

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: P158029

Luminaire Tested: **VST-E07-LED-E-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158029
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-E07-LED-E-U-RW-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (147) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 19918.3 lumens
Efficiency: N/A
Efficacy: 115.5 lumens/watt
Luminous Opening: Rectangular (W 1.17' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

Input Watts (W): 172.5
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

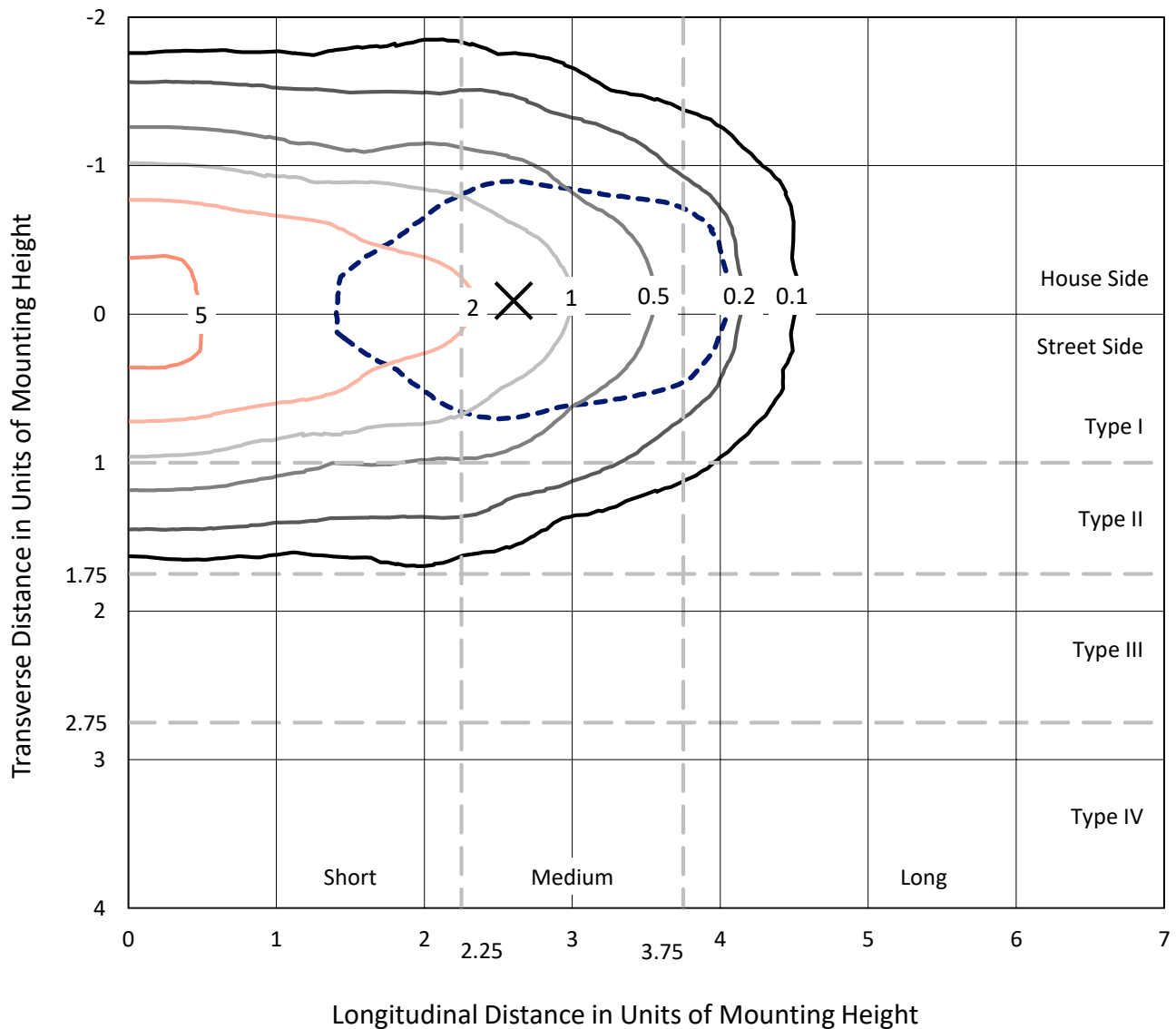


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

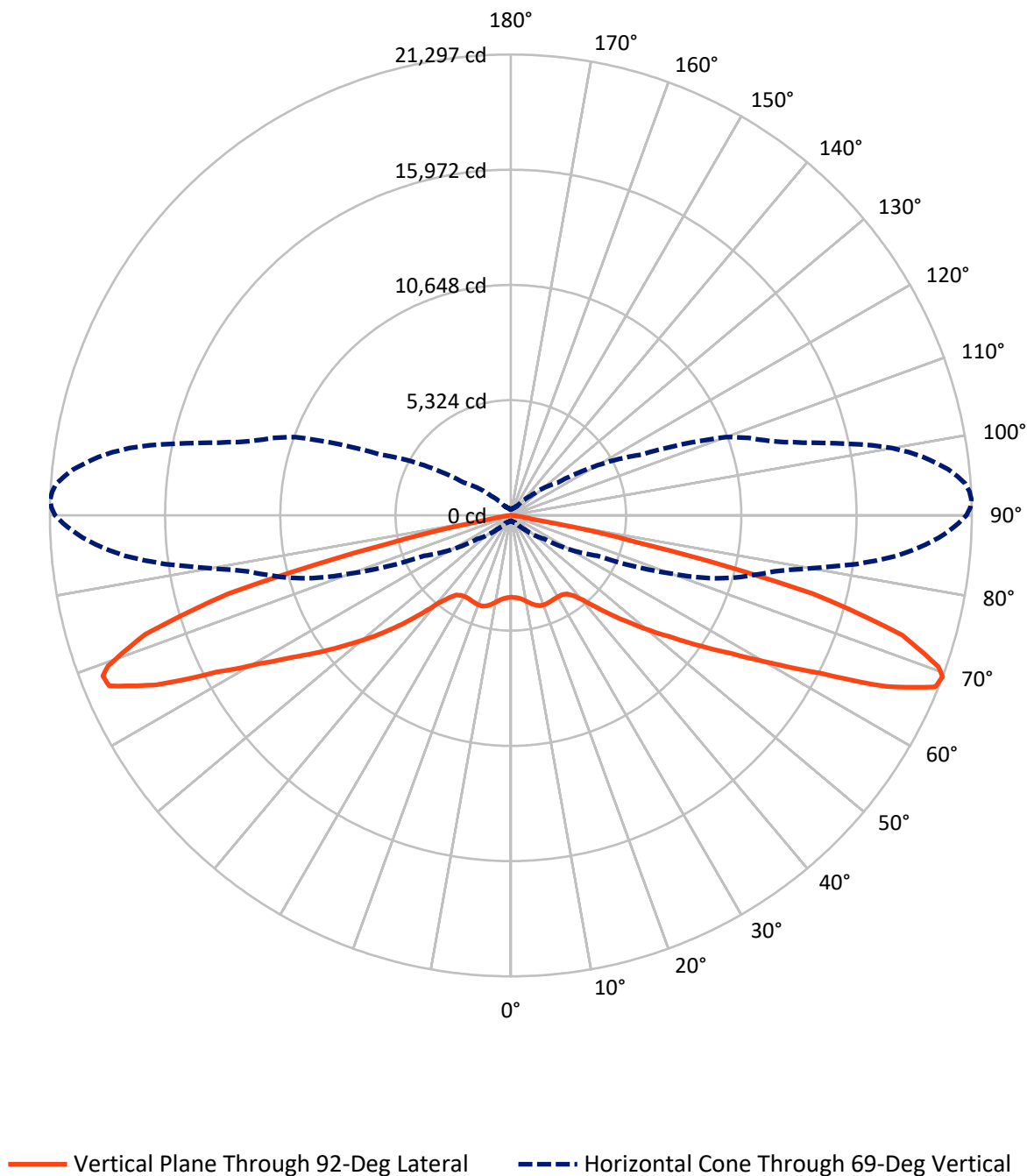


Based on 25 foot mounting height. Maximum calculated value = 6.2 fc
Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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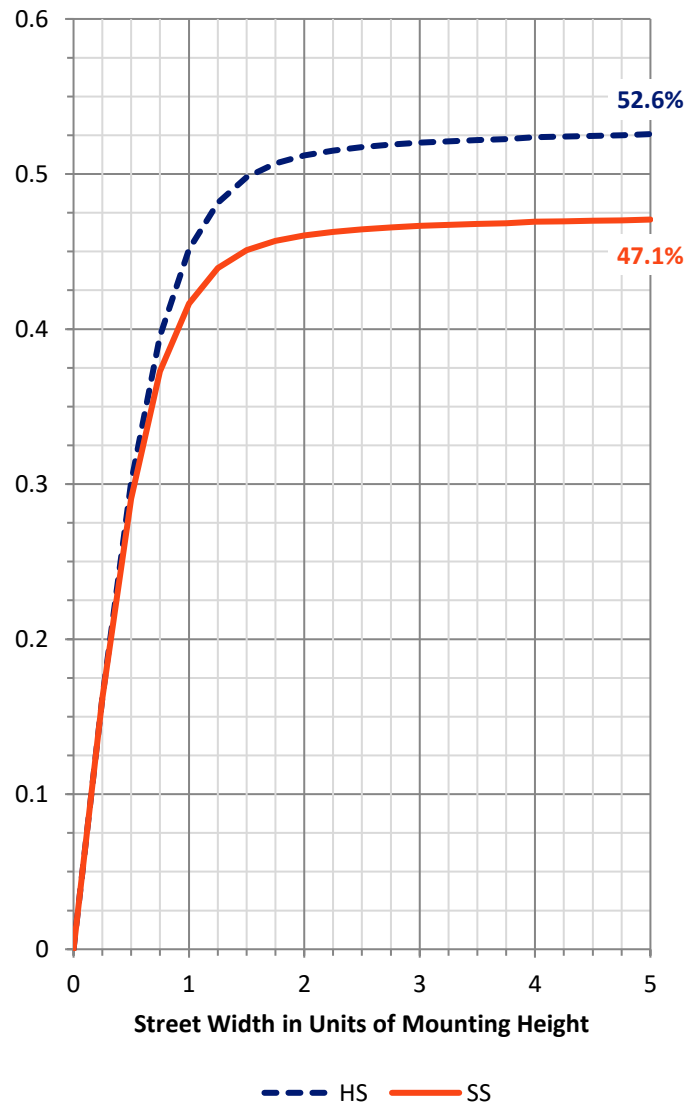
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	10563.7	0.0	10563.7
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	9354.6	0.0	9354.6
	% Fixture	47.0	0.0	47.0
Total	Lumens	19918.3	0.0	19918.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	370.2	1.9
10°-20°	1169.6	5.9
20°-30°	1897.5	9.5
30°-40°	2364.8	11.9
40°-50°	2944.4	14.8
50°-60°	3631.2	18.2
60°-70°	4509.8	22.6
70°-80°	2771.0	13.9
80°-90°	259.7	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°	19918.3	100.0
0°-180°	19918.3	100.0

Coefficient of Utilization



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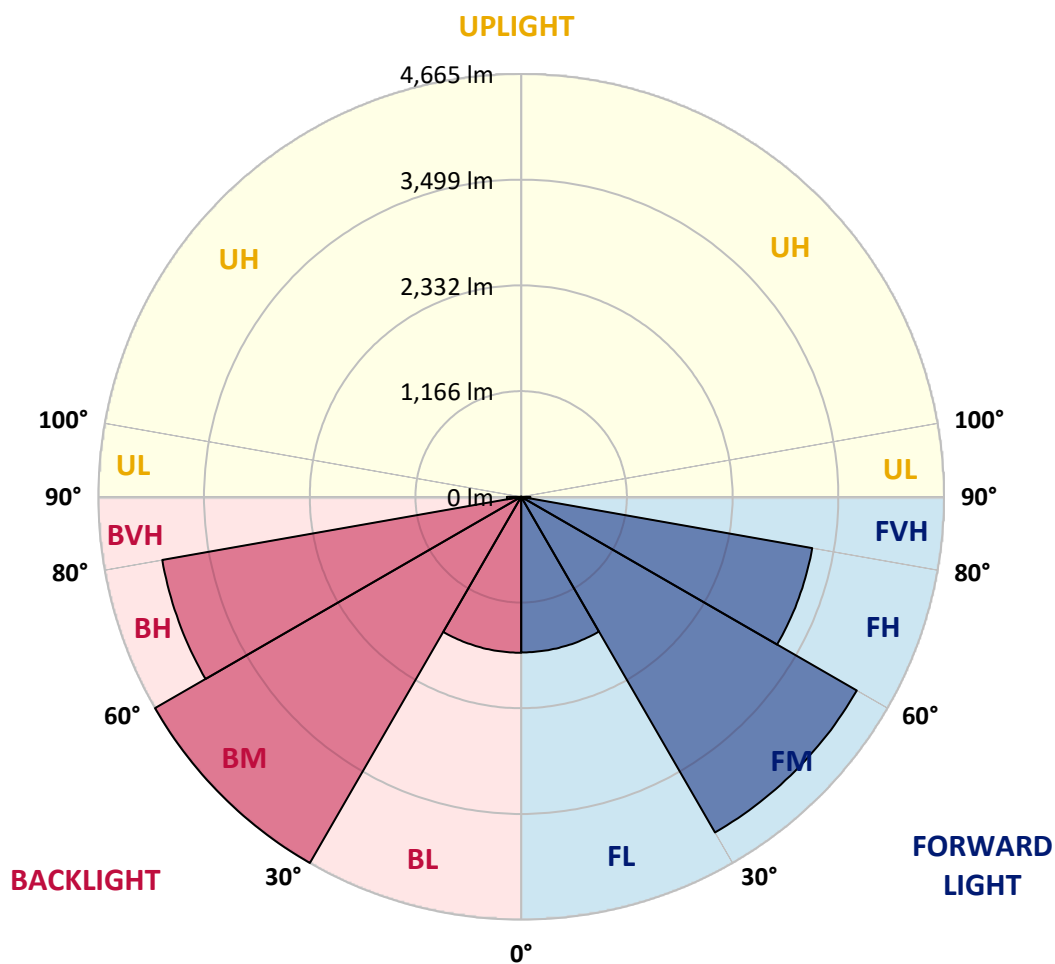
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1716.8	8.6			
FM	(30°-60°)	4275.7	21.5			
FH	(60°-80°)	3260.4	16.4			G2/5000
FVH	(80°-90°)	101.7	0.5			G2/225
BL	(0°-30°)	1720.5	8.6	B3/2500		
BM	(30°-60°)	4664.8	23.4	B3/5000		
BH	(60°-80°)	4020.4	20.2	B4/5000		G4/5000
BVH	(80°-90°)	158.0	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°	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6
2.5°	3843.7	3833.5	3842.5	3843.7	3842.5	3842.5	3831.0	3828.4	3813.1	3816.9	3815.6
5°	3896.2	3892.3	3898.7	3901.3	3903.8	3898.7	3889.8	3885.9	3875.7	3871.9	3870.6
7.5°	3944.8	3938.4	3948.6	3957.5	3963.9	3965.2	3966.5	3960.1	3960.1	3955.0	3955.0
