

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: P157985

Luminaire Tested: **VST-F02-LED-E-U-RW**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157985
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-F02-LED-E-U-RW
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5143.7 lumens
Efficiency: N/A
Efficacy: 93.5 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): 55
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

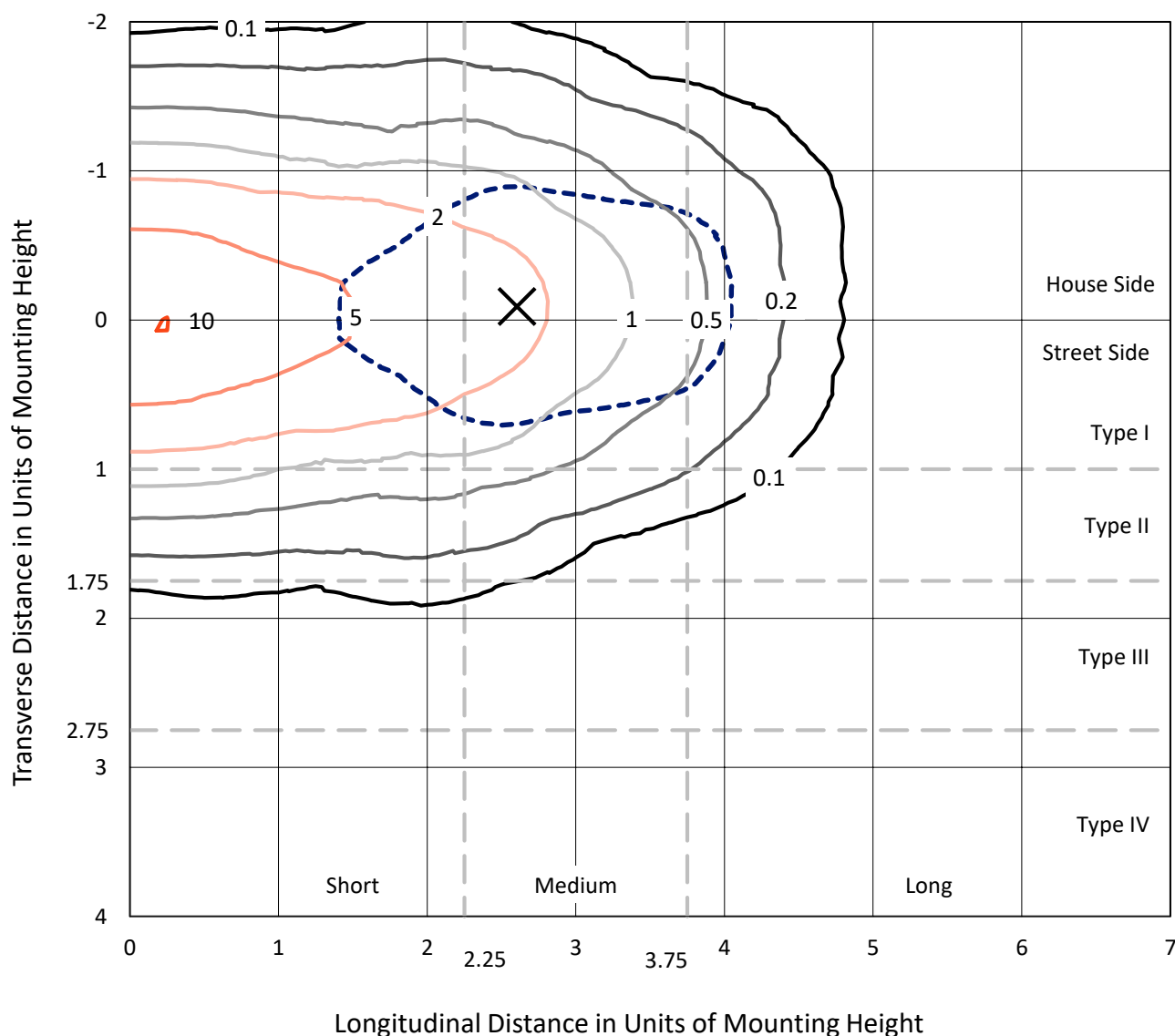


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

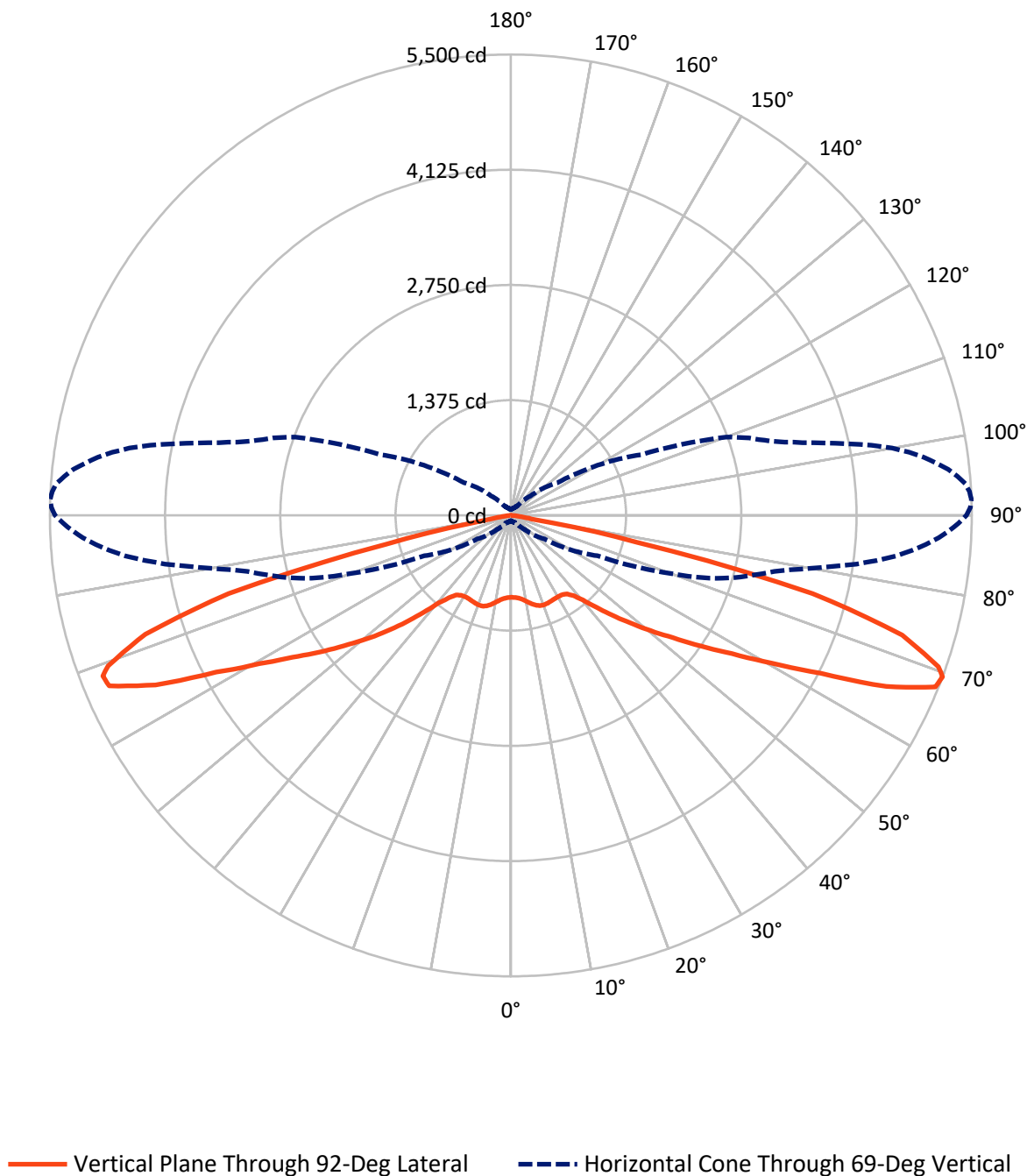


Based on 10 foot mounting height. Maximum calculated value = 10 fc
Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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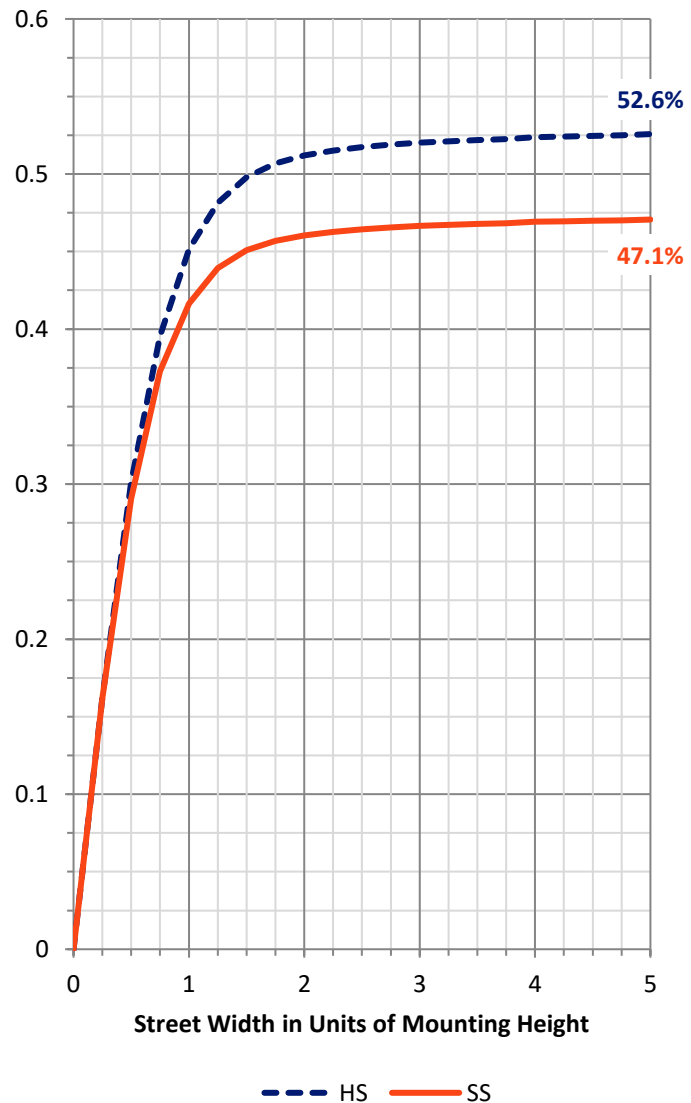
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2728.0	0.0	2728.0
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	2415.7	0.0	2415.7
	% Fixture	47.0	0.0	47.0
Total	Lumens	5143.7	0.0	5143.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	95.6	1.9
10°-20°	302.0	5.9
20°-30°	490.0	9.5
30°-40°	610.7	11.9
40°-50°	760.4	14.8
50°-60°	937.7	18.2
60°-70°	1164.6	22.6
70°-80°	715.6	13.9
80°-90°	67.1	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°	5143.7	100.0
0°-180°	5143.7	100.0

Coefficient of Utilization



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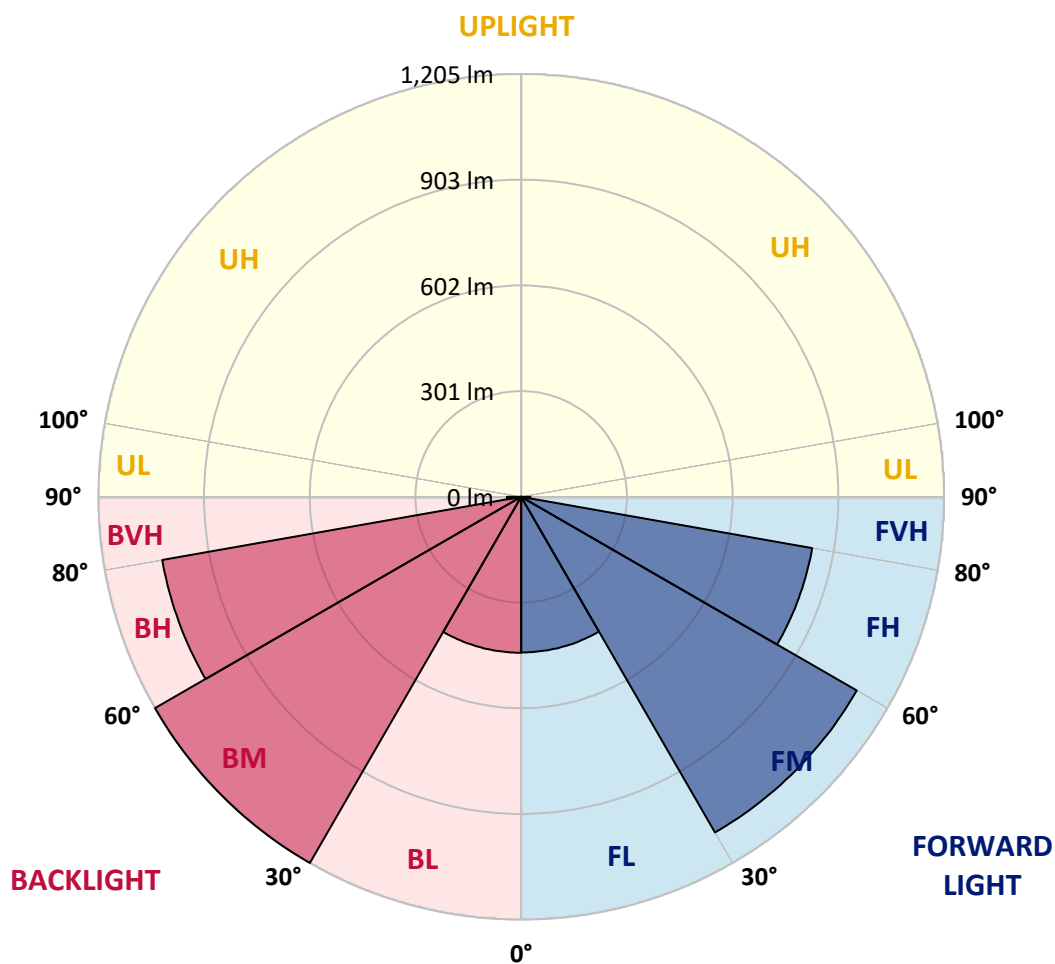
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	443.4	8.6			
FM	(30°-60°)	1104.2	21.5			
FH	(60°-80°)	842.0	16.4			G1/1800
FVH	(80°-90°)	26.3	0.5			G1/100
BL	(0°-30°)	444.3	8.6	B1/500		
BM	(30°-60°)	1204.6	23.4	B2/2500		
BH	(60°-80°)	1038.2	20.2	B3/2500		G3/2500
BVH	(80°-90°)	40.8	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°	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1
2.5°	992.6	989.9	992.3	992.6	992.3	992.3	989.3	988.6	984.7	985.7	985.3
5°	1006.1	1005.2	1006.8	1007.5	1008.1	1006.8	1004.5	1003.5	1000.9	999.9	999.5
7.5°	1018.7	1017.1	1019.7	1022.0	1023.7	1024.0	1024.3	1022.6	1022.6	1021.3	1021.3
10°	1029.2	1027.9	1032.2	1035.2	1040.5	1043.5	1046.8	1049.1	1050.4	1050.7	1050.4
