

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: P159316

Luminaire Tested: **VST-F03-LED-E-U-T2-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159316
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-F03-LED-E-U-T2-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7844.1 lumens
Efficiency: N/A
Efficacy: 100.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

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



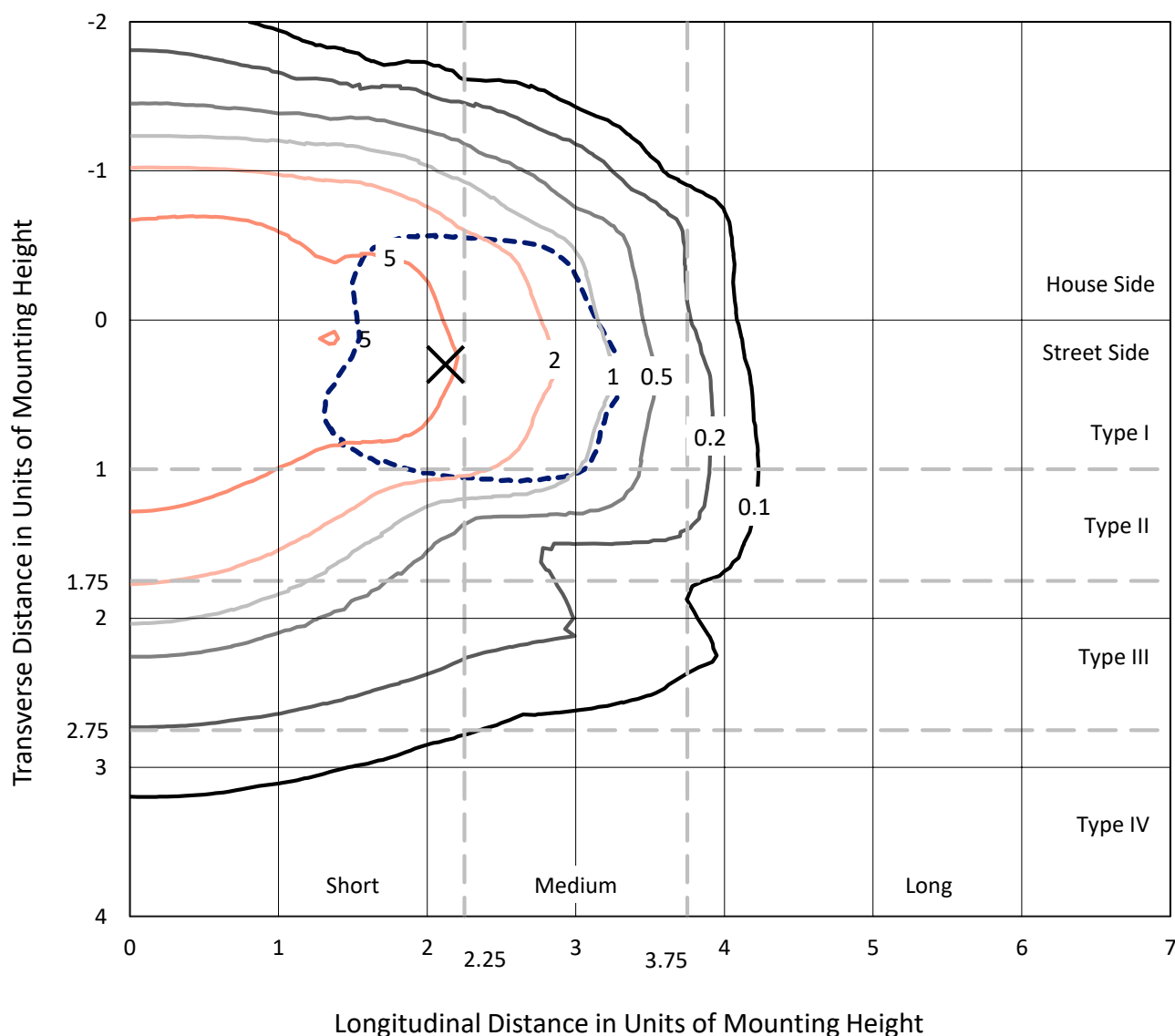
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

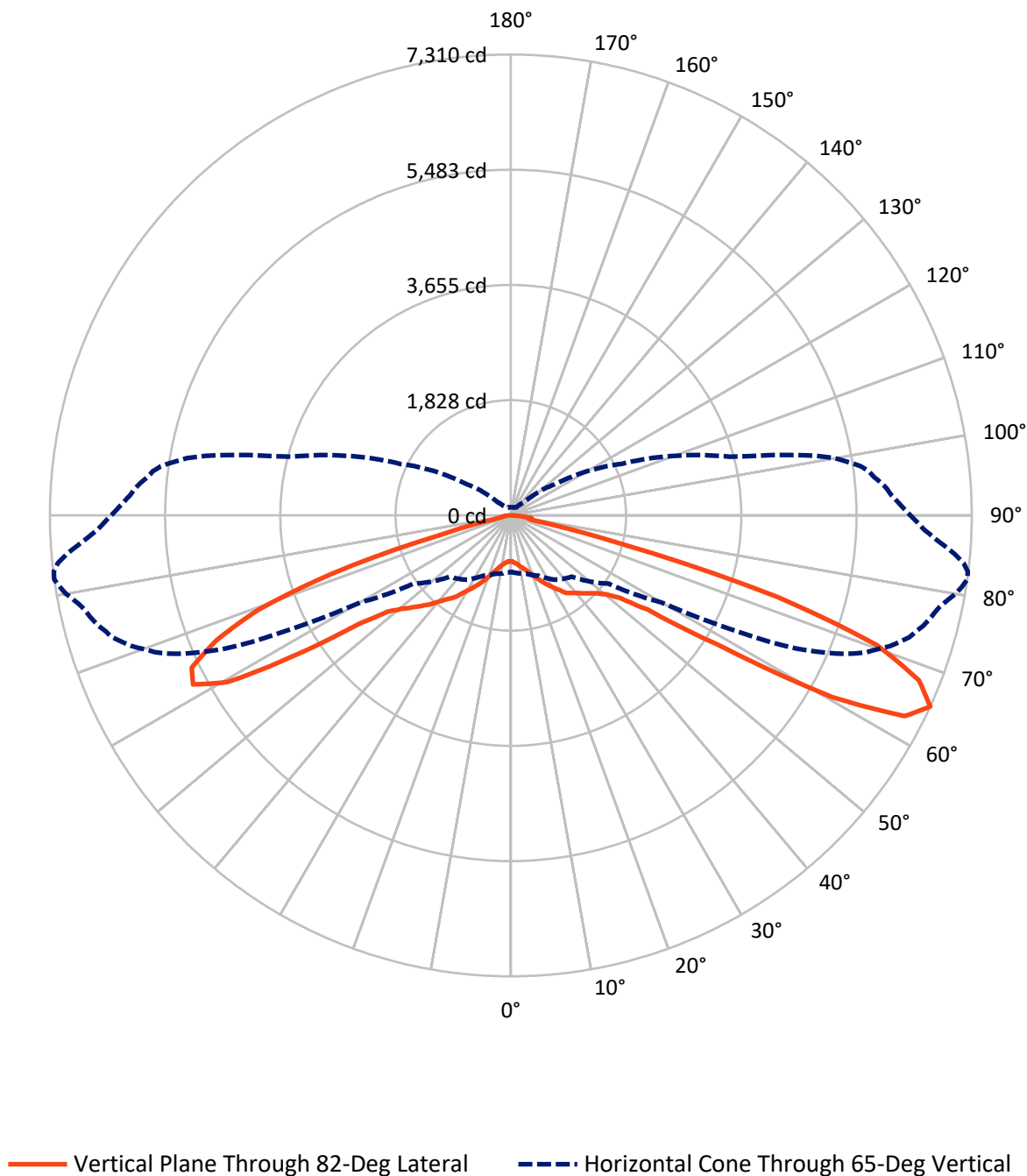


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2920.6	0.0	2920.6
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	4923.5	0.0	4923.5
	% Fixture	62.8	0.0	62.8
Total	Lumens	7844.1	0.0	7844.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	73.9	0.9
10°-20°	259.6	3.3
20°-30°	514.4	6.6
30°-40°	881.8	11.2
40°-50°	1324.7	16.9
50°-60°	1840.5	23.5
60°-70°	2099.7	26.8
70°-80°	723.3	9.2
80°-90°	126.1	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°	7844.1	100.0
0°-180°	7844.1	100.0

Coefficient of Utilization



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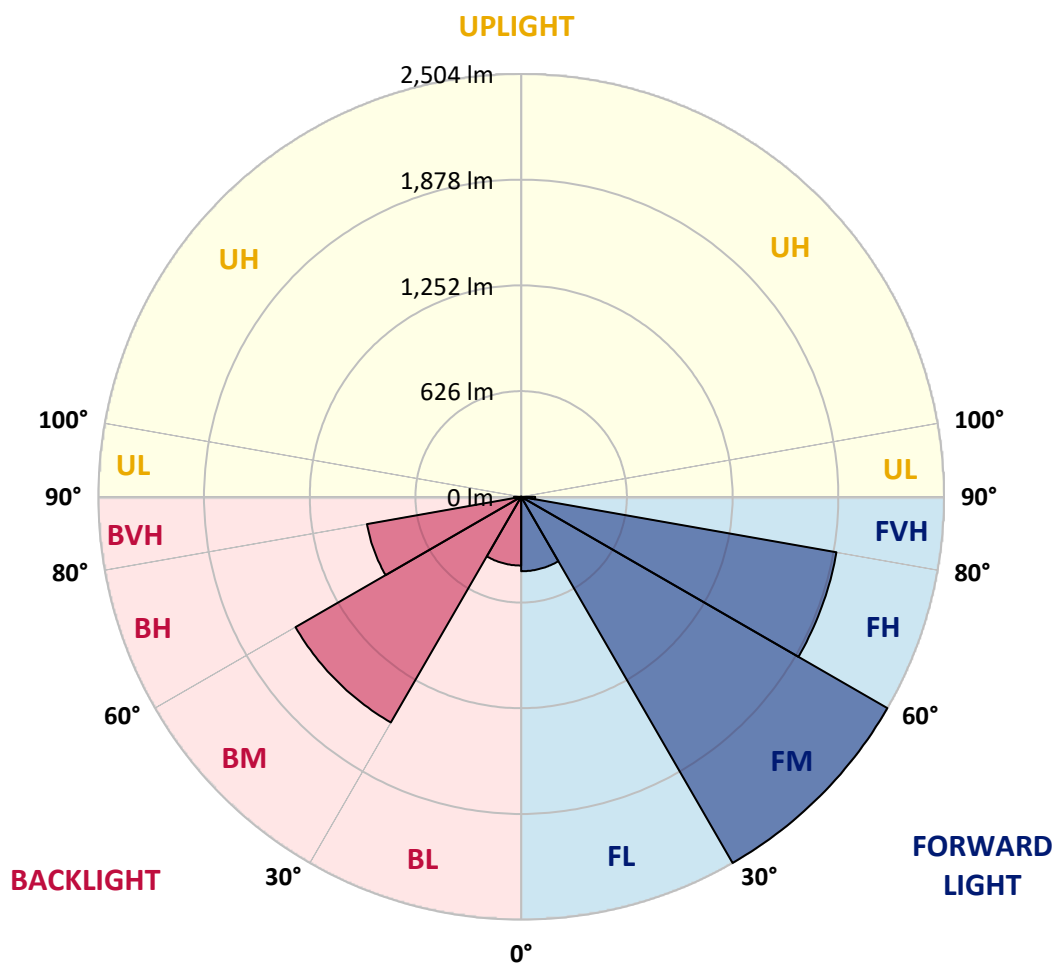
CATALOG NUMBER: VST-F03-LED-E-U-T2-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	440.7	5.6			
FM	(30°-60°)	2504.0	31.9			
FH	(60°-80°)	1895.8	24.2			G2/5000
FVH	(80°-90°)	83.0	1.1			G1/100
BL	(0°-30°)	407.3	5.2	B1/500		
BM	(30°-60°)	1543.1	19.7	B2/2500		
BH	(60°-80°)	927.2	11.8	B2/1000		G2/1000
BVH	(80°-90°)	43.1	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8
2.5°	769.5	770.0	769.5	767.9	767.5	762.9	757.8	755.3	754.7	752.7	753.2
5°	817.3	815.8	813.7	811.1	808.6	801.0	792.4	787.8	786.2	784.7	782.7
7.5°	860.0	860.9	860.0	856.4	849.8	840.1	829.0	821.8	821.3	819.8	818.3
10°	914.8	917.4	911.3	905.2	896.0	881.3	868.6	859.4	857.9	855.9	854.9
12.5°	974.3	974.8	972.8	959.0	943.8	923.5	905.2	896.0	894.0	891.5	890.5
15°	1037.8	1038.4	1027.1	1013.9	990.6	966.2	940.7	930.6	928.1	928.6	924.5
17.5°	1088.2	1089.2	1078.5	1061.7	1033.8	1004.8	977.3	969.2	967.7	968.2	966.2
20°	1110.0	1111.6	1104.9	1092.2	1065.8	1040.4	1020.5	1015.5	1015.0	1013.9	1018.0