10°	3985.7	3980.6	3997.2	4008.7	4029.2	4040.7	4053.4	4062.4	4067.5	4068.8	4067.5
12.5°	4003.6	3999.7	4026.6	4061.1	4099.5	4126.3	4158.3	4181.3	4187.7	4186.4	4192.8
15°	3972.9	3975.4	4016.4	4084.1	4166.0	4233.7	4278.5	4297.7	4302.8	4305.4	4306.6
17.5°	3889.8	3894.9	3953.7	4063.7	4206.9	4329.6	4396.1	4396.1	4385.9	4385.9	4384.6
20°	3756.8	3761.9	3838.6	3997.2	4208.2	4396.1	4490.8	4471.6	4433.2	4425.5	4417.9
22.5°	3572.7	3593.1	3677.5	3861.6	4153.2	4415.3	4549.6	4521.4	4461.4	4444.7	4433.2
25°	3364.2	3361.7	3462.7	3669.8	4020.2	4369.3	4566.2	4561.1	4497.2	4479.3	4458.8
27.5°	3126.4	3134.1	3227.4	3437.1	3816.9	4236.3	4538.1	4605.8	4553.4	4535.5	4516.3
30°	2882.2	2889.8	2978.1	3222.3	3585.4	4045.8	4480.5	4649.3	4628.9	4614.8	4602.0
32.5°	2636.7	2639.2	2744.1	3006.2	3389.8	3818.2	4393.6	4689.0	4717.1	4710.7	4705.6
35°	2406.5	2409.1	2522.9	2788.8	3196.7	3623.8	4288.7	4746.5	4837.3	4845.0	4850.1
37.5°	2182.7	2186.6	2302.9	2581.7	3006.2	3476.8	4172.4	4834.7	5006.1	5034.2	5039.3
40°	1960.2	1964.1	2075.3	2370.7	2813.1	3347.6	4082.9	4958.8	5233.7	5272.0	5311.7
42.5°	1748.0	1762.0	1856.7	2139.2	2598.3	3187.8	4044.5	5109.6	5503.5	5563.6	5608.3
45°	1549.8	1551.1	1658.5	1923.2	2343.8	2971.7	4018.9	5281.0	5805.3	5896.0	5957.4
47.5°	1337.5	1352.9	1465.4	1722.4	2106.0	2704.4	3937.1	5481.7	6133.9	6240.0	6364.0
50°	1131.6	1153.4	1262.1	1516.5	1888.6	2428.2	3717.2	5717.0	6503.4	6641.5	6784.7
52.5°	933.4	932.2	1047.2	1311.9	1670.0	2194.2	3360.4	5963.8	6930.5	7078.8	7233.6
55°	705.8	705.8	819.6	1061.3	1433.4	1985.8	2978.1	6117.3	7326.9	7505.9	7674.7
57.5°	484.6	497.4	604.8	813.2	1186.6	1795.3	2685.2	6029.0	7629.9	7852.4	8053.2
60°	359.3	372.1	451.4	584.4	928.3	1570.2	2465.3	5613.5	7812.8	8108.2	8369.0
62.5°	310.7	319.7	395.1	468.0	668.8	1331.1	2271.0	5085.4	8076.2	8480.3	8843.4
65°	277.5	286.4	361.9	404.1	523.0	1070.3	2162.3	4783.6	8390.8	9008.4	9535.2
67.5°	257.0	267.2	331.2	361.9	456.5	968.0	2077.9	4713.3	8388.2	9137.5	9810.1
69°	246.8	254.5	306.9	340.1	441.1	937.3	1895.0	4407.6	7834.5	8638.8	9314.0
70°	240.4	248.1	292.8	326.1	436.0	882.3	1726.2	4003.6	7204.1	8013.6	8698.9
72.5°	219.9	227.6	260.9	291.5	363.1	589.5	1203.2	2562.5	5148.0	5726.0	6509.8
75°	194.4	203.3	228.9	254.5	274.9	341.4	694.3	1329.8	2943.5	3382.1	4080.3
