

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: P158064

Luminaire Tested: **VST-F10-LED-E-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158064
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-F10-LED-E-U-RW-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (70) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 23490 lumens
Efficiency: N/A
Efficacy: 90.8 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

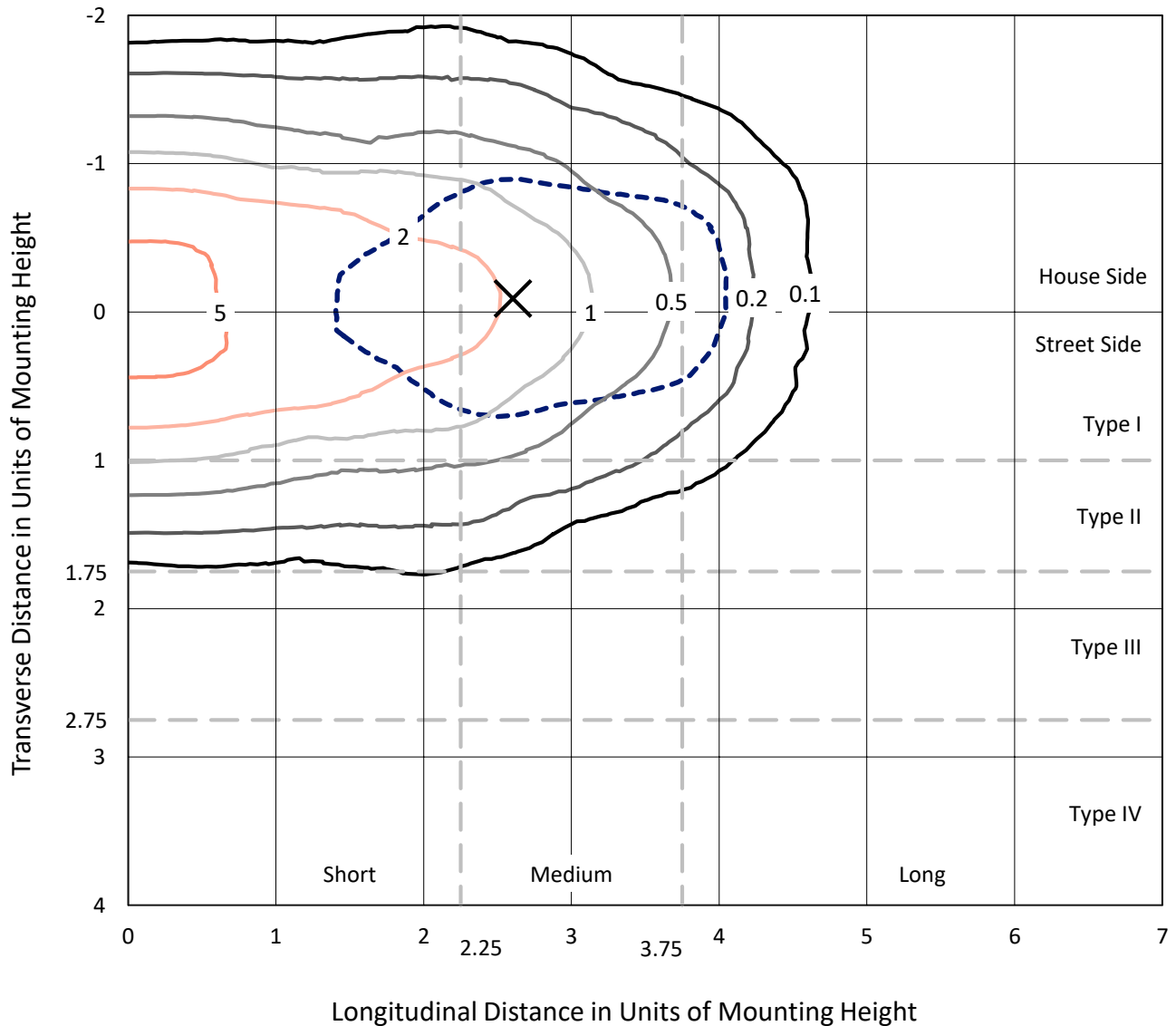
Input Watts (W): 258.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

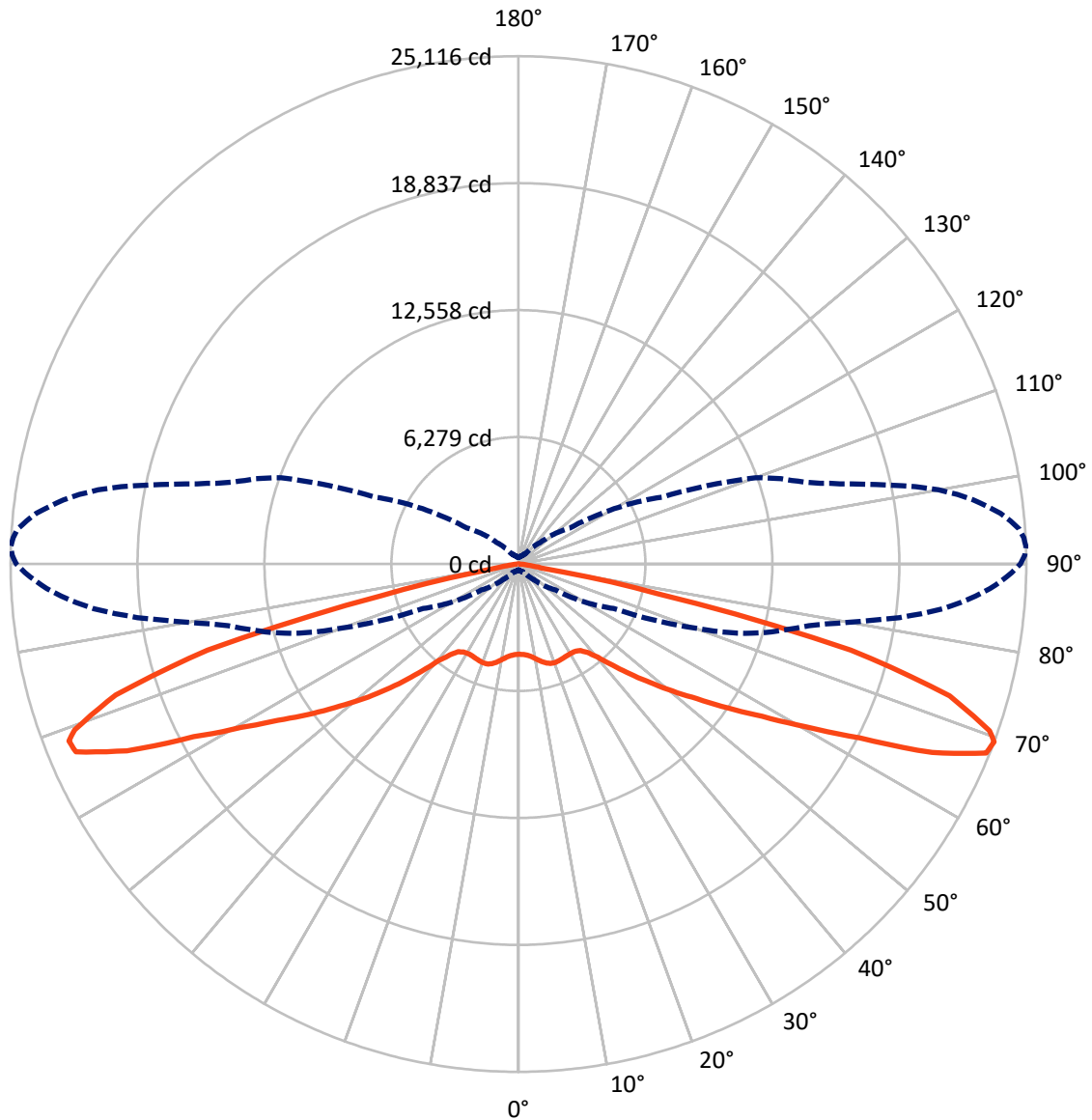
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 7.3 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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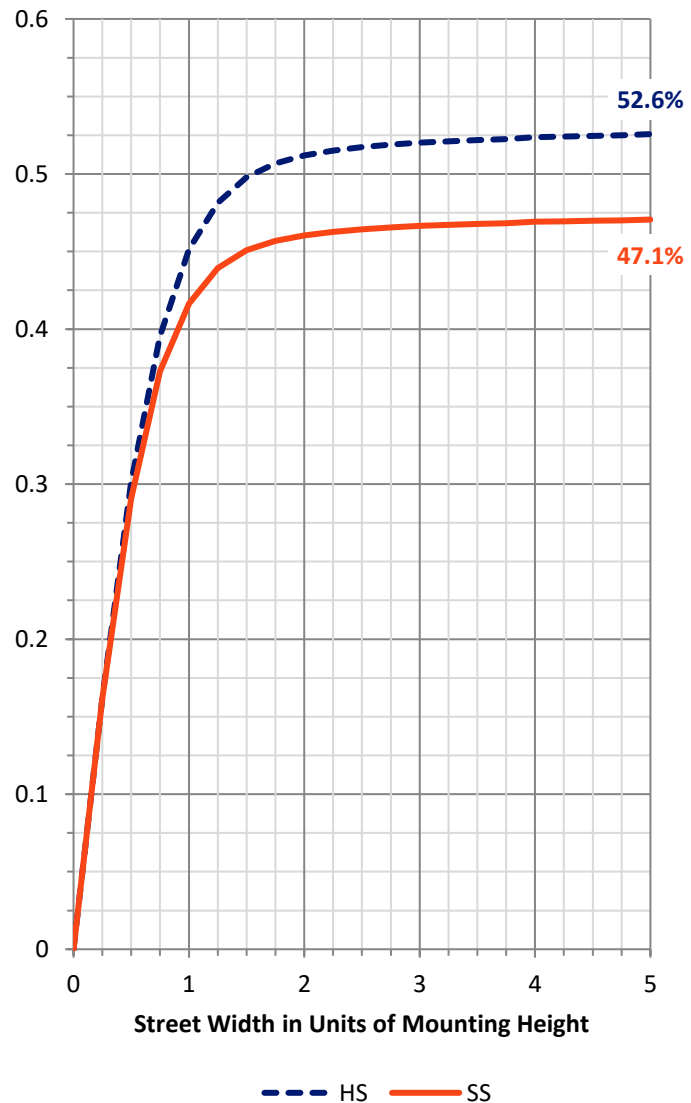
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	12458.0	0.0	12458.0
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	11032.1	0.0	11032.1
	% Fixture	47.0	0.0	47.0
Total	Lumens	23490.0	0.0	23490.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	436.6	1.9
10°-20°	1379.3	5.9
20°-30°	2237.8	9.5
30°-40°	2788.9	11.9
40°-50°	3472.4	14.8
50°-60°	4282.4	18.2
60°-70°	5318.4	22.6
70°-80°	3267.9	13.9
80°-90°	306.3	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°	23490.0	100.0
0°-180°	23490.0	100.0



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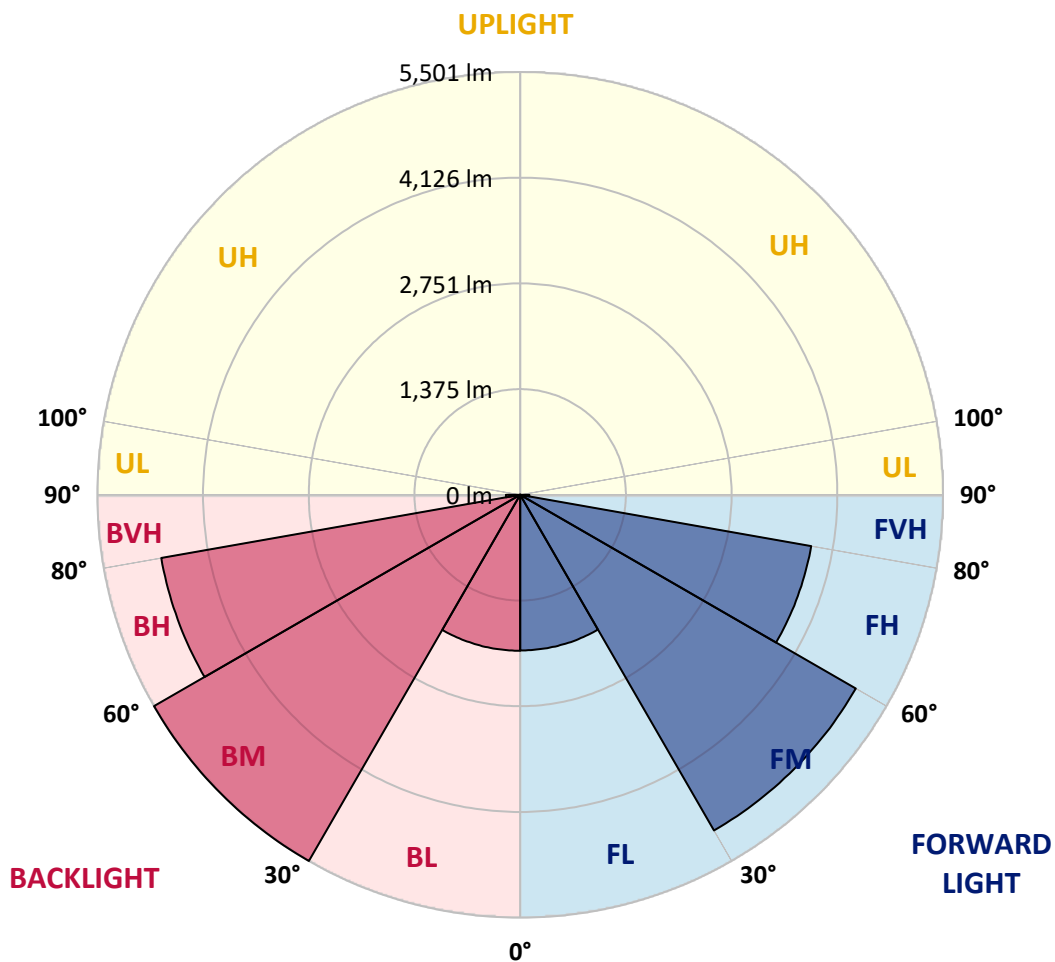
CATALOG NUMBER: VST-F10-LED-E-U-RW-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2024.7	8.6			
FM	(30°-60°)	5042.4	21.5			
FH	(60°-80°)	3845.0	16.4			G2/5000
FVH	(80°-90°)	119.9	0.5			G2/225
BL	(0°-30°)	2029.0	8.6	B3/2500		
BM	(30°-60°)	5501.3	23.4	B4/8500		
BH	(60°-80°)	4741.3	20.2	B4/5000		G4/5000
BVH	(80°-90°)	186.4	0.8			G2/225
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B4-U0-G4

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1
2.5°	4533.0	4520.9	4531.5	4533.0	4531.5	4531.5	4517.9	4514.9	4496.8	4501.3	4499.8
5°	4594.8	4590.3	4597.9	4600.9	4603.9	4597.9	4587.3	4582.8	4570.7	4566.2	4564.7
7.5°	4652.1	4644.6	4656.7	4667.2	4674.8	4676.3	4677.8	4670.2	4670.2	4664.2	4664.2
10°	4700.4	4694.4	4714.0	4727.5	4751.7	4765.2	4780.3	4790.9	4796.9	4798.4	4796.9
12.5°	4721.5	4717.0	4748.7	4789.4	4834.6	4866.3	4904.0	4931.1	4938.7	4937.1	4944.7
