

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: P165052

Luminaire Tested: **VST-F05-LED-E-U-SL2-HSS**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165052
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-F05-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: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7477.8 lumens
Efficiency: N/A
Efficacy: 56.1 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): 133.3
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

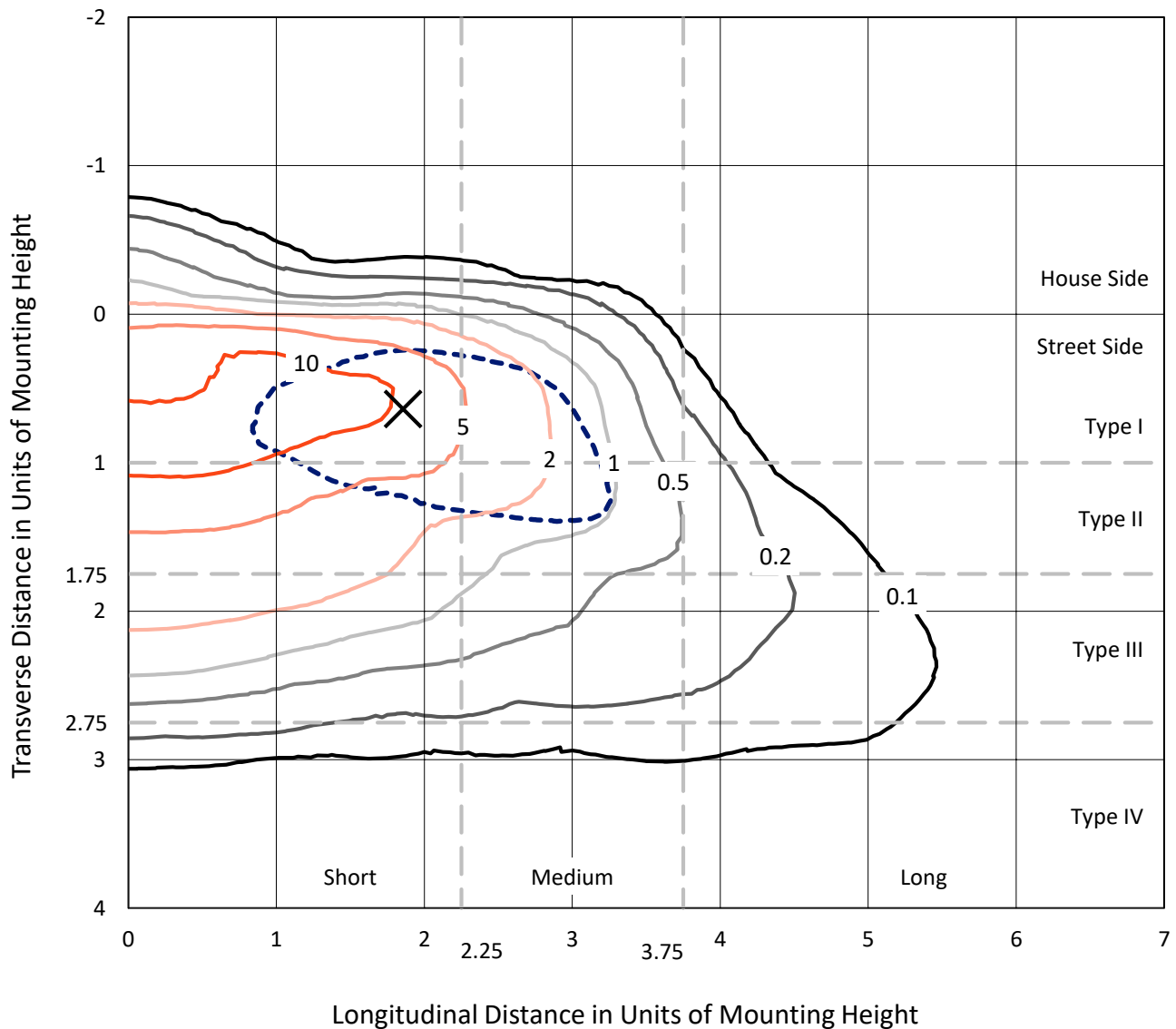


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

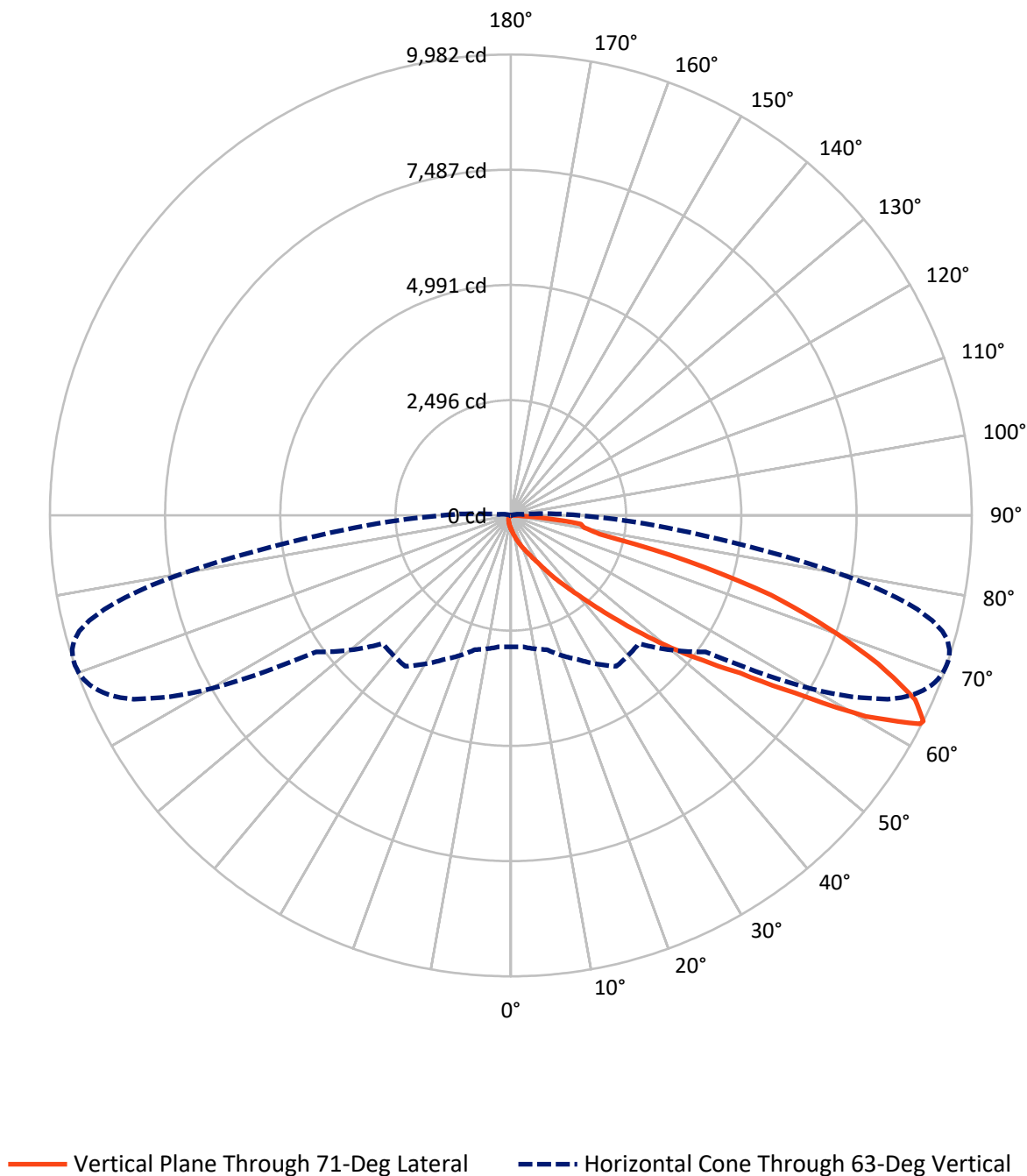


Based on 10 foot mounting height. Maximum calculated value = 15.7 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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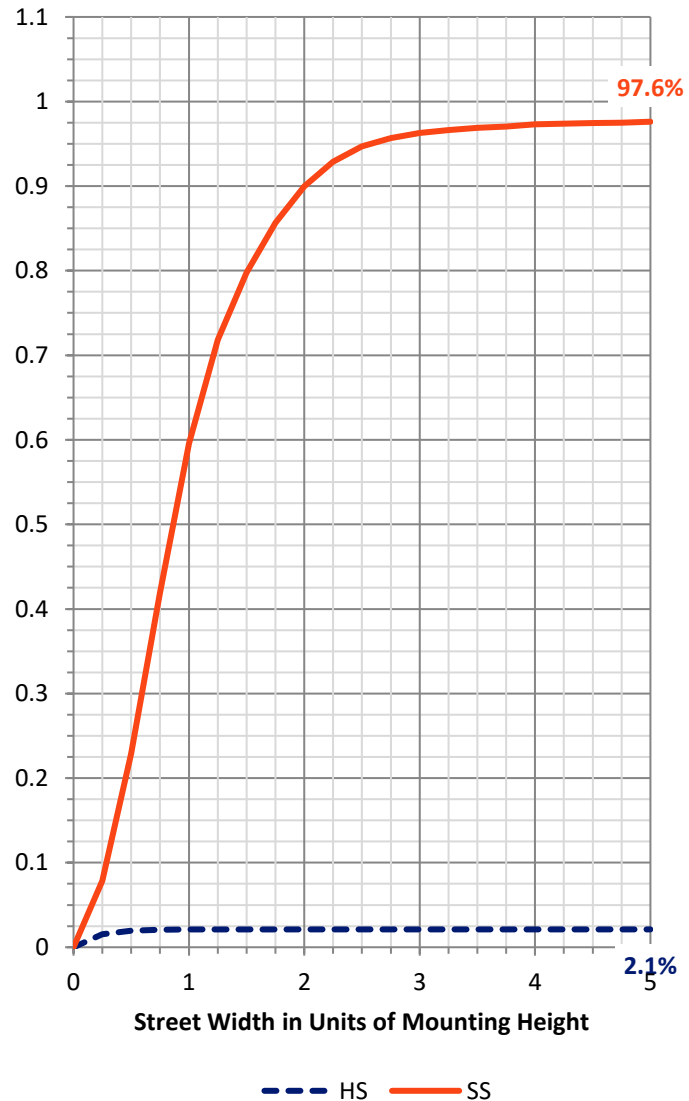
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	158.8	0.0	158.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7319.1	0.0	7319.1
	% Fixture	97.9	0.0	97.9
Total	Lumens	7477.8	0.0	7477.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.7	0.4
10°-20°	123.0	1.6
20°-30°	249.7	3.3
30°-40°	610.2	8.2
40°-50°	1364.6	18.2
50°-60°	1918.7	25.7
60°-70°	2256.3	30.2
70°-80°	814.7	10.9
80°-90°	108.9	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°	7477.8	100.0
0°-180°	7477.8	100.0

Coefficient of Utilization



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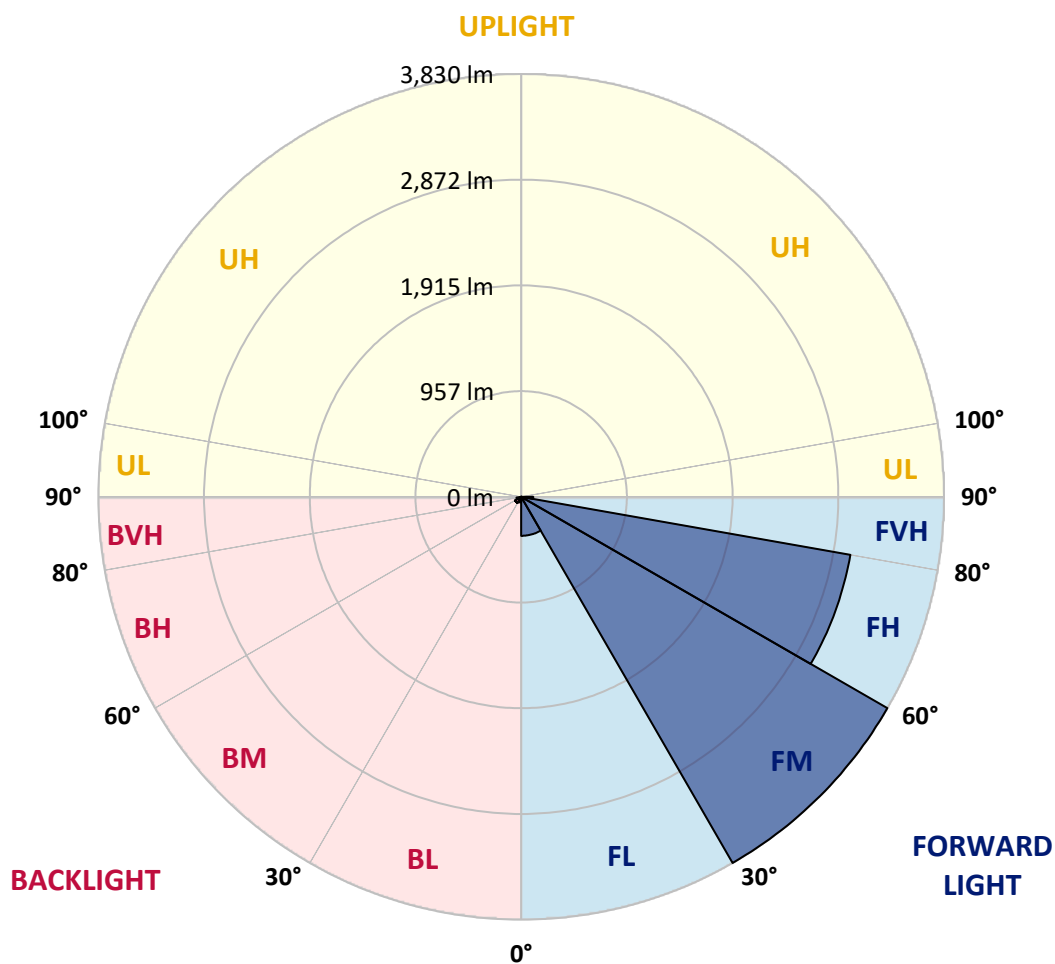
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	353.4	4.7			
FM	(30°-60°)	3829.5	51.2			
FH	(60°-80°)	3027.5	40.5			G2/5000
FVH	(80°-90°)	108.7	1.5			G2/225
BL	(0°-30°)	51.0	0.7	B0/110		
BM	(30°-60°)	64.0	0.9	B0/220		
