

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: P159328

Luminaire Tested: **VST-E05-LED-E-U-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159328
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33705)
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-T2-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 13025.8 lumens
Efficiency: N/A
Efficacy: 102.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B3 - U0 - G3

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



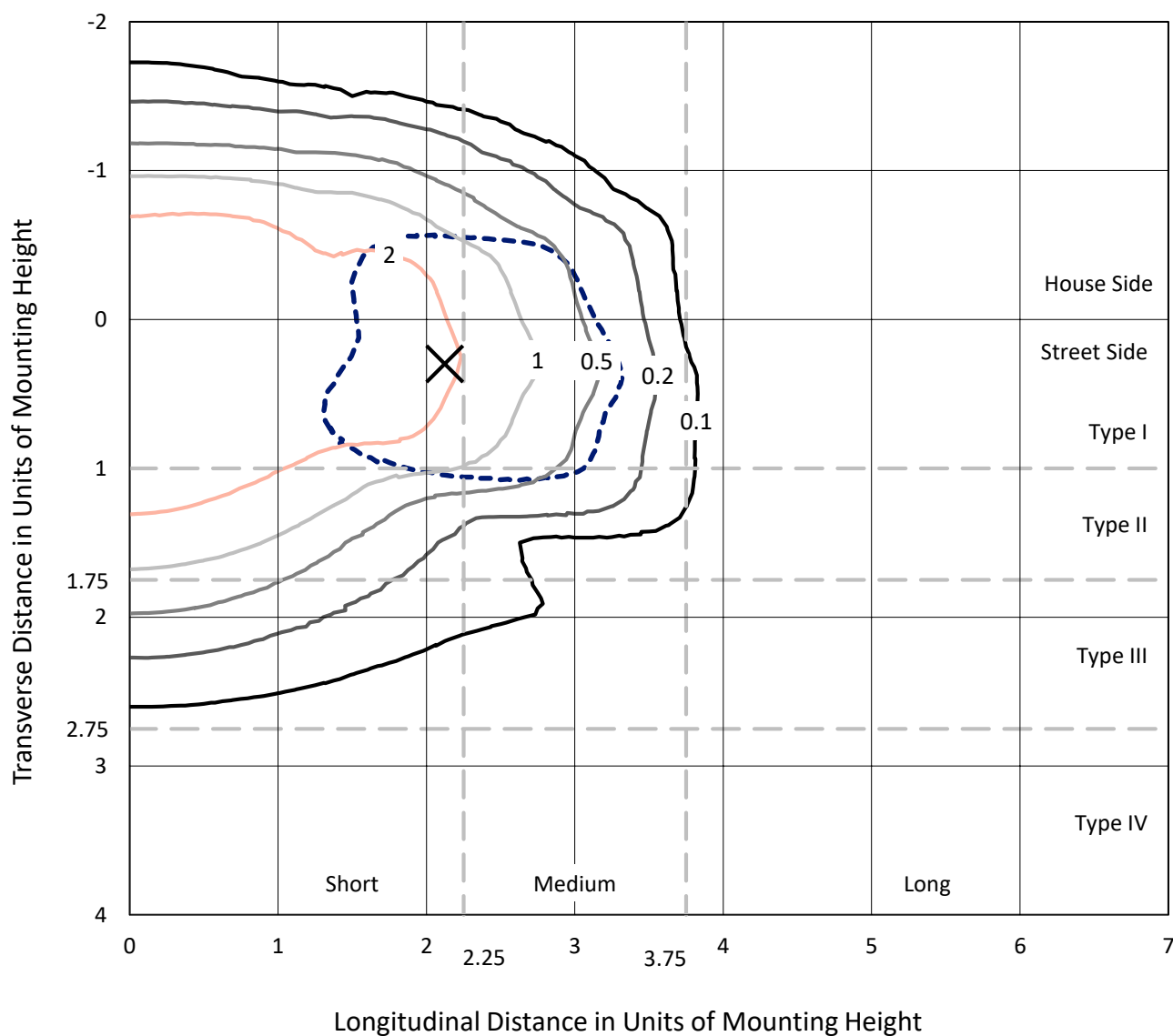
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

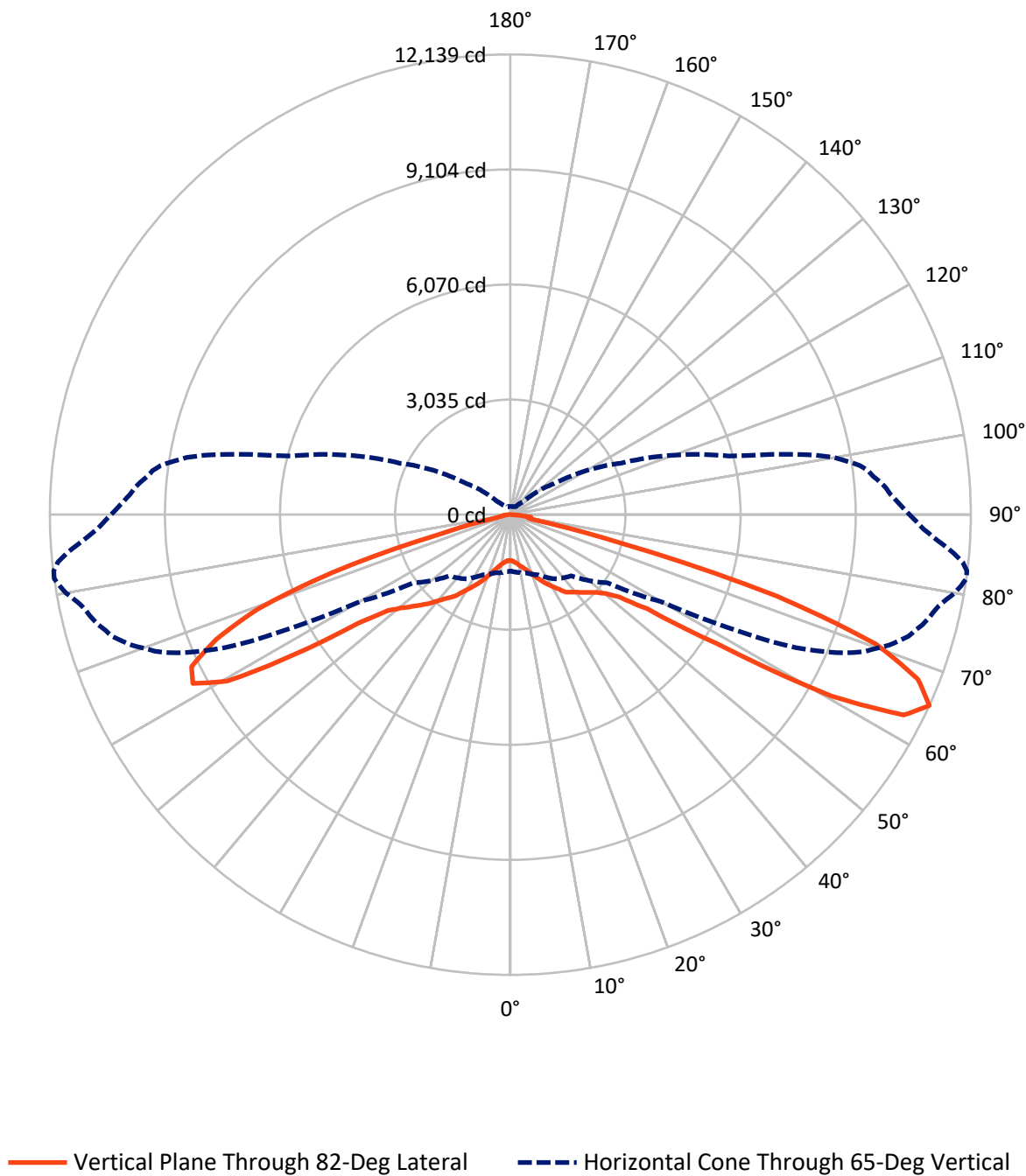


Based on 20 foot mounting height. Maximum calculated value = 3.9 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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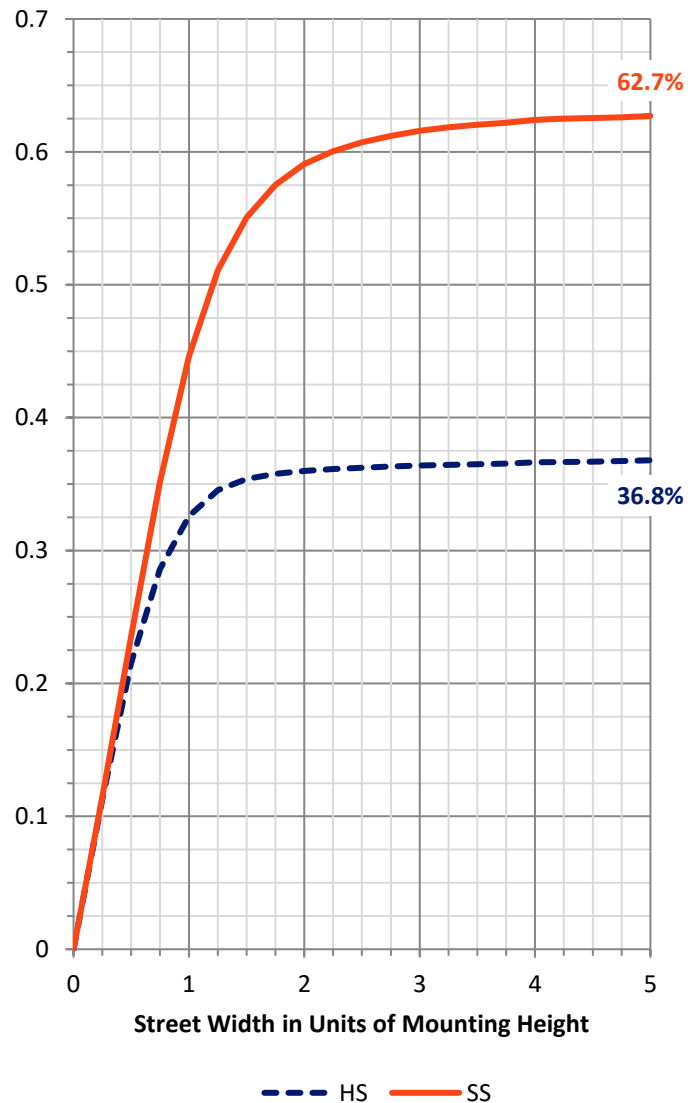
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4849.9	0.0	4849.9
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	8175.9	0.0	8175.9
	% Fixture	62.8	0.0	62.8
Total	Lumens	13025.8	0.0	13025.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	122.7	0.9
10°-20°	431.1	3.3
20°-30°	854.2	6.6
30°-40°	1464.4	11.2
40°-50°	2199.8	16.9
50°-60°	3056.3	23.5
60°-70°	3486.8	26.8
70°-80°	1201.1	9.2
80°-90°	209.4	1.6
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°	13025.8	100.0
0°-180°	13025.8	100.0

Coefficient of Utilization



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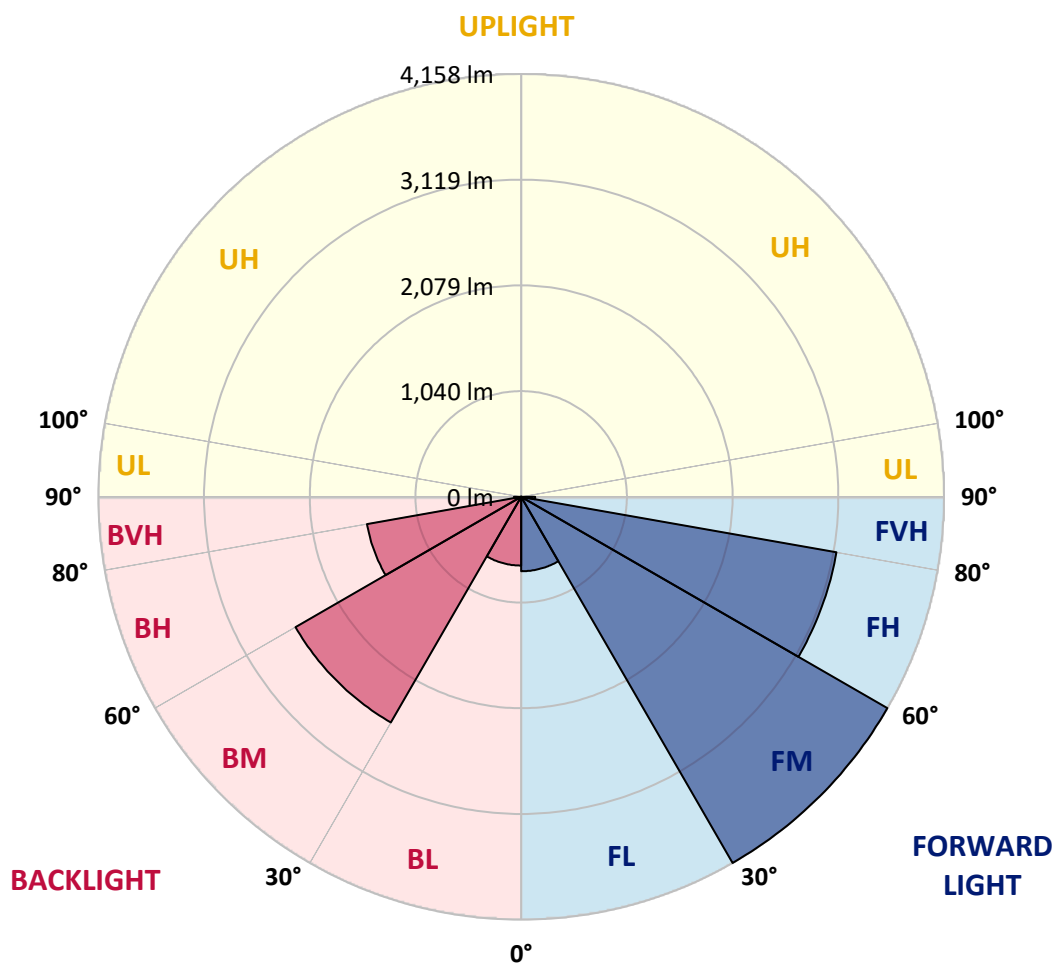
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	731.8	5.6			
FM	(30°-60°)	4158.1	31.9			
FH	(60°-80°)	3148.2	24.2			G2/5000
FVH	(80°-90°)	137.8	1.1			G2/225
BL	(0°-30°)	676.3	5.2	B2/1000		
BM	(30°-60°)	2562.4	19.7	B3/5000		
BH	(60°-80°)	1539.7	11.8	B3/2500		G3/2500
BVH	(80°-90°)	71.5	0.5			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B3-U0-G3

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0
2.5°	1277.8	1278.6	1277.8	1275.3	1274.4	1266.8	1258.4	1254.2	1253.3	1250.0	1250.8
5°	1357.1	1354.6	1351.2	1347.0	1342.8	1330.1	1315.8	1308.2	1305.7	1303.1	1299.7
7.5°	1428.0	1429.7	1428.0	1422.1	1411.2	1395.1	1376.5	1364.7	1363.9	1361.4	1358.8
10°	1519.2	1523.4	1513.3	1503.1	1488.0	1463.5	1442.4	1427.2	1424.7	1421.3	1419.6
