

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: P165061

Luminaire Tested: **VST-F06-LED-E-U-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165061
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-F06-LED-E-U-SL2-HSS-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8195.9 lumens
Efficiency: N/A
Efficacy: 52.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 156.5
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

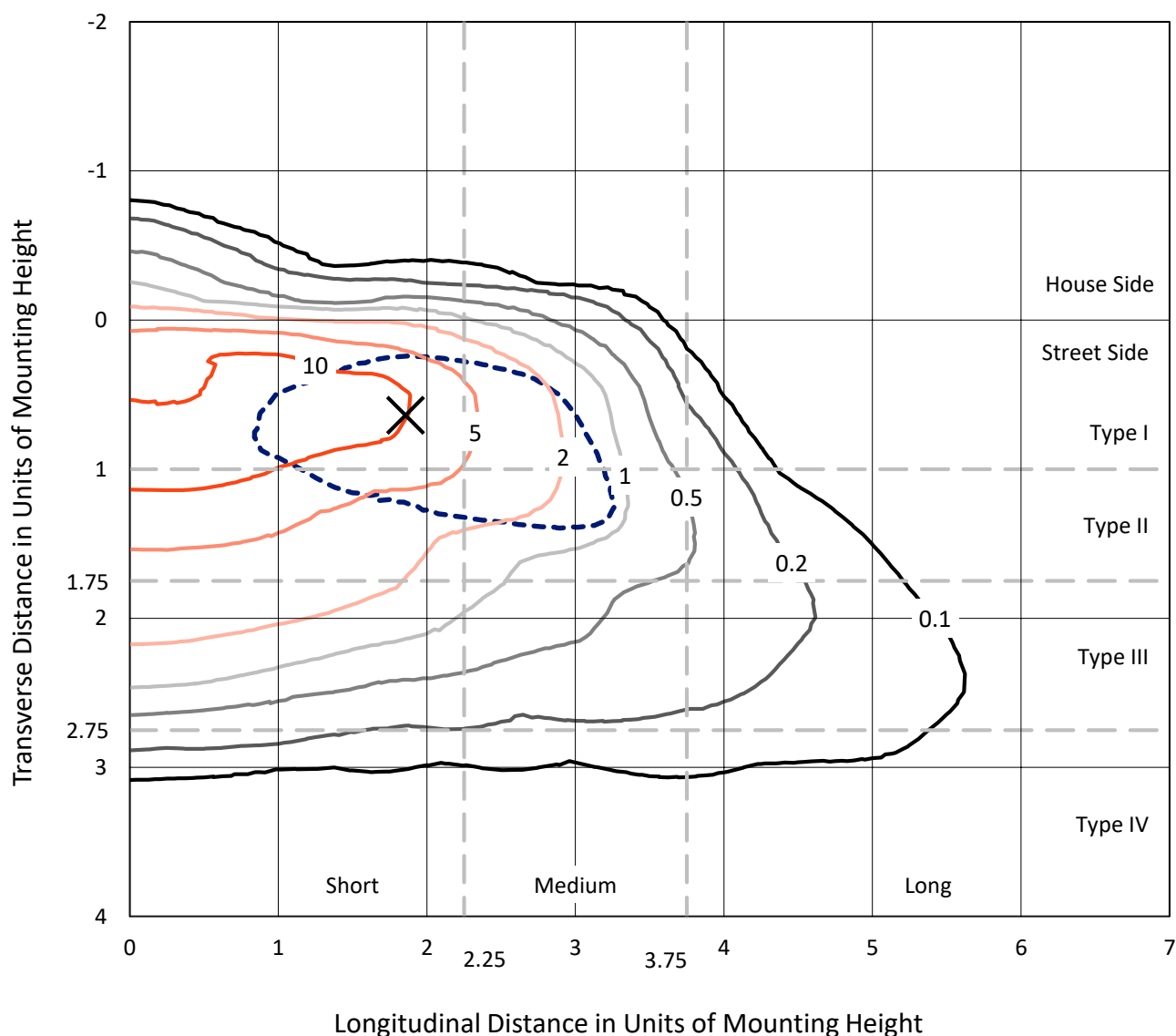


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

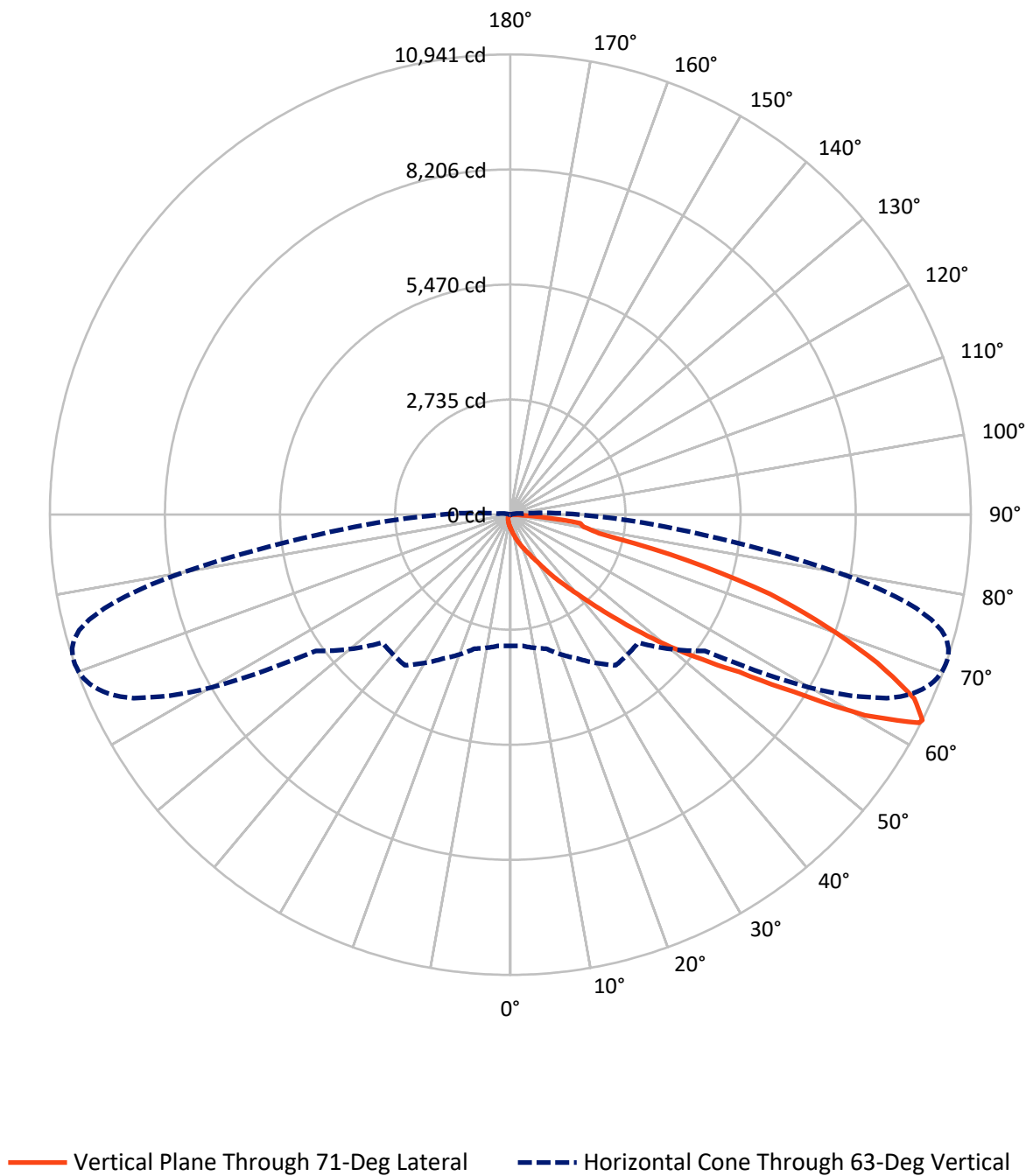


Based on 10 foot mounting height. Maximum calculated value = 17.2 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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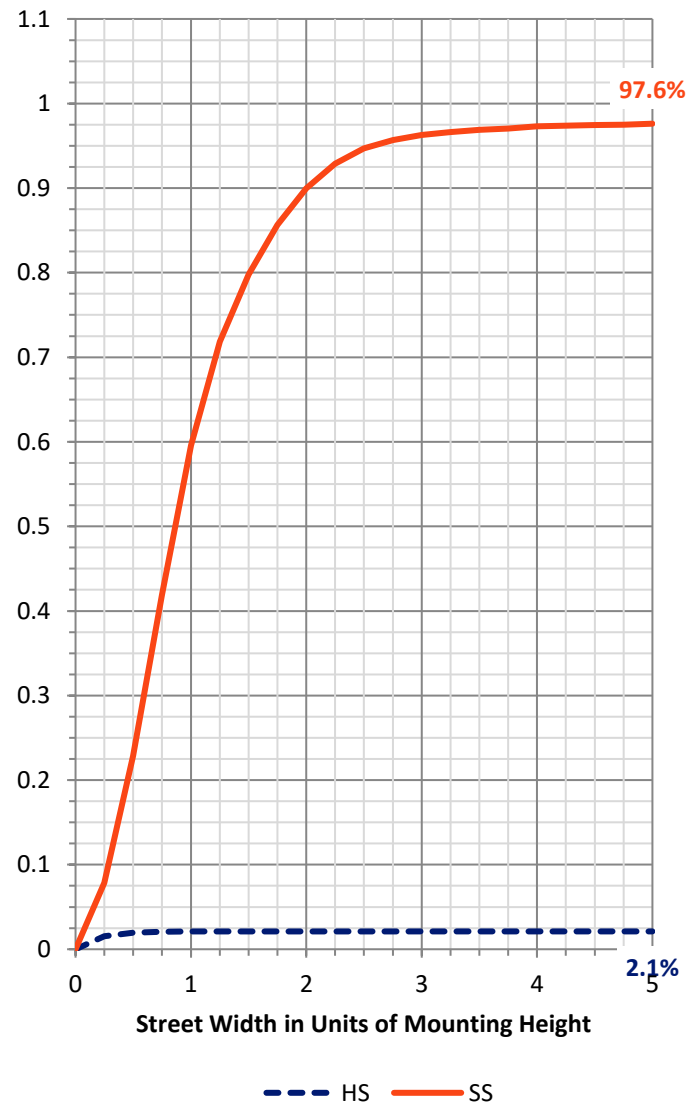
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	174.0	0.0	174.0
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	8021.9	0.0	8021.9
	% Fixture	97.9	0.0	97.9
Total	Lumens	8195.9	0.0	8195.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	34.7	0.4
10°-20°	134.8	1.6
20°-30°	273.7	3.3
30°-40°	668.8	8.2
40°-50°	1495.6	18.2
50°-60°	2103.0	25.7
60°-70°	2472.9	30.2
70°-80°	893.0	10.9
80°-90°	119.4	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°	8195.9	100.0
0°-180°	8195.9	100.0

Coefficient of Utilization



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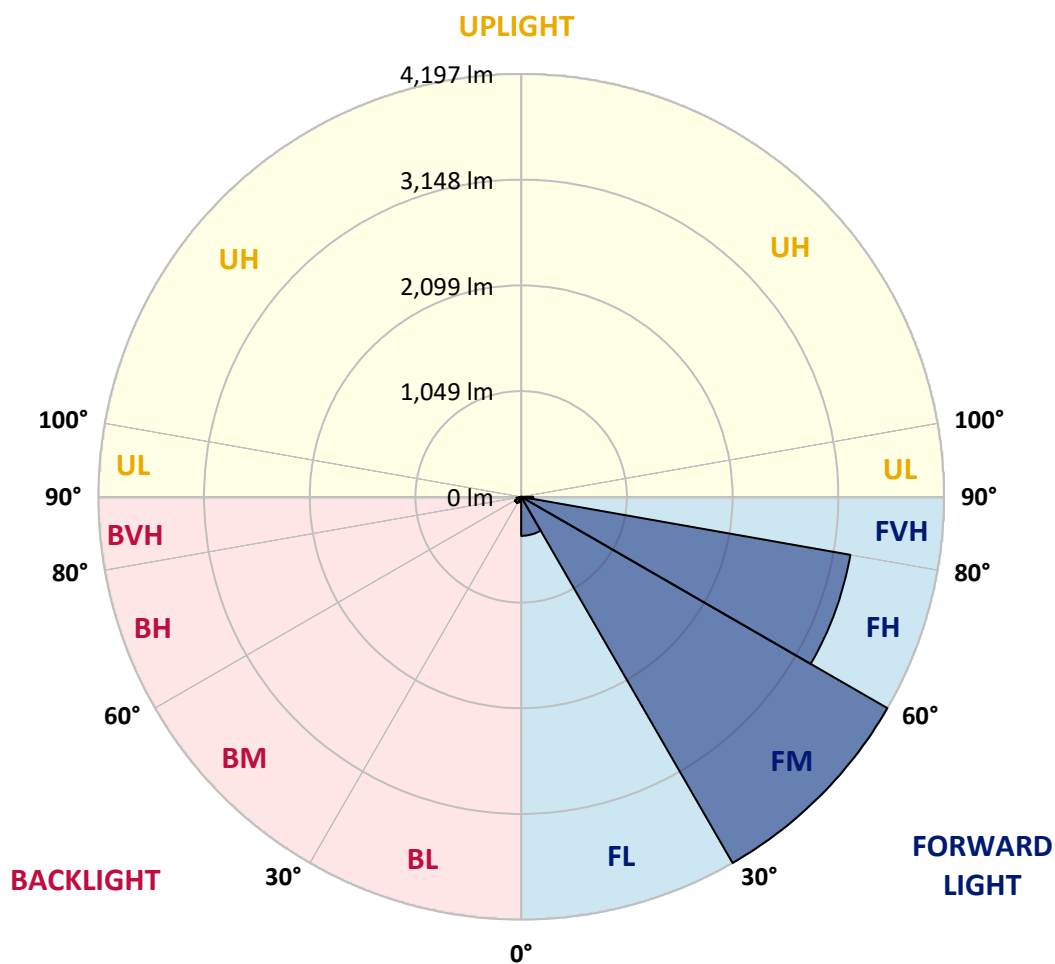
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	387.3	4.7			
FM	(30°-60°)	4197.2	51.2			
FH	(60°-80°)	3318.2	40.5			G2/5000
FVH	(80°-90°)	119.2	1.5			G2/225
BL	(0°-30°)	55.9	0.7	B0/110		
BM	(30°-60°)	70.1	0.9	B0/220		
BH	(60°-80°)	47.7	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°	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4