77.5°	158.6	167.5	194.4	235.3	232.7	259.6	451.4	817.1	1378.4	1709.6	1967.9
80°	130.4	136.8	159.8	237.8	190.5	217.4	365.7	670.0	970.5	1072.8	1134.2
82.5°	87.0	95.9	124.0	186.7	145.8	154.7	273.6	626.6	820.9	900.2	974.4
85°	40.9	44.8	75.4	99.7	88.2	83.1	156.0	442.4	611.2	648.3	676.4
87.5°	0.0	0.0	3.8	7.7	11.5	11.5	28.1	93.3	171.3	207.1	204.6
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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CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6
2.5°	3810.5	3811.8	3810.5	3810.5	3809.2	3806.7	3806.7	3804.1	3805.4	3804.1	3806.7
5°	3869.3	3869.3	3865.5	3862.9	3866.8	3862.9	3864.2	3857.8	3857.8	3854.0	3848.9
7.5°	3953.7	3953.7	3955.0	3947.3	3952.4	3953.7	3949.9	3947.3	3944.8	3938.4	3939.6
10°	4066.2	4066.2	4070.1	4059.8	4065.0	4067.5	4068.8	4068.8	4066.2	4054.7	4056.0
12.5°	4191.5	4189.0	4190.3	4185.2	4190.3	4192.8	4195.4	4192.8	4192.8	4190.3	4189.0
15°	4305.4	4304.1	4306.6	4302.8	4304.1	4306.6	4314.3	4313.0	4311.7	4304.1	4304.1
17.5°	4383.4	4379.5	4377.0	4375.7	4375.7	4374.4	4375.7	4375.7	4371.8	4370.6	4370.6
20°	4412.8	4402.5	4396.1	4392.3	4387.2	4384.6	4382.1	4383.4	4380.8	4377.0	4378.2
22.5°	4417.9	4403.8	4391.0	4379.5	4369.3	4362.9	4356.5	4353.9	4347.5	4343.7	4343.7
25°	4442.2	4420.4	4400.0	4380.8	4365.4	4351.4	4337.3	4327.1	4319.4	4310.5	4307.9
27.5°	4495.9	4472.9	4448.6	4424.3	4403.8	4375.7	4356.5	4336.0	4318.1	4304.1	4293.8
30°	4579.0	4556.0	4531.7	4503.5	4476.7	4447.3	4415.3	4391.0	4365.4	4337.3	4322.0
32.5°	4689.0	4673.6	4649.3	4622.5	4598.2	4567.5	4529.1	4492.0	4467.7	4434.5	4410.2
35°	4846.2	4828.3	4820.7	4809.2	4784.9	4765.7	4723.5	4689.0	4665.9	4619.9	4602.0
37.5°	5061.1	5059.8	5066.2	5062.3	5066.2	5041.9	5022.7	5021.4	4988.2	4943.4	4899.9
40°	5353.9	5369.2	5403.7	5428.0	5451.1	5453.6	5480.5	5452.3	5456.2	5449.8	5405.0
42.5°	5687.6	5740.0	5781.0	5852.6	5907.6	5958.7	5993.2	6040.5	6076.3	6108.3	6116.0
45°	6059.7	6137.7	6232.3	6296.3	6403.7	6489.4	6607.0	6697.8	6792.4	6885.7	6919.0
47.5°	6463.8	6561.0	6665.8	6784.7	6920.3	7054.5	7236.1	7375.5	7527.7	7654.2	7766.8
50°	6910.0	7011.1	7151.7	7288.5	7475.2	7629.9	7867.8	8050.6	8296.1	8464.9	8610.7
52.5°	7375.5	7502.1	7659.4	7810.2	8000.8	8199.0	8463.7	8733.5	9028.8	9284.6	9496.8
55°	7830.7	7986.7	8137.6	8314.0	8525.0	8755.2	9054.4	9409.9	9778.1	10071.0	10352.3