12.5°	1617.9	1618.8	1615.4	1592.6	1567.3	1533.5	1503.1	1488.0	1484.6	1480.4	1478.7
15°	1723.4	1724.3	1705.7	1683.8	1644.9	1604.4	1562.2	1545.3	1541.1	1542.0	1535.2
17.5°	1807.0	1808.7	1790.9	1763.1	1716.7	1668.6	1623.0	1609.5	1607.0	1607.8	1604.4
20°	1843.3	1845.8	1834.8	1813.7	1769.8	1727.6	1694.7	1686.3	1685.4	1683.8	1690.5
22.5°	1841.6	1842.4	1838.2	1829.8	1803.6	1779.1	1774.9	1780.0	1779.1	1780.8	1786.7
25°	1826.4	1828.9	1828.1	1831.5	1827.2	1836.5	1855.9	1873.7	1876.2	1879.6	1890.5
27.5°	1865.2	1870.3	1864.4	1867.8	1874.5	1905.7	1945.4	1972.4	1977.5	1986.8	1996.0
30°	2017.1	2010.4	2002.8	1994.4	1998.6	2018.0	2062.7	2086.3	2088.9	2095.6	2108.3
32.5°	2242.5	2234.9	2228.1	2214.6	2211.3	2202.8	2218.0	2223.9	2223.1	2229.8	2233.2
35°	2496.5	2497.4	2495.7	2505.8	2514.2	2471.2	2418.0	2403.7	2409.6	2402.0	2403.7
37.5°	2713.4	2716.0	2760.7	2816.4	2832.4	2805.4	2689.0	2631.6	2612.2	2609.6	2590.2
40°	2954.0	2954.0	3021.5	3089.9	3134.6	3168.3	3029.9	2928.6	2887.3	2875.5	2827.4
42.5°	3218.1	3204.6	3266.2	3341.4	3424.1	3500.9	3429.1	3315.2	3256.1	3235.0	3150.6
45°	3435.0	3426.6	3457.0	3527.0	3661.2	3811.5	3821.6	3763.4	3727.9	3684.0	3606.4
47.5°	3568.4	3564.2	3581.9	3657.9	3825.8	4068.9	4204.8	4234.3	4213.2	4179.4	4104.3
50°	3620.7	3614.8	3627.5	3711.9	3900.1	4220.8	4521.3	4660.5	4670.6	4678.2	4654.6
52.5°	3602.2	3594.6	3620.7	3691.6	3887.4	4274.0	4768.5	5036.1	5080.8	5118.8	5196.5
55°	3424.1	3412.3	3483.2	3616.5	3832.6	4254.6	4949.2	5397.3	5491.8	5593.1	5765.3
57.5°	3151.5	3141.3	3243.5	3426.6	3735.5	4201.4	5070.7	5853.9	6066.6	6248.9	6737.6
60°	2889.0	2880.5	2940.5	3117.7	3420.7	3942.3	4920.5	6007.5	6364.5	6757.8	7649.9
62.5°	2419.7	2396.9	2477.1	2626.5	2818.1	3261.2	4264.7	5665.7	6216.0	6794.1	8003.6
65°	1487.1	1520.0	1589.2	1754.7	2068.6	2279.6	3132.1	4583.7	5309.5	6034.5	7603.5
67.5°	944.4	953.7	1005.2	1120.0	1363.0	1574.9	1898.1	2876.3	3435.9	4149.1	5969.5
70°	809.4	815.3	859.2	979.0	1147.0	1407.8	1436.5	1502.3	1703.2	2157.2	3509.3
72.5°	638.1	648.2	682.8	786.6	989.2	1269.4	1773.2	1187.5	1147.0	1185.0	1712.5
75°	379.8	391.6	420.3	476.9	635.5	970.6	1857.6	1381.6	1287.9	1214.5	1181.6
77.5°	200.9	192.4	211.8	244.8	326.6	517.4	1396.0	1693.0	1627.2	1539.4	1352.9
80°	99.6	103.0	108.9	115.6	146.0	210.2	698.0	1751.3	1941.2	2025.6	1860.2
