

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: P158033

Luminaire Tested: **VST-F07-LED-E-U-RW-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158033
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-F07-LED-E-U-RW-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(7) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (49) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 15194.3 lumens
Efficiency: N/A
Efficacy: 84.2 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

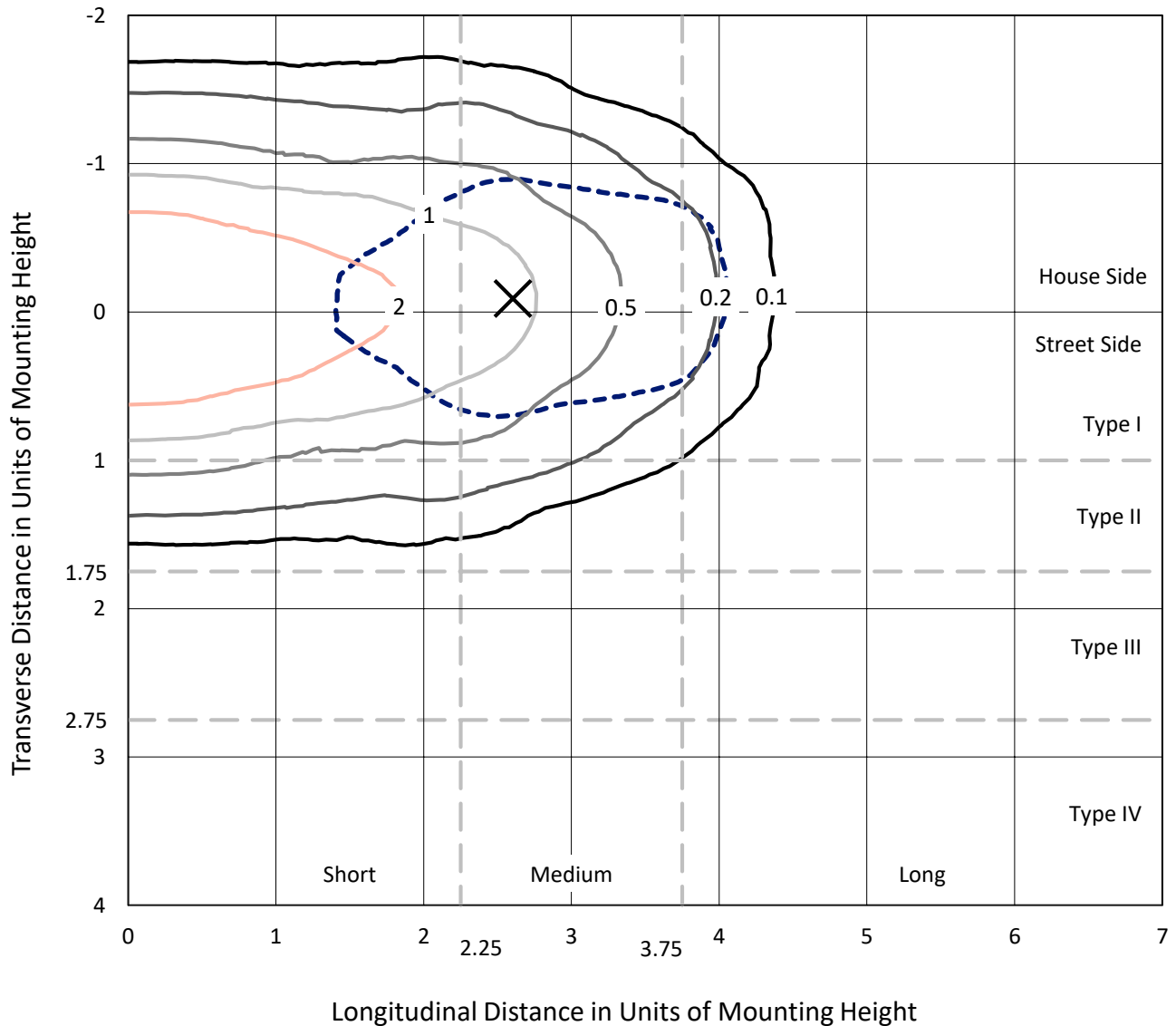
Input Watts (W): 180.5
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

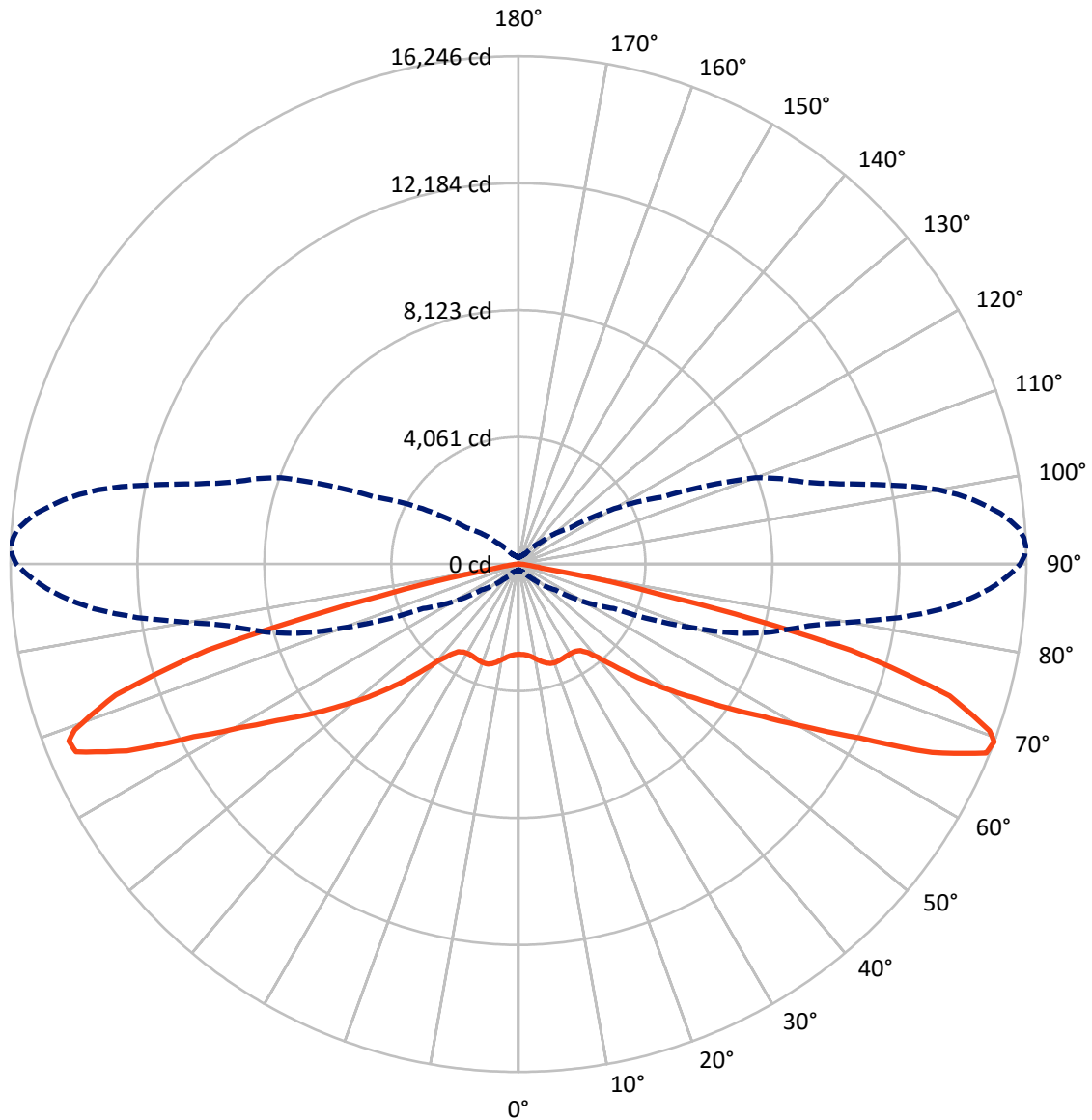
× Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 4.7 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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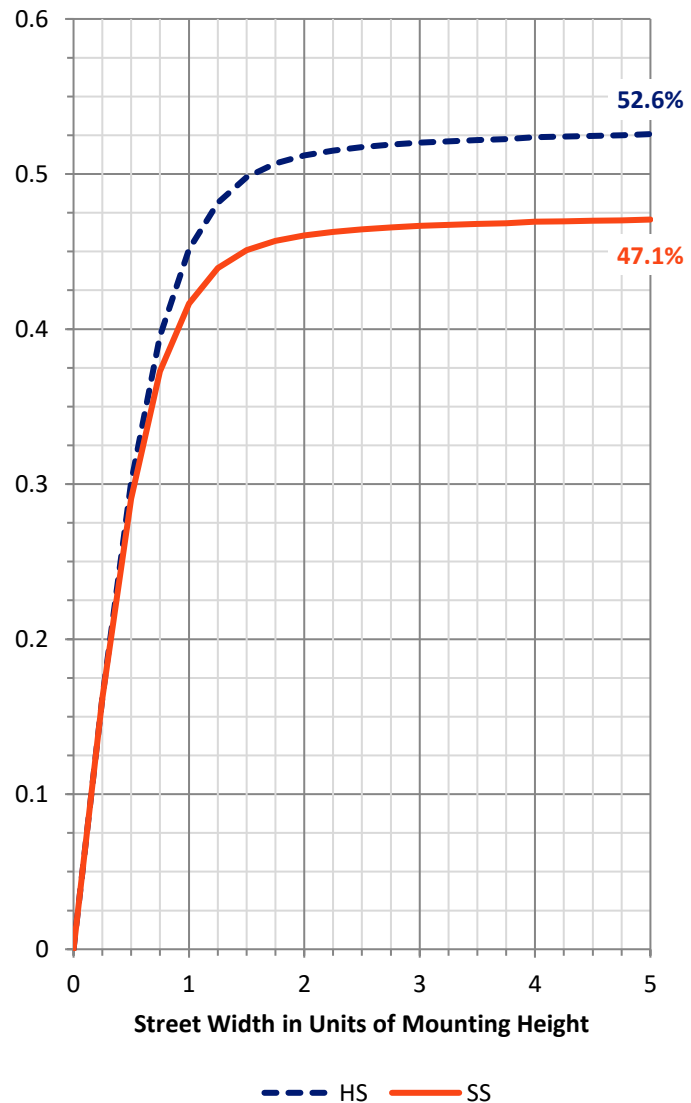
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	8058.4	0.0	8058.4
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	7136.0	0.0	7136.0
	% Fixture	47.0	0.0	47.0
Total	Lumens	15194.3	0.0	15194.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	282.4	1.9
10°-20°	892.2	5.9
20°-30°	1447.5	9.5
30°-40°	1804.0	11.9
40°-50°	2246.1	14.8
50°-60°	2770.0	18.2
60°-70°	3440.2	22.6
70°-80°	2113.8	13.9
80°-90°	198.1	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°	15194.3	100.0
0°-180°	15194.3	100.0



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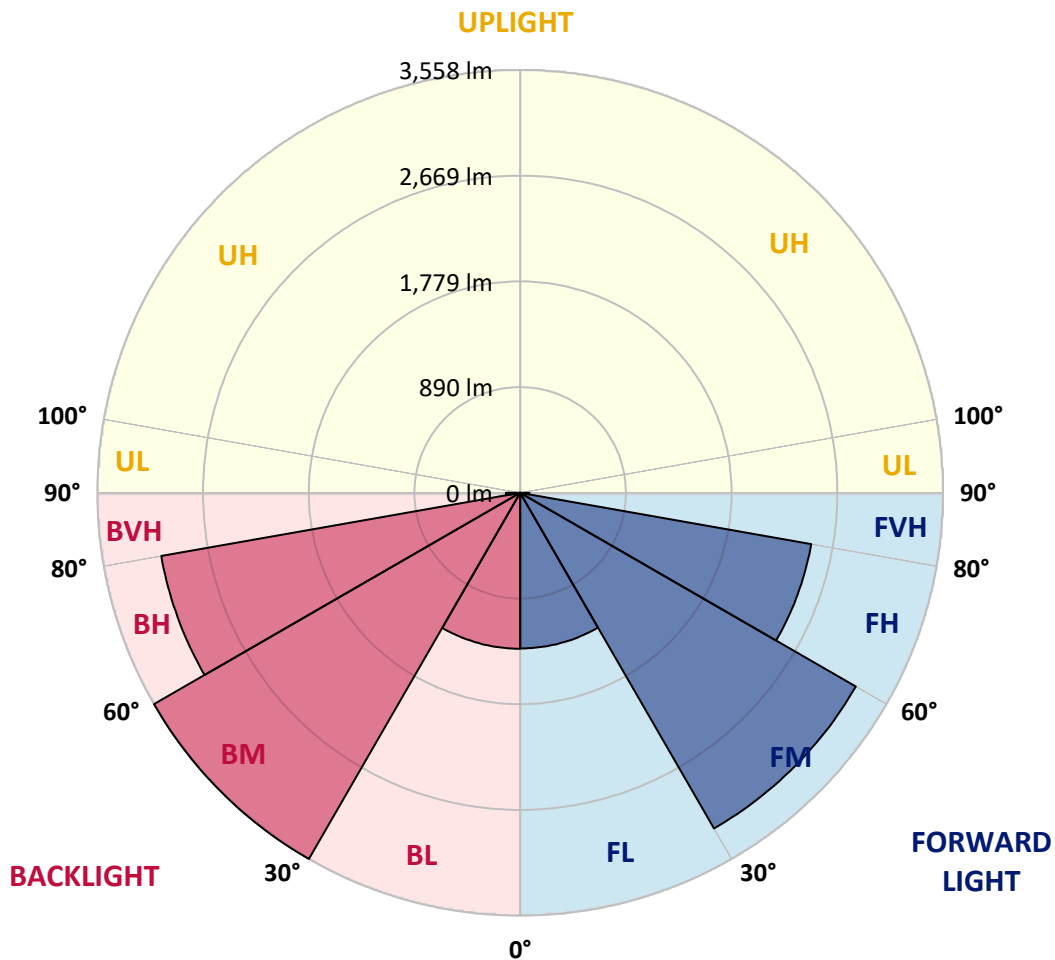
CATALOG NUMBER: VST-F07-LED-E-U-RW-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1309.7	8.6			
FM (30°-60°)	3261.6	21.5			
FH (60°-80°)	2487.1	16.4			G2/5000
FVH (80°-90°)	77.6	0.5			G1/100
BL (0°-30°)	1312.4	8.6	B3/2500		
BM (30°-60°)	3558.5	23.4	B3/5000		
BH (60°-80°)	3066.9	20.2	B4/5000		G4/5000
BVH (80°-90°)	120.5	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°	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3
2.5°	2932.1	2924.3	2931.2	2932.1	2931.2	2931.2	2922.4	2920.4	2908.7	2911.7	2910.7
5°	2972.1	2969.2	2974.1	2976.0	2978.0	2974.1	2967.3	2964.3	2956.5	2953.6	2952.6
7.5°	3009.2	3004.3	3012.1	3019.0	3023.8	3024.8	3025.8	3020.9	3020.9	3017.0	3017.0
10°	3040.4	3036.5	3049.2	3058.0	3073.6	3082.4	3092.1	3098.9	3102.8	3103.8	3102.8
