

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: P158061

Luminaire Tested: **VST-E10-LED-E-U-RW-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P158061
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-7050
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(10) LIGHTBARS WITH AccuLED OPTICS - RECTANGULAR WIDE
Light Source: (210) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 31967.5 lumens
Efficiency: N/A
Efficacy: 129.1 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

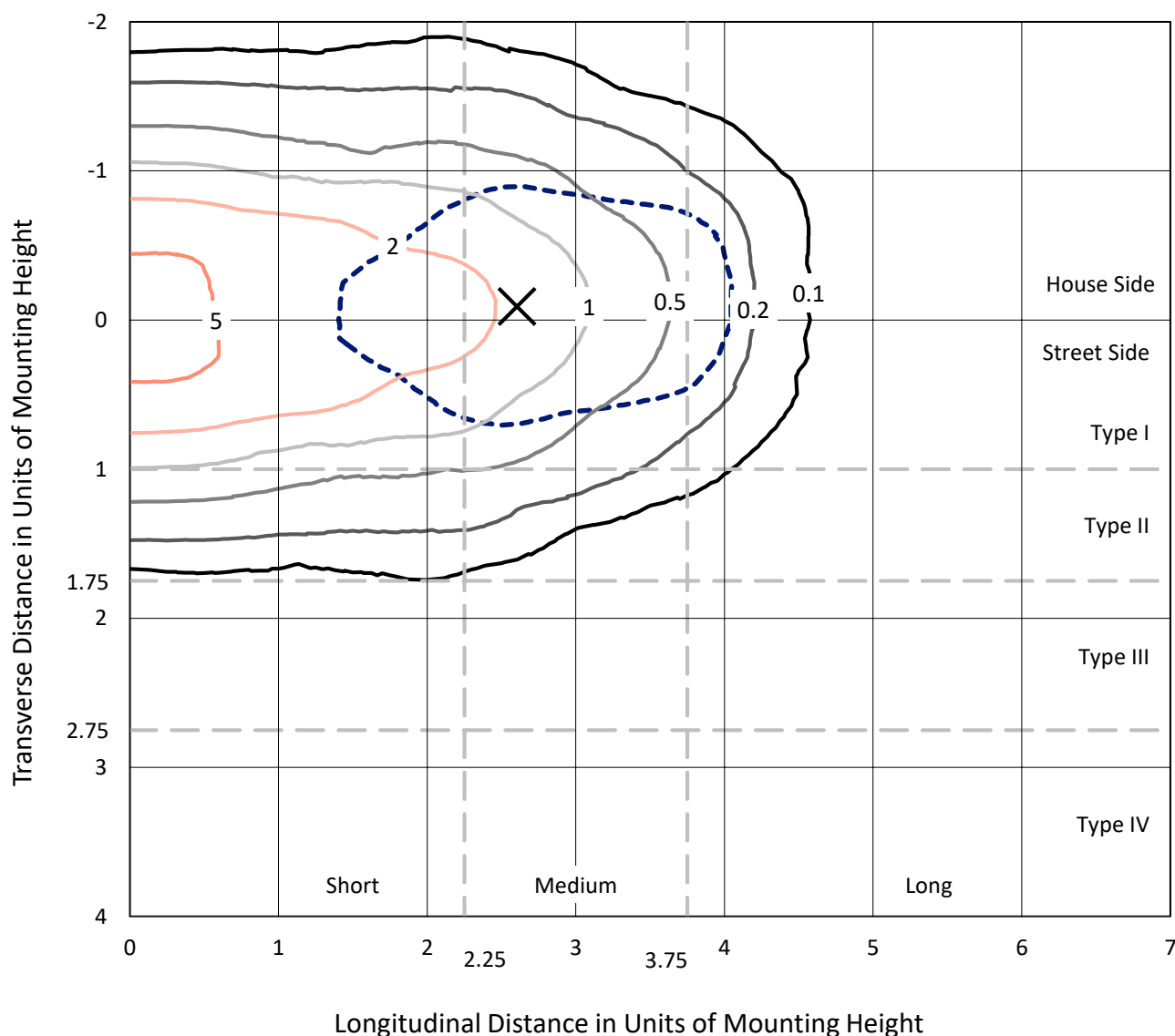


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

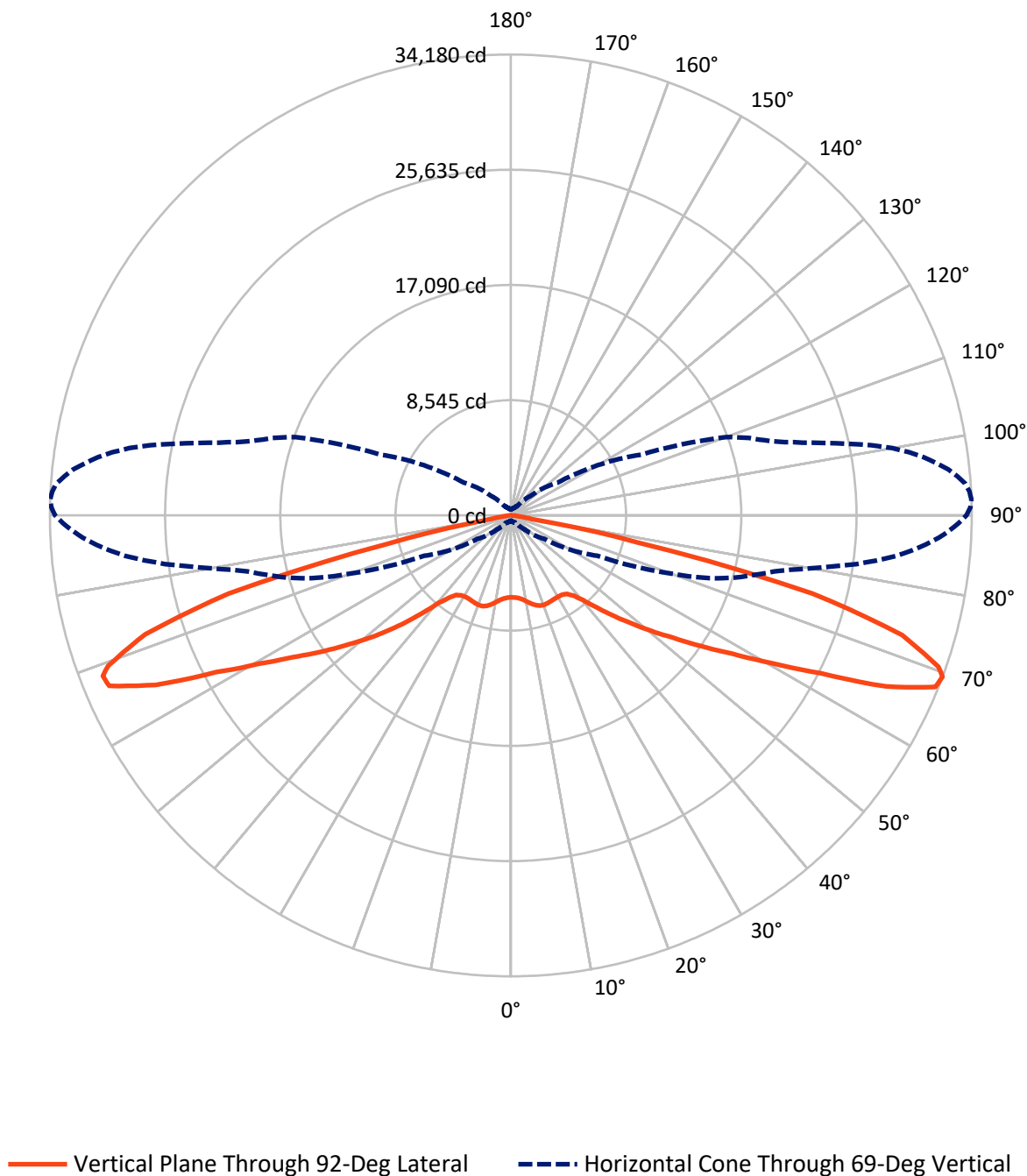


Based on 30 foot mounting height. Maximum calculated value = 6.9 fc
