

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: P158028

Luminaire Tested: **VST-E07-LED-E-U-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158028
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (147) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 18405.7 lumens
Efficiency: N/A
Efficacy: 106.7 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

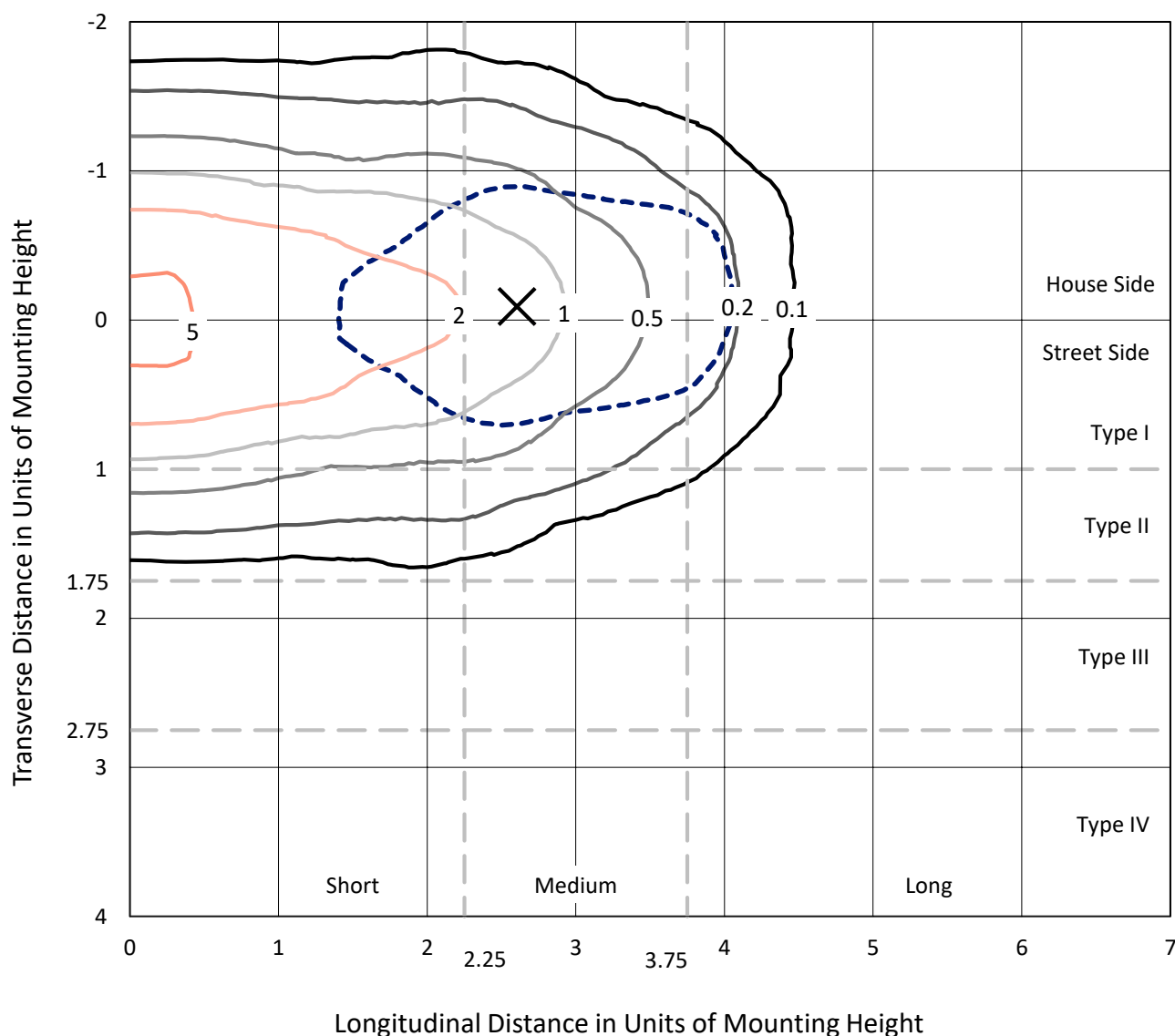


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

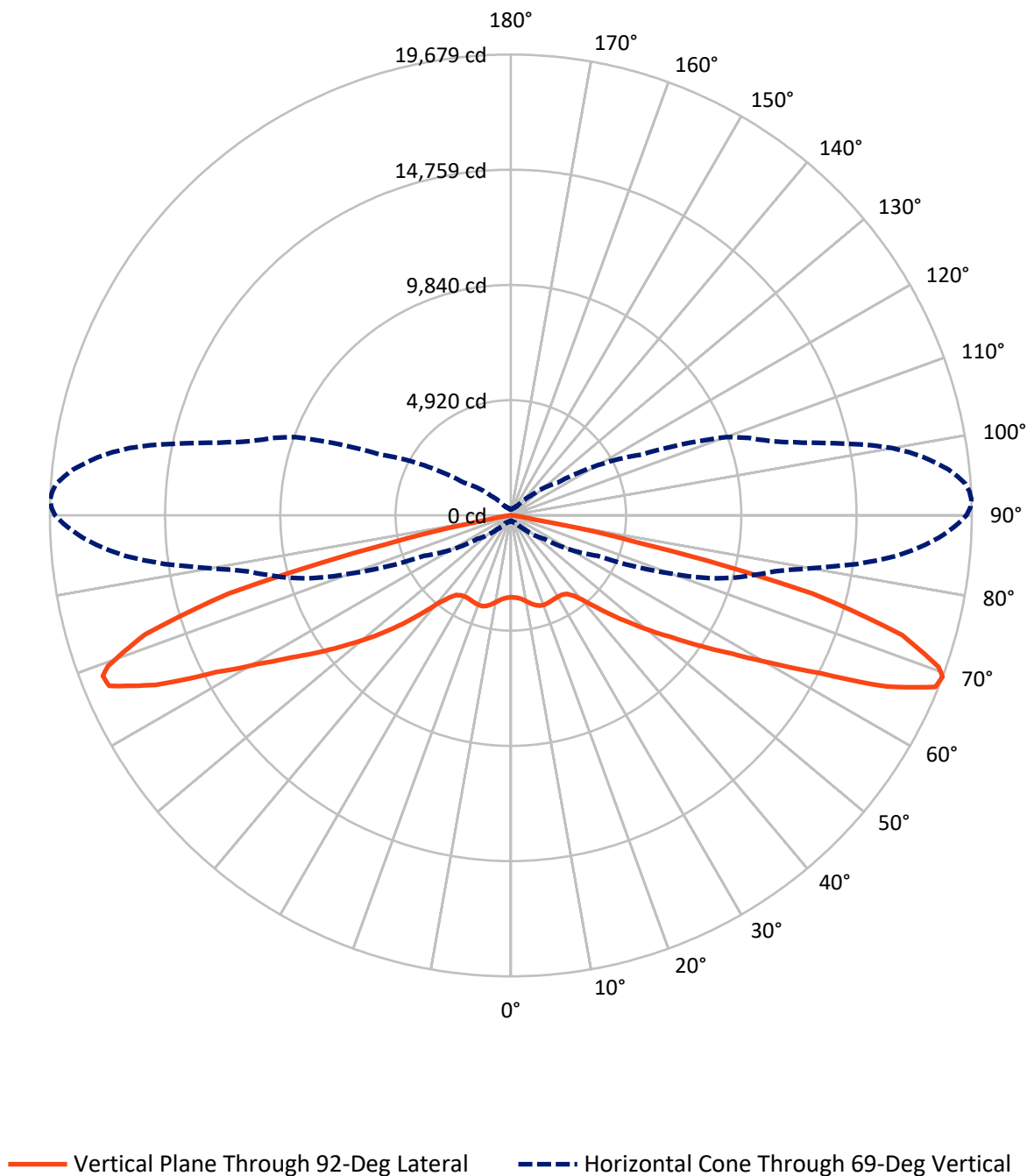


Based on 25 foot mounting height. Maximum calculated value = 5.8 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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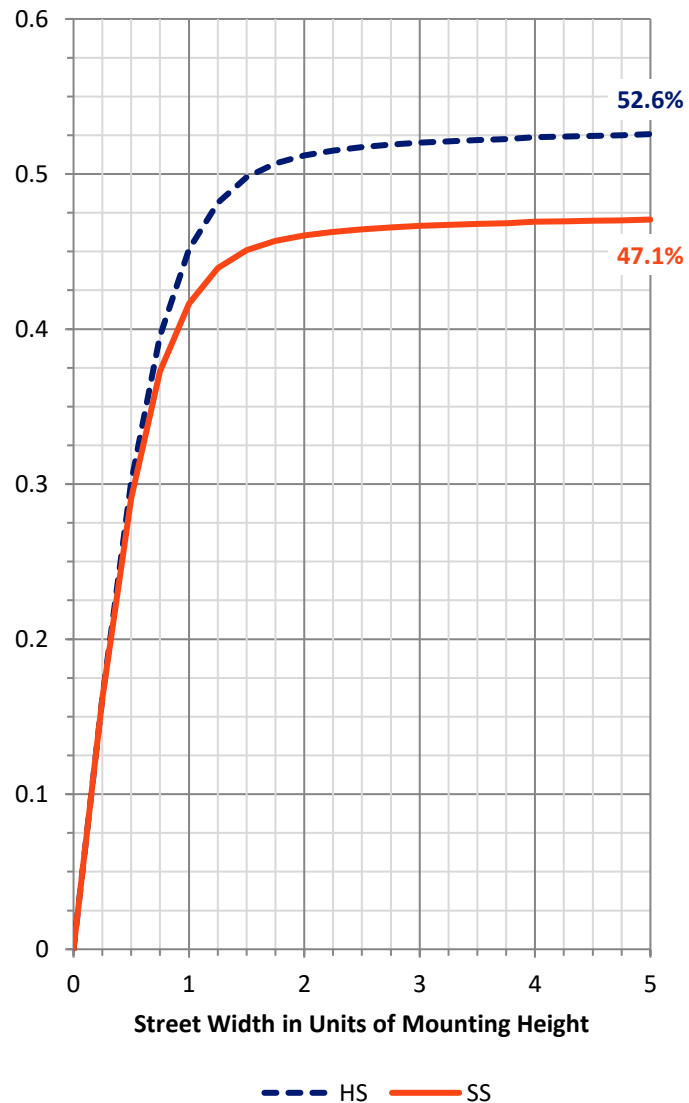
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	9761.5	0.0	9761.5
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	8644.2	0.0	8644.2
	% Fixture	47.0	0.0	47.0
Total	Lumens	18405.7	0.0	18405.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	342.1	1.9
10°-20°	1080.7	5.9
20°-30°	1753.4	9.5
30°-40°	2185.2	11.9
40°-50°	2720.8	14.8
50°-60°	3355.5	18.2
60°-70°	4167.3	22.6
70°-80°	2560.6	13.9
80°-90°	240.0	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°	18405.7	100.0
0°-180°	18405.7	100.0

Coefficient of Utilization



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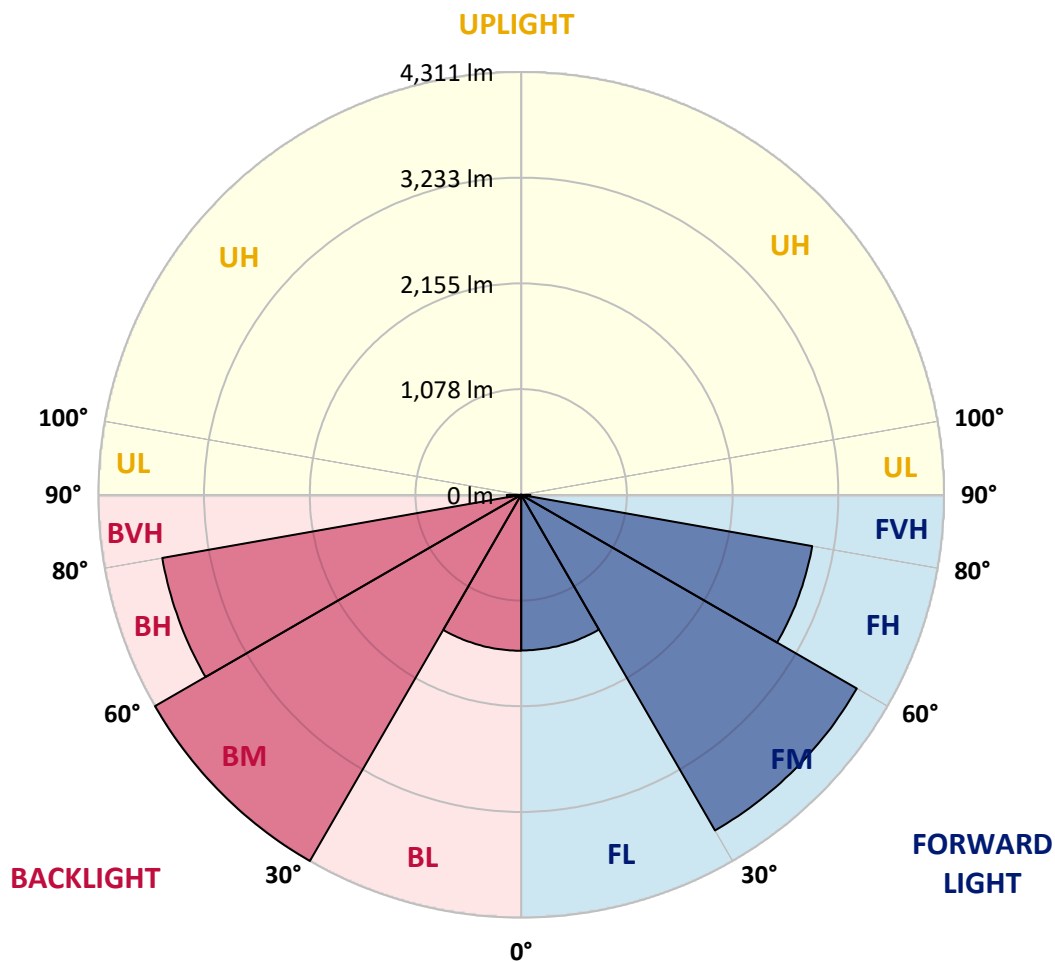
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1586.5	8.6			
FM	(30°-60°)	3951.0	21.5			
FH	(60°-80°)	3012.8	16.4			G2/5000
FVH	(80°-90°)	94.0	0.5			G1/100
BL	(0°-30°)	1589.8	8.6	B3/2500		
BM	(30°-60°)	4310.6	23.4	B3/5000		
BH	(60°-80°)	3715.1	20.2	B4/5000		G4/5000
BVH	(80°-90°)	146.0	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°	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3
2.5°	3551.9	3542.4	3550.7	3551.9	3550.7	3550.7	3540.0	3537.7	3523.5	3527.0	3525.9
5°	3600.3	3596.8	3602.7	3605.0	3607.4	3602.7	3594.4	3590.8	3581.4	3577.8	3576.7
7.5°	3645.2	3639.3	3648.7	3657.0	3662.9	3664.1	3665.3	3659.4	3659.4	3654.6	3654.6
10°	3683.0	3678.3	3693.6	3704.3	3723.2	3733.8	3745.6	3753.9	3758.6	3759.8	3758.6
12.5°	3699.5	3696.0	3720.8	3752.7	3788.2	3813.0	3842.5	3863.8	3869.7	3868.5	3874.4
15°	3671.2	3673.6	3711.4	3774.0	3849.6	3912.2	3953.6	3971.3	3976.0	3978.4	3979.6