12.5°	3054.1	3051.1	3071.6	3098.0	3127.2	3147.7	3172.1	3189.7	3194.5	3193.6	3198.4
15°	3030.7	3032.6	3063.8	3115.5	3178.0	3229.6	3263.8	3278.4	3282.3	3284.3	3285.2
17.5°	2967.3	2971.2	3016.0	3099.9	3209.2	3302.8	3353.5	3353.5	3345.7	3345.7	3344.7
20°	2865.8	2869.7	2928.2	3049.2	3210.1	3353.5	3425.7	3411.1	3381.8	3376.0	3370.1
22.5°	2725.4	2741.0	2805.3	2945.8	3168.2	3368.2	3470.6	3449.1	3403.3	3390.6	3381.8
25°	2566.4	2564.4	2641.5	2799.5	3066.8	3333.0	3483.3	3479.4	3430.6	3416.9	3401.3
27.5°	2384.9	2390.8	2462.0	2622.0	2911.7	3231.6	3461.8	3513.5	3473.5	3459.8	3445.2
30°	2198.6	2204.5	2271.8	2458.1	2735.1	3086.3	3417.9	3546.7	3531.1	3520.3	3510.6
32.5°	2011.3	2013.3	2093.3	2293.2	2585.9	2912.6	3351.6	3576.9	3598.4	3593.5	3589.6
35°	1835.8	1837.7	1924.5	2127.4	2438.6	2764.4	3271.6	3620.8	3690.1	3695.9	3699.8
37.5°	1665.1	1668.0	1756.7	1969.4	2293.2	2652.2	3182.8	3688.1	3818.8	3840.3	3844.2
40°	1495.3	1498.3	1583.1	1808.4	2145.9	2553.7	3114.5	3782.7	3992.4	4021.7	4051.9
42.5°	1333.4	1344.1	1416.3	1631.9	1982.1	2431.7	3085.3	3897.8	4198.2	4244.1	4278.2
45°	1182.2	1183.2	1265.1	1467.0	1788.0	2266.9	3065.8	4028.5	4428.5	4497.7	4544.5
47.5°	1020.3	1032.0	1117.8	1313.9	1606.5	2063.0	3003.3	4181.7	4679.1	4760.1	4854.7
50°	863.3	879.8	962.7	1156.9	1440.7	1852.3	2835.6	4361.1	4961.0	5066.4	5175.6
52.5°	712.1	711.1	798.9	1000.8	1273.9	1673.8	2563.4	4549.4	5286.8	5400.0	5518.0
55°	538.4	538.4	625.3	809.6	1093.5	1514.8	2271.8	4666.5	5589.2	5725.8	5854.5
57.5°	369.7	379.4	461.4	620.4	905.2	1369.5	2048.4	4599.2	5820.4	5990.1	6143.3
60°	274.1	283.9	344.3	445.8	708.2	1197.8	1880.6	4282.1	5959.9	6185.2	6384.2
62.5°	237.0	243.9	301.4	357.0	510.1	1015.4	1732.4	3879.3	6160.8	6469.1	6746.1
65°	211.7	218.5	276.0	308.2	399.0	816.4	1649.5	3649.1	6400.8	6871.9	7273.8
67.5°	196.1	203.9	252.6	276.0	348.2	738.4	1585.1	3595.4	6398.8	6970.4	7483.5
69°	188.3	194.1	234.1	259.5	336.5	715.0	1445.6	3362.3	5976.5	6590.0	7105.0
70°	183.4	189.2	223.4	248.7	332.6	673.0	1316.8	3054.1	5495.6	6113.0	6635.8
72.5°	167.8	173.6	199.0	222.4	277.0	449.7	917.9	1954.8	3927.1	4368.0	4965.9
75°	148.3	155.1	174.6	194.1	209.7	260.4	529.7	1014.4	2245.4	2580.0	3112.6
77.5°	121.0	127.8	148.3	179.5	177.5	198.0	344.3	623.3	1051.5	1304.1	1501.2
