

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: P159333

Luminaire Tested: **VST-F05-LED-E-U-T2-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P159333
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-F05-LED-E-U-T2-8030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA
Light Source: (35) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 10753.1 lumens
Efficiency: N/A
Efficacy: 80.7 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): 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



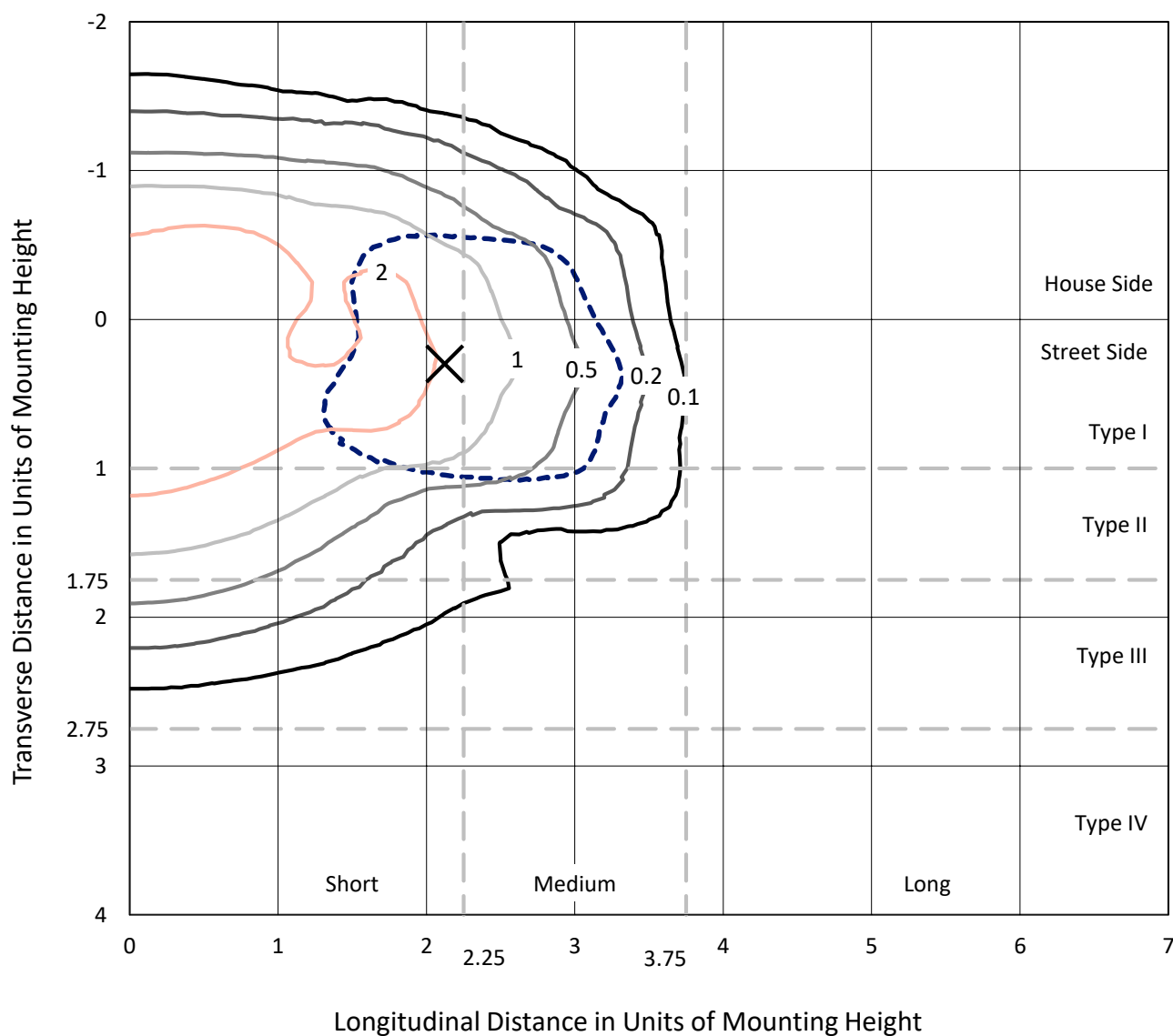
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