17.5°	3594.4	3599.1	3653.5	3755.1	3887.4	4000.9	4062.3	4062.3	4052.8	4052.8	4051.7
20°	3471.5	3476.2	3547.1	3693.6	3888.6	4062.3	4149.7	4132.0	4096.6	4089.5	4082.4
22.5°	3301.4	3320.3	3398.2	3568.4	3837.8	4080.0	4204.1	4178.1	4122.6	4107.2	4096.6
25°	3108.8	3106.4	3199.7	3391.2	3714.9	4037.5	4219.4	4214.7	4155.6	4139.1	4120.2
27.5°	2889.0	2896.1	2982.3	3176.1	3527.0	3914.6	4193.5	4256.1	4207.6	4191.1	4173.4
30°	2663.3	2670.4	2751.9	2977.6	3313.2	3738.5	4140.3	4296.3	4277.3	4264.3	4252.5
32.5°	2436.4	2438.8	2535.7	2777.9	3132.4	3528.2	4059.9	4332.9	4358.9	4353.0	4348.2
35°	2223.7	2226.1	2331.3	2577.0	2954.0	3348.6	3963.0	4386.1	4469.9	4477.0	4481.8
37.5°	2017.0	2020.5	2128.0	2385.6	2777.9	3212.7	3855.5	4467.6	4625.9	4651.9	4656.6
40°	1811.4	1814.9	1917.7	2190.7	2599.5	3093.4	3772.8	4582.2	4836.2	4871.7	4908.3
42.5°	1615.2	1628.2	1715.7	1976.8	2401.0	2945.7	3737.4	4721.6	5085.6	5141.1	5182.4
45°	1432.1	1433.3	1532.5	1777.1	2165.8	2746.0	3713.7	4880.0	5364.4	5448.3	5505.0
47.5°	1235.9	1250.1	1354.1	1591.6	1946.1	2499.1	3638.1	5065.5	5668.1	5766.1	5880.8
50°	1045.7	1065.8	1166.2	1401.4	1745.2	2243.8	3434.9	5282.9	6009.6	6137.2	6269.5
52.5°	862.6	861.4	967.7	1212.3	1543.2	2027.6	3105.2	5510.9	6404.2	6541.3	6684.2
55°	652.2	652.2	757.4	980.7	1324.6	1835.0	2751.9	5652.7	6770.5	6935.9	7091.9
57.5°	447.8	459.6	558.9	751.5	1096.5	1658.9	2481.3	5571.2	7050.5	7256.1	7441.6
60°	332.0	343.8	417.1	540.0	857.8	1451.0	2278.1	5187.2	7219.5	7492.4	7733.5
62.5°	287.1	295.4	365.1	432.5	618.0	1230.0	2098.5	4699.2	7462.9	7836.3	8171.9
65°	256.4	264.7	334.4	373.4	483.3	989.0	1998.1	4420.3	7753.6	8324.3	8811.1
67.5°	237.5	247.0	306.0	334.4	421.8	894.5	1920.1	4355.3	7751.2	8443.6	9065.1
69°	228.0	235.1	283.6	314.3	407.6	866.1	1751.1	4072.9	7239.6	7982.8	8606.7
70°	222.1	229.2	270.6	301.3	402.9	815.3	1595.1	3699.5	6657.1	7405.0	8038.3
72.5°	203.2	210.3	241.0	269.4	335.6	544.7	1111.9	2367.9	4757.1	5291.1	6015.5
75°	179.6	187.9	211.5	235.1	254.0	315.5	641.6	1228.9	2720.0	3125.3	3770.4
77.5°	146.5	154.8	179.6	217.4	215.0	239.9	417.1	755.0	1273.8	1579.8	1818.5
80°	120.5	126.4	147.7	219.8	176.1	200.9	337.9	619.2	896.8	991.4	1048.1
82.5°	80.3	88.6	114.6	172.5	134.7	143.0	252.9	579.0	758.6	831.8	900.4