 Type I - Medium - Full Cutoff

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Luminous Intensity Polar Plot



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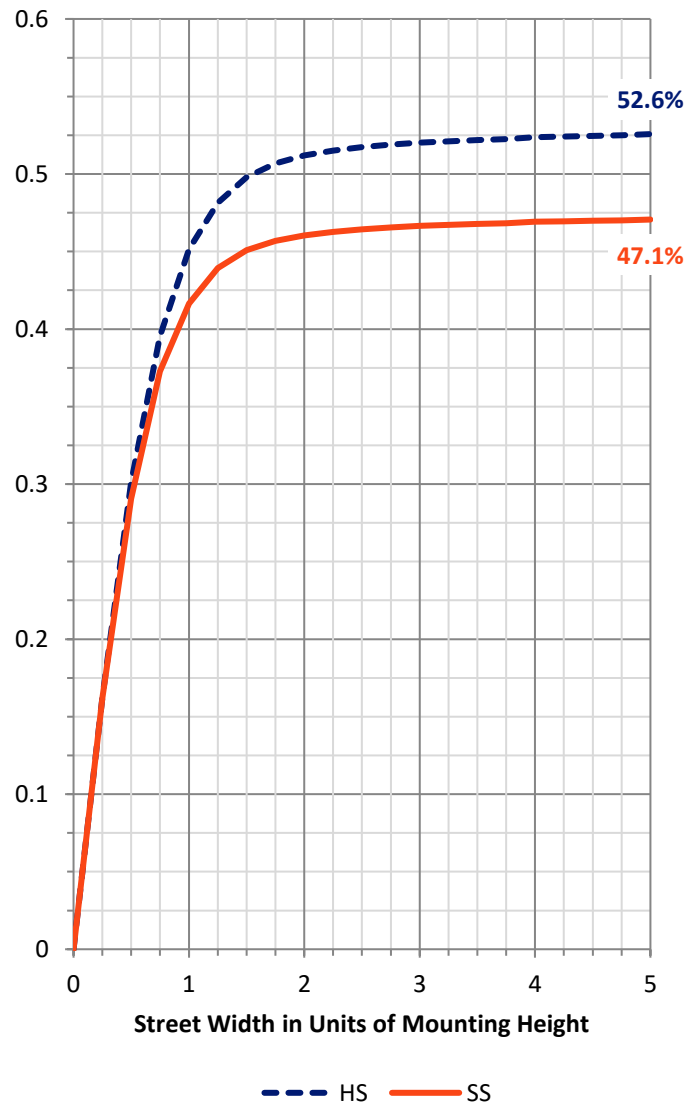
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	16954.0	0.0	16954.0
	% Fixture	53.0	0.0	53.0
Street Side	Lumens	15013.4	0.0	15013.4
	% Fixture	47.0	0.0	47.0
Total	Lumens	31967.5	0.0	31967.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	594.2	1.9
10°-20°	1877.1	5.9
20°-30°	3045.4	9.5
30°-40°	3795.4	11.9
40°-50°	4725.6	14.8
50°-60°	5827.9	18.2
60°-70°	7237.8	22.6
70°-80°	4447.2	13.9
80°-90°	416.8	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°	31967.5	100.0
0°-180°	31967.5	100.0

