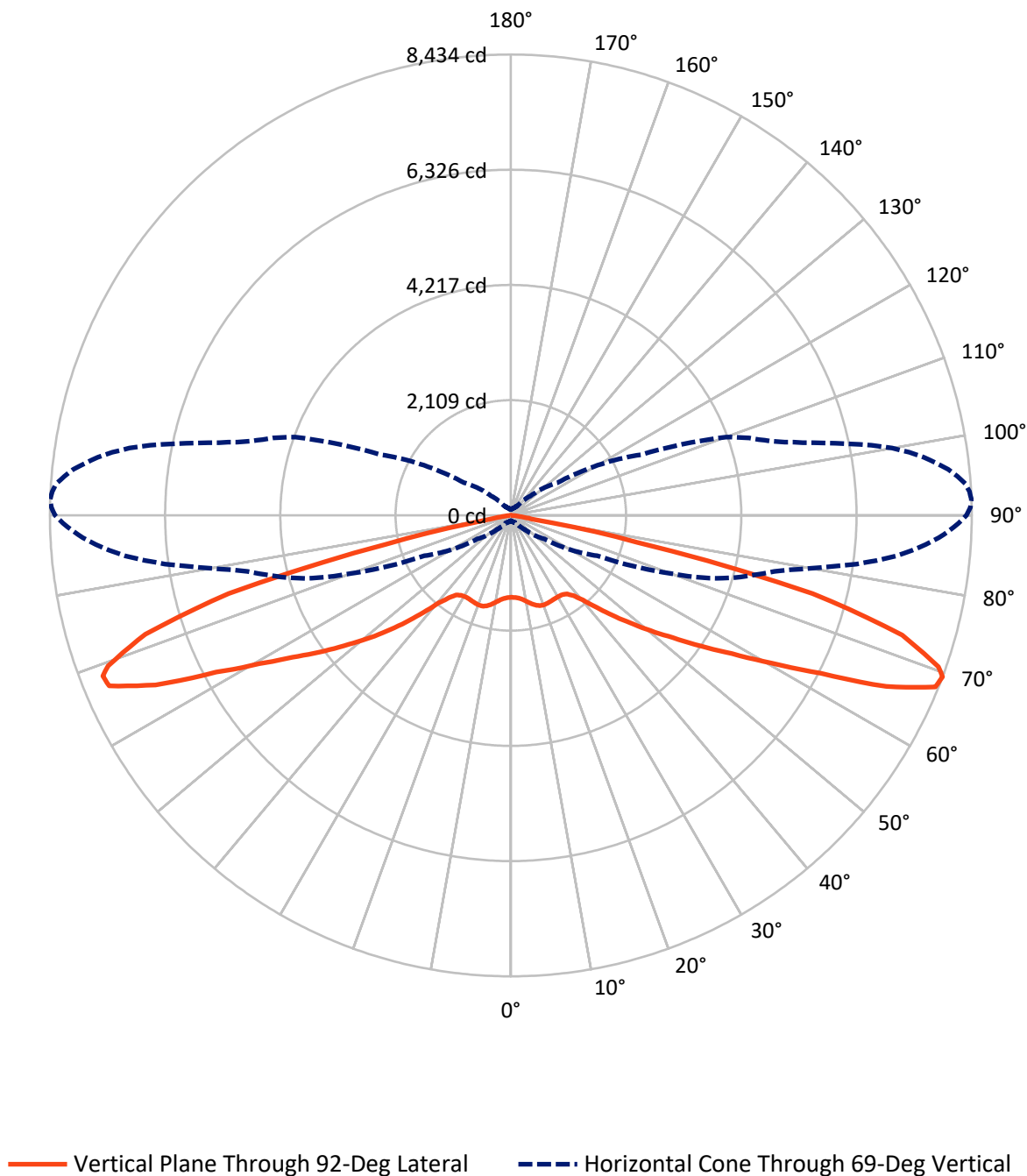


Based on 10 foot mounting height. Maximum calculated value = 15.4 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4183.5	0.0	4183.5
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	3704.7	0.0	3704.7
	% Fixture	47.0	0.0	47.0
Total	Lumens	7888.2	0.0	7888.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	146.6	1.9
10°-20°	463.2	5.9
20°-30°	751.5	9.5
30°-40°	936.5	11.9
40°-50°	1166.1	14.8
50°-60°	1438.1	18.2
60°-70°	1786.0	22.6
70°-80°	1097.4	13.9
80°-90°	102.9	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°	7888.2	100.0
0°-180°	7888.2	100.0

Coefficient of Utilization



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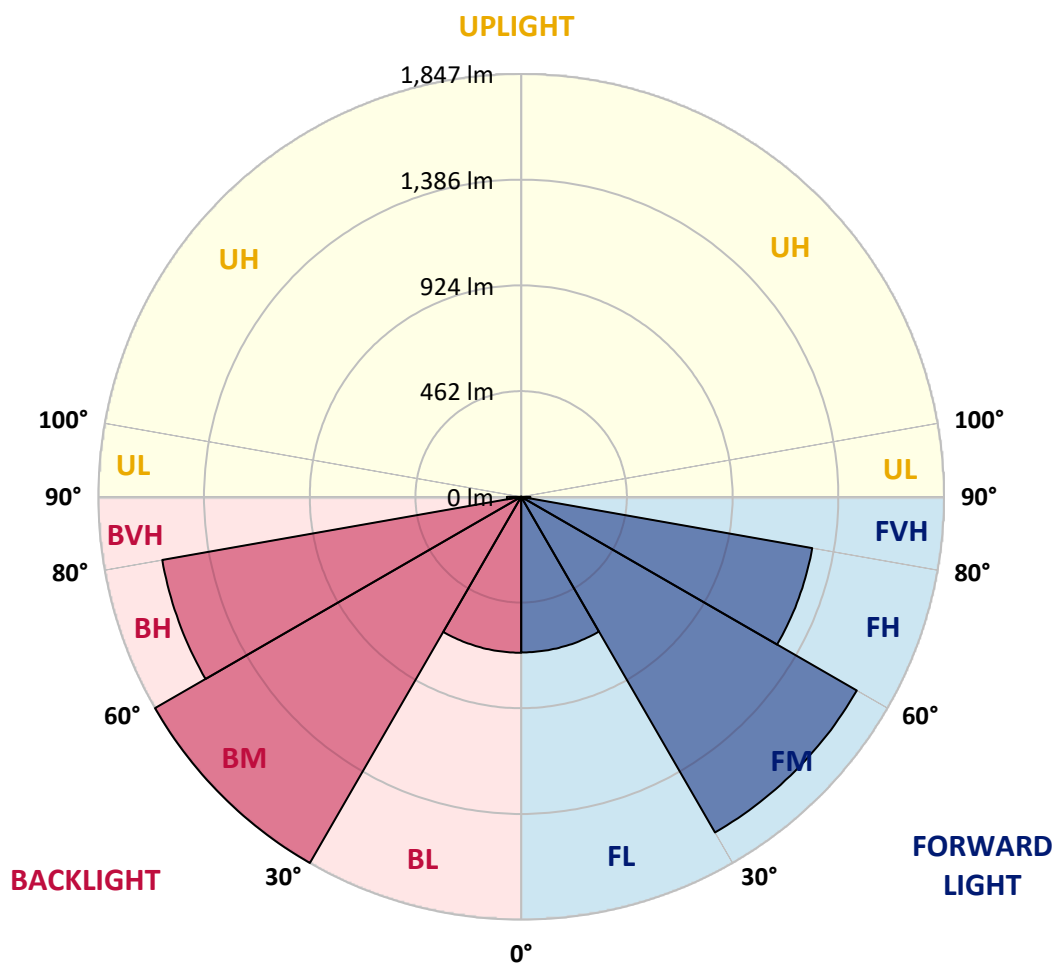
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	679.9	8.6			
FM	(30°-60°)	1693.3	21.5			
FH	(60°-80°)	1291.2	16.4			G1/1800
FVH	(80°-90°)	40.3	0.5			G1/100
BL	(0°-30°)	681.4	8.6	B2/1000		
BM	(30°-60°)	1847.4	23.4	B2/2500		
BH	(60°-80°)	1592.2	20.2	B3/2500		G3/2500
BVH	(80°-90°)	62.6	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°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1522.2	1518.2	1521.7	1522.2	1521.7	1521.7	1517.2	1516.1	1510.1	1511.6	1511.1
5°	1543.0	1541.5	1544.0	1545.0	1546.0	1544.0	1540.4	1538.9	1534.9	1533.4	1532.9
7.5°	1562.2	1559.7	1563.7	1567.3	1569.8	1570.3	1570.9	1568.3	1568.3	1566.3	1566.3
10°	1578.4	1576.4	1583.0	1587.5	1595.6	1600.2	1605.3	1608.8	1610.8	1611.4	1610.8
12.5°	1585.5	1584.0	1594.6	1608.3	1623.5	1634.2	1646.8	1655.9	1658.5	1657.9	1660.4
15°	1573.4	1574.4	1590.6	1617.4	1649.8	1676.7	1694.4	1702.0	1704.0	1705.0	1705.6
17.5°	1540.4	1542.5	1565.8	1609.3	1666.0	1714.7	1741.0	1741.0	1736.9	1736.9	1736.4
20°	1487.8	1489.8	1520.2	1583.0	1666.6	1741.0	1778.5	1770.8	1755.7	1752.7	1749.6
22.5°	1414.9	1423.0	1456.4	1529.3	1644.8	1748.6	1801.7	1790.6	1766.8	1760.2	1755.7
25°	1332.3	1331.3	1371.3	1453.4	1592.1	1730.3	1808.3	1806.3	1781.0	1773.9	1765.8
27.5°	1238.2	1241.2	1278.1	1361.2	1511.6	1677.7	1797.2	1824.1	1803.3	1796.2	1788.6
30°	1141.4	1144.4	1179.4	1276.1	1420.0	1602.2	1774.4	1841.3	1833.1	1827.6	1822.5