57.5°	8236.0	8416.3	8594.1	8773.1	8989.2	9256.4	9592.7	9976.3	10398.3	10788.3	11174.5
60°	8612.0	8828.1	9045.5	9269.2	9517.3	9847.2	10251.3	10723.1	11269.1	11802.3	12307.4
62.5°	9206.6	9490.4	9760.2	10049.2	10348.4	10735.9	11212.8	11831.7	12458.3	13124.5	13642.3
65°	10012.1	10411.1	10764.0	11138.7	11526.1	12044.0	12614.3	13354.6	14252.3	14935.1	15766.3
67.5°	10412.4	10937.9	11391.9	11808.7	12288.2	12811.2	13488.9	14364.8	15322.5	16312.3	17239.3
69°	9941.8	10484.0	10986.5	11453.2	11937.9	12445.5	13153.9	14052.8	15065.5	16135.8	17041.1
70°	9331.9	9874.0	10409.8	10941.8	11384.2	11879.0	12590.0	13517.0	14528.5	15640.9	16538.6
72.5°	7149.2	7801.3	8285.9	8784.6	9297.4	9716.8	10537.7	11319.0	12372.6	13501.7	14490.1
75°	4573.9	5173.6	5703.0	6127.5	6628.7	7131.3	7737.4	8605.6	9265.4	10192.4	10994.2
77.5°	2350.2	2528.0	3038.2	3190.3	3538.1	3811.8	4145.5	4362.9	4899.9	5013.7	5486.9
80°	1113.7	1003.8	945.0	891.2	906.6	900.2	873.3	837.5	882.3	863.1	855.4
82.5°	970.5	865.7	690.5	586.9	507.6	430.9	370.8	340.1	344.0	354.2	358.0
85°	680.3	639.3	498.7	378.5	295.4	228.9	184.1	176.5	181.6	195.6	190.5
87.5°	196.9	205.9	181.6	126.6	88.2	63.9	49.9	56.3	53.7	52.4	55.0
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6
2.5°	3806.7	3805.4	3801.5	3797.7	3797.7	3795.2	3797.7	3799.0	3797.7	3797.7	3795.2
5°	3850.1	3851.4	3855.3	3847.6	3846.3	3847.6	3842.5	3841.2	3837.4	3841.2	3836.1
7.5°	3933.3	3937.1	3937.1	3932.0	3930.7	3934.5	3926.9	3924.3	3920.5	3919.2	3917.9
10°	4057.3	4061.1	4054.7	4050.9	4047.1	4052.2	4045.8	4045.8	4041.9	4038.1	4036.8
12.5°	4195.4	4192.8	4190.3	4192.8	4189.0	4189.0	4185.2	4182.6	4181.3	4180.0	4177.5
15°	4302.8	4311.7	4311.7	4314.3	4311.7	4311.7	4306.6	4307.9	4305.4	4304.1	4305.4
17.5°	4371.8	4374.4	4380.8	4384.6	4384.6	4385.9	4383.4	4385.9	4383.4	4383.4	4388.5
20°	4380.8	4383.4	4389.7	4396.1	4400.0	4402.5	4402.5	4406.4	4408.9	4411.5	4417.9
22.5°	4345.0	4348.8	4356.5	4368.0	4374.4	4377.0	4382.1	4388.5	4394.9	4400.0	4408.9
25°	4307.9	4309.2	4316.9	4328.4	4336.0	4342.4	4351.4	4359.1	4368.0	4378.2	4388.5
27.5°	4287.4	4286.2	4292.6	4304.1	4310.5	4319.4	4327.1	4338.6	4348.8	4361.6	4370.6
30°	4305.4	4295.1	4296.4	4301.5	4306.6	4313.0	4322.0	4332.2	4343.7	4355.2	4365.4
