

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: P165105

Luminaire Tested: **VST-E11-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165105
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-E11-LED-E-U-SL2-HSS-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(11) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (231) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 16819.3 lumens
Efficiency: N/A
Efficacy: 62.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 1.83' x L: 1' x H: 0.1')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G3

Input Watts (W): 269.7
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

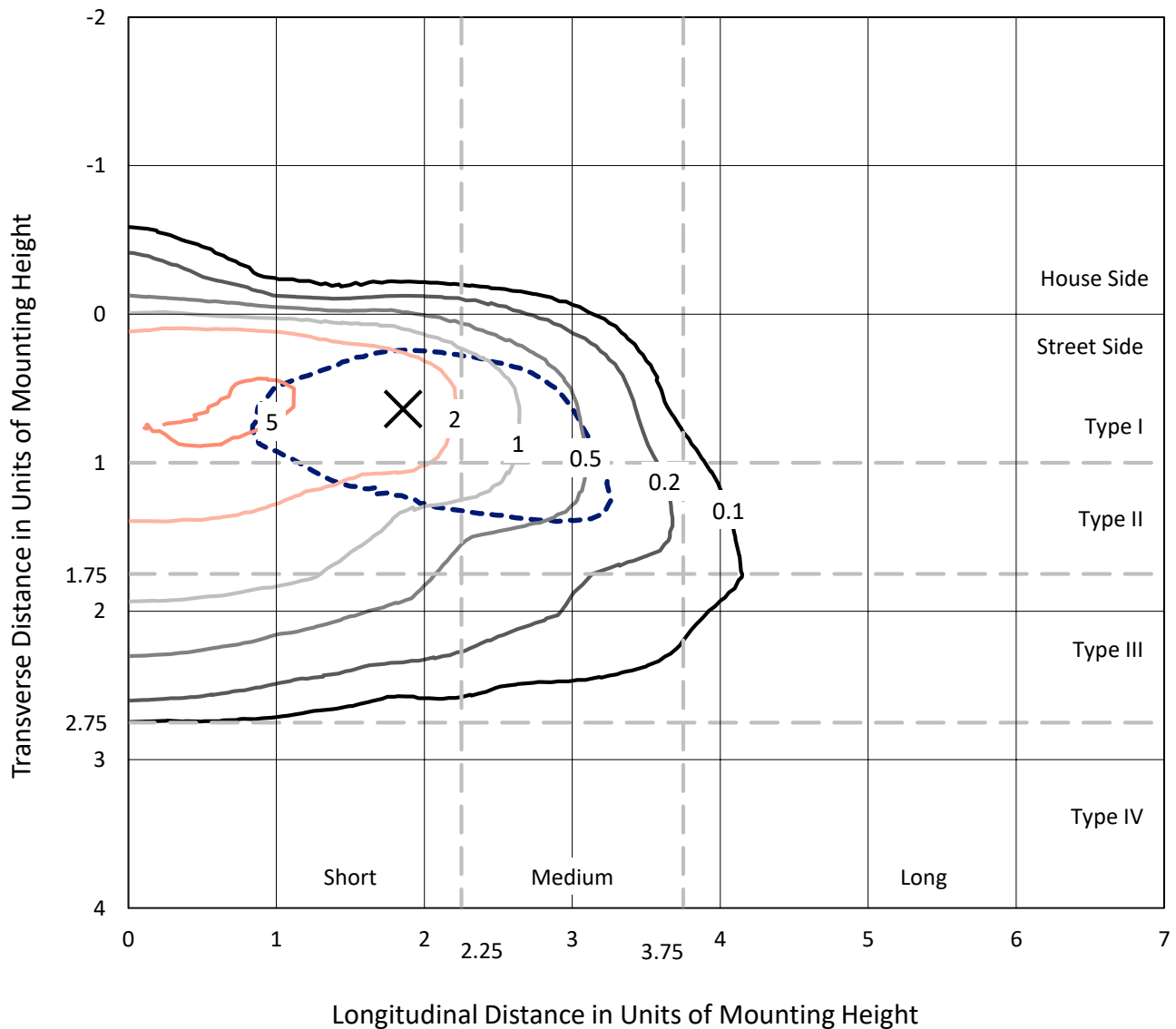


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

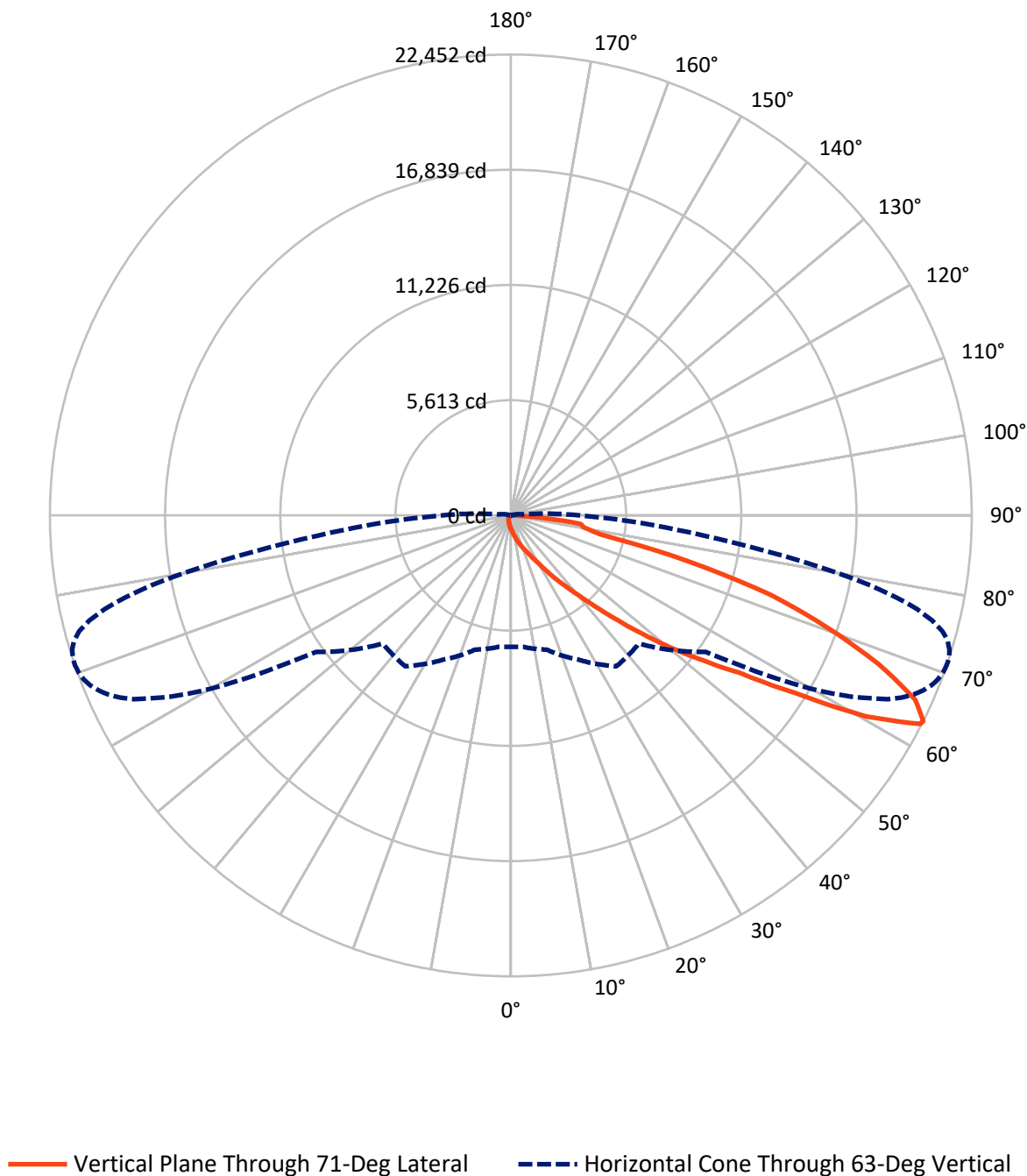


Based on 25 foot mounting height. Maximum calculated value = 5.7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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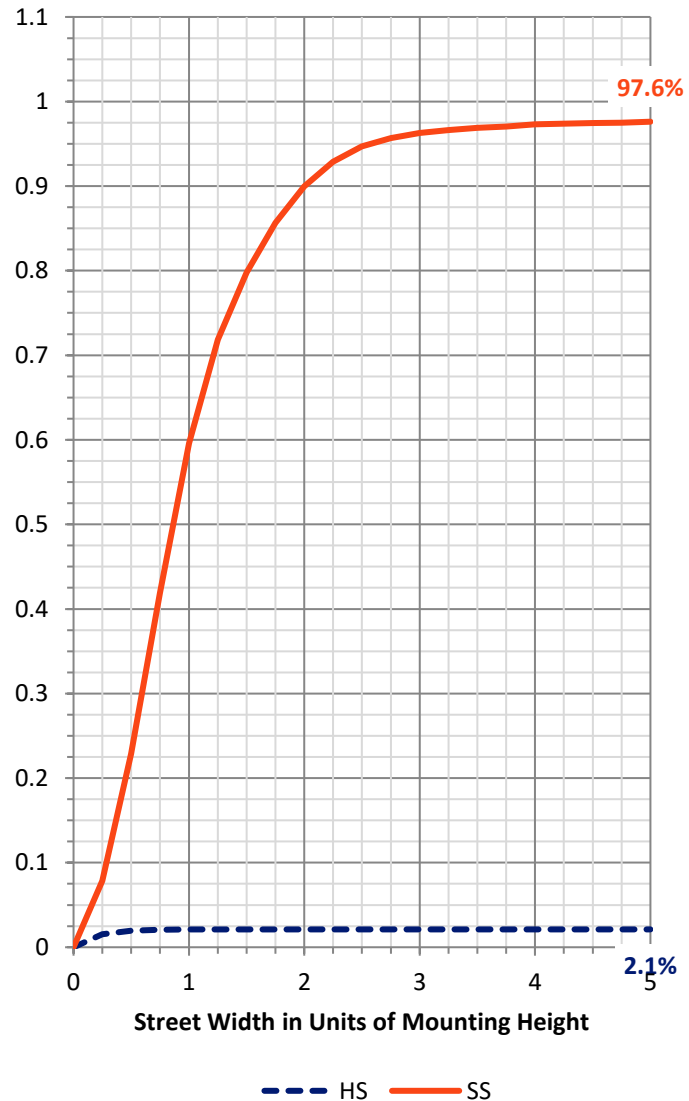
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	357.1	0.0	357.1
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	16462.2	0.0	16462.2
	% Fixture	97.9	0.0	97.9
Total	Lumens	16819.3	0.0	16819.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.3	0.4
10°-20°	276.6	1.6
20°-30°	561.7	3.3
30°-40°	1372.4	8.2
40°-50°	3069.2	18.2
50°-60°	4315.7	25.7
60°-70°	5074.9	30.2
70°-80°	1832.5	10.9
80°-90°	245.0	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°	16819.3	100.0
0°-180°	16819.3	100.0

Coefficient of Utilization



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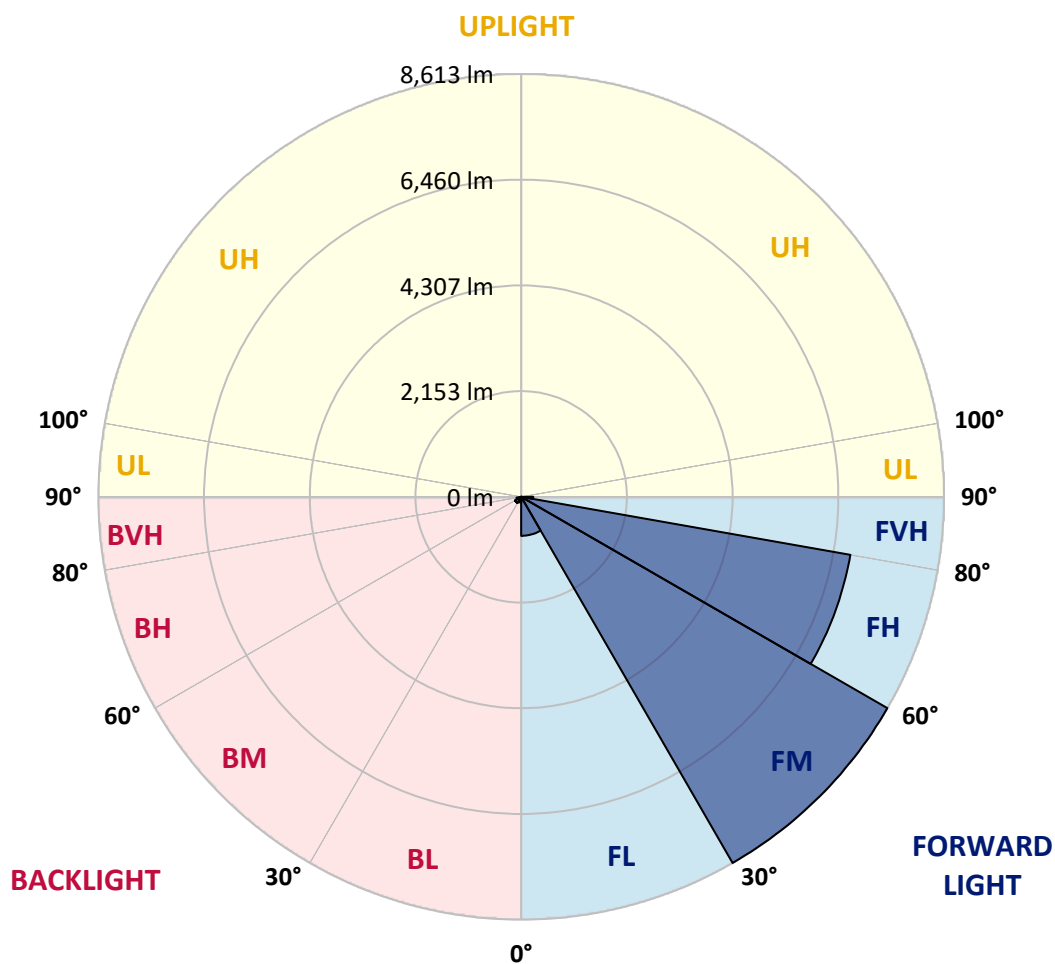
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	794.8	4.7			
FM	(30°-60°)	8613.4	51.2			
FH	(60°-80°)	6809.5	40.5			G3/7500
FVH	(80°-90°)	244.5	1.5			G3/500
BL	(0°-30°)	114.8	0.7	B1/500		
BM	(30°-60°)	143.9	0.9	B0/220		
BH	(60°-80°)	97.9	0.6	B0/110		G0/110
