

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: P159533

Luminaire Tested: **VST-F03-LED-E-U-T3-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159533
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-F03-LED-E-U-T3-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6392.6 lumens
Efficiency: N/A
Efficacy: 81.6 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



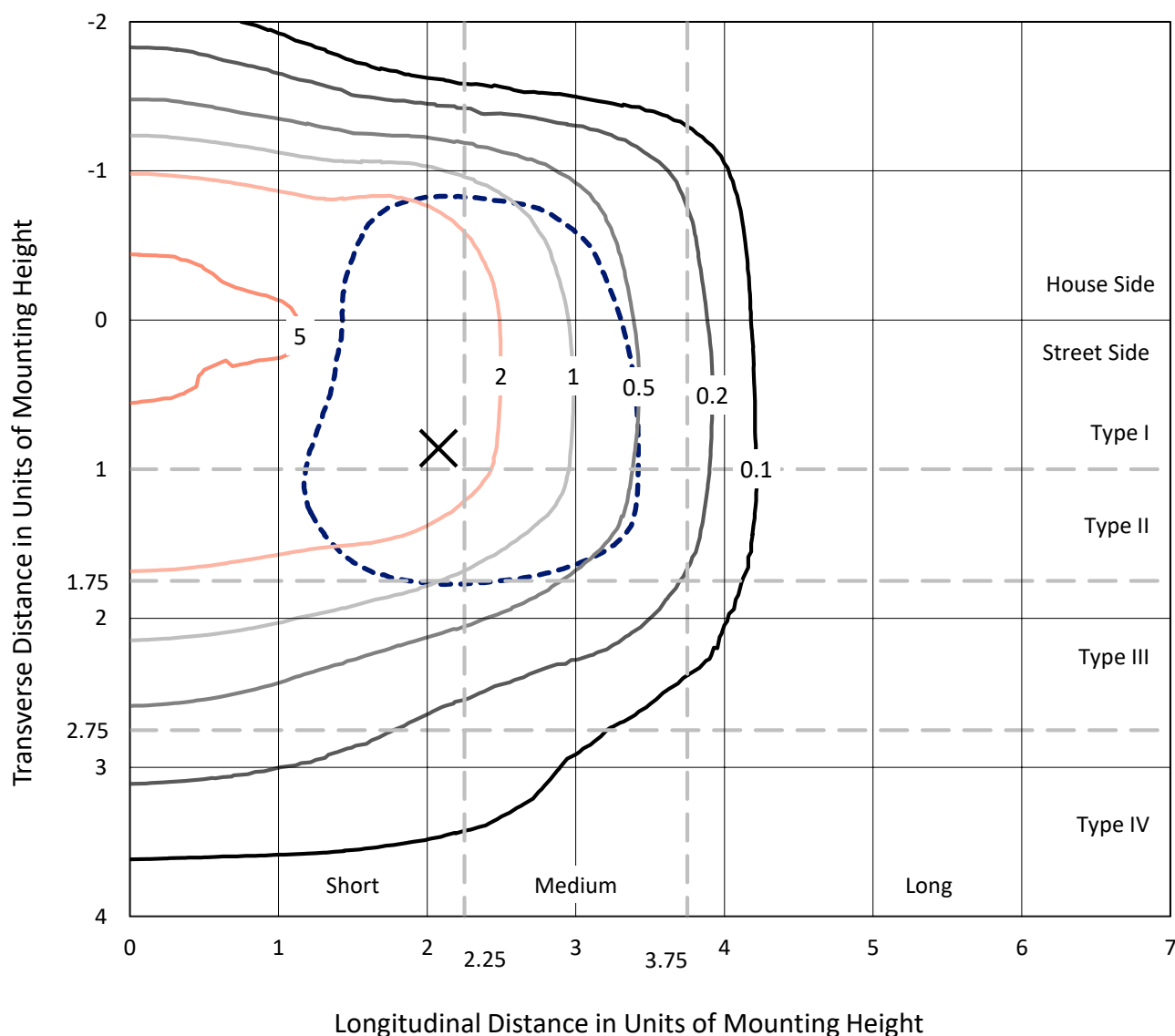
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

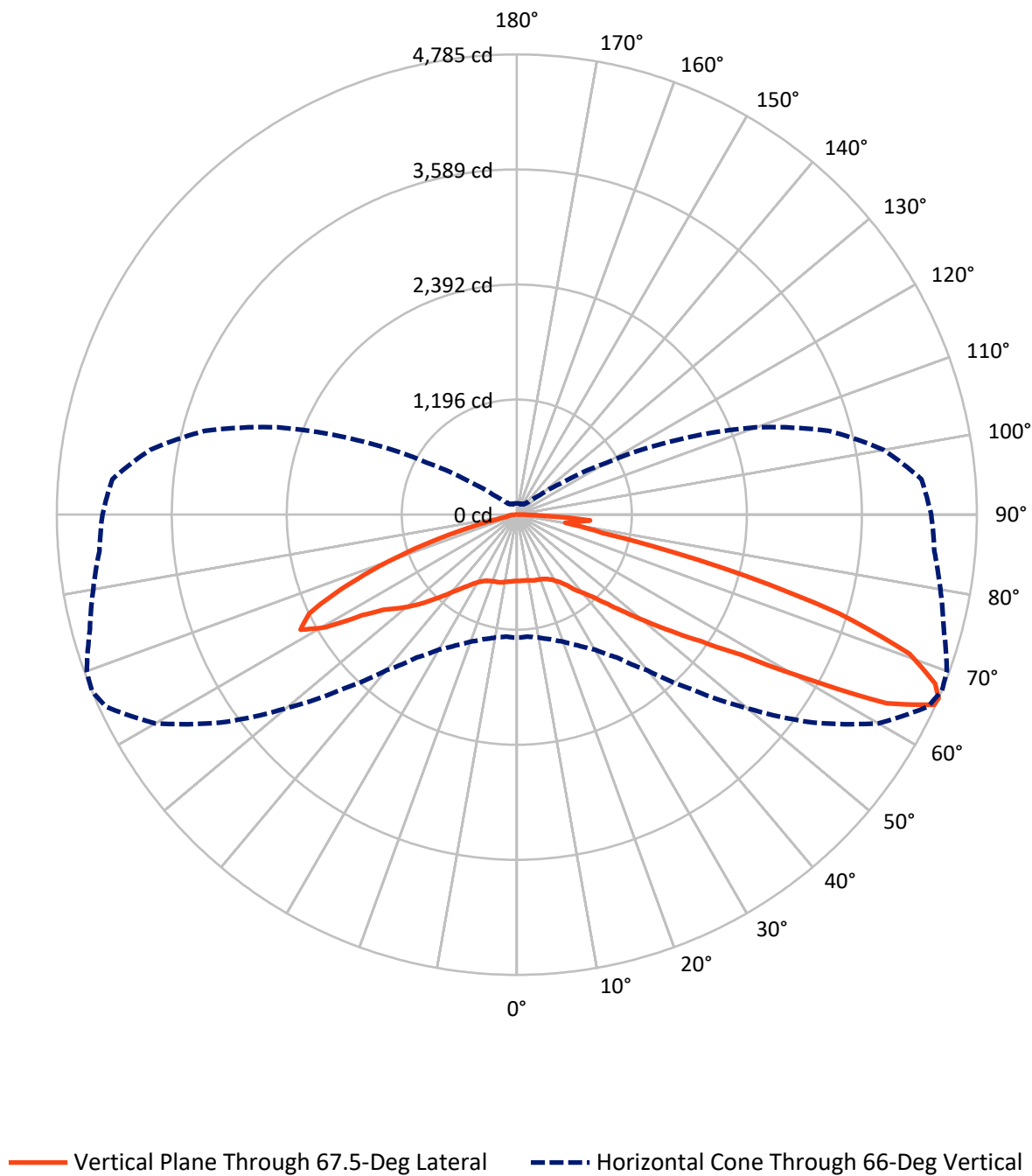


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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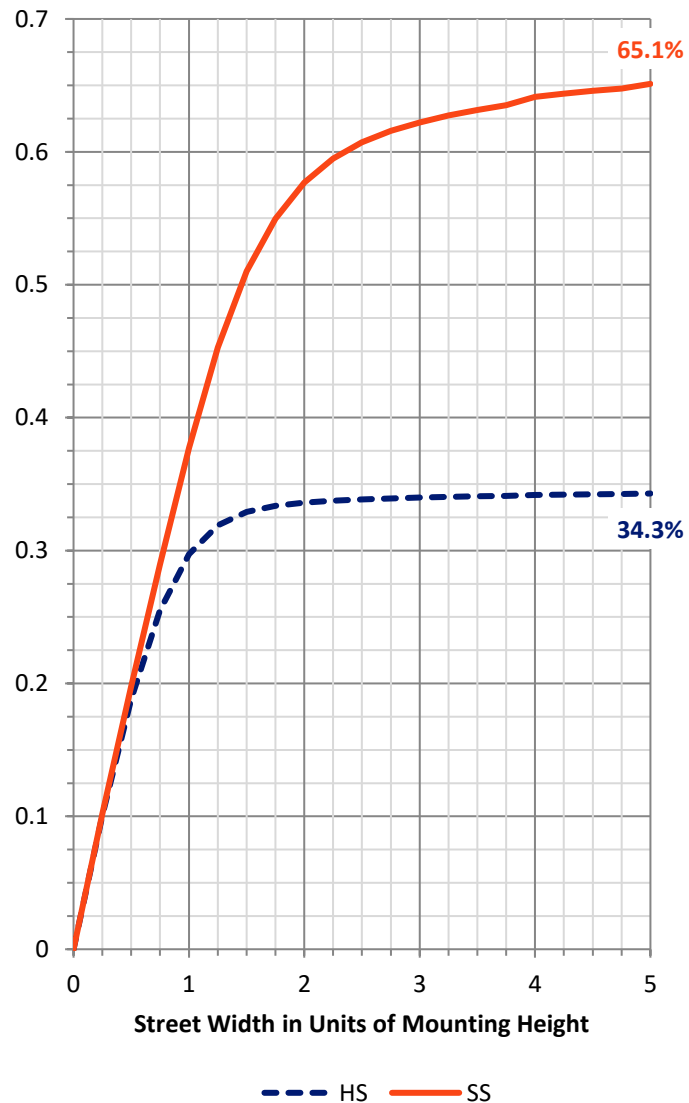
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2212.1	0.0	2212.1
	% Fixture	34.6	0.0	34.6
Street Side	Lumens	4180.5	0.0	4180.5
	% Fixture	65.4	0.0	65.4
Total	Lumens	6392.6	0.0	6392.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	66.2	1.0
10°-20°	196.0	3.1
20°-30°	336.9	5.3
30°-40°	544.5	8.5
40°-50°	902.4	14.1
50°-60°	1416.2	22.2
60°-70°	1936.3	30.3
70°-80°	851.5	13.3
80°-90°	142.5	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°	6392.6	100.0
0°-180°	6392.6	100.0

Coefficient of Utilization



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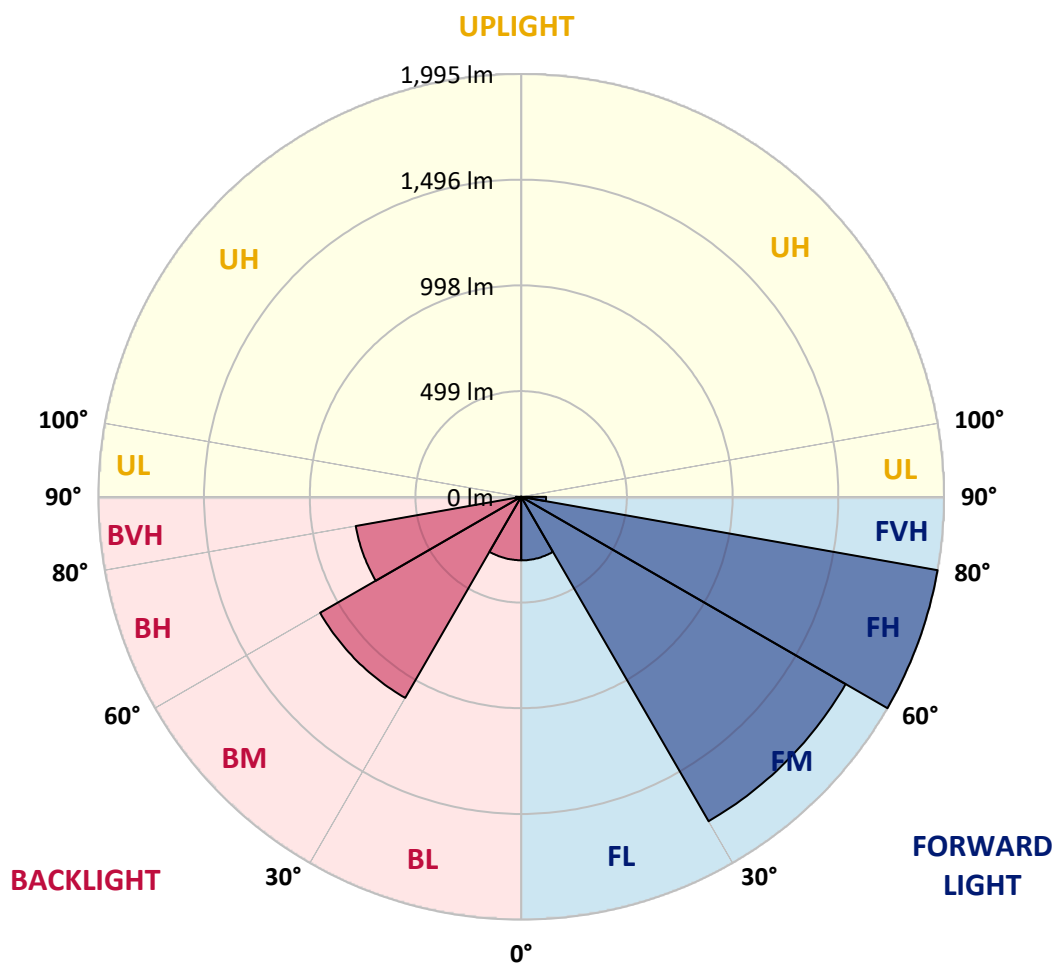
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.9	4.7			
FM	(30°-60°)	1767.7	27.7			
FH	(60°-80°)	1995.3	31.2			G2/5000
