

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: P158059

Luminaire Tested: **VST-E10-LED-E-U-RW-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158059
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-E10-LED-E-U-RW-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (210) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 28454.7 lumens
Efficiency: N/A
Efficacy: 114.9 lumens/watt
Luminous Opening: Rectangular (W 1.67' x L: 1' x H: 0')
IES Classification: Type I - Medium - Full Cutoff
BUG Rating: B5 - U0 - G5

Input Watts (W): 247.7
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

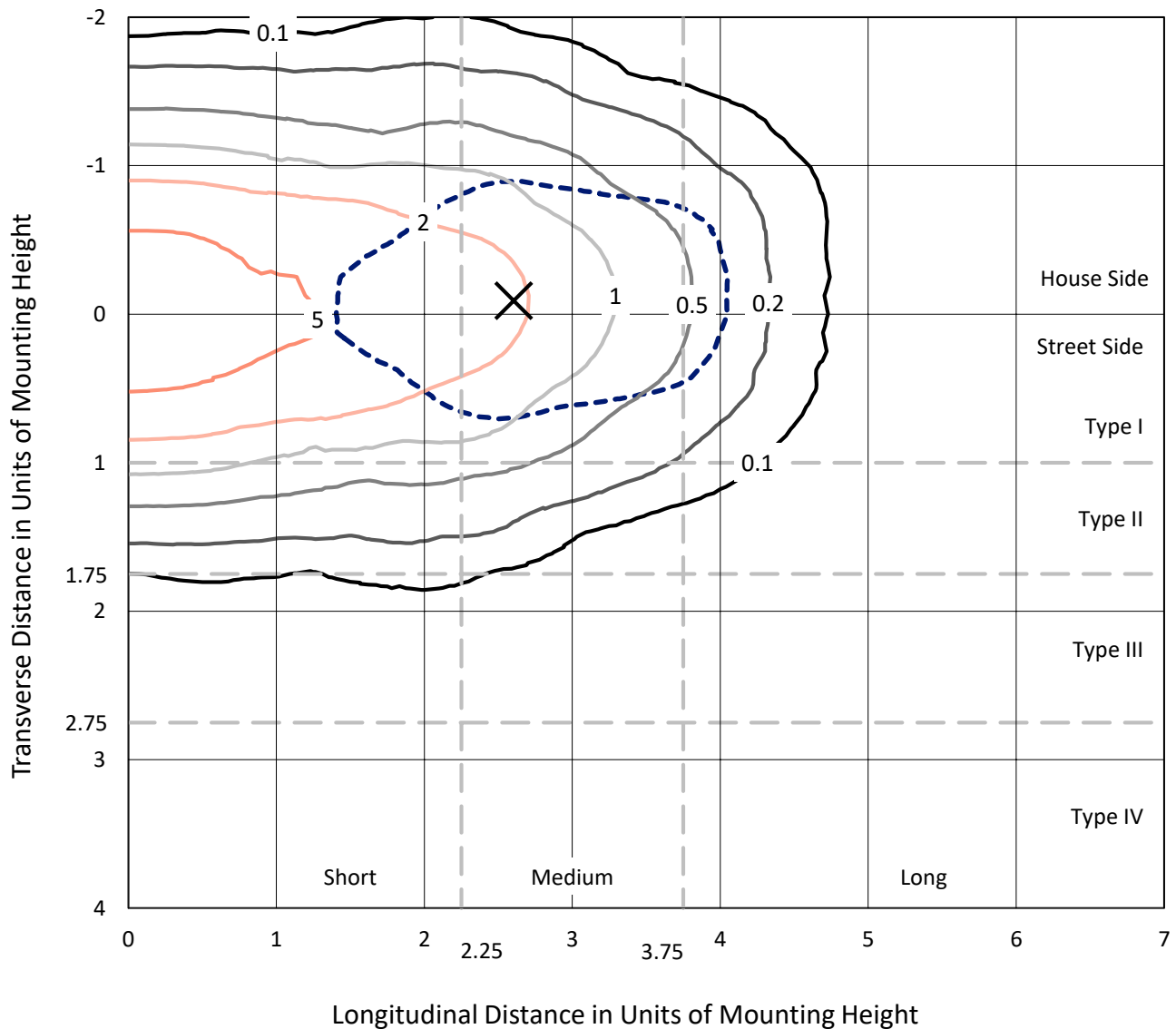


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

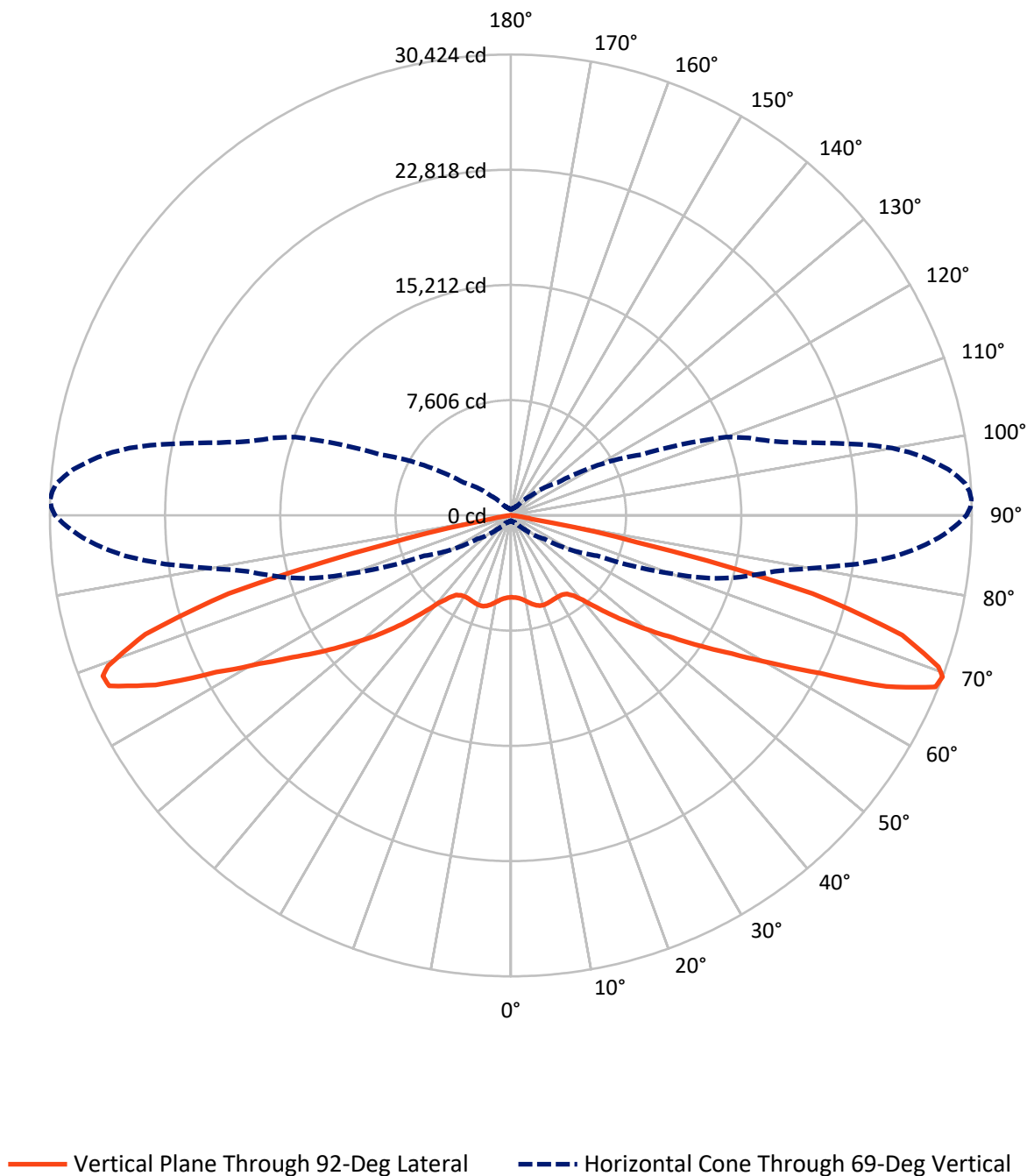


Based on 25 foot mounting height. Maximum calculated value = 8.9 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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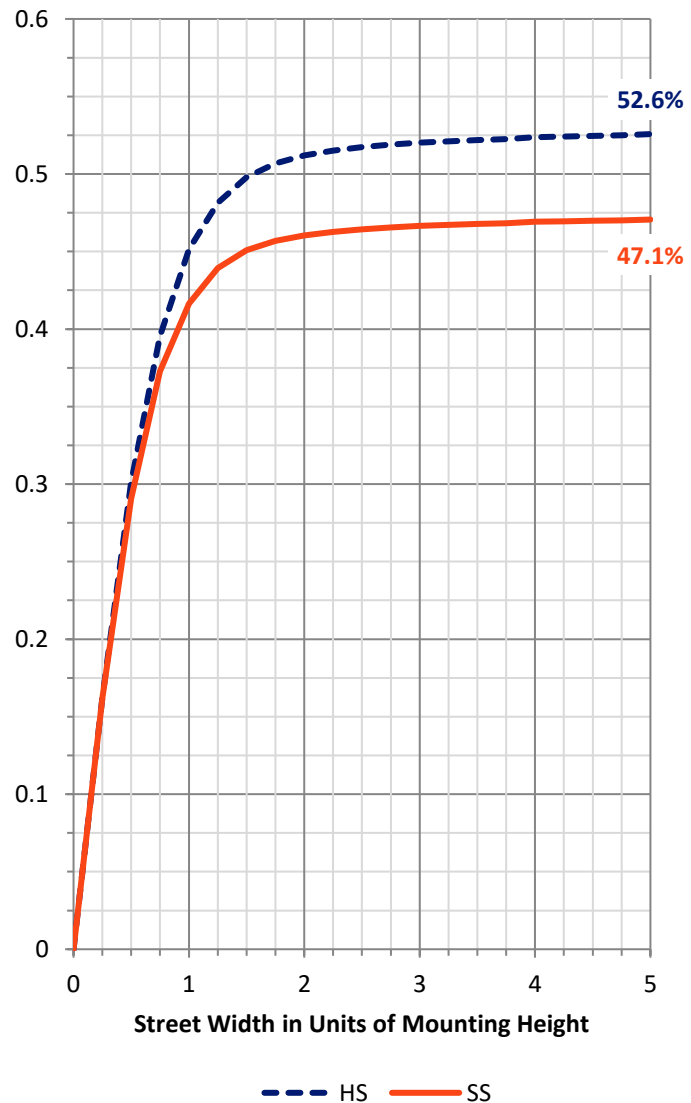
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	15091.0	0.0	15091.0
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	13363.7	0.0	13363.7
	% Fixture	47.0	0.0	47.0
Total	Lumens	28454.7	0.0	28454.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	528.9	1.9
10°-20°	1670.8	5.9
20°-30°	2710.7	9.5
30°-40°	3378.3	11.9
40°-50°	4206.3	14.8
50°-60°	5187.5	18.2
60°-70°	6442.5	22.6
70°-80°	3958.5	13.9
80°-90°	371.0	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°	28454.7	100.0
0°-180°	28454.7	100.0

Coefficient of Utilization



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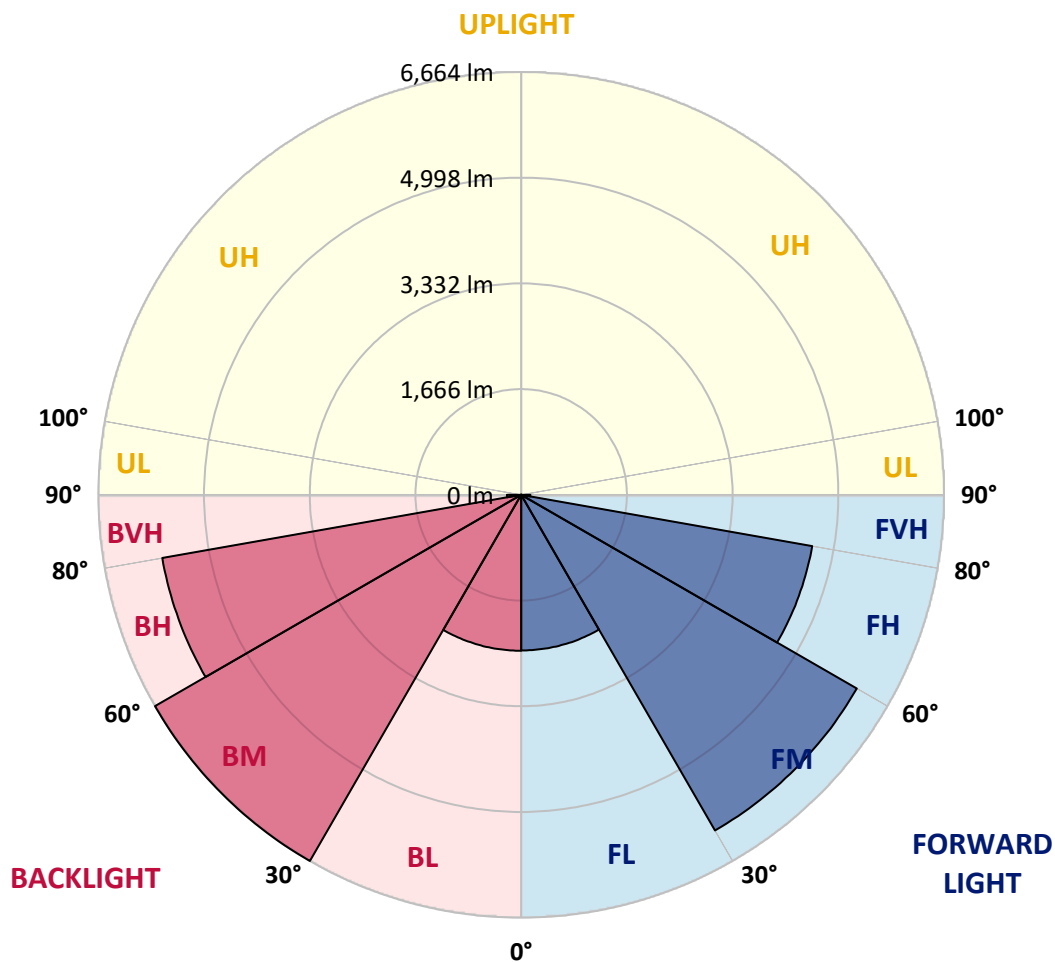
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2452.6	8.6			
FM	(30°-60°)	6108.1	21.5			
FH	(60°-80°)	4657.7	16.4			G2/5000
FVH	(80°-90°)	145.3	0.5			G2/225
BL	(0°-30°)	2457.8	8.6	B3/2500		
BM	(30°-60°)	6664.0	23.4	B4/8500		
BH	(60°-80°)	5743.4	20.2	B5		G5
BVH	(80°-90°)	225.7	0.8			G3/500
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G5

Type I Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	71°	72°
0°	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2
2.5°	5491.1	5476.4	5489.2	5491.1	5489.2	5489.2	5472.8	5469.1	5447.2	5452.7	5450.9
5°	5566.0	5560.5	5569.6	5573.3	5576.9	5569.6	5556.8	5551.3	5536.7	5531.2	5529.4
7.5°	5635.4	5626.2	5640.9	5653.6	5662.8	5664.6	5666.4	5657.3	5657.3	5650.0	5650.0