BVH	(80°-90°)	0.5	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2
2.5°	843.9	853.0	846.9	831.7	813.3	788.9	767.4	767.4	764.4	755.2	758.3
5°	1106.8	1110.0	1097.7	1061.0	1027.4	975.4	917.2	911.1	905.0	895.9	892.9
7.5°	1363.8	1375.9	1363.8	1323.9	1256.7	1177.2	1085.5	1076.4	1058.0	1058.0	1045.7
10°	1626.7	1626.7	1614.5	1568.6	1507.3	1394.3	1278.0	1262.8	1241.4	1235.3	1216.9
12.5°	1813.1	1813.1	1807.0	1782.7	1733.7	1632.9	1492.1	1476.9	1449.4	1440.1	1418.8
15°	1886.5	1886.5	1889.6	1911.0	1914.2	1868.3	1721.4	1709.2	1681.7	1657.2	1648.1
17.5°	1932.4	1929.4	1929.4	1960.0	2015.0	2045.6	1950.7	1938.5	1908.0	1895.8	1865.1
20°	2033.4	2027.2	2008.9	2008.9	2060.8	2167.8	2167.8	2164.8	2131.2	2121.9	2106.7
22.5°	2183.2	2177.1	2121.9	2076.1	2100.6	2235.2	2360.5	2354.4	2342.1	2329.9	2320.8
25°	2427.7	2406.4	2311.5	2177.1	2155.7	2299.4	2507.2	2522.6	2531.7	2531.7	2537.8
27.5°	2797.8	2770.3	2602.1	2351.4	2256.5	2403.2	2669.3	2699.9	2727.4	2733.6	2761.0
30°	3311.4	3262.5	3021.0	2654.1	2437.0	2556.2	2907.9	2941.5	2981.2	2993.5	3036.2
32.5°	4155.3	4127.8	3895.5	3345.0	2880.2	2855.9	3241.2	3283.9	3335.9	3357.2	3409.2
35°	5439.6	5445.8	5256.2	4760.8	4118.7	3782.3	3837.4	3874.0	3892.4	3956.6	3984.1
37.5°	6311.0	6326.2	6369.1	6173.4	5714.8	5372.2	4941.1	4981.0	4886.1	4895.2	4898.4
40°	6788.0	6836.8	7087.7	7277.3	7240.5	7041.8	6696.3	6717.6	6540.3	6500.6	6307.9
42.5°	7105.9	7170.1	7570.8	8157.8	8457.4	8637.9	8558.5	8549.2	8411.6	8359.6	8197.5
45°	7304.8	7362.9	7867.4	8732.6	9423.7	9949.6	10166.6	10191.1	10074.9	10022.9	9888.5
47.5°	7295.5	7362.9	7903.9	8946.7	9965.0	10805.7	11417.3	11447.8	11518.2	11472.3	11481.4
50°	6892.0	6956.2	7500.5	8582.8	9805.8	11197.1	12316.2	12414.1	12527.1	12603.6	12640.4
52.5°	6402.7	6448.6	6931.7	7959.1	9127.0	11035.0	12848.2	13016.4	13184.6	13328.3	13429.2
55°	6222.3	6274.2	6653.4	7506.6	8582.8	10356.2	13095.9	13343.6	13582.2	13817.6	14010.1
