

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: P157979

Luminaire Tested: **VST-E02-LED-E-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157979
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-E02-LED-E-U-RW-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5690.9 lumens
Efficiency: N/A
Efficacy: 109.2 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B3 - U0 - G3

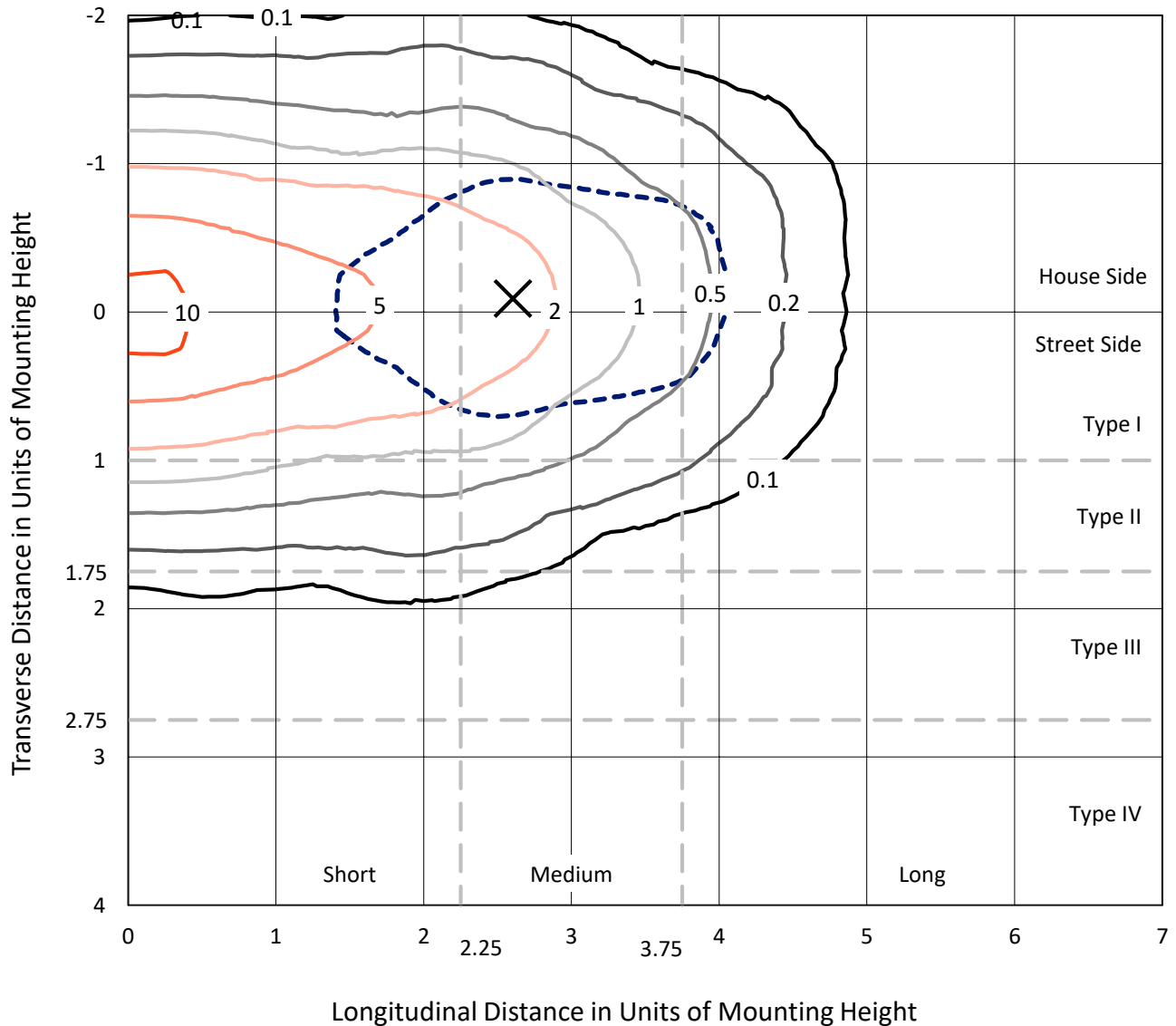
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

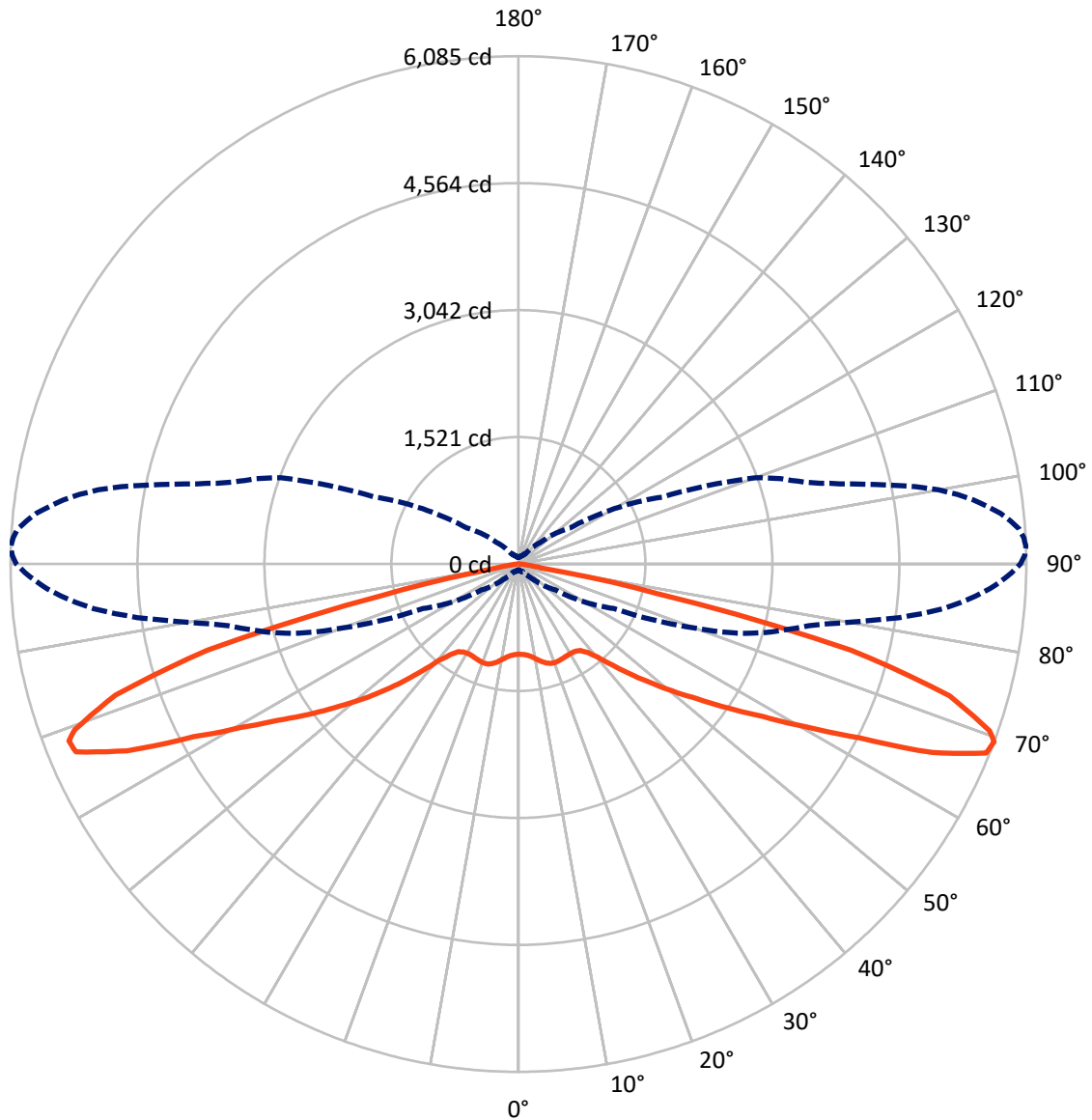
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.1 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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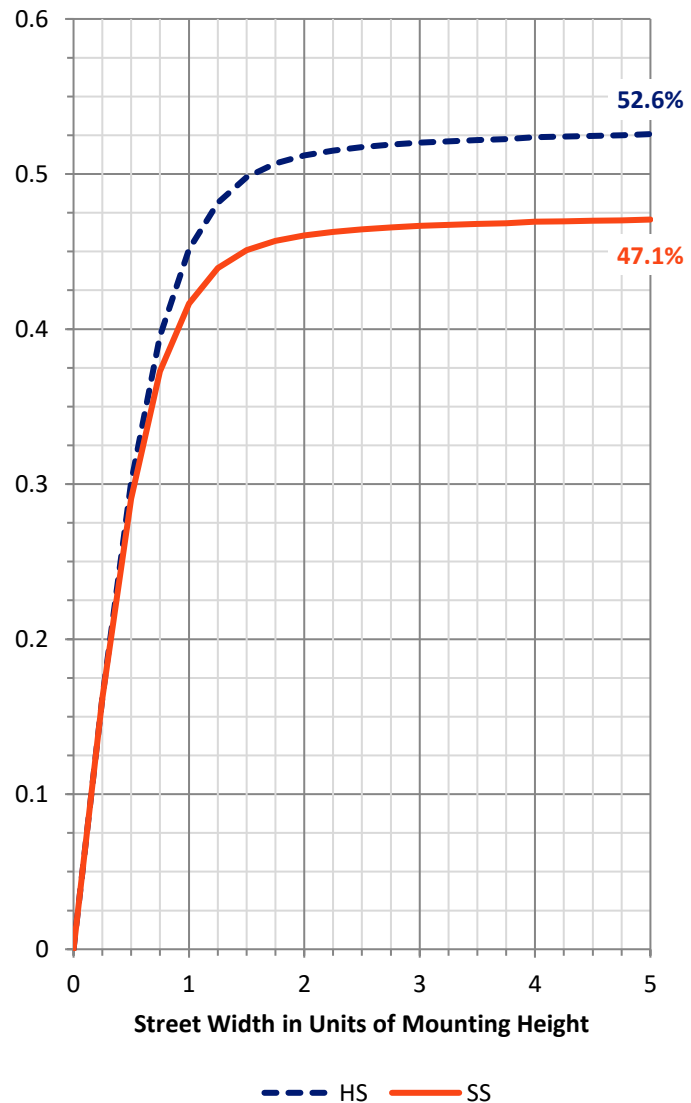
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3018.2	0.0	3018.2
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	2672.7	0.0	2672.7
	% Fixture	47.0	0.0	47.0
Total	Lumens	5690.9	0.0	5690.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	105.8	1.9
10°-20°	334.2	5.9
20°-30°	542.1	9.5
30°-40°	675.7	11.9
40°-50°	841.3	14.8
50°-60°	1037.5	18.2
60°-70°	1288.5	22.6
70°-80°	791.7	13.9
80°-90°	74.2	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°	5690.9	100.0
0°-180°	5690.9	100.0



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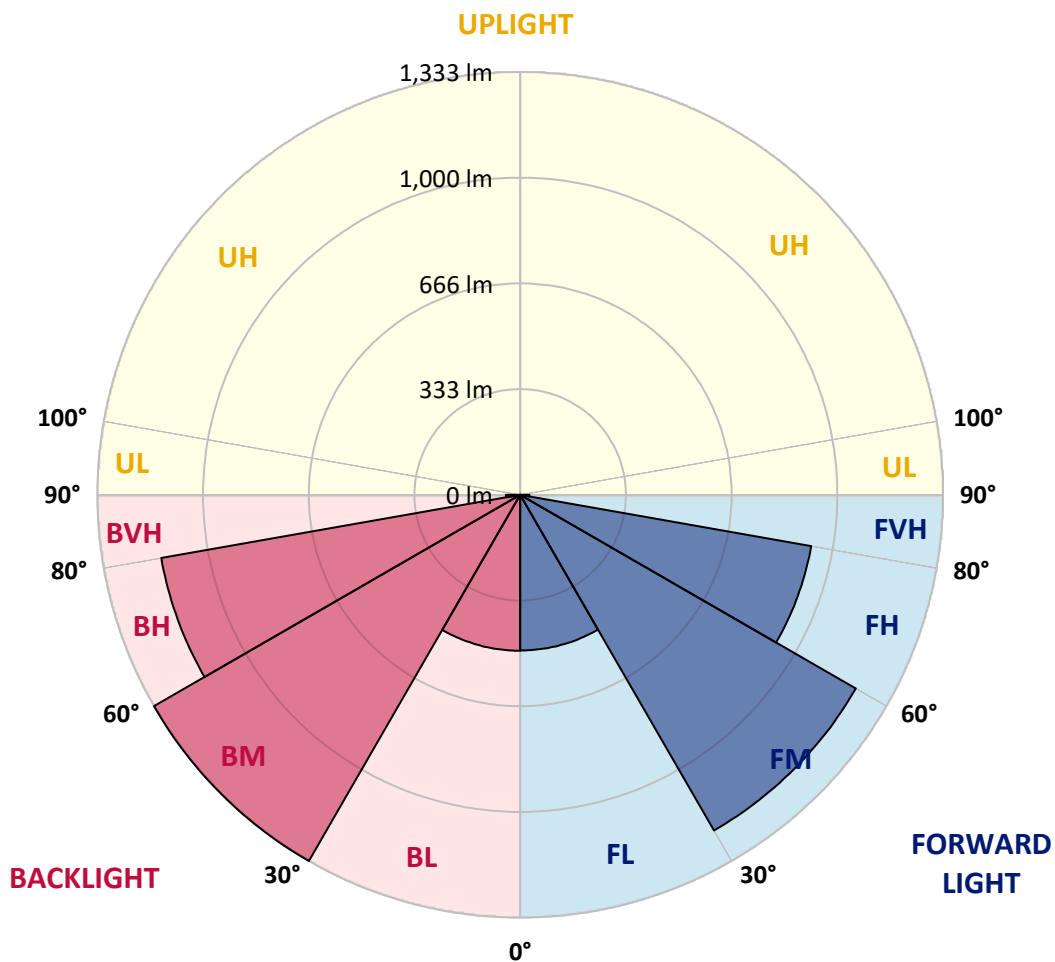
CATALOG NUMBER: VST-E02-LED-E-U-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	490.5	8.6			
FM	(30°-60°)	1221.6	21.5			
FH	(60°-80°)	931.5	16.4			G1/1800
FVH	(80°-90°)	29.1	0.5			G1/100
BL	(0°-30°)	491.6	8.6	B1/500		
BM	(30°-60°)	1332.8	23.4	B2/2500		
BH	(60°-80°)	1148.7	20.2	B3/2500		G3/2500
BVH	(80°-90°)	45.2	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°	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0
2.5°	1098.2	1095.3	1097.8	1098.2	1097.8	1097.8	1094.6	1093.8	1089.4	1090.6	1090.2
5°	1113.2	1112.1	1113.9	1114.7	1115.4	1113.9	1111.4	1110.2	1107.4	1106.2	1105.9
7.5°	1127.1	1125.2	1128.2	1130.7	1132.6	1132.9	1133.3	1131.5	1131.5	1130.0	1130.0
10°	1138.7	1137.3	1142.0	1145.3	1151.2	1154.5	1158.1	1160.7	1162.1	1162.5	1162.1
12.5°	1143.9	1142.8	1150.4	1160.3	1171.3	1178.9	1188.1	1194.7	1196.5	1196.1	1198.0
