

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: P165046

Luminaire Tested: **VST-E05-LED-E-U-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165046
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)
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-SL2-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8273.4 lumens
Efficiency: N/A
Efficacy: 65.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 127.3
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

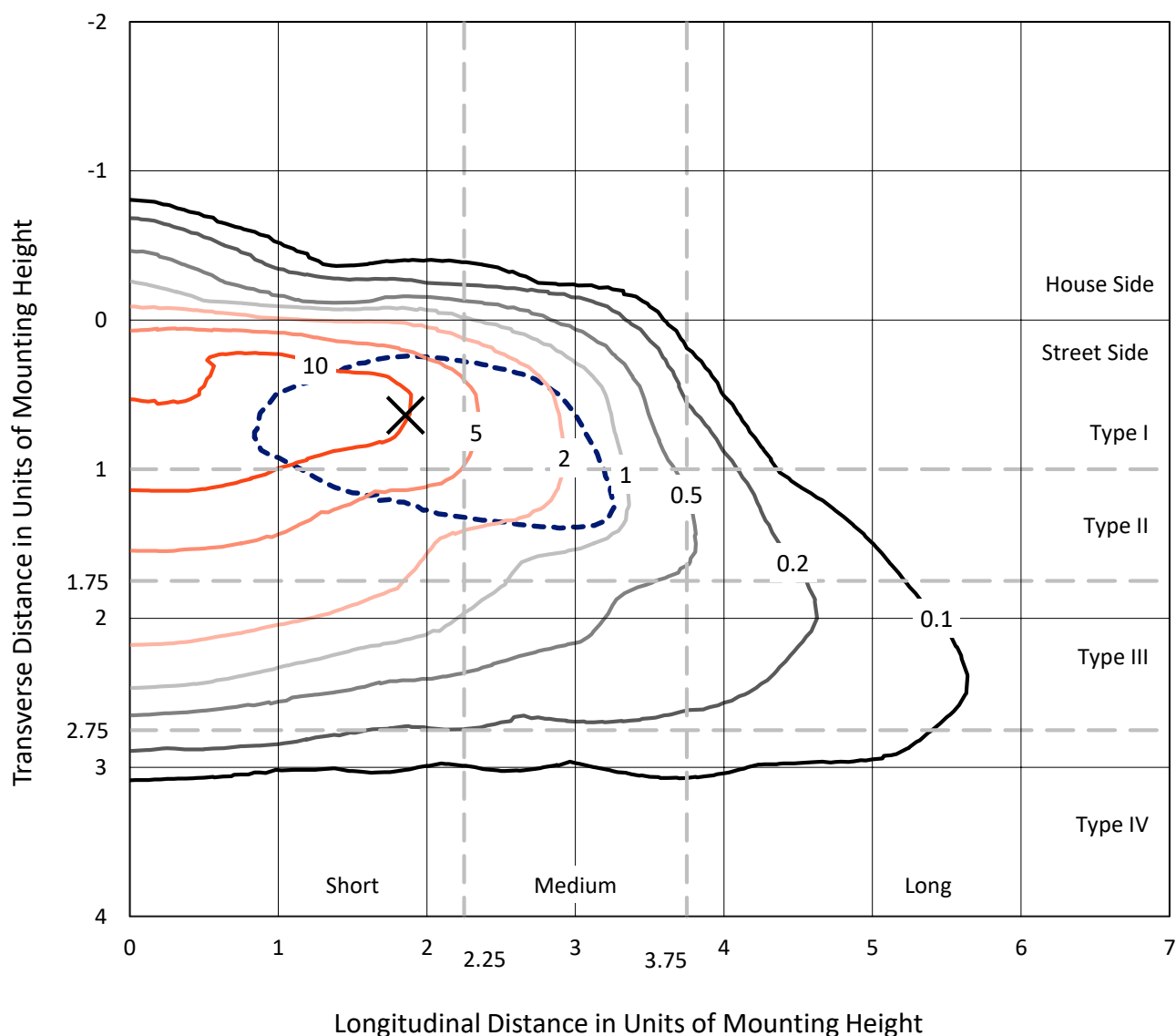


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

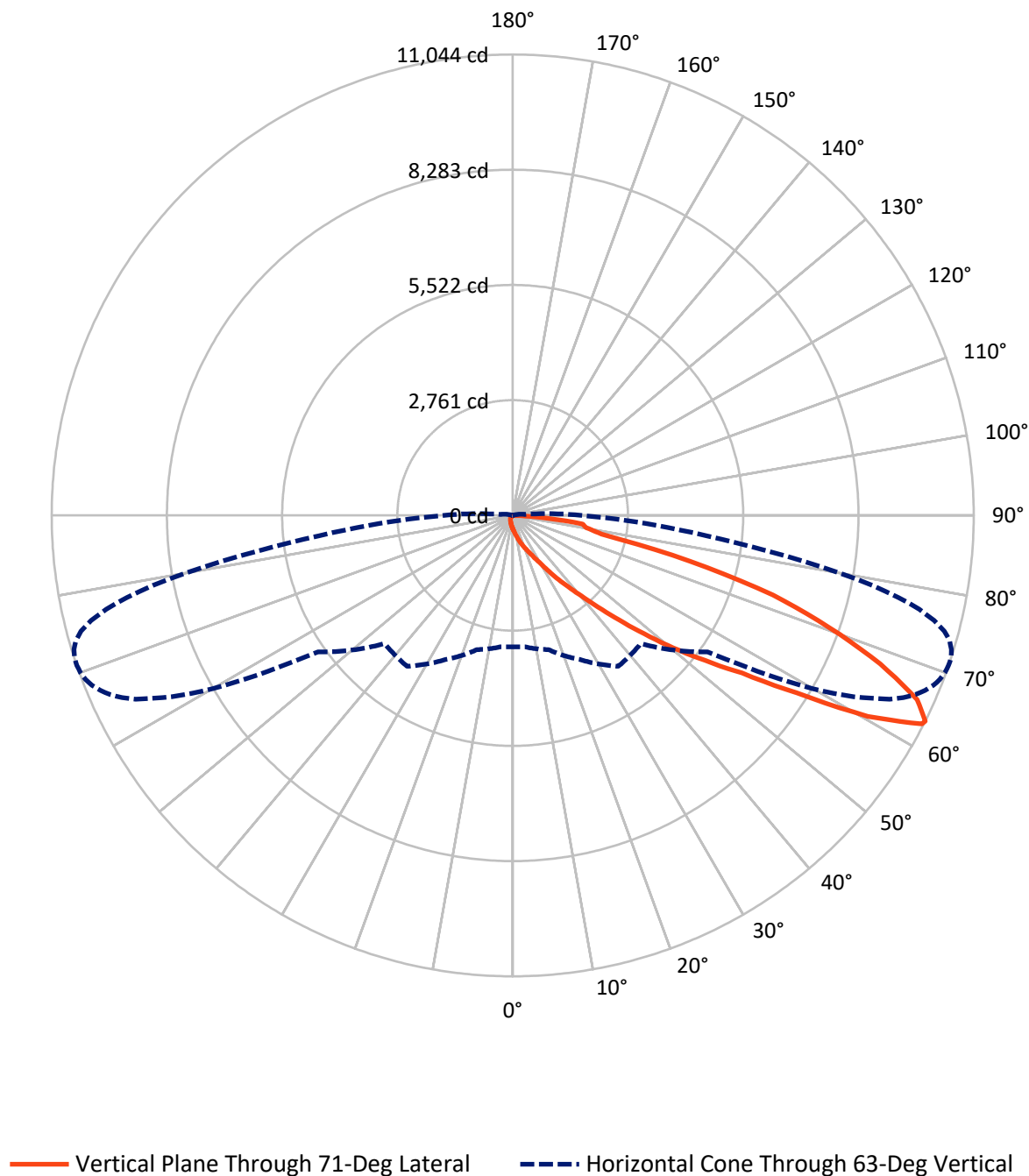


Based on 10 foot mounting height. Maximum calculated value = 17.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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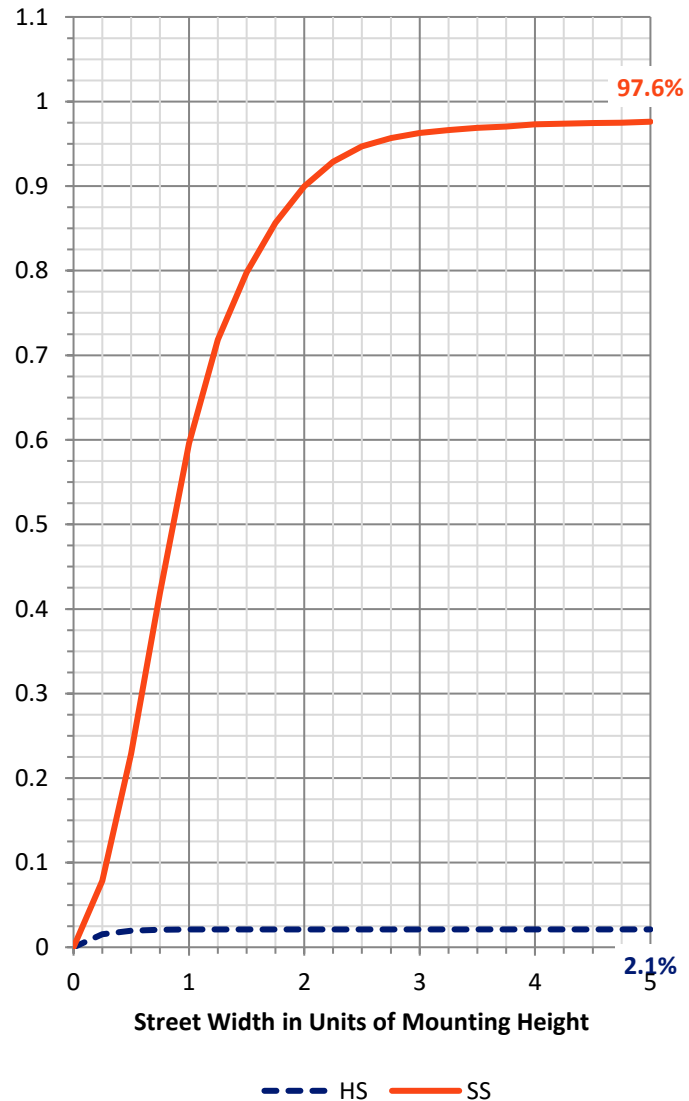
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	175.7	0.0	175.7
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8097.8	0.0	8097.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	8273.4	0.0	8273.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	35.1	0.4
10°-20°	136.0	1.6
20°-30°	276.3	3.3
30°-40°	675.1	8.2
40°-50°	1509.7	18.2
50°-60°	2122.9	25.7
60°-70°	2496.3	30.2
70°-80°	901.4	10.9
80°-90°	120.5	1.5
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°	8273.4	100.0
0°-180°	8273.4	100.0

Coefficient of Utilization



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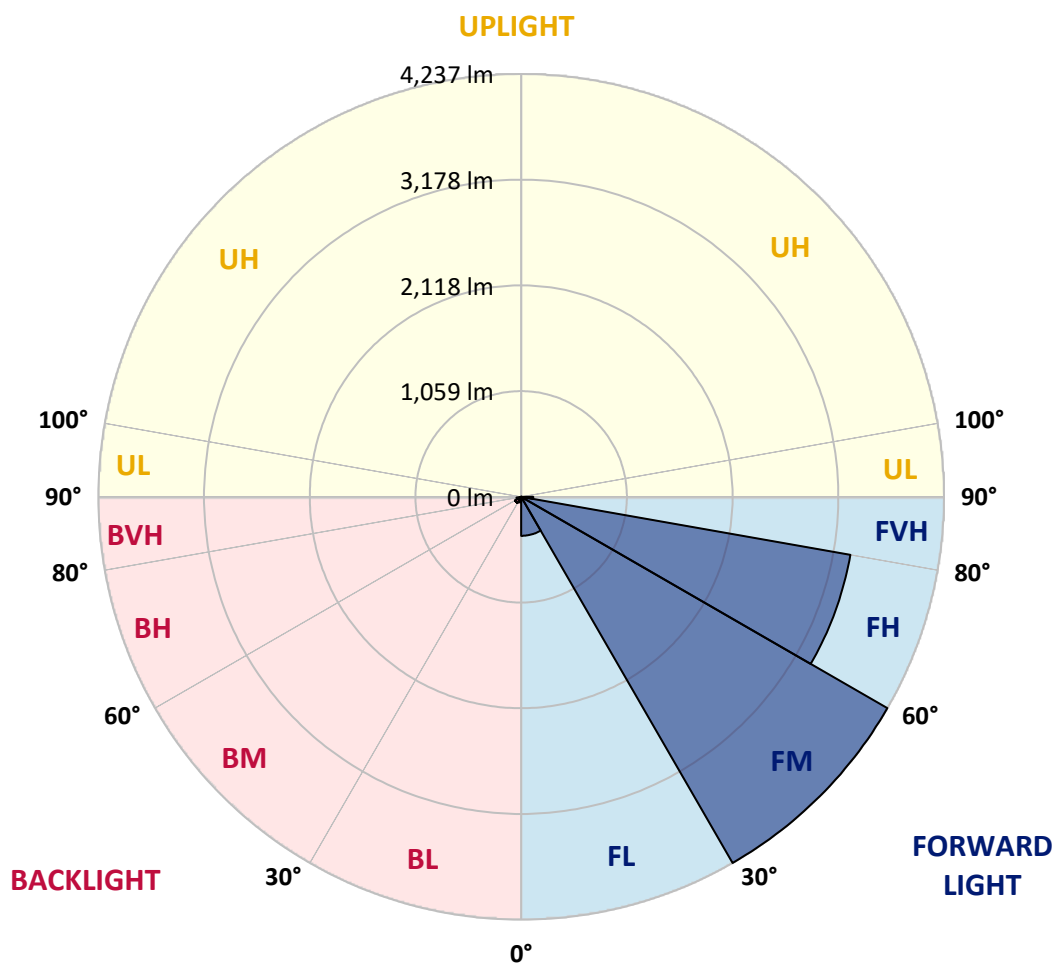
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	390.9	4.7			
FM	(30°-60°)	4236.9	51.2			
FH	(60°-80°)	3349.6	40.5			G2/5000
FVH	(80°-90°)	120.3	1.5			G2/225
BL	(0°-30°)	56.5	0.7	B0/110		
BM	(30°-60°)	70.8	0.9	B0/220		
BH	(60°-80°)	48.2	0.6	B0/110		G0/110