12.5°	1033.9	1032.9	1039.9	1048.7	1058.6	1065.6	1073.8	1079.8	1081.4	1081.1	1082.8
15°	1025.9	1026.6	1037.2	1054.7	1075.8	1093.3	1104.9	1109.8	1111.1	1111.8	1112.2
17.5°	1004.5	1005.8	1021.0	1049.4	1086.4	1118.1	1135.3	1135.3	1132.6	1132.6	1132.3
20°	970.1	971.5	991.3	1032.2	1086.7	1135.3	1159.7	1154.8	1144.9	1142.9	1140.9
22.5°	922.6	927.9	949.7	997.3	1072.5	1140.2	1174.9	1167.6	1152.1	1147.8	1144.9
25°	868.8	868.1	894.2	947.7	1038.2	1128.3	1179.2	1177.9	1161.4	1156.7	1151.5
27.5°	807.4	809.3	833.5	887.6	985.7	1094.0	1171.9	1189.4	1175.9	1171.3	1166.3
30°	744.3	746.3	769.1	832.1	925.9	1044.8	1157.0	1200.7	1195.4	1191.7	1188.4
32.5°	680.9	681.5	708.7	776.3	875.4	986.0	1134.6	1210.9	1218.1	1216.5	1215.2
35°	621.5	622.1	651.5	720.2	825.5	935.8	1107.5	1225.7	1249.2	1251.2	1252.5
37.5°	563.6	564.7	594.7	666.7	776.3	897.8	1077.5	1248.5	1292.8	1300.0	1301.3
40°	506.2	507.2	535.9	612.2	726.5	864.5	1054.4	1280.6	1351.6	1361.5	1371.7
42.5°	451.4	455.0	479.5	552.4	671.0	823.2	1044.5	1319.5	1421.2	1436.8	1448.3
45°	400.2	400.6	428.3	496.6	605.3	767.4	1037.8	1363.7	1499.2	1522.6	1538.5
47.5°	345.4	349.4	378.4	444.8	543.8	698.4	1016.7	1415.6	1584.0	1611.4	1643.5
50°	292.3	297.8	325.9	391.6	487.7	627.1	959.9	1476.4	1679.5	1715.1	1752.1
52.5°	241.1	240.7	270.4	338.8	431.3	566.6	867.8	1540.1	1789.7	1828.0	1868.0
55°	182.3	182.3	211.7	274.1	370.1	512.8	769.1	1579.7	1892.1	1938.4	1981.9
57.5°	125.2	128.5	156.2	210.0	306.4	463.6	693.4	1556.9	1970.3	2027.8	2079.7
60°	92.8	96.1	116.6	150.9	239.8	405.5	636.7	1449.6	2017.6	2093.9	2161.2
62.5°	80.2	82.6	102.1	120.8	172.7	343.7	586.4	1313.2	2085.6	2189.9	2283.7
65°	71.6	74.0	93.4	104.3	135.1	276.4	558.4	1235.3	2166.8	2326.3	2462.4
67.5°	66.4	69.0	85.5	93.4	117.9	250.0	536.6	1217.2	2166.2	2359.7	2533.4
69°	63.7	65.7	79.3	87.8	113.9	242.0	489.4	1138.3	2023.2	2230.9	2405.2
70°	62.1	64.1	75.6	84.2	112.6	227.8	445.8	1033.9	1860.4	2069.4	2246.4
72.5°	56.8	58.8	67.4	75.3	93.8	152.2	310.7	661.7	1329.4	1478.7	1681.1
75°	50.2	52.5	59.1	65.7	71.0	88.1	179.3	343.4	760.1	873.4	1053.7
77.5°	40.9	43.3	50.2	60.8	60.1	67.0	116.6	211.0	356.0	441.5	508.2
80°	33.7	35.3	41.3	61.4	49.2	56.2	94.4	173.0	250.6	277.0	292.9