32.5°	1044.2	1045.2	1086.7	1190.5	1342.4	1512.1	1740.0	1856.9	1868.1	1865.6	1863.5
35°	953.0	954.1	999.1	1104.4	1266.0	1435.1	1698.4	1879.7	1915.7	1918.7	1920.8
37.5°	864.4	865.9	912.0	1022.4	1190.5	1376.9	1652.3	1914.7	1982.5	1993.7	1995.7
40°	776.3	777.8	821.9	938.9	1114.1	1325.8	1616.9	1963.8	2072.7	2087.9	2103.5
42.5°	692.2	697.8	735.3	847.2	1029.0	1262.5	1601.7	2023.6	2179.5	2203.3	2221.0
45°	613.7	614.3	656.8	761.6	928.2	1176.8	1591.6	2091.4	2299.0	2335.0	2359.3
47.5°	529.7	535.7	580.3	682.1	834.1	1071.0	1559.2	2170.9	2429.2	2471.2	2520.3
50°	448.1	456.8	499.8	600.6	748.0	961.6	1472.1	2264.1	2575.5	2630.2	2686.9
52.5°	369.7	369.2	414.7	519.5	661.4	869.0	1330.8	2361.8	2744.6	2803.4	2864.7
55°	279.5	279.5	324.6	420.3	567.7	786.4	1179.4	2422.6	2901.7	2972.5	3039.4
57.5°	191.9	197.0	239.5	322.1	469.9	711.0	1063.4	2387.6	3021.7	3109.7	3189.3
60°	142.3	147.4	178.7	231.4	367.6	621.8	976.3	2223.1	3094.1	3211.0	3314.3
62.5°	123.1	126.6	156.5	185.3	264.8	527.2	899.3	2014.0	3198.4	3358.4	3502.2
65°	109.9	113.5	143.3	160.0	207.1	423.8	856.3	1894.4	3323.0	3567.5	3776.2
67.5°	101.8	105.8	131.2	143.3	180.8	383.3	822.9	1866.6	3322.0	3618.7	3885.1
69°	97.7	100.8	121.6	134.7	174.7	371.2	750.5	1745.5	3102.7	3421.2	3688.6
70°	95.2	98.2	116.0	129.1	172.7	349.4	683.6	1585.5	2853.0	3173.6	3445.0
72.5°	87.1	90.1	103.3	115.4	143.8	233.5	476.5	1014.8	2038.7	2267.6	2578.1
75°	77.0	80.5	90.7	100.8	108.9	135.2	275.0	526.7	1165.7	1339.4	1615.9
77.5°	62.8	66.4	77.0	93.2	92.2	102.8	178.7	323.6	545.9	677.0	779.3
80°	51.7	54.2	63.3	94.2	75.5	86.1	144.8	265.4	384.4	424.9	449.2
82.5°	34.4	38.0	49.1	73.9	57.7	61.3	108.4	248.2	325.1	356.5	385.9
85°	16.2	17.7	29.9	39.5	34.9	32.9	61.8	175.2	242.0	256.7	267.9
87.5°	0.0	0.0	1.5	3.1	4.6	4.6	11.2	37.0	67.9	82.0	81.0
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°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1509.1	1509.5	1509.1	1509.1	1508.5	1507.6	1507.6	1506.5	1507.0	1506.5	1507.6
5°	1532.3	1532.3	1530.8	1529.8	1531.3	1529.8	1530.3	1527.8	1527.8	1526.3	1524.2