22.5°	1109.0	1109.5	1106.9	1101.9	1086.1	1071.4	1068.8	1071.9	1071.4	1072.4	1076.0
25°	1099.9	1101.4	1100.9	1102.9	1100.3	1105.9	1117.6	1128.3	1129.8	1131.8	1138.4
27.5°	1123.2	1126.3	1122.7	1124.8	1128.8	1147.6	1171.5	1187.8	1190.8	1196.4	1202.0
30°	1214.7	1210.6	1206.1	1201.0	1203.5	1215.2	1242.2	1256.4	1257.9	1262.0	1269.6
32.5°	1350.4	1345.9	1341.8	1333.6	1331.6	1326.5	1335.7	1339.2	1338.7	1342.8	1344.8
35°	1503.4	1503.9	1502.9	1509.0	1514.0	1488.1	1456.1	1447.5	1451.0	1446.5	1447.5
37.5°	1634.0	1635.5	1662.5	1696.0	1705.7	1689.4	1619.3	1584.7	1573.0	1571.5	1559.8
40°	1778.9	1778.9	1819.5	1860.7	1887.6	1907.9	1824.6	1763.6	1738.7	1731.6	1702.6
42.5°	1937.9	1929.8	1966.9	2012.2	2062.0	2108.2	2065.0	1996.4	1960.8	1948.1	1897.3
45°	2068.6	2063.5	2081.8	2123.9	2204.8	2295.2	2301.4	2266.3	2244.9	2218.5	2171.8
47.5°	2148.8	2146.3	2157.0	2202.7	2303.9	2450.3	2532.1	2549.9	2537.2	2516.8	2471.6
50°	2180.4	2176.8	2184.4	2235.2	2348.6	2541.7	2722.7	2806.6	2812.6	2817.2	2803.0
52.5°	2169.2	2164.6	2180.4	2223.1	2341.0	2573.8	2871.6	3032.7	3059.6	3082.5	3129.2
55°	2062.0	2054.8	2097.5	2177.8	2308.0	2562.1	2980.4	3250.2	3307.1	3368.2	3471.8
57.5°	1897.8	1891.7	1953.2	2063.5	2249.5	2530.0	3053.5	3525.2	3653.3	3763.0	4057.3
60°	1739.7	1734.7	1770.7	1877.5	2059.9	2374.0	2963.1	3617.7	3832.7	4069.5	4606.7
62.5°	1457.2	1443.4	1491.7	1581.7	1697.0	1963.9	2568.2	3411.8	3743.2	4091.4	4819.7
65°	895.5	915.4	957.0	1056.7	1245.7	1372.8	1886.1	2760.3	3197.4	3634.0	4578.8
67.5°	568.7	574.3	605.3	674.5	820.8	948.4	1143.1	1732.1	2069.0	2498.5	3594.8
70°	487.4	491.0	517.4	589.6	690.7	847.7	865.0	904.7	1025.6	1299.1	2113.3
72.5°	384.2	390.4	411.2	473.7	595.7	764.4	1067.8	715.1	690.7	713.6	1031.2
75°	228.7	235.8	253.1	287.2	382.7	584.5	1118.6	832.0	775.6	731.3	711.5
77.5°	121.0	115.9	127.6	147.4	196.7	311.6	840.7	1019.5	979.9	927.1	814.7
80°	60.0	62.0	65.6	69.6	87.9	126.5	420.3	1054.6	1169.0	1219.8	1120.2
82.5°	23.9	26.9	38.1	40.7	48.3	53.9	135.2	584.5	837.1	1135.4	1482.5
85°	12.2	11.7	20.3	24.4	28.4	25.4	47.8	218.0	392.3	611.4	990.6
87.5°	1.5	2.0	4.6	6.1	8.6	8.2	13.7	47.3	75.2	106.7	149.9