85°	37.8	41.4	69.7	92.2	81.5	76.8	144.2	408.8	564.8	599.1	625.1
87.5°	0.0	0.0	3.5	7.1	10.6	10.6	26.0	86.3	158.3	191.4	189.1
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°	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3
2.5°	3521.1	3522.3	3521.1	3521.1	3519.9	3517.6	3517.6	3515.2	3516.4	3515.2	3517.6
5°	3575.5	3575.5	3571.9	3569.6	3573.1	3569.6	3570.8	3564.8	3564.8	3561.3	3556.6
7.5°	3653.5	3653.5	3654.6	3647.6	3652.3	3653.5	3649.9	3647.6	3645.2	3639.3	3640.5
10°	3757.4	3757.4	3761.0	3751.5	3756.3	3758.6	3759.8	3759.8	3757.4	3746.8	3748.0
12.5°	3873.2	3870.9	3872.1	3867.3	3872.1	3874.4	3876.8	3874.4	3874.4	3872.1	3870.9
15°	3978.4	3977.2	3979.6	3976.0	3977.2	3979.6	3986.7	3985.5	3984.3	3977.2	3977.2
17.5°	4050.5	4046.9	4044.6	4043.4	4043.4	4042.2	4043.4	4043.4	4039.8	4038.7	4038.7
20°	4077.7	4068.2	4062.3	4058.8	4054.0	4051.7	4049.3	4050.5	4048.1	4044.6	4045.8
22.5°	4082.4	4069.4	4057.6	4046.9	4037.5	4031.6	4025.7	4023.3	4017.4	4013.9	4013.9
25°	4104.8	4084.7	4065.8	4048.1	4033.9	4020.9	4007.9	3998.5	3991.4	3983.1	3980.8
27.5°	4154.5	4133.2	4110.7	4088.3	4069.4	4043.4	4025.7	4006.8	3990.2	3977.2	3967.8
30°	4231.3	4210.0	4187.5	4161.6	4136.7	4109.6	4080.0	4057.6	4033.9	4007.9	3993.8
32.5°	4332.9	4318.7	4296.3	4271.4	4249.0	4220.6	4185.2	4150.9	4128.5	4097.7	4075.3
35°	4478.2	4461.7	4454.6	4443.9	4421.5	4403.8	4364.8	4332.9	4311.6	4269.1	4252.5
37.5°	4676.7	4675.5	4681.4	4677.9	4681.4	4659.0	4641.3	4640.1	4609.4	4568.0	4527.8
40°	4947.3	4961.5	4993.4	5015.8	5037.1	5039.5	5064.3	5038.3	5041.8	5035.9	4994.6
42.5°	5255.7	5304.1	5342.0	5408.1	5458.9	5506.2	5538.1	5581.8	5614.9	5644.4	5651.5
45°	5599.5	5671.6	5759.1	5818.1	5917.4	5996.6	6105.3	6189.2	6276.6	6362.8	6393.6
47.5°	5972.9	6062.7	6159.6	6269.5	6394.8	6518.8	6686.6	6815.4	6956.0	7073.0	7177.0
50°	6385.3	6478.6	6608.6	6735.0	6907.6	7050.5	7270.3	7439.3	7666.1	7822.1	7956.8
52.5°	6815.4	6932.4	7077.7	7217.1	7393.2	7576.3	7820.9	8070.2	8343.2	8579.5	8775.6
55°	7236.0	7380.2	7519.6	7682.7	7877.6	8090.3	8366.8	8695.3	9035.6	9306.2	9566.1
57.5°	7610.6	7777.2	7941.4	8106.9	8306.6	8553.5	8864.3	9218.7	9608.7	9969.1	10325.9
60°	7958.0	8157.7	8358.5	8565.3	8794.6	9099.4	9472.8	9908.8	10413.3	10906.1	11372.8