15°	4685.3	4688.3	4736.6	4816.5	4913.0	4992.9	5045.7	5068.3	5074.4	5077.4	5078.9
17.5°	4587.3	4593.3	4662.7	4792.4	4961.3	5106.0	5184.5	5184.5	5172.4	5172.4	5170.9
20°	4430.5	4436.5	4527.0	4714.0	4962.8	5184.5	5296.1	5273.4	5228.2	5219.1	5210.1
22.5°	4213.3	4237.4	4337.0	4554.1	4897.9	5207.1	5365.4	5332.2	5261.4	5241.8	5228.2
25°	3967.5	3964.5	4083.6	4327.9	4741.1	5152.8	5385.0	5379.0	5303.6	5282.5	5258.4
27.5°	3687.0	3696.1	3806.2	4053.5	4501.3	4996.0	5351.8	5431.8	5369.9	5348.8	5326.2
30°	3399.0	3408.1	3512.1	3800.1	4228.4	4771.3	5284.0	5483.0	5458.9	5442.3	5427.2
32.5°	3109.5	3112.5	3236.1	3545.3	3997.7	4502.8	5181.4	5529.8	5563.0	5555.4	5549.4
35°	2838.0	2841.0	2975.3	3288.9	3770.0	4273.6	5057.8	5597.6	5704.7	5713.8	5719.8
37.5°	2574.1	2578.7	2715.9	3044.6	3545.3	4100.2	4920.6	5701.7	5903.8	5936.9	5943.0
40°	2311.7	2316.3	2447.5	2795.8	3317.6	3947.9	4815.0	5848.0	6172.2	6217.4	6264.2
42.5°	2061.4	2078.0	2189.6	2522.9	3064.2	3759.4	4769.8	6025.9	6490.4	6561.3	6614.0
45°	1827.7	1829.2	1955.9	2268.0	2764.1	3504.6	4739.6	6228.0	6846.3	6953.3	7025.7
47.5°	1577.4	1595.5	1728.2	2031.3	2483.7	3189.4	4643.1	6464.7	7233.8	7359.0	7505.3
50°	1334.6	1360.2	1488.4	1788.5	2227.3	2863.7	4383.7	6742.2	7669.6	7832.5	8001.4
52.5°	1100.8	1099.3	1235.0	1547.2	1969.4	2587.7	3963.0	7033.3	8173.3	8348.2	8530.7
55°	832.4	832.4	966.6	1251.6	1690.5	2341.9	3512.1	7214.2	8640.8	8851.9	9050.9
57.5°	571.5	586.6	713.3	959.1	1399.4	2117.2	3166.8	7110.2	8998.2	9260.5	9497.3
60°	423.7	438.8	532.3	689.2	1094.8	1851.8	2907.4	6620.1	9213.8	9562.1	9869.8
62.5°	366.4	377.0	466.0	551.9	788.7	1569.8	2678.2	5997.3	9524.4	10001.0	10429.2
65°	327.2	337.8	426.8	476.5	616.8	1262.2	2550.0	5641.4	9895.4	10623.8	11245.1
67.5°	303.1	315.2	390.6	426.8	538.4	1141.5	2450.5	5558.4	9892.4	10776.1	11569.3
69°	291.0	300.1	361.9	401.1	520.3	1105.4	2234.8	5198.0	9239.4	10188.0	10984.2
70°	283.5	292.5	345.3	384.5	514.2	1040.5	2035.8	4721.5	8496.0	9450.6	10258.8
72.5°	259.4	268.4	307.6	343.8	428.3	695.2	1419.0	3022.0	6071.2	6752.8	7677.2
75°	229.2	239.8	269.9	300.1	324.2	402.6	818.8	1568.3	3471.4	3988.6	4812.0
77.5°	187.0	197.5	229.2	277.5	274.5	306.1	532.3	963.6	1625.6	2016.2	2320.8
80°	153.8	161.4	188.5	280.5	224.7	256.4	431.3	790.2	1144.6	1265.2	1337.6