7.5°	1565.8	1565.8	1566.3	1563.2	1565.3	1565.8	1564.3	1563.2	1562.2	1559.7	1560.2
10°	1610.3	1610.3	1611.8	1607.8	1609.8	1610.8	1611.4	1611.4	1610.3	1605.8	1606.3
12.5°	1660.0	1658.9	1659.5	1657.4	1659.5	1660.4	1661.5	1660.4	1660.4	1659.5	1658.9
15°	1705.0	1704.5	1705.6	1704.0	1704.5	1705.6	1708.6	1708.1	1707.5	1704.5	1704.5
17.5°	1735.9	1734.4	1733.4	1732.9	1732.9	1732.4	1732.9	1732.9	1731.4	1730.9	1730.9
20°	1747.6	1743.5	1741.0	1739.5	1737.4	1736.4	1735.4	1735.9	1734.9	1733.4	1733.9
22.5°	1749.6	1744.0	1739.0	1734.4	1730.3	1727.8	1725.3	1724.3	1721.8	1720.2	1720.2
25°	1759.2	1750.6	1742.5	1734.9	1728.8	1723.3	1717.7	1713.7	1710.6	1707.1	1706.0
27.5°	1780.5	1771.4	1761.7	1752.1	1744.0	1732.9	1725.3	1717.2	1710.1	1704.5	1700.5
30°	1813.4	1804.3	1794.7	1783.5	1772.9	1761.2	1748.6	1739.0	1728.8	1717.7	1711.6
32.5°	1856.9	1850.9	1841.3	1830.6	1821.0	1808.8	1793.6	1778.9	1769.3	1756.2	1746.5
35°	1919.2	1912.1	1909.1	1904.5	1894.9	1887.4	1870.6	1856.9	1847.8	1829.6	1822.5
37.5°	2004.3	2003.8	2006.3	2004.8	2006.3	1996.7	1989.1	1988.6	1975.4	1957.7	1940.5
40°	2120.3	2126.3	2140.0	2149.6	2158.7	2159.8	2170.4	2159.3	2160.8	2158.3	2140.5
42.5°	2252.5	2273.2	2289.4	2317.7	2339.5	2359.8	2373.5	2392.2	2406.4	2419.0	2422.1
45°	2399.8	2430.7	2468.2	2493.5	2536.0	2570.0	2616.5	2652.5	2690.0	2726.9	2740.1
47.5°	2559.8	2598.3	2639.8	2686.9	2740.6	2793.8	2865.7	2920.9	2981.2	3031.3	3075.8
50°	2736.5	2776.6	2832.2	2886.4	2960.4	3021.7	3115.9	3188.3	3285.5	3352.3	3410.0
52.5°	2920.9	2971.0	3033.3	3093.1	3168.5	3247.0	3351.8	3458.7	3575.6	3676.9	3761.0
55°	3101.2	3163.0	3222.7	3292.6	3376.1	3467.3	3585.8	3726.5	3872.4	3988.4	4099.8
57.5°	3261.7	3333.1	3403.5	3474.4	3560.0	3665.8	3799.0	3950.9	4118.0	4272.5	4425.4
60°	3410.6	3496.1	3582.2	3670.9	3769.1	3899.8	4059.8	4246.6	4462.9	4674.0	4874.0
62.5°	3646.0	3758.5	3865.3	3979.7	4098.2	4251.7	4440.6	4685.6	4933.8	5197.6	5402.7
65°	3965.0	4123.1	4262.8	4411.2	4564.6	4769.8	4995.6	5288.8	5644.3	5914.7	6243.8
67.5°	4123.6	4331.7	4511.5	4676.6	4866.5	5073.5	5342.0	5688.8	6068.1	6460.1	6827.2
69°	3937.2	4151.9	4351.0	4535.8	4727.7	4928.8	5209.3	5565.3	5966.3	6390.2	6748.7