32.5°	4384.6	4361.6	4346.3	4342.4	4343.7	4345.0	4350.1	4356.5	4365.4	4374.4	4378.2
35°	4556.0	4516.3	4495.9	4479.3	4465.2	4453.7	4456.2	4455.0	4455.0	4462.6	4453.7
37.5°	4882.0	4832.2	4810.4	4781.0	4764.4	4722.2	4710.7	4708.1	4691.5	4691.5	4672.3
40°	5393.5	5364.1	5347.5	5320.6	5240.1	5250.3	5192.8	5194.0	5146.7	5151.8	5118.6
42.5°	6121.1	6124.9	6104.5	6086.6	6023.9	5995.8	5942.1	5865.4	5805.3	5804.0	5737.5
45°	6962.5	7008.5	6943.3	6966.3	6911.3	6835.9	6773.2	6674.8	6581.4	6552.0	6484.2
47.5°	7842.2	7917.7	7867.8	7876.7	7849.9	7742.5	7658.1	7536.6	7415.1	7333.3	7292.4
50°	8782.0	8831.9	8830.6	8806.3	8793.6	8688.7	8553.2	8461.1	8371.6	8261.6	8225.8
52.5°	9633.7	9750.0	9828.0	9810.1	9773.0	9710.4	9590.2	9510.9	9379.2	9363.9	9379.2
55°	10545.4	10696.2	10775.5	10871.4	10872.7	10861.2	10811.3	10781.9	10659.2	10673.2	10655.3
57.5°	11408.5	11629.7	11751.2	11955.8	12026.1	12119.4	12084.9	12123.3	12049.1	12097.7	12083.6
60°	12578.5	12885.4	13087.4	13367.4	13497.9	13731.9	13777.9	13806.0	13846.9	13946.7	13890.4
62.5°	14050.3	14500.4	14919.8	15300.8	15426.1	15777.8	15835.3	16055.2	16066.7	16134.5	16010.5
65°	16459.3	17007.9	17469.5	17926.0	18189.4	18601.1	18767.3	19194.4	19064.0	19119.0	18854.3
67.5°	18037.2	18675.3	19294.2	19726.4	20163.7	20584.4	20887.4	21163.6	21161.0	21107.3	20872.1
69°	17897.8	18608.8	19218.7	19798.0	20258.3	20690.5	21054.9	21233.9	21296.6	21218.6	21051.1
70°	17415.8	18145.9	18892.7	19369.6	19870.8	20345.2	20721.2	20916.8	20960.3	20905.3	20760.8
72.5°	15188.3	15889.0	16712.5	17146.0	17752.1	18094.7	18612.6	18865.8	18910.6	18840.2	18745.6
75°	11853.5	11980.1	12818.9	13095.1	13534.9	13930.1	14252.3	14170.4	14399.3	14354.6	14318.8
77.5°	5584.0	5246.5	5789.9	6043.1	5910.1	5555.9	6071.2	5699.1	5945.9	6266.9	6185.0
80°	920.7	918.1	942.4	996.1	932.2	989.7	988.4	960.3	962.9	1031.9	996.1
82.5°	354.2	361.9	365.7	375.9	375.9	377.2	383.6	391.3	384.9	397.7	395.1
85°	191.8	204.6	193.1	184.1	190.5	194.4	199.5	205.9	199.5	218.7	208.4
87.5°	49.9	52.4	46.0	46.0	44.8	40.9	40.9	43.5	47.3	56.3	61.4
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-E07-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6
2.5°	3790.0	3791.3	3792.6	3788.8	3786.2	3786.2	3784.9	3782.4	3781.1	3781.1	3781.1
