

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: P158038

Luminaire Tested: **VST-E08-LED-E-U-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158038
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-E08-LED-E-U-RW-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(8) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (168) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 21035.1 lumens
Efficiency: N/A
Efficacy: 108.1 lumens/watt
Luminous Opening: Rectangular (W 1.33' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 194.5
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

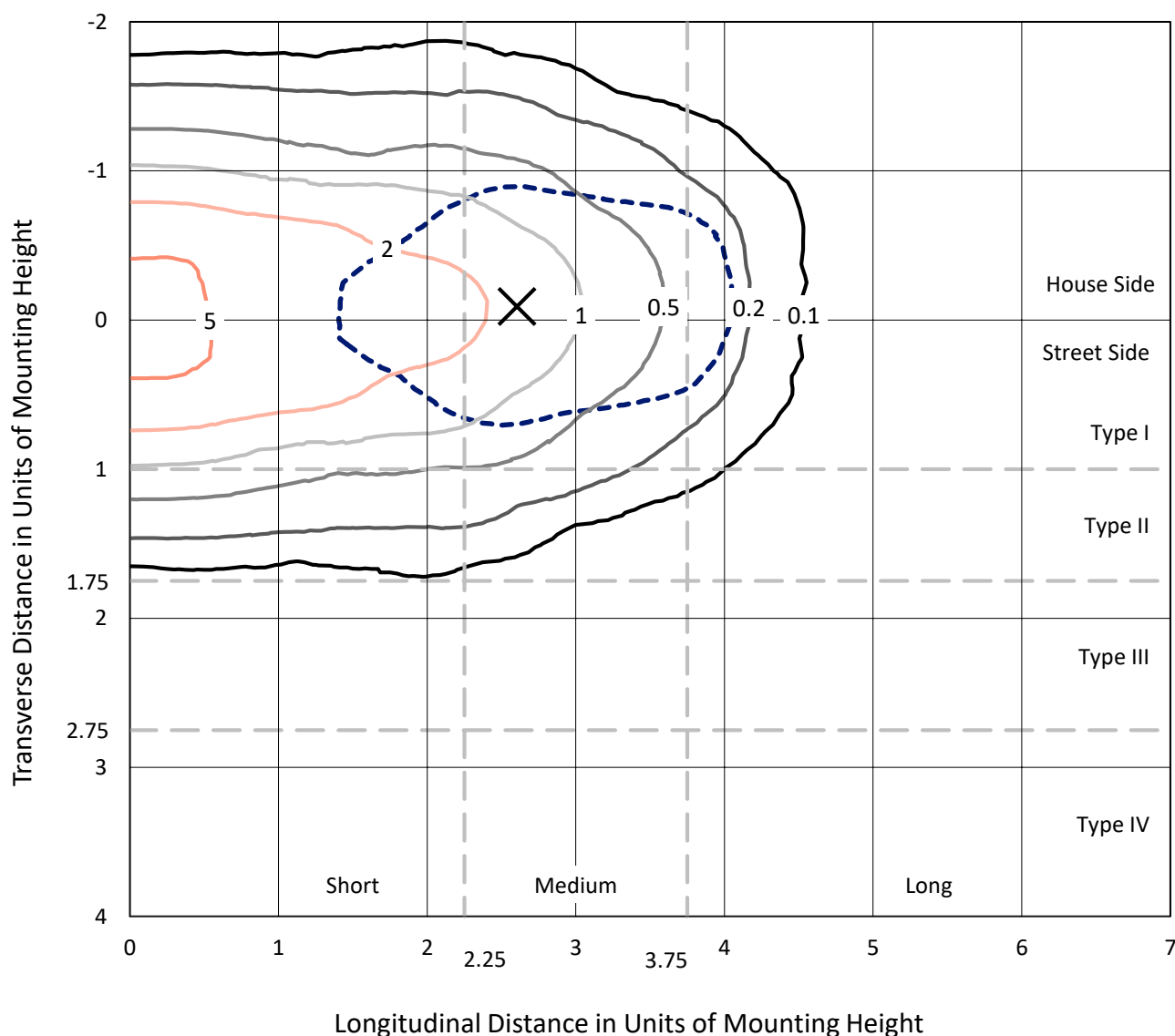


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

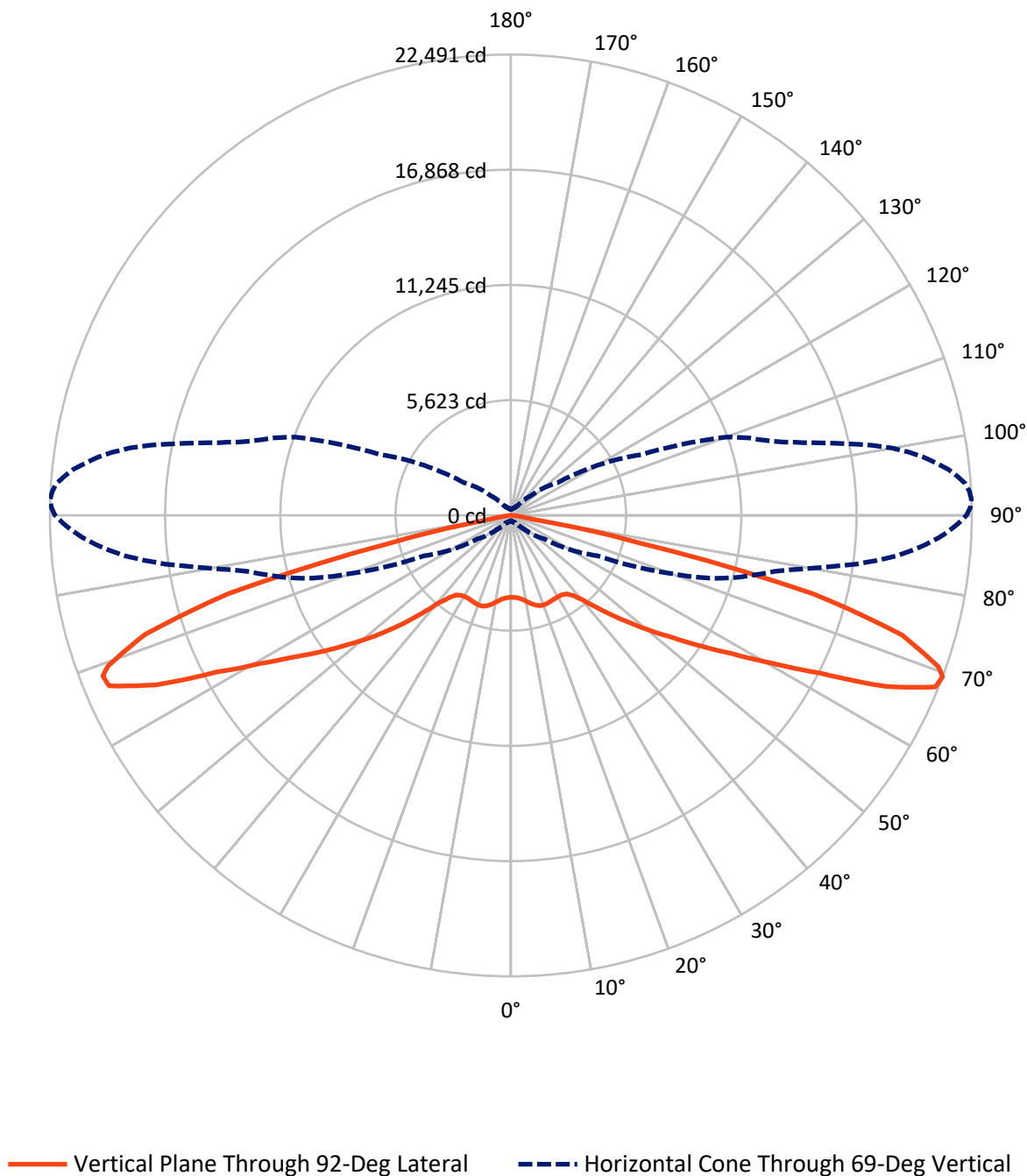


Based on 25 foot mounting height. Maximum calculated value = 6.6 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	11156.0	0.0	11156.0
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	9879.1	0.0	9879.1
	% Fixture	47.0	0.0	47.0
Total	Lumens	21035.1	0.0	21035.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	391.0	1.9
10°-20°	1235.1	5.9
20°-30°	2003.9	9.5
30°-40°	2497.4	11.9
40°-50°	3109.5	14.8
50°-60°	3834.8	18.2
60°-70°	4762.6	22.6
70°-80°	2926.4	13.9
80°-90°	274.3	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°	21035.1	100.0
0°-180°	21035.1	100.0

Coefficient of Utilization



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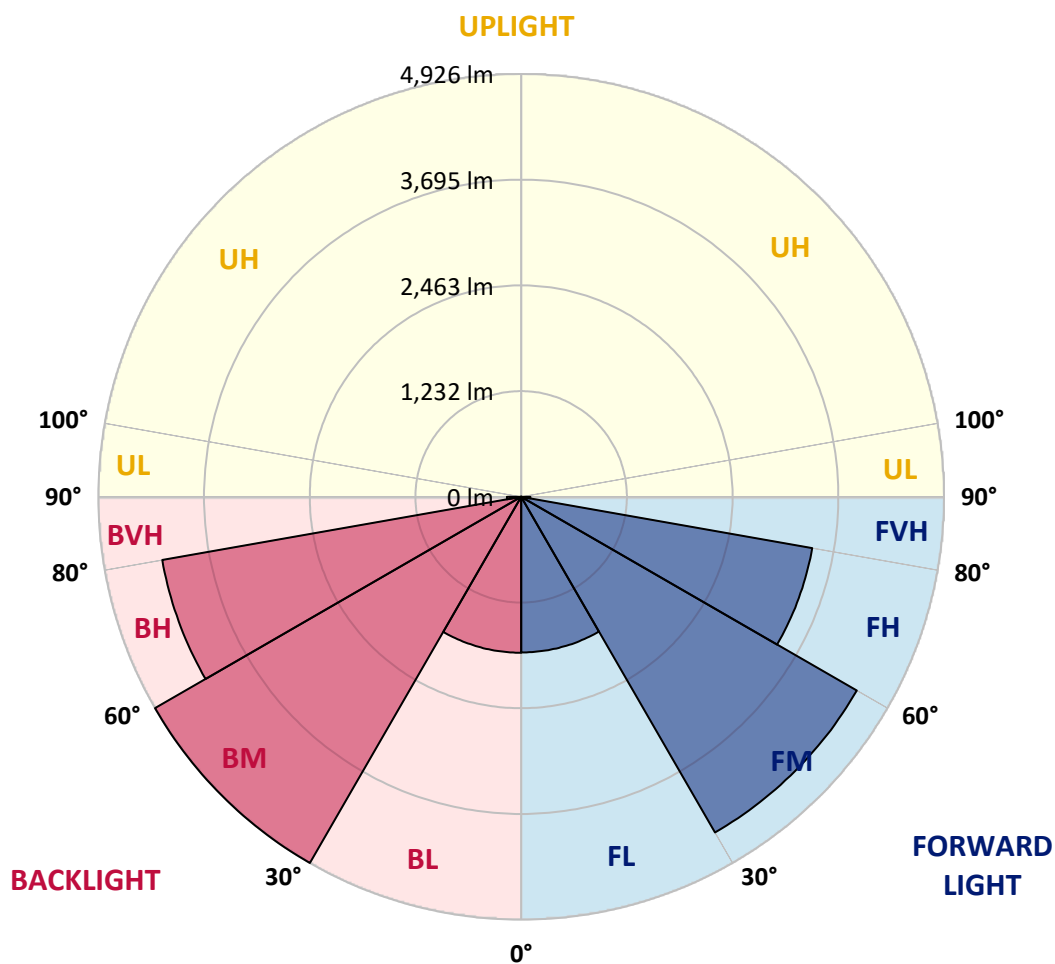
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1813.1	8.6			
FM	(30°-60°)	4515.4	21.5			
FH	(60°-80°)	3443.2	16.4			G2/5000
FVH	(80°-90°)	107.4	0.5			G2/225
BL	(0°-30°)	1816.9	8.6	B3/2500		
BM	(30°-60°)	4926.4	23.4	B3/5000		
BH	(60°-80°)	4245.8	20.2	B4/5000		G4/5000
BVH	(80°-90°)	166.9	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°	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8
2.5°	4059.3	4048.5	4057.9	4059.3	4057.9	4057.9	4045.8	4043.1	4026.8	4030.9	4029.6
5°	4114.6	4110.6	4117.3	4120.0	4122.7	4117.3	4107.9	4103.8	4093.0	4089.0	4087.6
7.5°	4165.9	4159.2	4170.0	4179.4	4186.2	4187.5	4188.9	4182.1	4182.1	4176.7	4176.7
10°	4209.2	4203.8	4221.3	4233.5	4255.1	4267.2	4280.7	4290.2	4295.6	4296.9	4295.6
12.5°	4228.1	4224.0	4252.4	4288.8	4329.3	4357.7	4391.5	4415.8	4422.5	4421.2	4427.9