FVH	(80°-90°)	117.6	1.8			G2/225
BL	(0°-30°)	299.2	4.7	B1/500		
BM	(30°-60°)	1095.4	17.1	B2/2500		
BH	(60°-80°)	792.5	12.4	B2/1000		G2/1000
BVH	(80°-90°)	24.9	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





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8
2.5°	688.5	688.5	688.9	688.5	688.5	688.1	689.8	689.8	689.8	689.3	690.6
5°	686.8	686.8	687.2	687.2	687.7	687.2	688.5	688.9	688.9	688.9	690.2
7.5°	682.7	683.9	683.1	683.5	683.9	685.1	686.8	687.7	688.5	689.8	690.2
10°	673.9	676.0	675.5	676.8	677.2	681.0	682.3	683.9	686.8	688.5	689.8
12.5°	661.7	663.0	663.4	665.1	666.8	671.4	674.7	677.6	681.8	686.0	690.2
15°	652.1	653.0	653.0	654.7	657.2	661.3	665.5	670.6	676.8	683.9	690.6
17.5°	655.1	657.2	655.5	655.1	655.9	658.4	662.2	666.4	673.9	681.8	689.8
20°	674.3	674.7	673.9	671.8	670.1	670.6	670.6	671.4	676.0	682.3	688.5
22.5°	690.2	691.9	691.4	691.9	691.4	693.1	692.3	690.6	688.9	689.3	692.3
25°	704.0	705.7	705.7	706.9	709.0	712.3	714.8	714.4	711.9	708.6	707.3
27.5°	726.5	726.5	726.5	727.8	730.7	734.9	739.1	741.6	743.7	740.3	733.3
30°	762.1	762.5	761.3	761.7	763.7	769.2	774.2	778.0	782.2	781.7	772.6
32.5°	800.9	802.6	802.2	803.9	806.8	811.9	817.3	823.1	828.5	831.9	826.0
35°	851.2	852.8	853.2	855.7	859.1	866.6	874.1	881.6	887.5	890.0	888.8
37.5°	933.5	933.9	932.2	928.4	929.7	935.6	944.3	956.5	960.2	962.8	968.6
40°	1056.8	1055.6	1048.9	1045.5	1043.5	1045.9	1044.2	1053.9	1062.7	1063.1	1062.7
