

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: P158012

Luminaire Tested: **VST-E05-LED-E-U-RW-7060**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158012
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-E05-LED-E-U-RW-7060
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (105) 5700K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15983.7 lumens
Efficiency: N/A
Efficacy: 125.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B4 - U0 - G4

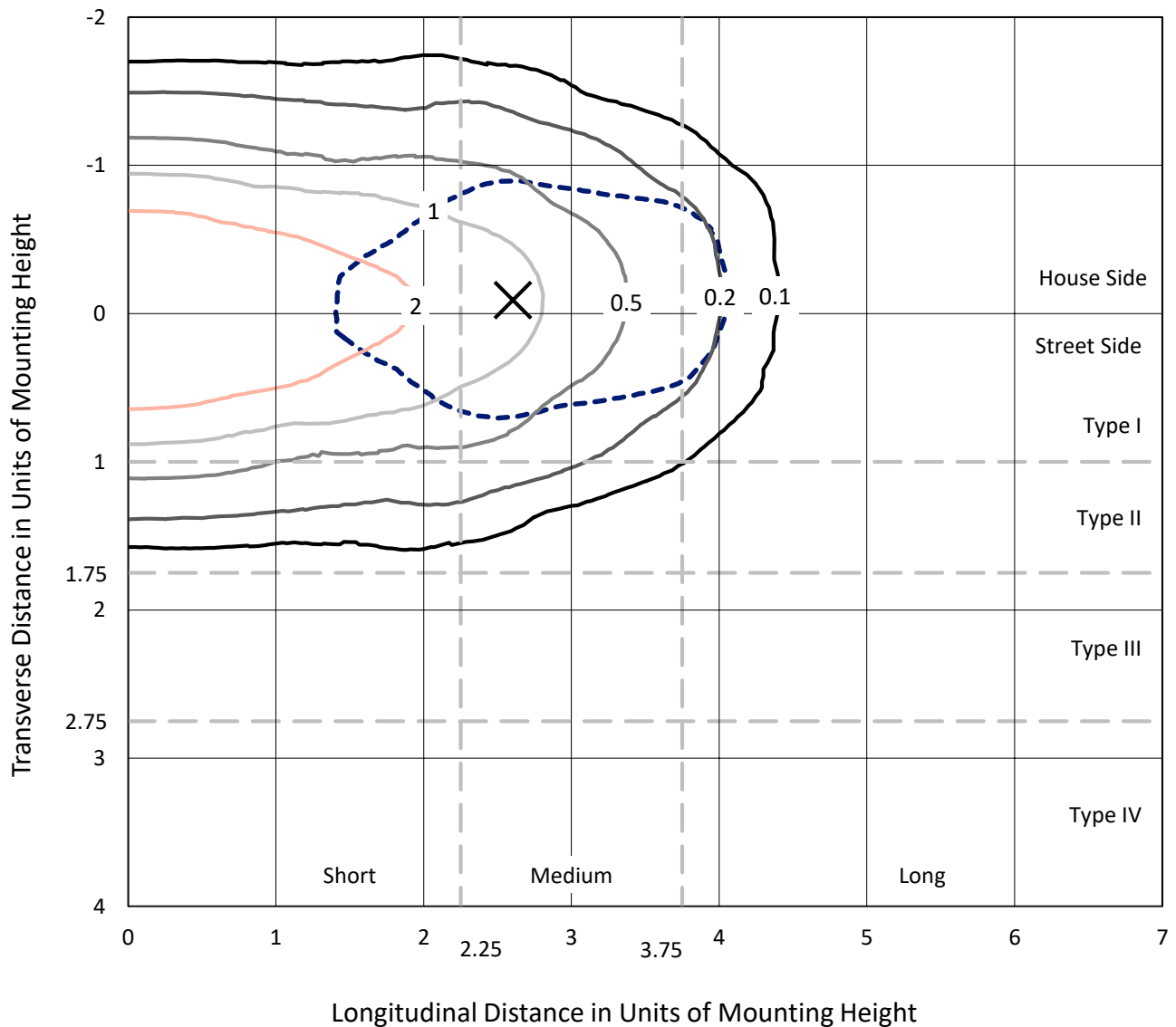
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

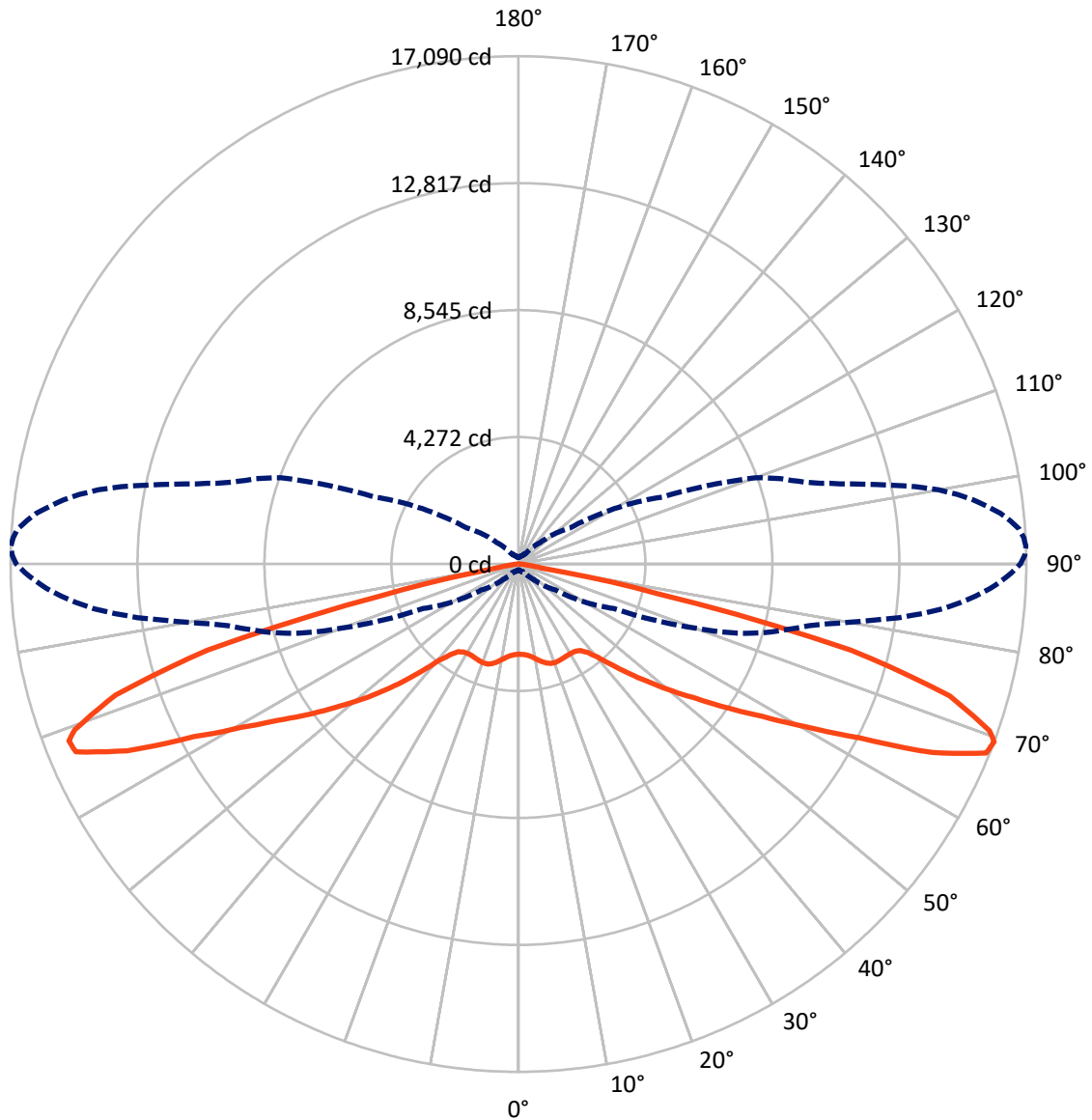
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 5 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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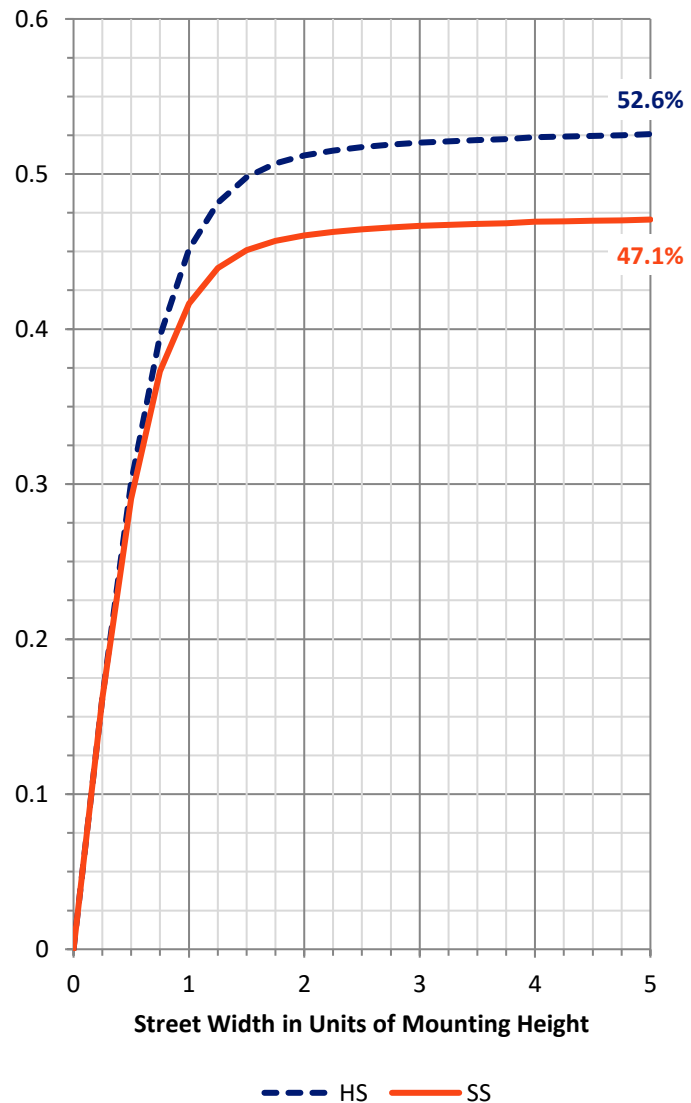
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8477.0	0.0	8477.0
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	7506.7	0.0	7506.7
	% Fixture	47.0	0.0	47.0
Total	Lumens	15983.7	0.0	15983.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	297.1	1.9
10°-20°	938.5	5.9
20°-30°	1522.7	9.5
30°-40°	1897.7	11.9
40°-50°	2362.8	14.8
50°-60°	2913.9	18.2
60°-70°	3618.9	22.6
70°-80°	2223.6	13.9
80°-90°	208.4	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°	15983.7	100.0
0°-180°	15983.7	100.0



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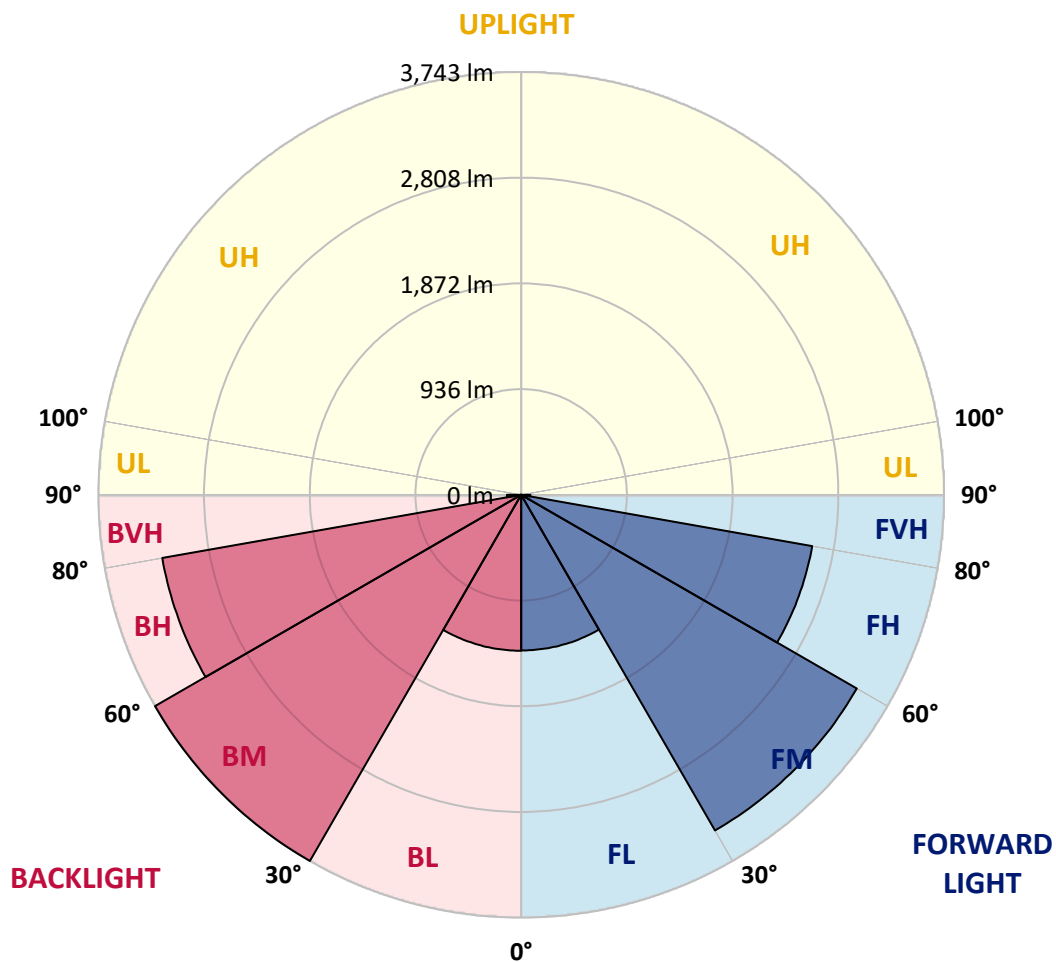
CATALOG NUMBER: VST-E05-LED-E-U-RW-7060

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1377.7	8.6			
FM	(30°-60°)	3431.1	21.5			
FH	(60°-80°)	2616.3	16.4			G2/5000
FVH	(80°-90°)	81.6	0.5			G1/100
BL	(0°-30°)	1380.6	8.6	B3/2500		
BM	(30°-60°)	3743.4	23.4	B3/5000		
BH	(60°-80°)	3226.2	20.2	B4/5000		G4/5000
BVH	(80°-90°)	126.8	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°	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2
2.5°	3084.5	3076.3	3083.4	3084.5	3083.4	3083.4	3074.2	3072.2	3059.8	3062.9	3061.9
5°	3126.5	3123.5	3128.6	3130.6	3132.7	3128.6	3121.4	3118.3	3110.1	3107.0	3106.0
7.5°	3165.5	3160.4	3168.6	3175.8	3180.9	3182.0	3183.0	3177.8	3177.8	3173.7	3173.7
10°	3198.4	3194.3	3207.6	3216.8	3233.3	3242.5	3252.8	3259.9	3264.0	3265.1	3264.0