Coefficient of Utilization



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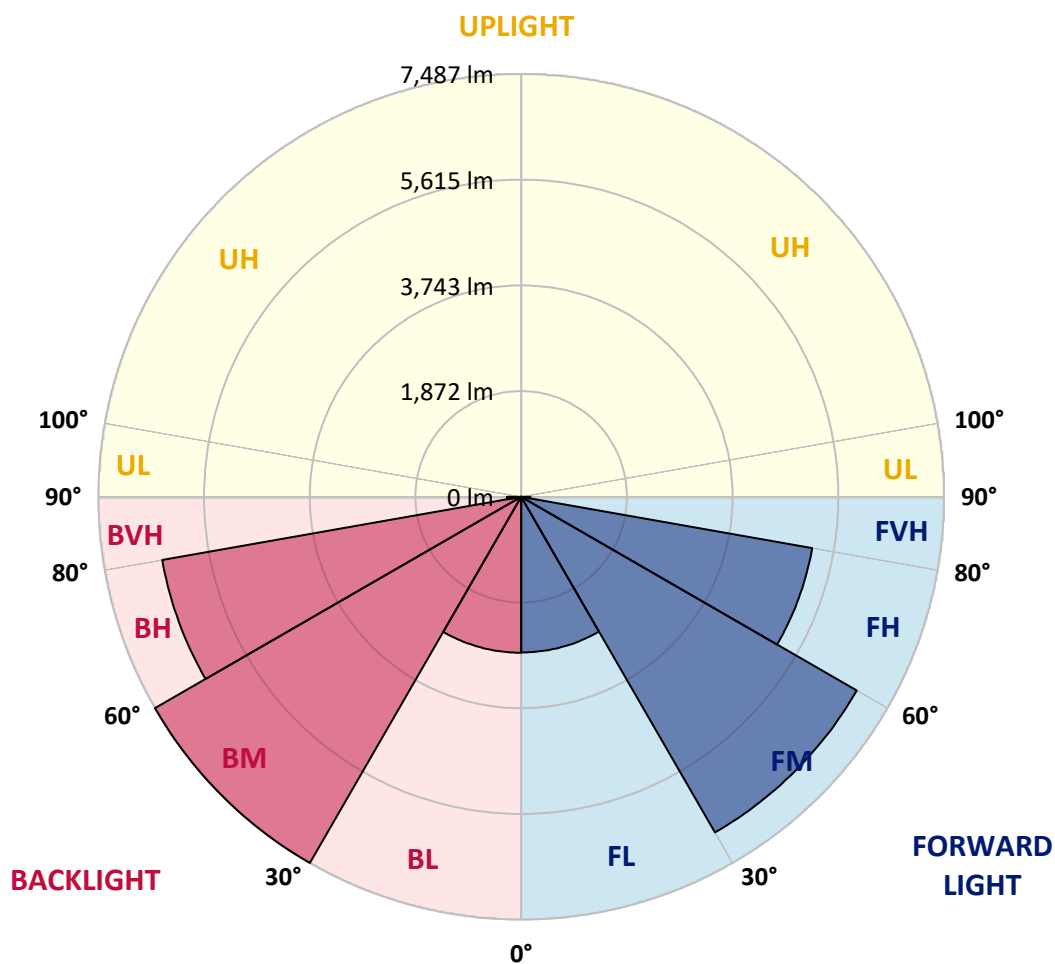
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2755.4	8.6			
FM	(30°-60°)	6862.2	21.5			
FH	(60°-80°)	5232.7	16.4			G3/7500
FVH	(80°-90°)	163.2	0.5			G2/225
BL	(0°-30°)	2761.2	8.6	B4/5000		
BM	(30°-60°)	7486.7	23.4	B4/8500		
BH	(60°-80°)	6452.4	20.2	B5		G5
BVH	(80°-90°)	253.6	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°	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5
2.5°	6168.9	6152.5	6166.9	6168.9	6166.9	6166.9	6148.4	6144.3	6119.7	6125.8	6123.8
5°	6253.1	6246.9	6257.2	6261.3	6265.4	6257.2	6242.8	6236.7	6220.3	6214.1	6212.0
7.5°	6331.1	6320.8	6337.2	6351.6	6361.9	6363.9	6366.0	6355.7	6355.7	6347.5	6347.5
10°	6396.7	6388.5	6415.2	6433.7	6466.5	6485.0	6505.5	6519.9	6528.1	6530.1	6528.1
12.5°	6425.5	6419.3	6462.4	6517.8	6579.4	6622.5	6673.8	6710.7	6721.0	6718.9	6729.2
15°	6376.2	6380.3	6446.0	6554.8	6686.1	6794.9	6866.7	6897.5	6905.7	6909.8	6911.8
17.5°	6242.8	6251.0	6345.4	6521.9	6751.8	6948.8	7055.5	7055.5	7039.1	7039.1	7037.0
20°	6029.4	6037.6	6160.7	6415.2	6753.8	7055.5	7207.4	7176.6	7115.0	7102.7	7090.4
22.5°	5733.9	5766.7	5902.2	6197.7	6665.6	7086.3	7301.8	7256.6	7160.2	7133.5	7115.0
25°	5399.4	5395.3	5557.4	5889.8	6452.2	7012.4	7328.4	7320.2	7217.6	7188.9	7156.1
27.5°	5017.7	5030.0	5179.8	5516.3	6125.8	6799.0	7283.3	7392.1	7307.9	7279.2	7248.4
30°	4625.7	4638.0	4779.6	5171.6	5754.4	6493.2	7190.9	7461.8	7429.0	7406.4	7385.9
32.5°	4231.7	4235.8	4404.0	4824.7	5440.4	6127.9	7051.4	7525.5	7570.6	7560.3	7552.1
35°	3862.3	3866.4	4049.0	4475.9	5130.5	5816.0	6883.1	7617.8	7763.5	7775.8	7784.0
37.5°	3503.1	3509.3	3696.0	4143.4	4824.7	5580.0	6696.4	7759.4	8034.4	8079.6	8087.8
40°	3146.0	3152.2	3330.7	3804.8	4514.9	5372.7	6552.7	7958.5	8399.7	8461.3	8524.9
42.5°	2805.4	2827.9	2979.8	3433.3	4170.1	5116.2	6491.1	8200.6	8832.7	8929.2	9001.0
45°	2487.3	2489.3	2661.7	3086.5	3761.7	4769.3	6450.1	8475.6	9317.0	9462.7	9561.3
47.5°	2146.6	2171.2	2351.8	2764.3	3380.0	4340.4	6318.8	8797.8	9844.5	10014.8	10213.9
50°	1816.2	1851.1	2025.5	2433.9	3031.1	3897.1	5965.8	9175.4	10437.5	10659.2	10889.0
52.5°	1498.1	1496.1	1680.8	2105.6	2680.2	3521.6	5393.2	9571.5	11123.0	11361.0	11609.4
55°	1132.8	1132.8	1315.5	1703.3	2300.5	3187.1	4779.6	9817.8	11759.2	12046.5	12317.4
57.5°	777.8	798.3	970.7	1305.2	1904.5	2881.3	4309.6	9676.2	12245.5	12602.6	12924.8
60°	576.7	597.2	724.4	937.9	1489.9	2520.1	3956.7	9009.2	12539.0	13013.1	13431.7
62.5°	498.7	513.1	634.1	751.1	1073.3	2136.4	3644.7	8161.6	12961.8	13610.3	14193.1
65°	445.3	459.7	580.8	648.5	839.4	1717.7	3470.3	7677.3	13466.6	14457.8	15303.3
67.5°	412.5	428.9	531.5	580.8	732.6	1553.5	3334.8	7564.4	13462.5	14665.1	15744.6
69°	396.1	408.4	492.5	545.9	708.0	1504.3	3041.4	7074.0	12573.9	13864.7	14948.3
70°	385.8	398.1	470.0	523.3	699.8	1416.0	2770.5	6425.5	11562.2	12861.2	13961.2
72.5°	353.0	365.3	418.7	467.9	582.8	946.1	1931.1	4112.6	8262.2	9189.8	10447.8
75°	311.9	326.3	367.3	408.4	441.2	547.9	1114.4	2134.3	4724.2	5428.1	6548.6
77.5°	254.5	268.8	311.9	377.6	373.5	416.6	724.4	1311.4	2212.3	2743.8	3158.4
80°	209.3	219.6	256.5	381.7	305.8	348.9	586.9	1075.4	1557.6	1721.8	1820.3
82.5°	139.6	153.9	199.1	299.6	234.0	248.3	439.2	1005.6	1317.5	1444.8	1563.8
85°	65.7	71.8	121.1	160.1	141.6	133.4	250.4	710.1	981.0	1040.5	1085.6
87.5°	0.0	0.0	6.2	12.3	18.5	18.5	45.1	149.8	275.0	332.5	328.4
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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CANDELA DISTRIBUTION (continued):