57.5°	6317.1	6366.0	6638.2	7292.5	8258.8	9640.8	13166.2	13551.5	13942.9	14325.1	14704.2
60°	6665.7	6717.6	6950.1	7491.2	8173.2	9228.0	12891.1	13530.2	14181.3	14847.9	15474.8
62.5°	6528.1	6549.4	6892.0	7839.9	8784.6	8876.3	11891.2	12784.1	13777.9	14805.2	15817.2
63°	6396.6	6421.1	6769.6	7745.0	8971.2	8824.3	11582.4	12524.2	13572.9	14679.7	15780.6
65°	5800.4	5803.4	6069.4	6840.0	8763.3	8916.1	10206.5	11105.4	12310.1	13637.1	15028.4
67.5°	4329.6	4308.3	4565.1	5152.2	6879.7	8919.2	8760.1	9264.8	10102.6	11279.8	12527.1
70°	1535.0	1501.4	1917.1	2730.4	4286.7	7295.5	7527.9	7561.6	7794.0	8430.0	9212.8
72.5°	498.4	507.6	611.4	999.9	1975.2	4910.6	6815.5	6711.5	6650.4	6647.3	6751.3
75°	198.7	201.8	244.5	443.4	886.8	2366.7	5968.6	6026.6	6048.1	6078.5	6112.3
77.5°	94.7	104.0	137.6	247.7	440.2	1171.1	4271.5	4763.8	5045.1	5262.3	5393.8
80°	33.6	39.7	76.5	152.8	204.8	538.1	2250.4	2715.2	3127.9	3660.1	4118.7
82.5°	0.0	0.0	15.2	107.0	113.1	217.1	923.4	1082.3	1238.3	1605.2	2060.8
85°	0.0	0.0	0.0	30.6	33.6	36.8	311.9	376.2	422.0	492.2	568.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	3.0	9.1	18.4	45.9	70.4
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2
2.5°	752.2	749.2	749.2	743.1	739.9	733.8	730.8	721.5	718.6	718.6	718.6
5°	889.8	877.5	871.4	856.2	846.9	843.9	828.7	822.6	813.3	816.4	801.0
7.5°	1042.6	1021.2	1012.1	990.6	984.7	963.1	957.0	941.8	932.7	914.3	908.2
10°	1210.8	1183.3	1168.1	1134.3	1125.2	1110.0	1091.6	1073.2	1058.0	1039.6	1030.5
12.5°	1403.5	1379.0	1366.8	1320.9	1299.6	1278.0	1253.7	1229.2	1204.7	1189.5	1168.1
15°	1629.7	1590.0	1577.7	1535.0	1498.2	1470.8	1437.1	1406.5	1388.1	1357.7	1336.1
17.5°	1852.9	1813.1	1804.0	1739.8	1700.1	1681.7	1645.1	1605.2	1571.6	1541.1	1507.3
20°	2076.1	2048.6	2024.1	1963.0	1920.3	1889.6	1840.6	1800.9	1773.4	1730.7	1687.8
22.5°	2299.4	2271.8	2253.6	2189.3	2149.6	2106.7	2064.0	2021.1	1981.4	1929.4	1880.5