82.5°	22.4	24.8	32.0	48.2	37.6	40.0	70.7	161.8	212.0	232.4	251.6
85°	10.6	11.6	19.5	25.7	22.8	21.5	40.3	114.2	157.9	167.4	174.7
87.5°	0.0	0.0	1.0	2.0	3.0	3.0	7.3	24.1	44.2	53.5	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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1
2.5°	984.0	984.4	984.0	984.0	983.7	983.0	983.0	982.4	982.7	982.4	983.0
5°	999.2	999.2	998.2	997.6	998.6	997.6	997.9	996.2	996.2	995.3	994.0
7.5°	1021.0	1021.0	1021.3	1019.3	1020.7	1021.0	1020.0	1019.3	1018.7	1017.1	1017.4
10°	1050.1	1050.1	1051.1	1048.4	1049.8	1050.4	1050.7	1050.7	1050.1	1047.1	1047.4
12.5°	1082.4	1081.7	1082.1	1080.8	1082.1	1082.8	1083.4	1082.8	1082.8	1082.1	1081.7
15°	1111.8	1111.5	1112.2	1111.1	1111.5	1112.2	1114.1	1113.8	1113.5	1111.5	1111.5
17.5°	1132.0	1130.9	1130.3	1130.0	1130.0	1129.6	1130.0	1130.0	1129.0	1128.7	1128.7
20°	1139.6	1136.9	1135.3	1134.3	1133.0	1132.3	1131.6	1132.0	1131.3	1130.3	1130.6
22.5°	1140.9	1137.2	1133.9	1130.9	1128.3	1126.7	1125.0	1124.3	1122.7	1121.7	1121.7
25°	1147.1	1141.6	1136.3	1131.3	1127.3	1123.7	1120.1	1117.4	1115.5	1113.1	1112.5
27.5°	1161.0	1155.1	1148.8	1142.5	1137.2	1130.0	1125.0	1119.7	1115.1	1111.5	1108.9
30°	1182.5	1176.5	1170.2	1163.0	1156.1	1148.5	1140.2	1133.9	1127.3	1120.1	1116.1
32.5°	1210.9	1206.9	1200.7	1193.7	1187.5	1179.5	1169.6	1160.0	1153.7	1145.2	1138.9
35°	1251.5	1246.9	1244.9	1241.9	1235.6	1230.7	1219.8	1210.9	1204.9	1193.0	1188.4
37.5°	1307.0	1306.6	1308.3	1307.3	1308.3	1302.0	1297.1	1296.7	1288.1	1276.6	1265.3
40°	1382.6	1386.5	1395.5	1401.7	1407.7	1408.3	1415.3	1408.0	1409.0	1407.4	1395.8
42.5°	1468.8	1482.3	1492.9	1511.4	1525.6	1538.8	1547.7	1559.9	1569.2	1577.4	1579.4
45°	1564.9	1585.0	1609.4	1625.9	1653.7	1675.8	1706.2	1729.6	1754.1	1778.2	1786.7
47.5°	1669.2	1694.3	1721.4	1752.1	1787.1	1821.8	1868.6	1904.6	1943.9	1976.6	2005.7
50°	1784.5	1810.6	1846.9	1882.2	1930.4	1970.3	2031.8	2079.0	2142.4	2186.0	2223.7
52.5°	1904.6	1937.3	1978.0	2016.9	2066.1	2117.3	2185.7	2255.3	2331.6	2397.7	2452.4
55°	2022.2	2062.5	2101.4	2147.0	2201.5	2260.9	2338.2	2430.0	2525.1	2600.8	2673.4
57.5°	2126.9	2173.4	2219.3	2265.6	2321.4	2390.4	2477.2	2576.3	2685.2	2786.0	2885.7