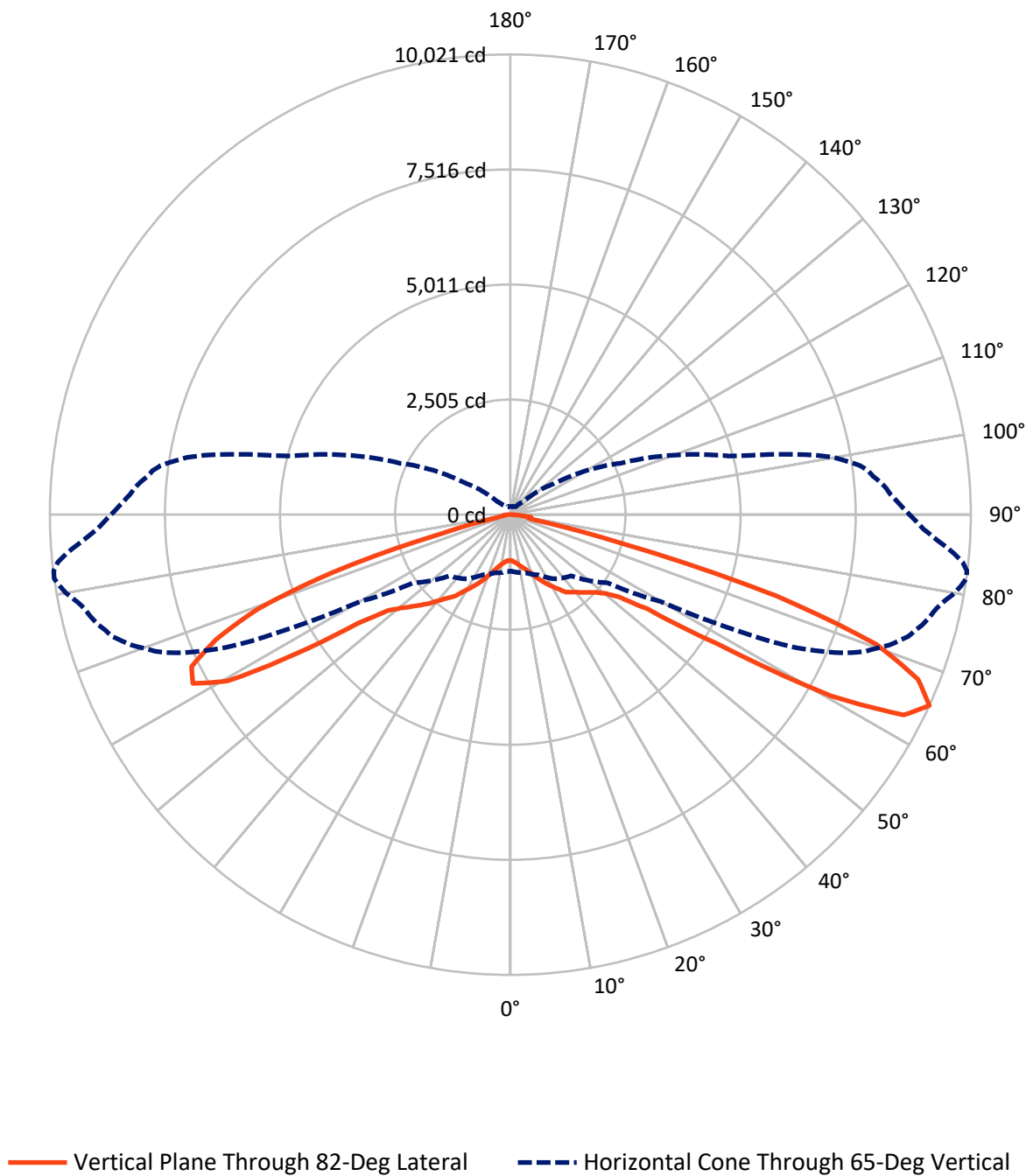


Based on 20 foot mounting height. Maximum calculated value = 3.2 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4003.7	0.0	4003.7
	% Fixture	37.2	0.0	37.2
Street Side	Lumens	6749.4	0.0	6749.4
	% Fixture	62.8	0.0	62.8
Total	Lumens	10753.1	0.0	10753.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	101.3	0.9
10°-20°	355.9	3.3
20°-30°	705.2	6.6
30°-40°	1208.9	11.2
40°-50°	1816.0	16.9
50°-60°	2523.0	23.5
60°-70°	2878.4	26.8
70°-80°	991.6	9.2
80°-90°	172.8	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°	10753.1	100.0
0°-180°	10753.1	100.0

