

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: P158063

Luminaire Tested: **VST-F10-LED-E-U-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158063
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (70) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21706.2 lumens
Efficiency: N/A
Efficacy: 83.9 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

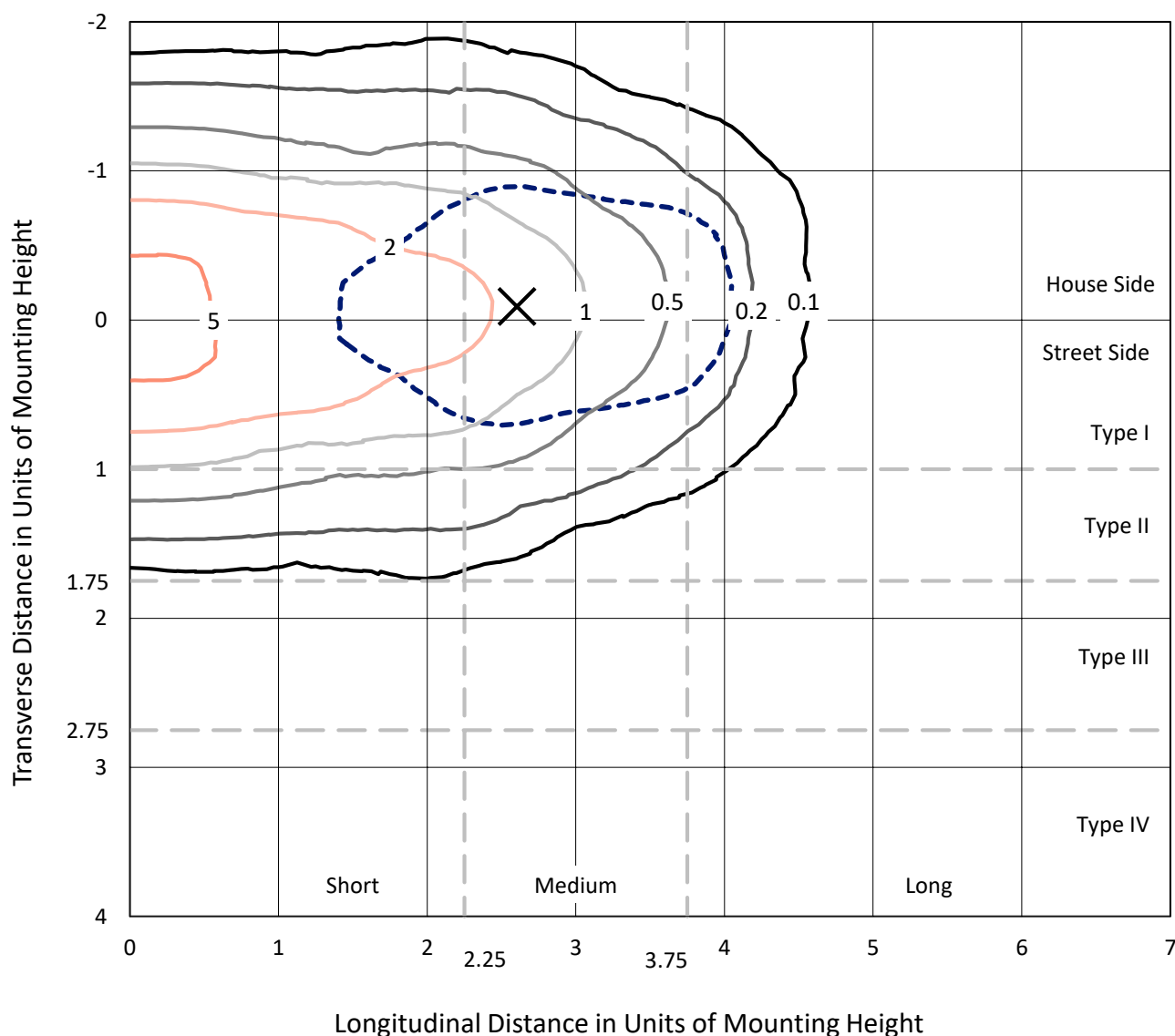


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

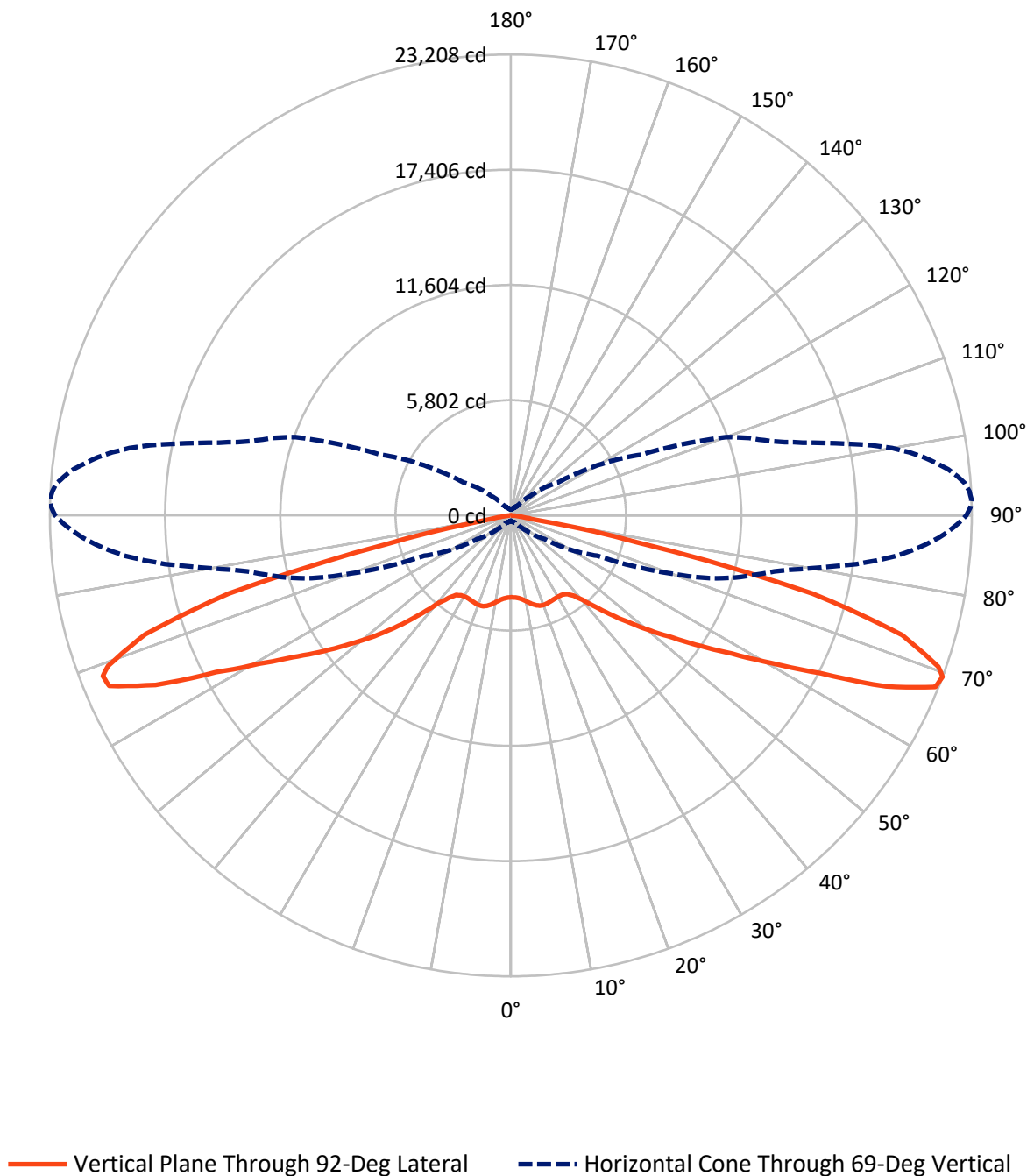


Based on 25 foot mounting height. Maximum calculated value = 6.8 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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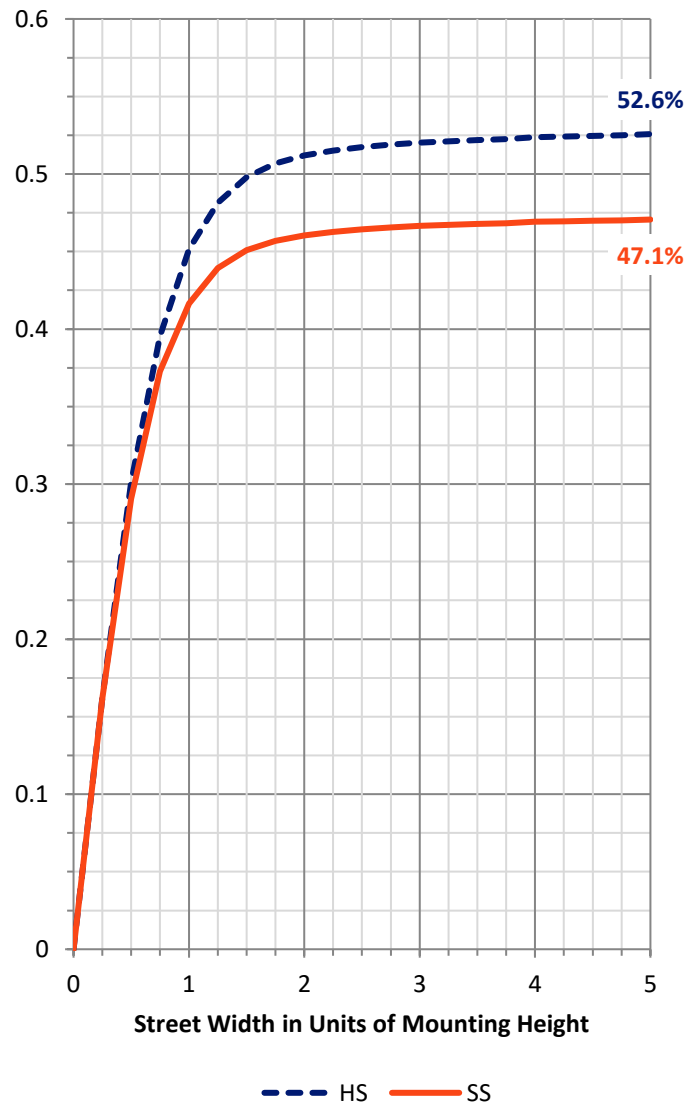
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11511.9	0.0	11511.9
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	10194.3	0.0	10194.3
	% Fixture	47.0	0.0	47.0
Total	Lumens	21706.2	0.0	21706.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	403.5	1.9
10°-20°	1274.6	5.9
20°-30°	2067.8	9.5
30°-40°	2577.1	11.9
40°-50°	3208.7	14.8
50°-60°	3957.2	18.2
60°-70°	4914.6	22.6
70°-80°	3019.7	13.9
80°-90°	283.0	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°	21706.2	100.0
0°-180°	21706.2	100.0

Coefficient of Utilization



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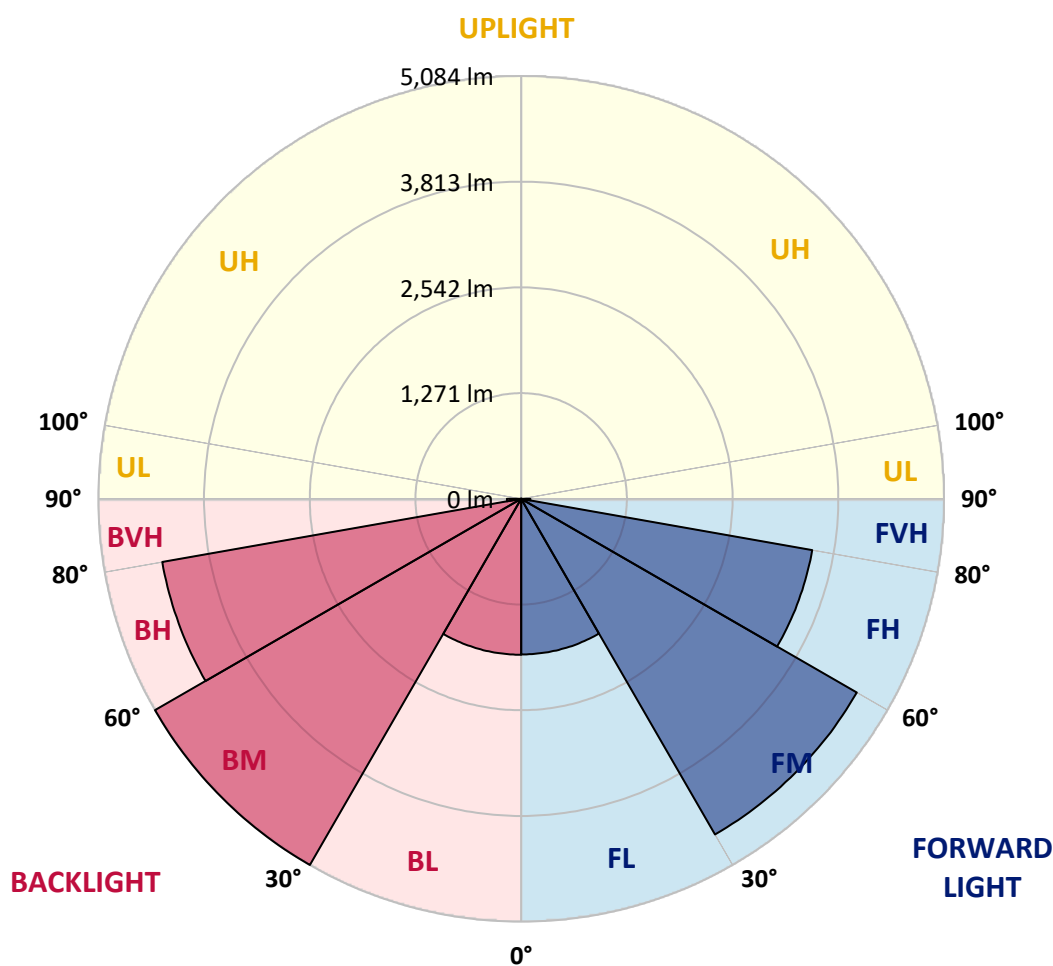
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1871.0	8.6			
FM	(30°-60°)	4659.5	21.5			
FH	(60°-80°)	3553.0	16.4			G2/5000
FVH	(80°-90°)	110.8	0.5			G2/225
BL	(0°-30°)	1874.9	8.6	B3/2500		
BM	(30°-60°)	5083.6	23.4	B4/8500		
BH	(60°-80°)	4381.3	20.2	B4/5000		G4/5000
BVH	(80°-90°)	172.2	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°	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3
2.5°	4188.8	4177.6	4187.4	4188.8	4187.4	4187.4	4174.8	4172.1	4155.3	4159.5	4158.1
5°	4245.9	4241.7	4248.7	4251.5	4254.3	4248.7	4238.9	4234.8	4223.6	4219.4	4218.0
7.5°	4298.9	4291.9	4303.0	4312.8	4319.8	4321.2	4322.5	4315.6	4315.6	4310.0	4310.0
10°	4343.4	4337.9	4356.0	4368.5	4390.8	4403.4	4417.3	4427.1	4432.6	4434.0	4432.6
12.5°	4363.0	4358.8	4388.0	4425.7	4467.5	4496.7	4531.6	4556.7	4563.6	4562.2	4569.2
15°	4329.5	4332.3	4376.9	4450.7	4539.9	4613.8	4662.6	4683.5	4689.0	4691.8	4693.2