70°	3695.6	3910.4	4122.5	4333.2	4508.5	4704.4	4985.9	5353.1	5753.6	6194.2	6549.7
72.5°	2831.3	3089.5	3281.5	3478.9	3682.0	3848.1	4173.2	4482.6	4899.9	5347.0	5738.5
75°	1811.4	2048.9	2258.5	2426.6	2625.1	2824.1	3064.2	3408.1	3669.4	4036.5	4354.0
77.5°	930.8	1001.2	1203.2	1263.5	1401.2	1509.5	1641.7	1727.8	1940.5	1985.6	2173.0
80°	441.1	397.5	374.2	353.0	359.0	356.5	345.8	331.7	349.4	341.8	338.8
82.5°	384.4	342.8	273.5	232.4	201.1	170.6	146.9	134.7	136.2	140.3	141.8
85°	269.4	253.2	197.5	149.9	117.0	90.7	72.9	69.9	71.9	77.5	75.5
87.5°	78.0	81.5	71.9	50.2	34.9	25.3	19.7	22.3	21.2	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



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CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1507.6	1507.0	1505.5	1504.0	1504.0	1503.0	1504.0	1504.5	1504.0	1504.0	1503.0
5°	1524.8	1525.3	1526.8	1523.8	1523.2	1523.8	1521.7	1521.2	1519.7	1521.2	1519.2
7.5°	1557.7	1559.2	1559.2	1557.2	1556.6	1558.2	1555.1	1554.1	1552.6	1552.1	1551.6
10°	1606.8	1608.3	1605.8	1604.3	1602.7	1604.8	1602.2	1602.2	1600.7	1599.2	1598.7
12.5°	1661.5	1660.4	1659.5	1660.4	1658.9	1658.9	1657.4	1656.4	1655.9	1655.4	1654.4
15°	1704.0	1707.5	1707.5	1708.6	1707.5	1707.5	1705.6	1706.0	1705.0	1704.5	1705.0
17.5°	1731.4	1732.4	1734.9	1736.4	1736.4	1736.9	1735.9	1736.9	1735.9	1735.9	1738.0
20°	1734.9	1735.9	1738.4	1741.0	1742.5	1743.5	1743.5	1745.0	1746.1	1747.1	1749.6
22.5°	1720.7	1722.2	1725.3	1729.9	1732.4	1733.4	1735.4	1738.0	1740.5	1742.5	1746.1
25°	1706.0	1706.5	1709.6	1714.1	1717.2	1719.7	1723.3	1726.3	1729.9	1733.9	1738.0
27.5°	1697.9	1697.5	1700.0	1704.5	1707.1	1710.6	1713.7	1718.2	1722.2	1727.3	1730.9
30°	1705.0	1701.0	1701.5	1703.5	1705.6	1708.1	1711.6	1715.6	1720.2	1724.8	1728.8
32.5°	1736.4	1727.3	1721.2	1719.7	1720.2	1720.7	1722.8	1725.3	1728.8	1732.4	1733.9
35°	1804.3	1788.6	1780.5	1773.9	1768.3	1763.8	1764.8	1764.3	1764.3	1767.3	1763.8
37.5°	1933.4	1913.6	1905.1	1893.4	1886.8	1870.1	1865.6	1864.6	1858.0	1858.0	1850.3
40°	2136.0	2124.3	2117.8	2107.1	2075.2	2079.2	2056.4	2057.0	2038.3	2040.2	2027.1
