

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: P159528

Luminaire Tested: **VST-E03-LED-E-U-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159528
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-E03-LED-E-U-T3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7743.7 lumens
Efficiency: N/A
Efficacy: 103.0 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

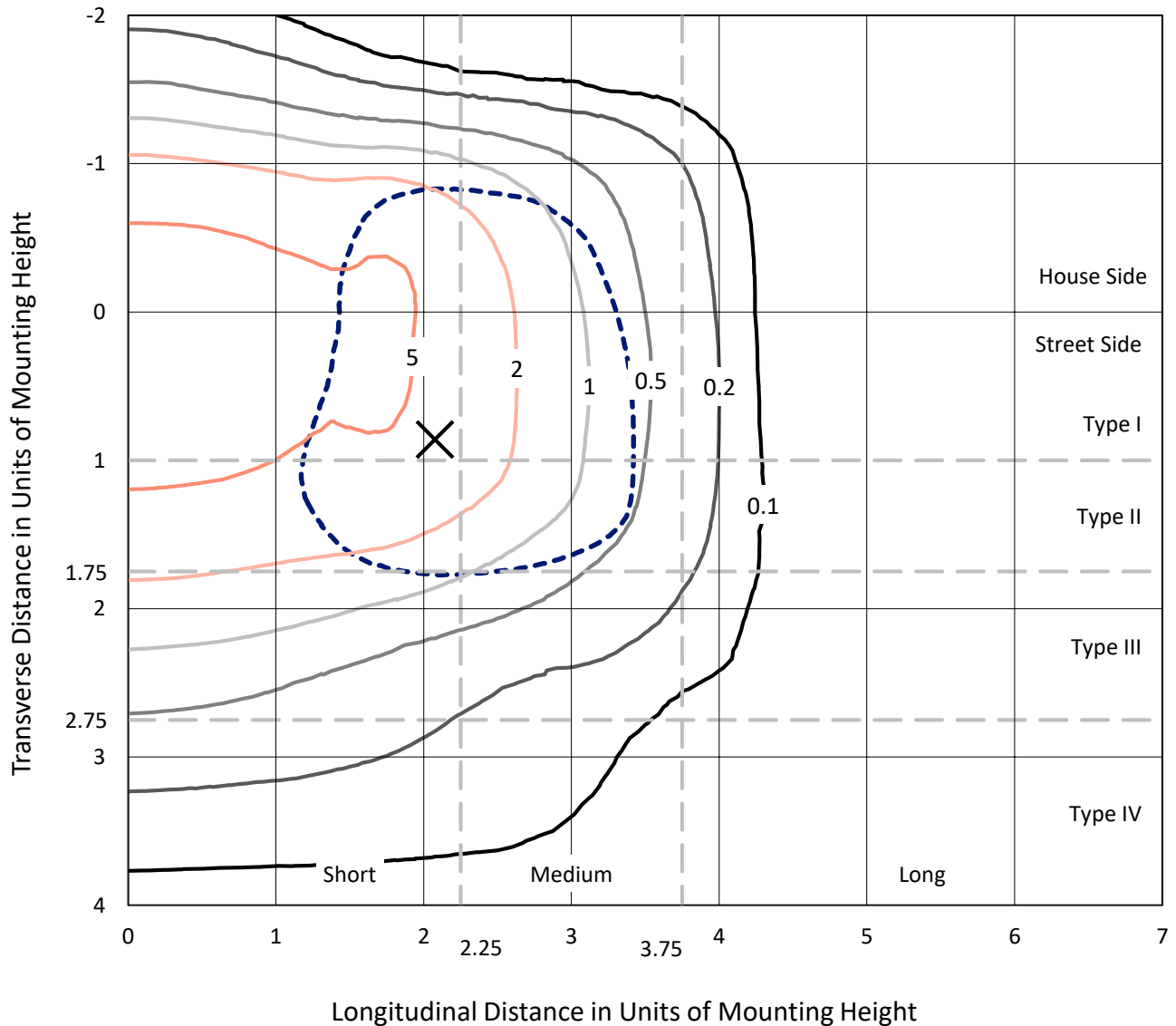
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P159528
 CATALOG NUMBER: VST-E03-LED-E-U-T3-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