25°	2528.7	2510.4	2501.1	2443.2	2406.4	2366.7	2323.8	2274.9	2225.9	2167.8	2116.0
27.5°	2767.2	2773.3	2754.9	2742.6	2702.9	2675.4	2608.2	2574.6	2537.8	2467.5	2403.2
30°	3069.8	3088.2	3082.1	3091.4	3066.8	3048.5	2996.5	2953.8	2910.9	2843.7	2770.3
32.5°	3452.1	3476.6	3488.7	3522.5	3510.2	3504.1	3488.7	3427.6	3397.0	3280.9	3250.3
35°	4042.2	4030.0	4081.9	4109.4	4097.2	4091.2	4072.8	4039.2	4002.5	3919.8	3843.5
37.5°	4809.6	4821.9	4840.3	4785.3	4748.5	4745.6	4690.4	4656.8	4604.8	4513.1	4421.4
40°	6216.1	6139.8	6054.2	5821.7	5720.9	5662.8	5500.7	5454.8	5366.1	5240.8	5146.1
42.5°	8044.7	7968.2	7711.4	7323.1	7115.2	6827.8	6696.3	6534.2	6408.9	6204.1	6094.0
45°	9861.0	9640.8	9610.1	9157.6	8900.8	8521.7	8286.3	8014.0	7729.8	7460.7	7265.0
47.5°	11392.8	11343.8	11194.2	10918.8	10680.4	10362.3	10059.7	9640.8	9347.2	8965.1	8613.4
50°	12618.9	12615.9	12560.7	12401.8	12203.1	11946.3	11680.3	11325.6	10992.3	10524.4	10148.4
52.5°	13536.3	13585.1	13603.5	13554.5	13478.2	13251.8	13117.4	12820.7	12539.4	12141.9	11735.2
55°	14208.8	14389.3	14481.0	14585.0	14563.7	14484.2	14478.1	14285.3	14157.0	13841.9	13554.5
57.5°	15040.7	15337.2	15621.5	16126.1	16144.3	16321.8	16413.6	16505.3	16529.6	16404.3	16309.6
60°	16098.5	16704.0	17242.1	18297.1	18572.3	19006.4	19287.7	19593.5	19853.2	19874.8	19868.7
62.5°	16844.5	17777.2	18645.6	20211.1	20746.2	21247.7	21623.7	21920.4	22100.7	22284.1	22369.7
63°	16866.1	17887.3	18810.7	20425.1	20987.7	21464.7	21822.6	22097.7	22287.3	22397.2	22452.4
65°	16349.3	17587.6	18688.3	20296.6	20825.6	21305.8	21492.2	21672.7	21764.4	21807.1	21645.0
67.5°	13857.3	15068.1	16352.3	18150.2	18602.7	19177.6	19330.6	19422.3	19465.0	19455.9	19318.3
70°	10362.3	11377.6	12805.5	14860.2	15459.6	16022.2	16370.7	16520.5	16569.3	16554.1	16349.3
72.5°	7234.4	7830.6	9007.8	11295.0	12111.4	12832.9	13264.1	13487.3	13533.1	13441.4	13251.8
75°	6075.6	6106.2	6372.1	7622.6	8387.1	9157.6	9643.7	9784.5	9692.8	9414.4	8931.5