2.5°	411.2	415.7	412.7	405.3	396.3	384.4	374.0	374.0	372.5	368.0	369.5
5°	539.3	540.9	534.9	517.0	500.6	475.3	447.0	444.0	441.0	436.6	435.1
7.5°	664.6	670.5	664.6	645.1	612.4	573.6	528.9	524.5	515.6	515.6	509.6
10°	792.7	792.7	786.7	764.4	734.5	679.4	622.8	615.3	604.9	602.0	593.0
12.5°	883.5	883.5	880.5	868.7	844.8	795.7	727.1	719.7	706.3	701.8	691.4
15°	919.3	919.3	920.8	931.2	932.8	910.4	838.8	832.9	819.5	807.5	803.1
17.5°	941.6	940.2	940.2	955.1	981.9	996.8	950.6	944.6	929.8	923.8	908.9
20°	990.8	987.9	978.9	978.9	1004.2	1056.3	1056.3	1054.9	1038.5	1034.0	1026.6
22.5°	1063.9	1060.9	1034.0	1011.6	1023.6	1089.2	1150.3	1147.3	1141.3	1135.3	1130.9
25°	1183.0	1172.6	1126.4	1060.9	1050.5	1120.5	1221.7	1229.3	1233.7	1233.7	1236.7
27.5°	1363.3	1349.9	1268.0	1145.8	1099.6	1171.1	1300.7	1315.7	1329.0	1332.0	1345.4
30°	1613.6	1589.8	1472.1	1293.3	1187.5	1245.6	1417.0	1433.4	1452.7	1458.7	1479.5
32.5°	2024.8	2011.4	1898.3	1630.0	1403.5	1391.7	1579.4	1600.2	1625.5	1636.0	1661.3
35°	2650.7	2653.7	2561.3	2319.9	2007.0	1843.1	1869.9	1887.8	1896.7	1928.0	1941.4
37.5°	3075.3	3082.7	3103.6	3008.3	2784.8	2617.8	2407.7	2427.2	2381.0	2385.4	2386.9
40°	3307.7	3331.5	3453.8	3546.2	3528.2	3431.4	3263.0	3273.4	3187.0	3167.7	3073.8
42.5°	3462.6	3493.9	3689.2	3975.2	4121.2	4209.2	4170.5	4165.9	4098.9	4073.6	3994.6
45°	3559.5	3587.9	3833.7	4255.3	4592.1	4848.3	4954.1	4966.0	4909.4	4884.1	4818.6
47.5°	3555.0	3587.9	3851.5	4359.7	4855.8	5265.5	5563.6	5578.4	5612.7	5590.3	5594.8
50°	3358.4	3389.7	3654.9	4182.3	4778.3	5456.3	6001.6	6049.3	6104.4	6141.6	6159.6
52.5°	3120.0	3142.3	3377.8	3878.4	4447.5	5377.3	6260.8	6342.8	6424.7	6494.8	6543.9
55°	3032.0	3057.4	3242.1	3657.9	4182.3	5046.5	6381.5	6502.2	6618.5	6733.2	6827.0
57.5°	3078.3	3102.1	3234.7	3553.6	4024.4	4697.9	6415.8	6603.5	6794.3	6980.5	7165.2