BH	(60°-80°)	43.5	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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°	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9
2.5°	375.2	379.2	376.5	369.8	361.6	350.8	341.2	341.2	339.9	335.7	337.1
5°	492.1	493.5	488.1	471.7	456.8	433.6	407.8	405.1	402.4	398.3	397.0
7.5°	606.3	611.7	606.3	588.6	558.7	523.4	482.6	478.6	470.4	470.4	464.9
10°	723.2	723.2	717.8	697.4	670.2	619.9	568.2	561.4	551.9	549.2	541.0
12.5°	806.1	806.1	803.4	792.6	770.8	726.0	663.4	656.6	644.4	640.3	630.8
15°	838.7	838.7	840.1	849.6	851.0	830.6	765.3	759.9	747.7	736.8	732.7
17.5°	859.1	857.8	857.8	871.4	895.9	909.5	867.3	861.8	848.3	842.9	829.2
20°	904.0	901.3	893.1	893.1	916.3	963.8	963.8	962.5	947.5	943.4	936.6
22.5°	970.7	967.9	943.4	923.0	933.9	993.8	1049.5	1046.8	1041.3	1035.9	1031.8
25°	1079.4	1069.9	1027.7	967.9	958.4	1022.3	1114.7	1121.6	1125.6	1125.6	1128.3
27.5°	1243.9	1231.7	1156.9	1045.4	1003.3	1068.5	1186.8	1200.4	1212.6	1215.3	1227.6
30°	1472.2	1450.5	1343.1	1180.0	1083.5	1136.5	1292.9	1307.8	1325.5	1330.9	1349.9
32.5°	1847.4	1835.2	1732.0	1487.2	1280.6	1269.7	1441.0	1460.0	1483.1	1492.6	1515.7
35°	2418.5	2421.2	2336.9	2116.6	1831.2	1681.6	1706.1	1722.4	1730.5	1759.1	1771.3
37.5°	2805.9	2812.6	2831.7	2744.7	2540.8	2388.5	2196.8	2214.6	2172.4	2176.4	2177.8
40°	3018.0	3039.7	3151.2	3235.5	3219.1	3130.8	2977.2	2986.7	2907.8	2890.2	2804.5
42.5°	3159.3	3187.8	3366.0	3626.9	3760.2	3840.4	3805.1	3801.0	3739.8	3716.7	3644.6
45°	3247.7	3273.5	3497.8	3882.5	4189.8	4423.6	4520.1	4531.0	4479.3	4456.2	4396.4
47.5°	3243.6	3273.5	3514.1	3977.7	4430.4	4804.2	5076.2	5089.7	5121.0	5100.6	5104.6
50°	3064.2	3092.7	3334.7	3815.9	4359.7	4978.2	5475.8	5519.3	5569.6	5603.6	5619.9
52.5°	2846.7	2867.0	3081.8	3538.6	4057.9	4906.2	5712.3	5787.1	5861.9	5925.8	5970.6
55°	2766.4	2789.5	2958.1	3337.4	3815.9	4604.4	5822.4	5932.6	6038.6	6143.3	6228.9