10°	5693.8	5686.5	5710.3	5726.7	5755.9	5772.4	5790.6	5803.4	5810.7	5812.6	5810.7
12.5°	5719.4	5713.9	5752.3	5801.6	5856.4	5894.8	5940.4	5973.3	5982.4	5980.6	5989.8
15°	5675.6	5679.2	5737.7	5834.5	5951.4	6048.2	6112.1	6139.5	6146.8	6150.5	6152.3
17.5°	5556.8	5564.1	5648.2	5805.3	6009.8	6185.2	6280.2	6280.2	6265.6	6265.6	6263.8
20°	5366.8	5374.2	5483.8	5710.3	6011.7	6280.2	6415.4	6388.0	6333.2	6322.2	6311.3
22.5°	5103.8	5133.0	5253.6	5516.6	5933.1	6307.6	6499.4	6459.2	6373.4	6349.6	6333.2
25°	4806.0	4802.4	4946.7	5242.6	5743.1	6241.8	6523.1	6515.8	6424.5	6398.9	6369.7
27.5°	4466.3	4477.2	4610.6	4910.2	5452.7	6051.9	6483.0	6579.8	6504.9	6479.3	6451.9
30°	4117.4	4128.3	4254.4	4603.3	5122.1	5779.7	6400.8	6641.9	6612.7	6592.6	6574.3
32.5°	3766.7	3770.3	3920.1	4294.6	4842.6	5454.5	6276.5	6698.5	6738.7	6729.6	6722.3
35°	3437.9	3441.5	3604.1	3984.0	4566.8	5176.9	6126.8	6780.7	6910.4	6921.4	6928.7
37.5°	3118.2	3123.7	3289.9	3688.1	4294.6	4966.8	5960.5	6906.8	7151.5	7191.7	7199.0
40°	2800.3	2805.8	2964.7	3386.7	4018.7	4782.3	5832.7	7083.9	7476.7	7531.5	7588.1
42.5°	2497.1	2517.2	2652.4	3056.1	3711.9	4554.0	5777.9	7299.5	7862.1	7948.0	8011.9
45°	2214.0	2215.8	2369.2	2747.4	3348.3	4245.3	5741.3	7544.3	8293.2	8422.9	8510.6
47.5°	1910.7	1932.6	2093.4	2460.6	3008.6	3863.5	5624.4	7831.1	8762.7	8914.3	9091.5
50°	1616.6	1647.7	1803.0	2166.5	2698.0	3468.9	5310.2	8167.2	9290.6	9487.9	9692.5
52.5°	1333.5	1331.7	1496.1	1874.2	2385.7	3134.6	4800.6	8519.7	9900.7	10112.6	10333.6
55°	1008.3	1008.3	1170.9	1516.2	2047.7	2836.9	4254.4	8738.9	10467.0	10722.7	10963.9
57.5°	692.3	710.6	864.0	1161.8	1695.2	2564.7	3836.1	8612.9	10899.9	11217.8	11504.6
60°	513.3	531.6	644.8	834.8	1326.2	2243.2	3521.9	8019.2	11161.1	11583.1	11955.8
62.5°	443.9	456.7	564.5	668.6	955.4	1901.6	3244.2	7264.8	11537.4	12114.7	12633.5
65°	396.4	409.2	517.0	577.2	747.1	1528.9	3089.0	6833.7	11986.8	12869.1	13621.7
67.5°	367.2	381.8	473.1	517.0	652.1	1382.8	2968.4	6733.2	11983.2	13053.6	14014.4
69°	352.6	363.5	438.4	485.9	630.2	1339.0	2707.2	6296.6	11192.2	12341.2	13305.7
70°	343.4	354.4	418.3	465.8	622.9	1260.4	2466.0	5719.4	10291.6	11447.9	12427.0
72.5°	314.2	325.2	372.6	416.5	518.8	842.1	1718.9	3660.7	7354.3	8180.0	9299.7
75°	277.7	290.4	327.0	363.5	392.7	487.7	991.9	1899.8	4205.1	4831.6	5829.0