77.5°	5424.2	5491.6	5491.6	5678.0	5827.9	6042.0	6087.8	5745.2	5347.9	4834.1	4418.4
80°	4549.9	4785.3	4950.4	5087.9	5103.2	5060.5	4947.2	4754.7	4448.8	4057.4	3623.3
82.5°	2764.2	3228.9	3418.5	4127.8	4476.3	4711.8	4693.6	4436.6	4204.3	3797.7	3427.6
85°	697.2	752.2	816.4	1061.0	1189.5	1452.4	1617.4	1693.9	1721.4	1580.9	1431.0
87.5°	67.2	45.9	76.5	58.1	82.6	61.1	82.6	76.5	94.7	100.8	110.1
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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CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2
2.5°	712.4	709.3	706.3	703.3	700.2	697.2	691.1	691.1	685.0	681.8	678.8
5°	791.9	785.8	782.8	776.7	767.4	761.3	752.2	739.9	730.8	727.7	721.5
7.5°	892.9	877.5	871.4	862.3	850.0	831.7	819.4	810.3	795.1	785.8	767.4
10°	1006.0	990.6	972.4	954.0	935.6	914.3	898.9	886.8	862.3	850.0	828.7
12.5°	1149.7	1122.2	1100.7	1076.4	1051.9	1027.4	1009.0	972.4	950.9	923.4	905.0
15°	1296.4	1271.9	1247.6	1216.9	1180.2	1140.4	1122.2	1088.4	1061.0	1018.3	993.7
17.5°	1473.7	1427.9	1391.3	1354.5	1320.9	1284.1	1247.6	1195.6	1155.8	1119.1	1070.2
20°	1648.1	1593.1	1553.2	1504.4	1455.5	1397.4	1354.5	1317.8	1262.8	1214.0	1162.0
22.5°	1834.5	1779.5	1715.3	1666.5	1599.2	1553.2	1495.3	1434.0	1379.0	1314.8	1250.5
25°	2060.8	2002.7	1929.4	1865.1	1788.6	1724.6	1654.2	1583.8	1516.6	1443.3	1360.6
27.5°	2339.2	2277.9	2198.4	2121.9	2021.1	1941.6	1874.4	1779.5	1693.9	1602.2	1507.3
30°	2690.7	2623.4	2525.6	2415.5	2314.7	2225.9	2131.2	2005.9	1911.0	1800.9	1678.7
32.5°	3149.5	3069.8	2938.4	2834.4	2709.0	2592.8	2461.3	2336.0	2201.6	2057.9	1917.1
35°	3727.3	3654.0	3501.0	3348.1	3210.6	3073.0	2907.9	2764.2	2574.6	2400.3	2219.8
37.5°	4326.7	4195.0	4054.5	3889.4	3718.0	3552.9	3351.1	3152.4	2935.4	2745.8	2519.5
40°	5011.4	4852.5	4736.3	4559.0	4317.4	4081.9	3895.5	3647.8	3375.6	3121.8	2855.9
42.5°	5950.2	5772.9	5565.0	5295.9	5121.6	4846.4	4604.8	4311.3	3953.5	3669.2	3348.1