57.5°	2808.6	2830.3	2951.3	3242.2	3671.9	4286.3	5853.7	6025.0	6199.0	6368.9	6537.5
60°	2963.6	2986.7	3090.0	3330.6	3633.8	4102.8	5731.4	6015.5	6305.0	6601.4	6880.1
62.5°	2902.4	2911.9	3064.2	3485.6	3905.6	3946.4	5286.8	5683.8	6125.6	6582.4	7032.3
63°	2843.9	2854.8	3009.8	3443.4	3988.6	3923.3	5149.5	5568.2	6034.5	6526.6	7016.1
65°	2578.9	2580.2	2698.5	3041.1	3896.1	3964.1	4537.8	4937.5	5473.1	6063.1	6681.6
67.5°	1925.0	1915.5	2029.6	2290.7	3058.7	3965.5	3894.7	4119.1	4491.6	5015.0	5569.6
70°	682.5	667.5	852.4	1213.9	1905.9	3243.6	3346.9	3361.9	3465.2	3748.0	4096.0
72.5°	221.6	225.7	271.8	444.5	878.2	2183.3	3030.2	2983.9	2956.8	2955.4	3001.6
75°	88.3	89.7	108.7	197.1	394.3	1052.2	2653.6	2679.4	2689.0	2702.5	2717.5
77.5°	42.1	46.2	61.2	110.1	195.7	520.7	1899.1	2118.0	2243.0	2339.6	2398.1
80°	14.9	17.7	34.0	67.9	91.1	239.2	1000.5	1207.2	1390.7	1627.3	1831.2
82.5°	0.0	0.0	6.8	47.6	50.3	96.5	410.5	481.2	550.5	713.7	916.3
85°	0.0	0.0	0.0	13.6	14.9	16.3	138.7	167.3	187.6	218.8	252.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.3	4.0	8.2	20.4	31.3
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°	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9
2.5°	334.4	333.1	333.1	330.4	329.0	326.2	324.9	320.8	319.5	319.5	319.5
5°	395.6	390.1	387.4	380.6	376.5	375.2	368.4	365.7	361.6	363.0	356.1
7.5°	463.5	454.0	450.0	440.4	437.8	428.2	425.5	418.7	414.7	406.5	403.8
10°	538.3	526.1	519.3	504.3	500.3	493.5	485.3	477.2	470.4	462.2	458.2
12.5°	624.0	613.1	607.7	587.3	577.8	568.2	557.4	546.5	535.6	528.8	519.3
15°	724.6	706.9	701.4	682.5	666.1	653.9	639.0	625.3	617.2	603.6	594.0
17.5°	823.8	806.1	802.1	773.5	755.9	747.7	731.4	713.7	698.7	685.2	670.2
20°	923.0	910.8	899.9	872.7	853.8	840.1	818.3	800.7	788.5	769.5	750.4