77.5°	226.5	239.3	277.7	336.1	332.5	370.8	644.8	1167.3	1969.2	2442.3	2811.3
80°	186.3	195.5	228.3	339.8	272.2	310.5	522.4	957.2	1386.5	1532.6	1620.3
82.5°	124.2	137.0	177.2	266.7	208.2	221.0	390.9	895.1	1172.7	1286.0	1391.9
85°	58.5	63.9	107.8	142.5	126.0	118.7	222.9	632.0	873.2	926.1	966.3
87.5°	0.0	0.0	5.5	11.0	16.4	16.4	40.2	133.3	244.8	295.9	292.3
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-E10-LED-E-U-RW-7030

CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2
2.5°	5443.6	5445.4	5443.6	5443.6	5441.7	5438.1	5438.1	5434.4	5436.3	5434.4	5438.1
5°	5527.6	5527.6	5522.1	5518.5	5523.9	5518.5	5520.3	5511.2	5511.2	5505.7	5498.4
7.5°	5648.2	5648.2	5650.0	5639.0	5646.3	5648.2	5642.7	5639.0	5635.4	5626.2	5628.1
10°	5808.9	5808.9	5814.4	5799.8	5807.1	5810.7	5812.6	5812.6	5808.9	5792.5	5794.3
12.5°	5987.9	5984.3	5986.1	5978.8	5986.1	5989.8	5993.4	5989.8	5989.8	5986.1	5984.3
15°	6150.5	6148.7	6152.3	6146.8	6148.7	6152.3	6163.3	6161.5	6159.6	6148.7	6148.7
17.5°	6261.9	6256.4	6252.8	6251.0	6251.0	6249.1	6251.0	6251.0	6245.5	6243.7	6243.7
20°	6303.9	6289.3	6280.2	6274.7	6267.4	6263.8	6260.1	6261.9	6258.3	6252.8	6254.6
22.5°	6311.3	6291.2	6272.9	6256.4	6241.8	6232.7	6223.6	6219.9	6210.8	6205.3	6205.3
25°	6346.0	6314.9	6285.7	6258.3	6236.4	6216.3	6196.2	6181.6	6170.6	6157.8	6154.2
27.5°	6422.7	6389.8	6355.1	6320.4	6291.2	6251.0	6223.6	6194.3	6168.8	6148.7	6134.1
30°	6541.4	6508.5	6473.8	6433.6	6395.3	6353.3	6307.6	6272.9	6236.4	6196.2	6174.2
32.5°	6698.5	6676.6	6641.9	6603.5	6568.8	6525.0	6470.2	6417.2	6382.5	6335.0	6300.3
35°	6923.2	6897.6	6886.7	6870.2	6835.5	6808.1	6747.8	6698.5	6665.6	6599.9	6574.3
37.5°	7230.1	7228.3	7237.4	7231.9	7237.4	7202.7	7175.3	7173.5	7126.0	7062.0	6999.9
40°	7648.4	7670.3	7719.6	7754.3	7787.2	7790.9	7829.2	7789.1	7794.5	7785.4	7721.5
42.5°	8125.2	8200.1	8258.5	8360.8	8439.4	8512.4	8561.7	8629.3	8680.5	8726.1	8737.1
45°	8656.7	8768.2	8903.3	8994.7	9148.1	9270.5	9438.6	9568.3	9703.4	9836.8	9884.3
47.5°	9234.0	9372.8	9522.6	9692.5	9886.1	10077.9	10337.3	10536.4	10753.8	10934.6	11095.4
50°	9871.5	10015.8	10216.7	10412.2	10678.9	10899.9	11239.7	11500.9	11851.6	12092.8	12301.0
52.5°	10536.4	10717.3	10941.9	11157.5	11429.7	11712.8	12090.9	12476.4	12898.3	13263.7	13566.9
55°	11186.7	11409.6	11625.1	11877.2	12178.6	12507.4	12934.9	13442.7	13968.8	14387.1	14789.0