60°	2224.0	2279.8	2335.9	2393.7	2457.8	2542.9	2647.3	2769.1	2910.1	3047.8	3178.3
62.5°	2377.5	2450.8	2520.5	2595.1	2672.4	2772.4	2895.6	3055.4	3217.3	3389.3	3523.0
65°	2585.5	2688.5	2779.7	2876.5	2976.5	3110.2	3257.5	3448.7	3680.5	3856.9	4071.5
67.5°	2688.9	2824.6	2941.9	3049.5	3173.3	3308.4	3483.4	3709.6	3956.9	4212.5	4451.9
69°	2567.4	2707.4	2837.2	2957.7	3082.9	3214.0	3396.8	3629.0	3890.5	4166.9	4400.7
70°	2409.9	2549.9	2688.2	2825.6	2939.9	3067.7	3251.2	3490.6	3751.9	4039.1	4270.9
72.5°	1846.2	2014.6	2139.8	2268.5	2401.0	2509.3	2721.2	2923.0	3195.1	3486.7	3742.0
75°	1181.2	1336.0	1472.8	1582.4	1711.8	1841.6	1998.1	2222.3	2392.7	2632.1	2839.1
77.5°	606.9	652.8	784.6	823.9	913.7	984.4	1070.5	1126.7	1265.3	1294.7	1417.0
80°	287.6	259.2	244.0	230.2	234.1	232.4	225.5	216.3	227.8	222.9	220.9
82.5°	250.6	223.6	178.3	151.6	131.1	111.3	95.8	87.8	88.8	91.4	92.5
85°	175.7	165.1	128.8	97.7	76.3	59.1	47.6	45.5	46.9	50.5	49.2
87.5°	50.9	53.2	46.9	32.7	22.8	16.5	12.9	14.5	13.9	13.6	14.2
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°	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1
2.5°	983.0	982.7	981.7	980.7	980.7	980.0	980.7	981.1	980.7	980.7	980.0
5°	994.3	994.6	995.6	993.6	993.3	993.6	992.3	992.0	991.0	992.0	990.6
7.5°	1015.7	1016.7	1016.7	1015.4	1015.1	1016.0	1014.1	1013.4	1012.4	1012.1	1011.8
10°	1047.8	1048.7	1047.1	1046.1	1045.1	1046.5	1044.8	1044.8	1043.8	1042.8	1042.5
12.5°	1083.4	1082.8	1082.1	1082.8	1081.7	1081.7	1080.8	1080.1	1079.8	1079.5	1078.8
15°	1111.1	1113.5	1113.5	1114.1	1113.5	1113.5	1112.2	1112.5	1111.8	1111.5	1111.8
17.5°	1129.0	1129.6	1131.3	1132.3	1132.3	1132.6	1132.0	1132.6	1132.0	1132.0	1133.3
20°	1131.3	1132.0	1133.6	1135.3	1136.3	1136.9	1136.9	1137.9	1138.6	1139.2	1140.9
22.5°	1122.1	1123.0	1125.0	1128.0	1129.6	1130.3	1131.6	1133.3	1135.0	1136.3	1138.6
25°	1112.5	1112.8	1114.8	1117.7	1119.7	1121.4	1123.7	1125.7	1128.0	1130.6	1133.3
27.5°	1107.2	1106.9	1108.5	1111.5	1113.1	1115.5	1117.4	1120.4	1123.0	1126.3	1128.7
30°	1111.8	1109.2	1109.5	1110.8	1112.2	1113.8	1116.1	1118.8	1121.7	1124.7	1127.3
32.5°	1132.3	1126.3	1122.4	1121.4	1121.7	1122.1	1123.4	1125.0	1127.3	1129.6	1130.6