62.5°	8507.4	8769.7	9019.1	9286.1	9562.6	9920.6	10361.3	10933.2	11512.2	12127.8	12606.4
65°	9251.8	9620.5	9946.6	10292.8	10650.8	11129.4	11656.4	12340.5	13170.0	13800.9	14569.0
67.5°	9621.7	10107.3	10526.8	10912.0	11355.1	11838.3	12464.6	13274.0	14159.0	15073.5	15930.2
69°	9186.8	9687.8	10152.2	10583.5	11031.3	11500.4	12155.0	12985.6	13921.5	14910.5	15747.0
70°	8623.2	9124.2	9619.3	10110.8	10519.7	10976.9	11633.9	12490.6	13425.2	14453.2	15282.7
72.5°	6606.3	7208.9	7656.7	8117.5	8591.3	8978.9	9737.5	10459.4	11433.0	12476.4	13389.7
75°	4226.5	4780.7	5269.9	5662.2	6125.3	6589.7	7149.8	7952.1	8561.8	9418.4	10159.3
77.5°	2171.8	2336.0	2807.5	2948.1	3269.5	3522.3	3830.7	4031.6	4527.8	4633.0	5070.2
80°	1029.2	927.5	873.2	823.6	837.7	831.8	807.0	773.9	815.3	797.6	790.5
82.5°	896.8	799.9	638.1	542.3	469.1	398.2	342.7	314.3	317.8	327.3	330.8
85°	628.6	590.8	460.8	349.7	272.9	211.5	170.1	163.1	167.8	180.8	176.1
87.5°	182.0	190.2	167.8	117.0	81.5	59.1	46.1	52.0	49.6	48.4	50.8
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°	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3
2.5°	3517.6	3516.4	3512.9	3509.3	3509.3	3507.0	3509.3	3510.5	3509.3	3509.3	3507.0
5°	3557.8	3558.9	3562.5	3555.4	3554.2	3555.4	3550.7	3549.5	3549.5	3549.5	3544.8
7.5°	3634.6	3638.1	3638.1	3633.4	3632.2	3635.7	3628.7	3626.3	3622.7	3621.6	3620.4
10°	3749.2	3752.7	3746.8	3743.3	3739.7	3744.5	3738.5	3738.5	3735.0	3731.5	3730.3
12.5°	3876.8	3874.4	3872.1	3874.4	3870.9	3870.9	3867.3	3865.0	3863.8	3862.6	3860.2
15°	3976.0	3984.3	3984.3	3986.7	3984.3	3984.3	3979.6	3980.8	3978.4	3977.2	3978.4
17.5°	4039.8	4042.2	4048.1	4051.7	4051.7	4052.8	4050.5	4052.8	4050.5	4050.5	4055.2
20°	4048.1	4050.5	4056.4	4062.3	4065.8	4068.2	4068.2	4071.7	4074.1	4076.5	4082.4
22.5°	4015.0	4018.6	4025.7	4036.3	4042.2	4044.6	4049.3	4055.2	4061.1	4065.8	4074.1
25°	3980.8	3981.9	3989.0	3999.7	4006.8	4012.7	4020.9	4028.0	4036.3	4045.8	4055.2
27.5°	3961.9	3960.7	3966.6	3977.2	3983.1	3991.4	3998.5	4009.1	4018.6	4030.4	4038.7
30°	3978.4	3969.0	3970.1	3974.9	3979.6	3985.5	3993.8	4003.2	4013.9	4024.5	4033.9
32.5°	4051.7	4030.4	4016.2	4012.7	4013.9	4015.0	4019.8	4025.7	4033.9	4042.2	4045.8