12.5°	3212.7	3209.7	3231.2	3258.9	3289.7	3311.2	3336.9	3355.4	3360.5	3359.5	3364.6
15°	3188.1	3190.2	3223.0	3277.4	3343.1	3397.4	3433.3	3448.7	3452.8	3454.9	3455.9
17.5°	3121.4	3125.5	3172.7	3261.0	3375.9	3474.4	3527.8	3527.8	3519.5	3519.5	3518.5
20°	3014.7	3018.8	3080.4	3207.6	3376.9	3527.8	3603.7	3588.3	3557.5	3551.4	3545.2
22.5°	2866.9	2883.4	2951.1	3098.8	3332.8	3543.1	3650.9	3628.3	3580.1	3566.7	3557.5
25°	2699.7	2697.6	2778.7	2944.9	3226.1	3506.2	3664.2	3660.1	3608.8	3594.4	3578.0
27.5°	2508.8	2515.0	2589.9	2758.2	3062.9	3399.5	3641.6	3696.0	3654.0	3639.6	3624.2
30°	2312.8	2319.0	2389.8	2585.8	2877.2	3246.6	3595.5	3730.9	3714.5	3703.2	3693.0
32.5°	2115.8	2117.9	2202.0	2412.4	2720.2	3064.0	3525.7	3762.7	3785.3	3780.2	3776.1
35°	1931.1	1933.2	2024.5	2237.9	2565.3	2908.0	3441.6	3808.9	3881.8	3887.9	3892.0
37.5°	1751.6	1754.6	1848.0	2071.7	2412.4	2790.0	3348.2	3879.7	4017.2	4039.8	4043.9
40°	1573.0	1576.1	1665.4	1902.4	2257.4	2686.3	3276.4	3979.2	4199.8	4230.6	4262.4
42.5°	1402.7	1414.0	1489.9	1716.7	2085.0	2558.1	3245.6	4100.3	4416.4	4464.6	4500.5
45°	1243.6	1244.7	1330.9	1543.3	1880.9	2384.7	3225.0	4237.8	4658.5	4731.4	4780.6
47.5°	1073.3	1085.6	1175.9	1382.2	1690.0	2170.2	3159.4	4398.9	4922.2	5007.4	5106.9
50°	908.1	925.5	1012.8	1217.0	1515.6	1948.6	2982.9	4587.7	5218.8	5329.6	5444.5
52.5°	749.1	748.0	840.4	1052.8	1340.1	1760.8	2696.6	4785.8	5561.5	5680.5	5804.7
55°	566.4	566.4	657.7	851.7	1150.3	1593.5	2389.8	4908.9	5879.6	6023.2	6158.7
57.5°	388.9	399.2	485.3	652.6	952.2	1440.7	2154.8	4838.1	6122.8	6301.3	6462.4
60°	288.3	298.6	362.2	468.9	745.0	1260.1	1978.3	4504.6	6269.5	6506.5	6715.9
62.5°	249.3	256.5	317.1	375.6	536.7	1068.2	1822.4	4080.8	6480.9	6805.1	7096.5
65°	222.7	229.8	290.4	324.2	419.7	858.9	1735.1	3838.7	6733.3	7228.9	7651.7
67.5°	206.2	214.5	265.8	290.4	366.3	776.8	1667.4	3782.2	6731.3	7332.5	7872.3
69°	198.0	204.2	246.3	272.9	354.0	752.1	1520.7	3537.0	6286.9	6932.4	7474.2
70°	192.9	199.1	235.0	261.7	349.9	708.0	1385.2	3212.7	5781.1	6430.6	6980.6
72.5°	176.5	182.6	209.3	234.0	291.4	473.0	965.6	2056.3	4131.1	4594.9	5223.9
75°	156.0	163.2	183.7	204.2	220.6	274.0	557.2	1067.1	2362.1	2714.0	3274.3
77.5°	127.2	134.4	156.0	188.8	186.8	208.3	362.2	655.7	1106.1	1371.9	1579.2