15°	4195.6	4198.3	4241.6	4313.1	4399.6	4471.1	4518.4	4538.6	4544.0	4546.7	4548.1
17.5°	4107.9	4113.3	4175.4	4291.5	4442.8	4572.4	4642.6	4642.6	4631.8	4631.8	4630.5
20°	3967.4	3972.8	4053.9	4221.3	4444.1	4642.6	4742.6	4722.3	4681.8	4673.7	4665.6
22.5°	3773.0	3794.6	3883.7	4078.2	4386.1	4662.9	4804.7	4775.0	4711.5	4693.9	4681.8
25°	3552.9	3550.2	3656.8	3875.6	4245.6	4614.3	4822.2	4816.8	4749.3	4730.4	4708.8
27.5°	3301.7	3309.8	3408.4	3629.8	4030.9	4473.8	4792.5	4864.1	4808.7	4789.8	4769.6
30°	3043.8	3051.9	3145.0	3403.0	3786.5	4272.6	4731.8	4910.0	4888.4	4873.5	4860.0
32.5°	2784.5	2787.2	2897.9	3174.8	3579.9	4032.3	4639.9	4951.9	4981.6	4974.8	4969.4
35°	2541.4	2544.1	2664.3	2945.2	3376.0	3827.0	4529.2	5012.6	5108.5	5116.6	5122.0
37.5°	2305.1	2309.2	2432.0	2726.4	3174.8	3671.7	4406.3	5105.8	5286.8	5316.5	5321.9
40°	2070.1	2074.2	2191.7	2503.6	2970.8	3535.3	4311.8	5236.8	5527.1	5567.6	5609.5
42.5°	1846.0	1860.8	1960.8	2259.2	2744.0	3366.5	4271.3	5396.1	5812.1	5875.5	5922.8
45°	1636.7	1638.0	1751.4	2031.0	2475.3	3138.3	4244.3	5577.1	6130.8	6226.6	6291.4
47.5°	1412.5	1428.7	1547.5	1819.0	2224.1	2856.1	4157.8	5789.1	6477.8	6589.9	6720.9
50°	1195.1	1218.0	1332.8	1601.6	1994.5	2564.4	3925.6	6037.6	6868.1	7013.9	7165.1
52.5°	985.8	984.4	1106.0	1385.5	1763.6	2317.3	3548.8	6298.2	7319.1	7475.7	7639.1
55°	745.4	745.4	865.6	1120.8	1513.8	2097.1	3145.0	6460.2	7737.7	7926.8	8105.0
57.5°	511.8	525.3	638.7	858.8	1253.2	1895.9	2835.8	6367.1	8057.8	8292.7	8504.7
60°	379.5	393.0	476.7	617.1	980.4	1658.3	2603.5	5928.2	8250.9	8562.8	8838.3
62.5°	328.1	337.6	417.3	494.2	706.3	1405.8	2398.3	5370.5	8529.0	8955.8	9339.3
65°	293.0	302.5	382.2	426.7	552.3	1130.3	2283.5	5051.8	8861.2	9513.5	10069.8
67.5°	271.4	282.2	349.7	382.2	482.1	1022.2	2194.4	4977.5	8858.5	9649.9	10360.2
69°	260.6	268.7	324.1	359.2	465.9	989.8	2001.3	4654.8	8273.8	9123.2	9836.2
70°	253.9	262.0	309.2	344.3	460.5	931.8	1823.0	4228.1	7608.1	8462.9	9186.7
72.5°	232.3	240.4	275.5	307.9	383.5	622.5	1270.7	2706.2	5436.7	6047.0	6874.8
75°	205.3	214.7	241.7	268.7	290.3	360.6	733.3	1404.4	3108.6	3571.8	4309.1
77.5°	167.4	176.9	205.3	248.5	245.8	274.1	476.7	862.9	1455.7	1805.5	2078.2
80°	137.7	144.5	168.8	251.2	201.2	229.6	386.2	707.6	1024.9	1133.0	1197.8
