

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: P158084

Luminaire Tested: **VST-F12-LED-E-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158084
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-F12-LED-E-U-RW-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(12) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28188 lumens
Efficiency: N/A
Efficacy: 91.9 lumens/watt
Luminous Opening: Rectangular (W 2' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 306.6
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

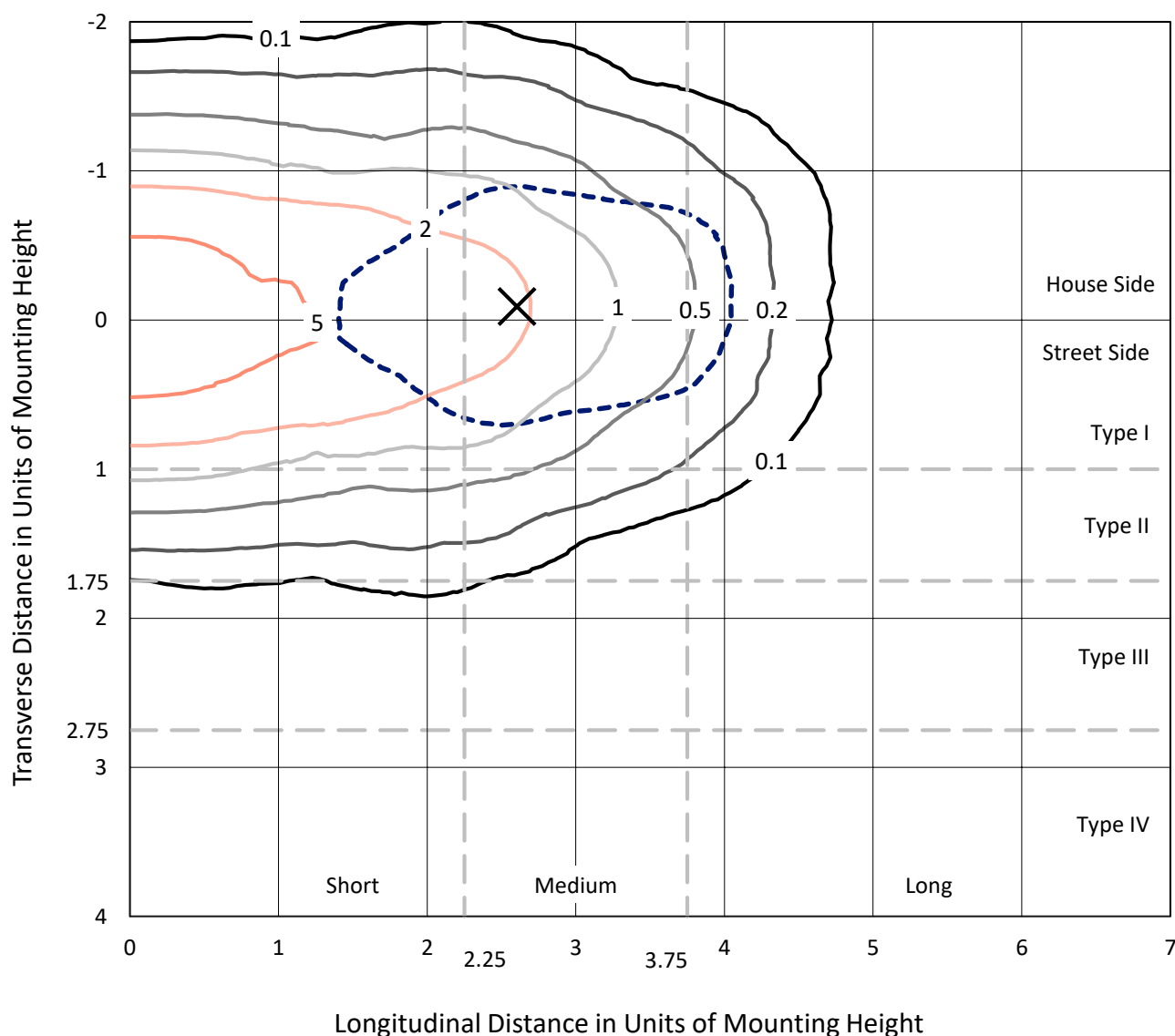


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

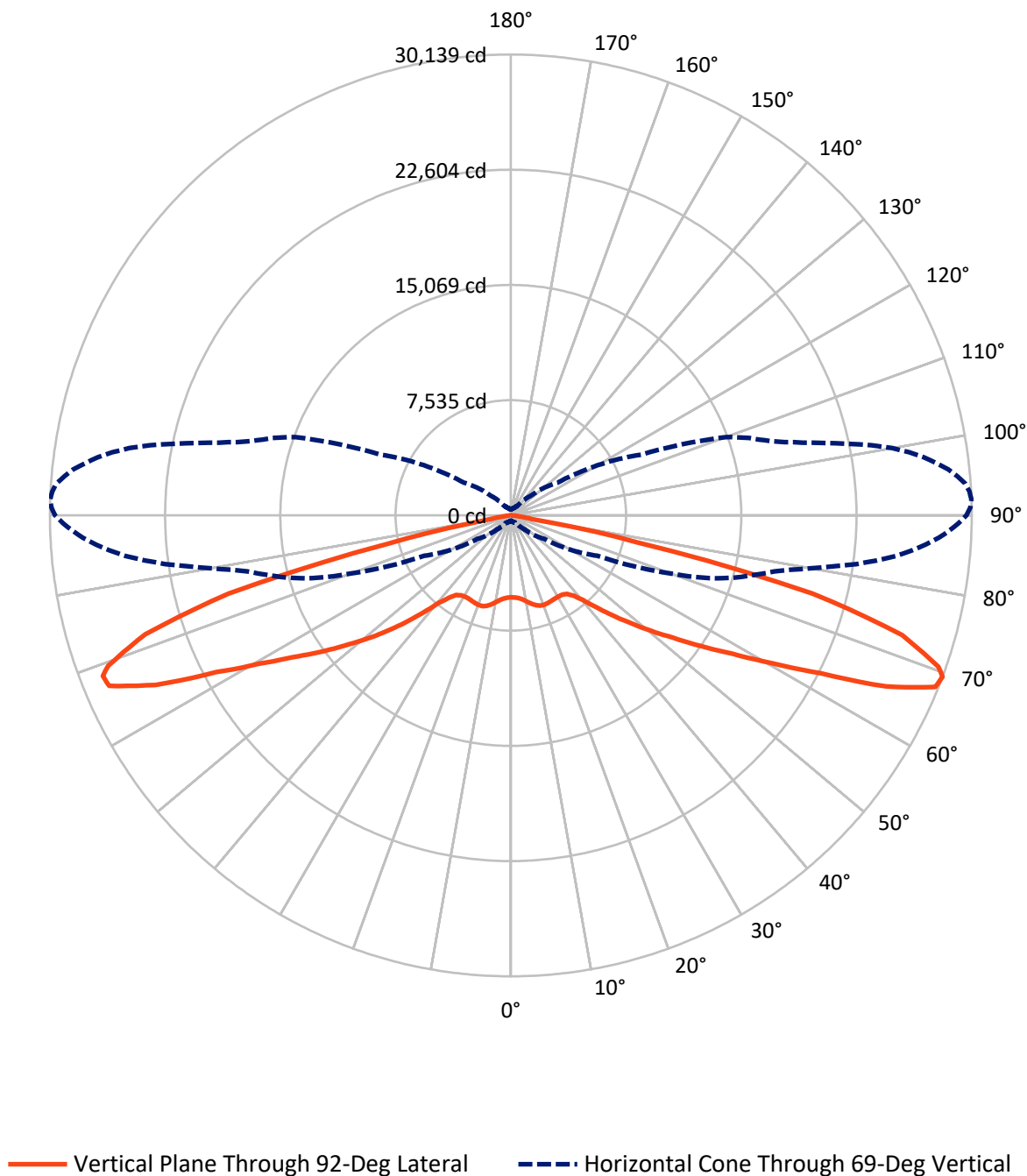


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	14949.6	0.0	14949.6
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	13238.5	0.0	13238.5
	% Fixture	47.0	0.0	47.0
Total	Lumens	28188.0	0.0	28188.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	523.9	1.9
10°-20°	1655.2	5.9
20°-30°	2685.3	9.5
30°-40°	3346.7	11.9
40°-50°	4166.9	14.8
50°-60°	5138.9	18.2
60°-70°	6382.1	22.6
70°-80°	3921.5	13.9
80°-90°	367.5	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°	28188.0	100.0
0°-180°	28188.0	100.0

Coefficient of Utilization



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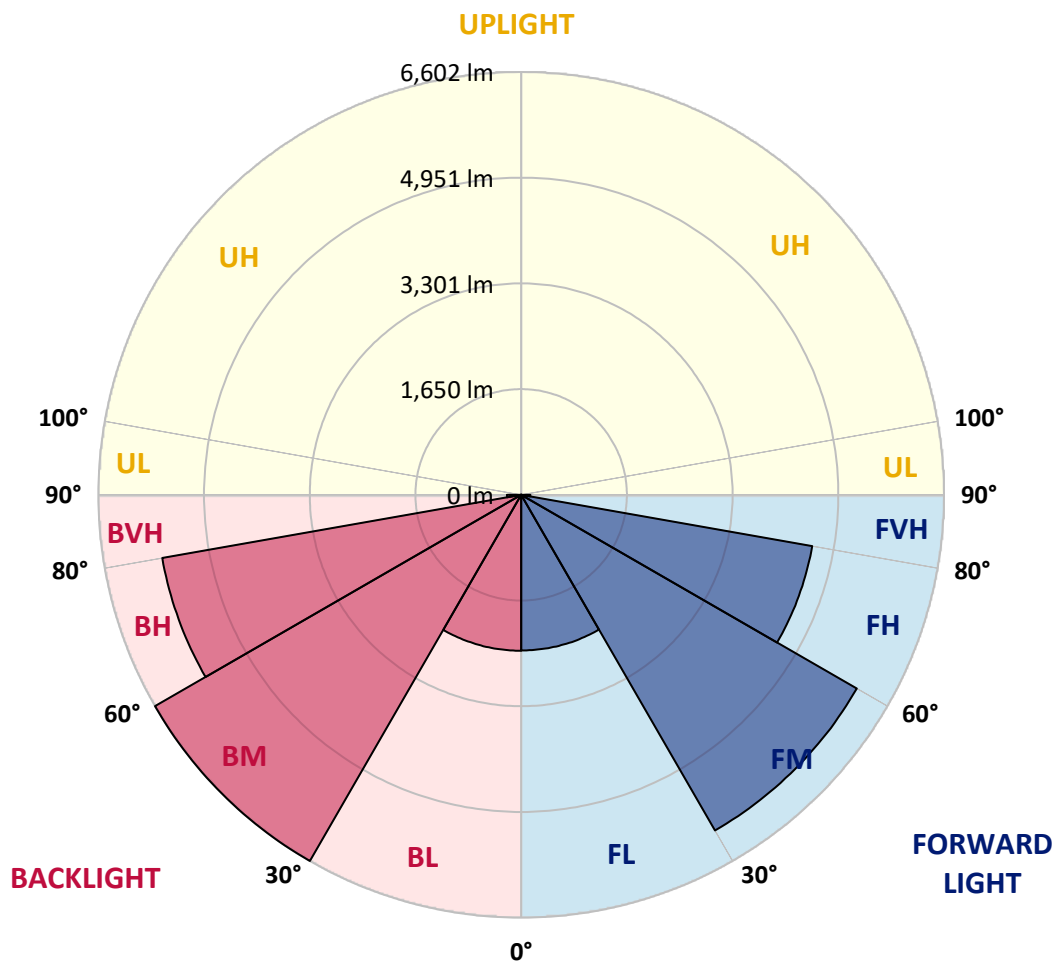
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2429.6	8.6			
FM	(30°-60°)	6050.9	21.5			
FH	(60°-80°)	4614.0	16.4			G2/5000
FVH	(80°-90°)	143.9	0.5			G2/225
BL	(0°-30°)	2434.8	8.6	B3/2500		
BM	(30°-60°)	6601.6	23.4	B4/8500		
BH	(60°-80°)	5689.6	20.2	B5		G5
BVH	(80°-90°)	223.6	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6
2.5°	5439.6	5425.1	5437.8	5439.6	5437.8	5437.8	5421.5	5417.9	5396.2	5401.6	5399.8
5°	5513.8	5508.4	5517.4	5521.0	5524.7	5517.4	5504.8	5499.3	5484.9	5479.4	5477.6
7.5°	5582.6	5573.5	5588.0	5600.7	5609.7	5611.5	5613.3	5604.3	5604.3	5597.0	5597.0
10°	5640.5	5633.2	5656.8	5673.0	5702.0	5718.3	5736.4	5749.0	5756.3	5758.1	5756.3
12.5°	5665.8	5660.4	5698.4	5747.2	5801.5	5839.5	5884.8	5917.3	5926.4	5924.6	5933.6
15°	5622.4	5626.0	5683.9	5779.8	5895.6	5991.5	6054.9	6082.0	6089.3	6092.9	6094.7
17.5°	5504.8	5512.0	5595.2	5750.9	5953.5	6127.3	6221.4	6221.4	6206.9	6206.9	6205.1
