

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: P165045

Luminaire Tested: **VST-E05-LED-E-U-SL2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P165045
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-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7645.1 lumens
Efficiency: N/A
Efficacy: 60.1 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): 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

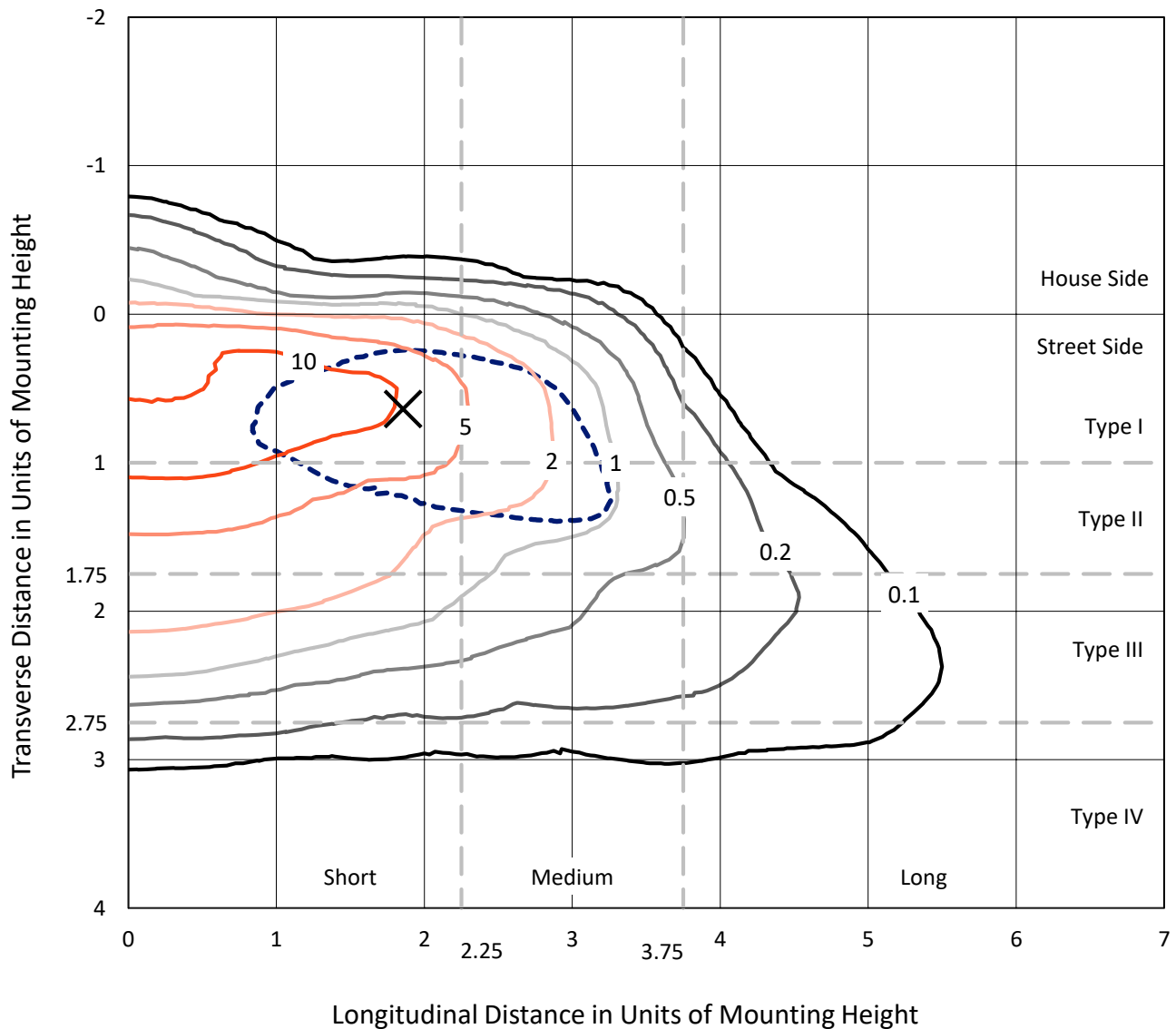


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

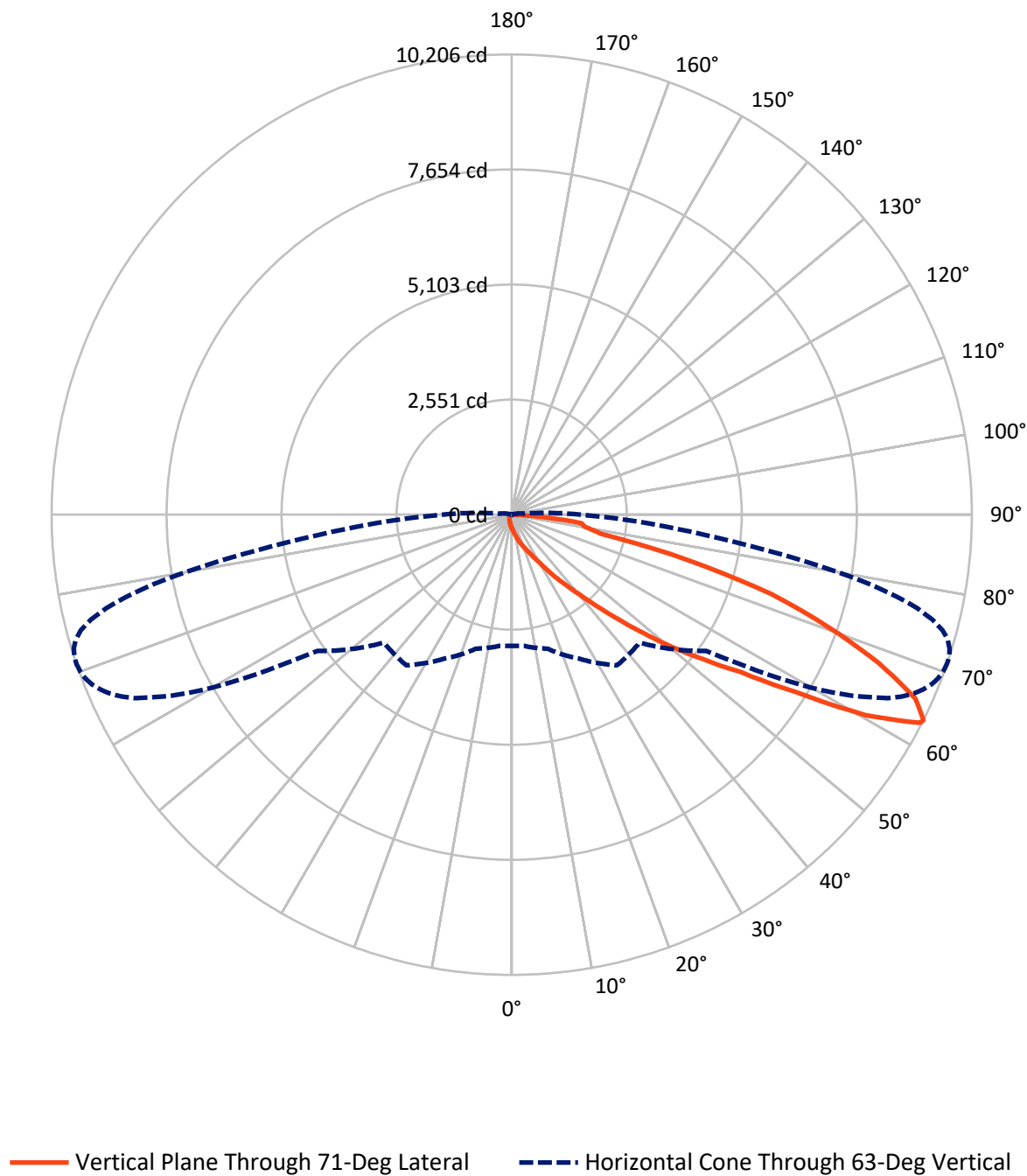


Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	162.3	0.0	162.3
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7482.8	0.0	7482.8
	% Fixture	97.9	0.0	97.9
Total	Lumens	7645.1	0.0	7645.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.4	0.4
10°-20°	125.7	1.6
20°-30°	255.3	3.3
30°-40°	623.8	8.2
40°-50°	1395.1	18.2
50°-60°	1961.7	25.7
60°-70°	2306.8	30.2
70°-80°	833.0	10.9
80°-90°	111.4	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°	7645.1	100.0
0°-180°	7645.1	100.0

Coefficient of Utilization



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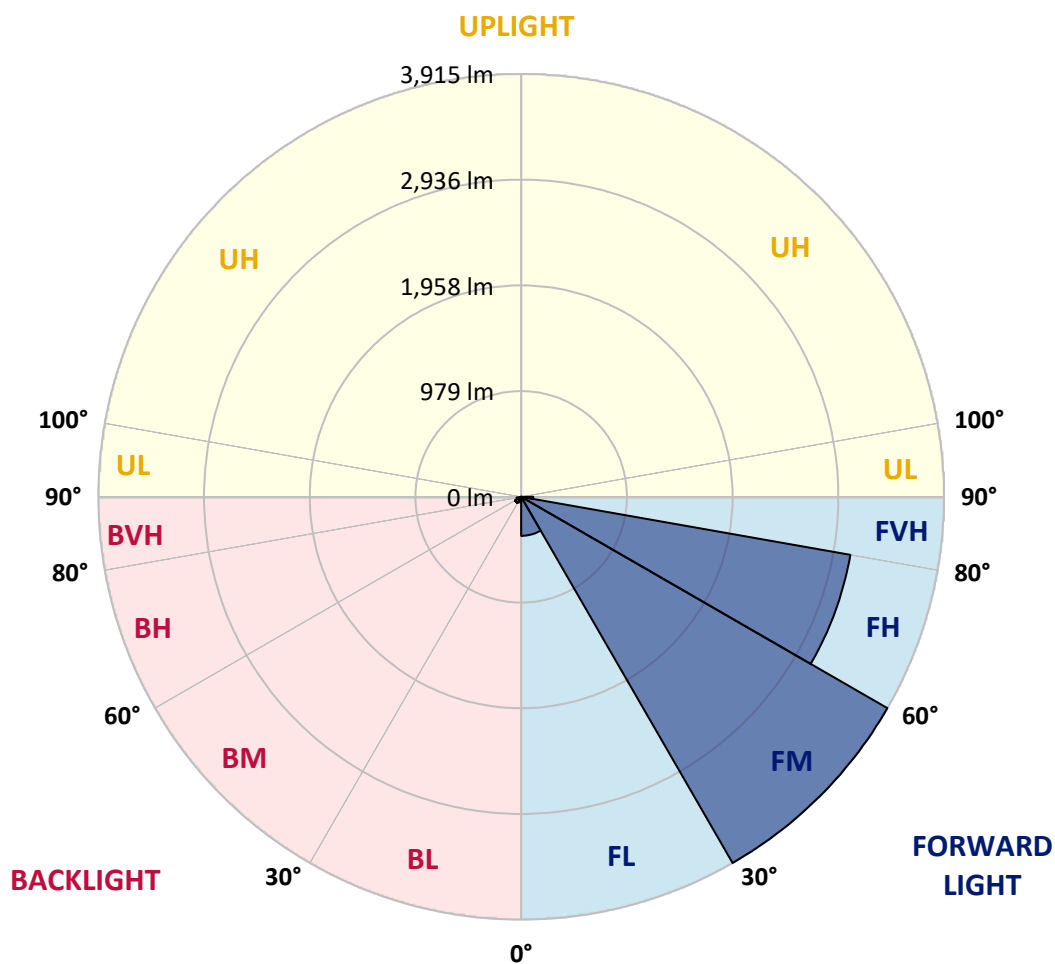
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	361.3	4.7			
FM	(30°-60°)	3915.2	51.2			
FH	(60°-80°)	3095.2	40.5			G2/5000
FVH	(80°-90°)	111.1	1.5			G2/225
BL	(0°-30°)	52.2	0.7	B0/110		
BM	(30°-60°)	65.4	0.9	B0/220		
BH	(60°-80°)	44.5	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°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3
2.5°	383.6	387.7	384.9	378.0	369.7	358.6	348.8	348.8	347.5	343.3	344.7
5°	503.1	504.5	499.0	482.3	467.0	443.3	416.9	414.1	411.4	407.2	405.9
7.5°	619.9	625.4	619.9	601.8	571.2	535.1	493.4	489.3	480.9	480.9	475.3