82.5°	91.8	101.3	131.0	197.2	153.9	163.4	289.0	661.7	866.9	950.7	1029.0
85°	43.2	47.3	79.7	105.3	93.2	87.8	164.7	467.2	645.5	684.6	714.4
87.5°	0.0	0.0	4.1	8.1	12.2	12.2	29.7	98.6	181.0	218.8	216.1
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):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8
2.5°	4024.1	4025.5	4024.1	4024.1	4022.8	4020.1	4020.1	4017.4	4018.7	4017.4	4020.1
5°	4086.3	4086.3	4082.2	4079.5	4083.6	4079.5	4080.9	4074.1	4074.1	4070.1	4064.7
7.5°	4175.4	4175.4	4176.7	4168.6	4174.0	4175.4	4171.3	4168.6	4165.9	4159.2	4160.5
10°	4294.2	4294.2	4298.3	4287.5	4292.9	4295.6	4296.9	4296.9	4294.2	4282.1	4283.4
12.5°	4426.6	4423.9	4425.2	4419.8	4425.2	4427.9	4430.6	4427.9	4427.9	4425.2	4423.9
15°	4546.7	4545.4	4548.1	4544.0	4545.4	4548.1	4556.2	4554.9	4553.5	4545.4	4545.4
17.5°	4629.1	4625.1	4622.4	4621.0	4621.0	4619.7	4621.0	4621.0	4617.0	4615.6	4615.6
20°	4660.2	4649.4	4642.6	4638.6	4633.2	4630.5	4627.8	4629.1	4626.4	4622.4	4623.7
22.5°	4665.6	4650.7	4637.2	4625.1	4614.3	4607.5	4600.8	4598.1	4591.3	4587.3	4587.3
25°	4691.2	4668.3	4646.7	4626.4	4610.2	4595.4	4580.5	4569.7	4561.6	4552.1	4549.4
27.5°	4748.0	4723.6	4698.0	4672.3	4650.7	4621.0	4600.8	4579.2	4560.3	4545.4	4534.6
30°	4835.7	4811.4	4785.8	4756.1	4727.7	4696.6	4662.9	4637.2	4610.2	4580.5	4564.3
32.5°	4951.9	4935.7	4910.0	4881.6	4856.0	4823.6	4783.1	4743.9	4718.2	4683.1	4657.5
35°	5118.0	5099.1	5091.0	5078.8	5053.1	5032.9	4988.3	4951.9	4927.6	4878.9	4860.0
37.5°	5344.8	5343.5	5350.2	5346.2	5350.2	5324.6	5304.3	5303.0	5267.9	5220.6	5174.7
40°	5654.1	5670.3	5706.7	5732.4	5756.7	5759.4	5787.8	5758.0	5762.1	5755.3	5708.1
42.5°	6006.5	6061.9	6105.1	6180.7	6238.8	6292.8	6329.3	6379.2	6417.0	6450.8	6458.9
45°	6399.5	6481.9	6581.8	6649.3	6762.7	6853.2	6977.4	7073.3	7173.2	7271.8	7306.9
47.5°	6826.2	6928.8	7039.6	7165.1	7308.3	7450.1	7641.8	7789.0	7949.7	8083.4	8202.2
50°	7297.5	7404.2	7552.7	7697.2	7894.4	8057.8	8308.9	8502.0	8761.3	8939.6	9093.5
52.5°	7789.0	7922.7	8088.8	8248.2	8449.4	8658.7	8938.2	9223.1	9535.1	9805.1	10029.3
55°	8269.8	8434.5	8593.9	8780.2	9003.0	9246.1	9562.1	9937.5	10326.4	10635.6	10932.7
57.5°	8697.8	8888.2	9075.9	9265.0	9493.2	9775.4	10130.6	10535.7	10981.3	11393.2	11801.0