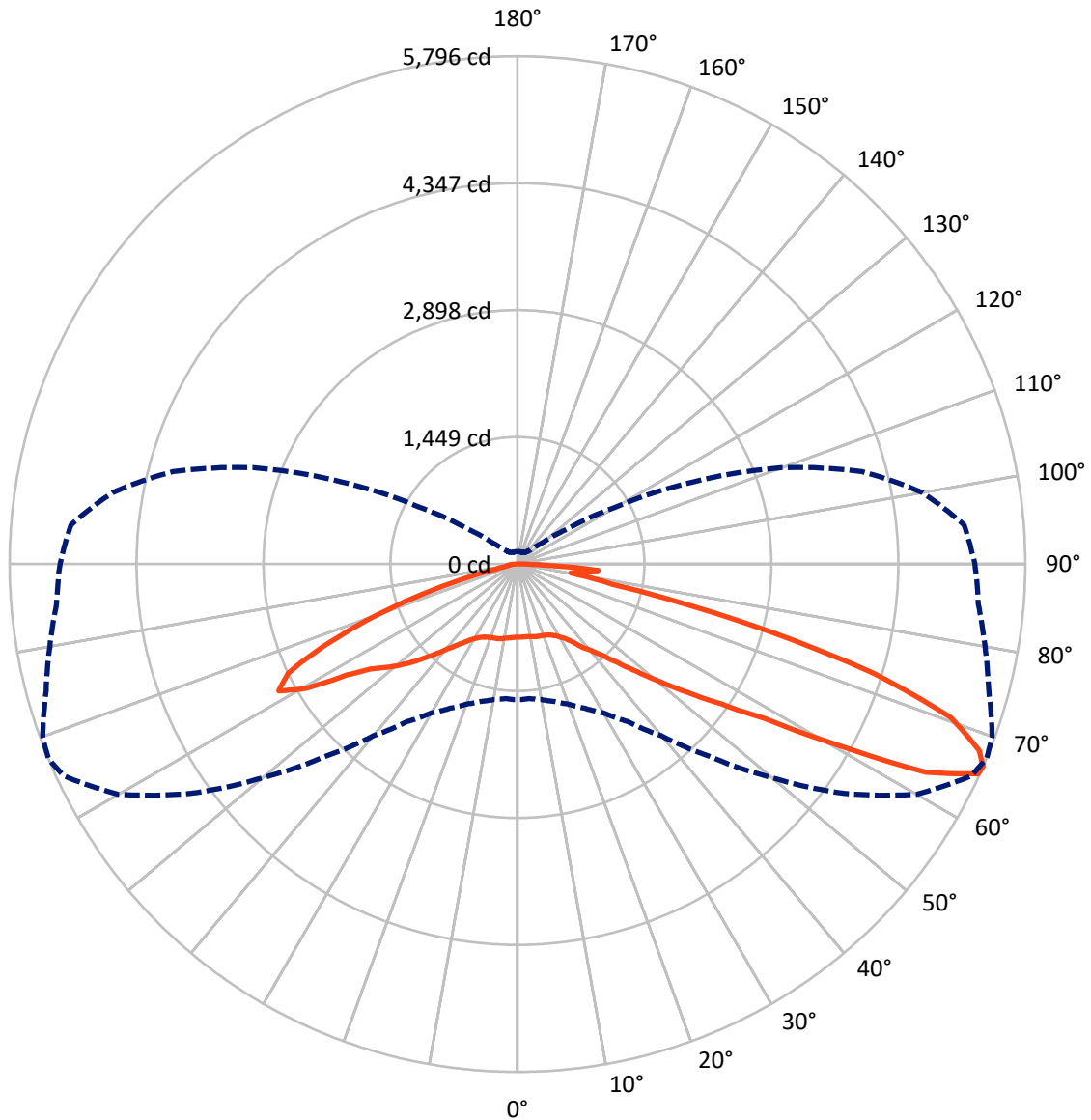


Based on 10 foot mounting height. Maximum calculated value = 8.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P159528