	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°	83°
0°	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5
2.5°	6115.6	6117.6	6115.6	6115.6	6113.5	6109.4	6109.4	6105.3	6107.4	6105.3	6109.4
5°	6210.0	6210.0	6203.8	6199.7	6205.9	6199.7	6201.8	6191.5	6191.5	6185.4	6177.2
7.5°	6345.4	6345.4	6347.5	6335.2	6343.4	6345.4	6339.3	6335.2	6331.1	6320.8	6322.9
10°	6526.0	6526.0	6532.2	6515.8	6524.0	6528.1	6530.1	6530.1	6526.0	6507.6	6509.6
12.5°	6727.1	6723.0	6725.1	6716.9	6725.1	6729.2	6733.3	6729.2	6729.2	6725.1	6723.0
15°	6909.8	6907.7	6911.8	6905.7	6907.7	6911.8	6924.2	6922.1	6920.1	6907.7	6907.7
17.5°	7035.0	7028.8	7024.7	7022.7	7022.7	7020.6	7022.7	7022.7	7016.5	7014.5	7014.5
20°	7082.2	7065.8	7055.5	7049.3	7041.1	7037.0	7032.9	7035.0	7030.9	7024.7	7026.8
22.5°	7090.4	7067.8	7047.3	7028.8	7012.4	7002.1	6991.9	6987.8	6977.5	6971.4	6971.4
25°	7129.4	7094.5	7061.7	7030.9	7006.2	6983.7	6961.1	6944.7	6932.4	6918.0	6913.9
27.5°	7215.6	7178.6	7139.6	7100.6	7067.8	7022.7	6991.9	6959.0	6930.3	6907.7	6891.3
30°	7349.0	7312.0	7273.0	7227.9	7184.8	7137.6	7086.3	7047.3	7006.2	6961.1	6936.5
32.5°	7525.5	7500.8	7461.8	7418.7	7379.8	7330.5	7268.9	7209.4	7170.4	7117.1	7078.1
35°	7777.9	7749.1	7736.8	7718.4	7679.4	7648.6	7580.9	7525.5	7488.5	7414.6	7385.9
37.5°	8122.7	8120.6	8130.9	8124.7	8130.9	8091.9	8061.1	8059.0	8005.7	7933.8	7864.1
40°	8592.6	8617.2	8672.6	8711.6	8748.6	8752.7	8795.8	8750.6	8756.8	8746.5	8674.7
42.5°	9128.2	9212.4	9278.0	9393.0	9481.2	9563.3	9618.7	9694.6	9752.1	9803.4	9815.7
45°	9725.4	9850.6	10002.5	10105.1	10277.5	10415.0	10603.8	10749.5	10901.3	11051.2	11104.5
47.5°	10373.9	10529.9	10698.2	10889.0	11106.6	11322.0	11613.5	11837.2	12081.4	12284.5	12465.1
50°	11090.1	11252.3	11478.0	11697.6	11997.2	12245.5	12627.3	12920.7	13314.7	13585.6	13819.6
52.5°	11837.2	12040.3	12292.7	12534.9	12840.7	13158.8	13583.6	14016.6	14490.7	14901.1	15241.8
55°	12567.7	12818.1	13060.3	13343.5	13682.1	14051.5	14531.7	15102.2	15693.3	16163.2	16614.7
57.5°	13218.3	13507.7	13792.9	14080.2	14427.0	14856.0	15395.7	16011.3	16688.6	17314.5	17934.3
60°	13821.6	14168.5	14517.3	14876.5	15274.6	15804.1	16452.6	17209.8	18086.1	18941.9	19752.5
62.5°	14775.9	15231.5	15664.5	16128.3	16608.5	17230.4	17995.8	18989.1	19994.7	21063.9	21895.0
65°	16068.8	16709.1	17275.5	17876.8	18498.6	19329.8	20245.1	21433.3	22873.9	23969.8	25303.8
67.5°	16711.2	17554.6	18283.1	18952.2	19721.7	20561.1	21648.8	23054.5	24591.6	26180.1	27667.9
69°	15955.9	16826.1	17632.6	18381.7	19159.4	19974.2	21111.1	22553.8	24179.1	25896.8	27349.8
70°	14977.0	15847.2	16707.0	17560.8	18270.8	19065.0	20206.1	21693.9	23317.2	25102.6	26543.3
72.5°	11473.9	12520.5	13298.3	14098.7	14921.6	15594.8	16912.3	18166.2	19857.2	21669.3	23255.7
75°	7340.8	8303.2	9152.9	9834.2	10638.7	11445.2	12417.9	13811.4	14870.3	16358.2	17644.9
77.5°	3772.0	4057.2	4876.1	5120.3	5678.5	6117.6	6653.3	7002.1	7864.1	8046.7	8806.0
80°	1787.5	1611.0	1516.6	1430.4	1455.0	1444.8	1401.7	1344.2	1416.0	1385.2	1372.9
82.5°	1557.6	1389.3	1108.2	942.0	814.7	691.6	595.1	545.9	552.0	568.5	574.6
85°	1091.8	1026.1	800.4	607.5	474.1	367.3	295.5	283.2	291.4	314.0	305.8
87.5°	316.0	330.4	291.4	203.2	141.6	102.6	80.0	90.3	86.2	84.1	88.2
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):