15°	1135.1	1135.9	1147.6	1166.9	1190.3	1209.7	1222.4	1227.9	1229.3	1230.1	1230.5
17.5°	1111.4	1112.8	1129.6	1161.1	1202.0	1237.0	1256.0	1256.0	1253.1	1253.1	1252.7
20°	1073.3	1074.8	1096.7	1142.0	1202.3	1256.0	1283.1	1277.6	1266.7	1264.4	1262.3
22.5°	1020.8	1026.6	1050.7	1103.3	1186.6	1261.5	1299.9	1291.9	1274.7	1269.9	1266.7
25°	961.2	960.5	989.3	1048.5	1148.6	1248.4	1304.6	1303.1	1284.9	1279.8	1273.9
27.5°	893.3	895.4	922.1	982.0	1090.6	1210.4	1296.6	1316.0	1301.0	1295.9	1290.4
30°	823.5	825.7	850.9	920.6	1024.4	1156.0	1280.2	1328.4	1322.5	1318.5	1314.8
32.5°	753.4	754.1	784.0	858.9	968.5	1090.9	1255.3	1339.7	1347.7	1345.9	1344.5
35°	687.6	688.3	720.8	796.8	913.4	1035.4	1225.4	1356.1	1382.1	1384.3	1385.8
37.5°	623.6	624.7	658.0	737.6	858.9	993.4	1192.1	1381.4	1430.3	1438.3	1439.8
40°	560.0	561.2	592.9	677.3	803.8	956.5	1166.5	1416.8	1495.3	1506.3	1517.6
42.5°	499.4	503.5	530.5	611.2	742.4	910.8	1155.6	1459.9	1572.4	1589.6	1602.4
45°	442.8	443.2	473.8	549.5	669.7	849.1	1148.3	1508.9	1658.6	1684.6	1702.1
47.5°	382.1	386.5	418.7	492.1	601.7	772.7	1124.9	1566.2	1752.5	1782.8	1818.3
50°	323.3	329.5	360.6	433.3	539.6	693.8	1062.1	1633.4	1858.1	1897.6	1938.5
52.5°	266.7	266.3	299.2	374.8	477.1	626.9	960.1	1703.9	1980.1	2022.5	2066.7
55°	201.7	201.7	234.2	303.2	409.6	567.4	850.9	1747.8	2093.4	2144.5	2192.8
57.5°	138.5	142.1	172.8	232.4	339.1	512.9	767.2	1722.6	2180.0	2243.6	2300.9
60°	102.7	106.3	128.9	167.0	265.3	448.6	704.4	1603.9	2232.2	2316.6	2391.2
62.5°	88.8	91.3	112.9	133.7	191.1	380.3	648.8	1453.0	2307.5	2422.9	2526.7
65°	79.3	81.8	103.4	115.4	149.4	305.8	617.8	1366.7	2397.4	2573.8	2724.4
67.5°	73.4	76.4	94.6	103.4	130.4	276.5	593.7	1346.6	2396.6	2610.7	2802.9
69°	70.5	72.7	87.7	97.2	126.1	267.8	541.4	1259.3	2238.4	2468.2	2661.1
70°	68.7	70.9	83.6	93.2	124.6	252.1	493.2	1143.9	2058.3	2289.6	2485.4
72.5°	62.8	65.0	74.5	83.3	103.7	168.4	343.8	732.1	1470.8	1636.0	1859.9
75°	55.6	58.1	65.4	72.7	78.5	97.6	198.4	380.0	841.0	966.3	1165.8
77.5°	45.3	47.9	55.6	67.2	66.5	74.2	128.9	233.5	393.8	488.5	562.3
80°	37.3	39.1	45.7	68.0	54.4	62.1	104.5	191.5	277.3	306.5	324.1