10°	739.4	739.4	733.9	713.0	685.2	633.8	580.9	574.0	564.3	561.5	553.2
12.5°	824.2	824.2	821.4	810.3	788.0	742.2	678.2	671.3	658.8	654.6	644.9
15°	857.5	857.5	858.9	868.6	870.1	849.2	782.5	776.9	764.4	753.3	749.1
17.5°	878.3	877.0	877.0	890.9	915.9	929.8	886.7	881.1	867.3	861.7	847.8
20°	924.3	921.5	913.1	913.1	936.7	985.4	985.4	984.0	968.7	964.5	957.6
22.5°	992.4	989.6	964.5	943.7	954.8	1016.0	1073.0	1070.2	1064.6	1059.0	1054.9
25°	1103.5	1093.8	1050.7	989.6	979.9	1045.2	1139.6	1146.6	1150.8	1150.8	1153.6
27.5°	1271.7	1259.2	1182.8	1068.8	1025.7	1092.4	1213.3	1227.2	1239.7	1242.5	1255.0
30°	1505.2	1483.0	1373.2	1206.4	1107.7	1161.9	1321.8	1337.1	1355.1	1360.7	1380.1
32.5°	1888.8	1876.3	1770.7	1520.4	1309.2	1298.1	1473.3	1492.7	1516.3	1526.0	1549.7
35°	2472.6	2475.3	2389.2	2164.0	1872.1	1719.2	1744.3	1760.9	1769.3	1798.5	1811.0
37.5°	2868.6	2875.6	2895.1	2806.1	2597.6	2441.9	2245.9	2264.1	2221.0	2225.1	2226.5
40°	3085.5	3107.7	3221.7	3307.9	3291.1	3200.8	3043.8	3053.5	2972.9	2954.8	2867.2
42.5°	3230.0	3259.2	3441.3	3708.1	3844.3	3926.3	3890.2	3886.0	3823.4	3799.8	3726.1
45°	3320.3	3346.8	3576.1	3969.4	4283.5	4522.5	4621.2	4632.3	4579.5	4555.9	4494.8
47.5°	3316.1	3346.8	3592.7	4066.7	4529.5	4911.7	5189.7	5203.5	5235.5	5214.7	5218.8
50°	3132.7	3161.9	3409.3	3901.3	4457.2	5089.6	5598.3	5642.8	5694.2	5728.9	5745.6
52.5°	2910.3	2931.2	3150.8	3617.8	4148.6	5015.9	5840.1	5916.5	5993.0	6058.3	6104.2
55°	2828.3	2851.9	3024.3	3412.1	3901.3	4707.4	5952.7	6065.3	6173.7	6280.7	6368.2
57.5°	2871.4	2893.6	3017.4	3314.8	3754.0	4382.2	5984.7	6159.8	6337.7	6511.4	6683.7
60°	3029.8	3053.5	3159.1	3405.1	3715.1	4194.6	5859.6	6150.1	6446.1	6749.1	7034.0
62.5°	2967.3	2977.0	3132.7	3563.6	3993.0	4034.7	5405.1	5811.0	6262.7	6729.6	7189.6