22.5°	1022.3	1010.0	1001.9	973.4	955.7	936.6	917.7	898.6	880.9	857.8	836.1
25°	1124.3	1116.1	1112.0	1086.2	1069.9	1052.2	1033.1	1011.4	989.6	963.8	940.8
27.5°	1230.3	1233.0	1224.8	1219.4	1201.7	1189.5	1159.6	1144.7	1128.3	1097.0	1068.5
30°	1364.8	1373.0	1370.3	1374.4	1363.5	1355.3	1332.2	1313.2	1294.2	1264.3	1231.7
32.5°	1534.8	1545.7	1551.1	1566.1	1560.7	1557.9	1551.1	1523.9	1510.3	1458.7	1445.1
35°	1797.2	1791.7	1814.8	1827.1	1821.6	1819.0	1810.8	1795.8	1779.5	1742.8	1708.8
37.5°	2138.4	2143.8	2152.0	2127.5	2111.2	2109.9	2085.4	2070.4	2047.3	2006.5	1965.7
40°	2763.7	2729.8	2691.7	2588.4	2543.5	2517.7	2445.6	2425.2	2385.8	2330.0	2287.9
42.5°	3576.7	3542.7	3428.5	3255.9	3163.4	3035.6	2977.2	2905.1	2849.4	2758.3	2709.4
45°	4384.2	4286.3	4272.7	4071.5	3957.3	3788.7	3684.1	3563.0	3436.7	3317.0	3230.0
47.5°	5065.3	5043.5	4976.9	4854.5	4748.5	4607.1	4472.5	4286.3	4155.8	3985.9	3829.5
50°	5610.3	5609.0	5584.5	5513.8	5425.5	5311.3	5193.0	5035.4	4887.2	4679.2	4512.0
52.5°	6018.2	6040.0	6048.1	6026.3	5992.4	5891.8	5832.0	5700.1	5575.0	5398.3	5217.5
55°	6317.2	6397.5	6438.3	6484.5	6475.0	6439.7	6436.9	6351.3	6294.2	6154.1	6026.3
57.5°	6687.1	6818.9	6945.3	7169.7	7177.8	7256.7	7297.5	7338.3	7349.1	7293.3	7251.2
60°	7157.4	7426.6	7665.8	8134.9	8257.2	8450.2	8575.3	8711.3	8826.8	8836.3	8833.6
62.5°	7489.1	7903.7	8289.8	8985.8	9223.8	9446.7	9613.9	9745.8	9826.0	9907.5	9945.6
63°	7498.7	7952.7	8363.2	9081.0	9331.2	9543.2	9702.3	9824.7	9908.9	9957.8	9982.3
65°	7268.9	7819.5	8308.8	9023.9	9259.1	9472.6	9555.5	9635.7	9676.5	9695.5	9623.4
67.5°	6161.0	6699.3	7270.2	8069.6	8270.8	8526.4	8594.4	8635.2	8654.1	8650.1	8588.9
70°	4607.1	5058.5	5693.3	6606.8	6873.3	7123.5	7278.4	7345.0	7366.7	7360.0	7268.9
72.5°	3216.4	3481.5	4004.9	5021.8	5384.7	5705.5	5897.2	5996.4	6016.8	5976.1	5891.8