82.5°	24.8	27.4	35.5	53.3	41.6	44.2	78.2	179.0	234.5	257.2	278.4
85°	11.7	12.8	21.5	28.5	25.2	23.8	44.6	126.4	174.7	185.2	193.3
87.5°	0.0	0.0	1.1	2.2	3.3	3.3	8.0	26.6	49.0	59.2	58.4
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0
2.5°	1088.7	1089.1	1088.7	1088.7	1088.3	1087.6	1087.6	1086.9	1087.3	1086.9	1087.6
5°	1105.5	1105.5	1104.4	1103.7	1104.8	1103.7	1104.1	1102.3	1102.3	1101.1	1099.7
7.5°	1129.6	1129.6	1130.0	1127.8	1129.3	1129.6	1128.5	1127.8	1127.1	1125.2	1125.6
10°	1161.8	1161.8	1162.9	1160.0	1161.4	1162.1	1162.5	1162.5	1161.8	1158.5	1158.8
12.5°	1197.6	1196.9	1197.2	1195.7	1197.2	1198.0	1198.7	1198.0	1198.0	1197.2	1196.9
15°	1230.1	1229.8	1230.5	1229.3	1229.8	1230.5	1232.6	1232.3	1231.9	1229.8	1229.8
17.5°	1252.4	1251.3	1250.6	1250.2	1250.2	1249.8	1250.2	1250.2	1249.1	1248.7	1248.7
20°	1260.8	1257.8	1256.0	1255.0	1253.5	1252.7	1252.0	1252.4	1251.7	1250.6	1250.9
22.5°	1262.3	1258.3	1254.6	1251.3	1248.4	1246.6	1244.7	1244.0	1242.2	1241.0	1241.0
25°	1269.2	1263.0	1257.1	1251.7	1247.3	1243.3	1239.2	1236.3	1234.1	1231.6	1230.8
27.5°	1284.5	1277.9	1271.0	1264.1	1258.3	1250.2	1244.7	1238.9	1233.8	1229.8	1226.8
30°	1308.3	1301.7	1294.7	1286.7	1279.1	1270.7	1261.5	1254.6	1247.3	1239.2	1234.9
32.5°	1339.7	1335.3	1328.4	1320.7	1313.8	1305.0	1294.0	1283.5	1276.5	1267.0	1260.1
35°	1384.6	1379.5	1377.4	1374.1	1367.1	1361.6	1349.6	1339.7	1333.1	1320.0	1314.8
37.5°	1446.0	1445.6	1447.5	1446.4	1447.5	1440.5	1435.1	1434.7	1425.2	1412.4	1400.0
40°	1529.7	1534.1	1543.9	1550.9	1557.4	1558.2	1565.8	1557.8	1558.9	1557.1	1544.3
42.5°	1625.0	1640.0	1651.7	1672.1	1687.9	1702.5	1712.3	1725.8	1736.1	1745.2	1747.4
45°	1731.4	1753.6	1780.7	1798.9	1829.6	1854.1	1887.7	1913.6	1940.7	1967.3	1976.9
47.5°	1846.8	1874.6	1904.5	1938.5	1977.2	2015.6	2067.5	2107.3	2150.8	2186.9	2219.1
50°	1974.3	2003.2	2043.4	2082.4	2135.8	2180.0	2248.0	2300.2	2370.3	2418.5	2460.2
52.5°	2107.3	2143.4	2188.4	2231.5	2285.9	2342.6	2418.2	2495.3	2579.6	2652.7	2713.4
55°	2237.3	2281.9	2325.0	2375.5	2435.7	2501.5	2587.0	2688.5	2793.8	2877.4	2957.8
57.5°	2353.1	2404.7	2455.4	2506.6	2568.4	2644.7	2740.8	2850.4	2971.0	3082.4	3192.7
60°	2460.5	2522.3	2584.4	2648.3	2719.2	2813.5	2929.0	3063.7	3219.7	3372.1	3516.4
