

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: P165047

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165047
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
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (105) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9058.3 lumens
Efficiency: N/A
Efficacy: 71.2 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



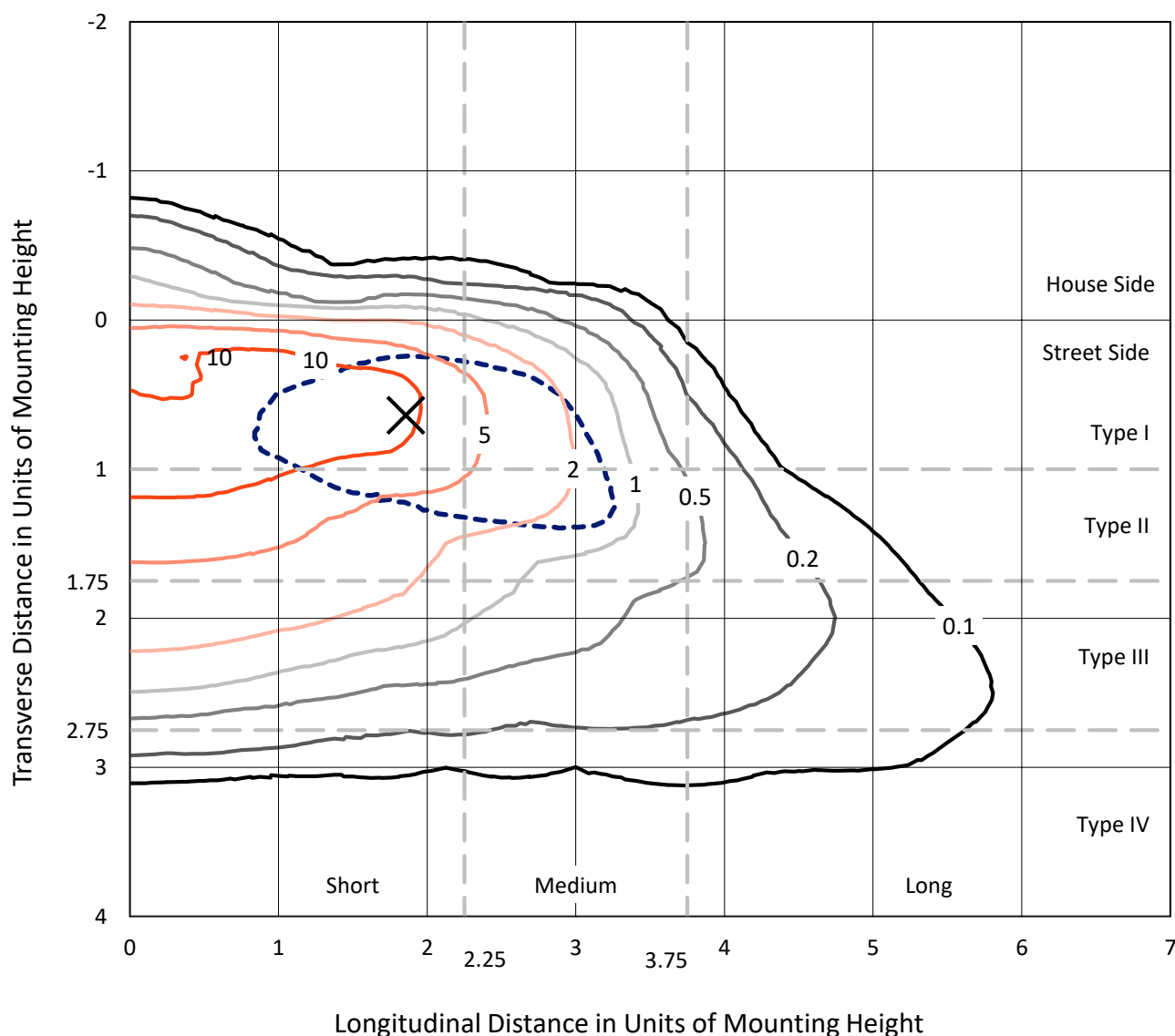
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

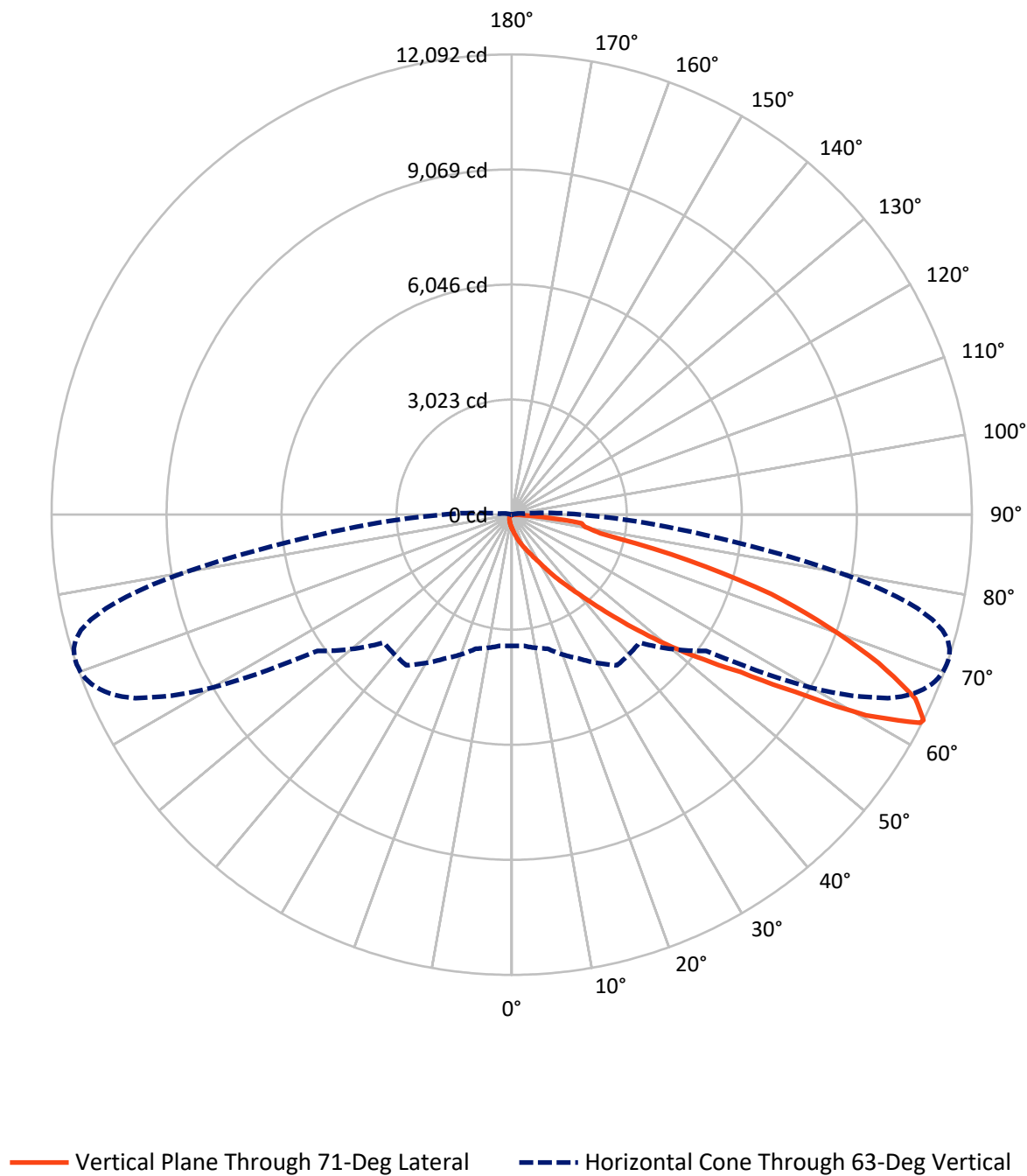


Based on 10 foot mounting height. Maximum calculated value = 19.1 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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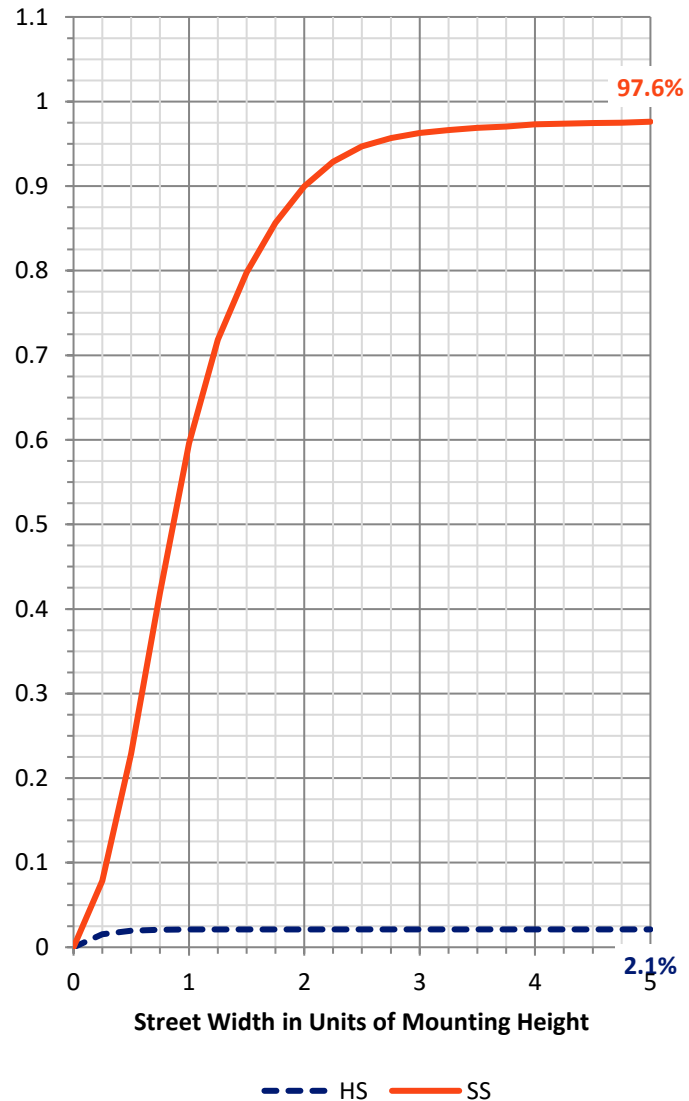
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	192.3	0.0	192.3
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8866.0	0.0	8866.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	9058.3	0.0	9058.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	38.4	0.4
10°-20°	148.9	1.6
20°-30°	302.5	3.3
30°-40°	739.1	8.2
40°-50°	1653.0	18.2
50°-60°	2324.3	25.7
60°-70°	2733.2	30.2
70°-80°	986.9	10.9
80°-90°	132.0	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°	9058.3	100.0
0°-180°	9058.3	100.0

Coefficient of Utilization



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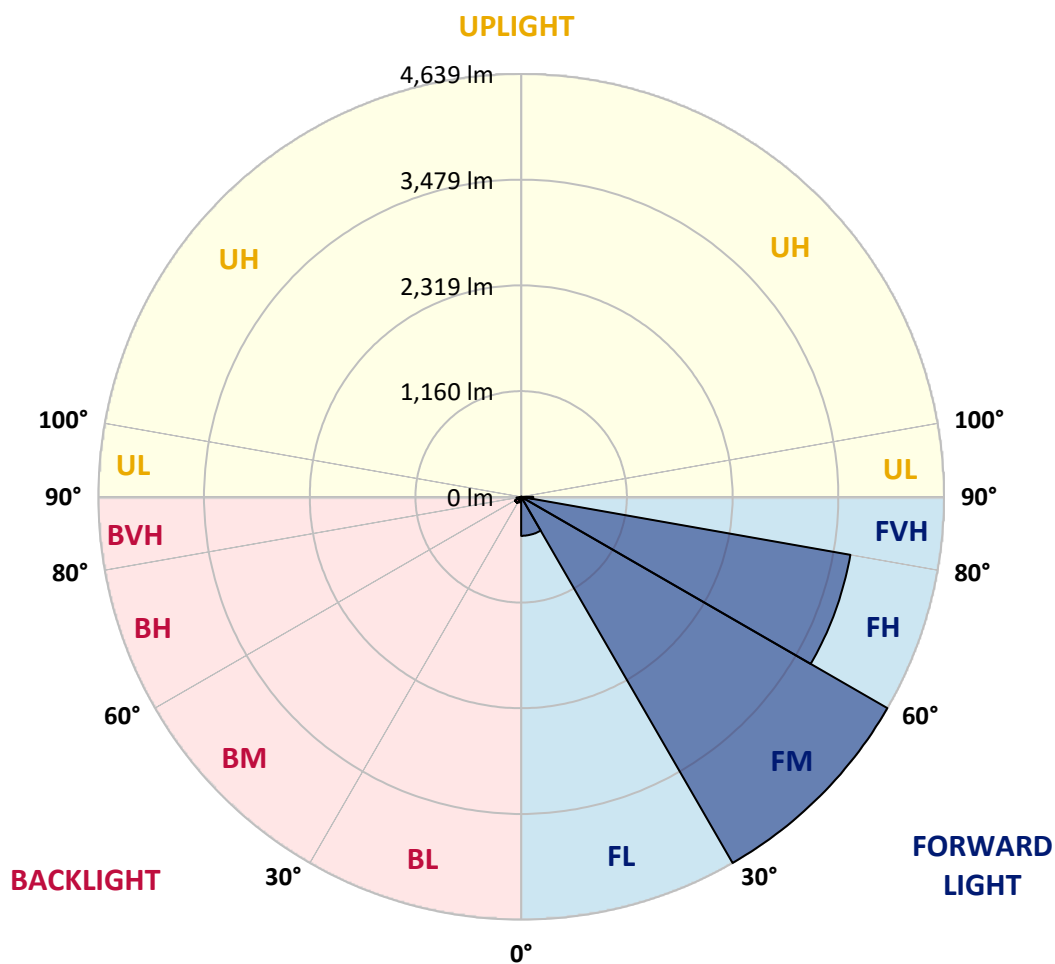
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	428.0	4.7			
FM	(30°-60°)	4638.9	51.2			
FH	(60°-80°)	3667.4	40.5			G2/5000
FVH	(80°-90°)	131.7	1.5			G2/225
BL	(0°-30°)	61.8	0.7	B0/110		
BM	(30°-60°)	77.5	0.9	B0/220		
BH	(60°-80°)	52.7	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°	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5