20°	5316.6	5323.8	5432.4	5656.8	5955.3	6221.4	6355.3	6328.1	6273.8	6263.0	6252.1
22.5°	5056.0	5084.9	5204.4	5464.9	5877.5	6248.5	6438.5	6398.7	6313.6	6290.1	6273.8
25°	4761.0	4757.4	4900.4	5193.5	5689.3	6183.3	6462.0	6454.8	6364.3	6339.0	6310.0
27.5°	4424.4	4435.3	4567.4	4864.2	5401.6	5995.2	6422.2	6518.1	6443.9	6418.6	6391.5
30°	4078.8	4089.7	4214.5	4560.2	5074.1	5725.5	6340.8	6579.6	6550.7	6530.8	6512.7
32.5°	3731.4	3735.0	3883.4	4254.3	4797.2	5403.4	6217.7	6635.7	6675.6	6666.5	6659.3
35°	3405.6	3409.3	3570.3	3946.7	4524.0	5128.4	6069.3	6717.2	6845.7	6856.5	6863.8
37.5°	3089.0	3094.4	3259.1	3653.6	4254.3	4920.3	5904.7	6842.0	7084.5	7124.3	7131.6
40°	2774.1	2779.5	2937.0	3355.0	3981.1	4737.5	5778.0	7017.6	7406.6	7460.9	7517.0
42.5°	2473.7	2493.6	2627.5	3027.4	3677.1	4511.3	5723.7	7231.1	7788.5	7873.5	7936.8
45°	2193.2	2195.0	2347.0	2721.6	3317.0	4205.5	5687.5	7473.6	8215.5	8344.0	8430.9
47.5°	1892.8	1914.5	2073.8	2437.5	2980.4	3827.3	5571.7	7757.7	8680.6	8830.8	9006.3
50°	1601.5	1632.2	1786.1	2146.2	2672.8	3436.4	5260.5	8090.7	9203.5	9399.0	9601.7
52.5°	1321.0	1319.2	1482.0	1856.6	2363.3	3105.2	4755.6	8439.9	9807.9	10017.9	10236.8
55°	998.9	998.9	1159.9	1502.0	2028.5	2810.3	4214.5	8657.1	10368.9	10622.3	10861.1
57.5°	685.8	703.9	855.9	1150.9	1679.3	2540.7	3800.1	8532.2	10797.8	11112.7	11396.8
60°	508.5	526.6	638.8	827.0	1313.8	2222.2	3488.9	7944.1	11056.6	11474.6	11843.7
62.5°	439.7	452.4	559.2	662.3	946.4	1883.8	3213.8	7196.7	11429.3	12001.2	12515.1
65°	392.7	405.3	512.1	571.8	740.1	1514.6	3060.0	6769.7	11874.5	12748.5	13494.1
67.5°	363.7	378.2	468.7	512.1	646.0	1369.9	2940.6	6670.1	11870.9	12931.3	13883.1
69°	349.2	360.1	434.3	481.3	624.3	1326.4	2681.8	6237.6	11087.3	12225.6	13181.0
70°	340.2	351.1	414.4	461.4	617.1	1248.6	2442.9	5665.8	10195.2	11340.7	12310.6
72.5°	311.2	322.1	369.2	412.6	513.9	834.2	1702.8	3626.4	7285.4	8103.3	9212.6
75°	275.1	287.7	323.9	360.1	389.1	483.2	982.6	1882.0	4165.7	4786.4	5774.4
77.5°	224.4	237.1	275.1	333.0	329.3	367.3	638.8	1156.3	1950.7	2419.4	2785.0
80°	184.6	193.6	226.2	336.6	269.6	307.6	517.5	948.2	1373.5	1518.2	1605.1
82.5°	123.1	135.7	175.5	264.2	206.3	219.0	387.3	886.7	1161.8	1273.9	1378.9
85°	57.9	63.3	106.8	141.1	124.9	117.6	220.8	626.1	865.0	917.5	957.3