63°	2907.5	2918.7	3077.1	3520.5	4077.8	4011.1	5264.7	5692.8	6169.5	6672.6	7173.0
65°	2636.5	2637.9	2758.8	3109.1	3983.3	4052.8	4639.3	5047.9	5595.5	6198.7	6831.1
67.5°	1968.0	1958.3	2075.0	2341.9	3127.2	4054.2	3981.9	4211.3	4592.1	5127.2	5694.2
70°	697.7	682.5	871.4	1241.1	1948.5	3316.1	3421.8	3437.1	3542.7	3831.8	4187.6
72.5°	226.5	230.7	277.9	454.5	897.8	2232.1	3098.0	3050.7	3022.9	3021.5	3068.8
75°	90.3	91.7	111.2	201.5	403.1	1075.8	2713.0	2739.3	2749.1	2763.0	2778.3
77.5°	43.0	47.3	62.5	112.6	200.1	532.3	1941.6	2165.3	2293.2	2392.0	2451.7
80°	15.3	18.1	34.8	69.5	93.1	244.6	1022.9	1234.2	1421.8	1663.7	1872.1
82.5°	0.0	0.0	6.9	48.6	51.4	98.7	419.7	492.0	562.9	729.6	936.7
85°	0.0	0.0	0.0	13.9	15.3	16.7	141.8	171.0	191.8	223.7	258.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.4	4.1	8.4	20.8	32.0
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-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3
2.5°	341.9	340.6	340.6	337.8	336.3	333.5	332.2	328.0	326.6	326.6	326.6
5°	404.4	398.9	396.1	389.2	384.9	383.6	376.7	373.9	369.7	371.1	364.1
7.5°	473.9	464.2	460.1	450.3	447.6	437.8	435.0	428.1	423.9	415.6	412.8
10°	550.4	537.9	531.0	515.6	511.5	504.5	496.2	487.8	480.9	472.6	468.4
12.5°	638.0	626.8	621.3	600.4	590.7	580.9	569.9	558.7	547.6	540.7	531.0
15°	740.8	722.7	717.1	697.7	681.0	668.5	653.2	639.3	631.0	617.1	607.3
17.5°	842.2	824.2	820.0	790.8	772.8	764.4	747.8	729.6	714.4	700.5	685.2
20°	943.7	931.2	920.0	892.3	872.9	858.9	836.6	818.6	806.1	786.7	767.2
22.5°	1045.2	1032.6	1024.4	995.1	977.1	957.6	938.2	918.7	900.6	877.0	854.8
25°	1149.4	1141.1	1136.9	1110.5	1093.8	1075.8	1056.3	1034.1	1011.8	985.4	961.8
27.5°	1257.8	1260.6	1252.2	1246.7	1228.6	1216.1	1185.6	1170.3	1153.6	1121.6	1092.4