17.5°	4238.9	4244.5	4308.6	4428.5	4584.5	4718.3	4790.8	4790.8	4779.6	4779.6	4778.2
20°	4094.0	4099.6	4183.2	4356.0	4585.9	4790.8	4893.9	4873.0	4831.2	4822.8	4814.4
22.5°	3893.4	3915.7	4007.6	4208.3	4526.0	4811.7	4958.0	4927.3	4861.8	4843.7	4831.2
25°	3666.2	3663.4	3773.5	3999.3	4381.1	4761.5	4976.1	4970.5	4900.8	4881.3	4859.0
27.5°	3407.0	3415.4	3517.1	3745.7	4159.5	4616.6	4945.4	5019.3	4962.2	4942.6	4921.7
30°	3140.9	3149.2	3245.4	3511.5	3907.3	4408.9	4882.7	5066.7	5044.4	5029.0	5015.1
32.5°	2873.3	2876.1	2990.4	3276.1	3694.1	4160.9	4788.0	5109.9	5140.5	5133.5	5128.0
35°	2622.5	2625.3	2749.3	3039.2	3483.7	3949.1	4673.7	5172.6	5271.5	5279.9	5285.4
37.5°	2378.7	2382.8	2509.6	2813.4	3276.1	3788.8	4546.9	5268.7	5455.4	5486.1	5491.7
40°	2136.2	2140.4	2261.6	2583.5	3065.6	3648.1	4449.4	5403.9	5703.5	5745.3	5788.5
42.5°	1904.9	1920.2	2023.3	2331.3	2831.5	3473.9	4407.5	5568.3	5997.5	6063.0	6111.8
45°	1688.9	1690.3	1807.3	2095.8	2554.2	3238.4	4379.7	5755.0	6326.4	6425.3	6492.2
47.5°	1457.6	1474.3	1596.9	1877.0	2295.0	2947.2	4290.5	5973.8	6684.5	6800.1	6935.3
50°	1233.2	1256.9	1375.4	1652.7	2058.2	2646.2	4050.8	6230.2	7087.2	7237.7	7393.8
52.5°	1017.2	1015.8	1141.3	1429.7	1819.9	2391.2	3662.0	6499.1	7552.6	7714.3	7882.9
55°	769.2	769.2	893.2	1156.6	1562.1	2164.1	3245.4	6666.4	7984.6	8179.7	8363.6
57.5°	528.1	542.1	659.1	886.2	1293.1	1956.4	2926.3	6570.2	8314.8	8557.3	8776.1
60°	391.6	405.5	491.9	636.8	1011.7	1711.2	2686.6	6117.3	8514.1	8836.0	9120.3
62.5°	338.6	348.4	430.6	510.0	728.8	1450.6	2474.8	5541.8	8801.2	9241.5	9637.2
65°	302.4	312.1	394.4	440.3	569.9	1166.3	2356.4	5213.0	9144.0	9817.0	10391.1
67.5°	280.1	291.2	360.9	394.4	497.5	1054.9	2264.4	5136.3	9141.2	9957.7	10690.7
69°	268.9	277.3	334.4	370.7	480.7	1021.4	2065.1	4803.3	8537.8	9414.3	10150.0
70°	262.0	270.3	319.1	355.3	475.2	961.5	1881.2	4363.0	7850.8	8732.9	9479.8
72.5°	239.7	248.0	284.3	317.7	395.7	642.4	1311.3	2792.5	5610.1	6240.0	7094.2
75°	211.8	221.6	249.4	277.3	299.6	372.1	756.7	1449.2	3207.8	3685.7	4446.6
77.5°	172.8	182.5	211.8	256.4	253.6	282.9	491.9	890.4	1502.2	1863.1	2144.6
80°	142.1	149.1	174.2	259.2	207.6	236.9	398.5	730.2	1057.6	1169.1	1236.0
82.5°	94.8	104.5	135.2	203.4	158.9	168.6	298.2	682.8	894.6	981.0	1061.8