42.5°	2424.1	2425.6	2417.5	2410.4	2385.6	2374.5	2353.2	2322.8	2299.0	2298.5	2272.2
45°	2757.3	2775.5	2749.7	2758.9	2737.1	2707.2	2682.4	2643.4	2606.4	2594.8	2567.9
47.5°	3105.7	3135.6	3115.9	3119.4	3108.8	3066.2	3032.8	2984.7	2936.6	2904.2	2888.0
50°	3477.9	3497.6	3497.2	3487.6	3482.5	3440.9	3387.3	3350.8	3315.4	3271.8	3257.6
52.5°	3815.2	3861.2	3892.1	3885.1	3870.4	3845.6	3797.9	3766.6	3714.4	3708.3	3714.4
55°	4176.2	4236.0	4267.4	4305.4	4305.9	4301.3	4281.5	4269.9	4221.3	4226.9	4219.8
57.5°	4518.1	4605.7	4653.8	4734.8	4762.6	4799.6	4786.0	4801.1	4771.7	4791.0	4785.4
60°	4981.4	5102.9	5182.9	5293.9	5345.5	5438.2	5456.4	5467.6	5483.8	5523.2	5501.0
62.5°	5564.3	5742.5	5908.6	6059.5	6109.1	6248.4	6271.2	6358.3	6362.8	6389.7	6340.6
65°	6518.3	6735.5	6918.4	7099.1	7203.5	7366.5	7432.4	7601.5	7549.9	7571.6	7466.8
67.5°	7143.2	7395.9	7641.0	7812.1	7985.3	8152.0	8272.0	8381.3	8380.3	8359.1	8265.9
69°	7088.0	7369.6	7611.1	7840.5	8022.8	8194.0	8338.3	8409.2	8434.0	8403.1	8336.8
70°	6897.1	7186.3	7482.0	7670.9	7869.4	8057.2	8206.1	8283.6	8300.8	8279.0	8221.8
72.5°	6014.9	6292.4	6618.6	6790.3	7030.3	7166.0	7371.1	7471.3	7489.1	7461.2	7423.7
75°	4694.3	4744.4	5076.6	5186.0	5360.2	5516.6	5644.3	5611.9	5702.5	5684.8	5670.6
77.5°	2211.4	2077.7	2293.0	2393.2	2340.5	2200.3	2404.4	2257.0	2354.8	2481.8	2449.4
80°	364.6	363.6	373.2	394.5	369.2	391.9	391.4	380.3	381.3	408.7	394.5
82.5°	140.3	143.3	144.8	148.9	148.9	149.4	151.9	155.0	152.4	157.5	156.5
85°	76.0	81.0	76.4	72.9	75.5	77.0	79.0	81.5	79.0	86.6	82.6
87.5°	19.7	20.8	18.2	18.2	17.7	16.2	16.2	17.2	18.7	22.3	24.3
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°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1501.0	1501.4	1502.0	1500.4	1499.5	1499.5	1498.9	1497.9	1497.4	1497.4	1497.4
5°	1518.2	1519.2	1516.7	1516.1	1515.1	1514.1	1514.1	1513.1	1513.6	1513.6	1511.1
7.5°	1552.6	1551.1	1548.1	1546.0	1548.1	1544.5	1543.0	1544.0	1543.0	1543.5	1542.5
10°	1598.7	1598.7	1595.2	1597.1	1594.6	1590.6	1592.1	1590.6	1589.6	1586.0	1588.1
12.5°	1655.9	1654.4	1652.3	1647.8	1646.3	1645.8	1641.2	1641.7	1640.2	1639.2	1637.7