30°	1395.4	1403.7	1400.9	1405.2	1394.0	1385.7	1362.0	1342.6	1323.1	1292.6	1259.2
32.5°	1569.1	1580.3	1585.8	1601.1	1595.6	1592.8	1585.8	1558.0	1544.1	1491.3	1477.4
35°	1837.4	1831.8	1855.4	1867.9	1862.4	1859.6	1851.3	1836.0	1819.3	1781.7	1747.1
37.5°	2186.2	2191.8	2200.1	2175.1	2158.4	2157.1	2132.0	2116.7	2093.1	2051.4	2009.7
40°	2825.5	2790.8	2751.9	2646.2	2600.4	2574.0	2500.3	2479.5	2439.1	2382.2	2339.1
42.5°	3656.7	3621.9	3505.2	3328.7	3234.2	3103.5	3043.8	2970.1	2913.1	2820.0	2770.0
45°	4482.3	4382.2	4368.2	4162.6	4045.8	3873.5	3766.5	3642.7	3513.5	3391.2	3302.3
47.5°	5178.6	5156.3	5088.3	4963.1	4854.7	4710.1	4572.6	4382.2	4248.7	4075.0	3915.2
50°	5735.8	5734.5	5709.4	5637.2	5546.9	5430.2	5309.2	5148.0	4996.5	4783.8	4612.9
52.5°	6152.9	6175.1	6183.4	6161.1	6126.4	6023.6	5962.5	5827.6	5699.7	5519.0	5334.2
55°	6458.6	6540.6	6582.3	6629.5	6619.8	6583.7	6580.9	6493.3	6435.0	6291.8	6161.1
57.5°	6836.7	6971.4	7100.7	7330.1	7338.3	7419.0	7460.7	7502.4	7513.5	7456.5	7413.4
60°	7317.5	7592.7	7837.3	8316.9	8441.9	8639.3	8767.1	8906.1	9024.2	9034.0	9031.2
62.5°	7656.6	8080.5	8475.3	9186.8	9430.1	9658.0	9828.9	9963.8	10045.8	10129.2	10168.1
63°	7666.4	8130.6	8550.3	9284.2	9539.9	9756.7	9919.3	10044.4	10130.6	10180.6	10205.6
65°	7431.5	7994.4	8494.7	9225.7	9466.2	9684.5	9769.2	9851.2	9892.9	9912.3	9838.7
67.5°	6298.8	6849.2	7432.9	8250.1	8455.8	8717.1	8786.6	8828.3	8847.7	8843.6	8781.1
70°	4710.1	5171.6	5820.7	6754.6	7027.1	7282.8	7441.2	7509.3	7531.5	7524.6	7431.5
72.5°	3288.4	3559.4	4094.5	5134.1	5505.2	5833.2	6029.1	6130.6	6151.4	6109.7	6023.6
75°	2761.6	2775.5	2896.4	3464.8	3812.3	4162.6	4383.5	4447.5	4405.8	4279.3	4059.8
77.5°	2465.6	2496.2	2496.2	2580.9	2649.0	2746.3	2767.2	2611.5	2430.9	2197.3	2008.4