80°	104.7	109.8	128.3	190.9	152.9	174.4	293.5	537.7	778.8	860.9	910.2
82.5°	69.8	77.0	99.5	149.8	117.0	124.2	219.6	502.8	658.8	722.4	781.9
85°	32.8	35.9	60.5	80.0	70.8	66.7	125.2	355.0	490.5	520.2	542.8
87.5°	0.0	0.0	3.1	6.2	9.2	9.2	22.6	74.9	137.5	166.2	164.2
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°	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2
2.5°	3057.8	3058.8	3057.8	3057.8	3056.8	3054.7	3054.7	3052.7	3053.7	3052.7	3054.7
5°	3105.0	3105.0	3101.9	3099.9	3102.9	3099.9	3100.9	3095.8	3095.8	3092.7	3088.6
7.5°	3172.7	3172.7	3173.7	3167.6	3171.7	3172.7	3169.6	3167.6	3165.5	3160.4	3161.4
10°	3263.0	3263.0	3266.1	3257.9	3262.0	3264.0	3265.1	3265.1	3263.0	3253.8	3254.8
12.5°	3363.6	3361.5	3362.5	3358.4	3362.5	3364.6	3366.7	3364.6	3364.6	3362.5	3361.5
15°	3454.9	3453.9	3455.9	3452.8	3453.9	3455.9	3462.1	3461.1	3460.0	3453.9	3453.9
17.5°	3517.5	3514.4	3512.4	3511.3	3511.3	3510.3	3511.3	3511.3	3508.3	3507.2	3507.2
20°	3541.1	3532.9	3527.8	3524.7	3520.6	3518.5	3516.5	3517.5	3515.4	3512.4	3513.4
22.5°	3545.2	3533.9	3523.6	3514.4	3506.2	3501.1	3495.9	3493.9	3488.8	3485.7	3485.7
25°	3564.7	3547.2	3530.8	3515.4	3503.1	3491.8	3480.5	3472.3	3466.2	3459.0	3456.9
27.5°	3607.8	3589.3	3569.8	3550.3	3533.9	3511.3	3495.9	3479.5	3465.2	3453.9	3445.7
30°	3674.5	3656.0	3636.5	3613.9	3592.4	3568.8	3543.1	3523.6	3503.1	3480.5	3468.2
32.5°	3762.7	3750.4	3730.9	3709.4	3689.9	3665.2	3634.5	3604.7	3585.2	3558.5	3539.0
35°	3888.9	3874.6	3868.4	3859.2	3839.7	3824.3	3790.4	3762.7	3744.3	3707.3	3693.0
37.5°	4061.3	4060.3	4065.4	4062.4	4065.4	4045.9	4030.5	4029.5	4002.8	3966.9	3932.0
40°	4296.3	4308.6	4336.3	4355.8	4374.3	4376.3	4397.9	4375.3	4378.4	4373.3	4337.3
42.5°	4564.1	4606.2	4639.0	4696.5	4740.6	4781.7	4809.4	4847.3	4876.1	4901.7	4907.9
45°	4862.7	4925.3	5001.2	5052.5	5138.7	5207.5	5301.9	5374.7	5450.7	5525.6	5552.3
47.5°	5187.0	5264.9	5349.1	5444.5	5553.3	5661.0	5806.7	5918.6	6040.7	6142.3	6232.6
50°	5545.1	5626.1	5739.0	5848.8	5998.6	6122.8	6313.6	6460.4	6657.4	6792.8	6909.8
52.5°	5918.6	6020.2	6146.4	6267.5	6420.3	6579.4	6791.8	7008.3	7245.3	7450.6	7620.9
55°	6283.9	6409.1	6530.1	6671.7	6841.0	7025.7	7265.9	7551.1	7846.6	8081.6	8307.3
57.5°	6609.1	6753.8	6896.5	7040.1	7213.5	7428.0	7697.8	8005.7	8344.3	8657.3	8967.1