BVH	(80°-90°)	0.3	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4
2.5°	415.1	419.6	416.6	409.1	400.0	388.1	377.5	377.5	376.0	371.5	373.0
5°	544.4	546.0	540.0	521.9	505.4	479.8	451.2	448.2	445.2	440.7	439.2
7.5°	670.9	676.8	670.9	651.2	618.2	579.1	533.9	529.5	520.4	520.4	514.4
10°	800.2	800.2	794.2	771.6	741.5	685.8	628.7	621.2	610.7	607.7	598.6
12.5°	891.9	891.9	888.9	876.9	852.8	803.2	734.0	726.5	713.0	708.4	697.9
15°	928.0	928.0	929.5	940.0	941.6	919.0	846.8	840.7	827.2	815.2	810.7
17.5°	950.5	949.1	949.1	964.1	991.2	1006.2	959.6	953.5	938.6	932.5	917.5
20°	1000.2	997.2	988.2	988.2	1013.7	1066.3	1066.3	1064.9	1048.3	1043.8	1036.3
22.5°	1073.9	1070.9	1043.8	1021.2	1033.3	1099.5	1161.1	1158.1	1152.1	1146.1	1141.6
25°	1194.2	1183.7	1137.0	1070.9	1060.4	1131.1	1233.3	1240.9	1245.4	1245.4	1248.4
27.5°	1376.2	1362.7	1280.0	1156.7	1110.0	1182.1	1313.0	1328.1	1341.6	1344.6	1358.2
30°	1628.9	1604.8	1486.0	1305.5	1198.8	1257.4	1430.4	1446.9	1466.5	1472.5	1493.5
32.5°	2044.0	2030.5	1916.2	1645.4	1416.8	1404.8	1594.3	1615.4	1640.9	1651.4	1677.0
35°	2675.8	2678.8	2585.5	2341.8	2026.0	1860.5	1887.6	1905.6	1914.7	1946.3	1959.8
37.5°	3104.4	3111.9	3133.0	3036.7	2811.1	2642.6	2430.5	2450.2	2403.5	2408.0	2409.5
40°	3339.0	3363.0	3486.4	3579.7	3561.6	3463.9	3293.9	3304.4	3217.2	3197.6	3102.8
42.5°	3495.4	3527.0	3724.1	4012.8	4160.2	4249.0	4209.9	4205.3	4137.7	4112.1	4032.4
45°	3593.2	3621.8	3870.0	4295.6	4635.5	4894.2	5001.0	5013.0	4955.8	4930.3	4864.1
47.5°	3588.6	3621.8	3887.9	4400.9	4901.8	5315.3	5616.2	5631.2	5665.8	5643.2	5647.7
50°	3390.2	3421.8	3689.5	4221.9	4823.5	5507.9	6058.3	6106.5	6162.1	6199.7	6217.8
52.5°	3149.5	3172.1	3409.7	3915.1	4489.6	5428.1	6320.0	6402.8	6485.5	6556.2	6605.8
55°	3060.7	3086.3	3272.8	3692.5	4221.9	5094.2	6441.9	6563.7	6681.1	6796.9	6891.6