80°	99.5	104.4	121.9	181.4	145.3	165.8	279.0	511.1	740.4	818.4	865.2
82.5°	66.3	73.2	94.6	142.4	111.2	118.0	208.7	478.0	626.2	686.7	743.3
85°	31.2	34.1	57.6	76.1	67.3	63.4	119.0	337.5	466.3	494.5	516.0
87.5°	0.0	0.0	2.9	5.9	8.8	8.8	21.5	71.2	130.7	158.0	156.1
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-F07-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3
2.5°	2906.8	2907.8	2906.8	2906.8	2905.8	2903.9	2903.9	2901.9	2902.9	2901.9	2903.9
5°	2951.7	2951.7	2948.7	2946.8	2949.7	2946.8	2947.7	2942.9	2942.9	2939.9	2936.0
7.5°	3016.0	3016.0	3017.0	3011.2	3015.1	3016.0	3013.1	3011.2	3009.2	3004.3	3005.3
10°	3101.9	3101.9	3104.8	3097.0	3100.9	3102.8	3103.8	3103.8	3101.9	3093.1	3094.1
12.5°	3197.5	3195.5	3196.5	3192.6	3196.5	3198.4	3200.4	3198.4	3198.4	3196.5	3195.5
15°	3284.3	3283.3	3285.2	3282.3	3283.3	3285.2	3291.1	3290.1	3289.1	3283.3	3283.3
17.5°	3343.8	3340.8	3338.9	3337.9	3337.9	3336.9	3337.9	3337.9	3335.0	3334.0	3334.0
20°	3366.2	3358.4	3353.5	3350.6	3346.7	3344.7	3342.8	3343.8	3341.8	3338.9	3339.9
22.5°	3370.1	3359.4	3349.6	3340.8	3333.0	3328.2	3323.3	3321.3	3316.5	3313.5	3313.5
25°	3388.6	3372.1	3356.5	3341.8	3330.1	3319.4	3308.7	3300.9	3295.0	3288.2	3286.2
27.5°	3429.6	3412.1	3393.5	3375.0	3359.4	3337.9	3323.3	3307.7	3294.0	3283.3	3275.5
30°	3493.0	3475.5	3456.9	3435.5	3415.0	3392.5	3368.2	3349.6	3330.1	3308.7	3297.0
32.5°	3576.9	3565.2	3546.7	3526.2	3507.6	3484.2	3455.0	3426.7	3408.2	3382.8	3364.3
35°	3696.9	3683.2	3677.4	3668.6	3650.1	3635.4	3603.2	3576.9	3559.3	3524.2	3510.6
37.5°	3860.8	3859.8	3864.7	3861.7	3864.7	3846.1	3831.5	3830.5	3805.2	3771.0	3737.8
40°	4084.1	4095.8	4122.2	4140.7	4158.3	4160.2	4180.7	4159.2	4162.2	4157.3	4123.1
42.5°	4338.7	4378.7	4409.9	4464.5	4506.5	4545.5	4571.8	4607.9	4635.2	4659.6	4665.5
45°	4622.6	4682.1	4754.2	4803.0	4885.0	4950.3	5040.0	5109.3	5181.5	5252.7	5278.1
47.5°	4930.8	5004.9	5084.9	5175.6	5279.0	5381.4	5520.0	5626.3	5742.4	5838.9	5924.8
50°	5271.2	5348.3	5455.6	5559.9	5702.4	5820.4	6001.8	6141.3	6328.6	6457.3	6568.5
52.5°	5626.3	5722.8	5842.8	5957.9	6103.3	6254.5	6456.4	6662.2	6887.5	7082.6	7244.5
55°	5973.5	6092.5	6207.6	6342.2	6503.2	6678.8	6907.0	7178.2	7459.1	7682.5	7897.1