42.5°	1206.5	1202.7	1196.5	1195.6	1194.8	1193.9	1189.3	1189.7	1197.7	1199.8	1197.3
45°	1355.3	1350.7	1346.1	1350.3	1345.3	1358.2	1362.0	1372.0	1373.3	1377.4	1371.2
47.5°	1477.4	1477.8	1477.8	1483.6	1493.6	1518.3	1540.5	1559.7	1566.8	1576.9	1578.1
50°	1569.7	1572.2	1580.2	1599.0	1620.3	1661.7	1698.9	1733.6	1765.0	1776.7	1807.6
52.5°	1623.7	1630.4	1647.1	1678.4	1716.5	1770.0	1828.5	1887.5	1941.8	1987.8	2024.6
55°	1614.1	1619.1	1648.3	1697.2	1756.6	1828.5	1910.5	1995.7	2080.6	2158.3	2218.6
57.5°	1552.2	1555.6	1584.8	1640.0	1714.0	1810.6	1926.4	2053.0	2172.1	2297.6	2400.4
60°	1471.1	1476.1	1503.3	1546.7	1624.1	1726.9	1861.1	2032.9	2223.1	2420.5	2612.8
62.5°	1419.2	1418.0	1441.8	1480.7	1538.8	1632.1	1761.2	1964.8	2228.2	2561.8	2941.7
65°	1333.1	1329.4	1354.0	1398.4	1461.5	1551.8	1674.2	1869.9	2175.5	2615.3	3154.1
66°	1279.6	1272.1	1296.8	1341.5	1404.6	1500.8	1618.3	1811.4	2111.5	2563.0	3131.5
67.5°	1186.0	1182.2	1193.9	1229.0	1275.8	1366.1	1488.7	1683.1	1960.2	2405.8	2966.0
70°	964.0	955.6	964.9	980.7	998.7	1020.8	1096.1	1250.3	1484.9	1916.7	2389.5
72.5°	656.8	652.6	669.7	694.0	742.0	764.6	794.3	819.4	902.2	1208.2	1666.7
75°	499.6	502.1	523.8	563.9	625.8	692.7	757.9	781.7	754.1	730.3	946.0
77.5°	280.1	294.7	321.1	372.1	437.7	532.1	645.9	771.3	834.0	818.5	765.4
80°	115.4	113.3	126.2	154.3	176.8	254.2	388.8	545.9	722.4	834.0	816.4
82.5°	32.2	33.0	42.7	54.8	70.6	89.9	140.5	225.7	367.9	572.3	749.2