	84°	85°	86°	87°	88°	89°	90°	91°	92°	93°	94°
0°	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5
2.5°	6109.4	6107.4	6101.2	6095.1	6095.1	6091.0	6095.1	6097.1	6095.1	6095.1	6091.0
5°	6179.2	6181.3	6187.4	6175.1	6173.1	6175.1	6166.9	6164.8	6158.7	6164.8	6156.6
7.5°	6312.6	6318.8	6318.8	6310.5	6308.5	6314.7	6302.3	6298.2	6292.1	6290.0	6288.0
10°	6511.7	6517.8	6507.6	6501.4	6495.2	6503.5	6493.2	6493.2	6487.0	6480.9	6478.8
12.5°	6733.3	6729.2	6725.1	6729.2	6723.0	6723.0	6716.9	6712.8	6710.7	6708.7	6704.6
15°	6905.7	6920.1	6920.1	6924.2	6920.1	6920.1	6911.8	6913.9	6909.8	6907.7	6909.8
17.5°	7016.5	7020.6	7030.9	7037.0	7037.0	7039.1	7035.0	7039.1	7035.0	7035.0	7043.2
20°	7030.9	7035.0	7045.2	7055.5	7061.7	7065.8	7065.8	7071.9	7076.0	7080.1	7090.4
22.5°	6973.4	6979.6	6991.9	7010.4	7020.6	7024.7	7032.9	7043.2	7053.4	7061.7	7076.0
25°	6913.9	6916.0	6928.3	6946.7	6959.0	6969.3	6983.7	6996.0	7010.4	7026.8	7043.2
27.5°	6881.1	6879.0	6889.3	6907.7	6918.0	6932.4	6944.7	6963.2	6979.6	7000.1	7014.5
30°	6909.8	6893.4	6895.4	6903.6	6911.8	6922.1	6936.5	6952.9	6971.4	6989.8	7006.2
32.5°	7037.0	7000.1	6975.5	6969.3	6971.4	6973.4	6981.6	6991.9	7006.2	7020.6	7026.8
35°	7312.0	7248.4	7215.6	7188.9	7166.3	7147.9	7152.0	7149.9	7149.9	7162.2	7147.9
37.5°	7835.3	7755.3	7720.4	7673.2	7646.5	7578.8	7560.3	7556.2	7529.6	7529.6	7498.8
40°	8656.2	8609.0	8582.3	8539.2	8410.0	8426.4	8334.0	8336.1	8260.1	8268.4	8215.0
42.5°	9823.9	9830.1	9797.3	9768.5	9668.0	9622.8	9536.6	9413.5	9317.0	9315.0	9208.3
45°	11174.3	11248.2	11143.5	11180.4	11092.2	10971.1	10870.6	10712.5	10562.7	10515.5	10406.8
47.5°	12586.2	12707.3	12627.3	12641.6	12598.5	12426.1	12290.7	12095.7	11900.8	11769.4	11703.8
50°	14094.6	14174.6	14172.6	14133.6	14113.1	13944.8	13727.2	13579.5	13435.8	13259.3	13201.9
52.5°	15461.4	15648.1	15773.3	15744.6	15685.0	15584.5	15391.6	15264.3	15053.0	15028.3	15053.0
55°	16924.6	17166.7	17294.0	17447.9	17449.9	17431.5	17351.4	17304.2	17107.2	17129.8	17101.1
57.5°	18309.8	18664.9	18859.8	19188.2	19301.0	19450.9	19395.4	19457.0	19338.0	19416.0	19393.4
60°	20187.6	20680.1	21004.4	21453.8	21663.1	22038.7	22112.6	22157.7	22223.4	22383.5	22293.2
62.5°	22549.7	23272.1	23945.2	24556.8	24757.9	25322.2	25414.6	25767.6	25786.0	25894.8	25695.7
65°	26416.1	27296.5	28037.3	28769.9	29192.7	29853.5	30120.3	30805.7	30596.4	30684.7	30259.8
67.5°	28948.5	29972.5	30965.8	31659.5	32361.3	33036.5	33522.9	33966.1	33962.0	33875.8	33498.2
69°	28724.8	29865.8	30844.7	31774.4	32513.2	33206.8	33791.7	34079.0	34179.6	34054.4	33785.5
70°	27951.1	29122.9	30321.4	31086.9	31891.4	32652.7	33256.1	33570.1	33639.8	33551.6	33319.7
72.5°	24376.2	25500.8	26822.4	27518.1	28490.8	29040.8	29872.0	30278.3	30350.1	30237.3	30085.4
75°	19024.0	19227.2	20573.4	21016.7	21722.7	22356.8	22873.9	22742.6	23109.9	23038.1	22980.7
77.5°	8962.0	8420.2	9292.4	9698.7	9485.3	8916.9	9743.9	9146.7	9542.8	10057.9	9926.5
80°	1477.6	1473.5	1512.5	1598.7	1496.1	1588.4	1586.4	1541.2	1545.3	1656.1	1598.7
82.5°	568.5	580.8	586.9	603.4	603.4	605.4	615.7	628.0	617.7	638.2	634.1
85°	307.8	328.4	309.9	295.5	305.8	311.9	320.1	330.4	320.1	350.9	334.5
87.5°	80.0	84.1	73.9	73.9	71.8	65.7	65.7	69.8	75.9	90.3	98.5
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):