35°	1176.5	1166.3	1161.0	1156.7	1153.1	1150.1	1150.8	1150.4	1150.4	1152.4	1150.1
37.5°	1260.7	1247.9	1242.2	1234.7	1230.4	1219.4	1216.5	1215.8	1211.5	1211.5	1206.6
40°	1392.8	1385.2	1381.0	1374.0	1353.2	1355.8	1341.0	1341.3	1329.1	1330.4	1321.9
42.5°	1580.7	1581.7	1576.4	1571.8	1555.6	1548.4	1534.5	1514.7	1499.2	1498.8	1481.6
45°	1798.0	1809.9	1793.0	1799.0	1784.8	1765.3	1749.1	1723.7	1699.6	1692.0	1674.5
47.5°	2025.2	2044.7	2031.8	2034.1	2027.2	1999.4	1977.6	1946.3	1914.9	1893.8	1883.2
50°	2267.9	2280.8	2280.4	2274.2	2270.9	2243.8	2208.8	2185.0	2161.9	2133.5	2124.2
52.5°	2487.8	2517.8	2538.0	2533.4	2523.8	2507.6	2476.6	2456.1	2422.1	2418.1	2422.1
55°	2723.2	2762.2	2782.7	2807.5	2807.8	2804.8	2791.9	2784.4	2752.6	2756.3	2751.7
57.5°	2946.1	3003.2	3034.6	3087.5	3105.6	3129.7	3120.8	3130.7	3111.5	3124.1	3120.5
60°	3248.3	3327.5	3379.7	3452.0	3485.7	3546.1	3558.0	3565.3	3575.8	3601.6	3587.1
62.5°	3628.3	3744.6	3852.9	3951.3	3983.6	4074.5	4089.3	4146.1	4149.1	4166.6	4134.5
65°	4250.5	4392.1	4511.3	4629.2	4697.2	4803.5	4846.5	4956.8	4923.1	4937.3	4868.9
67.5°	4657.9	4822.7	4982.5	5094.1	5207.1	5315.7	5394.0	5465.3	5464.6	5450.8	5390.0
69°	4621.9	4805.5	4963.1	5112.7	5231.5	5343.1	5437.3	5483.5	5499.7	5479.5	5436.2
70°	4497.5	4686.0	4878.8	5002.0	5131.4	5254.0	5351.0	5401.6	5412.8	5398.6	5361.3
72.5°	3922.3	4103.2	4315.9	4427.8	4584.3	4672.8	4806.5	4871.9	4883.5	4865.3	4840.9
75°	3061.0	3093.7	3310.4	3381.7	3495.3	3597.3	3680.5	3659.4	3718.5	3706.9	3697.7
77.5°	1442.0	1354.9	1495.2	1560.6	1526.2	1434.8	1567.9	1471.7	1535.5	1618.4	1597.2
80°	237.8	237.1	243.4	257.2	240.7	255.6	255.2	248.0	248.6	266.5	257.2
82.5°	91.4	93.4	94.4	97.1	97.1	97.4	99.1	101.0	99.4	102.7	102.1
85°	49.6	52.9	49.9	47.6	49.2	50.2	51.5	53.2	51.5	56.5	53.8
87.5°	12.9	13.6	11.9	11.9	11.6	10.6	10.6	11.2	12.2	14.5	15.8
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-F02-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1
2.5°	978.7	979.1	979.4	978.4	977.8	977.8	977.4	976.7	976.4	976.4	976.4
5°	989.9	990.6	989.0	988.6	988.0	987.3	987.3	986.6	987.0	987.0	985.3