60°	9094.8	9323.1	9552.6	9788.9	10050.9	10399.3	10826.0	11324.3	11900.9	12464.1	12997.5
62.5°	9722.8	10022.6	10307.5	10612.7	10928.7	11337.8	11841.5	12495.1	13156.8	13860.4	14407.3
65°	10573.5	10994.8	11367.5	11763.2	12172.4	12719.3	13321.6	14103.4	15051.4	15772.5	16650.3
67.5°	10996.2	11551.2	12030.6	12470.8	12977.2	13529.5	14245.2	15170.2	16181.7	17226.9	18205.9
69°	10499.2	11071.8	11602.5	12095.4	12607.2	13143.3	13891.4	14840.7	15910.2	17040.5	17996.6
70°	9855.1	10427.7	10993.5	11555.2	12022.5	12545.1	13295.9	14274.9	15343.1	16517.9	17465.9
72.5°	7550.0	8238.7	8750.5	9277.1	9818.7	10261.6	11128.5	11953.6	13066.3	14258.7	15302.6
75°	4830.3	5463.7	6022.7	6471.0	7000.4	7531.1	8171.2	9088.1	9784.9	10763.9	11610.6
77.5°	2482.0	2669.7	3208.5	3369.2	3736.5	4025.5	4377.9	4607.5	5174.7	5294.9	5794.5
80°	1176.2	1060.1	997.9	941.2	957.4	950.7	922.3	884.5	931.8	911.5	903.4
82.5°	1024.9	914.2	729.2	619.8	536.1	455.1	391.6	359.2	363.3	374.1	378.1
85°	718.4	675.2	526.7	399.7	311.9	241.7	194.5	186.4	191.8	206.6	201.2
87.5°	208.0	217.4	191.8	133.7	93.2	67.5	52.7	59.4	56.7	55.4	58.1
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8
2.5°	4020.1	4018.7	4014.7	4010.6	4010.6	4007.9	4010.6	4012.0	4010.6	4010.6	4007.9
5°	4066.0	4067.4	4071.4	4063.3	4062.0	4063.3	4057.9	4056.6	4052.5	4056.6	4051.2
7.5°	4153.8	4157.8	4157.8	4152.4	4151.1	4155.1	4147.0	4144.3	4140.3	4138.9	4137.6
10°	4284.8	4288.8	4282.1	4278.0	4274.0	4279.4	4272.6	4272.6	4268.6	4264.5	4263.2
12.5°	4430.6	4427.9	4425.2	4427.9	4423.9	4423.9	4419.8	4417.1	4415.8	4414.4	4411.7
15°	4544.0	4553.5	4553.5	4556.2	4553.5	4553.5	4548.1	4549.4	4546.7	4545.4	4546.7
17.5°	4617.0	4619.7	4626.4	4630.5	4630.5	4631.8	4629.1	4631.8	4629.1	4629.1	4634.5
20°	4626.4	4629.1	4635.9	4642.6	4646.7	4649.4	4649.4	4653.4	4656.1	4658.8	4665.6
22.5°	4588.6	4592.7	4600.8	4612.9	4619.7	4622.4	4627.8	4634.5	4641.3	4646.7	4656.1
25°	4549.4	4550.8	4558.9	4571.1	4579.2	4585.9	4595.4	4603.5	4612.9	4623.7	4634.5
27.5°	4527.8	4526.5	4533.2	4545.4	4552.1	4561.6	4569.7	4581.9	4592.7	4606.2	4615.6
30°	4546.7	4535.9	4537.3	4542.7	4548.1	4554.9	4564.3	4575.1	4587.3	4599.4	4610.2
32.5°	4630.5	4606.2	4590.0	4585.9	4587.3	4588.6	4594.0	4600.8	4610.2	4619.7	4623.7
35°	4811.4	4769.6	4748.0	4730.4	4715.5	4703.4	4706.1	4704.7	4704.7	4712.8	4703.4