60°	6910.8	7084.2	7258.7	7438.2	7637.3	7902.0	8226.3	8604.9	9043.1	9471.0	9876.3
62.5°	7388.0	7615.8	7832.3	8064.2	8304.3	8615.2	8997.9	9494.6	9997.3	10531.9	10947.5
65°	8034.4	8354.6	8637.8	8938.4	9249.3	9664.9	10122.5	10716.6	11437.0	11984.9	12651.9
67.5°	8355.6	8777.3	9141.6	9476.1	9860.9	10280.6	10824.4	11527.3	12295.8	13090.0	13834.0
69°	7978.0	8413.0	8816.3	9190.8	9579.7	9987.1	10555.5	11276.9	12089.6	12948.4	13674.9
70°	7488.5	7923.6	8353.5	8780.4	9135.4	9532.5	10103.0	10847.0	11658.6	12551.3	13271.6
72.5°	5737.0	6260.3	6649.2	7049.3	7460.8	7797.4	8456.1	9083.1	9928.6	10834.6	11627.8
75°	3670.4	4151.6	4576.4	4917.1	5319.3	5722.6	6209.0	6905.7	7435.2	8179.1	8822.5
77.5°	1886.0	2028.6	2438.0	2560.1	2839.2	3058.8	3326.6	3501.1	3932.0	4023.4	4403.0
80°	893.7	805.5	758.3	715.2	727.5	722.4	700.8	672.1	708.0	692.6	686.5
82.5°	778.8	694.7	554.1	471.0	407.4	345.8	297.6	272.9	276.0	284.2	287.3
85°	545.9	513.1	400.2	303.7	237.0	183.7	147.8	141.6	145.7	157.0	152.9
87.5°	158.0	165.2	145.7	101.6	70.8	51.3	40.0	45.1	43.1	42.1	44.1
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°	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2
2.5°	3054.7	3053.7	3050.6	3047.5	3047.5	3045.5	3047.5	3048.6	3047.5	3047.5	3045.5
5°	3089.6	3090.6	3093.7	3087.6	3086.5	3087.6	3083.4	3082.4	3079.3	3082.4	3078.3
7.5°	3156.3	3159.4	3159.4	3155.3	3154.2	3157.3	3151.2	3149.1	3146.0	3145.0	3144.0
10°	3255.8	3258.9	3253.8	3250.7	3247.6	3251.7	3246.6	3246.6	3243.5	3240.4	3239.4
12.5°	3366.7	3364.6	3362.5	3364.6	3361.5	3361.5	3358.4	3356.4	3355.4	3354.3	3352.3
15°	3452.8	3460.0	3460.0	3462.1	3460.0	3460.0	3455.9	3456.9	3454.9	3453.9	3454.9
17.5°	3508.3	3510.3	3515.4	3518.5	3518.5	3519.5	3517.5	3519.5	3517.5	3517.5	3521.6
20°	3515.4	3517.5	3522.6	3527.8	3530.8	3532.9	3532.9	3536.0	3538.0	3540.1	3545.2
22.5°	3486.7	3489.8	3495.9	3505.2	3510.3	3512.4	3516.5	3521.6	3526.7	3530.8	3538.0
25°	3456.9	3458.0	3464.1	3473.4	3479.5	3484.7	3491.8	3498.0	3505.2	3513.4	3521.6
27.5°	3440.5	3439.5	3444.6	3453.9	3459.0	3466.2	3472.3	3481.6	3489.8	3500.0	3507.2
30°	3454.9	3446.7	3447.7	3451.8	3455.9	3461.1	3468.2	3476.4	3485.7	3494.9	3503.1
32.5°	3518.5	3500.0	3487.7	3484.7	3485.7	3486.7	3490.8	3495.9	3503.1	3510.3	3513.4