85°	10.0	10.0	13.8	20.5	24.2	28.0	35.5	58.5	99.9	199.4	404.2
87.5°	2.1	2.1	2.9	5.9	6.3	6.3	7.9	10.9	9.6	8.8	39.3
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8
2.5°	689.3	688.5	688.9	689.3	688.9	688.9	688.5	688.1	688.5	688.5	689.8
5°	688.9	688.5	688.9	688.9	688.9	689.3	689.3	689.3	690.6	690.6	692.7
7.5°	689.8	689.8	690.6	690.6	690.6	690.6	691.0	691.9	694.0	693.5	697.3
10°	691.4	692.3	694.4	694.8	694.8	696.1	696.9	698.5	700.6	701.5	704.8
12.5°	693.5	697.7	701.5	702.3	703.6	705.7	706.9	707.8	711.5	712.7	716.9
15°	696.1	701.9	706.5	708.2	709.9	712.3	714.0	715.3	718.6	720.3	725.3
17.5°	696.5	703.1	708.6	711.1	713.2	716.1	718.6	721.1	724.9	727.4	732.4
20°	696.1	704.8	713.2	716.5	718.6	724.0	727.8	731.2	735.8	738.2	743.3
22.5°	700.6	710.7	722.0	726.1	729.5	737.0	742.0	747.5	753.3	755.0	758.8
25°	711.5	722.0	736.2	742.0	747.9	757.9	765.0	773.0	778.8	779.6	780.9
27.5°	729.9	739.5	756.7	765.4	775.0	789.2	799.7	807.7	816.0	816.0	815.2
30°	767.1	769.2	787.2	798.5	812.7	833.6	849.1	857.8	864.1	864.1	857.0
32.5°	815.2	812.7	829.0	841.1	860.8	890.0	910.9	917.6	924.3	922.2	910.1
35°	884.6	877.4	886.7	905.0	927.2	967.3	989.1	1004.2	1008.3	1002.5	983.2
37.5°	971.9	971.1	975.7	996.2	1020.8	1072.7	1094.9	1104.5	1101.1	1090.7	1056.8
40°	1064.3	1061.8	1058.9	1072.7	1100.3	1162.6	1201.9	1206.9	1202.3	1186.8	1144.2
42.5°	1187.6	1187.6	1173.8	1177.6	1200.6	1270.4	1316.8	1332.7	1333.1	1310.6	1253.7