75°	2701.2	2714.8	2833.0	3389.0	3728.9	4071.5	4287.6	4350.2	4309.4	4185.7	3970.9
77.5°	2411.6	2441.6	2441.6	2524.5	2591.1	2686.3	2706.6	2554.3	2377.7	2149.3	1964.4
80°	2022.9	2127.5	2200.9	2262.1	2268.9	2249.9	2199.5	2113.9	1978.0	1803.9	1610.9
82.5°	1229.0	1435.6	1519.9	1835.2	1990.2	2094.9	2086.8	1972.5	1869.2	1688.4	1523.9
85°	310.0	334.4	363.0	471.7	528.8	645.7	719.1	753.1	765.3	702.9	636.2
87.5°	29.9	20.4	34.0	25.8	36.7	27.2	36.7	34.0	42.1	44.8	49.0
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9
2.5°	316.8	315.4	314.0	312.7	311.3	310.0	307.3	307.3	304.5	303.1	301.8
5°	352.1	349.4	348.0	345.3	341.2	338.5	334.4	329.0	324.9	323.5	320.8
7.5°	397.0	390.1	387.4	383.4	377.9	369.8	364.3	360.3	353.5	349.4	341.2
10°	447.3	440.4	432.3	424.2	416.0	406.5	399.6	394.3	383.4	377.9	368.4
12.5°	511.2	498.9	489.4	478.6	467.7	456.8	448.6	432.3	422.8	410.5	402.4
15°	576.4	565.5	554.7	541.0	524.7	507.0	498.9	483.9	471.7	452.7	441.8
17.5°	655.2	634.8	618.6	602.2	587.3	570.9	554.7	531.6	513.9	497.5	475.8
20°	732.7	708.3	690.6	668.8	647.1	621.3	602.2	585.9	561.4	539.7	516.6
22.5°	815.6	791.2	762.6	740.9	711.0	690.6	664.8	637.6	613.1	584.6	556.0
25°	916.3	890.4	857.8	829.2	795.2	766.7	735.5	704.2	674.3	641.7	604.9
27.5°	1040.0	1012.8	977.4	943.4	898.6	863.3	833.4	791.2	753.1	712.3	670.2
30°	1196.3	1166.4	1122.9	1073.9	1029.1	989.6	947.5	891.8	849.6	800.7	746.4
32.5°	1400.3	1364.8	1306.4	1260.2	1204.4	1152.8	1094.3	1038.6	978.8	914.9	852.4
35°	1657.2	1624.6	1556.5	1488.6	1427.4	1366.2	1292.9	1229.0	1144.7	1067.2	986.9
37.5°	1923.6	1865.1	1802.6	1729.2	1653.0	1579.6	1489.9	1401.6	1305.1	1220.8	1120.2
40°	2228.1	2157.4	2105.7	2026.9	1919.5	1814.8	1732.0	1621.8	1500.8	1388.0	1269.7
42.5°	2645.5	2566.6	2474.2	2354.6	2277.0	2154.7	2047.3	1916.8	1757.7	1631.3	1488.6