57.5°	3107.4	3131.4	3265.3	3587.2	4062.5	4742.3	6476.5	6666.0	6858.5	7046.5	7233.0
60°	3278.8	3304.4	3418.8	3684.9	4020.4	4539.3	6341.1	6655.5	6975.8	7303.7	7612.0
62.5°	3211.2	3221.7	3390.2	3856.4	4321.2	4366.3	5849.3	6288.5	6777.3	7282.7	7780.5
63°	3146.5	3158.5	3330.0	3809.8	4412.9	4340.7	5697.4	6160.6	6676.5	7220.9	7762.5
65°	2853.2	2854.7	2985.6	3364.6	4310.6	4385.8	5020.6	5462.7	6055.3	6708.1	7392.5
67.5°	2129.8	2119.2	2245.6	2534.4	3384.1	4387.4	4309.1	4557.3	4969.4	5548.5	6162.1
70°	755.1	738.5	943.0	1343.1	2108.7	3588.6	3703.0	3719.5	3833.9	4146.7	4531.8
72.5°	245.1	249.7	300.8	491.8	971.6	2415.5	3352.5	3301.4	3271.3	3269.8	3320.9
75°	97.7	99.3	120.3	218.1	436.2	1164.2	2936.0	2964.5	2975.1	2990.0	3006.7
77.5°	46.6	51.1	67.7	121.8	216.6	576.1	2101.2	2343.3	2481.7	2588.5	2653.2
80°	16.5	19.5	37.6	75.2	100.7	264.7	1107.0	1335.6	1538.6	1800.4	2026.0
82.5°	0.0	0.0	7.5	52.6	55.6	106.8	454.2	532.4	609.1	789.6	1013.7
85°	0.0	0.0	0.0	15.1	16.5	18.1	153.4	185.0	207.6	242.1	279.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.5	9.0	22.6	34.6
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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CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4
2.5°	370.0	368.5	368.5	365.5	364.0	361.0	359.5	354.9	353.5	353.5	353.5
5°	437.7	431.6	428.6	421.1	416.6	415.1	407.6	404.6	400.0	401.6	394.0
7.5°	512.8	502.3	497.9	487.3	484.3	473.8	470.7	463.3	458.8	449.7	446.7
10°	595.6	582.1	574.6	558.0	553.5	546.0	537.0	527.9	520.4	511.4	506.9
12.5°	690.4	678.3	672.3	649.8	639.3	628.7	616.7	604.6	592.6	585.1	574.6
15°	801.6	782.1	776.1	755.1	737.0	723.5	706.9	691.9	682.8	667.8	657.2
17.5°	911.4	891.9	887.4	855.8	836.3	827.2	809.2	789.6	773.1	758.1	741.5
20°	1021.2	1007.7	995.6	965.6	944.6	929.5	905.4	885.9	872.3	851.3	830.2