2.5°	454.5	459.4	456.1	447.9	438.0	424.9	413.3	413.3	411.7	406.7	408.4
5°	596.1	597.8	591.2	571.4	553.3	525.3	494.0	490.7	487.4	482.5	480.9
7.5°	734.5	741.0	734.5	713.0	676.8	634.0	584.6	579.7	569.8	569.8	563.2
10°	876.1	876.1	869.5	844.8	811.8	750.9	688.3	680.1	668.6	665.3	655.4
12.5°	976.5	976.5	973.2	960.1	933.7	879.4	803.6	795.4	780.6	775.6	764.1
15°	1016.0	1016.0	1017.7	1029.2	1030.9	1006.2	927.1	920.5	905.7	892.5	887.6
17.5°	1040.7	1039.1	1039.1	1055.6	1085.2	1101.7	1050.6	1044.0	1027.6	1021.0	1004.5
20°	1095.1	1091.8	1081.9	1081.9	1109.9	1167.5	1167.5	1165.9	1147.8	1142.8	1134.6
22.5°	1175.8	1172.5	1142.8	1118.1	1131.3	1203.8	1271.3	1268.0	1261.4	1254.8	1249.9
25°	1307.5	1296.0	1244.9	1172.5	1161.0	1238.4	1350.3	1358.6	1363.5	1363.5	1366.8
27.5°	1506.8	1492.0	1401.4	1266.4	1215.3	1294.3	1437.6	1454.1	1468.9	1472.2	1487.0
30°	1783.4	1757.1	1627.0	1429.4	1312.5	1376.7	1566.1	1584.2	1605.6	1612.2	1635.2
32.5°	2237.9	2223.1	2098.0	1801.5	1551.2	1538.1	1745.6	1768.6	1796.6	1808.1	1836.1
35°	2929.6	2932.9	2830.8	2564.0	2218.2	2037.0	2066.7	2086.4	2096.3	2130.9	2145.7
37.5°	3398.9	3407.1	3430.2	3324.8	3077.8	2893.3	2661.1	2682.6	2631.5	2636.4	2638.1
40°	3655.8	3682.1	3817.2	3919.3	3899.5	3792.5	3606.4	3617.9	3522.4	3501.0	3397.2
42.5°	3827.0	3861.6	4077.4	4393.5	4554.9	4652.1	4609.3	4604.3	4530.2	4502.2	4414.9
45°	3934.1	3965.4	4237.1	4703.1	5075.3	5358.5	5475.4	5488.6	5426.0	5398.0	5325.6
47.5°	3929.1	3965.4	4256.8	4818.4	5366.8	5819.6	6149.0	6165.4	6203.3	6178.6	6183.5
50°	3711.8	3746.4	4039.5	4622.4	5281.1	6030.4	6633.1	6685.8	6746.7	6787.9	6807.7
52.5°	3448.3	3473.0	3733.2	4286.5	4915.5	5943.1	6919.6	7010.2	7100.8	7178.2	7232.5
55°	3351.1	3379.1	3583.3	4042.8	4622.4	5577.5	7053.0	7186.4	7314.9	7441.7	7545.4
57.5°	3402.2	3428.5	3575.1	3927.5	4447.9	5192.2	7090.9	7298.4	7509.2	7715.0	7919.2