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-F03-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8
2.5°	750.7	750.2	750.2	748.1	748.1	748.6	747.1	746.1	746.1	746.6	744.6
5°	781.2	779.6	779.6	777.6	775.1	775.1	773.0	772.6	771.5	769.5	767.9
7.5°	816.8	815.2	812.7	811.1	810.1	808.6	806.1	805.1	803.0	801.0	799.0
10°	853.3	851.3	850.3	847.7	846.7	843.7	842.2	842.7	838.6	837.1	837.6
12.5°	889.9	887.9	884.3	883.3	882.8	879.8	878.2	877.3	874.2	873.7	872.2
15°	922.4	923.5	922.0	919.4	917.4	916.9	915.4	914.3	912.3	910.3	908.2
17.5°	964.6	966.2	964.1	960.6	960.6	960.1	960.6	960.1	956.5	958.0	957.0
20°	1018.5	1019.5	1014.5	1016.0	1017.0	1016.5	1018.0	1019.5	1018.5	1018.5	1020.1
22.5°	1080.5	1082.0	1079.0	1081.0	1084.1	1081.6	1086.1	1085.6	1086.6	1088.2	1088.6
25°	1144.1	1147.1	1144.6	1150.1	1148.1	1150.1	1155.7	1154.2	1156.7	1160.8	1162.4
27.5°	1207.6	1209.6	1210.1	1213.7	1217.2	1220.3	1227.4	1227.4	1229.5	1236.5	1236.5
30°	1274.2	1276.2	1278.2	1283.3	1285.4	1291.0	1298.0	1300.1	1299.1	1309.3	1312.3
32.5°	1350.9	1352.9	1356.5	1362.6	1365.1	1370.8	1370.8	1376.3	1380.4	1389.1	1389.5
35°	1453.1	1454.6	1453.1	1452.5	1456.1	1463.8	1464.2	1472.4	1475.9	1484.6	1487.1
37.5°	1555.3	1554.7	1548.1	1541.0	1541.5	1538.5	1536.4	1540.0	1541.5	1542.0	1547.6
40°	1693.0	1679.8	1669.6	1651.8	1643.6	1631.0	1623.4	1622.8	1614.7	1613.7	1615.2
42.5°	1873.4	1858.1	1834.3	1804.3	1781.4	1758.0	1740.7	1730.6	1712.8	1703.6	1696.0
45°	2125.5	2087.9	2059.4	2023.9	1979.6	1939.0	1896.2	1877.0	1842.9	1822.1	1798.7
47.5°	2433.5	2396.4	2352.7	2316.1	2258.2	2201.7	2143.3	2092.0	2032.5	1985.2	1946.6
50°	2767.9	2746.0	2714.5	2680.5	2605.8	2568.7	2495.0	2425.3	2361.3	2276.9	2203.3
52.5°	3110.9	3123.7	3116.6	3104.3	3057.1	3042.8	2979.4	2894.5	2829.9	2772.0	2643.9
55°	3533.8	3549.1	3579.6	3597.4	3591.8	3627.8	3612.1	3546.0	3520.1	3493.2	3402.2
57.5°	4180.8	4289.6	4406.0	4508.2	4532.0	4660.1	4632.7	4698.7	4745.5	4711.9	4682.5
60°	4870.5	5090.1	5287.8	5494.6	5662.9	5788.9	5955.6	6067.9	6138.6	6265.6	6275.8
62.5°	5148.5	5446.9	5698.0	5937.8	6137.6	6312.4	6462.8	6617.9	6744.9	6859.8	6942.7
65°	4996.1	5307.6	5612.0	5855.5	6047.6	6198.1	6361.7	6484.7	6609.7	6683.4	6770.3