57.5°	6282.7	6420.3	6555.9	6692.4	6857.3	7061.1	7317.7	7610.3	7932.2	8229.7	8524.3
60°	6569.5	6734.4	6900.2	7070.9	7260.1	7511.8	7820.0	8180.0	8596.5	9003.2	9388.5
62.5°	7023.1	7239.6	7445.5	7665.9	7894.2	8189.7	8553.5	9025.7	9503.6	10011.8	10406.9
65°	7637.6	7941.9	8211.2	8497.0	8792.5	9187.6	9622.6	10187.4	10872.1	11393.0	12027.0
67.5°	7942.9	8343.8	8690.1	9008.1	9373.9	9772.8	10289.8	10958.0	11688.6	12443.6	13150.7
69°	7584.0	7997.5	8380.9	8736.9	9106.6	9493.9	10034.2	10720.0	11492.5	12308.9	12999.6
70°	7118.7	7532.3	7941.0	8346.8	8684.3	9061.7	9604.1	10311.3	11082.8	11931.5	12616.2
72.5°	5453.6	5951.1	6320.8	6701.2	7092.3	7412.3	8038.5	8634.5	9438.3	10299.6	11053.6
75°	3489.1	3946.6	4350.4	4674.3	5056.6	5440.0	5902.3	6564.6	7068.0	7775.2	8386.7
77.5°	1792.8	1928.4	2317.6	2433.7	2699.0	2907.8	3162.3	3328.2	3737.8	3824.7	4185.6
80°	849.6	765.7	720.8	679.9	691.6	686.7	666.2	638.9	673.0	658.4	652.6
82.5°	740.4	660.4	526.7	447.7	387.2	328.7	282.9	259.5	262.4	270.2	273.1
85°	518.9	487.7	380.4	288.7	225.3	174.6	140.5	134.6	138.5	149.2	145.3
87.5°	150.2	157.0	138.5	96.6	67.3	48.8	38.0	42.9	41.0	40.0	41.9
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°	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3
2.5°	2903.9	2902.9	2900.0	2897.0	2897.0	2895.1	2897.0	2898.0	2897.0	2897.0	2895.1
5°	2937.0	2938.0	2940.9	2935.1	2934.1	2935.1	2931.2	2930.2	2927.3	2930.2	2926.3
7.5°	3000.4	3003.3	3003.3	2999.4	2998.5	3001.4	2995.5	2993.6	2990.7	2989.7	2988.7
10°	3095.0	3098.0	3093.1	3090.2	3087.2	3091.1	3086.3	3086.3	3083.3	3080.4	3079.4
12.5°	3200.4	3198.4	3196.5	3198.4	3195.5	3195.5	3192.6	3190.6	3189.7	3188.7	3186.7
15°	3282.3	3289.1	3289.1	3291.1	3289.1	3289.1	3285.2	3286.2	3284.3	3283.3	3284.3
17.5°	3335.0	3336.9	3341.8	3344.7	3344.7	3345.7	3343.8	3345.7	3343.8	3343.8	3347.7
20°	3341.8	3343.8	3348.7	3353.5	3356.5	3358.4	3358.4	3361.3	3363.3	3365.2	3370.1
22.5°	3314.5	3317.4	3323.3	3332.1	3336.9	3338.9	3342.8	3347.7	3352.6	3356.5	3363.3
25°	3286.2	3287.2	3293.1	3301.8	3307.7	3312.6	3319.4	3325.2	3332.1	3339.9	3347.7
27.5°	3270.6	3269.6	3274.5	3283.3	3288.2	3295.0	3300.9	3309.6	3317.4	3327.2	3334.0
30°	3284.3	3276.5	3277.4	3281.3	3285.2	3290.1	3297.0	3304.8	3313.5	3322.3	3330.1