57.5°	11765.8	12023.3	12277.3	12533.0	12841.7	13223.5	13703.9	14251.9	14854.7	15411.9	15963.5
60°	12302.8	12611.5	12922.1	13241.8	13596.1	14067.4	14644.7	15318.7	16098.7	16860.4	17582.0
62.5°	13152.2	13557.8	13943.2	14356.0	14783.5	15337.0	16018.3	16902.5	17797.5	18749.3	19489.1
65°	14303.1	14873.0	15377.2	15912.4	16465.9	17205.7	18020.4	19078.1	20360.4	21335.9	22523.2
67.5°	14874.8	15625.6	16274.1	16869.6	17554.6	18301.7	19269.9	20521.2	21889.4	23303.2	24627.6
69°	14202.6	14977.1	15695.0	16361.8	17054.1	17779.3	18791.3	20075.4	21522.2	23051.1	24344.4
70°	13331.3	14105.8	14871.2	15631.1	16263.1	16970.0	17985.7	19310.1	20755.0	22344.2	23626.5
72.5°	10213.1	11144.7	11837.0	12549.4	13281.9	13881.1	15053.8	16170.0	17675.2	19288.1	20700.2
75°	6534.1	7390.8	8147.1	8753.5	9469.6	10187.5	11053.4	12293.7	13236.3	14560.6	15706.0
77.5°	3357.5	3611.4	4340.2	4557.6	5054.5	5445.4	5922.2	6232.7	6999.9	7162.5	7838.4
80°	1591.1	1434.0	1349.9	1273.2	1295.1	1286.0	1247.6	1196.5	1260.4	1233.0	1222.1
82.5°	1386.5	1236.7	986.4	838.5	725.2	615.6	529.7	485.9	491.4	506.0	511.5
85°	971.8	913.4	712.4	540.7	422.0	327.0	263.0	252.1	259.4	279.5	272.2
87.5°	281.3	294.1	259.4	180.8	126.0	91.3	71.2	80.4	76.7	74.9	78.5
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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CANDELA DISTRIBUTION (continued):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2
2.5°	5438.1	5436.3	5430.8	5425.3	5425.3	5421.6	5425.3	5427.1	5425.3	5425.3	5421.6
5°	5500.2	5502.0	5507.5	5496.5	5494.7	5496.5	5489.2	5487.4	5481.9	5487.4	5480.1
7.5°	5618.9	5624.4	5624.4	5617.1	5615.3	5620.8	5609.8	5606.1	5600.7	5598.8	5597.0
10°	5796.1	5801.6	5792.5	5787.0	5781.5	5788.8	5779.7	5779.7	5774.2	5768.7	5766.9
12.5°	5993.4	5989.8	5986.1	5989.8	5984.3	5984.3	5978.8	5975.1	5973.3	5971.5	5967.8
15°	6146.8	6159.6	6159.6	6163.3	6159.6	6159.6	6152.3	6154.2	6150.5	6148.7	6150.5
17.5°	6245.5	6249.1	6258.3	6263.8	6263.8	6265.6	6261.9	6265.6	6261.9	6261.9	6269.2
20°	6258.3	6261.9	6271.1	6280.2	6285.7	6289.3	6289.3	6294.8	6298.5	6302.1	6311.3
22.5°	6207.1	6212.6	6223.6	6240.0	6249.1	6252.8	6260.1	6269.2	6278.4	6285.7	6298.5
25°	6154.2	6156.0	6166.9	6183.4	6194.3	6203.5	6216.3	6227.2	6240.0	6254.6	6269.2
27.5°	6124.9	6123.1	6132.2	6148.7	6157.8	6170.6	6181.6	6198.0	6212.6	6230.9	6243.7
30°	6150.5	6135.9	6137.7	6145.0	6152.3	6161.5	6174.2	6188.9	6205.3	6221.7	6236.4