45°	7035.7	6794.1	6592.3	6332.4	6121.4	5779.0	5497.7	5106.3	4748.5	4375.5	3984.1
47.5°	8274.0	7974.3	7680.8	7424.0	7087.7	6751.3	6393.6	5977.7	5519.1	5109.3	4644.5
50°	9695.7	9270.7	8864.1	8533.9	8072.2	7683.9	7295.5	6827.8	6320.1	5849.2	5320.2
52.5°	11276.6	10784.4	10246.3	9738.6	9203.5	8705.1	8237.2	7699.1	7133.6	6558.7	5968.6
55°	13184.6	12814.6	12181.8	11536.5	10820.9	10154.5	9552.0	8885.6	8197.5	7442.3	6821.6
57.5°	16172.0	15991.5	15462.5	14817.5	13884.8	13074.5	12053.3	11236.9	10240.1	9200.5	8399.3
60°	20220.3	19997.0	19700.4	19177.6	18437.6	17336.9	16211.7	14942.8	13426.2	11986.1	10619.3
62.5°	22379.0	22299.4	22058.0	21697.0	21006.1	20137.7	19003.4	17609.0	15896.8	14147.7	12405.0
63°	22443.1	22342.3	22134.3	21767.4	21158.9	20318.2	19205.0	17850.5	16175.0	14392.5	12612.7
65°	21574.9	21535.1	21324.0	20923.5	20507.8	19865.5	19003.4	17838.3	16431.8	14747.1	12976.7
67.5°	19134.9	19015.5	18691.5	18569.1	18278.7	17832.1	17174.8	16373.6	15367.8	14043.8	12514.9
70°	16184.1	16006.7	15600.1	15383.1	15028.4	14747.1	14346.6	13774.7	13154.0	12230.6	11090.2
72.5°	13056.1	12689.2	12316.2	11750.6	11255.2	10753.7	10310.3	9906.8	9224.9	8851.8	7986.6
75°	8478.8	7812.2	7173.3	6317.1	5546.6	4864.8	4201.2	3864.9	3164.7	2880.2	2473.6
77.5°	4023.8	3650.8	3149.5	2761.0	2265.6	1849.9	1510.5	1134.3	889.8	697.2	532.0
80°	3247.1	2932.2	2629.6	2277.9	1904.9	1519.6	1164.9	871.4	617.6	428.0	302.7
82.5°	2895.6	2553.1	2180.0	1938.5	1684.8	1379.0	1131.3	923.4	681.8	498.4	339.4
85°	1125.2	947.9	730.8	596.2	464.8	382.1	345.5	238.4	186.6	146.7	113.1
87.5°	97.9	79.5	64.2	42.9	45.9	24.5	27.5	18.4	15.2	15.2	12.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2	645.2
2.5°	675.7	672.7	669.6	663.4	663.4	657.5	654.3	651.4	635.9	602.3	574.9
5°	709.3	703.3	697.2	687.9	681.8	672.7	666.6	657.5	623.7	559.6	504.5
7.5°	758.3	746.1	737.0	718.6	709.3	697.2	687.9	672.7	617.6	519.7	443.4