CATALOG NUMBER: VST-E03-LED-E-U-T3-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

REPORT NUMBER: P159528

CATALOG NUMBER: VST-E03-LED-E-U-T3-8030

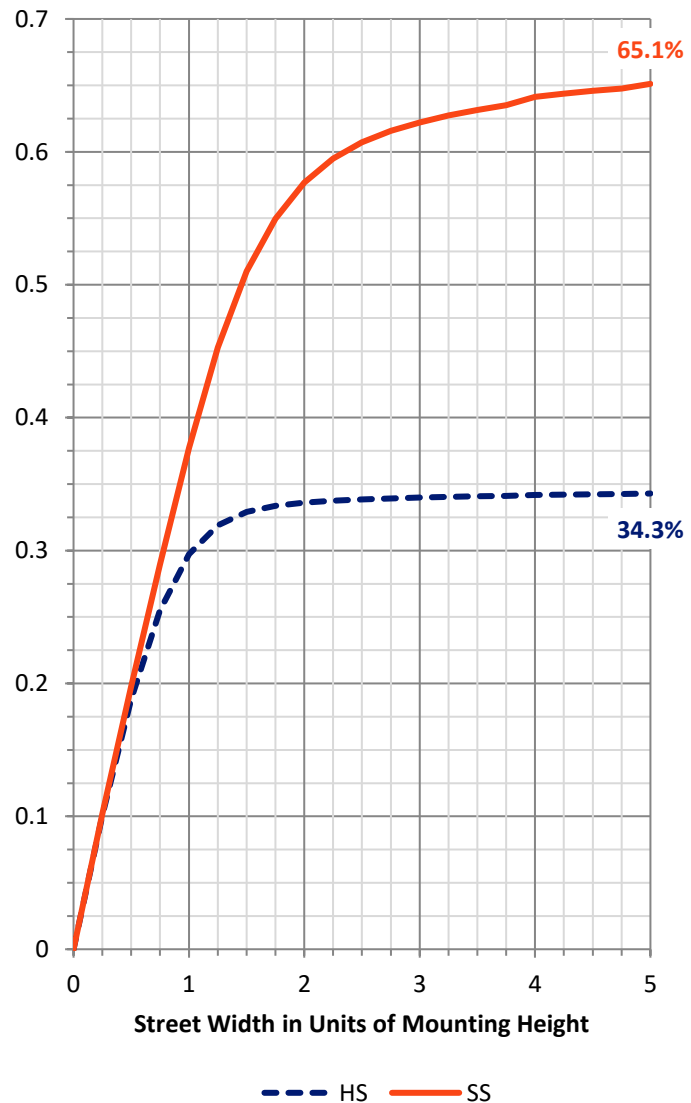
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2679.7	0.0	2679.7
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	5064.0	0.0	5064.0
	% Fixture	65.4	0.0	65.4
Total	Lumens	7743.7	0.0	7743.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	80.2	1.0
10°-20°	237.4	3.1
20°-30°	408.1	5.3
30°-40°	659.6	8.5
40°-50°	1093.1	14.1
50°-60°	1715.6	22.2
60°-70°	2345.5	30.3
70°-80°	1031.5	13.3
80°-90°	172.6	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°	7743.7	100.0
0°-180°	7743.7	100.0