45°	3128.1	3020.7	2930.9	2815.4	2721.6	2569.4	2444.3	2270.3	2111.2	1945.3	1771.3
47.5°	3678.6	3545.4	3414.9	3300.7	3151.2	3001.6	2842.6	2657.7	2453.8	2271.6	2065.0
50°	4310.7	4121.8	3941.0	3794.2	3588.9	3416.3	3243.6	3035.6	2809.9	2600.6	2365.4
52.5°	5013.6	4794.7	4555.5	4329.8	4091.9	3870.3	3662.3	3423.0	3171.6	2916.0	2653.6
55°	5861.9	5697.4	5416.0	5129.2	4811.0	4514.7	4246.8	3950.5	3644.6	3308.9	3032.9
57.5°	7190.1	7109.8	6874.6	6587.9	6173.2	5812.9	5358.9	4995.9	4552.8	4090.6	3734.3
60°	8990.0	8890.7	8758.8	8526.4	8197.4	7708.0	7207.7	6643.6	5969.3	5329.0	4721.3
62.5°	9949.7	9914.3	9807.0	9646.5	9339.3	8953.2	8448.9	7828.9	7067.7	6290.1	5515.2
63°	9978.2	9933.4	9840.9	9677.8	9407.3	9033.5	8538.6	7936.3	7191.4	6398.9	5607.6
65°	9592.2	9574.5	9480.7	9302.6	9117.8	8832.2	8448.9	7930.9	7305.6	6556.6	5769.4
67.5°	8507.4	8454.3	8310.2	8255.8	8126.7	7928.2	7635.9	7279.7	6832.5	6243.9	5564.1
70°	7195.4	7116.6	6935.8	6839.3	6681.6	6556.6	6378.5	6124.2	5848.3	5437.7	4930.7
72.5°	5804.8	5641.6	5475.8	5224.3	5004.1	4781.1	4584.0	4404.6	4101.4	3935.5	3550.8
75°	3769.7	3473.3	3189.3	2808.6	2466.0	2162.9	1867.8	1718.3	1407.0	1280.6	1099.8
77.5°	1789.0	1623.1	1400.3	1227.6	1007.3	822.5	671.6	504.3	395.6	310.0	236.5
80°	1443.7	1303.7	1169.1	1012.8	846.9	675.6	517.9	387.4	274.6	190.3	134.6
82.5°	1287.4	1135.1	969.2	861.8	749.1	613.1	503.0	410.5	303.1	221.6	150.9
85°	500.3	421.4	324.9	265.1	206.6	169.9	153.6	106.0	83.0	65.2	50.3
87.5°	43.5	35.3	28.6	19.1	20.4	10.9	12.2	8.2	6.8	6.8	5.4
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9	286.9
2.5°	300.4	299.1	297.7	295.0	295.0	292.3	290.9	289.6	282.7	267.8	255.6
5°	315.4	312.7	310.0	305.9	303.1	299.1	296.4	292.3	277.3	248.8	224.3
7.5°	337.1	331.7	327.7	319.5	315.4	310.0	305.9	299.1	274.6	231.1	197.1