62.5°	2630.5	2711.6	2788.6	2871.2	2956.7	3067.4	3203.6	3380.5	3559.5	3749.9	3897.8
65°	2860.6	2974.6	3075.4	3182.5	3293.2	3441.1	3604.1	3815.6	4072.1	4267.2	4504.6
67.5°	2975.0	3125.1	3254.8	3373.9	3510.9	3660.4	3854.0	4104.2	4377.9	4660.6	4925.5
69°	2840.5	2995.4	3139.0	3272.3	3410.8	3555.8	3758.3	4015.1	4304.5	4610.2	4868.9
70°	2666.3	2821.1	2974.3	3126.2	3252.6	3394.0	3597.1	3862.0	4151.0	4468.9	4725.3
72.5°	2042.6	2228.9	2367.4	2509.9	2656.4	2776.2	3010.7	3234.0	3535.0	3857.6	4140.1
75°	1306.8	1478.2	1629.4	1750.7	1893.9	2037.5	2210.7	2458.7	2647.3	2912.1	3141.2
77.5°	671.5	722.3	868.0	911.5	1010.9	1089.1	1184.5	1246.6	1400.0	1432.5	1567.7
80°	318.2	286.8	270.0	254.6	259.0	257.2	249.5	239.3	252.1	246.6	244.4
82.5°	277.3	247.3	197.3	167.7	145.0	123.1	106.0	97.2	98.3	101.2	102.3
85°	194.3	182.7	142.5	108.1	84.4	65.4	52.6	50.4	51.9	55.9	54.4
87.5°	56.3	58.8	51.9	36.2	25.2	18.2	14.2	16.1	15.4	15.0	15.7
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°	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0
2.5°	1087.6	1087.3	1086.2	1085.0	1085.0	1084.3	1085.0	1085.4	1085.0	1085.0	1084.3
5°	1100.0	1100.4	1101.5	1099.3	1099.0	1099.3	1097.8	1097.5	1096.4	1097.5	1096.0
7.5°	1123.8	1124.9	1124.9	1123.4	1123.1	1124.2	1121.9	1121.2	1120.1	1119.8	1119.4
10°	1159.2	1160.3	1158.5	1157.4	1156.3	1157.8	1156.0	1156.0	1154.8	1153.7	1153.4
12.5°	1198.7	1198.0	1197.2	1198.0	1196.9	1196.9	1195.7	1195.0	1194.7	1194.3	1193.6
15°	1229.3	1231.9	1231.9	1232.6	1231.9	1231.9	1230.5	1230.8	1230.1	1229.8	1230.1
17.5°	1249.1	1249.8	1251.7	1252.7	1252.7	1253.1	1252.4	1253.1	1252.4	1252.4	1253.8
20°	1251.7	1252.4	1254.2	1256.0	1257.1	1257.8	1257.8	1259.0	1259.7	1260.4	1262.3
22.5°	1241.4	1242.5	1244.7	1248.0	1249.8	1250.6	1252.0	1253.8	1255.7	1257.1	1259.7
25°	1230.8	1231.2	1233.4	1236.7	1238.9	1240.7	1243.3	1245.4	1248.0	1250.9	1253.8
27.5°	1225.0	1224.6	1226.5	1229.8	1231.6	1234.1	1236.3	1239.6	1242.5	1246.2	1248.7
30°	1230.1	1227.2	1227.5	1229.0	1230.5	1232.3	1234.9	1237.8	1241.0	1244.3	1247.3
32.5°	1252.7	1246.2	1241.8	1240.7	1241.0	1241.4	1242.9	1244.7	1247.3	1249.8	1250.9