67.5°	4153.4	4566.1	4940.6	5215.1	5477.9	5630.9	5824.5	5945.5	6078.1	6155.9	6211.8
70°	2707.9	3245.2	3757.0	4173.2	4528.0	4706.3	4940.2	5105.3	5264.9	5269.0	5362.0
72.5°	1461.2	1910.5	2338.9	2764.3	3168.9	3406.3	3637.0	3837.8	3996.4	3928.7	4021.3
75°	813.7	1024.1	1258.4	1514.0	1760.6	1896.2	2068.6	2069.6	2151.4	2022.8	2055.4
77.5°	782.7	773.0	776.6	783.7	795.9	770.0	769.5	753.7	729.4	685.1	692.8
80°	1028.2	905.2	816.8	678.0	545.9	445.2	417.2	423.9	443.7	483.4	533.6
82.5°	1486.6	1382.9	1234.5	1016.0	797.5	615.0	505.2	448.3	445.7	485.4	561.6
85°	1082.6	1145.1	1135.4	947.9	781.7	634.8	462.0	390.4	323.2	307.5	334.4
87.5°	159.6	132.1	148.9	124.5	90.5	70.1	61.5	49.3	47.3	48.3	52.9
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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CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8
2.5°	745.1	743.0	741.0	742.6	741.0	740.5	739.0	738.0	737.5	737.5	737.5
5°	767.9	765.4	763.9	763.4	761.9	760.3	759.8	757.3	756.8	756.8	755.3
7.5°	799.0	796.9	794.4	792.8	791.8	789.3	786.8	786.2	785.8	783.7	782.2
10°	835.0	832.0	829.0	829.0	826.9	826.4	823.9	820.3	819.8	816.8	815.8
12.5°	869.1	868.1	864.5	863.5	862.0	860.5	859.0	857.4	855.9	853.3	854.3
15°	909.8	907.2	904.1	904.7	904.1	902.2	900.1	898.6	897.5	896.5	896.5
17.5°	958.6	957.5	957.0	954.5	952.4	954.0	954.0	954.0	951.4	952.0	952.4
20°	1020.5	1021.6	1020.5	1018.5	1018.0	1019.5	1016.0	1021.6	1018.5	1016.5	1017.5
22.5°	1089.2	1092.7	1088.6	1089.2	1091.7	1092.7	1089.2	1093.7	1092.2	1089.2	1091.7
25°	1163.9	1166.4	1164.4	1163.9	1165.4	1169.0	1168.4	1168.0	1171.5	1168.4	1170.0
27.5°	1240.6	1242.2	1243.1	1244.7	1245.7	1245.2	1247.2	1247.2	1249.3	1245.7	1247.2
30°	1316.9	1316.9	1318.9	1320.9	1320.9	1320.9	1325.0	1325.5	1322.5	1323.5	1319.9
32.5°	1398.2	1398.7	1400.7	1400.7	1404.8	1405.3	1409.9	1403.8	1409.9	1404.8	1405.8
35°	1493.8	1500.4	1501.4	1506.4	1510.5	1512.0	1512.0	1512.5	1518.1	1514.0	1515.6
37.5°	1549.6	1551.2	1555.3	1557.8	1557.8	1559.8	1561.3	1559.8	1561.3	1560.8	1562.3
40°	1615.7	1614.2	1618.7	1619.8	1617.7	1620.3	1619.8	1618.3	1622.3	1619.3	1621.3
42.5°	1696.0	1687.4	1686.8	1690.9	1686.8	1688.9	1688.4	1684.9	1689.9	1691.5	1689.9