85°	44.6	48.8	82.2	108.7	96.1	90.6	170.0	482.1	666.1	706.5	737.1
87.5°	0.0	0.0	4.2	8.4	12.5	12.5	30.7	101.7	186.7	225.7	223.0
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°	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3
2.5°	4152.5	4153.9	4152.5	4152.5	4151.2	4148.4	4148.4	4145.6	4147.0	4145.6	4148.4
5°	4216.6	4216.6	4212.5	4209.7	4213.9	4209.7	4211.1	4204.1	4204.1	4199.9	4194.3
7.5°	4308.6	4308.6	4310.0	4301.6	4307.2	4308.6	4304.4	4301.6	4298.9	4291.9	4293.3
10°	4431.2	4431.2	4435.4	4424.3	4429.8	4432.6	4434.0	4434.0	4431.2	4418.7	4420.1
12.5°	4567.8	4565.0	4566.4	4560.8	4566.4	4569.2	4572.0	4569.2	4569.2	4566.4	4565.0
15°	4691.8	4690.4	4693.2	4689.0	4690.4	4693.2	4701.6	4700.2	4698.8	4690.4	4690.4
17.5°	4776.8	4772.6	4769.9	4768.5	4768.5	4767.1	4768.5	4768.5	4764.3	4762.9	4762.9
20°	4808.9	4797.7	4790.8	4786.6	4781.0	4778.2	4775.4	4776.8	4774.0	4769.9	4771.2
22.5°	4814.4	4799.1	4785.2	4772.6	4761.5	4754.5	4747.6	4744.8	4737.8	4733.6	4733.6
25°	4840.9	4817.2	4794.9	4774.0	4757.3	4742.0	4726.7	4715.5	4707.1	4697.4	4694.6
27.5°	4899.4	4874.4	4847.9	4821.4	4799.1	4768.5	4747.6	4725.3	4705.8	4690.4	4679.3
30°	4990.0	4964.9	4938.5	4907.8	4878.5	4846.5	4811.7	4785.2	4757.3	4726.7	4709.9
32.5°	5109.9	5093.1	5066.7	5037.4	5010.9	4977.5	4935.7	4895.3	4868.8	4832.6	4806.1
35°	5281.3	5261.7	5253.4	5240.8	5214.4	5193.5	5147.5	5109.9	5084.8	5034.6	5015.1
37.5°	5515.4	5514.0	5520.9	5516.8	5520.9	5494.5	5473.6	5472.2	5435.9	5387.2	5339.8
40°	5834.5	5851.2	5888.8	5915.3	5940.4	5943.2	5972.4	5941.8	5945.9	5939.0	5890.2
42.5°	6198.2	6255.3	6299.9	6377.9	6437.8	6493.6	6531.2	6582.8	6621.8	6656.6	6665.0
45°	6603.7	6688.7	6791.8	6861.5	6978.5	7071.9	7200.1	7299.0	7402.1	7503.8	7540.1
47.5°	7044.0	7149.9	7264.2	7393.8	7541.5	7687.8	7885.7	8037.5	8203.4	8341.3	8463.9
50°	7530.3	7640.4	7793.7	7942.8	8146.2	8314.8	8574.0	8773.3	9040.8	9224.8	9383.6
52.5°	8037.5	8175.5	8346.9	8511.3	8718.9	8934.9	9223.4	9517.4	9839.3	10118.0	10349.3
55°	8533.6	8703.6	8868.1	9060.3	9290.3	9541.1	9867.2	10254.6	10655.9	10975.0	11281.5
57.5°	8975.3	9171.8	9365.5	9560.6	9796.1	10087.3	10453.8	10871.9	11331.7	11756.7	12177.5
60°	9385.0	9620.5	9857.4	10101.3	10371.6	10731.1	11171.5	11685.6	12280.7	12861.7	13412.2