80°	2068.1	2175.1	2250.2	2312.7	2319.6	2300.2	2248.7	2161.2	2022.2	1844.3	1647.0
82.5°	1256.4	1467.7	1553.9	1876.3	2034.7	2141.7	2133.4	2016.6	1911.0	1726.2	1558.0
85°	316.9	341.9	371.1	482.3	540.7	660.2	735.2	770.0	782.5	718.6	650.5
87.5°	30.6	20.8	34.8	26.4	37.6	27.8	37.6	34.8	43.0	45.8	50.0
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°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3
2.5°	323.8	322.4	321.1	319.7	318.3	316.9	314.1	314.1	311.3	309.9	308.6
5°	360.0	357.2	355.8	353.0	348.8	346.0	341.9	336.3	332.2	330.8	328.0
7.5°	405.9	398.9	396.1	391.9	386.4	378.0	372.5	368.3	361.4	357.2	348.8
10°	457.3	450.3	442.0	433.6	425.3	415.6	408.6	403.1	391.9	386.4	376.7
12.5°	522.6	510.1	500.3	489.3	478.1	467.0	458.6	442.0	432.2	419.7	411.4
15°	589.3	578.1	567.1	553.2	536.4	518.4	510.1	494.7	482.3	462.8	451.7
17.5°	669.9	649.0	632.4	615.7	600.4	583.7	567.1	543.4	525.4	508.7	486.5
20°	749.1	724.1	706.0	683.8	661.6	635.2	615.7	599.0	574.0	551.8	528.2
22.5°	833.9	808.9	779.7	757.5	726.9	706.0	679.7	651.8	626.8	597.6	568.4
25°	936.7	910.3	877.0	847.8	813.0	783.9	751.9	719.9	689.4	656.0	618.5
27.5°	1063.3	1035.4	999.3	964.5	918.7	882.6	852.0	808.9	770.0	728.3	685.2
30°	1223.0	1192.5	1148.0	1097.9	1052.1	1011.8	968.7	911.8	868.6	818.6	763.1
32.5°	1431.6	1395.4	1335.6	1288.4	1231.4	1178.5	1118.8	1061.8	1000.7	935.4	871.4
35°	1694.2	1660.9	1591.3	1521.9	1459.3	1396.8	1321.8	1256.4	1170.3	1091.0	1009.0
37.5°	1966.7	1906.8	1842.9	1767.9	1690.0	1615.0	1523.2	1432.9	1334.3	1248.1	1145.2
40°	2277.9	2205.7	2152.9	2072.3	1962.4	1855.4	1770.7	1658.1	1534.4	1419.0	1298.1
42.5°	2704.7	2624.1	2529.5	2407.2	2328.0	2202.9	2093.1	1959.7	1797.0	1667.8	1521.9
45°	3198.1	3088.2	2996.5	2878.3	2782.5	2626.8	2499.0	2321.1	2158.4	1988.9	1811.0