	95°	96°	97°	98°	99°	100°	101°	102°	103°	104°	105°
0°	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5
2.5°	6082.8	6084.8	6086.9	6080.7	6076.6	6076.6	6074.5	6070.4	6068.4	6068.4	6068.4
5°	6152.5	6156.6	6146.4	6144.3	6140.2	6136.1	6136.1	6132.0	6134.1	6134.1	6123.8
7.5°	6292.1	6285.9	6273.6	6265.4	6273.6	6259.2	6253.1	6257.2	6253.1	6255.1	6251.0
10°	6478.8	6478.8	6464.5	6472.7	6462.4	6446.0	6452.2	6446.0	6441.9	6427.5	6435.7
12.5°	6710.7	6704.6	6696.4	6677.9	6671.7	6669.7	6651.2	6653.3	6647.1	6643.0	6636.8
15°	6913.9	6911.8	6893.4	6883.1	6881.1	6872.9	6864.6	6860.5	6850.3	6848.2	6844.1
17.5°	7049.3	7043.2	7035.0	7024.7	7024.7	7012.4	7008.3	6998.0	6996.0	6989.8	6983.7
20°	7094.5	7096.5	7088.3	7080.1	7076.0	7067.8	7061.7	7053.4	7049.3	7041.1	7035.0
22.5°	7084.2	7084.2	7076.0	7074.0	7065.8	7053.4	7045.2	7035.0	7024.7	7014.5	7002.1
25°	7051.4	7049.3	7043.2	7032.9	7022.7	7004.2	6987.8	6971.4	6957.0	6944.7	6926.2
27.5°	7022.7	7018.6	7006.2	6991.9	6971.4	6950.8	6920.1	6897.5	6879.0	6862.6	6842.1
30°	7012.4	6998.0	6979.6	6957.0	6932.4	6901.6	6868.7	6840.0	6819.5	6803.1	6794.9
32.5°	7024.7	7006.2	6977.5	6948.8	6918.0	6881.1	6848.2	6823.6	6805.1	6801.0	6801.0
35°	7137.6	7106.8	7067.8	7026.8	6987.8	6957.0	6934.4	6932.4	6920.1	6934.4	6957.0
37.5°	7468.0	7441.3	7381.8	7328.4	7301.8	7287.4	7266.9	7271.0	7242.3	7287.4	7324.3
40°	8169.9	8137.0	8067.2	8024.1	7970.8	7919.5	7960.5	7948.2	7968.7	7960.5	7999.5
42.5°	9193.9	9161.1	9050.2	9033.8	9011.3	8990.7	8990.7	8974.3	8966.1	8994.8	8962.0
45°	10439.6	10373.9	10332.9	10382.1	10314.4	10334.9	10406.8	10310.3	10332.9	10199.5	10076.4
47.5°	11732.5	11726.3	11716.1	11775.6	11785.8	11816.6	11855.6	11757.1	11578.6	11478.0	11227.6
50°	13220.3	13284.0	13308.6	13366.0	13390.7	13413.3	13351.7	13206.0	12904.3	12637.5	12342.0
52.5°	15028.3	14917.5	15069.4	15124.8	15100.2	15009.9	14788.2	14609.7	14193.1	13809.3	13351.7
55°	17133.9	17160.6	17053.9	17010.8	16926.6	16676.3	16370.5	15968.3	15440.8	14940.1	14361.4
57.5°	19278.5	19268.2	19102.0	18868.0	18582.8	18281.1	17825.5	17248.8	16633.2	15960.0	15260.2
60°	21886.8	21876.6	21540.0	21139.8	20733.5	20247.1	19532.9	18839.3	18014.3	17129.8	16296.6
62.5°	25314.0	24872.8	24542.4	23945.2	23317.2	22681.0	21714.4	20793.0	19691.0	18574.6	17601.8
65°	29705.8	28979.3	28603.7	27737.7	26764.9	25771.7	24788.7	23577.9	22094.1	20743.7	19555.5
67.5°	32954.4	32289.5	31602.0	30738.0	29670.9	28562.7	27216.4	25691.6	24006.8	22492.2	21197.3
69°	33239.7	32617.8	31792.9	30926.8	29917.1	28712.5	27243.1	25535.7	23828.2	22295.2	21020.8
70°	32806.6	32145.8	31277.7	30376.8	29248.1	28111.2	26572.0	24792.8	23083.3	21546.2	20302.5
72.5°	29576.5	28932.1	28008.6	26931.2	25773.7	24801.0	23339.8	21484.6	19625.3	18205.2	17236.5
75°	22490.2	22348.6	21693.9	21065.9	20154.8	19069.1	17733.2	16485.4	14960.6	13458.4	12555.4
77.5°	9596.1	9922.4	10263.1	10312.4	10345.2	10010.7	9803.4	9489.4	8469.5	8005.7	7527.5
80°	1773.1	1584.3	1691.0	1703.3	1773.1	1810.0	1945.5	2306.7	2347.7	2436.0	2544.7
82.5°	630.0	640.3	656.7	662.9	669.0	693.6	786.0	942.0	1083.6	1268.3	1514.5
85°	357.1	363.2	377.6	389.9	398.1	422.8	474.1	566.4	706.0	917.3	1243.6
87.5°	108.8	123.1	131.3	147.8	153.9	158.0	180.6	242.2	311.9	461.7	673.1
