

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: P165056

Luminaire Tested: **VST-E06-LED-E-U-SL2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165056
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-E06-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: (126) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9928.1 lumens
Efficiency: N/A
Efficacy: 66.0 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): 150.5
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

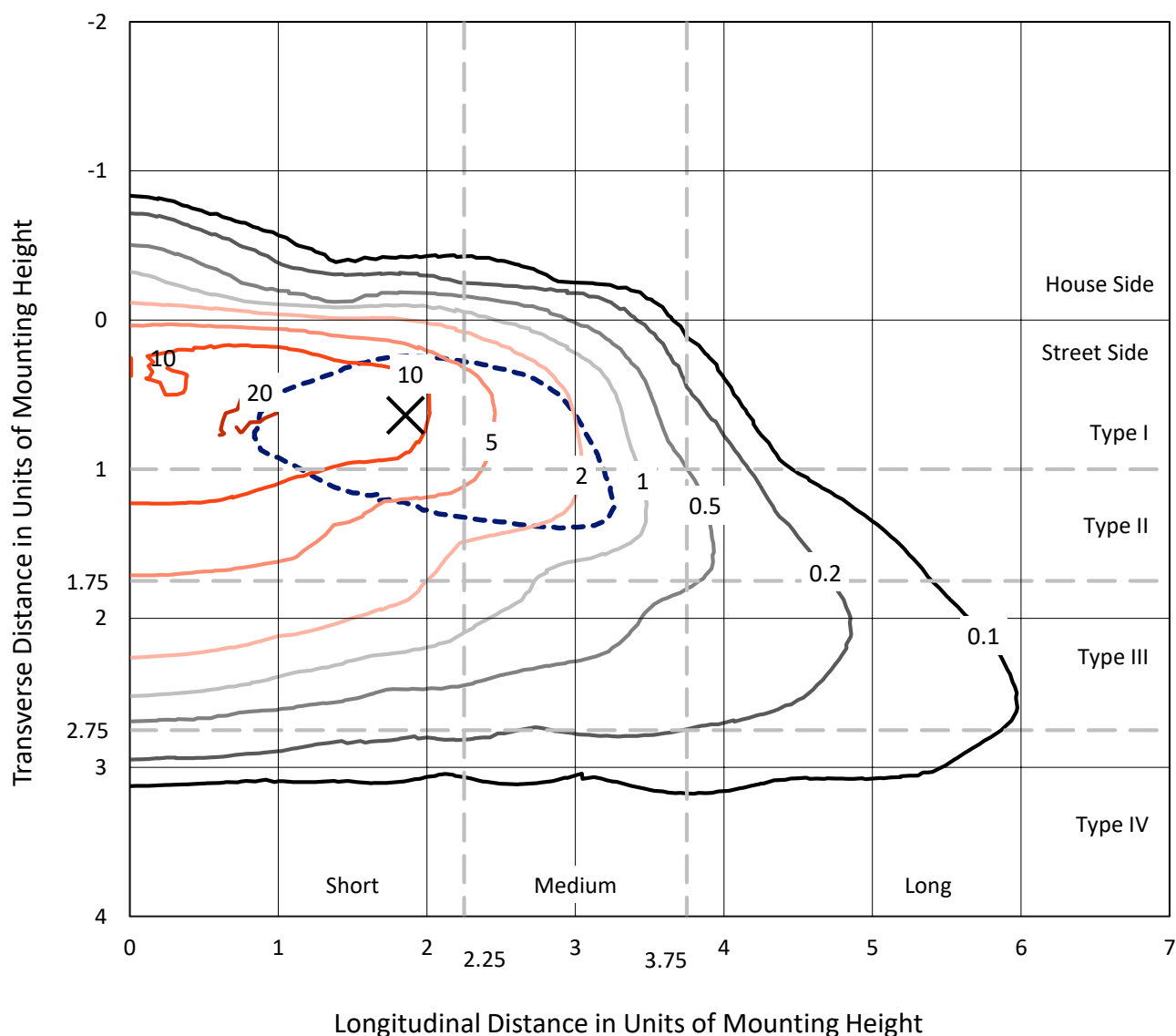


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

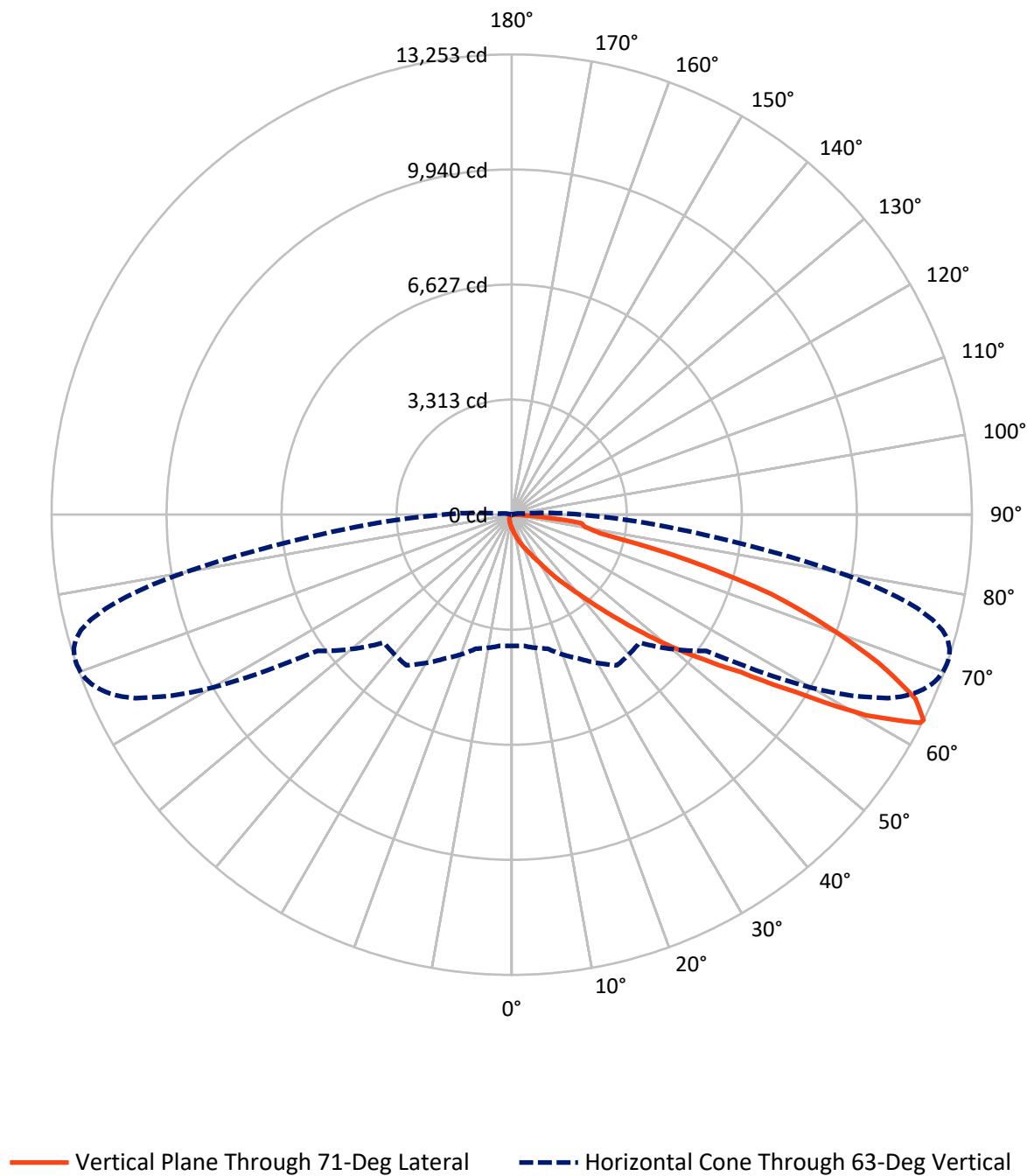


Based on 10 foot mounting height. Maximum calculated value = 20.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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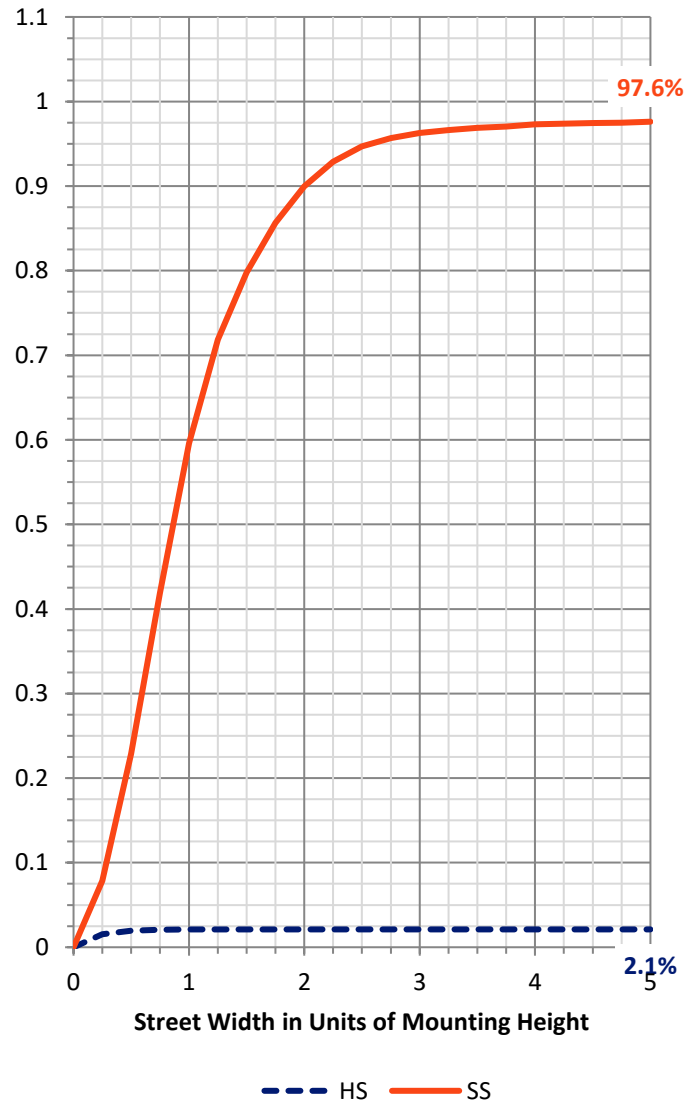
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	210.8	0.0	210.8
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	9717.3	0.0	9717.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	9928.1	0.0	9928.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	42.1	0.4
10°-20°	163.2	1.6
20°-30°	331.6	3.3
30°-40°	810.1	8.2
40°-50°	1811.7	18.2
50°-60°	2547.5	25.7
60°-70°	2995.6	30.2
70°-80°	1081.7	10.9
80°-90°	144.6	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°	9928.1	100.0
0°-180°	9928.1	100.0

Coefficient of Utilization



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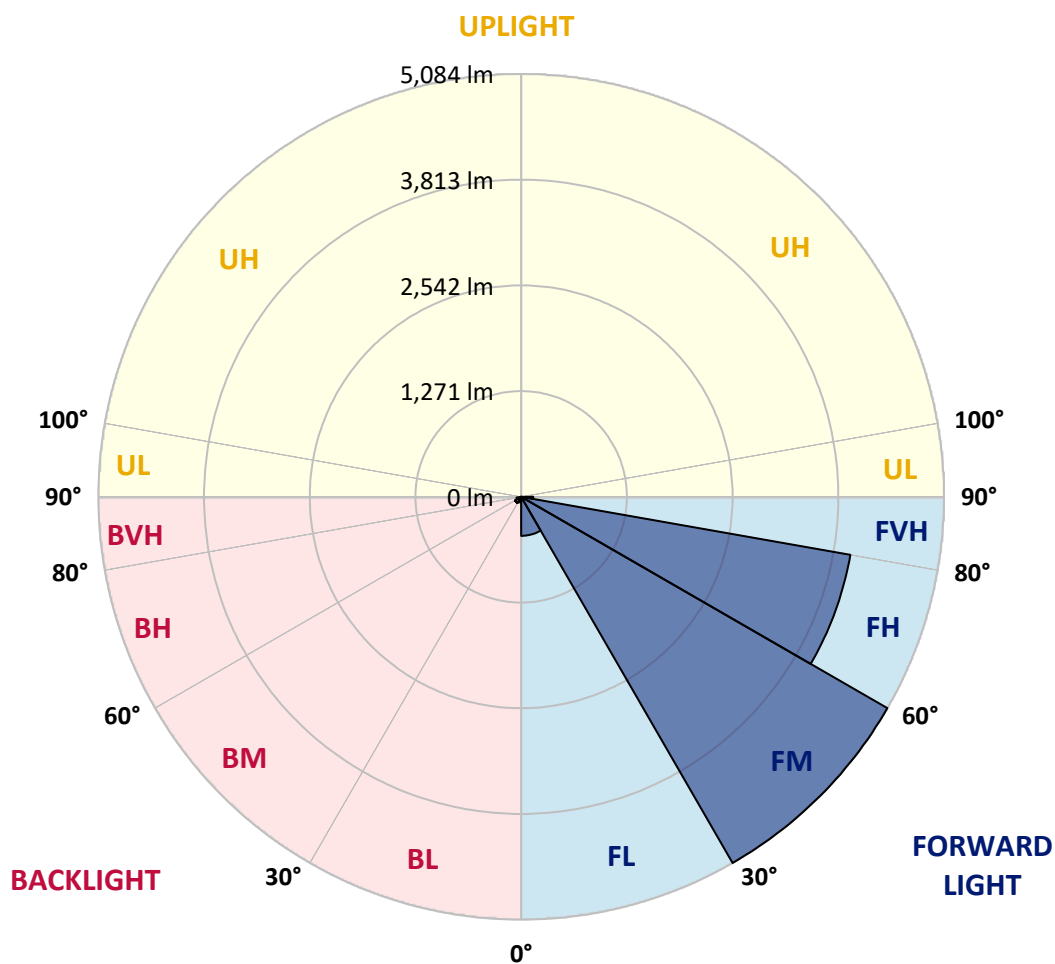
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	469.1	4.7			
FM	(30°-60°)	5084.3	51.2			
FH	(60°-80°)	4019.5	40.5			G2/5000
FVH	(80°-90°)	144.3	1.5			G2/225
BL	(0°-30°)	67.8	0.7	B0/110		
BM	(30°-60°)	84.9	0.9	B0/220		
BH	(60°-80°)	57.8	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°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	498.1	503.5	499.9	490.9	480.1	465.7	453.0	453.0	451.2	445.8	447.6