47.5°	3760.9	3624.7	3491.3	3374.5	3221.7	3068.8	2906.2	2717.1	2508.7	2322.4	2111.2
50°	4407.2	4214.0	4029.1	3879.1	3669.2	3492.7	3316.1	3103.5	2872.8	2658.7	2418.3
52.5°	5125.7	4902.0	4657.4	4426.6	4183.4	3956.9	3744.2	3499.6	3242.5	2981.2	2713.0
55°	5993.0	5824.8	5537.2	5243.9	4918.6	4615.7	4341.8	4038.9	3726.1	3382.9	3100.7
57.5°	7350.9	7268.9	7028.4	6735.2	6311.3	5943.0	5478.8	5107.7	4654.6	4182.1	3817.9
60°	9191.1	9089.5	8954.7	8717.1	8380.7	7880.4	7369.0	6792.2	6102.8	5448.2	4827.0
62.5°	10172.3	10136.1	10026.4	9862.3	9548.2	9153.5	8637.9	8004.1	7225.8	6430.8	5638.6
63°	10201.4	10155.6	10061.0	9894.3	9617.7	9235.5	8729.6	8113.9	7352.3	6542.0	5733.1
65°	9806.8	9788.7	9692.7	9510.7	9321.7	9029.8	8637.9	8108.3	7469.0	6703.2	5898.5
67.5°	8697.7	8643.4	8496.1	8440.5	8308.5	8105.5	7806.7	7442.6	6985.4	6383.5	5688.6
70°	7356.4	7275.8	7091.0	6992.3	6831.1	6703.2	6521.2	6261.2	5979.1	5559.4	5041.0
72.5°	5934.6	5767.8	5598.3	5341.2	5116.0	4888.1	4686.5	4503.1	4193.1	4023.6	3630.3
75°	3854.0	3551.0	3260.6	2871.4	2521.2	2211.3	1909.6	1756.8	1438.5	1309.2	1124.4
77.5°	1829.0	1659.5	1431.6	1255.0	1029.8	840.9	686.6	515.6	404.4	316.9	241.8
80°	1476.0	1332.8	1195.3	1035.4	865.9	690.7	529.5	396.1	280.7	194.5	137.6
82.5°	1316.2	1160.5	990.9	881.1	765.8	626.8	514.2	419.7	309.9	226.5	154.3
85°	511.5	430.9	332.2	271.0	211.3	173.7	157.1	108.4	84.8	66.7	51.4
87.5°	44.5	36.1	29.2	19.5	20.8	11.1	12.5	8.4	6.9	6.9	5.6
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°	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3	293.3
2.5°	307.1	305.8	304.3	301.6	301.6	298.9	297.4	296.1	289.1	273.8	261.3
5°	322.4	319.7	316.9	312.7	309.9	305.8	303.0	298.9	283.5	254.4	229.3
7.5°	344.7	339.1	335.0	326.6	322.4	316.9	312.7	305.8	280.7	236.2	201.5