60°	3589.9	3617.9	3743.1	4034.5	4401.8	4969.9	6942.7	7286.9	7637.6	7996.6	8334.2
62.5°	3515.8	3527.3	3711.8	4222.3	4731.1	4780.5	6404.2	6885.1	7420.3	7973.6	8518.6
63°	3445.0	3458.2	3645.9	4171.2	4831.6	4752.5	6237.9	6745.1	7309.9	7906.0	8498.9
65°	3123.9	3125.5	3268.8	3683.8	4719.6	4801.9	5496.9	5981.0	6629.8	7344.5	8093.8
67.5°	2331.8	2320.3	2458.6	2774.8	3705.2	4803.6	4717.9	4989.7	5440.9	6074.9	6746.7
70°	826.7	808.6	1032.5	1470.5	2308.7	3929.1	4054.3	4072.4	4197.6	4540.1	4961.7
72.5°	268.4	273.4	329.3	538.5	1063.8	2644.7	3670.6	3614.6	3581.7	3580.0	3636.0
75°	107.0	108.7	131.7	238.8	477.6	1274.6	3214.5	3245.7	3257.3	3273.7	3291.9
77.5°	51.0	56.0	74.1	133.4	237.1	630.7	2300.5	2565.6	2717.1	2834.1	2904.9
80°	18.1	21.4	41.2	82.3	110.3	289.8	1212.0	1462.3	1684.6	1971.2	2218.2
82.5°	0.0	0.0	8.2	57.6	60.9	116.9	497.3	582.9	666.9	864.5	1109.9
85°	0.0	0.0	0.0	16.5	18.1	19.8	168.0	202.6	227.3	265.1	306.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.6	4.9	9.9	24.7	37.9
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5
2.5°	405.1	403.5	403.5	400.2	398.5	395.2	393.6	388.6	387.0	387.0	387.0
5°	479.2	472.6	469.3	461.1	456.1	454.5	446.3	443.0	438.0	439.7	431.4
7.5°	561.5	550.0	545.1	533.5	530.3	518.7	515.4	507.2	502.3	492.4	489.1
10°	652.1	637.3	629.1	610.9	606.0	597.8	587.9	578.0	569.8	559.9	555.0
12.5°	755.9	742.7	736.1	711.4	699.9	688.3	675.2	662.0	648.8	640.6	629.1
15°	877.7	856.3	849.7	826.7	806.9	792.1	774.0	757.5	747.6	731.2	719.6
17.5°	997.9	976.5	971.6	937.0	915.6	905.7	886.0	864.5	846.4	830.0	811.8
20°	1118.1	1103.3	1090.1	1057.2	1034.2	1017.7	991.3	969.9	955.1	932.1	909.0
22.5°	1238.4	1223.5	1213.7	1179.1	1157.7	1134.6	1111.6	1088.5	1067.1	1039.1	1012.8