10°	363.0	353.5	346.6	337.1	329.0	322.2	315.4	305.9	271.8	212.1	172.6
12.5°	394.3	383.4	369.8	358.9	348.0	338.5	329.0	316.8	267.8	195.7	153.6
15°	425.5	409.2	399.6	384.7	369.8	356.1	342.6	331.7	269.2	178.1	137.3
17.5°	460.8	444.5	424.2	407.8	391.5	373.9	357.5	335.7	262.4	164.5	125.1
20°	494.8	471.7	452.7	432.3	409.2	387.4	367.0	348.0	256.9	150.9	114.2
22.5°	531.6	504.3	479.9	454.0	425.5	401.0	376.5	352.1	247.4	138.7	104.7
25°	576.4	545.1	509.8	478.6	448.6	418.7	387.4	357.5	237.9	127.8	97.9
27.5°	630.8	590.0	554.7	515.2	473.1	435.1	401.0	368.4	228.4	119.6	91.1
30°	700.1	652.5	602.2	551.9	507.0	463.5	416.0	375.2	218.8	111.4	84.3
32.5°	792.6	732.7	671.6	613.1	553.3	497.5	447.3	394.3	213.4	104.7	77.5
35°	914.9	837.4	762.6	689.2	617.2	549.2	483.9	424.2	213.4	96.5	69.3
37.5°	1030.4	940.8	845.6	754.4	668.8	590.0	512.5	440.4	202.6	89.7	62.6
40°	1155.5	1048.1	936.6	829.2	726.0	628.1	539.7	456.8	193.0	81.6	55.7
42.5°	1347.2	1211.3	1065.8	940.8	817.0	696.0	585.9	488.1	180.8	73.4	49.0
45°	1598.7	1426.0	1254.8	1102.5	944.8	796.6	666.1	545.1	178.1	66.6	42.1
47.5°	1867.8	1663.9	1462.7	1268.3	1083.5	910.8	754.4	609.0	178.1	59.9	36.7
50°	2135.6	1880.1	1665.3	1439.6	1231.7	1027.7	841.5	675.6	179.5	54.4	29.9
52.5°	2377.7	2104.4	1863.8	1602.8	1373.0	1136.5	933.9	740.9	176.7	47.6	24.4
55°	2713.4	2392.6	2113.9	1825.7	1556.5	1290.1	1060.4	838.7	178.1	42.1	20.4
57.5°	3332.0	2955.4	2619.6	2241.7	1931.7	1587.8	1309.1	1040.0	194.4	35.3	14.9
60°	4219.7	3730.3	3258.6	2797.7	2403.5	1994.3	1632.6	1316.0	228.4	28.6	10.9
62.5°	4816.4	4176.2	3613.4	3105.0	2646.8	2218.6	1824.3	1464.1	251.5	23.1	6.8
63°	4877.6	4215.6	3650.1	3125.4	2657.7	2229.5	1832.5	1475.0	252.9	21.7	6.8
65°	4993.2	4283.6	3670.4	3129.4	2646.8	2214.6	1827.1	1473.6	255.6	17.7	5.4
67.5°	4861.4	4178.9	3552.2	3012.5	2551.6	2126.1	1759.1	1419.2	254.2	12.2	4.0