10°	371.1	361.4	354.4	344.7	336.3	329.4	322.4	312.7	277.9	216.8	176.5
12.5°	403.1	391.9	378.0	366.9	355.8	346.0	336.3	323.8	273.8	200.1	157.1
15°	435.0	418.4	408.6	393.3	378.0	364.1	350.3	339.1	275.2	182.0	140.4
17.5°	471.1	454.5	433.6	416.9	400.3	382.2	365.5	343.3	268.2	168.2	127.9
20°	505.9	482.3	462.8	442.0	418.4	396.1	375.2	355.8	262.6	154.3	116.7
22.5°	543.4	515.6	490.6	464.2	435.0	410.0	384.9	360.0	252.9	141.8	107.0
25°	589.3	557.3	521.2	489.3	458.6	428.1	396.1	365.5	243.2	130.6	100.1
27.5°	644.9	603.2	567.1	526.7	483.7	444.8	410.0	376.7	233.5	122.3	93.1
30°	715.8	667.1	615.7	564.3	518.4	473.9	425.3	383.6	223.7	113.9	86.2
32.5°	810.3	749.1	686.6	626.8	565.6	508.7	457.3	403.1	218.2	107.0	79.3
35°	935.4	856.1	779.7	704.6	631.0	561.5	494.7	433.6	218.2	98.7	70.9
37.5°	1053.5	961.8	864.5	771.3	683.8	603.2	523.9	450.3	207.1	91.7	64.0
40°	1181.3	1071.5	957.6	847.8	742.2	642.1	551.8	467.0	197.3	83.4	57.0
42.5°	1377.3	1238.4	1089.7	961.8	835.3	711.6	599.0	499.0	184.8	75.0	50.0
45°	1634.5	1457.9	1282.9	1127.1	965.9	814.5	681.0	557.3	182.0	68.1	43.0
47.5°	1909.6	1701.1	1495.5	1296.7	1107.7	931.2	771.3	622.6	182.0	61.2	37.6
50°	2183.4	1922.2	1702.6	1471.8	1259.2	1050.7	860.3	690.7	183.5	55.6	30.6
52.5°	2430.9	2151.5	1905.5	1638.6	1403.7	1161.9	954.8	757.5	180.7	48.6	25.0
55°	2774.1	2446.1	2161.2	1866.6	1591.3	1319.0	1084.1	857.5	182.0	43.0	20.8
57.5°	3406.5	3021.5	2678.2	2291.9	1974.9	1623.3	1338.4	1063.3	198.8	36.1	15.3
60°	4314.1	3813.7	3331.5	2860.3	2457.3	2038.9	1669.2	1345.4	233.5	29.2	11.1
62.5°	4924.2	4269.6	3694.2	3174.4	2706.0	2268.2	1865.1	1496.8	257.1	23.6	6.9
63°	4986.7	4309.9	3731.7	3195.3	2717.1	2279.4	1873.5	1508.0	258.5	22.2	6.9
65°	5104.9	4379.4	3752.6	3199.4	2706.0	2264.1	1867.9	1506.6	261.3	18.1	5.6