25°	1361.9	1352.0	1347.0	1315.8	1296.0	1274.6	1251.5	1225.2	1198.8	1167.5	1139.6
27.5°	1490.3	1493.6	1483.7	1477.1	1455.7	1440.9	1404.7	1386.6	1366.8	1328.9	1294.3
30°	1653.3	1663.2	1659.9	1664.9	1651.7	1641.8	1613.8	1590.8	1567.7	1531.5	1492.0
32.5°	1859.2	1872.4	1878.9	1897.1	1890.5	1887.2	1878.9	1846.0	1829.5	1767.0	1750.5
35°	2177.0	2170.4	2198.4	2213.2	2206.6	2203.4	2193.5	2175.4	2155.6	2111.1	2070.0
37.5°	2590.3	2596.9	2606.8	2577.2	2557.4	2555.8	2526.1	2508.0	2480.0	2430.6	2381.2
40°	3347.8	3306.7	3260.6	3135.4	3081.1	3049.8	2962.5	2937.8	2890.0	2822.5	2771.5
42.5°	4332.6	4291.4	4153.1	3944.0	3832.0	3677.2	3606.4	3519.1	3451.6	3341.3	3282.0
45°	5310.8	5192.2	5175.7	4932.0	4793.7	4589.5	4462.7	4316.1	4163.0	4018.1	3912.7
47.5°	6135.8	6109.4	6028.8	5880.5	5752.1	5580.8	5417.8	5192.2	5034.1	4828.3	4638.9
50°	6796.1	6794.5	6764.8	6679.2	6572.2	6433.9	6290.6	6099.6	5920.1	5668.1	5465.6
52.5°	7290.2	7316.5	7326.4	7300.0	7258.9	7137.0	7064.6	6904.8	6753.3	6539.2	6320.2
55°	7652.4	7749.6	7799.0	7855.0	7843.5	7800.7	7797.4	7693.6	7624.5	7454.8	7300.0
57.5°	8100.4	8260.1	8413.2	8685.0	8694.8	8790.4	8839.8	8889.2	8902.3	8834.8	8783.8
60°	8670.1	8996.2	9286.0	9854.2	10002.4	10236.2	10387.7	10552.4	10692.3	10703.9	10700.6
62.5°	9071.9	9574.2	10041.9	10885.0	11173.2	11443.3	11645.8	11805.6	11902.7	12001.5	12047.6
63°	9083.5	9633.5	10130.8	11000.3	11303.3	11560.2	11752.9	11901.1	12003.2	12062.4	12092.1
65°	8805.2	9472.1	10064.9	10931.1	11216.0	11474.6	11575.0	11672.2	11721.6	11744.6	11657.3
67.5°	7463.1	8115.2	8806.8	9775.1	10018.8	10328.4	10410.8	10460.2	10483.2	10478.3	10404.2
70°	5580.8	6127.6	6896.6	8003.2	8326.0	8629.0	8816.7	8897.4	8923.7	8915.5	8805.2
72.5°	3896.2	4217.3	4851.3	6083.1	6522.8	6911.4	7143.6	7263.8	7288.5	7239.1	7137.0
75°	3272.1	3288.6	3431.8	4105.3	4517.0	4932.0	5193.8	5269.6	5220.2	5070.3	4810.2