62.5°	10033.0	10342.3	10636.4	10951.3	11277.4	11699.6	12219.3	12893.8	13576.6	14302.6	14866.9
65°	10910.9	11345.6	11730.2	12138.5	12560.7	13125.1	13746.6	14553.4	15531.6	16275.7	17181.5
67.5°	11347.0	11919.8	12414.4	12868.7	13391.3	13961.2	14699.7	15654.3	16698.0	17776.5	18786.8
69°	10834.2	11425.1	11972.7	12481.3	13009.4	13562.7	14334.6	15314.2	16417.9	17584.2	18570.8
70°	10169.6	10760.4	11344.2	11923.9	12406.1	12945.3	13720.1	14730.4	15832.6	17044.9	18023.2
72.5°	7790.9	8501.6	9029.7	9573.1	10131.9	10589.0	11483.6	12335.0	13483.2	14713.7	15790.8
75°	4984.4	5638.0	6214.9	6677.5	7223.8	7771.4	8431.9	9378.1	10097.1	11107.4	11981.1
77.5°	2561.2	2754.9	3310.9	3476.7	3855.7	4153.9	4517.6	4754.5	5339.8	5463.8	5979.4
80°	1213.7	1093.9	1029.8	971.2	988.0	981.0	951.7	912.7	961.5	940.6	932.2
82.5°	1057.6	943.4	752.5	639.6	553.2	469.6	404.1	370.7	374.8	386.0	390.2
85°	741.3	696.7	543.5	412.5	321.9	249.4	200.7	192.3	197.9	213.2	207.6
87.5°	214.6	224.3	197.9	138.0	96.1	69.7	54.3	61.3	58.5	57.1	59.9
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3
2.5°	4148.4	4147.0	4142.8	4138.6	4138.6	4135.8	4138.6	4140.0	4138.6	4138.6	4135.8
5°	4195.7	4197.1	4201.3	4193.0	4191.6	4193.0	4187.4	4186.0	4181.8	4186.0	4180.4
7.5°	4286.3	4290.5	4290.5	4284.9	4283.5	4287.7	4279.3	4276.6	4272.4	4271.0	4269.6
10°	4421.5	4425.7	4418.7	4414.5	4410.3	4415.9	4408.9	4408.9	4404.8	4400.6	4399.2
12.5°	4572.0	4569.2	4566.4	4569.2	4565.0	4565.0	4560.8	4558.0	4556.7	4555.3	4552.5
15°	4689.0	4698.8	4698.8	4701.6	4698.8	4698.8	4693.2	4694.6	4691.8	4690.4	4691.8
17.5°	4764.3	4767.1	4774.0	4778.2	4778.2	4779.6	4776.8	4779.6	4776.8	4776.8	4782.4
20°	4774.0	4776.8	4783.8	4790.8	4794.9	4797.7	4797.7	4801.9	4804.7	4807.5	4814.4
22.5°	4735.0	4739.2	4747.6	4760.1	4767.1	4769.9	4775.4	4782.4	4789.4	4794.9	4804.7
25°	4694.6	4696.0	4704.4	4716.9	4725.3	4732.2	4742.0	4750.3	4760.1	4771.2	4782.4
27.5°	4672.3	4670.9	4677.9	4690.4	4697.4	4707.1	4715.5	4728.0	4739.2	4753.1	4762.9
30°	4691.8	4680.7	4682.1	4687.6	4693.2	4700.2	4709.9	4721.1	4733.6	4746.2	4757.3
32.5°	4778.2	4753.1	4736.4	4732.2	4733.6	4735.0	4740.6	4747.6	4757.3	4767.1	4771.2
35°	4964.9	4921.7	4899.4	4881.3	4866.0	4853.5	4856.2	4854.9	4854.9	4863.2	4853.5