82.5°	39.7	44.7	63.3	67.5	80.2	89.5	224.5	970.6	1390.1	1885.5	2461.9
85°	20.3	19.4	33.8	40.5	47.3	42.2	79.3	362.1	651.6	1015.3	1644.9
87.5°	2.5	3.4	7.6	10.1	14.3	13.5	22.8	78.5	124.9	177.2	249.0
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-T2-8030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0
2.5°	1246.6	1245.7	1245.7	1242.4	1242.4	1243.2	1240.7	1239.0	1239.0	1239.8	1236.4
5°	1297.2	1294.7	1294.7	1291.3	1287.1	1287.1	1283.7	1282.9	1281.2	1277.8	1275.3
7.5°	1356.3	1353.8	1349.5	1347.0	1345.3	1342.8	1338.6	1336.9	1333.5	1330.1	1326.8
10°	1417.1	1413.7	1412.0	1407.8	1406.1	1401.0	1398.5	1399.3	1392.6	1390.1	1390.9
12.5°	1477.8	1474.5	1468.5	1466.9	1466.0	1460.9	1458.4	1456.7	1451.7	1450.8	1448.3
15°	1531.8	1533.5	1531.0	1526.8	1523.4	1522.6	1520.0	1518.3	1515.0	1511.6	1508.2
17.5°	1601.9	1604.4	1601.1	1595.1	1595.1	1594.3	1595.1	1594.3	1588.4	1590.9	1589.2
20°	1691.4	1693.0	1684.6	1687.1	1688.8	1688.0	1690.5	1693.0	1691.4	1691.4	1693.9
22.5°	1794.3	1796.9	1791.8	1795.2	1800.2	1796.0	1803.6	1802.8	1804.5	1807.0	1807.8
25°	1899.8	1904.9	1900.7	1910.0	1906.6	1910.0	1919.2	1916.7	1920.9	1927.7	1930.2
27.5°	2005.3	2008.7	2009.5	2015.5	2021.4	2026.4	2038.2	2038.2	2041.6	2053.4	2053.4
30°	2115.9	2119.3	2122.6	2131.1	2134.5	2143.7	2155.6	2158.9	2157.2	2174.1	2179.2
32.5°	2243.3	2246.7	2252.6	2262.7	2267.0	2276.2	2276.2	2285.5	2292.3	2306.6	2307.5
35°	2413.0	2415.5	2413.0	2412.1	2418.0	2430.7	2431.5	2445.0	2450.9	2465.3	2469.5
37.5°	2582.6	2581.8	2570.8	2559.0	2559.8	2554.8	2551.4	2557.3	2559.8	2560.7	2570.0
40°	2811.3	2789.4	2772.5	2743.0	2729.5	2708.4	2695.7	2694.9	2681.4	2679.7	2682.2
42.5°	3111.0	3085.6	3046.0	2996.2	2958.2	2919.4	2890.7	2873.8	2844.2	2829.1	2816.4
45°	3529.6	3467.1	3419.9	3360.8	3287.3	3219.8	3148.9	3116.9	3060.3	3025.7	2986.9
47.5°	4041.0	3979.4	3906.8	3846.1	3749.9	3656.2	3559.1	3473.9	3375.1	3296.6	3232.5
50°	4596.4	4560.1	4507.8	4451.2	4327.1	4265.5	4143.2	4027.5	3921.2	3781.1	3658.7
52.5°	5166.1	5187.2	5175.4	5155.1	5076.6	5053.0	4947.5	4806.5	4699.3	4603.1	4390.4
55°	5868.3	5893.6	5944.2	5973.8	5964.5	6024.4	5998.2	5888.5	5845.5	5800.7	5649.7
57.5°	6942.7	7123.3	7316.6	7486.2	7525.9	7738.6	7693.0	7802.7	7880.3	7824.6	7775.7
60°	8088.0	8452.6	8780.9	9124.4	9403.7	9613.1	9889.9	10076.4	10193.7	10404.7	10421.6