67.5°	4970.1	4272.4	3631.7	3079.9	2608.7	2173.7	1798.5	1451.0	259.9	12.5	4.1
70°	4444.7	3866.6	3303.6	2789.4	2361.3	1968.0	1637.3	1323.1	239.0	8.4	2.8
72.5°	3263.4	2870.0	2433.6	2062.5	1779.0	1477.4	1260.6	993.7	184.8	5.6	1.4
75°	967.3	881.1	740.8	653.2	576.8	476.7	423.9	330.8	94.5	2.8	0.0
77.5°	193.2	175.1	157.1	143.1	134.8	115.4	109.8	90.3	38.9	1.4	0.0
80°	101.4	83.4	70.9	62.5	54.2	44.5	37.6	30.6	6.9	0.0	0.0
82.5°	97.3	65.3	47.3	38.9	33.3	26.4	20.8	15.3	4.1	0.0	0.0
85°	36.1	27.8	20.8	16.7	13.9	12.5	9.7	8.4	0.0	0.0	0.0
87.5°	5.6	4.1	4.1	2.8	2.8	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-E05-LED-E-U-SL2-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	293.3	293.3	293.3	293.3	293.3	293.3	293.3
2.5°	248.8	237.7	232.1	225.2	225.2	223.7	226.5
5°	207.1	191.8	180.7	172.3	173.7	169.6	171.0
7.5°	175.1	159.9	150.1	144.6	143.1	141.8	141.8
10°	151.5	137.6	129.2	125.1	123.7	123.7	123.7
12.5°	134.8	120.9	113.9	111.2	111.2	109.8	109.8
15°	120.9	109.8	102.9	100.1	100.1	98.7	100.1
17.5°	109.8	98.7	93.1	90.3	90.3	89.0	89.0
20°	100.1	90.3	84.8	80.6	80.6	79.3	80.6
22.5°	91.7	82.0	75.0	72.2	70.9	69.5	70.9
25°	83.4	73.7	66.7	62.5	61.2	61.2	59.8
27.5°	76.5	66.7	58.4	54.2	52.8	52.8	51.4
30°	69.5	58.4	50.0	45.8	44.5	44.5	44.5
32.5°	62.5	50.0	43.0	38.9	37.6	37.6	37.6
35°	55.6	43.0	36.1	32.0	30.6	30.6	30.6
37.5°	47.3	36.1	27.8	25.0	23.6	22.2	22.2
40°	40.3	27.8	20.8	18.1	15.3	15.3	15.3
42.5°	33.3	22.2	15.3	11.1	9.7	8.4	9.7
45°	27.8	16.7	9.7	5.6	4.1	4.1	4.1
47.5°	22.2	11.1	4.1	1.4	1.4	1.4	1.4
50°	16.7	6.9	1.4	0.0	0.0	1.4	1.4
52.5°	12.5	4.1	0.0	0.0	0.0	0.0	0.0
55°	6.9	1.4	0.0	0.0	0.0	0.0	0.0
57.5°	4.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.8	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)