5°	653.3	655.2	648.0	626.3	606.4	575.7	541.4	537.8	534.2	528.8	527.1
7.5°	805.0	812.2	805.0	781.5	741.8	694.9	640.7	635.4	624.5	624.5	617.3
10°	960.2	960.2	953.0	925.9	889.7	823.0	754.4	745.4	732.8	729.2	718.3
12.5°	1070.3	1070.3	1066.6	1052.3	1023.4	963.8	880.8	871.8	855.6	850.1	837.5
15°	1113.6	1113.6	1115.4	1128.0	1129.9	1102.8	1016.1	1008.9	992.7	978.2	972.8
17.5°	1140.6	1138.9	1138.9	1157.0	1189.4	1207.5	1151.5	1144.2	1126.3	1119.0	1101.0
20°	1200.3	1196.6	1185.8	1185.8	1216.5	1279.6	1279.6	1277.9	1258.0	1252.5	1243.5
22.5°	1288.7	1285.1	1252.5	1225.5	1239.9	1319.4	1393.4	1389.8	1382.5	1375.3	1369.9
25°	1433.0	1420.4	1364.4	1285.1	1272.5	1357.3	1480.0	1489.1	1494.4	1494.4	1498.0
27.5°	1651.5	1635.3	1536.0	1388.0	1332.0	1418.6	1575.6	1593.7	1609.9	1613.6	1629.8
30°	1954.6	1925.8	1783.2	1566.7	1438.5	1508.9	1716.5	1736.3	1759.8	1767.0	1792.2
32.5°	2452.8	2436.6	2299.5	1974.5	1700.1	1685.8	1913.2	1938.4	1969.1	1981.7	2012.4
35°	3210.9	3214.5	3102.6	2810.2	2431.2	2232.6	2265.1	2286.7	2297.6	2335.5	2351.7
37.5°	3725.3	3734.3	3759.6	3644.0	3373.3	3171.1	2916.6	2940.2	2884.2	2889.5	2891.4
40°	4006.8	4035.7	4183.7	4295.6	4273.9	4156.7	3952.7	3965.3	3860.6	3837.2	3723.4
42.5°	4194.5	4232.4	4468.9	4815.4	4992.3	5098.8	5051.9	5046.4	4965.2	4934.5	4838.8
45°	4311.9	4346.2	4643.9	5154.7	5562.6	5873.0	6001.2	6015.6	5947.0	5916.3	5837.0
47.5°	4306.4	4346.2	4665.5	5281.1	5882.1	6378.4	6739.4	6757.4	6798.9	6771.9	6777.2
50°	4068.2	4106.1	4427.4	5066.2	5788.2	6609.4	7270.0	7327.8	7394.5	7439.7	7461.4
52.5°	3779.4	3806.5	4091.7	4698.1	5387.5	6513.8	7584.0	7683.3	7782.6	7867.5	7927.0
55°	3672.9	3703.6	3927.4	4431.0	5066.2	6113.1	7730.2	7876.4	8017.3	8156.3	8269.9