37.5°	5155.8	5103.1	5080.2	5049.1	5031.5	4987.0	4974.8	4972.1	4954.6	4954.6	4934.3
40°	5695.9	5664.9	5647.3	5619.0	5533.9	5544.7	5483.9	5485.3	5435.3	5440.7	5405.6
42.5°	6464.3	6468.3	6446.7	6427.8	6361.7	6332.0	6275.2	6194.2	6130.8	6129.4	6059.2
45°	7352.8	7401.5	7332.6	7356.9	7298.8	7219.2	7153.0	7049.0	6950.4	6919.4	6847.8
47.5°	8281.9	8361.6	8308.9	8318.4	8290.0	8176.6	8087.5	7959.2	7830.9	7744.5	7701.2
50°	9274.4	9327.1	9325.8	9300.1	9286.6	9175.9	9032.7	8935.5	8841.0	8724.8	8687.0
52.5°	10173.8	10296.7	10379.1	10360.2	10321.0	10254.8	10127.9	10044.2	9905.1	9888.9	9905.1
55°	11136.6	11296.0	11379.7	11481.0	11482.3	11470.2	11417.5	11386.5	11256.8	11271.7	11252.8
57.5°	12048.1	12281.8	12410.0	12626.1	12700.4	12799.0	12762.5	12803.0	12724.7	12776.0	12761.1
60°	13283.7	13607.8	13821.2	14116.9	14254.7	14501.8	14550.4	14580.1	14623.3	14728.7	14669.2
62.5°	14838.0	15313.4	15756.3	16158.7	16291.1	16662.4	16723.2	16955.4	16967.6	17039.2	16908.2
65°	17382.2	17961.5	18449.0	18931.1	19209.2	19644.1	19819.6	20270.6	20132.9	20191.0	19911.4
67.5°	19048.5	19722.4	20376.0	20832.4	21294.2	21738.5	22058.5	22350.2	22347.5	22290.8	22042.3
69°	18901.3	19652.2	20296.3	20908.0	21394.2	21850.6	22235.4	22424.5	22490.7	22408.3	22231.4
70°	18392.3	19163.3	19951.9	20455.6	20985.0	21486.0	21883.0	22089.6	22135.5	22077.5	21924.9
72.5°	16039.9	16779.9	17649.5	18107.3	18747.4	19109.3	19656.2	19923.6	19970.9	19896.6	19796.7
75°	12518.1	12651.8	13537.6	13829.3	14293.8	14711.1	15051.4	14965.0	15206.7	15159.4	15121.6
77.5°	5897.1	5540.6	6114.5	6381.9	6241.5	5867.4	6411.6	6018.7	6279.3	6618.2	6531.8
80°	972.3	969.6	995.2	1052.0	984.4	1045.2	1043.8	1014.1	1016.8	1089.8	1052.0
82.5°	374.1	382.2	386.2	397.0	397.0	398.4	405.1	413.2	406.5	420.0	417.3
85°	202.6	216.1	203.9	194.5	201.2	205.3	210.7	217.4	210.7	230.9	220.1
87.5°	52.7	55.4	48.6	48.6	47.3	43.2	43.2	45.9	50.0	59.4	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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CATALOG NUMBER: VST-E08-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8
2.5°	4002.5	4003.9	4005.2	4001.2	3998.5	3998.5	3997.1	3994.4	3993.1	3993.1	3993.1
5°	4048.5	4051.2	4044.4	4043.1	4040.4	4037.7	4037.7	4035.0	4036.3	4036.3	4029.6