82.5°	102.5	113.1	146.3	220.2	171.9	182.5	322.7	738.9	968.1	1061.6	1149.1
85°	48.3	52.8	89.0	117.6	104.1	98.0	184.0	521.8	720.8	764.5	797.7
87.5°	0.0	0.0	4.5	9.0	13.6	13.6	33.2	110.1	202.1	244.3	241.3
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-F10-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1
2.5°	4493.8	4495.3	4493.8	4493.8	4492.3	4489.3	4489.3	4486.3	4487.8	4486.3	4489.3
5°	4563.2	4563.2	4558.6	4555.6	4560.2	4555.6	4557.1	4549.6	4549.6	4545.1	4539.0
7.5°	4662.7	4662.7	4664.2	4655.2	4661.2	4662.7	4658.2	4655.2	4652.1	4644.6	4646.1
10°	4795.4	4795.4	4799.9	4787.9	4793.9	4796.9	4798.4	4798.4	4795.4	4781.8	4783.3
12.5°	4943.2	4940.2	4941.7	4935.6	4941.7	4944.7	4947.7	4944.7	4944.7	4941.7	4940.2
15°	5077.4	5075.9	5078.9	5074.4	5075.9	5078.9	5087.9	5086.4	5084.9	5075.9	5075.9
17.5°	5169.4	5164.9	5161.8	5160.3	5160.3	5158.8	5160.3	5160.3	5155.8	5154.3	5154.3
20°	5204.1	5192.0	5184.5	5179.9	5173.9	5170.9	5167.9	5169.4	5166.4	5161.8	5163.3
22.5°	5210.1	5193.5	5178.4	5164.9	5152.8	5145.3	5137.7	5134.7	5127.2	5122.6	5122.6
25°	5238.7	5213.1	5189.0	5166.4	5148.3	5131.7	5115.1	5103.0	5094.0	5083.4	5080.4
27.5°	5302.1	5274.9	5246.3	5217.6	5193.5	5160.3	5137.7	5113.6	5092.5	5075.9	5063.8
30°	5400.1	5373.0	5344.3	5311.1	5279.5	5244.8	5207.1	5178.4	5148.3	5115.1	5097.0
32.5°	5529.8	5511.7	5483.0	5451.4	5422.7	5386.5	5341.3	5297.6	5268.9	5229.7	5201.0
35°	5715.3	5694.2	5685.1	5671.5	5642.9	5620.3	5570.5	5529.8	5502.6	5448.4	5427.2
37.5°	5968.6	5967.1	5974.6	5970.1	5974.6	5946.0	5923.4	5921.9	5882.7	5829.9	5778.6
40°	6313.9	6332.0	6372.8	6401.4	6428.5	6431.6	6463.2	6430.1	6434.6	6427.0	6374.3
42.5°	6707.5	6769.4	6817.6	6902.1	6966.9	7027.2	7067.9	7123.7	7166.0	7203.7	7212.7
45°	7146.4	7238.3	7349.9	7425.3	7552.0	7653.0	7791.8	7898.8	8010.4	8120.5	8159.7
47.5°	7622.9	7737.5	7861.1	8001.4	8161.2	8319.6	8533.7	8698.1	8877.5	9026.8	9159.5
50°	8149.2	8268.3	8434.2	8595.5	8815.7	8998.2	9278.6	9494.3	9783.8	9982.9	10154.8
52.5°	8698.1	8847.4	9032.8	9210.8	9435.5	9669.2	9981.4	10299.6	10647.9	10949.5	11199.8
55°	9234.9	9418.9	9596.8	9804.9	10053.7	10325.2	10678.1	11097.3	11531.6	11876.9	12208.7
57.5°	9712.9	9925.6	10135.2	10346.3	10601.1	10916.3	11312.9	11765.3	12262.9	12722.9	13178.3