15°	1706.0	1705.6	1701.0	1698.4	1697.9	1695.9	1693.9	1692.9	1690.3	1689.8	1688.8
17.5°	1739.5	1738.0	1735.9	1733.4	1733.4	1730.3	1729.3	1726.8	1726.3	1724.8	1723.3
20°	1750.6	1751.1	1749.1	1747.1	1746.1	1744.0	1742.5	1740.5	1739.5	1737.4	1735.9
22.5°	1748.1	1748.1	1746.1	1745.5	1743.5	1740.5	1738.4	1735.9	1733.4	1730.9	1727.8
25°	1740.0	1739.5	1738.0	1735.4	1732.9	1728.3	1724.3	1720.2	1716.7	1713.7	1709.1
27.5°	1732.9	1731.8	1728.8	1725.3	1720.2	1715.2	1707.5	1702.0	1697.5	1693.4	1688.3
30°	1730.3	1726.8	1722.2	1716.7	1710.6	1703.0	1694.9	1687.8	1682.8	1678.7	1676.7
32.5°	1733.4	1728.8	1721.8	1714.7	1707.1	1697.9	1689.8	1683.8	1679.2	1678.2	1678.2
35°	1761.2	1753.6	1744.0	1733.9	1724.3	1716.7	1711.1	1710.6	1707.5	1711.1	1716.7
37.5°	1842.8	1836.2	1821.5	1808.3	1801.7	1798.2	1793.2	1794.2	1787.0	1798.2	1807.3
40°	2015.9	2007.8	1990.6	1980.0	1966.9	1954.2	1964.3	1961.3	1966.3	1964.3	1973.9
42.5°	2268.7	2260.6	2233.2	2229.1	2223.6	2218.5	2218.5	2214.5	2212.4	2219.5	2211.4
45°	2576.0	2559.8	2549.7	2561.9	2545.1	2550.2	2567.9	2544.1	2549.7	2516.8	2486.4
47.5°	2895.1	2893.6	2891.0	2905.7	2908.2	2915.8	2925.4	2901.1	2857.1	2832.2	2770.5
50°	3262.2	3277.9	3284.0	3298.1	3304.2	3309.8	3294.6	3258.7	3184.2	3118.4	3045.5
52.5°	3708.3	3681.0	3718.4	3732.1	3726.1	3703.7	3649.1	3605.0	3502.2	3407.5	3294.6
55°	4227.9	4234.5	4208.2	4197.5	4176.7	4115.0	4039.5	3940.3	3810.1	3686.6	3543.7
57.5°	4757.1	4754.5	4713.5	4655.8	4585.4	4511.0	4398.5	4256.2	4104.3	3938.2	3765.5
60°	5400.7	5398.1	5315.1	5216.4	5116.1	4996.1	4819.9	4648.7	4445.2	4226.9	4021.3
62.5°	6246.4	6137.5	6056.0	5908.6	5753.6	5596.7	5358.2	5130.8	4858.9	4583.4	4343.3
65°	7330.1	7150.8	7058.1	6844.4	6604.4	6359.3	6116.8	5818.0	5451.8	5118.7	4825.4
67.5°	8131.7	7967.6	7798.0	7584.8	7321.4	7048.0	6715.8	6339.5	5923.8	5550.1	5230.6
69°	8202.1	8048.6	7845.1	7631.3	7382.2	7085.0	6722.4	6301.1	5879.8	5501.5	5187.0
70°	8095.2	7932.2	7718.0	7495.7	7217.2	6936.6	6556.8	6117.8	5695.9	5316.7	5009.8
72.5°	7298.2	7139.2	6911.3	6645.4	6359.8	6119.8	5759.2	5301.4	4842.7	4492.2	4253.2
75°	5549.6	5514.7	5353.1	5198.2	4973.3	4705.4	4375.7	4067.9	3691.6	3320.9	3098.1