7.5°	4140.3	4136.2	4128.1	4122.7	4128.1	4118.7	4114.6	4117.3	4114.6	4116.0	4113.3
10°	4263.2	4263.2	4253.7	4259.1	4252.4	4241.6	4245.6	4241.6	4238.9	4229.4	4234.8
12.5°	4415.8	4411.7	4406.3	4394.2	4390.1	4388.8	4376.6	4377.9	4373.9	4371.2	4367.1
15°	4549.4	4548.1	4535.9	4529.2	4527.8	4522.4	4517.0	4514.3	4507.6	4506.2	4503.5
17.5°	4638.6	4634.5	4629.1	4622.4	4622.4	4614.3	4611.6	4604.8	4603.5	4599.4	4595.4
20°	4668.3	4669.6	4664.2	4658.8	4656.1	4650.7	4646.7	4641.3	4638.6	4633.2	4629.1
22.5°	4661.5	4661.5	4656.1	4654.8	4649.4	4641.3	4635.9	4629.1	4622.4	4615.6	4607.5
25°	4639.9	4638.6	4634.5	4627.8	4621.0	4608.9	4598.1	4587.3	4577.8	4569.7	4557.6
27.5°	4621.0	4618.3	4610.2	4600.8	4587.3	4573.8	4553.5	4538.6	4526.5	4515.7	4502.2
30°	4614.3	4604.8	4592.7	4577.8	4561.6	4541.3	4519.7	4500.8	4487.3	4476.5	4471.1
32.5°	4622.4	4610.2	4591.3	4572.4	4552.1	4527.8	4506.2	4490.0	4477.9	4475.2	4475.2
35°	4696.6	4676.4	4650.7	4623.7	4598.1	4577.8	4563.0	4561.6	4553.5	4563.0	4577.8
37.5°	4914.1	4896.5	4857.3	4822.2	4804.7	4795.2	4781.7	4784.4	4765.5	4795.2	4819.5
40°	5375.9	5354.3	5308.4	5280.0	5244.9	5211.1	5238.1	5230.0	5243.5	5238.1	5263.8
42.5°	6049.7	6028.1	5955.2	5944.4	5929.5	5916.0	5916.0	5905.2	5899.8	5918.7	5897.1
45°	6869.4	6826.2	6799.2	6831.6	6787.0	6800.5	6847.8	6784.3	6799.2	6711.4	6630.4
47.5°	7720.2	7716.1	7709.4	7748.5	7755.3	7775.5	7801.2	7736.4	7618.9	7552.7	7388.0
50°	8699.2	8741.0	8757.2	8795.1	8811.3	8826.1	8785.6	8689.7	8491.2	8315.7	8121.2
52.5°	9888.9	9816.0	9915.9	9952.3	9936.1	9876.7	9730.9	9613.4	9339.3	9086.7	8785.6
55°	11274.4	11291.9	11221.7	11193.3	11138.0	10973.2	10772.0	10507.3	10160.3	9830.8	9450.0
57.5°	12685.5	12678.8	12569.4	12415.4	12227.7	12029.2	11729.4	11350.0	10944.9	10501.9	10041.5
60°	14401.9	14395.1	14173.6	13910.3	13642.9	13322.9	12853.0	12396.5	11853.7	11271.7	10723.4
62.5°	16657.0	16366.7	16149.3	15756.3	15343.1	14924.5	14288.4	13682.1	12956.9	12222.3	11582.3
65°	19546.8	19068.8	18821.7	18251.8	17611.7	16958.1	16311.3	15514.6	14538.3	13649.7	12867.8
67.5°	21684.5	21247.0	20794.6	20226.1	19523.9	18794.7	17908.8	16905.5	15796.8	14800.2	13948.1
69°	21872.2	21463.0	20920.2	20350.3	19685.9	18893.2	17926.4	16802.8	15679.3	14670.6	13832.0