45°	1357.4	1355.7	1331.5	1325.6	1343.2	1411.7	1471.5	1480.3	1480.3	1450.6	1388.3
47.5°	1561.4	1559.3	1535.5	1515.0	1518.3	1592.3	1642.1	1655.5	1643.8	1621.6	1547.6
50°	1791.3	1787.5	1763.3	1744.1	1735.7	1810.6	1852.7	1859.0	1841.9	1815.5	1735.3
52.5°	2024.6	2035.9	2021.6	2011.2	2014.1	2062.6	2106.1	2076.4	2067.7	2039.2	1958.5
55°	2267.5	2302.1	2333.5	2324.3	2335.2	2382.4	2390.8	2351.5	2335.6	2315.1	2225.2
57.5°	2512.0	2613.2	2716.0	2744.9	2771.6	2839.3	2829.7	2765.3	2777.5	2808.0	2706.8
60°	2853.5	3145.7	3406.6	3454.7	3537.9	3595.6	3608.5	3596.0	3652.4	3636.5	3547.1
62.5°	3378.2	3865.2	4228.1	4318.4	4402.0	4399.0	4355.2	4310.0	4365.6	4365.6	4131.9
65°	3752.8	4305.4	4693.7	4768.6	4765.3	4664.5	4560.8	4470.5	4462.6	4400.7	4059.2
66°	3770.3	4339.3	4719.7	4784.9	4759.8	4597.6	4473.5	4358.9	4310.0	4223.9	3874.0
67.5°	3612.3	4243.6	4635.2	4692.1	4626.1	4393.6	4222.6	4069.2	3998.2	3853.1	3523.7
70°	2963.1	3647.0	4216.8	4333.0	4258.1	3963.8	3729.8	3522.4	3386.6	3177.1	2939.6
72.5°	2162.9	2692.6	3309.7	3498.6	3486.9	3216.0	3027.5	2837.6	2659.1	2468.5	2295.1
75°	1405.9	1751.6	2095.6	2206.0	2152.9	1996.1	1861.1	1750.3	1581.1	1448.5	1416.3
77.5°	802.6	980.7	927.7	913.9	847.4	683.9	454.8	319.0	288.1	359.5	394.2
80°	763.7	692.3	566.9	511.3	469.9	320.2	168.1	118.3	103.7	106.2	114.1
82.5°	861.2	897.5	734.1	613.3	533.8	389.6	212.8	99.1	72.3	85.7	96.1
85°	645.5	908.8	900.9	763.3	626.2	449.0	251.6	75.7	43.5	60.2	78.6