7.5°	1012.4	1011.4	1009.4	1008.1	1009.4	1007.2	1006.1	1006.8	1006.1	1006.5	1005.8
10°	1042.5	1042.5	1040.2	1041.5	1039.9	1037.2	1038.2	1037.2	1036.5	1034.2	1035.5
12.5°	1079.8	1078.8	1077.5	1074.5	1073.5	1073.2	1070.2	1070.5	1069.6	1068.9	1067.9
15°	1112.5	1112.2	1109.2	1107.5	1107.2	1105.9	1104.5	1103.9	1102.3	1101.9	1101.2
17.5°	1134.3	1133.3	1132.0	1130.3	1130.3	1128.3	1127.6	1126.0	1125.7	1124.7	1123.7
20°	1141.6	1141.9	1140.5	1139.2	1138.6	1137.2	1136.3	1135.0	1134.3	1133.0	1132.0
22.5°	1139.9	1139.9	1138.6	1138.3	1136.9	1135.0	1133.6	1132.0	1130.3	1128.7	1126.7
25°	1134.6	1134.3	1133.3	1131.6	1130.0	1127.0	1124.3	1121.7	1119.4	1117.4	1114.4
27.5°	1130.0	1129.3	1127.3	1125.0	1121.7	1118.4	1113.5	1109.8	1106.9	1104.2	1100.9
30°	1128.3	1126.0	1123.0	1119.4	1115.5	1110.5	1105.2	1100.6	1097.3	1094.6	1093.3
32.5°	1130.3	1127.3	1122.7	1118.1	1113.1	1107.2	1101.9	1097.9	1095.0	1094.3	1094.3
35°	1148.5	1143.5	1137.2	1130.6	1124.3	1119.4	1115.8	1115.5	1113.5	1115.8	1119.4
37.5°	1201.6	1197.4	1187.8	1179.2	1174.9	1172.6	1169.3	1169.9	1165.3	1172.6	1178.5
40°	1314.5	1309.3	1298.0	1291.1	1282.6	1274.3	1280.9	1278.9	1282.2	1280.9	1287.2
42.5°	1479.4	1474.1	1456.2	1453.6	1450.0	1446.7	1446.7	1444.0	1442.7	1447.3	1442.0
45°	1679.8	1669.2	1662.6	1670.5	1659.7	1663.0	1674.5	1659.0	1662.6	1641.1	1621.3
47.5°	1887.8	1886.8	1885.1	1894.7	1896.4	1901.3	1907.6	1891.8	1863.1	1846.9	1806.6
50°	2127.2	2137.4	2141.4	2150.6	2154.6	2158.3	2148.4	2124.9	2076.4	2033.5	1985.9
52.5°	2418.1	2400.3	2424.7	2433.7	2429.7	2415.2	2379.5	2350.7	2283.7	2222.0	2148.4
55°	2756.9	2761.2	2744.0	2737.1	2723.6	2683.3	2634.1	2569.4	2484.5	2403.9	2310.8
57.5°	3102.0	3100.3	3073.6	3035.9	2990.0	2941.5	2868.2	2775.4	2676.4	2568.1	2455.4
60°	3521.7	3520.0	3465.9	3401.5	3336.1	3257.9	3142.9	3031.3	2898.6	2756.3	2622.2
62.5°	4073.2	4002.1	3949.0	3852.9	3751.9	3649.5	3494.0	3345.7	3168.4	2988.7	2832.2
65°	4779.8	4662.9	4602.5	4463.1	4306.6	4146.8	3988.6	3793.8	3555.1	3337.7	3146.6
67.5°	5302.5	5195.5	5084.9	4945.9	4774.2	4595.9	4379.2	4133.9	3862.8	3619.1	3410.8
69°	5348.4	5248.4	5115.6	4976.3	4813.8	4619.9	4383.5	4108.8	3834.1	3587.4	3382.3