REPORT NUMBER: P159528

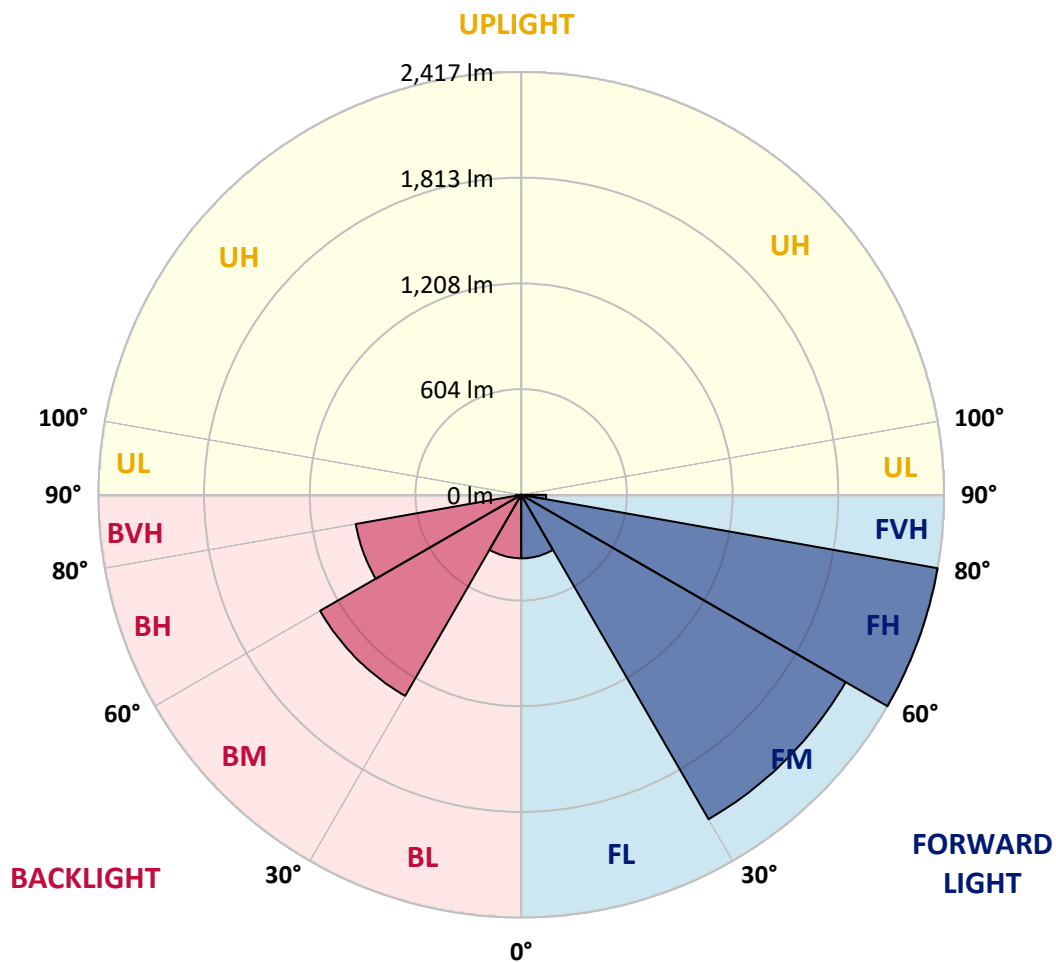
CATALOG NUMBER: VST-E03-LED-E-U-T3-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	363.2	4.7			
FM	(30°-60°)	2141.4	27.7			
FH	(60°-80°)	2417.0	31.2			G2/5000
FVH	(80°-90°)	142.4	1.8			G2/225
BL	(0°-30°)	362.5	4.7	B1/500		
BM	(30°-60°)	1327.0	17.1	B2/2500		
BH	(60°-80°)	960.0	12.4	B2/1000		G2/1000
BVH	(80°-90°)	30.2	0.4			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