60°	10156.3	10411.1	10667.5	10931.4	11223.9	11613.0	12089.5	12646.0	13289.9	13918.7	14514.4
62.5°	10857.5	11192.3	11510.5	11851.3	12204.1	12661.1	13223.5	13953.4	14692.3	15478.0	16088.7
65°	11807.5	12278.0	12694.2	13136.1	13593.0	14203.7	14876.3	15749.4	16808.0	17613.3	18593.5
67.5°	12279.5	12899.3	13434.7	13926.3	14491.8	15108.5	15907.8	16940.7	18070.2	19237.4	20330.7
69°	11724.6	12364.0	12956.6	13507.0	14078.6	14677.2	15512.7	16572.8	17767.1	19029.3	20096.9
70°	11005.3	11644.7	12276.5	12903.8	13425.6	14009.2	14847.6	15940.9	17133.7	18445.7	19504.3
72.5°	8431.2	9200.2	9771.8	10359.9	10964.6	11459.2	12427.3	13348.7	14591.3	15922.8	17088.5
75°	5394.1	6101.3	6725.6	7226.3	7817.4	8410.0	9124.8	10148.8	10926.9	12020.2	12965.7
77.5°	2771.7	2981.3	3583.0	3762.4	4172.6	4495.3	4888.9	5145.3	5778.6	5912.8	6470.8
80°	1313.5	1183.8	1114.4	1051.1	1069.2	1061.6	1030.0	987.7	1040.5	1017.9	1008.8
82.5°	1144.6	1020.9	814.3	692.2	598.7	508.2	437.3	401.1	405.6	417.7	422.2
85°	802.2	754.0	588.1	446.4	348.3	269.9	217.2	208.1	214.1	230.7	224.7
87.5°	232.2	242.8	214.1	149.3	104.1	75.4	58.8	66.4	63.3	61.8	64.8
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°	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1
2.5°	4489.3	4487.8	4483.2	4478.7	4478.7	4475.7	4478.7	4480.2	4478.7	4478.7	4475.7
5°	4540.5	4542.1	4546.6	4537.5	4536.0	4537.5	4531.5	4530.0	4525.5	4530.0	4524.0
7.5°	4638.6	4643.1	4643.1	4637.1	4635.6	4640.1	4631.0	4628.0	4623.5	4622.0	4620.5
10°	4784.8	4789.4	4781.8	4777.3	4772.8	4778.8	4771.3	4771.3	4766.7	4762.2	4760.7
12.5°	4947.7	4944.7	4941.7	4944.7	4940.2	4940.2	4935.6	4932.6	4931.1	4929.6	4926.6
15°	5074.4	5084.9	5084.9	5087.9	5084.9	5084.9	5078.9	5080.4	5077.4	5075.9	5077.4
17.5°	5155.8	5158.8	5166.4	5170.9	5170.9	5172.4	5169.4	5172.4	5169.4	5169.4	5175.4
20°	5166.4	5169.4	5176.9	5184.5	5189.0	5192.0	5192.0	5196.5	5199.5	5202.6	5210.1
22.5°	5124.1	5128.7	5137.7	5151.3	5158.8	5161.8	5167.9	5175.4	5183.0	5189.0	5199.5
25°	5080.4	5081.9	5091.0	5104.5	5113.6	5121.1	5131.7	5140.7	5151.3	5163.3	5175.4
27.5°	5056.3	5054.8	5062.3	5075.9	5083.4	5094.0	5103.0	5116.6	5128.7	5143.7	5154.3
30°	5077.4	5065.3	5066.8	5072.9	5078.9	5086.4	5097.0	5109.1	5122.6	5136.2	5148.3
32.5°	5170.9	5143.7	5125.6	5121.1	5122.6	5124.1	5130.2	5137.7	5148.3	5158.8	5163.3