35°	1301.7	1290.4	1284.5	1279.8	1275.8	1272.5	1273.2	1272.8	1272.8	1275.1	1272.5
37.5°	1394.9	1380.6	1374.4	1366.0	1361.3	1349.2	1345.9	1345.2	1340.5	1340.5	1334.9
40°	1541.0	1532.6	1527.8	1520.2	1497.2	1500.1	1483.6	1484.0	1470.5	1472.0	1462.4
42.5°	1748.9	1750.0	1744.1	1739.0	1721.1	1713.1	1697.8	1675.8	1658.6	1658.3	1639.3
45°	1989.3	2002.4	1983.8	1990.4	1974.7	1953.1	1935.2	1907.1	1880.4	1872.0	1852.6
47.5°	2240.6	2262.2	2248.0	2250.5	2242.8	2212.1	2188.0	2153.3	2118.6	2095.2	2083.6
50°	2509.1	2523.4	2523.1	2516.1	2512.4	2482.5	2443.7	2417.5	2391.9	2360.5	2350.3
52.5°	2752.5	2785.7	2808.0	2802.9	2792.3	2774.4	2740.1	2717.4	2679.8	2675.4	2679.8
55°	3013.0	3056.1	3078.7	3106.1	3106.5	3103.2	3089.0	3080.5	3045.5	3049.5	3044.4
57.5°	3259.6	3322.7	3357.5	3415.9	3436.0	3462.7	3452.8	3463.8	3442.6	3456.5	3452.5
60°	3593.9	3681.5	3739.3	3819.2	3856.6	3923.4	3936.5	3944.6	3956.3	3984.8	3968.7
62.5°	4014.4	4142.9	4262.8	4371.7	4407.5	4507.9	4524.4	4587.2	4590.5	4609.9	4574.4
65°	4702.7	4859.4	4991.3	5121.7	5197.0	5314.6	5362.1	5484.1	5446.9	5462.6	5386.9
67.5°	5153.5	5335.8	5512.6	5636.1	5761.0	5881.3	5967.8	6046.7	6046.0	6030.7	5963.5
69°	5113.7	5316.8	5491.1	5656.6	5788.1	5911.6	6015.7	6066.8	6084.7	6062.5	6014.6
70°	4975.9	5184.5	5397.9	5534.2	5677.4	5812.9	5920.3	5976.2	5988.7	5972.9	5931.7
72.5°	4339.5	4539.7	4775.0	4898.8	5072.0	5169.9	5317.9	5390.2	5403.0	5382.9	5355.9
75°	3386.7	3422.9	3662.5	3741.4	3867.1	3980.0	4072.1	4048.7	4114.1	4101.3	4091.1
77.5°	1595.5	1499.0	1654.3	1726.6	1688.6	1587.4	1734.7	1628.3	1698.8	1790.5	1767.2
80°	263.0	262.3	269.3	284.6	266.3	282.8	282.4	274.4	275.1	294.8	284.6
82.5°	101.2	103.4	104.5	107.4	107.4	107.8	109.6	111.8	110.0	113.6	112.9
85°	54.8	58.4	55.1	52.6	54.4	55.6	57.0	58.8	57.0	62.5	59.6
87.5°	14.2	15.0	13.1	13.1	12.8	11.7	11.7	12.4	13.5	16.1	17.5
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-E02-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0
2.5°	1082.9	1083.2	1083.6	1082.5	1081.8	1081.8	1081.4	1080.7	1080.3	1080.3	1080.3
5°	1095.3	1096.0	1094.2	1093.8	1093.1	1092.4	1092.4	1091.6	1092.0	1092.0	1090.2
7.5°	1120.1	1119.1	1116.8	1115.4	1116.8	1114.3	1113.2	1113.9	1113.2	1113.5	1112.8