REPORT NUMBER: P159528

CATALOG NUMBER: VST-E03-LED-E-U-T3-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6
2.5°	834.1	834.1	834.5	834.1	834.1	833.5	835.6	835.6	835.6	835.0	836.6
5°	832.0	832.0	832.5	832.5	833.0	832.5	834.1	834.5	834.5	834.5	836.0
7.5°	826.9	828.5	827.5	827.9	828.5	830.0	832.0	833.0	834.1	835.6	836.0
10°	816.3	818.8	818.3	819.8	820.4	824.9	826.4	828.5	832.0	834.1	835.6
12.5°	801.6	803.2	803.6	805.7	807.7	813.2	817.3	820.9	825.9	831.0	836.0
15°	790.0	791.0	791.0	793.0	796.1	801.1	806.2	812.3	819.8	828.5	836.6
17.5°	793.5	796.1	794.0	793.5	794.5	797.6	802.1	807.2	816.3	825.9	835.6
20°	816.8	817.3	816.3	813.8	811.7	812.3	812.3	813.2	818.8	826.4	834.1
22.5°	836.0	838.1	837.6	838.1	837.6	839.6	838.6	836.6	834.5	835.0	838.6
25°	852.8	854.8	854.8	856.3	858.8	862.9	865.9	865.4	862.4	858.4	856.8
27.5°	880.1	880.1	880.1	881.6	885.2	890.2	895.3	898.3	900.9	896.8	888.2
30°	923.2	923.6	922.1	922.7	925.2	931.7	937.9	942.4	947.5	947.0	935.8
32.5°	970.3	972.3	971.8	973.8	977.3	983.4	990.0	997.1	1003.7	1007.7	1000.6
35°	1031.0	1033.0	1033.6	1036.6	1040.6	1049.8	1058.9	1068.0	1075.1	1078.1	1076.6
37.5°	1130.8	1131.3	1129.3	1124.7	1126.2	1133.3	1144.0	1158.7	1163.2	1166.2	1173.3
40°	1280.2	1278.7	1270.6	1266.5	1264.0	1267.0	1265.0	1276.6	1287.2	1287.8	1287.2
42.5°	1461.5	1456.9	1449.3	1448.3	1447.3	1446.2	1440.7	1441.2	1450.8	1453.4	1450.3
45°	1641.7	1636.1	1630.6	1635.7	1629.6	1645.3	1649.8	1662.0	1663.5	1668.6	1661.0
47.5°	1789.6	1790.1	1790.1	1797.2	1809.4	1839.2	1866.1	1889.3	1898.0	1910.1	1911.7
50°	1901.5	1904.5	1914.2	1937.0	1962.8	2012.9	2058.0	2100.0	2138.0	2152.2	2189.6
52.5°	1966.9	1975.0	1995.2	2033.2	2079.2	2144.1	2215.0	2286.4	2352.2	2407.9	2452.4
55°	1955.2	1961.3	1996.7	2056.0	2127.8	2215.0	2314.2	2417.5	2520.3	2614.5	2687.5
57.5°	1880.2	1884.3	1919.8	1986.6	2076.2	2193.2	2333.5	2486.9	2631.2	2783.2	2907.7
60°	1782.0	1788.1	1821.0	1873.7	1967.3	2091.9	2254.4	2462.6	2693.0	2932.0	3164.9
62.5°	1719.2	1717.7	1746.5	1793.6	1864.0	1976.9	2133.4	2380.1	2699.1	3103.2	3563.5
65°	1614.9	1610.3	1640.2	1693.9	1770.4	1879.7	2028.1	2265.1	2635.3	3168.0	3820.7
66°	1550.1	1541.0	1570.9	1625.0	1701.5	1817.9	1960.3	2194.2	2557.8	3104.7	3793.4
67.5°	1436.6	1432.1	1446.2	1488.8	1545.5	1654.9	1803.3	2038.7	2374.5	2914.3	3592.9
70°	1167.7	1157.6	1168.7	1188.0	1209.8	1236.6	1327.7	1514.6	1798.7	2321.8	2894.6
72.5°	795.5	790.5	811.3	840.6	898.9	926.2	962.2	992.5	1092.8	1463.5	2019.0
75°	605.2	608.2	634.5	683.1	758.1	839.1	918.1	947.0	913.6	884.7	1146.0
77.5°	339.3	357.0	388.9	450.7	530.2	644.6	782.4	934.3	1010.3	991.5	927.2
80°	139.7	137.2	152.9	186.8	214.2	307.9	470.9	661.4	875.0	1010.3	989.0
82.5°	39.0	40.0	51.7	66.4	85.6	108.9	170.2	273.5	445.6	693.2	907.4
85°	12.2	12.2	16.7	24.8	29.4	33.9	43.0	70.9	121.0	241.6	489.7
87.5°	2.5	2.5	3.5	7.1	7.6	7.6	9.6	13.1	11.6	10.6	47.6
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: P159528