77.5°	2921.3	2957.6	2957.6	3058.0	3138.7	3254.0	3278.7	3094.2	2880.2	2603.5	2379.6
80°	2450.4	2577.2	2666.1	2740.2	2748.4	2725.4	2664.4	2560.7	2396.0	2185.2	1951.4
82.5°	1488.7	1739.0	1841.1	2223.1	2410.8	2537.6	2527.8	2389.4	2264.3	2045.3	1846.0
85°	375.5	405.1	439.7	571.4	640.6	782.2	871.1	912.3	927.1	851.4	770.7
87.5°	36.2	24.7	41.2	31.3	44.5	32.9	44.5	41.2	51.0	54.3	59.3
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5
2.5°	383.7	382.0	380.4	378.8	377.1	375.5	372.2	372.2	368.9	367.2	365.6
5°	426.5	423.2	421.6	418.3	413.3	410.0	405.1	398.5	393.6	391.9	388.6
7.5°	480.9	472.6	469.3	464.4	457.8	447.9	441.3	436.4	428.2	423.2	413.3
10°	541.8	533.5	523.7	513.8	503.9	492.4	484.1	477.6	464.4	457.8	446.3
12.5°	619.2	604.4	592.8	579.7	566.5	553.3	543.4	523.7	512.1	497.3	487.4
15°	698.2	685.0	671.9	655.4	635.6	614.2	604.4	586.2	571.4	548.4	535.2
17.5°	793.7	769.0	749.3	729.5	711.4	691.6	671.9	643.9	622.5	602.7	576.4
20°	887.6	858.0	836.5	810.2	783.9	752.6	729.5	709.7	680.1	653.8	625.8
22.5°	988.0	958.4	923.8	897.5	861.3	836.5	805.3	772.3	742.7	708.1	673.5
25°	1109.9	1078.6	1039.1	1004.5	963.3	928.8	890.9	853.0	816.8	777.3	732.8
27.5°	1259.8	1226.8	1184.0	1142.8	1088.5	1045.7	1009.5	958.4	912.3	862.9	811.8
30°	1449.1	1412.9	1360.2	1300.9	1246.6	1198.8	1147.8	1080.3	1029.2	969.9	904.1
32.5°	1696.2	1653.3	1582.5	1526.5	1459.0	1396.4	1325.6	1258.1	1185.7	1108.3	1032.5
35°	2007.4	1967.9	1885.5	1803.2	1729.1	1655.0	1566.1	1488.7	1386.6	1292.7	1195.5
37.5°	2330.2	2259.3	2183.6	2094.7	2002.4	1913.5	1804.8	1697.8	1580.9	1478.8	1356.9
40°	2699.0	2613.4	2550.8	2455.3	2325.2	2198.4	2098.0	1964.6	1818.0	1681.3	1538.1
42.5°	3204.6	3109.1	2997.1	2852.2	2758.3	2610.1	2480.0	2321.9	2129.2	1976.1	1803.2