70°	4347.5	3782.0	3231.4	2728.4	2309.7	1925.0	1601.4	1294.2	233.8	8.2	2.7
72.5°	3192.0	2807.2	2380.4	2017.4	1740.0	1445.1	1233.0	972.0	180.8	5.4	1.3
75°	946.1	861.8	724.6	639.0	564.2	466.3	414.7	323.5	92.5	2.7	0.0
77.5°	189.0	171.3	153.6	140.0	131.8	112.8	107.4	88.3	38.1	1.3	0.0
80°	99.2	81.6	69.3	61.2	53.0	43.5	36.7	29.9	6.8	0.0	0.0
82.5°	95.2	63.9	46.2	38.1	32.6	25.8	20.4	14.9	4.0	0.0	0.0
85°	35.3	27.2	20.4	16.3	13.6	12.2	9.5	8.2	0.0	0.0	0.0
87.5°	5.4	4.0	4.0	2.7	2.7	1.3	1.3	1.3	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



REPORT NUMBER: P165052

CATALOG NUMBER: VST-F05-LED-E-U-SL2-HSS

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	286.9	286.9	286.9	286.9	286.9	286.9	286.9
2.5°	243.4	232.5	227.0	220.3	220.3	218.8	221.6
5°	202.6	187.6	176.7	168.6	169.9	165.8	167.3
7.5°	171.3	156.4	146.8	141.4	140.0	138.7	138.7
10°	148.2	134.6	126.4	122.3	121.0	121.0	121.0
12.5°	131.8	118.3	111.4	108.7	108.7	107.4	107.4
15°	118.3	107.4	100.6	97.9	97.9	96.5	97.9
17.5°	107.4	96.5	91.1	88.3	88.3	87.0	87.0
20°	97.9	88.3	83.0	78.8	78.8	77.5	78.8
22.5°	89.7	80.2	73.4	70.7	69.3	67.9	69.3
25°	81.6	72.1	65.2	61.2	59.9	59.9	58.4
27.5°	74.8	65.2	57.1	53.0	51.7	51.7	50.3
30°	67.9	57.1	49.0	44.8	43.5	43.5	43.5
32.5°	61.2	49.0	42.1	38.1	36.7	36.7	36.7
35°	54.4	42.1	35.3	31.3	29.9	29.9	29.9
37.5°	46.2	35.3	27.2	24.4	23.1	21.7	21.7
40°	39.5	27.2	20.4	17.7	14.9	14.9	14.9
42.5°	32.6	21.7	14.9	10.9	9.5	8.2	9.5
45°	27.2	16.3	9.5	5.4	4.0	4.0	4.0
47.5°	21.7	10.9	4.0	1.3	1.3	1.3	1.3
50°	16.3	6.8	1.3	0.0	0.0	1.3	1.3
52.5°	12.2	4.0	0.0	0.0	0.0	0.0	0.0
55°	6.8	1.3	0.0	0.0	0.0	0.0	0.0
57.5°	4.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.7	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.3	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)