87.5°	130.9	215.3	207.4	182.3	155.1	108.3	42.2	23.8	21.7	29.7	45.1
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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CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8	689.8
2.5°	690.6	690.6	691.4	692.7	693.1	693.1	694.0	693.1	694.8	695.2	695.6
5°	694.4	695.6	696.5	698.5	699.8	700.6	701.9	701.0	702.7	703.1	704.0
7.5°	698.5	700.6	702.3	703.1	704.8	704.8	705.2	704.4	704.0	702.7	702.3
10°	706.1	707.3	709.4	708.6	707.8	704.8	702.3	698.5	696.5	692.7	690.6
12.5°	718.2	719.0	719.0	715.3	709.9	703.1	696.9	690.6	685.6	681.4	678.9
15°	726.5	728.2	726.1	720.7	712.7	703.6	695.2	686.8	680.2	674.7	671.4
17.5°	732.8	732.4	728.6	721.1	713.6	705.7	698.1	689.3	681.0	673.0	668.0
20°	742.4	738.2	731.6	723.6	715.7	709.0	703.1	694.8	686.0	675.1	667.6
22.5°	755.4	747.9	738.2	729.9	722.4	716.1	709.4	702.3	693.1	681.0	670.6
25°	773.8	760.9	749.9	741.6	734.9	727.8	720.3	711.1	701.9	689.3	676.8
27.5°	801.8	782.6	768.8	761.3	755.0	745.4	735.8	724.9	713.2	700.2	686.0
30°	835.7	812.7	796.8	790.1	782.6	771.7	761.3	746.2	729.9	714.4	696.9
32.5°	875.4	851.9	836.1	831.1	818.9	806.4	791.8	771.7	750.4	727.4	706.5
35°	935.6	905.9	891.2	879.5	862.9	847.8	823.1	796.8	766.3	735.8	709.9
37.5°	997.4	967.3	952.3	936.0	914.3	886.7	853.6	816.0	775.4	737.8	706.1
40°	1080.2	1047.6	1028.4	1003.3	968.2	925.1	876.2	824.8	775.4	728.6	690.2
42.5°	1176.8	1146.7	1117.0	1075.6	1019.2	956.5	887.9	821.9	762.1	708.2	667.6