60°	3248.1	3273.4	3386.7	3650.4	3982.7	4496.7	6281.7	6593.1	6910.4	7235.3	7540.7
62.5°	3181.1	3191.5	3358.4	3820.3	4280.7	4325.4	5794.5	6229.6	6713.8	7214.5	7707.6
63°	3117.0	3129.0	3298.8	3774.1	4371.6	4300.0	5644.0	6102.9	6613.9	7153.3	7689.7
65°	2826.5	2827.9	2957.6	3333.1	4270.3	4344.7	4973.6	5411.6	5998.6	6645.2	7323.2
67.5°	2109.8	2099.4	2224.5	2510.6	3352.4	4346.3	4268.7	4514.6	4922.9	5496.5	6104.4
70°	748.0	731.6	934.2	1330.5	2088.9	3555.0	3668.3	3684.7	3798.0	4107.8	4489.3
72.5°	242.8	247.4	297.9	487.2	962.5	2392.9	3321.1	3270.5	3240.7	3239.2	3289.8
75°	96.8	98.4	119.2	216.1	432.1	1153.2	2908.5	2936.7	2947.2	2962.0	2978.5
77.5°	46.1	50.7	67.0	120.7	214.5	570.7	2081.5	2321.3	2458.4	2564.3	2628.3
80°	16.4	19.4	37.3	74.5	99.8	262.2	1096.6	1323.1	1524.2	1783.5	2007.0
82.5°	0.0	0.0	7.4	52.1	55.1	105.8	450.0	527.4	603.4	782.2	1004.2
85°	0.0	0.0	0.0	14.9	16.4	17.9	152.0	183.3	205.7	239.9	277.1
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.4	9.0	22.3	34.3
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4
2.5°	366.5	365.1	365.1	362.1	360.6	357.6	356.1	351.6	350.2	350.2	350.2
5°	433.6	427.6	424.6	417.2	412.7	411.2	403.8	400.8	396.3	397.8	390.3
7.5°	508.0	497.6	493.2	482.7	479.8	469.3	466.3	458.9	454.5	445.5	442.5
10°	590.0	576.6	569.2	552.7	548.3	540.9	531.9	523.0	515.6	506.6	502.2
12.5°	683.9	672.0	666.0	643.7	633.3	622.8	610.9	599.0	587.0	579.6	569.2
15°	794.1	774.8	768.8	748.0	730.1	716.7	700.3	685.4	676.4	661.6	651.1
17.5°	902.9	883.5	879.1	847.8	828.4	819.5	801.6	782.2	765.8	751.0	734.5
20°	1011.6	998.3	986.3	956.5	935.7	920.8	896.9	877.6	864.2	843.4	822.5
22.5°	1120.5	1107.0	1098.1	1066.8	1047.5	1026.6	1005.8	984.9	965.5	940.2	916.4
25°	1232.2	1223.3	1218.8	1190.5	1172.6	1153.2	1132.3	1108.6	1084.7	1056.3	1031.1