Coefficient of Utilization



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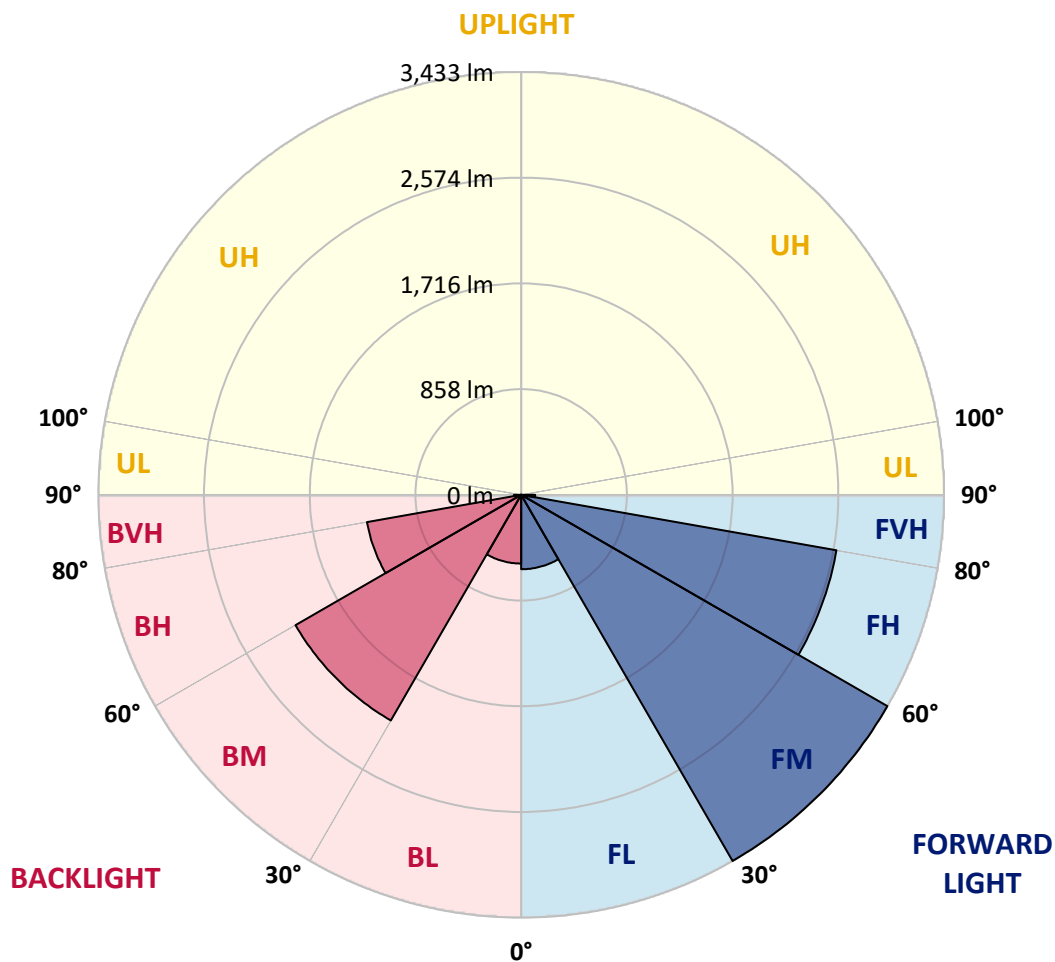
CATALOG NUMBER: VST-F05-LED-E-U-T2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	604.1	5.6			
FM	(30°-60°)	3432.6	31.9			
FH	(60°-80°)	2598.9	24.2			G2/5000
FVH	(80°-90°)	113.8	1.1			G2/225
BL	(0°-30°)	558.3	5.2	B2/1000		
BM	(30°-60°)	2115.3	19.7	B2/2500		
BH	(60°-80°)	1271.1	11.8	B3/2500		G3/2500
BVH	(80°-90°)	59.1	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°	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5
2.5°	1054.9	1055.6	1054.9	1052.8	1052.1	1045.8	1038.8	1035.3	1034.7	1031.9	1032.6
5°	1120.4	1118.3	1115.5	1112.0	1108.5	1098.1	1086.2	1079.9	1077.8	1075.8	1073.0
7.5°	1178.9	1180.3	1178.9	1174.0	1164.9	1151.7	1136.4	1126.6	1125.9	1123.8	1121.7
10°	1254.1	1257.6	1249.2	1240.9	1228.3	1208.1	1190.7	1178.2	1176.1	1173.3	1171.9
12.5°	1335.6	1336.3	1333.6	1314.7	1293.8	1266.0	1240.9	1228.3	1225.6	1222.1	1220.7
15°	1422.7	1423.4	1408.1	1390.0	1357.9	1324.5	1289.7	1275.7	1272.2	1272.9	1267.4
17.5°	1491.7	1493.1	1478.5	1455.5	1417.2	1377.4	1339.8	1328.7	1326.6	1327.3	1324.5
20°	1521.7	1523.8	1514.7	1497.3	1461.1	1426.2	1399.0	1392.1	1391.4	1390.0	1395.6
22.5°	1520.3	1521.0	1517.5	1510.5	1488.9	1468.7	1465.2	1469.4	1468.7	1470.1	1475.0
25°	1507.7	1509.8	1509.1	1511.9	1508.4	1516.1	1532.1	1546.8	1548.8	1551.6	1560.7
27.5°	1539.8	1544.0	1539.1	1541.9	1547.4	1573.2	1606.0	1628.3	1632.5	1640.1	1647.8