5°	3833.5	3836.1	3829.7	3828.4	3825.8	3823.3	3823.3	3820.7	3822.0	3822.0	3815.6
7.5°	3920.5	3916.6	3909.0	3903.8	3909.0	3900.0	3896.2	3898.7	3896.2	3897.4	3894.9
10°	4036.8	4036.8	4027.9	4033.0	4026.6	4016.4	4020.2	4016.4	4013.8	4004.9	4010.0
12.5°	4181.3	4177.5	4172.4	4160.9	4157.0	4155.7	4144.2	4145.5	4141.7	4139.1	4135.3
15°	4307.9	4306.6	4295.1	4288.7	4287.4	4282.3	4277.2	4274.7	4268.3	4267.0	4264.4
17.5°	4392.3	4388.5	4383.4	4377.0	4377.0	4369.3	4366.7	4360.3	4359.1	4355.2	4351.4
20°	4420.4	4421.7	4416.6	4411.5	4408.9	4403.8	4400.0	4394.9	4392.3	4387.2	4383.4
22.5°	4414.0	4414.0	4408.9	4407.6	4402.5	4394.9	4389.7	4383.4	4377.0	4370.6	4362.9
25°	4393.6	4392.3	4388.5	4382.1	4375.7	4364.2	4353.9	4343.7	4334.8	4327.1	4315.6
27.5°	4375.7	4373.1	4365.4	4356.5	4343.7	4330.9	4311.7	4297.7	4286.2	4275.9	4263.2
30°	4369.3	4360.3	4348.8	4334.8	4319.4	4300.2	4279.8	4261.9	4249.1	4238.9	4233.7
32.5°	4377.0	4365.4	4347.5	4329.6	4310.5	4287.4	4267.0	4251.6	4240.1	4237.6	4237.6
35°	4447.3	4428.1	4403.8	4378.2	4353.9	4334.8	4320.7	4319.4	4311.7	4320.7	4334.8
37.5°	4653.2	4636.5	4599.4	4566.2	4549.6	4540.6	4527.8	4530.4	4512.5	4540.6	4563.6
40°	5090.5	5070.0	5026.5	4999.7	4966.4	4934.5	4960.0	4952.4	4965.2	4960.0	4984.3
42.5°	5728.5	5708.1	5639.0	5628.8	5614.7	5601.9	5601.9	5591.7	5586.6	5604.5	5584.0
45°	6504.7	6463.8	6438.2	6468.9	6426.7	6439.5	6484.2	6424.1	6438.2	6355.1	6278.4
47.5°	7310.3	7306.4	7300.0	7337.1	7343.5	7362.7	7387.0	7325.6	7214.4	7151.7	6995.7
50°	8237.3	8277.0	8292.3	8328.1	8343.5	8357.5	8319.2	8228.4	8040.4	7874.2	7690.0
52.5°	9363.9	9294.8	9389.4	9423.9	9408.6	9352.3	9214.2	9103.0	8843.4	8604.3	8319.2
55°	10675.8	10692.4	10625.9	10599.1	10546.6	10390.6	10200.1	9949.5	9620.9	9308.9	8948.3
57.5°	12012.0	12005.6	11902.1	11756.3	11578.5	11390.6	11106.7	10747.4	10363.8	9944.4	9508.3
60°	13637.2	13630.8	13421.1	13171.8	12918.6	12615.6	12170.6	11738.4	11224.3	10673.2	10154.1
62.5°	15772.6	15497.7	15291.9	14919.8	14528.5	14132.1	13529.8	12955.7	12269.0	11573.4	10967.3
65°	18509.0	18056.4	17822.4	17282.8	16676.7	16057.8	15445.3	14690.9	13766.4	12925.0	12184.6
67.5°	20533.2	20118.9	19690.6	19152.2	18487.3	17796.8	16958.0	16007.9	14958.1	14014.4	13207.6
69°	20710.9	20323.5	19809.5	19269.9	18640.7	17890.2	16974.6	15910.7	14846.9	13891.7	13097.6