CATALOG NUMBER: VST-E03-LED-E-U-T3-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6
2.5°	835.0	834.1	834.5	835.0	834.5	834.5	834.1	833.5	834.1	834.1	835.6
5°	834.5	834.1	834.5	834.5	834.5	835.0	835.0	835.0	836.6	836.6	839.1
7.5°	835.6	835.6	836.6	836.6	836.6	836.6	837.1	838.1	840.6	840.1	844.7
10°	837.6	838.6	841.1	841.6	841.6	843.1	844.1	846.2	848.7	849.7	853.8
12.5°	840.1	845.2	849.7	850.7	852.2	854.8	856.3	857.3	861.9	863.4	868.4
15°	843.1	850.3	855.8	857.8	859.9	862.9	864.9	866.5	870.5	872.5	878.6
17.5°	843.7	851.8	858.4	861.4	863.9	867.5	870.5	873.5	878.1	881.1	887.2
20°	843.1	853.8	863.9	868.0	870.5	877.1	881.6	885.7	891.2	894.3	900.4
22.5°	848.7	860.9	874.6	879.6	883.7	892.8	898.9	905.5	912.5	914.5	919.1
25°	861.9	874.6	891.8	898.9	905.9	918.1	926.7	936.3	943.4	944.4	946.0
27.5°	884.2	895.8	916.6	927.2	938.9	956.1	968.8	978.4	988.5	988.5	987.5
30°	929.2	931.7	953.5	967.2	984.4	1009.7	1028.5	1039.1	1046.7	1046.7	1038.1
32.5°	987.5	984.4	1004.2	1018.9	1042.7	1078.1	1103.5	1111.6	1119.7	1117.1	1102.4
35°	1071.5	1062.9	1074.1	1096.3	1123.2	1171.8	1198.1	1216.4	1221.4	1214.3	1191.1
37.5°	1177.4	1176.4	1181.9	1206.7	1236.6	1299.4	1326.2	1337.9	1333.9	1321.2	1280.2
40°	1289.3	1286.2	1282.7	1299.4	1332.8	1408.3	1455.9	1462.0	1456.4	1437.7	1386.0
42.5°	1438.7	1438.7	1421.9	1426.5	1454.3	1538.9	1595.2	1614.4	1614.9	1587.5	1518.7
45°	1644.2	1642.3	1612.9	1605.8	1627.0	1710.1	1782.5	1793.2	1793.2	1757.2	1681.7
47.5°	1891.4	1888.9	1860.0	1835.2	1839.2	1928.9	1989.1	2005.3	1991.2	1964.3	1874.7
50°	2169.9	2165.3	2136.0	2112.7	2102.6	2193.2	2244.4	2251.9	2231.2	2199.3	2102.0
52.5°	2452.4	2466.1	2448.9	2436.2	2439.8	2498.6	2551.2	2515.3	2504.6	2470.2	2372.5
55°	2746.7	2788.7	2826.7	2815.6	2828.7	2885.9	2896.1	2848.4	2829.2	2804.4	2695.6
57.5°	3042.9	3165.5	3290.0	3325.0	3357.4	3439.4	3427.8	3349.8	3364.5	3401.5	3278.9
60°	3456.7	3810.6	4126.6	4184.8	4285.6	4355.5	4371.2	4356.0	4424.3	4405.1	4296.8
62.5°	4092.2	4682.1	5121.7	5231.0	5332.3	5328.8	5275.6	5220.9	5288.3	5288.3	5005.2
65°	4545.9	5215.4	5685.8	5776.4	5772.4	5650.4	5524.7	5415.4	5405.8	5330.8	4917.1
66°	4567.2	5256.4	5717.2	5796.2	5765.8	5569.3	5418.9	5280.2	5220.9	5116.6	4692.8
67.5°	4375.7	5140.4	5614.9	5683.8	5603.8	5322.2	5115.1	4929.2	4843.1	4667.5	4268.4
70°	3589.3	4417.8	5108.0	5248.8	5158.1	4801.6	4518.1	4266.9	4102.3	3848.6	3560.9
72.5°	2620.1	3261.7	4009.1	4238.0	4223.8	3895.7	3667.3	3437.4	3221.2	2990.3	2780.1
75°	1703.0	2121.8	2538.5	2672.2	2608.0	2418.1	2254.4	2120.3	1915.2	1754.6	1715.6
77.5°	972.3	1188.0	1123.7	1107.0	1026.5	828.5	551.0	386.4	348.9	435.5	477.5
80°	925.2	838.6	686.7	619.3	569.2	387.9	203.6	143.3	125.6	128.6	138.2
82.5°	1043.2	1087.2	889.2	742.9	646.7	472.0	257.8	120.0	87.6	103.8	116.5
85°	781.9	1100.9	1091.3	924.7	758.6	543.8	304.9	91.7	52.7	72.9	95.2
87.5°	158.5	260.8	251.2	220.8	187.9	131.2	51.1	28.9	26.3	35.9	54.7
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: P159528