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-E10-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	106°	107°	108°	109°	110°	115°	125°	135°	145°	155°	165°
0°	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5	6072.5
2.5°	6068.4	6066.3	6062.2	6058.1	6060.2	6056.1	6043.8	6039.7	6025.3	6015.0	6006.8
5°	6123.8	6121.7	6113.5	6115.6	6113.5	6093.0	6078.6	6054.0	6039.7	6017.1	6008.9
7.5°	6238.7	6236.7	6222.3	6228.5	6224.4	6193.6	6168.9	6130.0	6109.4	6080.7	6058.1
10°	6411.1	6411.1	6394.7	6396.7	6396.7	6355.7	6312.6	6246.9	6199.7	6154.6	6115.6
12.5°	6620.4	6612.2	6610.2	6599.9	6591.7	6546.6	6480.9	6392.6	6304.4	6230.5	6177.2
15°	6831.8	6819.5	6813.3	6801.0	6790.8	6749.7	6661.5	6552.7	6433.7	6314.7	6226.4
17.5°	6969.3	6961.1	6948.8	6944.7	6930.3	6889.3	6827.7	6718.9	6571.2	6405.0	6271.6
20°	7020.6	7006.2	6998.0	6989.8	6981.6	6952.9	6952.9	6883.1	6718.9	6485.0	6281.8
22.5°	6987.8	6979.6	6967.3	6961.1	6952.9	6957.0	7037.0	7026.8	6838.0	6503.5	6207.9
25°	6911.8	6901.6	6891.3	6891.3	6889.3	6932.4	7125.3	7152.0	6872.9	6413.2	6045.8
27.5°	6833.9	6819.5	6823.6	6825.7	6835.9	6928.3	7221.7	7184.8	6778.5	6195.6	5766.7
30°	6786.7	6786.7	6796.9	6813.3	6833.9	6996.0	7297.7	7110.9	6534.2	5867.3	5397.3
32.5°	6807.2	6827.7	6850.3	6891.3	6922.1	7145.8	7324.3	6920.1	6179.2	5460.9	5011.5
35°	6989.8	7014.5	7057.6	7121.2	7158.1	7361.3	7324.3	6641.0	5766.7	5112.1	4613.4
37.5°	7388.0	7412.6	7463.9	7513.1	7550.1	7632.2	7293.6	6285.9	5421.9	4750.9	4256.3
40°	8028.2	8063.1	8100.1	8091.9	8067.2	7987.2	7232.0	5955.5	5103.8	4434.8	3905.4
42.5°	8929.2	8896.3	8892.2	8812.2	8730.1	8387.4	7186.8	5740.0	4830.9	4102.4	3556.5
45°	9969.6	9836.2	9698.7	9592.0	9466.8	8826.6	7174.5	5565.6	4529.2	3733.0	3176.8
47.5°	11016.3	10802.8	10536.1	10369.8	10166.7	9294.5	7211.5	5331.6	4141.4	3330.7	2821.8
50°	12042.4	11693.5	11363.1	11164.0	10934.2	9832.1	7271.0	4937.6	3677.6	2965.4	2497.5
52.5°	12992.5	12543.1	12204.5	11970.5	11689.4	10458.1	7217.6	4420.5	3275.3	2614.5	2189.7
55°	13895.5	13398.9	13048.0	12801.7	12471.3	11086.0	6831.8	3950.5	2891.6	2271.8	1842.9
57.5°	14685.6	14209.5	13844.2	13509.7	13230.6	11631.9	6070.4	3562.6	2522.2	1879.8	1467.3
60°	15609.1	15073.5	14640.5	14283.4	13955.0	11913.1	5216.7	3217.9	2128.1	1455.0	1061.0
62.5°	16854.8	16239.1	15738.4	15330.0	14901.1	11974.7	4633.9	2873.1	1689.0	1052.8	771.6
65°	18701.8	17942.5	17316.6	16754.2	16173.5	11720.2	4346.6	2497.5	1256.0	781.9	646.4
67.5°	20169.1	19381.1	18656.6	17934.3	17191.4	11248.2	4283.0	2150.7	964.5	664.9	580.8
69°	19990.6	19239.5	18574.6	17792.7	16969.7	10655.1	4219.3	2017.3	880.4	617.7	550.0
70°	19303.1	18591.0	17915.8	17279.6	16272.0	9994.3	4051.1	1943.4	847.6	595.1	527.4
72.5°	16311.0	15486.0	14831.3	14039.2	12978.2	7427.0	3072.2	1572.0	777.8	543.8	476.1
75°	11896.7	11213.3	10560.7	9684.4	8652.1	4297.3	1912.7	898.9	570.5	492.5	431.0
77.5°	6946.7	6792.8	6162.8	5586.1	4564.1	2187.7	1097.9	537.7	443.3	447.4	379.7
80°	2614.5	2784.9	2848.5	2649.4	2448.3	1510.4	798.3	437.1	385.8	441.2	322.2
82.5°	1906.5	2212.3	2249.2	2154.8	2005.0	1407.8	638.2	350.9	314.0	474.1	277.0
85°	1590.5	1760.8	1787.5	1689.0	1639.7	1192.3	445.3	246.3	229.8	340.7	207.3
87.5°	804.5	847.6	870.1	788.0	792.2	556.1	178.5	104.7	125.2	145.7	114.9
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-E10-LED-E-U-RW-7050