70°	20441.1	20029.4	19488.5	18927.2	18223.9	17515.5	16556.5	15447.9	14382.7	13425.0	12650.1
72.5°	18428.5	18027.0	17451.6	16780.3	16059.1	15453.0	14542.5	13386.6	12228.1	11343.3	10739.7
75°	14013.2	13924.9	13517.0	13125.8	12558.0	11881.6	11049.2	10271.7	9321.7	8385.7	7823.0
77.5°	5979.2	6182.5	6394.7	6425.4	6445.9	6237.5	6108.3	5912.7	5277.2	4988.2	4690.2
80°	1104.8	987.1	1053.6	1061.3	1104.8	1127.8	1212.2	1437.2	1462.8	1517.8	1585.6
82.5°	392.6	399.0	409.2	413.0	416.9	432.2	489.7	586.9	675.1	790.2	943.7
85°	222.5	226.3	235.3	243.0	248.1	263.4	295.4	352.9	439.9	571.6	774.9
87.5°	67.8	76.7	81.8	92.1	95.9	98.5	112.5	150.9	194.4	287.7	419.4
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-E07-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6	3783.6
2.5°	3781.1	3779.8	3777.3	3774.7	3776.0	3773.4	3765.7	3763.2	3754.2	3747.8	3742.7
5°	3815.6	3814.3	3809.2	3810.5	3809.2	3796.4	3787.5	3772.1	3763.2	3749.1	3744.0
7.5°	3887.2	3885.9	3877.0	3880.8	3878.3	3859.1	3843.7	3819.4	3806.7	3788.8	3774.7
10°	3994.6	3994.6	3984.4	3985.7	3985.7	3960.1	3933.3	3892.3	3862.9	3834.8	3810.5
12.5°	4125.1	4119.9	4118.7	4112.3	4107.2	4079.0	4038.1	3983.1	3928.1	3882.1	3848.9
15°	4256.8	4249.1	4245.3	4237.6	4231.2	4205.6	4150.6	4082.9	4008.7	3934.5	3879.5
17.5°	4342.4	4337.3	4329.6	4327.1	4318.1	4292.6	4254.2	4186.4	4094.4	3990.8	3907.7
20°	4374.4	4365.4	4360.3	4355.2	4350.1	4332.2	4332.2	4288.7	4186.4	4040.7	3914.1
22.5°	4353.9	4348.8	4341.2	4337.3	4332.2	4334.8	4384.6	4378.2	4260.6	4052.2	3868.0
25°	4306.6	4300.2	4293.8	4293.8	4292.6	4319.4	4439.6	4456.2	4282.3	3995.9	3767.0
27.5°	4258.0	4249.1	4251.6	4252.9	4259.3	4316.9	4499.7	4476.7	4223.5	3860.4	3593.1
30°	4228.6	4228.6	4235.0	4245.3	4258.0	4359.1	4547.0	4430.7	4071.4	3655.8	3363.0
32.5°	4241.4	4254.2	4268.3	4293.8	4313.0	4452.4	4563.6	4311.7	3850.1	3402.6	3122.6
35°	4355.2	4370.6	4397.4	4437.1	4460.1	4586.7	4563.6	4137.8	3593.1	3185.2	2874.5
37.5°	4603.3	4618.6	4650.6	4681.3	4704.3	4755.4	4544.5	3916.6	3378.3	2960.2	2652.0
40°	5002.2	5024.0	5047.0	5041.9	5026.5	4976.7	4506.1	3710.8	3180.1	2763.3	2433.3
42.5°	5563.6	5543.1	5540.6	5490.7	5439.5	5226.0	4478.0	3576.5	3010.0	2556.1	2216.0
45°	6211.9	6128.8	6043.1	5976.6	5898.6	5499.6	4470.3	3467.8	2822.1	2325.9	1979.4