22.5°	1131.1	1117.5	1108.5	1076.9	1057.4	1036.3	1015.3	994.2	974.6	949.1	925.0
25°	1243.9	1234.8	1230.3	1201.8	1183.7	1164.2	1143.1	1119.0	1094.9	1066.3	1040.9
27.5°	1361.2	1364.2	1355.1	1349.1	1329.6	1316.0	1283.0	1266.5	1248.4	1213.8	1182.1
30°	1510.0	1519.1	1516.1	1520.6	1508.6	1499.5	1474.0	1453.0	1431.9	1398.8	1362.7
32.5°	1698.1	1710.2	1716.1	1732.7	1726.7	1723.7	1716.1	1686.0	1671.0	1613.9	1598.8
35°	1988.4	1982.3	2007.9	2021.4	2015.4	2012.5	2003.4	1986.9	1968.8	1928.2	1890.6
37.5°	2365.9	2371.9	2380.9	2353.9	2335.8	2334.3	2307.2	2290.7	2265.1	2220.0	2174.9
40°	3057.7	3020.2	2978.1	2863.7	2814.1	2785.5	2705.8	2683.2	2639.6	2577.9	2531.4
42.5°	3957.2	3919.6	3793.2	3602.3	3500.0	3358.6	3293.9	3214.2	3152.5	3051.8	2997.6
45°	4850.6	4742.3	4727.2	4504.6	4378.3	4191.8	4076.0	3942.1	3802.3	3669.9	3573.7
47.5°	5604.1	5580.0	5506.4	5371.0	5253.7	5097.2	4948.3	4742.3	4597.9	4409.9	4236.9
50°	6207.2	6205.8	6178.6	6100.4	6002.7	5876.4	5745.5	5571.1	5407.1	5177.0	4992.0
52.5°	6658.5	6682.5	6691.6	6667.5	6629.9	6518.6	6452.5	6306.5	6168.1	5972.6	5772.6
55°	6989.3	7078.1	7123.2	7174.4	7163.9	7124.8	7121.8	7027.0	6963.8	6808.8	6667.5
57.5°	7398.5	7544.4	7684.2	7932.4	7941.4	8028.7	8073.8	8119.0	8130.9	8069.3	8022.7
60°	7918.8	8216.7	8481.4	9000.3	9135.7	9349.2	9487.6	9638.0	9765.8	9776.4	9773.4
62.5°	8285.8	8744.6	9171.8	9941.8	10205.0	10451.7	10636.7	10782.6	10871.3	10961.6	11003.7
63°	8296.4	8798.8	9253.0	10047.1	10323.9	10558.5	10734.5	10869.9	10963.1	11017.2	11044.3
65°	8042.2	8651.3	9192.8	9983.9	10244.1	10480.3	10572.0	10660.8	10705.9	10726.9	10647.2
67.5°	6816.4	7412.0	8043.7	8928.1	9150.7	9433.4	9508.7	9553.8	9574.8	9570.4	9502.7
70°	5097.2	5596.6	6299.0	7309.7	7604.6	7881.3	8052.7	8126.4	8150.5	8143.0	8042.2