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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6	835.6
2.5°	836.6	836.6	837.6	839.1	839.6	839.6	840.6	839.6	841.6	842.2	842.6
5°	841.1	842.6	843.7	846.2	847.7	848.7	850.3	849.2	851.2	851.8	852.8
7.5°	846.2	848.7	850.7	851.8	853.8	853.8	854.3	853.3	852.8	851.2	850.7
10°	855.3	856.8	859.4	858.4	857.3	853.8	850.7	846.2	843.7	839.1	836.6
12.5°	870.0	871.0	871.0	866.5	859.9	851.8	844.1	836.6	830.5	825.4	822.4
15°	880.1	882.1	879.6	873.0	863.4	852.2	842.2	832.0	823.9	817.3	813.2
17.5°	887.7	887.2	882.7	873.5	864.4	854.8	845.7	835.0	824.9	815.3	809.2
20°	899.3	894.3	886.2	876.5	866.9	858.8	851.8	841.6	831.0	817.8	808.7
22.5°	915.1	905.9	894.3	884.2	875.0	867.5	859.4	850.7	839.6	824.9	812.3
25°	937.3	921.7	908.5	898.3	890.2	881.6	872.5	861.4	850.3	835.0	819.8
27.5°	971.3	948.0	931.3	922.1	914.5	902.9	891.2	878.1	863.9	848.2	831.0
30°	1012.3	984.4	965.2	957.1	948.0	934.8	922.1	903.9	884.2	865.4	844.1
32.5°	1060.4	1032.1	1012.8	1006.7	992.0	976.9	959.1	934.8	909.0	881.1	855.8
35°	1133.3	1097.3	1079.6	1065.5	1045.2	1027.0	997.1	965.2	928.2	891.2	859.9
37.5°	1208.3	1171.8	1153.6	1133.8	1107.5	1074.1	1034.0	988.5	939.4	893.8	855.3
40°	1308.5	1269.0	1245.7	1215.4	1172.8	1120.7	1061.4	999.1	939.4	882.7	836.0
42.5°	1425.5	1389.1	1353.1	1303.0	1234.6	1158.7	1075.6	995.6	923.2	857.8	808.7
45°	1587.5	1525.3	1468.0	1387.5	1287.8	1180.9	1077.1	978.8	895.3	822.9	768.2
47.5°	1769.8	1689.4	1588.1	1462.0	1325.8	1189.5	1062.4	947.5	851.2	772.7	713.0
50°	1980.0	1856.5	1701.0	1521.2	1345.0	1177.9	1027.5	894.8	790.5	700.3	636.5
52.5°	2220.5	2032.1	1803.3	1563.2	1342.0	1142.4	969.7	825.4	709.0	613.3	550.4
55°	2487.4	2223.6	1901.0	1590.1	1314.6	1073.6	879.1	727.7	607.7	513.5	458.3
57.5°	2957.9	2559.3	2087.3	1626.1	1257.4	969.2	764.2	604.1	495.8	415.7	363.1
60°	3831.9	3146.2	2440.3	1710.6	1171.3	838.6	619.3	474.0	383.3	325.1	286.1
62.5°	4372.7	3559.4	2612.5	1698.4	1031.5	659.8	459.8	351.4	280.0	241.6	217.3
65°	4244.6	3397.4	2402.3	1458.9	802.6	467.9	304.3	229.9	192.4	172.7	161.0
66°	4070.4	3216.1	2224.6	1306.5	699.4	391.0	251.2	193.0	165.6	150.9	144.8
67.5°	3705.3	2884.9	1918.7	1046.2	524.1	291.2	185.3	151.4	134.7	127.1	123.1
70°	3101.2	2324.3	1357.1	617.8	284.1	158.0	118.5	105.4	101.3	98.8	97.2
72.5°	2397.8	1682.8	793.0	303.8	143.3	102.3	90.1	84.5	83.0	83.0	83.6
75°	1510.6	967.2	355.0	146.3	97.2	82.6	77.0	74.5	74.9	75.5	74.9
77.5°	501.8	333.7	147.8	103.8	84.5	74.9	70.4	69.4	70.4	70.9	70.9
80°	144.3	126.1	106.9	91.7	77.5	69.9	65.8	65.3	67.9	68.3	67.4
82.5°	110.9	103.8	96.7	88.6	74.5	65.8	64.3	64.8	66.4	65.3	60.8
85°	101.8	100.8	72.4	71.9	64.8	62.8	61.3	61.8	60.2	54.7	49.6
87.5°	57.2	53.2	41.0	41.5	48.1	49.6	41.0	43.6	40.5	35.5	32.4
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: P159528