45°	3789.2	3659.1	3550.4	3410.4	3296.8	3112.4	2960.9	2750.1	2557.4	2356.5	2145.7
47.5°	4456.1	4294.7	4136.6	3998.3	3817.2	3636.0	3443.4	3219.4	2972.4	2751.7	2501.4
50°	5221.8	4992.9	4773.9	4596.1	4347.4	4138.3	3929.1	3677.2	3403.8	3150.2	2865.3
52.5°	6073.2	5808.1	5518.3	5244.9	4956.7	4688.3	4436.3	4146.5	3841.9	3532.3	3214.5
55°	7100.8	6901.5	6560.7	6213.2	5827.8	5468.9	5144.4	4785.5	4414.9	4008.2	3673.9
57.5°	8709.7	8612.5	8327.6	7980.2	7477.9	7041.5	6491.5	6051.8	5515.0	4955.1	4523.6
60°	10890.0	10769.7	10610.0	10328.4	9929.9	9337.1	8731.1	8047.7	7230.9	6455.3	5719.2
62.5°	12052.6	12009.7	11879.7	11685.3	11313.2	10845.5	10234.6	9483.6	8561.5	7619.5	6680.9
63°	12087.1	12032.8	11920.8	11723.2	11395.5	10942.7	10343.2	9613.7	8711.3	7751.3	6792.8
65°	11619.5	11598.1	11484.4	11268.7	11044.8	10698.9	10234.6	9607.1	8849.6	7942.3	6988.8
67.5°	10305.4	10241.1	10066.6	10000.7	9844.3	9603.8	9249.8	8818.3	8276.6	7563.5	6740.1
70°	8716.2	8620.7	8401.7	8284.8	8093.8	7942.3	7726.6	7418.6	7084.3	6587.0	5972.8
72.5°	7031.6	6834.0	6633.1	6328.5	6061.7	5791.6	5552.8	5335.5	4968.2	4767.3	4301.3
75°	4566.4	4207.4	3863.3	3402.2	2987.2	2620.0	2262.6	2081.5	1704.4	1551.2	1332.2
77.5°	2167.1	1966.2	1696.2	1487.0	1220.2	996.3	813.5	610.9	479.2	375.5	286.5
80°	1748.8	1579.2	1416.2	1226.8	1025.9	818.4	627.4	469.3	332.6	230.5	163.0
82.5°	1559.5	1375.0	1174.1	1044.0	907.4	742.7	609.3	497.3	367.2	268.4	182.8
85°	606.0	510.5	393.6	321.1	250.3	205.8	186.1	128.4	100.5	79.0	60.9
87.5°	52.7	42.8	34.6	23.1	24.7	13.2	14.8	9.9	8.2	8.2	6.6
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5	347.5
2.5°	363.9	362.3	360.6	357.3	357.3	354.1	352.4	350.8	342.5	324.4	309.6
5°	382.0	378.8	375.5	370.5	367.2	362.3	359.0	354.1	335.9	301.4	271.7
7.5°	408.4	401.8	396.9	387.0	382.0	375.5	370.5	362.3	332.6	279.9	238.8