CANDELA DISTRIBUTION (continued):

	175°	180°
0°	6072.5	6072.5
2.5°	5988.4	6000.7
5°	5996.6	5996.6
7.5°	6043.8	6043.8
10°	6095.1	6097.1
12.5°	6142.3	6140.2
15°	6179.2	6173.1
17.5°	6201.8	6195.6
20°	6179.2	6168.9
22.5°	6064.3	6035.6
25°	5855.0	5818.0
27.5°	5577.9	5553.3
30°	5216.7	5179.8
32.5°	4794.0	4775.5
35°	4389.7	4367.1
37.5°	4020.3	4014.1
40°	3708.3	3675.5
42.5°	3343.1	3328.7
45°	2971.6	2963.4
47.5°	2622.7	2614.5
50°	2300.5	2284.1
52.5°	1984.5	1957.8
55°	1633.6	1615.1
57.5°	1253.9	1237.5
60°	882.5	864.0
62.5°	628.0	607.5
65°	523.3	506.9
67.5°	474.1	455.6
69°	451.5	435.1
70°	437.1	424.8
72.5°	406.3	398.1
75°	371.5	365.3
77.5°	326.3	316.0
80°	272.9	262.7
82.5°	229.8	219.6
85°	153.9	139.6
87.5°	69.8	61.6
90°	0.0	0.0

(END OF REPORT)