37.5°	5320.3	5265.9	5242.2	5210.2	5192.1	5146.1	5133.5	5130.8	5112.6	5112.6	5091.7
40°	5877.7	5845.6	5827.5	5798.2	5710.4	5721.6	5658.9	5660.3	5608.7	5614.3	5578.1
42.5°	6670.5	6674.7	6652.4	6632.9	6564.6	6534.0	6475.5	6391.9	6326.4	6325.0	6252.5
45°	7587.5	7637.6	7566.5	7591.6	7531.7	7449.5	7381.2	7273.9	7172.2	7140.1	7066.3
47.5°	8546.2	8628.4	8574.0	8583.8	8554.5	8437.5	8345.5	8213.1	8080.7	7991.6	7947.0
50°	9570.4	9624.7	9623.3	9596.8	9582.9	9468.6	9320.9	9220.6	9123.1	9003.2	8964.2
52.5°	10498.4	10625.2	10710.2	10690.7	10650.3	10582.0	10451.0	10364.6	10221.1	10204.4	10221.1
55°	11492.0	11656.4	11742.8	11847.3	11848.7	11836.1	11781.8	11749.7	11616.0	11631.3	11611.8
57.5°	12432.5	12673.6	12806.0	13029.0	13105.6	13207.3	13169.7	13211.5	13130.7	13183.6	13168.3
60°	13707.6	14042.0	14262.2	14567.3	14709.5	14964.5	15014.7	15045.3	15089.9	15198.6	15137.3
62.5°	15311.5	15802.0	16259.0	16674.3	16810.8	17194.0	17256.7	17496.4	17509.0	17582.8	17447.7
65°	17936.8	18534.6	19037.6	19535.1	19822.1	20270.8	20452.0	20917.4	20775.3	20835.2	20546.7
67.5°	19656.3	20351.6	21026.1	21497.1	21973.6	22432.1	22762.4	23063.3	23060.6	23002.0	22745.6
69°	19504.4	20279.2	20943.9	21575.1	22076.8	22547.8	22944.9	23140.0	23208.3	23123.3	22940.7
70°	18979.1	19774.7	20588.5	21108.3	21654.5	22171.5	22581.2	22794.4	22841.8	22781.9	22624.4
72.5°	16551.6	17315.3	18212.7	18685.1	19345.6	19719.0	20283.4	20559.3	20608.0	20531.4	20428.3
75°	12917.5	13055.4	13969.5	14270.5	14749.9	15180.5	15531.6	15442.4	15691.9	15643.1	15604.1
77.5°	6085.3	5717.4	6309.6	6585.5	6440.6	6054.6	6616.2	6210.7	6479.6	6829.4	6740.2
80°	1003.3	1000.5	1027.0	1085.5	1015.8	1078.5	1077.2	1046.5	1049.3	1124.5	1085.5
82.5°	386.0	394.4	398.5	409.7	409.7	411.1	418.0	426.4	419.4	433.4	430.6
85°	209.0	223.0	210.4	200.7	207.6	211.8	217.4	224.3	217.4	238.3	227.1
87.5°	54.3	57.1	50.2	50.2	48.8	44.6	44.6	47.4	51.6	61.3	66.9
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-F10-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3
2.5°	4130.2	4131.6	4133.0	4128.9	4126.1	4126.1	4124.7	4121.9	4120.5	4120.5	4120.5
5°	4177.6	4180.4	4173.4	4172.1	4169.3	4166.5	4166.5	4163.7	4165.1	4165.1	4158.1
7.5°	4272.4	4268.2	4259.8	4254.3	4259.8	4250.1	4245.9	4248.7	4245.9	4247.3	4244.5