57.5°	3728.9	3757.7	3918.4	4304.6	4875.0	5690.8	7771.8	7999.2	8230.2	8455.8	8679.6
60°	3934.6	3965.3	4102.5	4421.9	4824.5	5447.1	7609.3	7986.6	8371.0	8764.4	9134.5
62.5°	3853.4	3866.0	4068.2	4627.7	5185.4	5239.5	7019.1	7546.2	8132.8	8739.2	9336.6
63°	3775.8	3790.3	3996.0	4571.7	5295.5	5208.8	6836.9	7392.8	8011.8	8665.1	9315.0
65°	3423.9	3425.6	3582.7	4037.5	5172.8	5263.0	6024.7	6555.3	7266.4	8049.7	8871.0
67.5°	2555.7	2543.1	2694.7	3041.2	4061.0	5264.8	5170.9	5468.8	5963.3	6658.2	7394.5
70°	906.1	886.2	1131.6	1611.7	2530.4	4306.4	4443.6	4463.4	4600.7	4976.0	5438.1
72.5°	294.2	299.7	360.9	590.2	1165.9	2898.6	4023.1	3961.7	3925.6	3923.8	3985.1
75°	117.3	119.1	144.3	261.7	523.5	1397.0	3523.2	3557.4	3570.1	3588.0	3608.0
77.5°	55.9	61.4	81.2	146.2	259.9	691.3	2521.4	2811.9	2978.0	3106.2	3183.8
80°	19.8	23.5	45.2	90.2	120.9	317.6	1328.4	1602.7	1846.4	2160.5	2431.2
82.5°	0.0	0.0	9.0	63.1	66.7	128.1	545.1	638.9	730.9	947.5	1216.5
85°	0.0	0.0	0.0	18.1	19.8	21.7	184.1	222.1	249.1	290.6	335.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.8	5.4	10.9	27.1	41.5
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°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	444.0	442.2	442.2	438.6	436.8	433.1	431.4	425.9	424.2	424.2	424.2
5°	525.2	518.0	514.4	505.4	499.9	498.1	489.2	485.5	480.1	481.9	472.8
7.5°	615.4	602.8	597.4	584.7	581.2	568.5	564.9	555.9	550.5	539.7	536.1
10°	714.7	698.5	689.5	669.6	664.2	655.2	644.4	633.5	624.5	613.7	608.3
12.5°	828.5	814.0	806.8	779.7	767.1	754.4	740.0	725.6	711.1	702.1	689.5
15°	962.0	938.5	931.3	906.1	884.4	868.2	848.3	830.2	819.4	801.4	788.7
17.5°	1093.7	1070.3	1064.9	1027.0	1003.5	992.7	971.1	947.5	927.7	909.7	889.7
20°	1225.5	1209.2	1194.8	1158.7	1133.5	1115.4	1086.5	1063.0	1046.8	1021.6	996.3
22.5°	1357.3	1341.0	1330.2	1292.3	1268.9	1243.5	1218.3	1193.0	1169.6	1138.9	1110.0