35°	4210.0	4173.4	4154.5	4139.1	4126.1	4115.5	4117.8	4116.7	4116.7	4123.7	4115.5
37.5°	4511.3	4465.2	4445.1	4418.0	4402.6	4363.6	4353.0	4350.6	4335.2	4335.2	4317.5
40°	4983.9	4956.8	4941.4	4916.6	4842.1	4851.6	4798.4	4799.6	4755.9	4760.6	4729.9
42.5°	5656.3	5659.8	5640.9	5624.4	5566.5	5540.5	5490.8	5419.9	5364.4	5363.2	5301.8
45°	6433.7	6476.3	6416.0	6437.3	6386.5	6316.8	6258.9	6167.9	6081.6	6054.5	5991.8
47.5°	7246.7	7316.4	7270.3	7278.6	7253.8	7154.5	7076.5	6964.3	6852.0	6776.4	6738.6
50°	8115.1	8161.2	8160.0	8137.6	8125.8	8028.9	7903.6	7818.6	7735.9	7634.2	7601.2
52.5°	8902.1	9009.6	9081.7	9065.1	9030.9	8973.0	8861.9	8788.6	8666.9	8652.8	8666.9
55°	9744.6	9884.0	9957.2	10045.9	10047.0	10036.4	9990.3	9963.1	9849.7	9862.7	9846.2
57.5°	10542.1	10746.5	10858.8	11047.8	11112.8	11199.1	11167.2	11202.6	11134.1	11179.0	11166.0
60°	11623.3	11906.9	12093.5	12352.3	12472.8	12689.1	12731.6	12757.6	12795.4	12887.6	12835.6
62.5°	12983.3	13399.2	13786.8	14138.9	14254.7	14579.6	14632.8	14836.0	14846.6	14909.3	14794.7
65°	15209.4	15716.3	16142.8	16564.7	16808.1	17188.6	17342.2	17736.8	17616.3	17667.1	17422.5
67.5°	16667.5	17257.1	17829.0	18228.3	18632.5	19021.2	19301.2	19556.5	19554.1	19504.5	19287.0
69°	16538.7	17195.6	17759.3	18294.5	18719.9	19119.3	19456.0	19621.4	19679.3	19607.3	19452.5
70°	16093.2	16767.9	17458.0	17898.7	18361.9	18800.2	19147.6	19328.4	19368.6	19317.8	19184.3
72.5°	14034.9	14682.4	15443.3	15843.9	16404.0	16720.6	17199.2	17433.1	17474.5	17409.5	17322.1
75°	10953.3	11070.3	11845.4	12100.6	12507.1	12872.2	13170.0	13094.4	13305.9	13264.5	13231.4
77.5°	5160.0	4848.1	5350.2	5584.2	5461.3	5134.0	5610.2	5266.3	5494.4	5791.0	5715.3
80°	850.7	848.4	870.8	920.5	861.4	914.5	913.4	887.4	889.7	953.5	920.5
82.5°	327.3	334.4	337.9	347.4	347.4	348.6	354.5	361.6	355.7	367.5	365.1
85°	177.2	189.1	178.4	170.1	176.1	179.6	184.3	190.2	184.3	202.1	192.6
87.5°	46.1	48.4	42.5	42.5	41.4	37.8	37.8	40.2	43.7	52.0	56.7
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-8030

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3
2.5°	3502.2	3503.4	3504.6	3501.0	3498.7	3498.7	3497.5	3495.1	3494.0	3494.0	3494.0
5°	3542.4	3544.8	3538.9	3537.7	3535.3	3532.9	3532.9	3530.6	3531.8	3531.8	3525.9