32.5°	3344.7	3327.2	3315.5	3312.6	3313.5	3314.5	3318.4	3323.3	3330.1	3336.9	3339.9
35°	3475.5	3445.2	3429.6	3416.9	3406.2	3397.4	3399.4	3398.4	3398.4	3404.2	3397.4
37.5°	3724.2	3686.1	3669.6	3647.1	3634.5	3602.3	3593.5	3591.5	3578.9	3578.9	3564.2
40°	4114.4	4091.9	4079.2	4058.8	3997.3	4005.1	3961.2	3962.2	3926.1	3930.0	3904.6
42.5°	4669.4	4672.3	4656.7	4643.0	4595.2	4573.8	4532.8	4474.3	4428.5	4427.5	4376.8
45°	5311.2	5346.3	5296.6	5314.1	5272.2	5214.6	5166.9	5091.7	5020.5	4998.1	4946.4
47.5°	5982.3	6039.9	6001.8	6008.6	5988.2	5906.2	5841.8	5749.2	5656.5	5594.1	5562.9
50°	6699.3	6737.3	6736.3	6717.8	6708.0	6628.0	6524.6	6454.4	6386.1	6302.3	6274.9
52.5°	7348.9	7437.7	7497.2	7483.5	7455.2	7407.4	7315.7	7255.2	7154.8	7143.1	7154.8
55°	8044.4	8159.5	8219.9	8293.1	8294.1	8285.3	8247.3	8224.8	8131.2	8141.9	8128.3
57.5°	8702.8	8871.5	8964.2	9120.3	9173.9	9245.1	9218.8	9248.0	9191.5	9228.5	9217.8
60°	9595.3	9829.4	9983.5	10197.1	10296.6	10475.1	10510.3	10531.7	10562.9	10639.0	10596.1
62.5°	10718.0	11061.4	11381.3	11672.0	11767.6	12035.8	12079.7	12247.5	12256.3	12308.0	12213.4
65°	12555.7	12974.2	13326.3	13674.5	13875.5	14189.6	14316.4	14642.2	14542.7	14584.6	14382.7
67.5°	13759.4	14246.2	14718.3	15048.0	15381.6	15702.5	15933.6	16144.3	16142.4	16101.4	15921.9
69°	13653.1	14195.4	14660.7	15102.6	15453.7	15783.4	16061.4	16198.0	16245.8	16186.3	16058.5
70°	13285.4	13842.3	14412.0	14775.8	15158.2	15520.1	15806.8	15956.1	15989.2	15947.3	15837.1
72.5°	11586.2	12120.7	12748.9	13079.5	13541.9	13803.3	14198.4	14391.5	14425.6	14372.0	14299.8
75°	9042.2	9138.8	9778.7	9989.4	10324.9	10626.3	10872.1	10809.7	10984.3	10950.2	10922.9
77.5°	4259.7	4002.2	4416.7	4609.9	4508.4	4238.2	4631.3	4347.5	4535.7	4780.6	4718.2
80°	702.3	700.4	718.9	759.9	711.1	755.0	754.0	732.5	734.5	787.2	759.9
82.5°	270.2	276.0	279.0	286.8	286.8	287.8	292.6	298.5	293.6	303.4	301.4
85°	146.3	156.1	147.3	140.5	145.3	148.3	152.2	157.0	152.2	166.8	159.0
87.5°	38.0	40.0	35.1	35.1	34.1	31.2	31.2	33.2	36.1	42.9	46.8
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3
2.5°	2891.2	2892.1	2893.1	2890.2	2888.2	2888.2	2887.3	2885.3	2884.3	2884.3	2884.3
5°	2924.3	2926.3	2921.4	2920.4	2918.5	2916.5	2916.5	2914.6	2915.6	2915.6	2910.7