10°	816.4	795.1	779.7	758.3	739.9	724.7	709.3	687.9	611.4	477.0	388.3
12.5°	886.8	862.3	831.7	807.1	782.8	761.3	739.9	712.4	602.3	440.2	345.5
15°	957.0	920.4	898.9	865.3	831.7	801.0	770.6	746.1	605.5	400.5	308.8
17.5°	1036.5	999.9	954.0	917.2	880.7	840.9	804.2	755.2	590.1	370.1	281.3
20°	1113.0	1061.0	1018.3	972.4	920.4	871.4	825.5	782.8	577.8	339.4	256.8
22.5°	1195.6	1134.3	1079.3	1021.2	957.0	902.0	846.9	791.9	556.5	311.9	235.4
25°	1296.4	1226.0	1146.6	1076.4	1009.0	941.8	871.4	804.2	535.1	287.4	220.2
27.5°	1418.8	1327.0	1247.6	1158.8	1064.1	978.5	902.0	828.7	513.8	269.0	204.8
30°	1574.7	1467.6	1354.5	1241.4	1140.4	1042.6	935.6	843.9	492.2	250.7	189.6
32.5°	1782.7	1648.1	1510.5	1379.0	1244.4	1119.1	1006.0	886.8	480.0	235.4	174.4
35°	2057.9	1883.5	1715.3	1550.2	1388.1	1235.3	1088.4	954.0	480.0	217.1	156.0
37.5°	2317.6	2116.0	1901.9	1696.9	1504.4	1327.0	1152.7	990.6	455.7	201.8	140.7
40°	2598.9	2357.4	2106.7	1865.1	1632.9	1412.6	1214.0	1027.4	434.1	183.4	125.3
42.5°	3030.1	2724.5	2397.3	2116.0	1837.7	1565.5	1317.8	1097.7	406.6	165.1	110.1
45°	3595.8	3207.4	2822.3	2479.7	2125.1	1791.8	1498.2	1226.0	400.5	149.8	94.7
47.5°	4201.2	3742.5	3290.0	2852.8	2437.0	2048.6	1696.9	1369.7	400.5	134.6	82.6
50°	4803.5	4228.8	3745.7	3238.0	2770.3	2311.5	1892.6	1519.6	403.7	122.4	67.2
52.5°	5347.9	4733.3	4192.1	3604.9	3088.2	2556.2	2100.6	1666.5	397.5	107.0	55.0
55°	6103.1	5381.5	4754.7	4106.5	3501.0	2901.8	2385.0	1886.5	400.5	94.7	45.9
57.5°	7494.3	6647.3	5892.1	5042.1	4344.9	3571.3	2944.5	2339.2	437.3	79.5	33.6
60°	9490.9	8390.2	7329.3	6292.6	5406.0	4485.6	3672.2	2959.9	513.8	64.2	24.5
62.5°	10833.2	9393.1	8127.3	6983.7	5953.2	4990.1	4103.3	3293.0	565.6	52.0	15.2
63°	10970.8	9481.8	8209.8	7029.6	5977.7	5014.6	4121.7	3317.5	568.7	48.8	15.2
65°	11230.7	9634.6	8255.6	7038.7	5953.2	4981.0	4109.4	3314.5	574.9	39.7	12.3
67.5°	10934.2	9399.2	7989.7	6775.8	5739.1	4782.1	3956.6	3192.2	571.7	27.5	9.1