35°	3656.0	3624.2	3607.8	3594.4	3583.2	3573.9	3576.0	3575.0	3575.0	3581.1	3573.9
37.5°	3917.7	3877.7	3860.2	3836.6	3823.3	3789.4	3780.2	3778.1	3764.8	3764.8	3749.4
40°	4328.1	4304.5	4291.2	4269.6	4205.0	4213.2	4167.0	4168.0	4130.1	4134.2	4107.5
42.5°	4912.0	4915.0	4898.6	4884.3	4834.0	4811.4	4768.3	4706.7	4658.5	4657.5	4604.1
45°	5587.1	5624.1	5571.8	5590.2	5546.1	5485.6	5435.3	5356.3	5281.4	5257.8	5203.4
47.5°	6293.1	6353.6	6313.6	6320.8	6299.3	6213.1	6145.3	6047.9	5950.4	5884.7	5851.9
50°	7047.3	7087.3	7086.3	7066.8	7056.5	6972.4	6863.6	6789.7	6717.9	6629.7	6600.9
52.5°	7730.7	7824.1	7886.6	7872.3	7842.5	7792.2	7695.8	7632.2	7526.5	7514.2	7526.5
55°	8462.3	8583.4	8647.0	8723.9	8725.0	8715.7	8675.7	8652.1	8553.6	8564.9	8550.5
57.5°	9154.9	9332.4	9429.9	9594.1	9650.5	9725.4	9697.7	9728.5	9669.0	9708.0	9696.7
60°	10093.8	10340.1	10502.2	10726.9	10831.6	11019.3	11056.3	11078.9	11111.7	11191.7	11146.6
62.5°	11274.8	11636.0	11972.6	12278.4	12378.9	12661.1	12707.3	12883.8	12893.0	12947.4	12847.9
65°	13208.0	13648.2	14018.7	14385.0	14596.3	14926.8	15060.1	15402.9	15298.2	15342.3	15129.9
67.5°	14474.2	14986.3	15482.9	15829.7	16180.7	16518.2	16761.4	16983.1	16981.0	16937.9	16749.1
69°	14362.4	14932.9	15422.4	15887.2	16256.6	16603.4	16895.9	17039.5	17089.8	17027.2	16892.8
70°	13975.6	14561.5	15160.7	15543.4	15945.7	16326.4	16628.0	16785.0	16819.9	16775.8	16659.8
72.5°	12188.1	12750.4	13411.2	13759.0	14245.4	14520.4	14936.0	15139.2	15175.1	15118.6	15042.7
75°	9512.0	9613.6	10286.7	10508.3	10861.3	11178.4	11437.0	11371.3	11555.0	11519.1	11490.3
77.5°	4481.0	4210.1	4646.2	4849.4	4742.7	4458.4	4871.9	4573.4	4771.4	5028.9	4963.3
80°	738.8	736.7	756.2	799.3	748.0	794.2	793.2	770.6	772.7	828.1	799.3
82.5°	284.2	290.4	293.5	301.7	301.7	302.7	307.8	314.0	308.9	319.1	317.1
85°	153.9	164.2	154.9	147.8	152.9	156.0	160.1	165.2	160.1	175.5	167.3
87.5°	40.0	42.1	36.9	36.9	35.9	32.8	32.8	34.9	38.0	45.1	49.3
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-E05-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2
2.5°	3041.4	3042.4	3043.4	3040.4	3038.3	3038.3	3037.3	3035.2	3034.2	3034.2	3034.2
5°	3076.3	3078.3	3073.2	3072.2	3070.1	3068.1	3068.1	3066.0	3067.0	3067.0	3061.9