10°	1153.4	1153.4	1150.8	1152.3	1150.4	1147.6	1148.6	1147.6	1146.8	1144.3	1145.7
12.5°	1194.7	1193.6	1192.1	1188.8	1187.7	1187.3	1184.0	1184.5	1183.3	1182.6	1181.5
15°	1230.8	1230.5	1227.2	1225.4	1225.0	1223.5	1222.1	1221.4	1219.5	1219.1	1218.4
17.5°	1255.0	1253.8	1252.4	1250.6	1250.6	1248.4	1247.6	1245.8	1245.4	1244.3	1243.3
20°	1263.0	1263.4	1261.9	1260.4	1259.7	1258.3	1257.1	1255.7	1255.0	1253.5	1252.4
22.5°	1261.1	1261.1	1259.7	1259.3	1257.8	1255.7	1254.2	1252.4	1250.6	1248.7	1246.6
25°	1255.3	1255.0	1253.8	1252.0	1250.2	1246.9	1244.0	1241.0	1238.5	1236.3	1233.0
27.5°	1250.2	1249.4	1247.3	1244.7	1241.0	1237.4	1231.9	1227.9	1224.6	1221.7	1218.1
30°	1248.4	1245.8	1242.5	1238.5	1234.1	1228.6	1222.8	1217.7	1214.0	1211.1	1209.7
32.5°	1250.6	1247.3	1242.2	1237.0	1231.6	1225.0	1219.1	1214.8	1211.5	1210.7	1210.7
35°	1270.7	1265.2	1258.3	1250.9	1244.0	1238.5	1234.5	1234.1	1231.9	1234.5	1238.5
37.5°	1329.5	1324.7	1314.1	1304.6	1299.9	1297.3	1293.7	1294.4	1289.3	1297.3	1303.9
40°	1454.4	1448.6	1436.2	1428.5	1419.0	1409.8	1417.1	1415.0	1418.6	1417.1	1424.1
42.5°	1636.7	1630.9	1611.1	1608.2	1604.2	1600.6	1600.6	1597.6	1596.2	1601.3	1595.5
45°	1858.5	1846.8	1839.5	1848.2	1836.2	1839.8	1852.6	1835.5	1839.5	1815.7	1793.8
47.5°	2088.7	2087.6	2085.7	2096.3	2098.1	2103.6	2110.6	2093.0	2061.2	2043.4	1998.8
50°	2353.5	2364.8	2369.2	2379.5	2383.9	2387.9	2376.9	2351.0	2297.3	2249.8	2197.1
52.5°	2675.4	2655.7	2682.7	2692.6	2688.2	2672.1	2632.6	2600.9	2526.7	2458.4	2376.9
55°	3050.2	3055.0	3036.0	3028.3	3013.3	2968.7	2914.3	2842.7	2748.8	2659.7	2556.7
57.5°	3432.0	3430.2	3400.6	3358.9	3308.2	3254.5	3173.3	3070.7	2961.1	2841.2	2716.7
60°	3896.3	3894.5	3834.6	3763.4	3691.0	3604.4	3477.3	3353.8	3206.9	3049.5	2901.2
62.5°	4506.5	4427.9	4369.1	4262.8	4151.0	4037.8	3865.7	3701.6	3505.4	3306.7	3133.5
65°	5288.3	5159.0	5092.1	4937.9	4764.8	4588.0	4412.9	4197.4	3933.2	3692.9	3481.3
67.5°	5866.6	5748.2	5625.9	5472.1	5282.1	5084.8	4845.1	4573.7	4273.7	4004.1	3773.6
69°	5917.4	5806.7	5659.9	5505.7	5325.9	5111.5	4849.9	4545.9	4241.9	3969.1	3742.2
70°	5840.3	5722.7	5568.1	5407.7	5206.8	5004.4	4730.4	4413.7	4109.3	3835.7	3614.3