77.5°	2367.9	2448.4	2532.5	2544.7	2552.8	2470.2	2419.0	2341.6	2089.9	1975.4	1857.5
80°	437.5	391.0	417.2	420.3	437.5	446.6	480.1	569.2	579.3	601.1	627.9
82.5°	155.5	158.0	162.1	163.6	165.1	171.2	193.9	232.4	267.4	313.0	373.7
85°	88.1	89.6	93.2	96.2	98.2	104.3	117.0	139.7	174.2	226.4	306.9
87.5°	26.8	30.4	32.4	36.5	38.0	39.0	44.6	59.8	77.0	113.9	166.1
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-E03-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4	1498.4
2.5°	1497.4	1496.9	1495.9	1494.9	1495.4	1494.4	1491.4	1490.3	1486.8	1484.2	1482.2
5°	1511.1	1510.6	1508.5	1509.1	1508.5	1503.5	1499.9	1493.9	1490.3	1484.8	1482.7
7.5°	1539.4	1538.9	1535.4	1536.9	1535.9	1528.3	1522.2	1512.6	1507.6	1500.4	1494.9
10°	1582.0	1582.0	1577.9	1578.4	1578.4	1568.3	1557.7	1541.5	1529.8	1518.7	1509.1
12.5°	1633.6	1631.6	1631.1	1628.6	1626.5	1615.4	1599.2	1577.4	1555.6	1537.4	1524.2
15°	1685.8	1682.8	1681.2	1678.2	1675.7	1665.5	1643.8	1616.9	1587.5	1558.2	1536.4
17.5°	1719.7	1717.7	1714.7	1713.7	1710.1	1700.0	1684.8	1657.9	1621.5	1580.5	1547.5
20°	1732.4	1728.8	1726.8	1724.8	1722.8	1715.6	1715.6	1698.4	1657.9	1600.2	1550.1
22.5°	1724.3	1722.2	1719.2	1717.7	1715.6	1716.7	1736.4	1733.9	1687.3	1604.8	1531.9
25°	1705.6	1703.0	1700.5	1700.5	1700.0	1710.6	1758.2	1764.8	1695.9	1582.5	1491.8
27.5°	1686.3	1682.8	1683.8	1684.3	1686.8	1709.6	1782.0	1772.9	1672.6	1528.8	1423.0
30°	1674.7	1674.7	1677.2	1681.2	1686.3	1726.3	1800.7	1754.6	1612.4	1447.8	1331.8
32.5°	1679.7	1684.8	1690.3	1700.5	1708.1	1763.3	1807.3	1707.5	1524.8	1347.5	1236.6
35°	1724.8	1730.9	1741.5	1757.2	1766.3	1816.4	1807.3	1638.7	1423.0	1261.4	1138.4
37.5°	1823.0	1829.1	1841.8	1853.9	1863.0	1883.3	1799.7	1551.1	1337.9	1172.3	1050.2
40°	1981.0	1989.6	1998.7	1996.7	1990.6	1970.9	1784.5	1469.6	1259.4	1094.3	963.7
42.5°	2203.3	2195.2	2194.2	2174.5	2154.2	2069.6	1773.4	1416.4	1192.1	1012.3	877.6
45°	2460.1	2427.1	2393.2	2366.9	2336.0	2178.0	1770.4	1373.3	1117.6	921.1	783.9
47.5°	2718.3	2665.7	2599.8	2558.8	2508.7	2293.4	1779.5	1315.6	1021.9	821.9	696.3