10°	4399.2	4399.2	4389.4	4395.0	4388.0	4376.9	4381.1	4376.9	4374.1	4364.4	4369.9
12.5°	4556.7	4552.5	4546.9	4534.4	4530.2	4528.8	4516.2	4517.6	4513.5	4510.7	4506.5
15°	4694.6	4693.2	4680.7	4673.7	4672.3	4666.7	4661.2	4658.4	4651.4	4650.0	4647.2
17.5°	4786.6	4782.4	4776.8	4769.9	4769.9	4761.5	4758.7	4751.7	4750.3	4746.2	4742.0
20°	4817.2	4818.6	4813.0	4807.5	4804.7	4799.1	4794.9	4789.4	4786.6	4781.0	4776.8
22.5°	4810.3	4810.3	4804.7	4803.3	4797.7	4789.4	4783.8	4776.8	4769.9	4762.9	4754.5
25°	4788.0	4786.6	4782.4	4775.4	4768.5	4755.9	4744.8	4733.6	4723.9	4715.5	4703.0
27.5°	4768.5	4765.7	4757.3	4747.6	4733.6	4719.7	4698.8	4683.5	4670.9	4659.8	4645.8
30°	4761.5	4751.7	4739.2	4723.9	4707.1	4686.2	4663.9	4644.4	4630.5	4619.4	4613.8
32.5°	4769.9	4757.3	4737.8	4718.3	4697.4	4672.3	4650.0	4633.3	4620.8	4618.0	4618.0
35°	4846.5	4825.6	4799.1	4771.2	4744.8	4723.9	4708.5	4707.1	4698.8	4708.5	4723.9
37.5°	5070.8	5052.7	5012.3	4976.1	4958.0	4948.2	4934.3	4937.1	4917.6	4948.2	4973.3
40°	5547.4	5525.1	5477.7	5448.5	5412.2	5377.4	5405.3	5396.9	5410.8	5405.3	5431.8
42.5°	6242.8	6220.5	6145.2	6134.1	6118.7	6104.8	6104.8	6093.6	6088.1	6107.6	6085.3
45°	7088.6	7044.0	7016.1	7049.6	7003.6	7017.5	7066.3	7000.8	7016.1	6925.6	6841.9
47.5°	7966.5	7962.3	7955.3	7995.7	8002.7	8023.6	8050.1	7983.2	7862.0	7793.7	7623.7
50°	8976.7	9019.9	9036.7	9075.7	9092.4	9107.7	9065.9	8967.0	8762.1	8581.0	8380.3
52.5°	10204.4	10129.1	10232.3	10269.9	10253.2	10191.8	10041.4	9920.1	9637.2	9376.7	9065.9
55°	11634.1	11652.2	11579.7	11550.5	11493.3	11323.3	11115.7	10842.6	10484.5	10144.5	9751.5
57.5°	13090.3	13083.3	12970.4	12811.6	12617.9	12413.0	12103.7	11712.1	11294.1	10837.0	10361.9
60°	14861.4	14854.4	14625.9	14354.1	14078.2	13748.0	13263.1	12792.1	12231.9	11631.3	11065.6
62.5°	17188.5	16888.9	16664.5	16259.0	15832.6	15400.6	14744.3	14118.6	13370.4	12612.3	11951.8
65°	20170.5	19677.2	19422.2	18834.2	18173.7	17499.2	16831.7	16009.6	15002.1	14085.2	13278.4
67.5°	22376.4	21924.9	21458.1	20871.4	20146.8	19394.3	18480.2	17444.9	16300.8	15272.4	14393.2
69°	22570.1	22147.8	21587.7	20999.6	20314.0	19496.1	18498.3	17339.0	16179.6	15138.7	14273.3
70°	22276.0	21827.3	21237.9	20626.2	19859.8	19087.8	18042.7	16834.5	15673.8	14630.1	13785.6