70°	9778.4	8506.5	7268.0	6136.7	5194.9	4329.6	3602.0	2910.9	525.8	18.4	6.1
72.5°	7179.4	6314.0	5354.0	4537.6	3913.7	3250.3	2773.3	2186.2	406.6	12.3	3.0
75°	2128.1	1938.5	1629.7	1437.1	1268.9	1048.7	932.7	727.7	208.0	6.1	0.0
77.5°	425.0	385.3	345.5	314.9	296.5	253.8	241.6	198.7	85.6	3.0	0.0
80°	223.2	183.4	156.0	137.6	119.2	97.9	82.6	67.2	15.2	0.0	0.0
82.5°	214.1	143.7	104.0	85.6	73.3	58.1	45.9	33.6	9.1	0.0	0.0
85°	79.5	61.1	45.9	36.8	30.6	27.5	21.4	18.4	0.0	0.0	0.0
87.5°	12.3	9.1	9.1	6.1	6.1	3.0	3.0	3.0	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: P165105

CATALOG NUMBER: VST-E11-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	645.2	645.2	645.2	645.2	645.2	645.2	645.2
2.5°	547.4	522.9	510.6	495.4	495.4	492.2	498.4
5°	455.7	422.0	397.5	379.2	382.1	373.0	376.2
7.5°	385.3	351.7	330.1	318.1	314.9	311.9	311.9
10°	333.3	302.7	284.3	275.2	272.2	272.2	272.2
12.5°	296.5	266.1	250.7	244.5	244.5	241.6	241.6
15°	266.1	241.6	226.3	220.2	220.2	217.1	220.2
17.5°	241.6	217.1	204.8	198.7	198.7	195.7	195.7
20°	220.2	198.7	186.6	177.3	177.3	174.4	177.3
22.5°	201.8	180.5	165.1	158.9	156.0	152.8	156.0
25°	183.4	162.1	146.7	137.6	134.6	134.6	131.5
27.5°	168.2	146.7	128.5	119.2	116.2	116.2	113.1
30°	152.8	128.5	110.1	100.8	97.9	97.9	97.9
32.5°	137.6	110.1	94.7	85.6	82.6	82.6	82.6
35°	122.4	94.7	79.5	70.4	67.2	67.2	67.2
37.5°	104.0	79.5	61.1	55.0	52.0	48.8	48.8
40°	88.8	61.1	45.9	39.7	33.6	33.6	33.6
42.5°	73.3	48.8	33.6	24.5	21.4	18.4	21.4
45°	61.1	36.8	21.4	12.3	9.1	9.1	9.1
47.5°	48.8	24.5	9.1	3.0	3.0	3.0	3.0
50°	36.8	15.2	3.0	0.0	0.0	3.0	3.0
52.5°	27.5	9.1	0.0	0.0	0.0	0.0	0.0
55°	15.2	3.0	0.0	0.0	0.0	0.0	0.0
57.5°	9.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	6.1	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	3.0	0.0	0.0	0.0	0.0	0.0	0.0
63°	3.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	3.0	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)