87.5°	0.0	0.0	5.4	10.9	16.3	16.3	39.8	132.1	242.5	293.2	289.5
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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CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6
2.5°	5392.6	5394.4	5392.6	5392.6	5390.8	5387.1	5387.1	5383.5	5385.3	5383.5	5387.1
5°	5475.8	5475.8	5470.4	5466.8	5472.2	5466.8	5468.6	5459.5	5459.5	5454.1	5446.8
7.5°	5595.2	5595.2	5597.0	5586.2	5593.4	5595.2	5589.8	5586.2	5582.6	5573.5	5575.3
10°	5754.5	5754.5	5759.9	5745.4	5752.7	5756.3	5758.1	5758.1	5754.5	5738.2	5740.0
12.5°	5931.8	5928.2	5930.0	5922.8	5930.0	5933.6	5937.2	5933.6	5933.6	5930.0	5928.2
15°	6092.9	6091.1	6094.7	6089.3	6091.1	6094.7	6105.5	6103.7	6101.9	6091.1	6091.1
17.5°	6203.3	6197.8	6194.2	6192.4	6192.4	6190.6	6192.4	6192.4	6187.0	6185.2	6185.2
20°	6244.9	6230.4	6221.4	6215.9	6208.7	6205.1	6201.4	6203.3	6199.6	6194.2	6196.0
22.5°	6252.1	6232.2	6214.1	6197.8	6183.3	6174.3	6165.3	6161.6	6152.6	6147.2	6147.2
25°	6286.5	6255.7	6226.8	6199.6	6177.9	6158.0	6138.1	6123.6	6112.8	6100.1	6096.5
27.5°	6362.5	6329.9	6295.5	6261.2	6232.2	6192.4	6165.3	6136.3	6111.0	6091.1	6076.6
30°	6480.1	6447.5	6413.2	6373.4	6335.4	6293.7	6248.5	6214.1	6177.9	6138.1	6116.4
32.5°	6635.7	6614.0	6579.6	6541.6	6507.3	6463.8	6409.5	6357.1	6322.7	6275.6	6241.3
35°	6858.3	6833.0	6822.1	6805.8	6771.5	6744.3	6684.6	6635.7	6603.2	6538.0	6512.7
37.5°	7162.3	7160.5	7169.6	7164.1	7169.6	7135.2	7108.0	7106.2	7059.2	6995.9	6934.3
40°	7576.7	7598.4	7647.3	7681.7	7714.3	7717.9	7755.9	7716.1	7721.5	7712.4	7649.1
42.5°	8049.0	8123.2	8181.1	8282.5	8360.3	8432.7	8481.5	8548.5	8599.1	8644.4	8655.2
45°	8575.6	8686.0	8819.9	8910.4	9062.4	9183.6	9350.1	9478.6	9612.5	9744.6	9791.7
47.5°	9147.4	9285.0	9433.4	9601.7	9793.5	9983.5	10240.4	10437.7	10653.0	10832.2	10991.4
50°	9779.0	9922.0	10121.0	10314.6	10578.8	10797.8	11134.4	11393.1	11740.6	11979.4	12185.7
52.5°	10437.7	10616.8	10839.4	11052.9	11322.6	11603.1	11977.6	12359.5	12777.5	13139.4	13439.8
55°	11081.9	11302.7	11516.2	11765.9	12064.5	12390.2	12813.7	13316.7	13837.9	14252.3	14650.4
57.5°	11655.5	11910.7	12162.2	12415.6	12721.4	13099.6	13575.5	14118.4	14715.5	15267.5	15814.0
60°	12187.6	12493.4	12801.0	13117.7	13468.7	13935.6	14507.4	15175.2	15947.9	16702.5	17417.2