45°	1781.9	1777.3	1768.2	1768.2	1764.1	1762.6	1763.1	1762.6	1763.1	1769.2	1771.3
47.5°	1921.7	1893.7	1877.9	1863.2	1851.0	1850.5	1844.9	1848.0	1852.0	1862.2	1871.3
50°	2156.0	2091.4	2051.8	2015.2	1988.8	1979.6	1969.0	1967.9	1971.5	1983.2	1998.9
52.5°	2573.8	2484.3	2399.9	2321.6	2253.5	2201.2	2175.3	2161.6	2156.5	2168.2	2183.4
55°	3338.2	3169.4	3050.5	2971.2	2801.9	2730.3	2638.3	2596.1	2554.9	2559.0	2584.9
57.5°	4644.4	4553.4	4453.7	4315.0	4211.3	4086.3	3856.6	3728.5	3734.1	3764.0	3670.6
60°	6356.1	6264.1	6223.0	6096.9	6024.7	5974.4	5852.5	5640.0	5564.8	5550.5	5378.8
62.5°	7006.1	7028.0	7060.6	7096.1	7094.1	7115.9	7009.2	6940.1	6853.2	6740.3	6570.6
65°	6836.4	6891.8	6957.9	7053.4	7162.2	7242.5	7310.1	7301.9	7220.6	7070.2	6890.8
67.5°	6261.6	6316.5	6364.7	6492.8	6671.2	6834.4	6978.7	7076.8	7022.4	6897.9	6688.5
70°	5397.5	5437.2	5467.7	5579.0	5774.7	5973.9	6162.5	6327.1	6310.4	6159.4	5992.2
72.5°	3910.9	4007.0	4058.8	4051.2	4172.2	4395.3	4421.8	4562.5	4601.6	4439.0	4172.7
75°	1905.4	1906.9	1847.0	1827.1	1833.2	1871.9	1798.2	1802.8	1777.3	1661.9	1566.9
77.5°	665.8	647.5	603.8	551.9	477.8	408.1	337.5	307.0	296.8	266.8	246.0
80°	573.8	600.7	592.1	549.4	471.1	375.6	280.6	207.9	177.4	166.7	156.5
82.5°	651.6	755.3	821.3	817.7	710.5	533.6	332.9	191.1	136.2	119.5	109.8
85°	363.4	390.8	398.5	362.9	301.4	205.9	114.8	80.8	68.6	62.5	56.4
87.5°	58.0	52.9	51.8	45.2	42.7	39.1	34.6	32.5	30.0	28.4	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):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8
2.5°	737.0	736.4	734.9	733.4	732.4	731.9	731.3	730.3	729.8	729.4	728.3
5°	754.3	753.2	750.7	748.1	747.1	745.6	744.1	743.0	742.0	741.5	739.5
7.5°	781.2	780.2	777.1	775.1	774.5	770.5	770.0	768.5	765.9	765.4	762.4
10°	813.7	813.2	810.7	809.1	808.1	806.1	803.0	800.5	797.9	797.9	795.9
12.5°	851.3	849.3	850.8	847.3	846.2	844.2	842.7	842.2	839.1	836.6	836.0
15°	895.5	893.0	893.0	892.0	890.9	888.9	888.4	888.9	885.9	886.9	883.9
17.5°	950.4	951.4	950.9	950.9	948.4	948.4	944.3	949.4	945.8	948.4	947.3
20°	1019.0	1019.5	1018.5	1020.1	1021.1	1020.5	1020.1	1019.5	1021.1	1023.1	1021.6