72.5°	3558.6	3851.9	4430.9	5556.0	5957.6	6312.5	6524.6	6634.4	6657.0	6611.8	6518.6
75°	2988.6	3003.6	3134.4	3749.6	4125.6	4504.6	4743.8	4813.0	4767.9	4631.0	4393.4
77.5°	2668.2	2701.3	2701.3	2793.0	2866.7	2972.0	2994.6	2826.1	2630.6	2377.9	2173.4
80°	2238.1	2353.9	2435.1	2502.8	2510.3	2489.2	2433.5	2338.8	2188.4	1995.9	1782.3
82.5°	1359.7	1588.3	1681.6	2030.5	2201.9	2317.7	2308.8	2182.4	2068.1	1868.1	1686.0
85°	343.0	370.0	401.6	521.9	585.1	714.4	795.6	833.2	846.8	777.6	703.9
87.5°	33.1	22.6	37.6	28.6	40.6	30.0	40.6	37.6	46.6	49.6	54.2
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4
2.5°	350.5	348.9	347.4	346.0	344.4	343.0	339.9	339.9	336.9	335.4	333.9
5°	389.5	386.5	385.1	382.1	377.5	374.5	370.0	364.0	359.5	357.9	354.9
7.5°	439.2	431.6	428.6	424.2	418.1	409.1	403.1	398.6	391.1	386.5	377.5
10°	494.9	487.3	478.3	469.3	460.2	449.7	442.2	436.2	424.2	418.1	407.6
12.5°	565.5	552.0	541.4	529.5	517.4	505.4	496.3	478.3	467.7	454.2	445.2
15°	637.7	625.6	613.7	598.6	580.5	561.0	552.0	535.4	521.9	500.9	488.8
17.5°	724.9	702.4	684.4	666.3	649.8	631.7	613.7	588.1	568.6	550.5	526.5
20°	810.7	783.7	764.0	740.0	716.0	687.4	666.3	648.2	621.2	597.1	571.6
22.5°	902.4	875.4	843.8	819.7	786.7	764.0	735.5	705.4	678.3	646.7	615.1
25°	1013.7	985.1	949.1	917.5	879.8	848.3	813.7	779.1	746.0	709.9	669.3
27.5°	1150.6	1120.5	1081.4	1043.8	994.2	955.1	922.0	875.4	833.2	788.1	741.5
30°	1323.5	1290.5	1242.3	1188.2	1138.6	1094.9	1048.3	986.7	940.0	885.9	825.8
32.5°	1549.2	1510.0	1445.4	1394.2	1332.6	1275.4	1210.7	1149.1	1083.0	1012.3	943.0
35°	1833.5	1797.4	1722.1	1647.0	1579.3	1511.6	1430.4	1359.7	1266.5	1180.7	1091.9
37.5°	2128.3	2063.5	1994.4	1913.2	1828.9	1747.7	1648.4	1550.7	1443.9	1350.7	1239.3
40°	2465.1	2386.9	2329.8	2242.5	2123.7	2007.9	1916.2	1794.4	1660.5	1535.6	1404.8