62.5°	13029.0	13430.7	13812.6	14221.5	14645.0	15193.3	15868.2	16744.1	17630.8	18573.6	19306.5
65°	14169.0	14733.6	15233.1	15763.3	16311.6	17044.5	17851.5	18899.3	20169.6	21135.9	22312.2
67.5°	14735.4	15479.2	16121.6	16711.5	17390.1	18130.2	19089.3	20328.9	21684.2	23084.9	24396.8
69°	14069.5	14836.8	15547.9	16208.4	16894.3	17612.7	18615.2	19887.3	21320.5	22835.1	24116.3
70°	13206.3	13973.6	14731.8	15484.6	16110.7	16811.0	17817.2	19129.1	20560.5	22134.8	23405.2
72.5°	10117.4	11040.3	11726.1	12431.8	13157.5	13751.0	14912.8	16018.4	17509.5	19107.4	20506.2
75°	6472.9	7321.6	8070.7	8671.5	9380.9	10092.1	10949.8	12178.5	13112.2	14424.2	15558.8
77.5°	3326.0	3577.5	4299.6	4514.9	5007.1	5394.4	5866.7	6174.3	6934.3	7095.4	7764.9
80°	1576.1	1420.5	1337.3	1261.3	1283.0	1273.9	1235.9	1185.3	1248.6	1221.5	1210.6
82.5°	1373.5	1225.1	977.2	830.6	718.4	609.8	524.8	481.3	486.8	501.3	506.7
85°	962.7	904.8	705.7	535.6	418.0	323.9	260.6	249.7	257.0	276.9	269.6
87.5°	278.7	291.3	257.0	179.1	124.9	90.5	70.6	79.6	76.0	74.2	77.8
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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CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6
2.5°	5387.1	5385.3	5379.9	5374.5	5374.5	5370.8	5374.5	5376.3	5374.5	5374.5	5370.8
5°	5448.7	5450.5	5455.9	5445.0	5443.2	5445.0	5437.8	5436.0	5436.0	5436.0	5428.8
7.5°	5566.3	5571.7	5571.7	5564.5	5562.7	5568.1	5557.2	5553.6	5548.2	5546.4	5544.6
10°	5741.8	5747.2	5738.2	5732.8	5727.3	5734.6	5725.5	5725.5	5720.1	5714.7	5712.9
12.5°	5937.2	5933.6	5930.0	5933.6	5928.2	5928.2	5922.8	5919.2	5917.3	5915.5	5911.9
15°	6089.3	6101.9	6101.9	6105.5	6101.9	6101.9	6094.7	6096.5	6092.9	6091.1	6092.9
17.5°	6187.0	6190.6	6199.6	6205.1	6205.1	6206.9	6203.3	6206.9	6203.3	6203.3	6210.5
20°	6199.6	6203.3	6212.3	6221.4	6226.8	6230.4	6230.4	6235.8	6239.4	6243.1	6252.1
22.5°	6149.0	6154.4	6165.3	6181.5	6190.6	6194.2	6201.4	6210.5	6219.5	6226.8	6239.4
25°	6096.5	6098.3	6109.2	6125.4	6136.3	6145.3	6158.0	6168.9	6181.5	6196.0	6210.5
27.5°	6067.5	6065.7	6074.8	6091.1	6100.1	6112.8	6123.6	6139.9	6154.4	6172.5	6185.2
30°	6092.9	6078.4	6080.2	6087.4	6094.7	6103.7	6116.4	6130.9	6147.2	6163.4	6177.9
32.5°	6205.1	6172.5	6150.8	6145.3	6147.2	6149.0	6156.2	6165.3	6177.9	6190.6	6196.0