7.5°	3146.0	3143.0	3136.8	3132.7	3136.8	3129.6	3126.5	3128.6	3126.5	3127.6	3125.5
10°	3239.4	3239.4	3232.2	3236.3	3231.2	3223.0	3226.1	3223.0	3220.9	3213.8	3217.9
12.5°	3355.4	3352.3	3348.2	3338.9	3335.9	3334.8	3325.6	3326.6	3323.6	3321.5	3318.4
15°	3456.9	3455.9	3446.7	3441.6	3440.5	3436.4	3432.3	3430.3	3425.1	3424.1	3422.1
17.5°	3524.7	3521.6	3517.5	3512.4	3512.4	3506.2	3504.2	3499.0	3498.0	3494.9	3491.8
20°	3547.2	3548.3	3544.2	3540.1	3538.0	3533.9	3530.8	3526.7	3524.7	3520.6	3517.5
22.5°	3542.1	3542.1	3538.0	3537.0	3532.9	3526.7	3522.6	3517.5	3512.4	3507.2	3501.1
25°	3525.7	3524.7	3521.6	3516.5	3511.3	3502.1	3493.9	3485.7	3478.5	3472.3	3463.1
27.5°	3511.3	3509.3	3503.1	3495.9	3485.7	3475.4	3460.0	3448.7	3439.5	3431.3	3421.0
30°	3506.2	3499.0	3489.8	3478.5	3466.2	3450.8	3434.4	3420.0	3409.7	3401.5	3397.4
32.5°	3512.4	3503.1	3488.8	3474.4	3459.0	3440.5	3424.1	3411.8	3402.6	3400.5	3400.5
35°	3568.8	3553.4	3533.9	3513.4	3493.9	3478.5	3467.2	3466.2	3460.0	3467.2	3478.5
37.5°	3734.0	3720.7	3690.9	3664.2	3650.9	3643.7	3633.4	3635.5	3621.1	3643.7	3662.2
40°	4084.9	4068.5	4033.6	4012.1	3985.4	3959.7	3980.3	3974.1	3984.4	3980.3	3999.8
42.5°	4597.0	4580.5	4525.1	4516.9	4505.6	4495.4	4495.4	4487.2	4483.1	4497.4	4481.0
45°	5219.8	5187.0	5166.4	5191.1	5157.2	5167.5	5203.4	5155.2	5166.4	5099.7	5038.2
47.5°	5866.2	5863.2	5858.0	5887.8	5892.9	5908.3	5927.8	5878.6	5789.3	5739.0	5613.8
50°	6610.2	6642.0	6654.3	6683.0	6695.3	6706.6	6675.8	6603.0	6452.2	6318.8	6171.0
52.5°	7514.2	7458.8	7534.7	7562.4	7550.1	7504.9	7394.1	7304.8	7096.5	6904.7	6675.8
55°	8567.0	8580.3	8526.9	8505.4	8463.3	8338.1	8185.2	7984.1	7720.4	7470.0	7180.7
57.5°	9639.2	9634.1	9551.0	9434.0	9291.4	9140.5	8912.8	8624.4	8316.6	7980.0	7630.1
60°	10943.4	10938.3	10770.0	10569.9	10366.7	10123.6	9766.5	9419.6	9007.2	8564.9	8148.3
62.5°	12657.0	12436.4	12271.2	11972.6	11658.6	11340.5	10857.2	10396.5	9845.5	9287.3	8800.9
65°	14852.9	14489.6	14301.9	13868.8	13382.5	12885.8	12394.3	11788.9	11047.1	10371.9	9777.8
67.5°	16477.2	16144.7	15801.0	15369.0	14835.4	14281.3	13608.2	12845.8	12003.4	11246.1	10598.6
69°	16619.8	16308.9	15896.4	15463.4	14958.6	14356.2	13621.5	12767.8	11914.1	11147.6	10510.4