72.5°	20082.7	19645.2	19018.1	18286.5	17500.6	16840.1	15847.9	14588.2	13325.8	12361.5	11703.8
75°	15271.0	15174.9	14730.4	14304.0	13685.3	12948.1	12041.0	11193.8	10158.4	9138.4	8525.3
77.5°	6515.9	6737.4	6968.7	7002.2	7024.5	6797.4	6656.6	6443.4	5750.9	5435.9	5111.3
80°	1204.0	1075.8	1148.2	1156.6	1204.0	1229.0	1321.0	1566.3	1594.1	1654.1	1727.9
82.5°	427.8	434.8	445.9	450.1	454.3	471.0	533.7	639.6	735.8	861.2	1028.4
85°	242.5	246.6	256.4	264.8	270.3	287.1	321.9	384.6	479.4	622.9	844.4
87.5°	73.9	83.6	89.2	100.3	104.5	107.3	122.6	164.4	211.8	313.5	457.1
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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CATALOG NUMBER: VST-F10-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3	4123.3
2.5°	4120.5	4119.1	4116.3	4113.5	4114.9	4112.1	4103.8	4101.0	4091.2	4084.3	4078.7
5°	4158.1	4156.7	4151.2	4152.5	4151.2	4137.2	4127.5	4110.7	4101.0	4085.7	4080.1
7.5°	4236.2	4234.8	4225.0	4229.2	4226.4	4205.5	4188.8	4162.3	4148.4	4128.9	4113.5
10°	4353.2	4353.2	4342.1	4343.4	4343.4	4315.6	4286.3	4241.7	4209.7	4179.0	4152.5
12.5°	4495.3	4489.8	4488.4	4481.4	4475.8	4445.2	4400.6	4340.7	4280.7	4230.6	4194.3
15°	4638.9	4630.5	4626.3	4618.0	4611.0	4583.1	4523.2	4449.4	4368.5	4287.7	4227.8
17.5°	4732.2	4726.7	4718.3	4715.5	4705.8	4677.9	4636.1	4562.2	4461.9	4349.0	4258.4
20°	4767.1	4757.3	4751.7	4746.2	4740.6	4721.1	4721.1	4673.7	4562.2	4403.4	4265.4
22.5°	4744.8	4739.2	4730.8	4726.7	4721.1	4723.9	4778.2	4771.2	4643.0	4415.9	4215.3
25°	4693.2	4686.2	4679.3	4679.3	4677.9	4707.1	4838.1	4856.2	4666.7	4354.6	4105.2
27.5°	4640.3	4630.5	4633.3	4634.7	4641.7	4704.4	4903.6	4878.5	4602.6	4206.9	3915.7
30°	4608.2	4608.2	4615.2	4626.3	4640.3	4750.3	4955.2	4828.4	4436.8	3983.9	3664.8
32.5°	4622.1	4636.1	4651.4	4679.3	4700.2	4852.1	4973.3	4698.8	4195.7	3708.0	3402.9
35°	4746.2	4762.9	4792.1	4835.3	4860.4	4998.4	4973.3	4509.3	3915.7	3471.1	3132.5
37.5°	5016.5	5033.2	5068.1	5101.5	5126.6	5182.3	4952.4	4268.2	3681.6	3225.9	2890.1
40°	5451.3	5474.9	5500.0	5494.5	5477.7	5423.4	4910.6	4043.9	3465.6	3011.3	2651.8
42.5°	6063.0	6040.7	6037.9	5983.6	5927.8	5695.1	4879.9	3897.5	3280.2	2785.5	2414.9
45°	6769.5	6678.9	6585.5	6513.1	6428.1	5993.3	4871.6	3779.1	3075.4	2534.7	2157.1