45°	1310.6	1259.2	1211.9	1145.5	1063.1	974.9	889.2	808.1	739.1	679.3	634.1
47.5°	1461.1	1394.6	1311.0	1206.9	1094.5	982.0	877.1	782.2	702.7	637.9	588.6
50°	1634.5	1532.5	1404.2	1255.8	1110.3	972.4	848.2	738.7	652.6	578.2	525.5
52.5°	1833.1	1677.6	1488.7	1290.5	1107.8	943.1	800.5	681.4	585.2	506.2	454.4
55°	2053.4	1835.6	1569.3	1312.6	1085.2	886.3	725.7	600.7	501.7	423.9	378.3
57.5°	2441.8	2112.8	1723.1	1342.3	1038.0	800.2	630.8	498.7	409.3	343.2	299.8
60°	3163.3	2597.3	2014.6	1412.2	966.9	692.3	511.3	391.3	316.4	268.4	236.2
62.5°	3609.8	2938.4	2156.7	1402.1	851.6	544.7	379.6	290.1	231.2	199.4	179.3
65°	3504.0	2804.6	1983.2	1204.4	662.6	386.3	251.2	189.8	158.9	142.6	133.0
66°	3360.2	2655.0	1836.5	1078.6	577.3	322.7	207.4	159.3	136.7	124.6	119.6
67.5°	3058.8	2381.6	1583.9	863.7	432.7	240.4	153.0	125.0	111.2	104.9	101.6
70°	2560.1	1918.8	1120.4	510.0	234.5	130.4	97.8	86.9	83.6	81.5	80.3
72.5°	1979.4	1389.2	654.7	250.8	118.3	84.4	74.4	69.8	68.6	68.6	69.0
75°	1247.0	798.5	293.0	120.8	80.3	68.2	63.5	61.4	61.9	62.3	61.9
77.5°	414.3	275.5	122.0	85.7	69.8	61.9	58.1	57.3	58.1	58.5	58.5
80°	119.2	104.1	88.2	75.7	64.0	57.7	54.4	53.9	56.0	56.5	55.6
82.5°	91.6	85.7	79.9	73.1	61.4	54.4	53.1	53.5	54.8	53.9	50.2
85°	84.0	83.2	59.8	59.3	53.5	51.8	50.6	51.0	49.7	45.1	41.0
87.5°	47.2	43.9	33.8	34.3	39.7	41.0	33.8	35.9	33.4	29.3	26.8
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: P159533