72.5°	5265.3	5150.6	4986.2	4794.4	4588.3	4415.2	4155.0	3824.8	3493.7	3241.0	3068.5
75°	4003.7	3978.5	3862.0	3750.2	3588.0	3394.7	3156.9	2934.8	2663.3	2395.9	2235.2
77.5°	1708.3	1766.4	1827.1	1835.8	1841.7	1782.1	1745.2	1689.4	1507.7	1425.2	1340.0
80°	315.7	282.1	301.0	303.2	315.7	322.2	346.3	410.6	418.0	433.7	453.0
82.5°	112.1	114.0	116.9	118.0	119.1	123.5	139.9	167.7	192.9	225.8	269.6
85°	63.5	64.7	67.2	69.4	70.9	75.2	84.4	100.9	125.7	163.3	221.4
87.5°	19.4	21.9	23.4	26.3	27.4	28.1	32.2	43.1	55.6	82.2	119.8
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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CATALOG NUMBER: VST-E02-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0	1081.0
2.5°	1080.3	1079.9	1079.2	1078.5	1078.9	1078.1	1075.9	1075.2	1072.6	1070.8	1069.4
5°	1090.2	1089.8	1088.3	1088.7	1088.3	1084.7	1082.2	1077.8	1075.2	1071.2	1069.7
7.5°	1110.7	1110.2	1107.7	1108.8	1108.1	1102.6	1098.2	1091.3	1087.6	1082.5	1078.5
10°	1141.3	1141.3	1138.4	1138.7	1138.7	1131.5	1123.8	1112.1	1103.7	1095.7	1088.7
12.5°	1178.6	1177.1	1176.8	1174.9	1173.5	1165.4	1153.7	1138.0	1122.3	1109.2	1099.7
15°	1216.2	1214.0	1212.9	1210.7	1208.9	1201.6	1185.9	1166.5	1145.3	1124.2	1108.4
17.5°	1240.7	1239.2	1237.0	1236.3	1233.8	1226.5	1215.5	1196.1	1169.8	1140.2	1116.5
20°	1249.8	1247.3	1245.8	1244.3	1242.9	1237.8	1237.8	1225.4	1196.1	1154.5	1118.3
22.5°	1244.0	1242.5	1240.3	1239.2	1237.8	1238.5	1252.7	1250.9	1217.3	1157.8	1105.1
25°	1230.5	1228.6	1226.8	1226.8	1226.5	1234.1	1268.5	1273.2	1223.5	1141.7	1076.3
27.5°	1216.6	1214.0	1214.8	1215.1	1216.9	1233.4	1285.6	1279.1	1206.7	1103.0	1026.6
30°	1208.2	1208.2	1210.0	1212.9	1216.6	1245.4	1299.1	1265.9	1163.2	1044.5	960.8
32.5°	1211.8	1215.5	1219.5	1226.8	1232.3	1272.1	1303.9	1231.9	1100.0	972.2	892.1
35°	1244.3	1248.7	1256.4	1267.7	1274.3	1310.5	1303.9	1182.2	1026.6	910.1	821.3
37.5°	1315.2	1319.6	1328.8	1337.5	1344.1	1358.7	1298.4	1119.1	965.2	845.8	757.7
40°	1429.2	1435.4	1442.0	1440.5	1436.2	1421.9	1287.5	1060.2	908.6	789.5	695.2
42.5°	1589.6	1583.8	1583.0	1568.8	1554.2	1493.2	1279.4	1021.9	860.0	730.3	633.1
45°	1774.8	1751.1	1726.6	1707.6	1685.3	1571.3	1277.2	990.8	806.3	664.6	565.6