47.5°	7480.2	7335.2	7154.1	7041.2	6903.3	6311.0	4896.7	3620.2	2812.0	2261.6	1916.0
50°	8176.9	7940.0	7715.6	7580.5	7424.4	6676.1	4937.1	3352.7	2497.1	2013.6	1695.9
52.5°	8822.1	8516.9	8287.0	8128.1	7937.2	7101.1	4900.8	3001.5	2224.0	1775.3	1486.8
55°	9435.2	9098.0	8859.7	8692.5	8468.1	7527.5	4638.9	2682.4	1963.4	1542.6	1251.3
57.5°	9971.7	9648.4	9400.4	9173.2	8983.7	7898.2	4121.9	2419.1	1712.6	1276.4	996.3
60°	10598.7	10235.0	9941.0	9698.6	9475.6	8089.1	3542.2	2185.0	1445.0	988.0	720.4
62.5°	11444.6	11026.5	10686.5	10409.2	10118.0	8130.9	3146.5	1950.9	1146.8	714.9	523.9
65°	12698.7	12183.1	11758.1	11376.3	10981.9	7958.1	2951.4	1695.9	852.8	530.9	438.9
67.5°	13695.0	13159.9	12668.0	12177.5	11673.1	7637.6	2908.2	1460.4	654.9	451.5	394.4
69°	13573.8	13063.8	12612.3	12081.4	11522.6	7234.9	2865.0	1369.8	597.8	419.4	373.5
70°	13107.0	12623.5	12165.0	11733.0	11048.8	6786.2	2750.7	1319.6	575.5	404.1	358.1
72.5°	11075.3	10515.1	10070.6	9532.7	8812.3	5043.0	2086.0	1067.4	528.1	369.3	323.3
75°	8078.0	7613.9	7170.8	6575.8	5874.9	2917.9	1298.7	610.3	387.4	334.4	292.6
77.5°	4716.9	4612.4	4184.6	3793.0	3099.1	1485.4	745.5	365.1	301.0	303.8	257.8
80°	1775.3	1890.9	1934.1	1799.0	1662.4	1025.6	542.1	296.8	262.0	299.6	218.8
82.5°	1294.5	1502.2	1527.2	1463.1	1361.4	955.9	433.4	238.3	213.2	321.9	188.1
85°	1079.9	1195.6	1213.7	1146.8	1113.4	809.6	302.4	167.2	156.1	231.3	140.7
87.5°	546.2	575.5	590.8	535.1	537.9	377.6	121.2	71.1	85.0	98.9	78.0
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-8030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	4123.3	4123.3
2.5°	4066.1	4074.5
5°	4071.7	4071.7
7.5°	4103.8	4103.8
10°	4138.6	4140.0
12.5°	4170.7	4169.3
15°	4195.7	4191.6
17.5°	4211.1	4206.9
20°	4195.7	4188.8
22.5°	4117.7	4098.2
25°	3975.6	3950.5
27.5°	3787.5	3770.7
30°	3542.2	3517.1
32.5°	3255.1	3242.6
35°	2980.6	2965.3
37.5°	2729.8	2725.6
40°	2518.0	2495.7
42.5°	2270.0	2260.2
45°	2017.7	2012.2
47.5°	1780.9	1775.3
50°	1562.1	1550.9
52.5°	1347.5	1329.4
55°	1109.2	1096.7
57.5°	851.4	840.3
60°	599.2	586.7
62.5°	426.4	412.5
65°	355.3	344.2
67.5°	321.9	309.4
69°	306.6	295.4
70°	296.8	288.4
72.5°	275.9	270.3
75°	252.2	248.0
77.5°	221.6	214.6
80°	185.3	178.4
82.5°	156.1	149.1
85°	104.5	94.8
87.5°	47.4	41.8
90°	0.0	0.0

(END OF REPORT)