27.5°	1348.4	1351.4	1342.4	1336.5	1317.1	1303.7	1271.0	1254.6	1236.7	1202.4	1171.1
30°	1495.9	1504.9	1501.9	1506.4	1494.4	1485.5	1460.2	1439.3	1418.4	1385.7	1349.9
32.5°	1682.2	1694.1	1700.0	1716.5	1710.5	1707.5	1700.0	1670.2	1655.3	1598.8	1583.8
35°	1969.7	1963.8	1989.1	2002.5	1996.5	1993.6	1984.7	1968.3	1950.4	1910.1	1872.9
37.5°	2343.7	2349.7	2358.6	2331.8	2313.9	2312.5	2285.6	2269.2	2243.9	2199.2	2154.5
40°	3029.1	2991.9	2950.2	2836.9	2787.8	2759.4	2680.4	2658.1	2614.8	2553.8	2507.6
42.5°	3920.1	3882.8	3757.7	3568.5	3467.2	3327.1	3263.0	3184.1	3123.0	3023.2	2969.5
45°	4805.2	4697.9	4682.9	4462.4	4337.3	4152.5	4037.8	3905.2	3766.6	3635.5	3540.2
47.5°	5551.6	5527.7	5454.8	5320.6	5204.5	5049.5	4902.0	4697.9	4554.8	4368.6	4197.2
50°	6149.1	6147.6	6120.7	6043.3	5946.5	5821.3	5691.7	5518.9	5356.5	5128.5	4945.2
52.5°	6596.1	6619.9	6628.9	6605.0	6567.8	6457.5	6392.0	6247.4	6110.3	5916.6	5718.5
55°	6923.8	7011.8	7056.5	7107.1	7096.7	7058.0	7055.0	6961.1	6898.6	6745.0	6605.0
57.5°	7329.2	7473.7	7612.2	7858.1	7867.0	7953.5	7998.2	8042.9	8054.7	7993.7	7947.5
60°	7844.6	8139.7	8401.9	8916.0	9050.1	9261.6	9398.7	9547.7	9674.3	9684.8	9681.8
62.5°	8208.2	8662.7	9085.8	9848.7	10109.4	10353.8	10537.0	10681.6	10769.5	10858.9	10900.6
63°	8218.7	8716.3	9166.3	9953.0	10227.1	10459.6	10633.9	10768.0	10860.4	10914.0	10940.8
65°	7966.9	8570.3	9106.6	9890.4	10148.1	10382.1	10473.0	10560.9	10605.6	10626.4	10547.4
67.5°	6752.6	7342.6	7968.3	8844.4	9064.9	9345.1	9419.6	9464.3	9485.1	9480.7	9413.6
70°	5049.5	5544.2	6240.0	7241.2	7533.3	7807.5	7977.3	8050.3	8074.1	8066.7	7966.9
72.5°	3525.3	3815.8	4389.4	5503.9	5901.8	6253.4	6463.5	6572.2	6594.6	6549.9	6457.5
75°	2960.6	2975.5	3105.1	3714.4	4086.9	4462.4	4699.3	4767.9	4723.2	4587.6	4352.2