CATALOG NUMBER: VST-E03-LED-E-U-T3-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	835.6	835.6	835.6	835.6	835.6
2.5°	843.7	843.1	843.1	844.7	842.6
5°	853.3	852.8	852.8	854.3	852.8
7.5°	848.7	847.2	846.2	845.7	845.7
10°	833.5	832.0	829.0	827.9	826.9
12.5°	817.8	816.3	812.8	812.8	811.7
15°	808.2	806.2	803.6	802.1	801.1
17.5°	803.2	800.1	797.0	795.5	794.5
20°	801.1	797.0	793.5	791.0	791.0
22.5°	801.6	796.6	792.5	789.5	788.5
25°	806.7	799.1	794.0	791.0	790.0
27.5°	813.8	804.7	798.1	794.0	792.5
30°	823.4	810.7	801.6	796.6	794.5
32.5°	830.0	812.3	800.6	793.5	791.0
35°	829.5	806.7	792.5	783.4	780.4
37.5°	820.4	793.5	774.8	763.6	758.6
40°	800.1	769.2	749.5	738.8	732.8
42.5°	770.8	737.3	719.6	707.9	701.3
45°	724.7	691.7	670.0	660.8	652.3
47.5°	660.8	627.4	608.7	595.5	589.9
50°	585.9	552.5	532.7	522.1	517.0
52.5°	503.9	472.0	457.8	447.7	440.6
55°	418.8	389.4	383.3	372.2	365.6
57.5°	338.8	321.5	316.0	304.9	299.3
60°	264.8	259.3	253.2	246.1	243.1
62.5°	205.1	200.0	198.5	193.9	193.4
65°	156.5	157.0	155.9	155.0	154.0
66°	142.3	141.8	142.3	141.3	140.8
67.5°	121.0	123.1	124.6	124.1	124.1
70°	98.2	99.8	101.8	101.3	101.3
72.5°	84.1	86.6	87.6	87.1	87.1
75°	76.0	78.5	78.5	77.5	77.0
77.5°	70.9	71.9	70.9	69.9	68.9
80°	65.8	64.8	63.3	61.8	60.8
82.5°	57.2	54.7	53.2	50.6	50.6
85°	46.1	44.0	40.5	38.0	35.5
87.5°	29.9	28.9	26.3	19.7	15.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)