35°	5373.0	5326.2	5302.1	5282.5	5265.9	5252.3	5255.3	5253.8	5253.8	5262.9	5252.3
37.5°	5757.5	5698.7	5673.0	5638.4	5618.8	5569.0	5555.4	5552.4	5532.8	5532.8	5510.2
40°	6360.7	6326.0	6306.4	6274.7	6179.7	6191.8	6123.9	6125.4	6069.6	6075.7	6036.5
42.5°	7218.7	7223.3	7199.1	7178.0	7104.1	7071.0	7007.6	6917.1	6846.3	6844.8	6766.3
45°	8211.0	8265.3	8188.4	8215.5	8150.7	8061.7	7987.8	7871.7	7761.6	7726.9	7647.0
47.5°	9248.5	9337.5	9278.6	9289.2	9257.5	9130.9	9031.3	8888.1	8744.8	8648.3	8600.0
50°	10356.9	10415.7	10414.2	10385.5	10370.4	10246.8	10086.9	9978.3	9872.8	9743.1	9700.9
52.5°	11361.2	11498.4	11590.4	11569.3	11525.5	11451.7	11309.9	11216.4	11061.1	11043.0	11061.1
55°	12436.4	12614.3	12707.8	12820.9	12822.4	12808.8	12750.0	12715.3	12570.6	12587.2	12566.1
57.5°	13454.3	13715.1	13858.4	14099.7	14182.6	14292.7	14252.0	14297.2	14209.8	14267.1	14250.5
60°	14834.1	15196.0	15434.2	15764.5	15918.3	16194.3	16248.6	16281.7	16330.0	16447.6	16381.3
62.5°	16569.8	17100.6	17595.2	18044.6	18192.4	18607.1	18674.9	18934.3	18947.9	19027.8	18881.5
65°	19410.8	20057.7	20602.1	21140.5	21451.1	21936.7	22132.7	22636.4	22482.6	22547.4	22235.3
67.5°	21271.7	22024.1	22754.0	23263.7	23779.4	24275.6	24633.0	24958.7	24955.7	24892.3	24614.9
69°	21107.3	21945.7	22665.0	23348.2	23891.0	24400.7	24830.5	25041.6	25115.5	25023.5	24826.0
70°	20538.8	21399.8	22280.5	22843.0	23434.1	23993.6	24436.9	24667.7	24718.9	24654.1	24483.7
72.5°	17911.9	18738.2	19709.4	20220.6	20935.4	21339.5	21950.3	22248.8	22301.6	22218.7	22107.1
75°	13979.0	14128.3	15117.6	15443.3	15962.0	16428.0	16808.0	16711.5	16981.4	16928.7	16886.4
77.5°	6585.4	6187.3	6828.2	7126.7	6969.9	6552.2	7159.9	6721.1	7012.1	7390.6	7294.1
80°	1085.8	1082.7	1111.4	1174.7	1099.3	1167.2	1165.7	1132.5	1135.5	1216.9	1174.7
82.5°	417.7	426.8	431.3	443.3	443.3	444.9	452.4	461.4	453.9	469.0	466.0
85°	226.2	241.3	227.7	217.2	224.7	229.2	235.2	242.8	235.2	257.9	245.8
87.5°	58.8	61.8	54.3	54.3	52.8	48.3	48.3	51.3	55.8	66.4	72.4
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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CATALOG NUMBER: VST-F10-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1
2.5°	4469.7	4471.2	4472.7	4468.2	4465.1	4465.1	4463.6	4460.6	4459.1	4459.1	4459.1