22.5°	1092.2	1092.2	1091.7	1097.3	1091.2	1095.8	1097.3	1094.3	1102.4	1101.4	1102.9
25°	1171.5	1171.5	1175.6	1180.1	1181.2	1177.6	1179.7	1177.1	1182.2	1186.3	1187.3
27.5°	1245.2	1251.8	1254.8	1251.8	1254.4	1259.9	1259.5	1259.5	1263.0	1262.0	1271.6
30°	1320.9	1325.0	1329.1	1327.0	1328.0	1335.2	1335.7	1336.2	1340.8	1347.4	1354.5
32.5°	1407.4	1411.4	1409.3	1416.0	1415.5	1424.1	1425.6	1427.2	1441.4	1438.9	1453.6
35°	1513.6	1517.6	1515.6	1522.7	1521.7	1524.7	1530.3	1536.4	1538.9	1553.7	1565.4
37.5°	1563.4	1563.4	1567.9	1576.1	1579.1	1584.2	1592.8	1600.4	1613.2	1628.9	1647.2
40°	1623.4	1624.9	1631.0	1639.6	1645.2	1656.9	1672.6	1683.3	1702.6	1719.9	1741.3
42.5°	1696.0	1702.6	1709.8	1721.4	1733.6	1751.9	1774.3	1788.0	1813.4	1835.8	1862.2
45°	1780.9	1787.5	1804.3	1825.6	1843.4	1863.7	1882.0	1914.5	1937.5	1960.8	1983.7
47.5°	1883.6	1902.9	1916.6	1942.0	1963.9	1990.8	2013.7	2044.1	2069.0	2097.5	2116.9
50°	2015.2	2039.1	2056.9	2089.9	2111.3	2141.2	2170.2	2193.1	2218.5	2246.5	2262.2
52.5°	2204.3	2228.6	2251.0	2292.2	2318.6	2338.9	2377.6	2406.1	2429.4	2449.7	2467.0
55°	2613.9	2606.8	2668.8	2748.6	2757.7	2831.5	2845.1	2869.0	2912.2	2918.3	2966.6
57.5°	3784.4	3747.8	3837.8	3954.7	3934.3	3897.2	4052.2	4061.9	4040.0	4098.5	4032.4
60°	5404.2	5340.1	5364.5	5396.5	5350.3	5328.4	5336.0	5357.9	5336.6	5313.2	5249.2
62.5°	6485.7	6387.1	6316.5	6257.0	6181.8	6127.4	6066.4	5991.2	5970.8	5885.5	5813.8
65°	6716.5	6563.0	6451.1	6338.8	6235.1	6139.1	6047.1	5982.5	5897.2	5796.1	5721.3
67.5°	6462.8	6272.8	6109.1	5945.9	5828.6	5687.3	5618.2	5512.9	5407.7	5291.9	5223.2
70°	5725.9	5527.7	5321.8	5162.2	5002.7	4827.8	4793.8	4669.3	4608.8	4450.7	4423.3
72.5°	3952.1	3820.0	3728.0	3530.8	3433.7	3344.3	3315.8	3200.4	3212.6	3039.3	3102.3
75°	1405.3	1386.5	1359.5	1248.2	1228.4	1193.9	1184.7	1176.6	1258.9	1144.6	1227.4
77.5°	241.4	239.9	226.1	219.5	232.3	224.2	226.1	222.1	246.0	249.5	244.0
80°	149.9	145.9	141.3	138.2	138.8	135.7	136.2	137.2	138.8	138.2	139.7
82.5°	102.7	99.1	97.1	95.0	98.1	99.1	101.6	104.2	108.2	110.8	113.8
85°	55.9	51.4	51.4	50.8	54.9	58.0	62.0	67.1	74.2	80.3	86.9
87.5°	28.4	27.4	28.0	29.0	32.5	35.0	40.1	44.7	50.8	57.4	63.5