25°	1492.7	1481.8	1476.3	1442.1	1420.4	1397.0	1371.7	1342.8	1313.9	1279.6	1249.0
27.5°	1633.4	1637.0	1626.2	1618.9	1595.5	1579.3	1539.6	1519.7	1498.0	1456.5	1418.6
30°	1812.1	1822.9	1819.3	1824.8	1810.3	1799.4	1768.8	1743.5	1718.2	1678.6	1635.3
32.5°	2037.7	2052.2	2059.3	2079.3	2072.0	2068.4	2059.3	2023.3	2005.2	1936.7	1918.6
35°	2386.0	2378.8	2409.5	2425.7	2418.5	2415.0	2404.1	2384.3	2362.6	2313.8	2268.8
37.5°	2839.0	2846.3	2857.1	2824.7	2803.0	2801.2	2768.7	2748.8	2718.1	2664.0	2609.8
40°	3669.3	3624.2	3573.7	3436.5	3376.9	3342.6	3247.0	3219.9	3167.5	3093.5	3037.6
42.5°	4748.6	4703.5	4551.9	4322.7	4200.0	4030.3	3952.7	3857.0	3783.0	3662.1	3597.1
45°	5820.7	5690.8	5672.7	5405.6	5254.0	5030.2	4891.2	4730.5	4562.7	4403.9	4288.4
47.5°	6725.0	6696.0	6607.7	6445.1	6304.4	6116.7	5938.0	5690.8	5517.5	5291.9	5084.3
50°	7448.7	7446.9	7414.4	7320.5	7203.3	7051.7	6894.6	6685.3	6488.6	6212.4	5990.4
52.5°	7990.2	8019.0	8029.9	8000.9	7955.9	7822.3	7742.9	7567.8	7401.8	7167.1	6927.1
55°	8387.2	8493.7	8547.9	8609.2	8596.6	8549.7	8546.1	8432.3	8356.6	8170.6	8000.9
57.5°	8878.2	9053.2	9221.0	9518.9	9529.7	9634.5	9688.6	9742.7	9757.1	9683.1	9627.2
60°	9502.6	9860.0	10177.6	10800.4	10962.8	11219.1	11385.1	11565.6	11719.0	11731.7	11728.1
62.5°	9943.0	10493.5	11006.1	11930.2	12246.1	12542.1	12764.0	12939.2	13045.6	13153.9	13204.4
63°	9955.7	10558.5	11103.6	12056.6	12388.6	12670.2	12881.4	13043.8	13155.8	13220.6	13253.2
65°	9650.7	10381.6	11031.3	11980.7	12293.0	12576.4	12686.4	12793.0	12847.1	12872.3	12776.6
67.5°	8179.7	8894.4	9652.4	10713.7	10980.8	11320.1	11410.4	11464.6	11489.8	11484.4	11403.2
70°	6116.7	6716.0	7558.8	8771.7	9125.5	9457.6	9663.3	9751.7	9780.6	9771.6	9650.7
72.5°	4270.3	4622.2	5317.1	6667.2	7149.1	7575.0	7829.5	7961.3	7988.3	7934.2	7822.3
75°	3586.3	3604.4	3761.3	4499.5	4950.7	5405.6	5692.5	5775.6	5721.4	5557.2	5272.1