42.5°	2926.9	2839.7	2737.4	2605.1	2519.3	2383.9	2265.1	2120.7	1944.7	1804.9	1647.0
45°	3460.9	3342.0	3242.8	3114.9	3011.1	2842.7	2704.3	2511.8	2335.8	2152.3	1959.8
47.5°	4070.0	3922.6	3778.2	3651.8	3486.4	3320.9	3145.0	2940.4	2714.8	2513.3	2284.7
50°	4769.3	4560.3	4360.2	4197.8	3970.7	3779.7	3588.6	3358.6	3108.9	2877.2	2617.0
52.5°	5547.0	5304.8	5040.1	4790.4	4527.2	4282.1	4051.9	3787.2	3509.0	3226.2	2936.0
55°	6485.5	6303.5	5992.2	5674.8	5322.8	4995.0	4698.6	4370.8	4032.4	3660.9	3355.6
57.5°	7955.0	7866.2	7606.0	7288.7	6829.9	6431.4	5929.0	5527.4	5037.1	4525.7	4131.6
60°	9946.4	9836.5	9690.6	9433.4	9069.5	8528.0	7974.6	7350.4	6604.3	5896.0	5223.6
62.5°	11008.2	10969.1	10850.3	10672.8	10332.9	9905.7	9347.8	8661.8	7819.6	6959.3	6102.0
63°	11039.8	10990.2	10887.9	10707.4	10408.1	9994.5	9447.0	8780.7	7956.5	7079.7	6204.2
65°	10612.7	10593.1	10489.3	10292.3	10087.8	9771.8	9347.8	8774.6	8082.8	7254.1	6383.2
67.5°	9412.4	9353.7	9194.3	9134.1	8991.3	8771.6	8448.3	8054.2	7559.4	6908.1	6156.1
70°	7960.9	7873.7	7673.7	7566.9	7392.5	7254.1	7057.1	6775.8	6470.4	6016.2	5455.3
72.5°	6422.3	6241.8	6058.3	5780.1	5536.5	5289.8	5071.7	4873.2	4537.7	4354.2	3928.6
75°	4170.7	3842.8	3528.5	3107.4	2728.4	2393.0	2066.5	1901.1	1556.7	1416.8	1216.8
77.5°	1979.3	1795.8	1549.2	1358.2	1114.5	910.0	743.0	558.0	437.7	343.0	261.7
80°	1597.3	1442.4	1293.5	1120.5	937.0	747.5	573.0	428.6	303.8	210.5	148.9
82.5°	1424.4	1255.9	1072.4	953.5	828.8	678.3	556.5	454.2	335.4	245.1	167.0
85°	553.5	466.3	359.5	293.3	228.6	188.0	170.0	117.3	91.8	72.2	55.6
87.5°	48.1	39.1	31.6	21.1	22.6	12.1	13.5	9.0	7.5	7.5	6.0
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4	317.4
2.5°	332.4	330.9	329.4	326.3	326.3	323.4	321.9	320.4	312.8	296.3	282.8
5°	348.9	346.0	343.0	338.4	335.4	330.9	327.9	323.4	306.8	275.3	248.2