5°	4520.9	4524.0	4516.4	4514.9	4511.9	4508.9	4508.9	4505.9	4507.4	4507.4	4499.8
7.5°	4623.5	4619.0	4609.9	4603.9	4609.9	4599.4	4594.8	4597.9	4594.8	4596.3	4593.3
10°	4760.7	4760.7	4750.2	4756.2	4748.7	4736.6	4741.1	4736.6	4733.6	4723.0	4729.0
12.5°	4931.1	4926.6	4920.6	4907.0	4902.5	4901.0	4887.4	4888.9	4884.4	4881.4	4876.8
15°	5080.4	5078.9	5065.3	5057.8	5056.3	5050.2	5044.2	5041.2	5033.7	5032.2	5029.1
17.5°	5179.9	5175.4	5169.4	5161.8	5161.8	5152.8	5149.8	5142.2	5140.7	5136.2	5131.7
20°	5213.1	5214.6	5208.6	5202.6	5199.5	5193.5	5189.0	5183.0	5179.9	5173.9	5169.4
22.5°	5205.6	5205.6	5199.5	5198.0	5192.0	5183.0	5176.9	5169.4	5161.8	5154.3	5145.3
25°	5181.4	5179.9	5175.4	5167.9	5160.3	5146.8	5134.7	5122.6	5112.1	5103.0	5089.5
27.5°	5160.3	5157.3	5148.3	5137.7	5122.6	5107.6	5084.9	5068.3	5054.8	5042.7	5027.6
30°	5152.8	5142.2	5128.7	5112.1	5094.0	5071.4	5047.2	5026.1	5011.0	4999.0	4992.9
32.5°	5161.8	5148.3	5127.2	5106.0	5083.4	5056.3	5032.2	5014.1	5000.5	4997.5	4997.5
35°	5244.8	5222.2	5193.5	5163.3	5134.7	5112.1	5095.5	5094.0	5084.9	5095.5	5112.1
37.5°	5487.6	5468.0	5424.2	5385.0	5365.4	5354.9	5339.8	5342.8	5321.7	5354.9	5382.0
40°	6003.3	5979.2	5927.9	5896.2	5857.0	5819.3	5849.5	5840.4	5855.5	5849.5	5878.1
42.5°	6755.8	6731.7	6650.2	6638.2	6621.6	6606.5	6606.5	6594.4	6588.4	6609.5	6585.4
45°	7671.1	7622.9	7592.7	7628.9	7579.1	7594.2	7647.0	7576.1	7592.7	7494.7	7404.2
47.5°	8621.2	8616.6	8609.1	8652.8	8660.4	8683.0	8711.6	8639.3	8508.1	8434.2	8250.2
50°	9714.5	9761.2	9779.3	9821.5	9839.6	9856.2	9811.0	9703.9	9482.2	9286.2	9069.0
52.5°	11043.0	10961.6	11073.1	11113.9	11095.8	11029.4	10866.6	10735.4	10429.2	10147.2	9811.0
55°	12590.2	12609.8	12531.4	12499.7	12437.9	12253.9	12029.2	11733.6	11346.1	10978.1	10552.9
57.5°	14166.0	14158.5	14036.3	13864.4	13654.8	13433.1	13098.4	12674.6	12222.2	11727.6	11213.4
60°	16082.7	16075.1	15827.8	15533.8	15235.2	14877.8	14353.0	13843.3	13237.1	12587.2	11974.9
62.5°	18601.0	18276.8	18034.0	17595.2	17133.7	16666.3	15956.0	15278.9	14469.1	13648.8	12934.0
65°	21828.1	21294.3	21018.3	20382.0	19667.2	18937.3	18215.0	17325.3	16235.0	15242.7	14369.6
67.5°	24215.3	23726.7	23221.5	22586.6	21802.5	20988.2	19998.9	18878.5	17640.4	16527.5	15576.0
69°	24424.9	23967.9	23361.7	22725.4	21983.4	21098.2	20018.5	18763.9	17509.2	16382.8	15446.3