7.5°	2990.7	2987.7	2981.9	2978.0	2981.9	2975.1	2972.1	2974.1	2972.1	2973.1	2971.2
10°	3079.4	3079.4	3072.6	3076.5	3071.6	3063.8	3066.8	3063.8	3061.9	3055.0	3058.9
12.5°	3189.7	3186.7	3182.8	3174.0	3171.1	3170.1	3161.4	3162.3	3159.4	3157.5	3154.5
15°	3286.2	3285.2	3276.5	3271.6	3270.6	3266.7	3262.8	3260.9	3256.0	3255.0	3253.1
17.5°	3350.6	3347.7	3343.8	3338.9	3338.9	3333.0	3331.1	3326.2	3325.2	3322.3	3319.4
20°	3372.1	3373.0	3369.1	3365.2	3363.3	3359.4	3356.5	3352.6	3350.6	3346.7	3343.8
22.5°	3367.2	3367.2	3363.3	3362.3	3358.4	3352.6	3348.7	3343.8	3338.9	3334.0	3328.2
25°	3351.6	3350.6	3347.7	3342.8	3337.9	3329.1	3321.3	3313.5	3306.7	3300.9	3292.1
27.5°	3337.9	3336.0	3330.1	3323.3	3313.5	3303.8	3289.1	3278.4	3269.6	3261.8	3252.1
30°	3333.0	3326.2	3317.4	3306.7	3295.0	3280.4	3264.8	3251.1	3241.4	3233.5	3229.6
32.5°	3338.9	3330.1	3316.5	3302.8	3288.2	3270.6	3255.0	3243.3	3234.5	3232.6	3232.6
35°	3392.5	3377.9	3359.4	3339.9	3321.3	3306.7	3296.0	3295.0	3289.1	3296.0	3306.7
37.5°	3549.6	3536.9	3508.6	3483.3	3470.6	3463.8	3454.0	3455.9	3442.3	3463.8	3481.3
40°	3883.2	3867.6	3834.4	3813.9	3788.6	3764.2	3783.7	3777.8	3787.6	3783.7	3802.2
42.5°	4369.9	4354.3	4301.6	4293.8	4283.1	4273.4	4273.4	4265.6	4261.7	4275.3	4259.7
45°	4962.0	4930.8	4911.3	4934.7	4902.5	4912.3	4946.4	4900.6	4911.3	4847.9	4789.4
47.5°	5576.5	5573.6	5568.7	5597.0	5601.9	5616.5	5635.1	5588.2	5503.4	5455.6	5336.6
50°	6283.7	6314.0	6325.7	6353.0	6364.7	6375.4	6346.1	6276.9	6133.5	6006.7	5866.2
52.5°	7143.1	7090.4	7162.6	7188.9	7177.2	7134.3	7028.9	6944.1	6746.1	6563.7	6346.1
55°	8143.9	8156.5	8105.8	8085.3	8045.3	7926.3	7781.0	7589.8	7339.1	7101.1	6826.1
57.5°	9163.2	9158.3	9079.3	8968.1	8832.5	8689.1	8472.6	8198.5	7905.9	7585.9	7253.3
60°	10403.0	10398.1	10238.1	10047.9	9854.8	9623.6	9284.1	8954.4	8562.3	8141.9	7745.9
62.5°	12031.9	11822.2	11665.2	11381.3	11082.8	10780.4	10321.0	9883.1	9359.2	8828.6	8366.3
65°	14119.3	13774.0	13595.5	13183.9	12721.6	12249.4	11782.2	11206.7	10501.5	9859.6	9294.9
67.5°	15663.5	15347.4	15020.6	14610.0	14102.8	13576.0	12936.1	12211.4	11410.6	10690.7	10075.2
69°	15799.0	15503.5	15111.4	14699.7	14219.8	13647.2	12948.8	12137.3	11325.7	10597.1	9991.3