77.5°	2643.2	2676.0	2676.0	2766.9	2839.9	2944.2	2966.5	2799.6	2606.0	2355.6	2153.0
80°	2217.1	2331.8	2412.3	2479.3	2486.7	2465.9	2410.7	2316.9	2167.9	1977.2	1765.6
82.5°	1347.0	1573.4	1665.8	2011.4	2181.3	2296.0	2287.1	2161.9	2048.7	1850.6	1670.2
85°	339.7	366.5	397.8	517.0	579.6	707.7	788.2	825.4	838.8	770.3	697.3
87.5°	32.8	22.3	37.3	28.3	40.3	29.8	40.3	37.3	46.1	49.1	53.7
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4
2.5°	347.2	345.6	344.2	342.7	341.2	339.7	336.8	336.8	333.8	332.2	330.8
5°	385.9	382.9	381.5	378.5	374.0	371.0	366.5	360.6	356.1	354.6	351.6
7.5°	435.1	427.6	424.6	420.2	414.2	405.3	399.3	394.9	387.4	382.9	374.0
10°	490.2	482.7	473.8	464.9	455.9	445.5	438.0	432.1	420.2	414.2	403.8
12.5°	560.2	546.9	536.4	524.5	512.6	500.6	491.7	473.8	463.3	450.0	441.0
15°	631.7	619.8	607.9	593.0	575.1	555.7	546.9	530.4	517.0	496.2	484.2
17.5°	718.1	695.8	678.0	660.0	643.7	625.8	607.9	582.6	563.2	545.3	521.5
20°	803.1	776.3	756.9	733.1	709.3	680.9	660.0	642.1	615.3	591.6	566.2
22.5°	893.9	867.2	835.8	812.1	779.3	756.9	728.6	698.8	672.0	640.7	609.4
25°	1004.2	975.9	940.2	908.9	871.6	840.4	806.1	771.8	739.0	703.3	663.0
27.5°	1139.9	1110.0	1071.3	1034.0	984.9	946.1	913.4	867.2	825.4	780.7	734.5
30°	1311.1	1278.4	1230.7	1177.0	1127.9	1084.7	1038.5	977.4	931.2	877.6	818.0
32.5°	1534.7	1495.9	1431.8	1381.2	1320.1	1263.5	1199.4	1138.3	1072.8	1002.8	934.2
35°	1816.3	1780.5	1706.0	1631.5	1564.5	1497.4	1417.0	1347.0	1254.6	1169.6	1081.7
37.5°	2108.3	2044.2	1975.7	1895.3	1811.8	1731.3	1633.0	1536.2	1430.4	1338.0	1227.7
40°	2442.0	2364.6	2307.9	2221.5	2103.8	1989.1	1898.3	1777.6	1644.9	1521.2	1391.7
42.5°	2899.5	2813.1	2711.8	2580.6	2495.7	2361.6	2243.9	2100.8	1926.5	1788.0	1631.5
45°	3428.4	3310.7	3212.4	3085.7	2982.9	2816.1	2679.0	2488.3	2313.9	2132.1	1941.4