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: P159316

CATALOG NUMBER: VST-F03-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8	729.8
2.5°	727.8	727.8	727.3	727.3	726.8	726.3	725.8	724.3	718.7	713.6	710.0
5°	739.0	737.5	737.0	735.4	734.9	733.9	732.4	730.9	720.7	711.5	704.9
7.5°	761.9	759.8	758.8	757.3	755.8	753.7	751.7	750.2	738.0	727.3	719.2
10°	791.8	790.8	790.3	788.3	788.3	785.2	784.7	781.2	767.9	758.3	751.2
12.5°	833.5	831.5	831.0	828.4	829.4	828.4	827.4	825.4	815.8	804.5	794.9
15°	885.4	885.4	882.8	880.8	881.3	880.3	882.3	879.8	873.7	863.5	847.7
17.5°	947.9	946.9	947.9	946.4	947.3	948.4	945.8	946.4	943.3	930.6	907.2
20°	1020.5	1019.0	1025.2	1022.6	1028.2	1023.1	1024.1	1025.6	1025.6	1008.8	977.3
22.5°	1103.9	1102.9	1102.9	1108.0	1110.0	1110.5	1112.5	1114.1	1118.2	1096.8	1046.5
25°	1187.3	1190.8	1191.3	1198.0	1201.0	1201.0	1202.5	1208.1	1220.3	1190.8	1125.8
27.5°	1272.1	1280.8	1282.8	1287.4	1292.0	1296.5	1300.1	1304.2	1324.0	1292.0	1207.1
30°	1357.0	1366.7	1373.8	1378.9	1384.4	1395.7	1397.7	1405.8	1438.9	1399.7	1284.4
32.5°	1456.6	1470.4	1479.5	1486.1	1494.7	1505.4	1511.5	1521.7	1553.7	1489.7	1340.8
35°	1575.5	1583.7	1596.9	1608.1	1613.2	1631.5	1641.1	1643.6	1668.1	1567.4	1382.4
37.5°	1657.9	1671.6	1694.5	1710.2	1719.4	1729.6	1745.8	1756.5	1779.9	1638.1	1403.3
40°	1762.6	1783.4	1801.7	1825.1	1839.8	1847.5	1863.7	1872.4	1875.4	1698.5	1396.7
42.5°	1890.2	1909.0	1933.4	1952.2	1963.4	1972.0	1985.2	1988.8	1949.1	1727.0	1361.1
45°	2010.1	2039.1	2059.9	2073.7	2081.8	2086.3	2094.5	2095.0	2010.1	1712.8	1300.1
47.5°	2139.2	2160.1	2179.4	2189.0	2188.0	2189.0	2186.0	2183.9	2040.6	1663.5	1221.8
50°	2282.0	2295.7	2303.9	2308.4	2311.0	2301.4	2287.6	2278.4	2043.1	1593.4	1142.5
52.5°	2473.6	2490.9	2489.4	2488.9	2468.5	2459.4	2422.8	2404.0	2028.4	1511.0	1053.1
55°	2959.0	2942.2	2909.2	2925.5	2842.6	2799.4	2742.5	2689.6	2047.7	1432.7	949.4
57.5°	4058.8	4065.5	3971.4	3921.1	3781.3	3606.5	3465.7	3329.0	2221.6	1385.0	814.2
60°	5206.4	5120.0	5000.6	4818.7	4638.8	4379.0	4128.5	3891.7	2394.8	1335.2	654.1
62.5°	5707.6	5584.6	5404.2	5168.9	4886.3	4568.6	4256.6	3967.9	2311.0	1174.0	475.7