32.5°	6263.8	6230.9	6209.0	6203.5	6205.3	6207.1	6214.4	6223.6	6236.4	6249.1	6254.6
35°	6508.5	6451.9	6422.7	6398.9	6378.8	6362.4	6366.1	6364.2	6364.2	6375.2	6362.4
37.5°	6974.3	6903.1	6872.0	6830.0	6806.3	6746.0	6729.6	6725.9	6702.2	6702.2	6674.8
40°	7705.0	7663.0	7639.3	7600.9	7485.8	7500.4	7418.2	7420.1	7352.5	7359.8	7312.3
42.5°	8744.4	8749.9	8720.7	8695.1	8605.6	8565.4	8488.7	8379.1	8293.2	8291.4	8196.4
45°	9946.4	10012.1	9919.0	9951.9	9873.3	9765.5	9676.0	9535.4	9402.0	9360.0	9263.2
47.5°	11203.2	11310.9	11239.7	11252.5	11214.1	11060.7	10940.1	10766.6	10593.0	10476.1	10417.7
50°	12545.8	12617.0	12615.2	12580.5	12562.2	12412.4	12218.8	12087.3	11959.4	11802.3	11751.2
52.5°	13762.4	13928.6	14040.0	14014.4	13961.5	13872.0	13700.3	13587.0	13398.8	13376.9	13398.8
55°	15064.8	15280.4	15393.6	15530.6	15532.4	15516.0	15444.8	15402.7	15227.4	15247.5	15221.9
57.5°	16297.8	16613.8	16787.4	17079.7	17180.1	17313.5	17264.1	17318.9	17213.0	17282.4	17262.3
60°	17969.3	18407.7	18696.3	19096.3	19282.7	19616.9	19682.7	19722.9	19781.3	19923.8	19843.4
62.5°	20071.8	20714.8	21313.9	21858.3	22037.3	22539.7	22621.9	22936.1	22952.5	23049.3	22872.1
65°	23513.3	24296.9	24956.4	25608.5	25984.8	26573.0	26810.5	27420.6	27234.3	27312.8	26934.7
67.5°	25767.4	26679.0	27563.1	28180.5	28805.2	29406.2	29839.2	30233.7	30230.1	30153.3	29817.2
69°	25568.3	26584.0	27455.3	28282.8	28940.4	29557.8	30078.5	30334.2	30423.7	30312.3	30073.0
70°	24879.7	25922.7	26989.5	27670.9	28386.9	29064.6	29601.7	29881.2	29943.3	29864.7	29658.3
72.5°	21697.6	22698.6	23875.0	24494.2	25360.1	25849.6	26589.5	26951.1	27015.1	26914.6	26779.4
75°	16933.5	17114.4	18312.7	18707.2	19335.6	19900.1	20360.4	20243.5	20570.5	20506.5	20455.4
77.5°	7977.2	7495.0	8271.3	8633.0	8443.0	7937.0	8673.2	8141.6	8494.2	8952.7	8835.8
80°	1315.2	1311.6	1346.3	1423.0	1331.7	1413.9	1412.0	1371.9	1375.5	1474.1	1423.0
82.5°	506.0	517.0	522.4	537.0	537.0	538.9	548.0	559.0	549.8	568.1	564.5
85°	274.0	292.3	275.8	263.0	272.2	277.7	285.0	294.1	285.0	312.4	297.8
87.5°	71.2	74.9	65.8	65.8	63.9	58.5	58.5	62.1	67.6	80.4	87.7
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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CANDELA DISTRIBUTION (continued):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2