47.5°	4031.8	3885.8	3742.8	3617.6	3453.8	3289.8	3115.6	2912.9	2689.4	2489.7	2263.2
50°	4724.6	4517.5	4319.4	4158.5	3933.5	3744.3	3555.0	3327.1	3079.7	2850.3	2592.5
52.5°	5495.0	5255.1	4992.9	4745.5	4484.8	4241.9	4013.9	3751.7	3476.1	3196.0	2908.5
55°	6424.7	6244.4	5936.1	5621.7	5272.9	4948.2	4654.6	4329.9	3994.6	3626.6	3324.1
57.5°	7880.5	7792.5	7534.7	7220.4	6765.9	6371.1	5873.5	5475.6	4989.9	4483.3	4092.9
60°	9853.2	9744.3	9599.8	9345.1	8984.5	8448.1	7899.8	7281.5	6542.5	5840.7	5174.7
62.5°	10905.1	10866.3	10748.7	10572.8	10236.1	9812.9	9260.2	8580.7	7746.4	6894.1	6044.8
63°	10936.3	10887.2	10785.8	10607.1	10310.6	9900.9	9358.4	8698.4	7881.9	7013.3	6146.1
65°	10513.2	10493.9	10391.0	10195.8	9993.2	9680.3	9260.2	8692.4	8007.0	7186.1	6323.4
67.5°	9324.2	9266.1	9108.2	9048.6	8907.0	8689.4	8369.1	7978.7	7488.6	6843.4	6098.4
70°	7886.3	7799.9	7601.8	7496.0	7323.2	7186.1	6991.0	6712.3	6409.8	5959.9	5404.1
72.5°	6362.1	6183.3	6001.6	5726.0	5484.6	5240.2	5024.1	4827.5	4495.2	4313.4	3891.8
75°	4131.6	3806.8	3495.5	3078.3	2702.8	2370.6	2047.2	1883.3	1542.1	1403.5	1205.4
77.5°	1960.8	1779.0	1534.7	1345.4	1104.0	901.4	736.0	552.7	433.6	339.7	259.2
80°	1582.3	1428.8	1281.4	1110.0	928.2	740.5	567.7	424.6	300.9	208.6	147.5
82.5°	1411.0	1244.1	1062.3	944.6	821.0	672.0	551.3	450.0	332.2	242.8	165.4
85°	548.3	461.9	356.1	290.5	226.5	186.2	168.4	116.2	90.9	71.5	55.1
87.5°	47.7	38.7	31.3	20.9	22.3	11.9	13.4	9.0	7.4	7.4	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°	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4	314.4
2.5°	329.3	327.8	326.3	323.3	323.3	320.4	318.8	317.4	309.9	293.5	280.1
5°	345.6	342.7	339.7	335.2	332.2	327.8	324.8	320.4	303.9	272.7	245.8
7.5°	369.5	363.5	359.1	350.2	345.6	339.7	335.2	327.8	300.9	253.3	216.1
10°	397.8	387.4	379.9	369.5	360.6	353.1	345.6	335.2	297.9	232.4	189.2