7.5°	3622.7	3619.2	3612.1	3607.4	3612.1	3603.8	3600.3	3602.7	3600.3	3601.5	3599.1
10°	3730.3	3730.3	3722.0	3726.7	3720.8	3711.4	3714.9	3711.4	3709.0	3700.7	3705.5
12.5°	3863.8	3860.2	3855.5	3844.9	3841.3	3840.2	3829.5	3830.7	3827.2	3824.8	3821.3
15°	3980.8	3979.6	3969.0	3963.0	3961.9	3957.1	3952.4	3950.0	3944.1	3943.0	3940.6
17.5°	4058.8	4055.2	4050.5	4044.6	4044.6	4037.5	4035.1	4029.2	4028.0	4024.5	4020.9
20°	4084.7	4085.9	4081.2	4076.5	4074.1	4069.4	4065.8	4061.1	4058.8	4054.0	4050.5
22.5°	4078.8	4078.8	4074.1	4072.9	4068.2	4061.1	4056.4	4050.5	4044.6	4038.7	4031.6
25°	4059.9	4058.8	4055.2	4049.3	4043.4	4032.8	4023.3	4013.9	4005.6	3998.5	3987.9
27.5°	4043.4	4041.0	4033.9	4025.7	4013.9	4002.0	3984.3	3971.3	3960.7	3951.2	3939.4
30°	4037.5	4029.2	4018.6	4005.6	3991.4	3973.7	3954.8	3938.2	3926.4	3917.0	3912.2
32.5°	4044.6	4033.9	4017.4	4000.9	3983.1	3961.9	3943.0	3928.8	3918.1	3915.8	3915.8
35°	4109.6	4091.8	4069.4	4045.8	4023.3	4005.6	3992.6	3991.4	3984.3	3992.6	4005.6
37.5°	4299.8	4284.4	4250.2	4219.4	4204.1	4195.8	4184.0	4186.4	4169.8	4195.8	4217.1
40°	4703.9	4685.0	4644.8	4620.0	4589.3	4559.7	4583.4	4576.3	4588.1	4583.4	4605.8
42.5°	5293.5	5274.6	5210.8	5201.3	5188.3	5176.5	5176.5	5167.1	5162.4	5178.9	5160.0
45°	6010.7	5972.9	5949.3	5977.7	5938.7	5950.5	5991.8	5936.3	5949.3	5872.5	5801.6
47.5°	6755.1	6751.6	6745.7	6779.9	6785.9	6803.6	6826.0	6769.3	6666.5	6608.6	6464.5
50°	7611.8	7648.4	7662.6	7695.7	7709.9	7722.9	7687.4	7603.5	7429.8	7276.2	7106.1
52.5°	8652.8	8589.0	8676.4	8708.3	8694.1	8642.1	8514.5	8411.7	8171.9	7950.9	7687.4
55°	9865.1	9880.4	9819.0	9794.2	9745.7	9601.6	9425.5	9193.9	8890.3	8602.0	8268.7
57.5°	11099.8	11093.9	10998.2	10863.5	10699.3	10525.6	10263.3	9931.2	9576.8	9189.2	8786.3
60°	12601.6	12595.7	12401.9	12171.5	11937.6	11657.5	11246.3	10847.0	10372.0	9862.7	9383.0
62.5°	14574.9	14320.8	14130.6	13786.8	13425.2	13058.9	12502.4	11971.8	11337.3	10694.5	10134.5
65°	17103.5	16685.2	16469.0	15970.3	15410.3	14838.4	14272.4	13575.3	12721.0	11943.5	11259.3
67.5°	18973.9	18591.1	18195.3	17697.8	17083.4	16445.3	15670.2	14792.3	13822.2	12950.2	12204.6
69°	19138.2	18780.1	18305.2	17806.5	17225.2	16531.6	15685.6	14702.5	13719.4	12836.8	12103.0
70°	18888.9	18508.4	18008.6	17489.9	16840.0	16185.4	15299.2	14274.8	13290.5	12405.5	11689.4