2.5°	5414.3	5416.2	5418.0	5412.5	5408.9	5408.9	5407.0	5403.4	5401.6	5401.6	5401.6
5°	5476.4	5480.1	5471.0	5469.1	5465.5	5461.8	5461.8	5458.2	5460.0	5460.0	5450.9
7.5°	5600.7	5595.2	5584.2	5576.9	5584.2	5571.4	5566.0	5569.6	5566.0	5567.8	5564.1
10°	5766.9	5766.9	5754.1	5761.4	5752.3	5737.7	5743.1	5737.7	5734.0	5721.2	5728.5
12.5°	5973.3	5967.8	5960.5	5944.1	5938.6	5936.8	5920.3	5922.2	5916.7	5913.0	5907.6
15°	6154.2	6152.3	6135.9	6126.8	6124.9	6117.6	6110.3	6106.7	6097.5	6095.7	6092.0
17.5°	6274.7	6269.2	6261.9	6252.8	6252.8	6241.8	6238.2	6229.0	6227.2	6221.7	6216.3
20°	6314.9	6316.7	6309.4	6302.1	6298.5	6291.2	6285.7	6278.4	6274.7	6267.4	6261.9
22.5°	6305.8	6305.8	6298.5	6296.6	6289.3	6278.4	6271.1	6261.9	6252.8	6243.7	6232.7
25°	6276.5	6274.7	6269.2	6260.1	6251.0	6234.5	6219.9	6205.3	6192.5	6181.6	6165.1
27.5°	6251.0	6247.3	6236.4	6223.6	6205.3	6187.0	6159.6	6139.5	6123.1	6108.5	6090.2
30°	6241.8	6229.0	6212.6	6192.5	6170.6	6143.2	6114.0	6088.4	6070.1	6055.5	6048.2
32.5°	6252.8	6236.4	6210.8	6185.2	6157.8	6124.9	6095.7	6073.8	6057.3	6053.7	6053.7
35°	6353.3	6325.9	6291.2	6254.6	6219.9	6192.5	6172.4	6170.6	6159.6	6172.4	6192.5
37.5°	6647.4	6623.6	6570.6	6523.1	6499.4	6486.6	6468.3	6472.0	6446.4	6486.6	6519.5
40°	7272.1	7242.9	7180.8	7142.4	7094.9	7049.2	7085.8	7074.8	7093.1	7085.8	7120.5
42.5°	8183.6	8154.4	8055.8	8041.1	8021.0	8002.8	8002.8	7988.2	7980.9	8006.4	7977.2
45°	9292.4	9234.0	9197.4	9241.3	9181.0	9199.3	9263.2	9177.3	9197.4	9078.7	8969.1
47.5°	10443.2	10437.8	10428.6	10481.6	10490.7	10518.1	10552.8	10465.2	10306.2	10216.7	9993.9
50°	11767.6	11824.2	11846.2	11897.3	11919.2	11939.3	11884.5	11754.8	11486.3	11248.8	10985.8
52.5°	13376.9	13278.3	13413.5	13462.8	13440.9	13360.5	13163.2	13004.3	12633.5	12291.9	11884.5
55°	15251.1	15274.9	15179.9	15141.5	15066.6	14843.8	14571.6	14213.6	13744.1	13298.4	12783.3
57.5°	17160.0	17150.9	17002.9	16794.7	16540.8	16272.2	15866.7	15353.4	14805.4	14206.3	13583.3
60°	19481.8	19472.6	19173.1	18816.8	18455.2	18022.2	17386.5	16769.1	16034.8	15247.5	14505.8
62.5°	22532.4	22139.6	21845.5	21313.9	20755.0	20188.7	19328.3	18508.1	17527.2	16533.5	15667.6
65°	26441.5	25794.8	25460.6	24689.7	23823.8	22939.7	22064.7	20987.0	19666.3	18464.3	17406.6
67.5°	29333.2	28741.3	28129.4	27360.3	26410.4	25424.0	24225.7	22868.5	21368.7	20020.6	18868.0