70°	16403.3	16072.9	15638.9	15188.4	14624.1	14055.6	13286.0	12396.4	11541.6	10773.1	10151.3
72.5°	14788.2	14466.0	14004.3	13465.6	12886.9	12400.5	11669.9	10742.3	9812.6	9102.6	8618.3
75°	11245.1	11174.3	10847.0	10533.0	10077.4	9534.6	8866.6	8242.7	7480.3	6729.2	6277.7
77.5°	4798.1	4961.2	5131.6	5156.2	5172.6	5005.3	4901.7	4744.7	4234.7	4002.8	3763.8
80°	886.6	792.2	845.5	851.7	886.6	905.0	972.7	1153.3	1173.9	1218.0	1272.4
82.5°	315.0	320.1	328.4	331.4	334.5	346.8	393.0	471.0	541.8	634.1	757.3
85°	178.5	181.6	188.8	195.0	199.1	211.4	237.0	283.2	353.0	458.7	621.8
87.5°	54.4	61.6	65.7	73.9	77.0	79.0	90.3	121.1	156.0	230.9	336.6
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-E05-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2	3036.2
2.5°	3034.2	3033.2	3031.1	3029.1	3030.1	3028.0	3021.9	3019.8	3012.6	3007.5	3003.4
5°	3061.9	3060.9	3056.8	3057.8	3056.8	3046.5	3039.3	3027.0	3019.8	3008.5	3004.4
7.5°	3119.4	3118.3	3111.2	3114.2	3112.2	3096.8	3084.5	3065.0	3054.7	3040.4	3029.1
10°	3205.6	3205.6	3197.3	3198.4	3198.4	3177.8	3156.3	3123.5	3099.9	3077.3	3057.8
12.5°	3310.2	3306.1	3305.1	3300.0	3295.9	3273.3	3240.4	3196.3	3152.2	3115.3	3088.6
15°	3415.9	3409.7	3406.7	3400.5	3395.4	3374.9	3330.7	3276.4	3216.8	3157.3	3113.2
17.5°	3484.7	3480.5	3474.4	3472.3	3465.2	3444.6	3413.9	3359.5	3285.6	3202.5	3135.8
20°	3510.3	3503.1	3499.0	3494.9	3490.8	3476.4	3476.4	3441.6	3359.5	3242.5	3140.9
22.5°	3493.9	3489.8	3483.6	3480.5	3476.4	3478.5	3518.5	3513.4	3419.0	3251.7	3104.0
25°	3455.9	3450.8	3445.7	3445.7	3444.6	3466.2	3562.6	3576.0	3436.4	3206.6	3022.9
27.5°	3416.9	3409.7	3411.8	3412.8	3418.0	3464.1	3610.9	3592.4	3389.2	3097.8	2883.4
30°	3393.3	3393.3	3398.5	3406.7	3416.9	3498.0	3648.8	3555.5	3267.1	2933.6	2698.7
32.5°	3403.6	3413.9	3425.1	3445.7	3461.1	3572.9	3662.2	3460.0	3089.6	2730.5	2505.7
35°	3494.9	3507.2	3528.8	3560.6	3579.1	3680.6	3662.2	3320.5	2883.4	2556.0	2306.7
37.5°	3694.0	3706.3	3731.9	3756.6	3775.0	3816.1	3646.8	3143.0	2711.0	2375.4	2128.1
40°	4014.1	4031.6	4050.0	4045.9	4033.6	3993.6	3616.0	2977.8	2551.9	2217.4	1952.7
42.5°	4464.6	4448.2	4446.1	4406.1	4365.1	4193.7	3593.4	2870.0	2415.5	2051.2	1778.2
45°	4984.8	4918.1	4849.4	4796.0	4733.4	4413.3	3587.3	2782.8	2264.6	1866.5	1588.4