62.5°	8549.6	9045.1	9462.0	9860.3	10192.0	10482.4	10732.2	10989.6	11200.6	11391.3	11528.9
65°	8296.4	8813.8	9319.3	9723.6	10042.6	10292.5	10564.2	10768.5	10976.1	11098.5	11242.8
67.5°	6897.1	7582.4	8204.4	8660.2	9096.5	9350.6	9672.1	9873.0	10093.3	10222.4	10315.3
70°	4496.8	5388.9	6238.8	6930.0	7519.1	7815.4	8203.6	8477.9	8742.9	8749.7	8904.1
72.5°	2426.5	3172.6	3884.0	4590.5	5262.3	5656.4	6039.6	6373.0	6636.3	6524.0	6677.7
75°	1351.2	1700.6	2089.7	2514.2	2923.6	3148.9	3435.0	3436.7	3572.6	3359.1	3413.1
77.5°	1299.7	1283.7	1289.6	1301.4	1321.7	1278.6	1277.8	1251.6	1211.1	1137.7	1150.4
80°	1707.4	1503.1	1356.3	1125.9	906.4	739.3	692.9	703.9	736.8	802.6	886.2
82.5°	2468.7	2296.5	2050.1	1687.1	1324.2	1021.2	838.9	744.4	740.2	806.0	932.6
85°	1797.7	1901.5	1885.5	1574.0	1298.1	1054.1	767.2	648.2	536.8	510.6	555.3
87.5°	265.0	219.4	247.3	206.8	150.2	116.5	102.1	81.9	78.5	80.2	87.8
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0
2.5°	1237.3	1233.9	1230.5	1233.1	1230.5	1229.7	1227.2	1225.5	1224.6	1224.6	1224.6
5°	1275.3	1271.1	1268.5	1267.7	1265.1	1262.6	1261.8	1257.5	1256.7	1256.7	1254.2
7.5°	1326.8	1323.4	1319.2	1316.6	1314.9	1310.7	1306.5	1305.7	1304.8	1301.4	1298.9
10°	1386.7	1381.6	1376.5	1376.5	1373.2	1372.3	1368.1	1362.2	1361.4	1356.3	1354.6
12.5°	1443.2	1441.5	1435.6	1433.9	1431.4	1428.9	1426.3	1423.8	1421.3	1417.1	1418.7
15°	1510.7	1506.5	1501.5	1502.3	1501.5	1498.1	1494.7	1492.2	1490.5	1488.8	1488.8
17.5°	1591.8	1590.1	1589.2	1585.0	1581.6	1584.2	1584.2	1584.2	1580.0	1580.8	1581.6
20°	1694.7	1696.4	1694.7	1691.4	1690.5	1693.0	1687.1	1696.4	1691.4	1688.0	1689.7
22.5°	1808.7	1814.6	1807.8	1808.7	1812.9	1814.6	1808.7	1816.3	1813.7	1808.7	1812.9
25°	1932.7	1937.0	1933.6	1932.7	1935.3	1941.2	1940.3	1939.5	1945.4	1940.3	1942.9
27.5°	2060.2	2062.7	2064.4	2066.9	2068.6	2067.8	2071.2	2071.2	2074.5	2068.6	2071.2
30°	2186.8	2186.8	2190.2	2193.5	2193.5	2193.5	2200.3	2201.1	2196.1	2197.8	2191.8
32.5°	2321.8	2322.7	2326.0	2326.0	2332.8	2333.6	2341.2	2331.1	2341.2	2332.8	2334.5
35°	2480.5	2491.5	2493.1	2501.6	2508.3	2510.9	2510.9	2511.7	2521.0	2514.2	2516.8
37.5°	2573.3	2575.9	2582.6	2586.8	2586.8	2590.2	2592.7	2590.2	2592.7	2591.9	2594.4
40°	2683.0	2680.5	2688.1	2689.8	2686.4	2690.6	2689.8	2687.3	2694.0	2689.0	2692.3