72.5°	17029.0	16658.0	16126.3	15506.0	14839.6	14279.5	13438.2	12370.0	11299.5	10481.9	9924.2
75°	12949.0	12867.5	12490.6	12129.0	11604.4	10979.3	10210.1	9491.7	8613.8	7748.8	7229.0
77.5°	5525.1	5713.0	5909.1	5937.5	5956.4	5763.8	5644.4	5463.7	4876.4	4609.4	4334.1
80°	1020.9	912.2	973.6	980.7	1020.9	1042.2	1120.1	1328.1	1351.7	1402.5	1465.2
82.5°	362.7	368.7	378.1	381.7	385.2	399.4	452.5	542.3	623.9	730.2	872.0
85°	205.6	209.1	217.4	224.5	229.2	243.4	272.9	326.1	406.5	528.2	716.0
87.5°	62.6	70.9	75.6	85.1	88.6	91.0	104.0	139.4	179.6	265.9	387.6
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-8030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3	3496.3
2.5°	3494.0	3492.8	3490.4	3488.0	3489.2	3486.9	3479.8	3477.4	3469.1	3463.2	3458.5
5°	3525.9	3524.7	3519.9	3521.1	3519.9	3508.1	3499.9	3485.7	3477.4	3464.4	3459.7
7.5°	3592.0	3590.8	3582.6	3586.1	3583.8	3566.0	3551.9	3529.4	3517.6	3501.0	3488.0
10°	3691.3	3691.3	3681.8	3683.0	3683.0	3659.4	3634.6	3596.8	3569.6	3543.6	3521.1
12.5°	3811.8	3807.1	3805.9	3800.0	3795.3	3769.3	3731.5	3680.6	3629.8	3587.3	3556.6
15°	3933.5	3926.4	3922.9	3915.8	3909.9	3886.2	3835.4	3772.8	3704.3	3635.7	3584.9
17.5°	4012.7	4007.9	4000.9	3998.5	3990.2	3966.6	3931.1	3868.5	3783.4	3687.7	3610.9
20°	4042.2	4033.9	4029.2	4024.5	4019.8	4003.2	4003.2	3963.0	3868.5	3733.8	3616.8
22.5°	4023.3	4018.6	4011.5	4007.9	4003.2	4005.6	4051.7	4045.8	3937.0	3744.5	3574.3
25°	3979.6	3973.7	3967.8	3967.8	3966.6	3991.4	4102.5	4117.8	3957.1	3692.5	3481.0
27.5°	3934.7	3926.4	3928.8	3930.0	3935.9	3989.0	4158.0	4136.7	3902.8	3567.2	3320.3
30°	3907.5	3907.5	3913.4	3922.9	3934.7	4028.0	4201.7	4094.2	3762.2	3378.2	3107.6
32.5°	3919.3	3931.1	3944.1	3967.8	3985.5	4114.3	4217.1	3984.3	3557.8	3144.2	2885.4
35°	4024.5	4038.7	4063.5	4100.1	4121.4	4238.4	4217.1	3823.6	3320.3	2943.3	2656.2
37.5°	4253.7	4267.9	4297.4	4325.8	4347.1	4394.3	4199.4	3619.2	3121.8	2735.4	2450.6
40°	4622.4	4642.5	4663.7	4659.0	4644.8	4598.7	4163.9	3429.0	2938.6	2553.4	2248.6
42.5°	5141.1	5122.2	5119.8	5073.7	5026.5	4829.1	4137.9	3304.9	2781.5	2362.0	2047.7
45°	5740.2	5663.3	5584.2	5522.7	5450.7	5082.0	4130.8	3204.5	2607.8	2149.3	1829.1