47.5°	5508.1	5401.4	5268.0	5184.9	5083.3	4647.2	3605.7	2665.8	2070.7	1665.4	1410.9
50°	6021.2	5846.7	5681.5	5582.0	5467.1	4916.1	3635.5	2468.8	1838.8	1482.7	1248.8
52.5°	6496.3	6271.6	6102.2	5985.3	5844.7	5229.0	3608.8	2210.2	1637.7	1307.3	1094.9
55°	6947.8	6699.4	6524.0	6400.8	6235.6	5543.0	3415.9	1975.3	1445.8	1135.9	921.4
57.5°	7342.8	7104.8	6922.1	6754.9	6615.3	5816.0	3035.2	1781.3	1261.1	939.9	733.7
60°	7804.6	7536.7	7320.2	7141.7	6977.5	5956.5	2608.4	1608.9	1064.1	727.5	530.5
62.5°	8427.4	8119.6	7869.2	7665.0	7450.6	5987.3	2316.9	1436.5	844.5	526.4	385.8
65°	9350.9	8971.2	8658.3	8377.1	8086.7	5860.1	2173.3	1248.8	628.0	390.9	323.2
67.5°	10084.6	9690.5	9328.3	8967.1	8595.7	5624.1	2141.5	1075.4	482.3	332.5	290.4
69°	9995.3	9619.7	9287.3	8896.3	8484.9	5327.5	2109.7	1008.7	440.2	308.9	275.0
70°	9651.5	9295.5	8957.9	8639.8	8136.0	4997.1	2025.5	971.7	423.8	297.6	263.7
72.5°	8155.5	7743.0	7415.7	7019.6	6489.1	3713.5	1536.1	786.0	388.9	271.9	238.1
75°	5948.3	5606.6	5280.3	4842.2	4326.1	2148.7	956.3	449.4	285.3	246.3	215.5
77.5°	3473.4	3396.4	3081.4	2793.1	2282.1	1093.8	549.0	268.8	221.6	223.7	189.8
80°	1307.3	1392.4	1424.2	1324.7	1224.1	755.2	399.2	218.6	192.9	220.6	161.1
82.5°	953.3	1106.1	1124.6	1077.4	1002.5	703.9	319.1	175.5	157.0	237.0	138.5
85°	795.2	880.4	893.7	844.5	819.9	596.2	222.7	123.1	114.9	170.3	103.6
87.5°	402.2	423.8	435.1	394.0	396.1	278.1	89.3	52.3	62.6	72.9	57.5
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-E05-LED-E-U-RW-7060

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	3036.2	3036.2
2.5°	2994.2	3000.3
5°	2998.3	2998.3
7.5°	3021.9	3021.9
10°	3047.5	3048.6
12.5°	3071.1	3070.1
15°	3089.6	3086.5
17.5°	3100.9	3097.8
20°	3089.6	3084.5
22.5°	3032.1	3017.8
25°	2927.5	2909.0
27.5°	2789.0	2776.6
30°	2608.4	2589.9
32.5°	2397.0	2387.7
35°	2194.8	2183.6
37.5°	2010.1	2007.1
40°	1854.2	1837.8
42.5°	1671.5	1664.3
45°	1485.8	1481.7
47.5°	1311.4	1307.3
50°	1150.3	1142.1
52.5°	992.2	978.9
55°	816.8	807.5
57.5°	627.0	618.7
60°	441.2	432.0
62.5°	314.0	303.7
65°	261.7	253.4
67.5°	237.0	227.8
69°	225.7	217.5
70°	218.6	212.4
72.5°	203.2	199.1
75°	185.7	182.6
77.5°	163.2	158.0
80°	136.5	131.3
82.5°	114.9	109.8
85°	77.0	69.8
87.5°	34.9	30.8
90°	0.0	0.0

(END OF REPORT)