70°	5278.7	5172.4	5032.7	4887.8	4706.2	4523.2	4275.5	3989.3	3714.2	3466.9	3266.8
72.5°	4759.0	4655.3	4506.7	4333.3	4147.1	3990.6	3755.5	3457.0	3157.8	2929.3	2773.4
75°	3618.8	3596.0	3490.6	3389.6	3243.0	3068.3	2853.4	2652.6	2407.3	2165.5	2020.2
77.5°	1544.0	1596.5	1651.4	1659.3	1664.6	1610.8	1577.4	1526.9	1362.8	1288.1	1211.2
80°	285.3	254.9	272.1	274.1	285.3	291.2	313.0	371.2	377.8	392.0	409.4
82.5°	101.4	103.0	105.7	106.7	107.6	111.6	126.5	151.6	174.4	204.1	243.7
85°	57.5	58.4	60.8	62.8	64.1	68.0	76.3	91.1	113.6	147.6	200.1
87.5°	17.5	19.8	21.1	23.8	24.8	25.4	29.0	38.9	50.2	74.3	108.3
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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CATALOG NUMBER: VST-F02-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1	977.1
2.5°	976.4	976.1	975.4	974.8	975.1	974.5	972.5	971.8	969.5	967.9	966.5
5°	985.3	985.0	983.7	984.0	983.7	980.4	978.1	974.1	971.8	968.2	966.8
7.5°	1003.9	1003.5	1001.2	1002.2	1001.5	996.6	992.6	986.3	983.0	978.4	974.8
10°	1031.6	1031.6	1028.9	1029.2	1029.2	1022.6	1015.7	1005.2	997.6	990.3	984.0
12.5°	1065.2	1063.9	1063.6	1061.9	1060.6	1053.4	1042.8	1028.6	1014.4	1002.5	994.0
15°	1099.3	1097.3	1096.3	1094.3	1092.7	1086.1	1071.8	1054.4	1035.2	1016.0	1001.9
17.5°	1121.4	1120.1	1118.1	1117.4	1115.1	1108.5	1098.6	1081.1	1057.3	1030.6	1009.1
20°	1129.6	1127.3	1126.0	1124.7	1123.4	1118.8	1118.8	1107.5	1081.1	1043.5	1010.8
22.5°	1124.3	1123.0	1121.0	1120.1	1118.8	1119.4	1132.3	1130.6	1100.3	1046.5	998.9
25°	1112.2	1110.5	1108.9	1108.9	1108.5	1115.5	1146.5	1150.8	1105.9	1031.9	972.8
27.5°	1099.6	1097.3	1097.9	1098.3	1099.9	1114.8	1162.0	1156.1	1090.7	996.9	927.9
30°	1092.0	1092.0	1093.7	1096.3	1099.6	1125.7	1174.2	1144.2	1051.4	944.1	868.4
32.5°	1095.3	1098.6	1102.3	1108.9	1113.8	1149.8	1178.5	1113.5	994.3	878.7	806.4
35°	1124.7	1128.7	1135.6	1145.8	1151.8	1184.5	1178.5	1068.5	927.9	822.5	742.3
37.5°	1188.8	1192.7	1201.0	1208.9	1214.8	1228.1	1173.5	1011.4	872.4	764.5	684.8
40°	1291.8	1297.4	1303.3	1302.0	1298.0	1285.2	1163.6	958.3	821.2	713.6	628.4
42.5°	1436.8	1431.5	1430.8	1417.9	1404.7	1349.6	1156.4	923.6	777.3	660.1	572.3
45°	1604.2	1582.7	1560.6	1543.4	1523.3	1420.3	1154.4	895.5	728.8	600.7	511.1