69°	29587.1	29033.6	28299.2	27528.4	26629.6	25557.4	24249.5	22729.6	21209.8	19845.3	18710.9
70°	29201.6	28613.4	27840.7	27038.8	26034.1	25022.1	23652.1	22068.4	20546.7	19178.5	18071.5
72.5°	26326.4	25752.8	24930.8	23971.8	22941.5	22075.7	20775.1	19123.7	17468.7	16204.7	15342.5
75°	20018.8	19892.8	19310.1	18751.1	17940.0	16973.7	15784.5	14673.9	13316.6	11979.5	11175.8
77.5°	8541.7	8832.1	9135.3	9179.2	9208.4	8910.6	8726.1	8446.7	7538.8	7126.0	6700.3
80°	1578.3	1410.2	1505.2	1516.2	1578.3	1611.2	1731.7	2053.2	2089.7	2168.3	2265.1
82.5°	560.8	569.9	584.5	590.0	595.5	617.4	699.6	838.5	964.5	1128.9	1348.1
85°	317.8	323.3	336.1	347.1	354.4	376.3	422.0	504.2	628.4	816.5	1107.0
87.5°	96.8	109.6	116.9	131.5	137.0	140.7	160.7	215.6	277.7	411.0	599.2
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):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2	5405.2
2.5°	5401.6	5399.7	5396.1	5392.4	5394.2	5390.6	5379.6	5376.0	5363.2	5354.1	5346.8
5°	5450.9	5449.0	5441.7	5443.6	5441.7	5423.5	5410.7	5388.8	5376.0	5355.9	5348.6
7.5°	5553.2	5551.3	5538.6	5544.0	5540.4	5513.0	5491.1	5456.4	5438.1	5412.5	5392.4
10°	5706.6	5706.6	5692.0	5693.8	5693.8	5657.3	5618.9	5560.5	5518.5	5478.3	5443.6
12.5°	5892.9	5885.6	5883.8	5874.7	5867.4	5827.2	5768.7	5690.2	5611.6	5545.9	5498.4
15°	6081.1	6070.1	6064.6	6053.7	6044.6	6008.0	5929.5	5832.7	5726.7	5620.8	5542.2
17.5°	6203.5	6196.2	6185.2	6181.6	6168.8	6132.2	6077.4	5980.6	5849.1	5701.1	5582.4
20°	6249.1	6236.4	6229.0	6221.7	6214.4	6188.9	6188.9	6126.8	5980.6	5772.4	5591.5
22.5°	6219.9	6212.6	6201.6	6196.2	6188.9	6192.5	6263.8	6254.6	6086.6	5788.8	5525.8
25°	6152.3	6143.2	6134.1	6134.1	6132.2	6170.6	6342.3	6366.1	6117.6	5708.4	5381.5
27.5°	6082.9	6070.1	6073.8	6075.6	6084.7	6166.9	6428.2	6395.3	6033.6	5514.8	5133.0
30°	6040.9	6040.9	6050.0	6064.6	6082.9	6227.2	6495.7	6329.5	5816.2	5222.5	4804.2
32.5°	6059.2	6077.4	6097.5	6134.1	6161.5	6360.6	6519.5	6159.6	5500.2	4860.9	4460.8
35°	6221.7	6243.7	6282.0	6338.7	6371.5	6552.4	6519.5	5911.2	5133.0	4550.3	4106.4
37.5°	6576.1	6598.0	6643.7	6687.6	6720.4	6793.5	6492.1	5595.2	4826.1	4228.8	3788.6
40°	7146.1	7177.1	7210.0	7202.7	7180.8	7109.5	6437.3	5301.1	4543.0	3947.5	3476.2
42.5°	7948.0	7918.7	7915.1	7843.9	7770.8	7465.7	6397.1	5109.3	4300.1	3651.6	3165.7
45°	8874.1	8755.4	8633.0	8538.0	8426.6	7856.6	6386.1	4954.0	4031.5	3322.8	2827.7