47.5°	6342.8	6219.9	6066.3	5970.6	5853.6	5351.4	4152.1	3069.8	2384.4	1917.7	1624.7
50°	6933.6	6732.7	6542.4	6427.8	6295.5	5661.0	4186.4	2842.9	2117.4	1707.4	1438.0
52.5°	7480.6	7221.9	7026.9	6892.2	6730.3	6021.4	4155.6	2545.1	1885.8	1505.3	1260.8
55°	8000.5	7714.6	7512.5	7370.7	7180.5	6382.9	3933.5	2274.6	1664.9	1308.0	1061.1
57.5°	8455.4	8181.3	7971.0	7778.4	7617.7	6697.2	3495.1	2051.2	1452.2	1082.3	844.8
60°	8987.2	8678.8	8429.4	8223.8	8034.8	6859.1	3003.6	1852.7	1225.3	837.7	610.9
62.5°	9704.4	9349.9	9061.6	8826.5	8579.5	6894.6	2668.0	1654.2	972.4	606.2	444.3
65°	10767.8	10330.6	9970.2	9646.5	9312.1	6748.0	2502.6	1438.0	723.1	450.2	372.2
67.5°	11612.6	11158.9	10741.8	10325.9	9898.2	6476.3	2466.0	1238.3	555.3	382.8	334.4
69°	11509.8	11077.4	10694.5	10244.4	9770.5	6134.8	2429.3	1161.5	506.9	355.7	316.7
70°	11114.0	10704.0	10315.3	9949.0	9368.8	5754.3	2332.5	1119.0	488.0	342.7	303.7
72.5°	9391.3	8916.3	8539.3	8083.2	7472.4	4276.2	1768.8	905.1	447.8	313.1	274.1
75°	6849.7	6456.2	6080.4	5575.9	4981.6	2474.2	1101.2	517.5	328.5	283.6	248.1
77.5°	3999.7	3911.1	3548.3	3216.3	2627.9	1259.6	632.1	309.6	255.2	257.6	218.6
80°	1505.3	1603.4	1640.0	1525.4	1409.6	869.6	459.6	251.7	222.1	254.0	185.5
82.5°	1097.7	1273.8	1295.0	1240.7	1154.4	810.6	367.5	202.1	180.8	272.9	159.5
85°	915.7	1013.8	1029.2	972.4	944.1	686.5	256.4	141.8	132.3	196.1	119.3
87.5°	463.2	488.0	501.0	453.7	456.1	320.2	102.8	60.3	72.1	83.9	66.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P158028

CATALOG NUMBER: VST-E07-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	3496.3	3496.3
2.5°	3447.9	3455.0
5°	3452.6	3452.6
7.5°	3479.8	3479.8
10°	3509.3	3510.5
12.5°	3536.5	3535.3
15°	3557.8	3554.2
17.5°	3570.8	3567.2
20°	3557.8	3551.9
22.5°	3491.6	3475.0
25°	3371.1	3349.8
27.5°	3211.6	3197.4
30°	3003.6	2982.3
32.5°	2760.2	2749.6
35°	2527.4	2514.4
37.5°	2314.7	2311.2
40°	2135.1	2116.2
42.5°	1924.8	1916.5
45°	1710.9	1706.2
47.5°	1510.1	1505.3
50°	1324.6	1315.1
52.5°	1142.6	1127.2
55°	940.5	929.9
57.5°	721.9	712.5
60°	508.1	497.4
62.5°	361.6	349.7
65°	301.3	291.9
67.5°	272.9	262.3
69°	259.9	250.5
70°	251.7	244.6
72.5°	234.0	229.2
75°	213.9	210.3
77.5°	187.9	182.0
80°	157.2	151.2
82.5°	132.3	126.4
85°	88.6	80.3
87.5°	40.2	35.4
90°	0.0	0.0

(END OF REPORT)