70°	15593.2	15279.1	14866.5	14438.3	13901.8	13361.4	12629.9	11784.2	10971.6	10241.0	9649.9
72.5°	14057.9	13751.6	13312.7	12800.6	12250.4	11788.1	11093.6	10211.8	9328.0	8653.0	8192.6
75°	10689.7	10622.4	10311.3	10012.8	9579.7	9063.7	8428.7	7835.6	7110.9	6396.9	5967.7
77.5°	4561.1	4716.2	4878.1	4901.5	4917.1	4758.1	4659.6	4510.4	4025.6	3805.2	3577.9
80°	842.8	753.0	803.8	809.6	842.8	860.3	924.7	1096.4	1115.9	1157.8	1209.5
82.5°	299.5	304.3	312.1	315.1	318.0	329.7	373.6	447.7	515.0	602.8	719.9
85°	169.7	172.7	179.5	185.3	189.2	200.9	225.3	269.2	335.5	436.0	591.1
87.5°	51.7	58.5	62.4	70.2	73.2	75.1	85.8	115.1	148.3	219.5	319.9
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-F07-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3	2886.3
2.5°	2884.3	2883.4	2881.4	2879.5	2880.4	2878.5	2872.6	2870.7	2863.9	2859.0	2855.1
5°	2910.7	2909.7	2905.8	2906.8	2905.8	2896.1	2889.2	2877.5	2870.7	2860.0	2856.1
7.5°	2965.3	2964.3	2957.5	2960.4	2958.5	2943.8	2932.1	2913.6	2903.9	2890.2	2879.5
10°	3047.2	3047.2	3039.4	3040.4	3040.4	3020.9	3000.4	2969.2	2946.8	2925.3	2906.8
12.5°	3146.7	3142.8	3141.9	3137.0	3133.1	3111.6	3080.4	3038.5	2996.5	2961.4	2936.0
15°	3247.2	3241.4	3238.4	3232.6	3227.7	3208.2	3166.2	3114.5	3058.0	3001.4	2959.5
17.5°	3312.6	3308.7	3302.8	3300.9	3294.0	3274.5	3245.3	3193.6	3123.3	3044.3	2980.9
20°	3336.9	3330.1	3326.2	3322.3	3318.4	3304.8	3304.8	3271.6	3193.6	3082.4	2985.8
22.5°	3321.3	3317.4	3311.6	3308.7	3304.8	3306.7	3344.7	3339.9	3250.1	3091.1	2950.7
25°	3285.2	3280.4	3275.5	3275.5	3274.5	3295.0	3386.7	3399.4	3266.7	3048.2	2873.6
27.5°	3248.2	3241.4	3243.3	3244.3	3249.2	3293.1	3432.5	3415.0	3221.8	2944.8	2741.0
30°	3225.7	3225.7	3230.6	3238.4	3248.2	3325.2	3468.6	3379.9	3105.8	2788.8	2565.4
32.5°	3235.5	3245.3	3256.0	3275.5	3290.1	3396.4	3481.3	3289.1	2937.0	2595.6	2382.0
35°	3322.3	3334.0	3354.5	3384.7	3402.3	3498.9	3481.3	3156.5	2741.0	2429.8	2192.8
37.5°	3511.5	3523.3	3547.6	3571.0	3588.6	3627.6	3466.7	2987.7	2577.1	2258.1	2023.0
40°	3815.9	3832.5	3850.0	3846.1	3834.4	3796.4	3437.4	2830.7	2425.9	2107.9	1856.2
42.5°	4244.1	4228.5	4226.5	4188.5	4149.5	3986.6	3416.0	2728.3	2296.2	1949.9	1690.4
45°	4738.6	4675.2	4609.9	4559.2	4499.7	4195.3	3410.1	2645.4	2152.8	1774.3	1510.0