42.5°	2816.4	2802.0	2801.2	2808.0	2801.2	2804.6	2803.7	2797.8	2806.3	2808.8	2806.3
45°	2959.0	2951.4	2936.2	2936.2	2929.5	2927.0	2927.8	2927.0	2927.8	2937.9	2941.3
47.5°	3191.1	3144.7	3118.5	3094.1	3073.8	3073.0	3063.7	3068.8	3075.5	3092.4	3107.6
50°	3580.2	3473.0	3407.2	3346.4	3302.5	3287.3	3269.6	3267.9	3273.8	3293.3	3319.4
52.5°	4274.0	4125.4	3985.3	3855.4	3742.3	3655.3	3612.3	3589.5	3581.1	3600.5	3625.8
55°	5543.3	5263.1	5065.6	4934.0	4652.9	4533.9	4381.2	4311.1	4242.7	4249.5	4292.5
57.5°	7712.4	7561.3	7395.9	7165.5	6993.3	6785.7	6404.2	6191.5	6200.8	6250.6	6095.3
60°	10555.0	10402.2	10333.8	10124.5	10004.7	9921.1	9718.6	9365.8	9240.9	9217.2	8932.0
62.5°	11634.4	11670.7	11724.7	11783.8	11780.4	11816.7	11639.5	11524.7	11380.4	11193.0	10911.1
65°	11352.5	11444.5	11554.2	11712.9	11893.5	12026.9	12139.1	12125.6	11990.6	11740.8	11442.8
67.5°	10398.0	10489.1	10569.3	10782.0	11078.2	11349.1	11588.8	11751.7	11661.4	11454.6	11106.9
70°	8963.2	9029.0	9079.7	9264.5	9589.4	9920.3	10233.4	10506.8	10479.0	10228.3	9950.7
72.5°	6494.5	6654.0	6740.1	6727.5	6928.3	7298.8	7342.7	7576.5	7641.5	7371.4	6929.2
75°	3164.1	3166.7	3067.1	3034.1	3044.3	3108.4	2986.0	2993.6	2951.4	2759.9	2602.0
77.5°	1105.6	1075.2	1002.7	916.6	793.4	677.7	560.4	509.8	492.9	443.1	408.5
80°	952.9	997.6	983.2	912.4	782.4	623.7	465.9	345.2	294.6	276.8	259.9
82.5°	1082.0	1254.2	1363.9	1358.0	1179.9	886.2	552.8	317.3	226.2	198.3	182.3
85°	603.5	649.0	661.7	602.6	500.5	341.8	190.7	134.2	113.9	103.8	93.7
87.5°	96.2	87.8	86.1	75.1	70.9	65.0	57.4	54.0	49.8	47.3	47.3
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):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0
2.5°	1223.8	1222.9	1220.4	1217.9	1216.2	1215.3	1214.5	1212.8	1212.0	1211.1	1209.4
5°	1252.5	1250.8	1246.6	1242.4	1240.7	1238.1	1235.6	1233.9	1232.2	1231.4	1228.0
7.5°	1297.2	1295.5	1290.5	1287.1	1286.2	1279.5	1278.6	1276.1	1271.9	1271.1	1266.0
10°	1351.2	1350.4	1346.2	1343.6	1341.9	1338.6	1333.5	1329.3	1325.1	1325.1	1321.7
12.5°	1413.7	1410.3	1412.8	1406.9	1405.2	1401.9	1399.3	1398.5	1393.4	1389.2	1388.4
15°	1487.1	1482.9	1482.9	1481.2	1479.5	1476.1	1475.3	1476.1	1471.1	1472.8	1467.7
17.5°	1578.3	1580.0	1579.1	1579.1	1574.9	1574.9	1568.1	1576.6	1570.7	1574.9	1573.2