10°	439.7	428.2	419.9	408.4	398.5	390.3	382.0	370.5	329.3	256.9	209.1
12.5°	477.6	464.4	447.9	434.7	421.6	410.0	398.5	383.7	324.4	237.1	186.1
15°	515.4	495.7	484.1	466.0	447.9	431.4	415.0	401.8	326.1	215.7	166.3
17.5°	558.2	538.5	513.8	494.0	474.3	452.9	433.1	406.7	317.8	199.3	151.5
20°	599.4	571.4	548.4	523.7	495.7	469.3	444.6	421.6	311.2	182.8	138.3
22.5°	643.9	610.9	581.3	550.0	515.4	485.8	456.1	426.5	299.7	168.0	126.8
25°	698.2	660.3	617.5	579.7	543.4	507.2	469.3	433.1	288.2	154.8	118.6
27.5°	764.1	714.7	671.9	624.1	573.1	527.0	485.8	446.3	276.7	144.9	110.3
30°	848.1	790.4	729.5	668.6	614.2	561.5	503.9	454.5	265.1	135.0	102.1
32.5°	960.1	887.6	813.5	742.7	670.2	602.7	541.8	477.6	258.5	126.8	93.9
35°	1108.3	1014.4	923.8	834.9	747.6	665.3	586.2	513.8	258.5	116.9	84.0
37.5°	1248.2	1139.6	1024.3	913.9	810.2	714.7	620.8	533.5	245.4	108.7	75.8
40°	1399.7	1269.6	1134.6	1004.5	879.4	760.8	653.8	553.3	233.8	98.8	67.5
42.5°	1631.9	1467.3	1291.1	1139.6	989.7	843.1	709.7	591.2	219.0	88.9	59.3
45°	1936.6	1727.4	1520.0	1335.5	1144.5	965.0	806.9	660.3	215.7	80.7	51.0
47.5°	2262.6	2015.6	1771.9	1536.4	1312.5	1103.3	913.9	737.7	215.7	72.5	44.5
50°	2587.0	2277.5	2017.3	1743.9	1492.0	1244.9	1019.3	818.4	217.4	65.9	36.2
52.5°	2880.2	2549.2	2257.7	1941.5	1663.2	1376.7	1131.3	897.5	214.1	57.6	29.6
55°	3286.9	2898.3	2560.7	2211.6	1885.5	1562.8	1284.5	1016.0	215.7	51.0	24.7
57.5°	4036.2	3580.0	3173.3	2715.5	2340.0	1923.4	1585.8	1259.8	235.5	42.8	18.1
60°	5111.5	4518.7	3947.3	3389.0	2911.5	2415.8	1977.7	1594.1	276.7	34.6	13.2
62.5°	5834.4	5058.8	4377.1	3761.2	3206.2	2687.5	2209.9	1773.5	304.6	28.0	8.2
63°	5908.5	5106.6	4421.5	3785.9	3219.4	2700.7	2219.8	1786.7	306.3	26.3	8.2
65°	6048.5	5188.9	4446.2	3790.8	3206.2	2682.6	2213.2	1785.1	309.6	21.4	6.6