70°	21587.3	21152.4	20581.2	19988.4	19245.7	18497.6	17484.8	16314.0	15189.1	14177.7	13359.4
72.5°	19461.8	19037.7	18430.1	17721.1	16959.5	16319.4	15357.9	14137.2	12913.7	11979.3	11341.9
75°	14798.9	14705.7	14274.9	13861.7	13262.1	12547.8	11668.7	10847.6	9844.3	8855.8	8261.7
77.5°	6314.4	6529.1	6753.3	6785.7	6807.3	6587.2	6450.8	6244.2	5573.0	5267.9	4953.2
80°	1166.7	1042.5	1112.7	1120.8	1166.7	1191.0	1280.2	1517.8	1544.8	1602.9	1674.5
82.5°	414.6	421.3	432.1	436.2	440.2	456.4	517.2	619.8	713.0	834.5	996.6
85°	235.0	239.0	248.5	256.6	262.0	278.2	311.9	372.7	464.5	603.6	818.3
87.5°	71.6	81.0	86.4	97.2	101.3	104.0	118.8	159.3	205.3	303.8	442.9
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-E08-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8	3995.8
2.5°	3993.1	3991.7	3989.0	3986.3	3987.7	3985.0	3976.9	3974.2	3964.7	3958.0	3952.6
5°	4029.6	4028.2	4022.8	4024.1	4022.8	4009.3	3999.8	3983.6	3974.2	3959.3	3953.9
7.5°	4105.2	4103.8	4094.4	4098.4	4095.7	4075.5	4059.3	4033.6	4020.1	4001.2	3986.3
10°	4218.6	4218.6	4207.8	4209.2	4209.2	4182.1	4153.8	4110.6	4079.5	4049.8	4024.1
12.5°	4356.3	4350.9	4349.6	4342.8	4337.4	4307.7	4264.5	4206.5	4148.4	4099.8	4064.7
15°	4495.4	4487.3	4483.3	4475.2	4468.4	4441.4	4383.4	4311.8	4233.5	4155.1	4097.1
17.5°	4585.9	4580.5	4572.4	4569.7	4560.3	4533.2	4492.7	4421.2	4323.9	4214.6	4126.8
20°	4619.7	4610.2	4604.8	4599.4	4594.0	4575.1	4575.1	4529.2	4421.2	4267.2	4133.5
22.5°	4598.1	4592.7	4584.6	4580.5	4575.1	4577.8	4630.5	4623.7	4499.5	4279.4	4084.9
25°	4548.1	4541.3	4534.6	4534.6	4533.2	4561.6	4688.5	4706.1	4522.4	4220.0	3978.2
27.5°	4496.8	4487.3	4490.0	4491.4	4498.1	4558.9	4752.0	4727.7	4460.3	4076.8	3794.6
30°	4465.7	4465.7	4472.5	4483.3	4496.8	4603.5	4802.0	4679.1	4299.6	3860.8	3551.5
32.5°	4479.2	4492.7	4507.6	4534.6	4554.9	4702.0	4819.5	4553.5	4066.0	3593.4	3297.6
35°	4599.4	4615.6	4644.0	4685.8	4710.1	4843.8	4819.5	4369.8	3794.6	3363.8	3035.7
37.5°	4861.4	4877.6	4911.4	4943.8	4968.1	5022.1	4799.3	4136.2	3567.7	3126.1	2800.7
40°	5282.7	5305.7	5330.0	5324.6	5308.4	5255.7	4758.8	3918.8	3358.4	2918.2	2569.8
42.5°	5875.5	5853.9	5851.2	5798.6	5744.5	5519.0	4729.0	3777.0	3178.8	2699.4	2340.2
45°	6560.2	6472.4	6381.9	6311.7	6229.3	5808.0	4720.9	3662.2	2980.3	2456.4	2090.4