7.5°	373.0	367.0	362.5	353.5	348.9	343.0	338.4	330.9	303.8	255.6	218.1
10°	401.6	391.1	383.5	373.0	364.0	356.5	348.9	338.4	300.8	234.6	191.0
12.5°	436.2	424.2	409.1	397.0	385.1	374.5	364.0	350.5	296.3	216.6	170.0
15°	470.7	452.7	442.2	425.6	409.1	394.0	379.0	367.0	297.8	197.0	151.9
17.5°	509.8	491.8	469.3	451.2	433.2	413.7	395.6	371.5	290.3	182.0	138.4
20°	547.5	521.9	500.9	478.3	452.7	428.6	406.1	385.1	284.2	167.0	126.3
22.5°	588.1	558.0	530.9	502.3	470.7	443.7	416.6	389.5	273.7	153.4	115.8
25°	637.7	603.1	564.0	529.5	496.3	463.3	428.6	395.6	263.2	141.4	108.3
27.5°	697.9	652.8	613.7	570.0	523.4	481.3	443.7	407.6	252.7	132.3	100.7
30°	774.6	721.9	666.3	610.7	561.0	512.8	460.2	415.1	242.1	123.3	93.3
32.5°	876.9	810.7	743.0	678.3	612.1	550.5	494.9	436.2	236.1	115.8	85.8
35°	1012.3	926.5	843.8	762.6	682.8	607.7	535.4	469.3	236.1	106.8	76.7
37.5°	1140.0	1040.9	935.5	834.7	740.0	652.8	567.0	487.3	224.1	99.3	69.2
40°	1278.4	1159.6	1036.3	917.5	803.2	694.9	597.1	505.4	213.5	90.2	61.7
42.5°	1490.5	1340.2	1179.2	1040.9	903.9	770.0	648.2	540.0	200.0	81.2	54.2
45°	1768.8	1577.7	1388.3	1219.8	1045.3	881.4	737.0	603.1	197.0	73.7	46.6
47.5°	2066.5	1840.9	1618.4	1403.3	1198.8	1007.7	834.7	673.8	197.0	66.2	40.6
50°	2362.8	2080.2	1842.5	1592.8	1362.7	1137.0	931.0	747.5	198.6	60.2	33.1
52.5°	2630.6	2328.3	2062.1	1773.3	1519.1	1257.4	1033.3	819.7	195.5	52.6	27.0
55°	3002.1	2647.2	2338.8	2020.0	1722.1	1427.4	1173.2	928.0	197.0	46.6	22.6
57.5°	3686.5	3269.8	2898.3	2480.2	2137.2	1756.7	1448.4	1150.6	215.1	39.1	16.5
60°	4668.6	4127.2	3605.3	3095.3	2659.2	2206.5	1806.3	1456.0	252.7	31.6	12.1
62.5°	5328.9	4620.5	3997.8	3435.3	2928.4	2454.6	2018.4	1619.8	278.2	25.6	7.5
63°	5396.5	4664.1	4038.4	3457.9	2940.4	2466.7	2027.5	1631.9	279.8	24.0	7.5