35°	6447.5	6391.5	6362.5	6339.0	6319.1	6302.8	6306.4	6304.6	6304.6	6315.4	6302.8
37.5°	6909.0	6838.4	6807.7	6766.0	6742.5	6682.8	6666.5	6662.9	6639.4	6639.4	6612.2
40°	7632.8	7591.2	7567.7	7529.7	7415.7	7430.2	7348.7	7350.5	7283.6	7290.8	7243.8
42.5°	8662.5	8667.9	8639.0	8613.6	8525.0	8485.1	8409.1	8300.6	8215.5	8213.7	8119.6
45°	9853.2	9918.3	9826.0	9858.6	9780.8	9674.0	9585.4	9446.0	9313.9	9272.3	9176.4
47.5°	11098.2	11204.9	11134.4	11147.0	11109.0	10957.0	10837.6	10665.7	10493.8	10378.0	10320.1
50°	12428.2	12498.8	12497.0	12462.6	12444.5	12296.1	12104.3	11974.0	11847.3	11691.7	11641.1
52.5°	13633.4	13798.1	13908.5	13883.1	13830.7	13742.0	13571.9	13459.7	13273.3	13251.6	13273.3
55°	14923.6	15137.2	15249.4	15385.1	15386.9	15370.6	15300.0	15258.4	15084.7	15104.6	15079.3
57.5°	16145.1	16458.2	16630.1	16919.6	17019.1	17151.2	17102.4	17156.7	17051.7	17120.5	17100.6
60°	17800.9	18235.2	18521.1	18917.4	19102.0	19433.1	19498.3	19538.1	19596.0	19737.1	19657.5
62.5°	19883.7	20520.7	21114.2	21653.5	21830.8	22328.5	22409.9	22721.1	22737.4	22833.3	22657.8
65°	23293.0	24069.3	24722.5	25368.6	25741.3	26324.0	26559.3	27163.7	26979.1	27056.9	26682.3
67.5°	25526.0	26429.0	27304.8	27916.5	28535.3	29130.7	29559.6	29950.4	29946.8	29870.8	29537.8
69°	25328.8	26334.9	27198.1	28017.8	28669.2	29280.9	29796.6	30050.0	30138.6	30028.2	29791.2
70°	24646.5	25679.8	26736.6	27411.6	28120.9	28792.3	29324.3	29601.2	29662.7	29584.9	29380.4
72.5°	21494.2	22485.9	23651.3	24264.7	25122.5	25607.4	26340.3	26698.6	26761.9	26662.4	26528.5
75°	16774.8	16954.0	18141.1	18532.0	19154.5	19713.6	20169.6	20053.8	20377.7	20314.4	20263.7
77.5°	7902.5	7424.7	8193.8	8552.1	8363.9	7862.6	8591.9	8065.3	8414.6	8868.8	8753.0
80°	1302.9	1299.3	1333.7	1409.7	1319.2	1400.6	1398.8	1359.0	1362.6	1460.3	1409.7
82.5°	501.3	512.1	517.5	532.0	532.0	533.8	542.9	553.7	544.7	562.8	559.2
85°	271.4	289.5	273.2	260.6	269.6	275.1	282.3	291.3	282.3	309.4	295.0
87.5°	70.6	74.2	65.1	65.1	63.3	57.9	57.9	61.5	67.0	79.6	86.9
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-F12-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6
2.5°	5363.6	5365.4	5367.2	5361.8	5358.2	5358.2	5356.4	5352.8	5350.9	5350.9	5350.9
5°	5425.1	5428.8	5419.7	5417.9	5414.3	5410.7	5410.7	5407.0	5408.8	5408.8	5399.8