50°	2971.5	2885.5	2803.9	2754.8	2698.1	2426.2	1794.2	1218.4	907.4	731.8	616.3
52.5°	3206.0	3095.1	3011.5	2953.8	2884.4	2580.6	1781.0	1090.8	808.2	645.1	540.3
55°	3428.8	3306.2	3219.7	3158.9	3077.3	2735.5	1685.8	974.8	713.5	560.6	454.7
57.5°	3623.8	3506.3	3416.2	3333.6	3264.7	2870.2	1497.9	879.1	622.4	463.9	362.1
60°	3851.6	3719.5	3612.6	3524.5	3443.5	2939.6	1287.2	794.0	525.1	359.0	261.8
62.5°	4159.0	4007.1	3883.6	3782.8	3676.9	2954.8	1143.4	709.0	416.8	259.8	190.4
65°	4614.8	4427.4	4273.0	4134.2	3990.9	2892.0	1072.6	616.3	309.9	193.0	159.5
67.5°	4976.8	4782.4	4603.6	4425.4	4242.1	2775.5	1056.8	530.7	238.0	164.1	143.3
69°	4932.8	4747.4	4583.4	4390.4	4187.4	2629.2	1041.1	497.8	217.3	152.4	135.7
70°	4763.2	4587.4	4420.8	4263.8	4015.2	2466.1	999.6	479.6	209.2	146.9	130.1
72.5°	4024.8	3821.3	3659.7	3464.2	3202.4	1832.6	758.1	387.9	191.9	134.2	117.5
75°	2935.6	2767.0	2605.9	2389.7	2135.0	1060.4	472.0	221.8	140.8	121.6	106.3
77.5°	1714.1	1676.2	1520.7	1378.4	1126.2	539.8	270.9	132.7	109.4	110.4	93.7
80°	645.1	687.2	702.9	653.8	604.1	372.7	197.0	107.9	95.2	108.9	79.5
82.5°	470.5	545.9	555.0	531.7	494.8	347.4	157.5	86.6	77.5	117.0	68.3
85°	392.5	434.5	441.1	416.8	404.6	294.2	109.9	60.8	56.7	84.1	51.1
87.5°	198.5	209.2	214.7	194.5	195.5	137.2	44.0	25.8	30.9	35.9	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



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CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1498.4	1498.4
2.5°	1477.7	1480.7
5°	1479.7	1479.7
7.5°	1491.4	1491.4
10°	1504.0	1504.5
12.5°	1515.7	1515.1
15°	1524.8	1523.2
17.5°	1530.3	1528.8
20°	1524.8	1522.2
22.5°	1496.4	1489.3
25°	1444.7	1435.6
27.5°	1376.4	1370.3
30°	1287.2	1278.1
32.5°	1183.0	1178.4
35°	1083.2	1077.6
37.5°	992.0	990.5
40°	915.1	907.0
42.5°	824.9	821.4
45°	733.3	731.2
47.5°	647.2	645.1
50°	567.7	563.6
52.5°	489.7	483.1
55°	403.1	398.5
57.5°	309.4	305.3
60°	217.7	213.2
62.5°	155.0	149.9
65°	129.1	125.1
67.5°	117.0	112.4
69°	111.4	107.3
70°	107.9	104.8
72.5°	100.3	98.2
75°	91.7	90.1
77.5°	80.5	78.0
80°	67.4	64.8
82.5°	56.7	54.2
85°	38.0	34.4
87.5°	17.2	15.2
90°	0.0	0.0

(END OF REPORT)