47.5°	6864.0	6731.0	6564.8	6461.2	6334.6	5791.2	4493.3	3322.0	2580.4	2075.3	1758.2
50°	7503.4	7286.0	7080.1	6956.1	6812.9	6126.2	4530.4	3076.5	2291.4	1847.7	1556.2
52.5°	8095.4	7815.4	7604.4	7458.6	7283.4	6516.2	4497.2	2754.3	2040.8	1629.1	1364.4
55°	8658.0	8348.6	8129.9	7976.5	7770.6	6907.5	4256.8	2461.5	1801.7	1415.5	1148.3
57.5°	9150.3	8853.7	8626.0	8417.6	8243.7	7247.6	3782.4	2219.8	1571.5	1171.3	914.3
60°	9725.7	9392.0	9122.2	8899.7	8695.1	7422.8	3250.4	2005.0	1326.0	906.6	661.1
62.5°	10501.9	10118.3	9806.3	9551.8	9284.6	7461.2	2887.3	1790.2	1052.4	656.0	480.8
65°	11652.7	11179.6	10789.6	10439.2	10077.4	7302.6	2708.3	1556.2	782.6	487.2	402.8
67.5°	12567.0	12076.0	11624.6	11174.5	10711.6	7008.5	2668.6	1340.1	601.0	414.3	361.9
69°	12455.7	11987.7	11573.4	11086.2	10573.5	6639.0	2629.0	1257.0	548.6	384.9	342.7
70°	12027.4	11583.7	11163.0	10766.6	10138.7	6227.2	2524.1	1210.9	528.1	370.8	328.6
72.5°	10163.0	9649.0	9241.1	8747.5	8086.4	4627.6	1914.2	979.5	484.6	338.9	296.7
75°	7412.6	6986.8	6580.1	6034.1	5391.0	2677.6	1191.7	560.1	355.5	306.9	268.5
77.5°	4328.4	4232.5	3839.9	3480.6	2843.8	1363.1	684.1	335.0	276.2	278.8	236.6
80°	1629.1	1735.2	1774.8	1650.8	1525.5	941.1	497.4	272.4	240.4	274.9	200.8
82.5°	1187.9	1378.4	1401.4	1342.6	1249.3	877.2	397.7	218.7	195.6	295.4	172.6
85°	991.0	1097.1	1113.7	1052.4	1021.7	742.9	277.5	153.4	143.2	212.3	129.1
87.5°	501.2	528.1	542.2	491.0	493.6	346.5	111.2	65.2	78.0	90.8	71.6
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-E07-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	3783.6	3783.6
2.5°	3731.2	3738.9
5°	3736.3	3736.3
7.5°	3765.7	3765.7
10°	3797.7	3799.0
12.5°	3827.1	3825.8
15°	3850.1	3846.3
17.5°	3864.2	3860.4
20°	3850.1	3843.7
22.5°	3778.5	3760.6
25°	3648.1	3625.1
27.5°	3475.5	3460.1
30°	3250.4	3227.4
32.5°	2987.0	2975.5
35°	2735.1	2721.1
37.5°	2505.0	2501.1
40°	2310.6	2290.1
42.5°	2083.0	2074.0
45°	1851.5	1846.4
47.5°	1634.2	1629.1
50°	1433.4	1423.2
52.5°	1236.5	1219.9
55°	1017.8	1006.3
57.5°	781.3	771.1
60°	549.8	538.3
62.5°	391.3	378.5
65°	326.1	315.8
67.5°	295.4	283.9
69°	281.3	271.1
70°	272.4	264.7
72.5°	253.2	248.1
75°	231.4	227.6
77.5°	203.3	196.9
80°	170.1	163.7
82.5°	143.2	136.8
85°	95.9	87.0
87.5°	43.5	38.4
90°	0.0	0.0

(END OF REPORT)