12.5°	432.1	420.2	405.3	393.3	381.5	371.0	360.6	347.2	293.5	214.5	168.4
15°	466.3	448.5	438.0	421.6	405.3	390.3	375.5	363.5	295.1	195.2	150.5
17.5°	505.1	487.2	464.9	447.0	429.1	409.8	391.9	368.0	287.5	180.3	137.1
20°	542.3	517.0	496.2	473.8	448.5	424.6	402.3	381.5	281.6	165.4	125.1
22.5°	582.6	552.7	526.0	497.6	466.3	439.5	412.7	385.9	271.2	152.0	114.7
25°	631.7	597.4	558.7	524.5	491.7	458.9	424.6	391.9	260.8	140.1	107.3
27.5°	691.4	646.7	607.9	564.7	518.5	476.8	439.5	403.8	250.4	131.1	99.8
30°	767.4	715.1	660.0	604.9	555.7	508.0	455.9	411.2	239.9	122.1	92.4
32.5°	868.7	803.1	736.0	672.0	606.4	545.3	490.2	432.1	233.9	114.7	85.0
35°	1002.8	917.8	835.8	755.4	676.4	602.0	530.4	464.9	233.9	105.8	76.0
37.5°	1129.4	1031.1	926.8	826.9	733.1	646.7	561.7	482.7	222.0	98.4	68.6
40°	1266.4	1148.7	1026.6	908.9	795.7	688.4	591.6	500.6	211.5	89.4	61.1
42.5°	1476.5	1327.6	1168.2	1031.1	895.5	762.8	642.1	534.9	198.1	80.4	53.7
45°	1752.2	1562.9	1375.3	1208.3	1035.5	873.1	730.1	597.4	195.2	73.0	46.1
47.5°	2047.2	1823.7	1603.2	1390.1	1187.5	998.3	826.9	667.5	195.2	65.6	40.3
50°	2340.7	2060.7	1825.2	1577.9	1349.9	1126.4	922.3	740.5	196.7	59.6	32.8
52.5°	2606.0	2306.5	2042.7	1756.7	1504.9	1245.6	1023.6	812.1	193.7	52.1	26.8
55°	2974.0	2622.4	2316.9	2001.0	1706.0	1414.0	1162.2	919.3	195.2	46.1	22.3
57.5°	3651.9	3239.2	2871.2	2457.0	2117.2	1740.3	1434.8	1139.9	213.1	38.7	16.4
60°	4624.8	4088.5	3571.5	3066.3	2634.3	2185.8	1789.4	1442.3	250.4	31.3	11.9
62.5°	5278.9	4577.2	3960.4	3403.1	2900.9	2431.6	1999.5	1604.6	275.6	25.3	7.4
63°	5346.0	4620.4	4000.5	3425.5	2912.9	2443.6	2008.5	1616.6	277.1	23.8	7.4
65°	5472.6	4694.9	4022.9	3429.9	2900.9	2427.2	2002.5	1615.1	280.1	19.4	6.0
67.5°	5328.1	4580.1	3893.3	3301.8	2796.6	2330.3	1928.0	1555.5	278.6	13.4	4.4