47.5°	9805.7	9615.8	9378.3	9230.3	9049.5	8273.1	6419.0	4745.8	3686.3	2964.7	2511.7
50°	10719.1	10408.5	10114.4	9937.3	9732.7	8751.7	6472.0	4395.0	3273.4	2639.6	2223.1
52.5°	11564.8	11164.8	10863.4	10655.1	10404.9	9308.9	6424.5	3934.7	2915.4	2327.2	1949.1
55°	12368.6	11926.5	11614.2	11395.0	11100.9	9867.8	6081.1	3516.4	2573.8	2022.2	1640.4
57.5°	13071.9	12648.1	12322.9	12025.2	11776.7	10353.7	5403.4	3171.2	2245.0	1673.3	1306.1
60°	13893.9	13417.1	13031.7	12713.8	12421.6	10604.0	4643.5	2864.3	1894.3	1295.1	944.4
62.5°	15002.7	14454.7	14009.0	13645.5	13263.7	10658.8	4124.7	2557.4	1503.4	937.1	686.8
65°	16646.7	15970.8	15413.7	14913.2	14396.2	10432.3	3869.0	2223.1	1117.9	696.0	575.4
67.5°	17952.8	17251.4	16606.5	15963.5	15302.3	10012.1	3812.3	1914.4	858.5	591.9	517.0
69°	17793.9	17125.3	16533.5	15837.5	15105.0	9484.2	3755.7	1795.6	783.7	549.8	489.6
70°	17181.9	16548.1	15947.1	15380.8	14483.9	8896.0	3605.9	1729.9	754.4	529.7	469.5
72.5°	14518.6	13784.3	13201.6	12496.5	11552.1	6610.8	2734.6	1399.3	692.3	484.1	423.8
75°	10589.4	9981.1	9400.2	8620.2	7701.4	3825.1	1702.5	800.1	507.8	438.4	383.6
77.5°	6183.4	6046.4	5485.6	4972.3	4062.6	1947.3	977.3	478.6	394.6	398.2	337.9
80°	2327.2	2478.8	2535.5	2358.3	2179.3	1344.5	710.6	389.1	343.4	392.7	286.8
82.5°	1697.0	1969.2	2002.1	1918.0	1784.7	1253.1	568.1	312.4	279.5	422.0	246.6
85°	1415.7	1567.3	1591.1	1503.4	1459.5	1061.3	396.4	219.2	204.6	303.2	184.5
87.5°	716.1	754.4	774.5	701.5	705.1	495.0	158.9	93.2	111.4	129.7	102.3
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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CANDELA DISTRIBUTION (continued):

	175°	180°
0°	5405.2	5405.2
2.5°	5330.3	5341.3
5°	5337.6	5337.6
7.5°	5379.6	5379.6
10°	5425.3	5427.1
12.5°	5467.3	5465.5
15°	5500.2	5494.7
17.5°	5520.3	5514.8
20°	5500.2	5491.1
22.5°	5397.9	5372.3
25°	5211.6	5178.7
27.5°	4965.0	4943.1
30°	4643.5	4610.6
32.5°	4267.2	4250.7
35°	3907.3	3887.2
37.5°	3578.5	3573.0
40°	3300.8	3271.6
42.5°	2975.7	2962.9
45°	2645.1	2637.8
47.5°	2334.5	2327.2
50°	2047.7	2033.1
52.5°	1766.4	1742.7
55°	1454.1	1437.6
57.5°	1116.1	1101.5
60°	785.5	769.0
62.5°	559.0	540.7
65°	465.8	451.2
67.5°	422.0	405.5
69°	401.9	387.3
70°	389.1	378.1
72.5°	361.7	354.4
75°	330.6	325.2
77.5°	290.4	281.3
80°	243.0	233.8
82.5°	204.6	195.5
85°	137.0	124.2
87.5°	62.1	54.8
90°	0.0	0.0

(END OF REPORT)