47.5°	7248.9	7108.4	6932.9	6823.5	6689.8	6115.9	4745.3	3508.3	2725.1	2191.7	1856.8
50°	7924.1	7694.5	7477.1	7346.1	7194.9	6469.7	4784.4	3249.0	2419.9	1951.3	1643.4
52.5°	8549.3	8253.6	8030.7	7876.8	7691.8	6881.6	4749.3	2908.7	2155.2	1720.4	1440.9
55°	9143.5	8816.7	8585.8	8423.7	8206.3	7294.8	4495.4	2599.5	1902.7	1494.9	1212.6
57.5°	9663.4	9350.1	9109.7	8889.6	8705.9	7654.0	3994.4	2344.3	1659.6	1237.0	965.5
60°	10271.0	9918.6	9633.7	9398.7	9182.6	7839.0	3432.7	2117.4	1400.3	957.4	698.1
62.5°	11090.7	10685.6	10356.1	10087.4	9805.1	7879.5	3049.2	1890.5	1111.4	692.7	507.7
65°	12306.1	11806.4	11394.6	11024.5	10642.4	7712.1	2860.1	1643.4	826.4	514.5	425.4
67.5°	13271.6	12753.0	12276.4	11801.0	11312.2	7401.5	2818.3	1415.2	634.7	437.5	382.2
69°	13154.1	12659.9	12222.3	11707.8	11166.3	7011.2	2776.4	1327.4	579.3	406.5	361.9
70°	12701.7	12233.1	11788.9	11370.2	10707.2	6576.4	2665.7	1278.8	557.7	391.6	347.0
72.5°	10732.9	10190.0	9759.2	9238.0	8539.8	4887.0	2021.5	1034.4	511.8	357.9	313.3
75°	7828.2	7378.5	6949.1	6372.5	5693.2	2827.7	1258.6	591.5	375.4	324.1	283.6
77.5°	4571.1	4469.8	4055.2	3675.7	3003.3	1439.5	722.5	353.8	291.7	294.4	249.8
80°	1720.4	1832.5	1874.3	1743.3	1611.0	993.9	525.3	287.6	253.9	290.3	212.0
82.5°	1254.5	1455.7	1480.0	1417.9	1319.3	926.4	420.0	230.9	206.6	311.9	182.3
85°	1046.5	1158.6	1176.2	1111.4	1079.0	784.6	293.0	162.0	151.2	224.2	136.4
87.5°	529.4	557.7	572.6	518.5	521.2	366.0	117.5	68.9	82.4	95.9	75.6
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-E08-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	3995.8	3995.8
2.5°	3940.4	3948.5
5°	3945.8	3945.8
7.5°	3976.9	3976.9
10°	4010.6	4012.0
12.5°	4041.7	4040.4
15°	4066.0	4062.0
17.5°	4080.9	4076.8
20°	4066.0	4059.3
22.5°	3990.4	3971.5
25°	3852.6	3828.3
27.5°	3670.3	3654.1
30°	3432.7	3408.4
32.5°	3154.5	3142.3
35°	2888.5	2873.6
37.5°	2645.4	2641.4
40°	2440.1	2418.5
42.5°	2199.8	2190.3
45°	1955.4	1950.0
47.5°	1725.8	1720.4
50°	1513.8	1503.0
52.5°	1305.8	1288.3
55°	1074.9	1062.8
57.5°	825.1	814.3
60°	580.7	568.5
62.5°	413.2	399.7
65°	344.3	333.5
67.5°	311.9	299.8
69°	297.1	286.3
70°	287.6	279.5
72.5°	267.4	262.0
75°	244.4	240.4
77.5°	214.7	208.0
80°	179.6	172.8
82.5°	151.2	144.5
85°	101.3	91.8
87.5°	45.9	40.5
90°	0.0	0.0

(END OF REPORT)