65°	5524.4	4739.3	4060.9	3462.3	2928.4	2450.2	2021.4	1630.4	282.8	19.5	6.0
67.5°	5378.5	4623.5	3930.1	3333.0	2823.1	2352.3	1946.3	1570.2	281.2	13.5	4.5
70°	4810.0	4184.3	3575.1	3018.6	2555.4	2129.8	1771.8	1431.9	258.7	9.0	3.0
72.5°	3531.6	3105.8	2633.6	2232.0	1925.2	1598.8	1364.2	1075.4	200.0	6.0	1.5
75°	1046.8	953.5	801.6	706.9	624.2	515.9	458.8	357.9	102.3	3.0	0.0
77.5°	209.1	189.5	170.0	154.9	145.9	124.9	118.8	97.7	42.1	1.5	0.0
80°	109.8	90.2	76.7	67.7	58.6	48.1	40.6	33.1	7.5	0.0	0.0
82.5°	105.3	70.7	51.1	42.1	36.1	28.6	22.6	16.5	4.5	0.0	0.0
85°	39.1	30.0	22.6	18.1	15.1	13.5	10.5	9.0	0.0	0.0	0.0
87.5°	6.0	4.5	4.5	3.0	3.0	1.5	1.5	1.5	0.0	0.0	0.0
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-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	317.4	317.4	317.4	317.4	317.4	317.4	317.4
2.5°	269.3	257.2	251.2	243.7	243.7	242.1	245.1
5°	224.1	207.6	195.5	186.5	188.0	183.5	185.0
7.5°	189.5	173.0	162.4	156.5	154.9	153.4	153.4
10°	163.9	148.9	139.8	135.4	133.9	133.9	133.9
12.5°	145.9	130.9	123.3	120.3	120.3	118.8	118.8
15°	130.9	118.8	111.3	108.3	108.3	106.8	108.3
17.5°	118.8	106.8	100.7	97.7	97.7	96.3	96.3
20°	108.3	97.7	91.8	87.2	87.2	85.8	87.2
22.5°	99.3	88.8	81.2	78.2	76.7	75.2	76.7
25°	90.2	79.7	72.2	67.7	66.2	66.2	64.7
27.5°	82.7	72.2	63.2	58.6	57.2	57.2	55.6
30°	75.2	63.2	54.2	49.6	48.1	48.1	48.1
32.5°	67.7	54.2	46.6	42.1	40.6	40.6	40.6
35°	60.2	46.6	39.1	34.6	33.1	33.1	33.1
37.5°	51.1	39.1	30.0	27.0	25.6	24.0	24.0
40°	43.7	30.0	22.6	19.5	16.5	16.5	16.5
42.5°	36.1	24.0	16.5	12.1	10.5	9.0	10.5
45°	30.0	18.1	10.5	6.0	4.5	4.5	4.5
47.5°	24.0	12.1	4.5	1.5	1.5	1.5	1.5
50°	18.1	7.5	1.5	0.0	0.0	1.5	1.5
52.5°	13.5	4.5	0.0	0.0	0.0	0.0	0.0
55°	7.5	1.5	0.0	0.0	0.0	0.0	0.0
57.5°	4.5	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)