70°	24106.7	23621.1	22983.2	22321.2	21491.8	20656.4	19525.4	18218.0	16961.8	15832.4	14918.5
72.5°	21733.1	21259.6	20581.0	19789.3	18938.8	18224.0	17150.3	15787.1	14420.9	13377.4	12665.6
75°	16526.0	16422.0	15940.9	15479.5	14809.9	14012.2	13030.5	12113.7	10993.2	9889.4	9225.9
77.5°	7051.3	7291.1	7541.4	7577.6	7601.8	7356.0	7203.7	6972.9	6223.5	5882.7	5531.3
80°	1302.9	1164.2	1242.6	1251.6	1302.9	1330.0	1429.6	1695.0	1725.1	1790.0	1869.9
82.5°	463.0	470.5	482.6	487.1	491.6	509.7	577.6	692.2	796.2	931.9	1112.9
85°	262.4	266.9	277.5	286.5	292.5	310.6	348.3	416.2	518.7	674.1	913.8
87.5°	79.9	90.5	96.5	108.6	113.1	116.1	132.7	177.9	229.2	339.3	494.6
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-F10-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1	4462.1
2.5°	4459.1	4457.6	4454.6	4451.6	4453.1	4450.1	4441.0	4438.0	4427.4	4419.9	4413.9
5°	4499.8	4498.3	4492.3	4493.8	4492.3	4477.2	4466.7	4448.6	4438.0	4421.4	4415.4
7.5°	4584.3	4582.8	4572.2	4576.7	4573.7	4551.1	4533.0	4504.4	4489.3	4468.2	4451.6
10°	4711.0	4711.0	4698.9	4700.4	4700.4	4670.2	4638.6	4590.3	4555.6	4522.5	4493.8
12.5°	4864.8	4858.7	4857.2	4849.7	4843.7	4810.5	4762.2	4697.4	4632.5	4578.2	4539.0
15°	5020.1	5011.0	5006.5	4997.5	4989.9	4959.8	4894.9	4815.0	4727.5	4640.1	4575.2
17.5°	5121.1	5115.1	5106.0	5103.0	5092.5	5062.3	5017.1	4937.1	4828.6	4706.4	4608.4
20°	5158.8	5148.3	5142.2	5136.2	5130.2	5109.1	5109.1	5057.8	4937.1	4765.2	4615.9
22.5°	5134.7	5128.7	5119.6	5115.1	5109.1	5112.1	5170.9	5163.3	5024.6	4778.8	4561.7
25°	5078.9	5071.4	5063.8	5063.8	5062.3	5094.0	5235.7	5255.3	5050.2	4712.5	4442.5
27.5°	5021.6	5011.0	5014.1	5015.6	5023.1	5091.0	5306.6	5279.5	4980.9	4552.6	4237.4
30°	4986.9	4986.9	4994.5	5006.5	5021.6	5140.7	5362.4	5225.2	4801.4	4311.3	3966.0
32.5°	5002.0	5017.1	5033.7	5063.8	5086.4	5250.8	5382.0	5084.9	4540.5	4012.8	3682.5
35°	5136.2	5154.3	5186.0	5232.7	5259.9	5409.1	5382.0	4879.8	4237.4	3756.4	3390.0
37.5°	5428.8	5446.8	5484.5	5520.7	5547.9	5608.2	5359.4	4619.0	3984.1	3491.0	3127.6
40°	5899.2	5924.9	5952.0	5946.0	5927.9	5869.1	5314.1	4376.2	3750.4	3258.8	2869.7
42.5°	6561.3	6537.1	6534.1	6475.3	6415.0	6163.1	5281.0	4217.8	3549.8	3014.5	2613.3
45°	7325.8	7227.8	7126.7	7048.3	6956.3	6485.9	5271.9	4089.7	3328.1	2743.0	2334.4