20°	1692.2	1693.0	1691.4	1693.9	1695.6	1694.7	1693.9	1693.0	1695.6	1699.0	1696.4
22.5°	1813.7	1813.7	1812.9	1822.2	1812.0	1819.6	1822.2	1817.1	1830.6	1828.9	1831.5
25°	1945.4	1945.4	1952.2	1959.7	1961.4	1955.5	1958.9	1954.7	1963.1	1969.9	1971.6
27.5°	2067.8	2078.7	2083.8	2078.7	2083.0	2092.3	2091.4	2091.4	2097.3	2095.6	2111.7
30°	2193.5	2200.3	2207.0	2203.7	2205.3	2217.2	2218.0	2218.9	2226.4	2237.4	2249.2
32.5°	2337.0	2343.8	2340.4	2351.4	2350.5	2364.9	2367.4	2369.9	2393.6	2389.3	2413.8
35°	2513.4	2520.2	2516.8	2528.6	2526.9	2532.0	2541.3	2551.4	2555.6	2580.1	2599.5
37.5°	2596.1	2596.1	2603.7	2617.2	2622.3	2630.7	2645.1	2657.7	2678.8	2705.0	2735.4
40°	2695.7	2698.2	2708.4	2722.7	2732.0	2751.4	2777.6	2795.3	2827.4	2856.1	2891.5
42.5°	2816.4	2827.4	2839.2	2858.6	2878.9	2909.2	2946.4	2969.2	3011.4	3048.5	3092.4
45°	2957.3	2968.3	2996.2	3031.6	3061.2	3094.9	3125.3	3179.3	3217.3	3256.1	3294.1
47.5°	3127.8	3159.9	3182.7	3224.9	3261.2	3305.9	3343.9	3394.5	3435.9	3483.2	3515.2
50°	3346.4	3386.1	3415.6	3470.5	3505.9	3555.7	3603.8	3641.8	3684.0	3730.4	3756.6
52.5°	3660.4	3700.9	3738.0	3806.4	3850.3	3884.0	3948.2	3995.5	4034.3	4068.0	4096.7
55°	4340.6	4328.8	4431.8	4564.3	4579.5	4701.9	4724.7	4764.3	4836.1	4846.2	4926.4
57.5°	6284.4	6223.6	6373.0	6567.1	6533.3	6471.7	6729.1	6745.2	6708.9	6805.9	6696.2
60°	8974.2	8867.8	8908.3	8961.5	8884.7	8848.4	8861.1	8897.4	8861.9	8823.1	8716.7
62.5°	10770.2	10606.4	10489.1	10390.4	10265.5	10175.2	10073.9	9949.0	9915.2	9773.4	9654.4
65°	11153.3	10898.5	10712.8	10526.3	10354.1	10194.6	10041.8	9934.6	9792.8	9624.9	9500.8
67.5°	10732.2	10416.5	10144.8	9873.8	9678.9	9444.3	9329.5	9154.8	8980.1	8787.6	8673.7
70°	9508.4	9179.2	8837.4	8572.4	8307.4	8017.1	7960.5	7753.7	7653.3	7390.8	7345.3
72.5°	6562.9	6343.4	6190.7	5863.2	5702.0	5553.5	5506.2	5314.6	5334.9	5047.1	5151.7
75°	2333.6	2302.4	2257.7	2072.8	2039.9	1982.5	1967.3	1953.8	2090.6	1900.7	2038.2
77.5°	400.9	398.4	375.6	364.6	385.7	372.2	375.6	368.8	408.5	414.4	405.1
80°	249.0	242.2	234.6	229.6	230.4	225.3	226.2	227.9	230.4	229.6	232.1
82.5°	170.5	164.6	161.2	157.8	162.9	164.6	168.8	173.0	179.8	184.0	189.1
85°	92.8	85.2	85.2	84.4	91.2	96.2	103.0	111.4	123.2	133.4	144.3
87.5°	47.3	45.6	46.4	48.1	54.0	58.2	66.7	74.3	84.4	95.4	105.5