47.5°	1961.2	1923.2	1875.7	1846.1	1809.9	1654.6	1283.8	949.1	737.3	592.9	502.3
50°	2143.8	2081.7	2022.9	1987.4	1946.5	1750.3	1294.4	879.0	654.7	527.9	444.6
52.5°	2312.9	2233.0	2172.7	2131.0	2081.0	1861.8	1284.9	787.0	583.1	465.4	389.8
55°	2473.7	2385.3	2322.8	2279.0	2220.2	1973.6	1216.2	703.3	514.7	404.5	328.1
57.5°	2614.4	2529.6	2464.6	2405.0	2355.4	2070.7	1080.7	634.3	449.0	334.7	261.2
60°	2778.8	2683.4	2606.3	2542.7	2484.3	2120.8	928.7	572.9	378.8	259.0	188.9
62.5°	3000.5	2890.9	2801.8	2729.1	2652.7	2131.7	824.9	511.5	300.7	187.4	137.3
65°	3329.3	3194.2	3082.7	2982.7	2879.2	2086.4	773.8	444.6	223.6	139.2	115.1
67.5°	3590.6	3450.3	3321.3	3192.7	3060.5	2002.4	762.5	382.9	171.7	118.4	103.4
69°	3558.8	3425.0	3306.7	3167.5	3021.0	1896.8	751.1	359.1	156.7	110.0	97.9
70°	3436.4	3309.6	3189.4	3076.1	2896.8	1779.2	721.2	346.0	150.9	106.0	93.9
72.5°	2903.7	2756.9	2640.3	2499.3	2310.4	1322.2	546.9	279.8	138.5	96.8	84.8
75°	2117.9	1996.2	1880.0	1724.0	1540.3	765.0	340.5	160.0	101.6	87.7	76.7
77.5°	1236.7	1209.3	1097.1	994.4	812.5	389.5	195.5	95.7	78.9	79.6	67.6
80°	465.4	495.8	507.1	471.7	435.8	268.9	142.1	77.8	68.7	78.5	57.4
82.5°	339.4	393.8	400.4	383.6	356.9	250.6	113.6	62.5	55.9	84.4	49.3
85°	283.1	313.4	318.2	300.7	291.9	212.3	79.3	43.9	40.9	60.7	36.9
87.5°	143.2	150.9	154.9	140.3	141.0	99.0	31.8	18.7	22.3	25.9	20.5
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: P157979

CATALOG NUMBER: VST-E02-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	1081.0	1081.0
2.5°	1066.1	1068.2
5°	1067.5	1067.5
7.5°	1075.9	1075.9
10°	1085.0	1085.4
12.5°	1093.4	1093.1
15°	1100.0	1099.0
17.5°	1104.1	1103.0
20°	1100.0	1098.2
22.5°	1079.6	1074.5
25°	1042.3	1035.7
27.5°	993.0	988.6
30°	928.7	922.1
32.5°	853.4	850.1
35°	781.4	777.4
37.5°	715.7	714.6
40°	660.2	654.3
42.5°	595.1	592.6
45°	529.0	527.6
47.5°	466.9	465.4
50°	409.6	406.6
52.5°	353.3	348.5
55°	290.8	287.5
57.5°	223.2	220.3
60°	157.1	153.8
62.5°	111.8	108.1
65°	93.2	90.2
67.5°	84.4	81.1
69°	80.4	77.5
70°	77.8	75.6
72.5°	72.4	70.9
75°	66.1	65.0
77.5°	58.1	56.3
80°	48.6	46.7
82.5°	40.9	39.1
85°	27.4	24.8
87.5°	12.4	11.0
90°	0.0	0.0

(END OF REPORT)