65°	5605.9	5417.9	5218.7	4943.2	4599.6	4251.5	3887.0	3592.3	1933.4	875.7	293.3
67.5°	5074.3	4914.7	4704.3	4377.5	4010.0	3647.7	3313.7	2983.4	1436.3	545.9	164.2
70°	4283.0	4127.0	3913.5	3579.1	3212.1	2865.5	2511.7	2242.4	915.4	263.3	118.4
72.5°	2971.2	2844.7	2693.7	2455.3	2133.6	1818.5	1579.1	1372.3	507.2	139.7	108.2
75°	1206.6	1207.1	1179.7	1079.0	911.8	786.2	670.4	568.7	211.9	118.9	106.7
77.5°	273.4	278.0	304.0	288.2	259.7	242.9	217.5	192.1	129.1	122.5	107.8
80°	138.2	138.8	137.2	137.8	136.2	136.7	134.7	133.1	121.0	126.1	107.8
82.5°	115.4	117.9	117.4	117.4	117.9	117.9	117.9	117.4	125.5	132.7	104.2
85°	91.5	96.5	100.6	104.7	109.3	112.3	113.8	115.4	122.0	130.6	94.6
87.5°	69.1	75.2	80.3	84.4	91.5	91.5	96.5	100.1	100.1	102.2	49.8
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: P159316

CATALOG NUMBER: VST-F03-LED-E-U-T2-7050

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	729.8	729.8	729.8	729.8	729.8
2.5°	704.9	702.9	700.9	699.8	697.8
5°	699.8	695.8	693.2	693.2	691.2
7.5°	714.6	713.0	709.5	707.5	709.5
10°	746.1	743.6	739.5	736.4	738.0
12.5°	788.3	778.1	770.0	766.4	763.9
15°	832.0	811.7	795.4	786.2	783.7
17.5°	878.8	843.2	818.8	805.1	802.5
20°	926.5	882.3	847.7	830.0	829.4
22.5°	983.9	925.0	880.8	857.4	855.9
25°	1044.4	963.1	904.7	874.7	871.6
27.5°	1096.8	993.6	919.4	883.9	880.8
30°	1140.5	1016.5	931.6	890.5	886.4
32.5°	1172.0	1029.7	936.7	892.5	887.9
35°	1182.2	1024.6	922.4	874.2	869.1
37.5°	1168.4	991.6	882.8	829.4	823.4
40°	1127.3	933.7	818.3	763.4	755.8
42.5°	1064.3	862.5	740.5	688.1	678.5
45°	986.5	782.2	663.2	604.8	600.2
47.5°	905.2	697.8	576.4	523.5	517.9
50°	817.3	600.2	491.5	434.0	434.0
52.5°	712.6	505.2	392.9	349.7	346.1
55°	592.1	398.0	313.1	280.0	275.5
57.5°	462.5	305.9	250.1	230.8	225.7
60°	340.0	229.7	201.2	190.6	188.6
62.5°	230.8	174.8	162.1	157.6	157.0
65°	156.1	136.2	132.7	131.1	131.6
67.5°	119.9	113.3	111.8	111.3	111.3
70°	104.2	100.1	98.6	99.1	98.6
72.5°	98.1	92.5	93.0	94.0	93.5
75°	96.1	88.9	91.0	91.5	89.5
77.5°	94.6	84.9	89.9	91.5	85.9
80°	91.5	81.3	93.5	94.0	84.4
82.5°	83.9	72.2	93.5	86.4	76.3
85°	71.2	54.9	105.7	75.2	56.4
87.5°	45.2	32.5	71.6	51.4	34.1
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)