7.5°	5548.2	5542.8	5531.9	5524.7	5531.9	5519.2	5513.8	5517.4	5513.8	5515.6	5512.0
10°	5712.9	5712.9	5700.2	5707.4	5698.4	5683.9	5689.3	5683.9	5680.3	5667.6	5674.9
12.5°	5917.3	5911.9	5904.7	5888.4	5883.0	5881.1	5864.9	5866.7	5861.2	5857.6	5852.2
15°	6096.5	6094.7	6078.4	6069.3	6067.5	6060.3	6053.1	6049.4	6040.4	6038.6	6035.0
17.5°	6215.9	6210.5	6203.3	6194.2	6194.2	6183.3	6179.7	6170.7	6168.9	6163.4	6158.0
20°	6255.7	6257.5	6250.3	6243.1	6239.4	6232.2	6226.8	6219.5	6215.9	6208.7	6203.3
22.5°	6246.7	6246.7	6239.4	6237.6	6230.4	6219.5	6212.3	6203.3	6194.2	6185.2	6174.3
25°	6217.7	6215.9	6210.5	6201.4	6192.4	6176.1	6161.6	6147.2	6134.5	6123.6	6107.3
27.5°	6192.4	6188.8	6177.9	6165.3	6147.2	6129.1	6101.9	6082.0	6065.7	6051.2	6033.2
30°	6183.3	6170.7	6154.4	6134.5	6112.8	6085.6	6056.7	6031.3	6013.2	5998.8	5991.5
32.5°	6194.2	6177.9	6152.6	6127.3	6100.1	6067.5	6038.6	6016.9	6000.6	5997.0	5997.0
35°	6293.7	6266.6	6232.2	6196.0	6161.6	6134.5	6114.6	6112.8	6101.9	6114.6	6134.5
37.5°	6585.1	6561.6	6509.1	6462.0	6438.5	6425.8	6407.7	6411.4	6386.0	6425.8	6458.4
40°	7204.0	7175.0	7113.5	7075.5	7028.4	6983.2	7019.4	7008.5	7026.6	7019.4	7053.8
42.5°	8106.9	8078.0	7980.3	7965.8	7945.9	7927.8	7927.8	7913.3	7906.1	7931.4	7902.5
45°	9205.4	9147.4	9111.3	9154.7	9095.0	9113.1	9176.4	9091.4	9111.3	8993.6	8885.1
47.5°	10345.4	10340.0	10330.9	10383.4	10392.4	10419.6	10454.0	10367.1	10209.7	10121.0	9900.2
50°	11657.3	11713.4	11735.2	11785.8	11807.5	11827.4	11773.2	11644.7	11378.7	11143.4	10882.8
52.5°	13251.6	13153.9	13287.8	13336.6	13314.9	13235.3	13039.9	12882.4	12515.1	12176.7	11773.2
55°	15108.2	15131.7	15037.6	14999.6	14925.5	14704.7	14435.1	14080.4	13615.3	13173.8	12663.5
57.5°	16999.2	16990.2	16843.6	16637.3	16385.8	16119.8	15718.0	15209.6	14666.7	14073.1	13456.1
60°	19299.2	19290.2	18993.4	18640.5	18282.2	17853.4	17223.6	16612.0	15884.5	15104.6	14369.9
62.5°	22321.2	21932.2	21640.8	21114.2	20560.5	19999.5	19147.2	18334.7	17363.0	16378.5	15520.8
65°	26193.7	25553.1	25222.0	24458.3	23600.6	22724.8	21858.0	20790.3	19482.0	18291.3	17243.5
67.5°	29058.3	28472.0	27865.8	27104.0	26163.0	25185.8	23998.7	22654.2	21168.5	19833.0	18691.2
69°	29309.8	28761.5	28034.1	27270.4	26380.1	25317.9	24022.2	22516.7	21011.1	19659.3	18535.6