77.5°	3201.8	3241.6	3241.6	3351.6	3440.1	3566.5	3593.5	3391.3	3156.8	2853.5	2608.1
80°	2685.7	2824.7	2922.1	3003.3	3012.3	2987.1	2920.2	2806.6	2626.1	2395.0	2138.8
82.5°	1631.6	1906.0	2017.9	2436.6	2642.3	2781.3	2770.5	2618.8	2481.7	2241.7	2023.3
85°	411.6	444.0	481.9	626.3	702.1	857.3	954.7	999.9	1016.1	933.2	844.7
87.5°	39.7	27.1	45.2	34.3	48.8	36.1	48.8	45.2	55.9	59.5	65.0
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°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	420.5	418.7	416.9	415.2	413.3	411.6	407.9	407.9	404.3	402.5	400.7
5°	467.5	463.8	462.1	458.5	453.0	449.4	444.0	436.8	431.4	429.5	425.9
7.5°	527.1	518.0	514.4	509.0	501.8	490.9	483.7	478.3	469.3	463.8	453.0
10°	593.8	584.7	574.0	563.1	552.3	539.7	530.6	523.5	509.0	501.8	489.2
12.5°	678.7	662.4	649.7	635.4	620.9	606.4	595.6	574.0	561.3	545.1	534.2
15°	765.2	750.8	736.4	718.3	696.6	673.2	662.4	642.5	626.3	601.1	586.6
17.5°	869.9	842.8	821.2	799.5	779.7	758.0	736.4	705.7	682.3	660.6	631.7
20°	972.8	940.4	916.8	888.0	859.2	824.9	799.5	777.8	745.4	716.6	685.9
22.5°	1082.9	1050.4	1012.5	983.7	944.0	916.8	882.6	846.5	814.0	776.1	738.2
25°	1216.5	1182.2	1138.9	1101.0	1055.8	1018.0	976.4	934.9	895.2	851.9	803.2
27.5°	1380.8	1344.6	1297.7	1252.5	1193.0	1146.1	1106.4	1050.4	999.9	945.8	889.7
30°	1588.2	1548.6	1490.8	1425.8	1366.3	1313.9	1258.0	1184.0	1128.0	1063.0	990.9
32.5°	1859.1	1812.1	1734.5	1673.1	1599.1	1530.5	1452.9	1378.9	1299.6	1214.7	1131.6
35°	2200.2	2156.9	2066.5	1976.3	1895.1	1813.9	1716.5	1631.6	1519.7	1416.8	1310.3
37.5°	2553.9	2476.2	2393.3	2295.8	2194.7	2097.2	1978.1	1860.8	1732.7	1620.8	1487.2
40°	2958.2	2864.3	2795.7	2691.1	2548.5	2409.5	2299.5	2153.2	1992.6	1842.7	1685.8
42.5°	3512.3	3407.6	3284.9	3126.1	3023.2	2860.7	2718.1	2544.8	2333.6	2165.8	1976.3