47.5°	8094.9	7938.0	7742.0	7619.9	7470.6	6829.7	5299.1	3917.8	3043.1	2447.5	2073.5
50°	8848.9	8592.5	8349.7	8203.4	8034.6	7224.8	5342.8	3628.2	2702.3	2179.0	1835.2
52.5°	9547.1	9216.8	8968.0	8796.1	8589.5	7684.7	5303.6	3248.2	2406.7	1921.2	1609.0
55°	10210.6	9845.6	9587.8	9406.8	9164.0	8146.1	5020.1	2902.9	2124.8	1669.3	1354.2
57.5°	10791.2	10441.3	10172.9	9927.1	9722.0	8547.3	4460.6	2617.9	1853.3	1381.3	1078.2
60°	11469.7	11076.2	10758.0	10495.6	10254.3	8753.9	3833.3	2364.5	1563.8	1069.2	779.6
62.5°	12385.1	11932.7	11564.8	11264.7	10949.5	8799.1	3405.0	2111.2	1241.1	773.6	567.0
65°	13742.3	13184.3	12724.4	12311.2	11884.4	8612.1	3193.9	1835.2	922.9	574.5	475.0
67.5°	14820.5	14241.4	13709.1	13178.3	12632.4	8265.3	3147.2	1580.4	708.8	488.6	426.8
69°	14689.3	14137.4	13648.8	13074.2	12469.5	7829.5	3100.4	1482.4	646.9	453.9	404.1
70°	14184.1	13660.9	13164.7	12697.3	11956.8	7343.9	2976.8	1428.1	622.8	437.3	387.6
72.5°	11985.5	11379.3	10898.2	10316.1	9536.5	5457.4	2257.5	1155.1	571.5	399.6	349.9
75°	8741.8	8239.6	7760.1	7116.2	6357.7	3157.7	1405.4	660.5	419.2	361.9	316.7
77.5°	5104.5	4991.4	4528.5	4104.7	3353.8	1607.5	806.8	395.1	325.7	328.7	279.0
80°	1921.2	2046.3	2093.1	1946.8	1799.0	1109.9	586.6	321.2	283.5	324.2	236.8
82.5°	1400.9	1625.6	1652.8	1583.4	1473.3	1034.5	469.0	257.9	230.7	348.3	203.6
85°	1168.7	1293.9	1313.5	1241.1	1204.9	876.1	327.2	181.0	168.9	250.3	152.3
87.5°	591.1	622.8	639.4	579.1	582.1	408.7	131.2	76.9	92.0	107.1	84.4
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):

	175°	180°
0°	4462.1	4462.1
2.5°	4400.3	4409.4
5°	4406.3	4406.3
7.5°	4441.0	4441.0
10°	4478.7	4480.2
12.5°	4513.4	4511.9
15°	4540.5	4536.0
17.5°	4557.1	4552.6
20°	4540.5	4533.0
22.5°	4456.1	4435.0
25°	4302.3	4275.1
27.5°	4098.7	4080.6
30°	3833.3	3806.2
32.5°	3522.7	3509.1
35°	3225.6	3209.0
37.5°	2954.1	2949.6
40°	2724.9	2700.8
42.5°	2456.5	2446.0
45°	2183.6	2177.5
47.5°	1927.2	1921.2
50°	1690.5	1678.4
52.5°	1458.2	1438.6
55°	1200.4	1186.8
57.5°	921.4	909.3
60°	648.4	634.9
62.5°	461.4	446.4
65°	384.5	372.5
67.5°	348.3	334.8
69°	331.8	319.7
70°	321.2	312.2
72.5°	298.6	292.5
75°	272.9	268.4
77.5°	239.8	232.2
80°	200.6	193.0
82.5°	168.9	161.4
85°	113.1	102.5
87.5°	51.3	45.2
90°	0.0	0.0

(END OF REPORT)