67.5°	5888.8	5062.1	4303.0	3649.2	3090.9	2575.5	2130.9	1719.2	307.9	14.8	4.9
70°	5266.3	4581.3	3914.3	3305.0	2797.8	2331.8	1939.9	1567.7	283.2	9.9	3.3
72.5°	3866.6	3400.5	2883.5	2443.8	2107.8	1750.5	1493.6	1177.4	219.0	6.6	1.6
75°	1146.1	1044.0	877.7	774.0	683.4	564.8	502.3	391.9	112.0	3.3	0.0
77.5°	228.9	207.5	186.1	169.6	159.7	136.7	130.1	107.0	46.1	1.6	0.0
80°	120.2	98.8	84.0	74.1	64.2	52.7	44.5	36.2	8.2	0.0	0.0
82.5°	115.3	77.4	56.0	46.1	39.5	31.3	24.7	18.1	4.9	0.0	0.0
85°	42.8	32.9	24.7	19.8	16.5	14.8	11.5	9.9	0.0	0.0	0.0
87.5°	6.6	4.9	4.9	3.3	3.3	1.6	1.6	1.6	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

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	347.5	347.5	347.5	347.5	347.5	347.5	347.5
2.5°	294.8	281.6	275.0	266.8	266.8	265.1	268.4
5°	245.4	227.3	214.1	204.2	205.8	200.9	202.6
7.5°	207.5	189.4	177.8	171.3	169.6	168.0	168.0
10°	179.5	163.0	153.1	148.2	146.6	146.6	146.6
12.5°	159.7	143.3	135.0	131.7	131.7	130.1	130.1
15°	143.3	130.1	121.9	118.6	118.6	116.9	118.6
17.5°	130.1	116.9	110.3	107.0	107.0	105.4	105.4
20°	118.6	107.0	100.5	95.5	95.5	93.9	95.5
22.5°	108.7	97.2	88.9	85.6	84.0	82.3	84.0
25°	98.8	87.3	79.0	74.1	72.5	72.5	70.8
27.5°	90.6	79.0	69.2	64.2	62.6	62.6	60.9
30°	82.3	69.2	59.3	54.3	52.7	52.7	52.7
32.5°	74.1	59.3	51.0	46.1	44.5	44.5	44.5
35°	65.9	51.0	42.8	37.9	36.2	36.2	36.2
37.5°	56.0	42.8	32.9	29.6	28.0	26.3	26.3
40°	47.8	32.9	24.7	21.4	18.1	18.1	18.1
42.5°	39.5	26.3	18.1	13.2	11.5	9.9	11.5
45°	32.9	19.8	11.5	6.6	4.9	4.9	4.9
47.5°	26.3	13.2	4.9	1.6	1.6	1.6	1.6
50°	19.8	8.2	1.6	0.0	0.0	1.6	1.6
52.5°	14.8	4.9	0.0	0.0	0.0	0.0	0.0
55°	8.2	1.6	0.0	0.0	0.0	0.0	0.0
57.5°	4.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.6	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)