45°	4153.0	4010.4	3891.3	3737.9	3613.4	3411.3	3245.2	3014.2	2803.0	2582.8	2351.7
47.5°	4884.0	4707.1	4533.8	4382.2	4183.7	3985.1	3774.0	3528.5	3257.8	3015.9	2741.6
50°	5723.2	5472.3	5232.3	5037.4	4764.8	4535.7	4306.4	4030.3	3730.6	3452.7	3140.4
52.5°	6656.4	6365.8	6048.2	5748.5	5432.6	5138.5	4862.3	4544.6	4210.8	3871.5	3523.2
55°	7782.6	7564.2	7190.7	6809.8	6387.4	5994.0	5638.4	5245.0	4838.8	4393.1	4026.7
57.5°	9546.0	9439.5	9127.2	8746.5	8195.9	7717.6	7114.8	6632.9	6044.6	5430.9	4958.0
60°	11935.7	11803.8	11628.8	11320.1	10883.4	10233.7	9569.5	8820.4	7925.2	7075.1	6268.4
62.5°	13209.9	13162.9	13020.4	12807.3	12399.5	11886.9	11217.3	10394.2	9383.6	8351.1	7322.4
63°	13247.7	13188.2	13065.4	12848.9	12489.7	11993.4	11336.4	10536.8	9547.8	8495.6	7445.0
65°	12735.2	12711.8	12587.1	12350.7	12105.3	11726.2	11217.3	10529.6	9699.3	8704.9	7659.9
67.5°	11294.9	11224.5	11033.2	10961.0	10789.6	10526.0	10138.0	9665.0	9071.3	8289.8	7387.3
70°	9553.1	9448.5	9208.4	9080.3	8871.0	8704.9	8468.5	8130.9	7764.5	7219.5	6546.3
72.5°	7706.8	7490.2	7270.0	6936.2	6643.7	6347.7	6086.0	5847.8	5445.2	5225.1	4714.3
75°	5004.9	4611.4	4234.3	3728.9	3274.0	2871.6	2479.9	2281.4	1868.1	1700.1	1460.1
77.5°	2375.2	2155.0	1859.1	1629.8	1337.4	1092.0	891.6	669.6	525.2	411.6	314.0
80°	1916.7	1730.8	1552.2	1344.6	1124.4	897.0	687.6	514.4	364.5	252.6	178.7
82.5°	1709.2	1507.0	1286.8	1144.2	994.5	814.0	667.8	545.1	402.5	294.2	200.4
85°	664.2	559.5	431.4	351.9	274.3	225.6	204.0	140.7	110.2	86.6	66.7
87.5°	57.8	46.9	37.9	25.3	27.1	14.5	16.2	10.9	9.0	9.0	7.2
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	398.8	397.1	395.2	391.6	391.6	388.1	386.2	384.5	375.4	355.5	339.3
5°	418.7	415.2	411.6	406.1	402.5	397.1	393.5	388.1	368.2	330.3	297.8
7.5°	447.6	440.4	435.0	424.2	418.7	411.6	406.1	397.1	364.5	306.8	261.7