CATALOG NUMBER: VST-F03-LED-E-U-T3-8030

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	689.8	689.8	689.8	689.8	689.8
2.5°	696.5	696.1	696.1	697.3	695.6
5°	704.4	704.0	704.0	705.2	704.0
7.5°	700.6	699.4	698.5	698.1	698.1
10°	688.1	686.8	684.4	683.5	682.7
12.5°	675.1	673.9	671.0	671.0	670.1
15°	667.2	665.5	663.4	662.2	661.3
17.5°	663.0	660.5	658.0	656.8	655.9
20°	661.3	658.0	655.1	653.0	653.0
22.5°	661.7	657.6	654.2	651.7	650.9
25°	665.9	659.6	655.5	653.0	652.1
27.5°	671.8	664.3	658.9	655.5	654.2
30°	679.7	669.3	661.7	657.6	655.9
32.5°	685.1	670.6	660.9	655.1	653.0
35°	684.8	665.9	654.2	646.7	644.2
37.5°	677.2	655.1	639.6	630.4	626.2
40°	660.5	635.0	618.7	609.9	604.9
42.5°	636.2	608.6	594.1	584.4	579.0
45°	598.2	571.0	553.1	545.5	538.4
47.5°	545.5	518.0	502.5	491.6	487.0
50°	483.7	456.1	439.8	431.0	426.8
52.5°	416.0	389.6	377.9	369.5	363.7
55°	345.7	321.5	316.4	307.3	301.8
57.5°	279.7	265.4	260.9	251.6	247.1
60°	218.6	214.0	209.0	203.2	200.6
62.5°	169.3	165.1	163.9	160.1	159.7
65°	129.2	129.6	128.8	127.9	127.1
66°	117.5	117.1	117.5	116.6	116.2
67.5°	99.9	101.6	102.8	102.4	102.4
70°	81.1	82.4	84.0	83.6	83.6
72.5°	69.4	71.5	72.3	71.9	71.9
75°	62.7	64.8	64.8	64.0	63.5
77.5°	58.5	59.3	58.5	57.7	56.9
80°	54.4	53.5	52.3	51.0	50.2
82.5°	47.2	45.1	43.9	41.8	41.8
85°	38.0	36.4	33.4	31.4	29.3
87.5°	24.7	23.8	21.7	16.3	13.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)