70°	28928.0	28345.3	27579.9	26785.5	25790.2	24787.7	23430.5	21861.6	20354.2	18998.8	17902.2
72.5°	26079.7	25511.5	24697.2	23747.2	22726.6	21868.8	20580.4	18944.5	17305.1	16052.8	15198.7
75°	19831.2	19706.4	19129.1	18575.4	17771.9	16814.7	15636.6	14536.4	13191.9	11867.3	11071.0
77.5°	8461.6	8749.3	9049.7	9093.2	9122.1	8827.2	8644.4	8367.5	7468.2	7059.2	6637.6
80°	1563.5	1397.0	1491.1	1502.0	1563.5	1596.1	1715.5	2034.0	2070.2	2148.0	2243.9
82.5°	555.5	564.6	579.1	584.5	589.9	611.6	693.1	830.6	955.5	1118.3	1335.5
85°	314.9	320.3	333.0	343.8	351.1	372.8	418.0	499.4	622.5	808.9	1096.6
87.5°	95.9	108.6	115.8	130.3	135.7	139.3	159.2	213.5	275.1	407.2	593.5
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-F12-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6	5354.6
2.5°	5350.9	5349.1	5345.5	5341.9	5343.7	5340.1	5329.2	5325.6	5312.9	5303.9	5296.7
5°	5399.8	5398.0	5390.8	5392.6	5390.8	5372.7	5360.0	5338.3	5325.6	5305.7	5298.5
7.5°	5501.1	5499.3	5486.7	5492.1	5488.5	5461.3	5439.6	5405.2	5387.1	5361.8	5341.9
10°	5653.1	5653.1	5638.7	5640.5	5640.5	5604.3	5566.3	5508.4	5466.8	5426.9	5392.6
12.5°	5837.7	5830.5	5828.7	5819.6	5812.4	5772.6	5714.7	5636.9	5559.0	5493.9	5446.8
15°	6024.1	6013.2	6007.8	5997.0	5987.9	5951.7	5873.9	5778.0	5673.0	5568.1	5490.3
17.5°	6145.3	6138.1	6127.3	6123.6	6111.0	6074.8	6020.5	5924.6	5794.3	5647.7	5530.1
20°	6190.6	6177.9	6170.7	6163.4	6156.2	6130.9	6130.9	6069.3	5924.6	5718.3	5539.1
22.5°	6161.6	6154.4	6143.5	6138.1	6130.9	6134.5	6205.1	6196.0	6029.5	5734.6	5474.0
25°	6094.7	6085.6	6076.6	6076.6	6074.8	6112.8	6282.9	6306.4	6060.3	5655.0	5331.0
27.5°	6025.9	6013.2	6016.9	6018.7	6027.7	6109.2	6367.9	6335.4	5977.1	5463.1	5084.9
30°	5984.3	5984.3	5993.3	6007.8	6025.9	6168.9	6434.9	6270.2	5761.7	5173.6	4759.2
32.5°	6002.4	6020.5	6040.4	6076.6	6103.7	6301.0	6458.4	6101.9	5448.7	4815.3	4419.0
35°	6163.4	6185.2	6223.2	6279.3	6311.8	6491.0	6458.4	5855.8	5084.9	4507.7	4067.9
37.5°	6514.5	6536.2	6581.5	6624.9	6657.5	6729.8	6431.3	5542.8	4780.9	4189.2	3753.1
40°	7079.1	7109.9	7142.4	7135.2	7113.5	7042.9	6377.0	5251.4	4500.4	3910.5	3443.6
42.5°	7873.5	7844.5	7840.9	7770.4	7698.0	7395.8	6337.2	5061.4	4259.8	3617.4	3136.0
45°	8791.0	8673.3	8552.1	8458.0	8347.6	7783.0	6326.3	4907.6	3993.8	3291.6	2801.2