10°	481.9	469.3	460.2	447.6	436.8	427.8	418.7	406.1	360.9	281.6	229.2
12.5°	523.5	509.0	490.9	476.4	462.1	449.4	436.8	420.5	355.5	259.9	204.0
15°	564.9	543.3	530.6	510.7	490.9	472.8	454.8	440.4	357.4	236.4	182.3
17.5°	611.8	590.2	563.1	541.4	519.8	496.4	474.7	445.8	348.3	218.4	166.0
20°	657.0	626.3	601.1	574.0	543.3	514.4	487.3	462.1	341.1	200.4	151.6
22.5°	705.7	669.6	637.1	602.8	564.9	532.4	499.9	467.5	328.5	184.1	139.0
25°	765.2	723.7	676.8	635.4	595.6	555.9	514.4	474.7	315.9	169.7	130.0
27.5°	837.5	783.3	736.4	684.0	628.1	577.6	532.4	489.2	303.3	158.8	120.9
30°	929.5	866.3	799.5	732.8	673.2	615.4	552.3	498.1	290.6	148.0	111.9
32.5°	1052.3	972.8	891.6	814.0	734.6	660.6	593.8	523.5	283.3	139.0	102.9
35°	1214.7	1111.8	1012.5	915.1	819.4	729.2	642.5	563.1	283.3	128.1	92.1
37.5°	1368.1	1249.0	1122.7	1001.7	888.0	783.3	680.4	584.7	269.0	119.1	83.1
40°	1534.1	1391.5	1243.5	1101.0	963.8	833.9	716.6	606.4	256.2	108.3	74.0
42.5°	1788.6	1608.2	1415.1	1249.0	1084.7	924.1	777.8	648.0	240.0	97.4	65.0
45°	2122.6	1893.3	1666.0	1463.7	1254.4	1057.7	884.4	723.7	236.4	88.4	55.9
47.5°	2479.9	2209.1	1942.0	1683.9	1438.5	1209.2	1001.7	808.5	236.4	79.5	48.8
50°	2835.4	2496.2	2211.0	1911.3	1635.3	1364.4	1117.2	897.0	238.3	72.2	39.7
52.5°	3156.8	2794.0	2474.5	2127.9	1822.9	1508.9	1239.9	983.7	234.7	63.1	32.4
55°	3602.5	3176.6	2806.6	2424.0	2066.5	1712.9	1407.8	1113.6	236.4	55.9	27.1
57.5°	4423.8	3923.8	3478.0	2976.2	2564.7	2108.1	1738.1	1380.8	258.1	46.9	19.8
60°	5602.3	4952.6	4326.3	3714.4	3191.1	2647.8	2167.6	1747.2	303.3	37.9	14.5
62.5°	6394.6	5544.5	4797.4	4122.4	3514.1	2945.6	2422.1	1943.8	333.8	30.7	9.0
63°	6475.8	5596.9	4846.1	4149.4	3528.5	2960.0	2432.9	1958.3	335.7	28.8	9.0
65°	6629.3	5687.1	4873.1	4154.8	3514.1	2940.2	2425.7	1956.5	339.3	23.5	7.2
67.5°	6454.2	5548.2	4716.2	3999.6	3387.7	2822.8	2335.5	1884.3	337.5	16.2	5.4