47.5°	1772.6	1738.2	1695.3	1668.5	1635.8	1495.5	1160.3	857.9	666.4	535.9	454.0
50°	1937.7	1881.5	1828.4	1796.3	1759.4	1582.0	1169.9	794.5	591.7	477.2	401.9
52.5°	2090.6	2018.2	1963.7	1926.1	1880.9	1682.8	1161.4	711.3	527.0	420.7	352.3
55°	2235.8	2155.9	2099.5	2059.9	2006.7	1783.8	1099.3	635.6	465.2	365.5	296.5
57.5°	2363.0	2286.4	2227.6	2173.8	2128.9	1871.6	976.7	573.2	405.8	302.5	236.1
60°	2511.6	2425.4	2355.7	2298.2	2245.4	1916.9	839.4	517.7	342.4	234.1	170.7
62.5°	2712.0	2612.9	2532.4	2466.7	2397.7	1926.8	745.6	462.3	271.7	169.4	124.1
65°	3009.2	2887.0	2786.3	2695.9	2602.4	1885.8	699.4	401.9	202.1	125.8	104.0
67.5°	3245.3	3118.5	3001.9	2885.7	2766.2	1809.9	689.2	346.1	155.2	107.0	93.4
69°	3216.6	3095.7	2988.7	2862.9	2730.5	1714.4	678.9	324.6	141.7	99.4	88.5
70°	3106.0	2991.4	2882.8	2780.3	2618.2	1608.1	651.8	312.7	136.4	95.8	84.8
72.5°	2624.5	2491.7	2386.4	2258.9	2088.2	1195.0	494.3	253.0	125.2	87.5	76.6
75°	1914.2	1804.3	1699.3	1558.3	1392.2	691.4	307.7	144.7	91.8	79.3	69.4
77.5°	1117.7	1093.0	991.6	898.9	734.4	352.0	176.6	86.5	71.3	72.0	61.1
80°	420.7	448.1	458.3	426.3	394.0	243.1	128.5	70.3	62.1	71.0	51.8
82.5°	306.8	356.0	361.9	346.7	322.6	226.5	102.7	56.5	50.5	76.3	44.6
85°	255.9	283.3	287.6	271.7	263.8	191.9	71.6	39.6	37.0	54.8	33.4
87.5°	129.4	136.4	140.0	126.8	127.4	89.5	28.7	16.9	20.2	23.5	18.5
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: P157985

CATALOG NUMBER: VST-F02-LED-E-U-RW

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	977.1	977.1
2.5°	963.5	965.5
5°	964.9	964.9
7.5°	972.5	972.5
10°	980.7	981.1
12.5°	988.3	988.0
15°	994.3	993.3
17.5°	997.9	996.9
20°	994.3	992.6
22.5°	975.8	971.2
25°	942.1	936.1
27.5°	897.5	893.5
30°	839.4	833.5
32.5°	771.4	768.4
35°	706.3	702.7
37.5°	646.9	645.9
40°	596.7	591.4
42.5°	537.9	535.6
45°	478.1	476.8
47.5°	422.0	420.7
50°	370.1	367.5
52.5°	319.3	315.0
55°	262.9	259.9
57.5°	201.8	199.1
60°	142.0	139.0
62.5°	101.0	97.7
65°	84.2	81.5
67.5°	76.3	73.3
69°	72.7	70.0
70°	70.3	68.3
72.5°	65.4	64.1
75°	59.8	58.8
77.5°	52.5	50.9
80°	43.9	42.2
82.5°	37.0	35.3
85°	24.8	22.4
87.5°	11.2	9.9
90°	0.0	0.0

(END OF REPORT)