47.5°	5236.1	5134.7	5007.9	4928.8	4832.3	4417.7	3427.7	2534.2	1968.4	1583.1	1341.2
50°	5723.8	5558.0	5401.0	5306.3	5197.1	4673.3	3455.9	2346.9	1748.0	1409.5	1187.1
52.5°	6175.4	5961.8	5800.9	5689.7	5556.0	4970.8	3430.6	2101.1	1556.8	1242.7	1040.8
55°	6604.6	6368.6	6201.8	6084.7	5927.7	5269.3	3247.2	1877.7	1374.4	1079.8	875.9
57.5°	6980.2	6753.9	6580.2	6421.3	6288.6	5528.7	2885.3	1693.3	1198.8	893.5	697.4
60°	7419.1	7164.5	6958.7	6789.0	6632.9	5662.4	2479.5	1529.5	1011.5	691.6	504.3
62.5°	8011.2	7718.6	7480.6	7286.5	7082.6	5691.6	2202.5	1365.6	802.8	500.4	366.8
65°	8889.1	8528.2	8230.7	7963.4	7687.4	5570.7	2066.0	1187.1	597.0	371.6	307.3
67.5°	9586.5	9212.0	8867.6	8524.3	8171.2	5346.3	2035.7	1022.3	458.5	316.0	276.0
69°	9501.7	9144.7	8828.6	8457.0	8065.8	5064.4	2005.5	958.8	418.5	293.6	261.4
70°	9174.9	8836.4	8515.5	8213.1	7734.2	4750.3	1925.5	923.7	402.9	282.9	250.7
72.5°	7752.7	7360.6	7049.4	6672.9	6168.6	3530.1	1460.2	747.2	369.7	258.5	226.3
75°	5654.6	5329.7	5019.6	4603.1	4112.4	2042.5	909.1	427.2	271.2	234.1	204.8
77.5°	3301.8	3228.7	2929.2	2655.1	2169.4	1039.8	521.9	255.6	210.7	212.6	180.5
80°	1242.7	1323.7	1353.9	1259.3	1163.7	717.9	379.4	207.8	183.4	209.7	153.1
82.5°	906.2	1051.5	1069.1	1024.2	953.0	669.1	303.4	166.8	149.2	225.3	131.7
85°	756.0	836.9	849.6	802.8	779.4	566.7	211.7	117.1	109.2	161.9	98.5
87.5°	382.4	402.9	413.6	374.6	376.5	264.3	84.9	49.7	59.5	69.3	54.6
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: P158033

CATALOG NUMBER: VST-F07-LED-E-U-RW-8030

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	2886.3	2886.3
2.5°	2846.3	2852.2
5°	2850.2	2850.2
7.5°	2872.6	2872.6
10°	2897.0	2898.0
12.5°	2919.5	2918.5
15°	2937.0	2934.1
17.5°	2947.7	2944.8
20°	2937.0	2932.1
22.5°	2882.4	2868.7
25°	2782.9	2765.3
27.5°	2651.2	2639.5
30°	2479.5	2462.0
32.5°	2278.6	2269.8
35°	2086.4	2075.7
37.5°	1910.9	1907.9
40°	1762.6	1747.0
42.5°	1589.0	1582.1
45°	1412.4	1408.5
47.5°	1246.6	1242.7
50°	1093.5	1085.7
52.5°	943.2	930.6
55°	776.4	767.7
57.5°	596.0	588.2
60°	419.4	410.7
62.5°	298.5	288.7
65°	248.7	240.9
67.5°	225.3	216.5
69°	214.6	206.8
70°	207.8	201.9
72.5°	193.1	189.2
75°	176.6	173.6
77.5°	155.1	150.2
80°	129.7	124.9
82.5°	109.2	104.4
85°	73.2	66.3
87.5°	33.2	29.3
90°	0.0	0.0

(END OF REPORT)