47.5°	9713.8	9525.7	9290.4	9143.8	8964.7	8195.6	6358.9	4701.3	3651.7	2937.0	2488.2
50°	10618.6	10311.0	10019.7	9844.1	9641.5	8669.7	6411.4	4353.9	3242.8	2614.8	2202.3
52.5°	11456.5	11060.2	10761.6	10555.3	10307.4	9221.6	6364.3	3897.8	2888.1	2305.4	1930.8
55°	12252.7	11814.8	11505.3	11288.2	10996.8	9775.4	6024.1	3483.4	2549.7	2003.2	1625.0
57.5°	12949.4	12529.6	12207.5	11912.5	11666.4	10256.7	5352.8	3141.4	2224.0	1657.6	1293.9
60°	13763.7	13291.4	12909.6	12594.7	12305.2	10504.6	4600.0	2837.4	1876.5	1283.0	935.6
62.5°	14862.1	14319.2	13877.7	13517.6	13139.4	10558.9	4086.0	2533.4	1489.3	928.3	680.4
65°	16490.7	15821.2	15269.3	14773.4	14261.3	10334.5	3832.7	2202.3	1107.5	689.5	570.0
67.5°	17784.6	17089.7	16450.9	15814.0	15158.9	9918.3	3776.6	1896.4	850.5	586.3	512.1
69°	17627.2	16964.9	16378.5	15689.1	14963.5	9395.4	3720.5	1778.8	776.3	544.7	485.0
70°	17021.0	16393.0	15797.7	15236.7	14348.2	8812.7	3572.1	1713.7	747.4	524.8	465.1
72.5°	14382.6	13655.1	13077.9	12379.4	11443.8	6548.9	2708.9	1386.1	685.8	479.5	419.8
75°	10490.2	9887.6	9312.1	8539.4	7629.2	3789.3	1686.5	792.6	503.1	434.3	380.0
77.5°	6125.4	5989.7	5434.2	4925.7	4024.5	1929.0	968.1	474.1	390.9	394.5	334.8
80°	2305.4	2455.6	2511.7	2336.2	2158.8	1331.9	703.9	385.4	340.2	389.1	284.1
82.5°	1681.1	1950.7	1983.3	1900.1	1768.0	1241.4	562.8	309.4	276.9	418.0	244.3
85°	1402.4	1552.6	1576.1	1489.3	1445.9	1051.4	392.7	217.2	202.7	300.4	182.8
87.5°	709.4	747.4	767.3	694.9	698.5	490.4	157.4	92.3	110.4	128.5	101.3
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):

	175°	180°
0°	5354.6	5354.6
2.5°	5280.4	5291.2
5°	5287.6	5287.6
7.5°	5329.2	5329.2
10°	5374.5	5376.3
12.5°	5416.1	5414.3
15°	5448.7	5443.2
17.5°	5468.6	5463.1
20°	5448.7	5439.6
22.5°	5347.3	5322.0
25°	5162.7	5130.2
27.5°	4918.5	4896.7
30°	4600.0	4567.4
32.5°	4227.2	4210.9
35°	3870.7	3850.8
37.5°	3545.0	3539.5
40°	3269.9	3241.0
42.5°	2947.8	2935.1
45°	2620.3	2613.0
47.5°	2312.6	2305.4
50°	2028.5	2014.1
52.5°	1749.9	1726.3
55°	1440.4	1424.1
57.5°	1105.7	1091.2
60°	778.1	761.8
62.5°	553.7	535.6
65°	461.4	447.0
67.5°	418.0	401.7
69°	398.1	383.6
70°	385.4	374.6
72.5°	358.3	351.1
75°	327.5	322.1
77.5°	287.7	278.7
80°	240.7	231.6
82.5°	202.7	193.6
85°	135.7	123.1
87.5°	61.5	54.3
90°	0.0	0.0

(END OF REPORT)