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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CATALOG NUMBER: VST-E05-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0	1212.0
2.5°	1208.6	1208.6	1207.8	1207.8	1206.9	1206.1	1205.2	1202.7	1193.4	1185.0	1179.1
5°	1227.2	1224.6	1223.8	1221.3	1220.4	1218.7	1216.2	1213.7	1196.8	1181.6	1170.6
7.5°	1265.1	1261.8	1260.1	1257.5	1255.0	1251.6	1248.3	1245.7	1225.5	1207.8	1194.2
10°	1314.9	1313.2	1312.4	1309.0	1309.0	1304.0	1303.1	1297.2	1275.3	1259.2	1247.4
12.5°	1384.1	1380.8	1379.9	1375.7	1377.4	1375.7	1374.0	1370.6	1354.6	1336.0	1320.0
15°	1470.2	1470.2	1466.0	1462.6	1463.5	1461.8	1465.2	1460.9	1450.8	1433.9	1407.8
17.5°	1574.0	1572.4	1574.0	1571.5	1573.2	1574.9	1570.7	1571.5	1566.4	1545.3	1506.5
20°	1694.7	1692.2	1702.3	1698.1	1707.4	1699.0	1700.6	1703.2	1703.2	1675.3	1623.0
22.5°	1833.1	1831.5	1831.5	1839.9	1843.3	1844.1	1847.5	1850.0	1856.8	1821.3	1737.8
25°	1971.6	1977.5	1978.3	1989.3	1994.4	1994.4	1996.9	2006.2	2026.4	1977.5	1869.4
27.5°	2112.5	2126.9	2130.2	2137.8	2145.4	2153.0	2158.9	2165.7	2198.6	2145.4	2004.5
30°	2253.5	2269.5	2281.3	2289.7	2299.0	2317.6	2321.0	2334.5	2389.3	2324.4	2132.8
32.5°	2418.9	2441.7	2456.9	2467.8	2482.2	2499.9	2510.0	2526.9	2580.1	2473.7	2226.4
35°	2616.4	2629.9	2651.8	2670.4	2678.8	2709.2	2725.2	2729.5	2770.0	2602.9	2295.7
37.5°	2753.1	2775.9	2813.9	2840.0	2855.2	2872.1	2899.1	2916.8	2955.7	2720.2	2330.3
40°	2927.0	2961.6	2991.9	3030.8	3055.2	3067.9	3094.9	3109.3	3114.3	2820.6	2319.3
42.5°	3138.8	3170.0	3210.5	3241.8	3260.3	3274.7	3296.6	3302.5	3236.7	2867.9	2260.2
45°	3338.0	3386.1	3420.7	3443.5	3457.0	3464.6	3478.1	3478.9	3338.0	2844.2	2158.9
47.5°	3552.4	3587.0	3619.0	3635.1	3633.4	3635.1	3630.0	3626.6	3388.6	2762.4	2029.0
50°	3789.5	3812.3	3825.8	3833.4	3837.6	3821.6	3798.8	3783.6	3392.8	2645.9	1897.3
52.5°	4107.7	4136.4	4133.9	4133.0	4099.3	4084.1	4023.3	3992.1	3368.4	2509.2	1748.7
55°	4913.7	4885.9	4831.0	4858.0	4720.4	4648.7	4554.2	4466.4	3400.4	2379.2	1576.6
57.5°	6740.1	6751.1	6594.9	6511.4	6279.3	5989.0	5755.2	5528.1	3689.1	2299.9	1352.1
60°	8645.8	8502.4	8304.0	8001.9	7703.1	7271.8	6855.7	6462.4	3976.9	2217.2	1086.2
62.5°	9478.0	9273.8	8974.2	8583.4	8114.1	7586.6	7068.4	6589.0	3837.6	1949.6	790.0