70°	5772.0	5021.2	4290.2	3622.3	3066.4	2555.7	2126.2	1718.2	310.4	10.9	3.6
72.5°	4237.9	3727.0	3160.4	2678.5	2310.2	1918.6	1637.0	1290.5	240.0	7.2	1.8
75°	1256.1	1144.2	962.0	848.3	749.0	619.0	550.5	429.5	122.8	3.6	0.0
77.5°	250.9	227.4	204.0	185.9	175.0	149.8	142.6	117.3	50.5	1.8	0.0
80°	131.7	108.3	92.1	81.2	70.4	57.8	48.8	39.7	9.0	0.0	0.0
82.5°	126.4	84.8	61.4	50.5	43.3	34.3	27.1	19.8	5.4	0.0	0.0
85°	46.9	36.1	27.1	21.7	18.1	16.2	12.6	10.9	0.0	0.0	0.0
87.5°	7.2	5.4	5.4	3.6	3.6	1.8	1.8	1.8	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-E06-LED-E-U-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	380.9	380.9	380.9	380.9	380.9	380.9	380.9
2.5°	323.1	308.6	301.4	292.4	292.4	290.6	294.2
5°	269.0	249.1	234.7	223.8	225.6	220.2	222.1
7.5°	227.4	207.6	194.9	187.7	185.9	184.1	184.1
10°	196.7	178.7	167.8	162.4	160.7	160.7	160.7
12.5°	175.0	157.1	148.0	144.3	144.3	142.6	142.6
15°	157.1	142.6	133.6	130.0	130.0	128.1	130.0
17.5°	142.6	128.1	120.9	117.3	117.3	115.5	115.5
20°	130.0	117.3	110.2	104.7	104.7	102.9	104.7
22.5°	119.1	106.5	97.4	93.8	92.1	90.2	92.1
25°	108.3	95.7	86.6	81.2	79.5	79.5	77.6
27.5°	99.3	86.6	75.8	70.4	68.6	68.6	66.7
30°	90.2	75.8	65.0	59.5	57.8	57.8	57.8
32.5°	81.2	65.0	55.9	50.5	48.8	48.8	48.8
35°	72.2	55.9	46.9	41.5	39.7	39.7	39.7
37.5°	61.4	46.9	36.1	32.4	30.7	28.8	28.8
40°	52.4	36.1	27.1	23.5	19.8	19.8	19.8
42.5°	43.3	28.8	19.8	14.5	12.6	10.9	12.6
45°	36.1	21.7	12.6	7.2	5.4	5.4	5.4
47.5°	28.8	14.5	5.4	1.8	1.8	1.8	1.8
50°	21.7	9.0	1.8	0.0	0.0	1.8	1.8
52.5°	16.2	5.4	0.0	0.0	0.0	0.0	0.0
55°	9.0	1.8	0.0	0.0	0.0	0.0	0.0
57.5°	5.4	0.0	0.0	0.0	0.0	0.0	0.0
60°	3.6	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.8	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.8	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)