70°	4764.9	4145.1	3541.6	2990.3	2531.4	2109.8	1755.2	1418.4	256.2	9.0	3.0
72.5°	3498.5	3076.7	2609.0	2211.1	1907.1	1583.8	1351.4	1065.3	198.1	6.0	1.4
75°	1037.0	944.6	794.1	700.3	618.3	511.0	454.5	354.6	101.3	3.0	0.0
77.5°	207.1	187.7	168.4	153.5	144.5	123.7	117.7	96.8	41.7	1.4	0.0
80°	108.8	89.4	76.0	67.0	58.1	47.7	40.3	32.8	7.4	0.0	0.0
82.5°	104.3	70.0	50.7	41.7	35.7	28.3	22.3	16.4	4.4	0.0	0.0
85°	38.7	29.8	22.3	17.9	14.9	13.4	10.4	9.0	0.0	0.0	0.0
87.5°	6.0	4.4	4.4	3.0	3.0	1.4	1.4	1.4	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-F06-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	314.4	314.4	314.4	314.4	314.4	314.4	314.4
2.5°	266.7	254.8	248.8	241.4	241.4	239.9	242.8
5°	222.0	205.7	193.7	184.8	186.2	181.8	183.3
7.5°	187.7	171.4	160.9	155.0	153.5	152.0	152.0
10°	162.4	147.5	138.5	134.1	132.6	132.6	132.6
12.5°	144.5	129.7	122.1	119.2	119.2	117.7	117.7
15°	129.7	117.7	110.3	107.3	107.3	105.8	107.3
17.5°	117.7	105.8	99.8	96.8	96.8	95.4	95.4
20°	107.3	96.8	90.9	86.4	86.4	85.0	86.4
22.5°	98.4	87.9	80.4	77.5	76.0	74.5	76.0
25°	89.4	79.0	71.5	67.0	65.6	65.6	64.1
27.5°	82.0	71.5	62.6	58.1	56.6	56.6	55.1
30°	74.5	62.6	53.7	49.1	47.7	47.7	47.7
32.5°	67.0	53.7	46.1	41.7	40.3	40.3	40.3
35°	59.6	46.1	38.7	34.3	32.8	32.8	32.8
37.5°	50.7	38.7	29.8	26.8	25.3	23.8	23.8
40°	43.2	29.8	22.3	19.4	16.4	16.4	16.4
42.5°	35.7	23.8	16.4	11.9	10.4	9.0	10.4
45°	29.8	17.9	10.4	6.0	4.4	4.4	4.4
47.5°	23.8	11.9	4.4	1.4	1.4	1.4	1.4
50°	17.9	7.4	1.4	0.0	0.0	1.4	1.4
52.5°	13.4	4.4	0.0	0.0	0.0	0.0	0.0
55°	7.4	1.4	0.0	0.0	0.0	0.0	0.0
57.5°	4.4	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°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.4	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.4	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)