65°	9309.2	8996.9	8666.1	8208.7	7638.1	7060.0	6454.8	5965.3	3210.5	1454.2	487.0
67.5°	8426.4	8161.4	7812.0	7269.3	6659.1	6057.3	5502.8	4954.2	2385.1	906.4	272.6
70°	7112.3	6853.2	6498.7	5943.4	5334.0	4758.4	4171.0	3723.7	1520.0	437.2	196.6
72.5°	4934.0	4723.8	4473.2	4077.3	3543.1	3019.8	2622.3	2278.8	842.3	232.1	179.8
75°	2003.6	2004.5	1958.9	1791.8	1514.1	1305.7	1113.2	944.4	351.9	197.5	177.2
77.5°	454.1	461.7	504.7	478.5	431.3	403.4	361.2	319.0	214.4	203.4	178.9
80°	229.6	230.4	227.9	228.7	226.2	227.0	223.7	221.1	200.9	209.3	178.9
82.5°	191.6	195.8	195.0	195.0	195.8	195.8	195.8	195.0	208.5	220.3	173.0
85°	151.9	160.4	167.1	173.9	181.5	186.5	189.1	191.6	202.6	216.9	157.0
87.5°	114.8	124.9	133.4	140.1	151.9	151.9	160.4	166.3	166.3	169.6	82.7
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: P159328

CATALOG NUMBER: VST-E05-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1212.0	1212.0	1212.0	1212.0	1212.0
2.5°	1170.6	1167.2	1163.9	1162.2	1158.8
5°	1162.2	1155.4	1151.2	1151.2	1147.8
7.5°	1186.7	1184.1	1178.2	1174.8	1178.2
10°	1239.0	1234.8	1228.0	1222.9	1225.5
12.5°	1309.0	1292.2	1278.6	1272.7	1268.5
15°	1381.6	1347.9	1320.8	1305.7	1301.4
17.5°	1459.3	1400.2	1359.7	1336.9	1332.7
20°	1538.6	1465.2	1407.8	1378.2	1377.4
22.5°	1634.0	1536.1	1462.6	1423.8	1421.3
25°	1734.4	1599.4	1502.3	1452.5	1447.4
27.5°	1821.3	1650.0	1526.8	1467.7	1462.6
30°	1893.9	1688.0	1547.0	1478.7	1471.9
32.5°	1946.2	1709.9	1555.5	1482.0	1474.5
35°	1963.1	1701.5	1531.8	1451.7	1443.2
37.5°	1940.3	1646.6	1466.0	1377.4	1367.3
40°	1872.0	1550.4	1358.8	1267.7	1255.0
42.5°	1767.3	1432.3	1229.7	1142.8	1126.7
45°	1638.2	1298.9	1101.4	1004.3	996.8
47.5°	1503.1	1158.8	957.1	869.3	860.0
50°	1357.1	996.8	816.1	720.8	720.8
52.5°	1183.3	838.9	652.4	580.7	574.8
55°	983.2	660.8	519.9	465.0	457.4
57.5°	768.0	508.1	415.2	383.2	374.7
60°	564.6	381.5	334.2	316.5	313.1
62.5°	383.2	290.3	269.2	261.6	260.8
65°	259.1	226.2	220.3	217.7	218.6
67.5°	199.2	188.2	185.7	184.8	184.8
70°	173.0	166.3	163.7	164.6	163.7
72.5°	162.9	153.6	154.5	156.1	155.3
75°	159.5	147.7	151.1	151.9	148.5
77.5°	157.0	140.9	149.4	151.9	142.6
80°	151.9	135.0	155.3	156.1	140.1
82.5°	139.3	119.8	155.3	143.5	126.6
85°	118.2	91.2	175.6	124.9	93.7
87.5°	75.1	54.0	119.0	85.2	56.5
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)