30°	1665.2	1659.6	1653.4	1646.4	1649.9	1665.9	1702.8	1722.3	1724.4	1730.0	1740.4
32.5°	1851.2	1845.0	1839.4	1828.2	1825.4	1818.5	1831.0	1835.9	1835.2	1840.8	1843.6
35°	2060.9	2061.6	2060.2	2068.6	2075.6	2040.0	1996.1	1984.3	1989.2	1982.9	1984.3
37.5°	2240.0	2242.1	2279.0	2325.0	2338.2	2315.9	2219.8	2172.4	2156.4	2154.3	2138.3
40°	2438.6	2438.6	2494.3	2550.7	2587.7	2615.5	2501.3	2417.7	2383.5	2373.8	2334.1
42.5°	2656.7	2645.5	2696.4	2758.4	2826.7	2890.1	2830.8	2736.8	2688.0	2670.6	2600.9
45°	2835.7	2828.7	2853.8	2911.7	3022.4	3146.5	3154.8	3106.7	3077.5	3041.3	2977.2
47.5°	2945.8	2942.3	2956.9	3019.7	3158.3	3359.0	3471.1	3495.5	3478.1	3450.2	3388.2
50°	2989.0	2984.1	2994.6	3064.2	3219.6	3484.4	3732.4	3847.4	3855.7	3862.0	3842.5
52.5°	2973.7	2967.4	2989.0	3047.5	3209.2	3528.3	3936.6	4157.4	4194.3	4225.7	4289.8
55°	2826.7	2816.9	2875.4	2985.5	3163.9	3512.2	4085.7	4455.6	4533.7	4617.3	4759.4
57.5°	2601.6	2593.2	2677.6	2828.7	3083.8	3468.3	4186.0	4832.6	5008.1	5158.6	5562.0
60°	2384.9	2378.0	2427.4	2573.7	2823.9	3254.5	4062.0	4959.4	5254.1	5578.8	6315.2
62.5°	1997.5	1978.7	2044.9	2168.2	2326.4	2692.2	3520.6	4677.2	5131.5	5608.7	6607.1
65°	1227.6	1254.8	1312.0	1448.5	1707.7	1881.9	2585.6	3784.0	4383.2	4981.7	6276.9
67.5°	779.6	787.3	829.8	924.6	1125.2	1300.1	1567.0	2374.5	2836.4	3425.2	4928.0
70°	668.2	673.0	709.3	808.2	946.9	1162.2	1185.8	1240.2	1406.0	1780.9	2897.0
72.5°	526.7	535.1	563.7	649.4	816.6	1047.9	1463.8	980.3	946.9	978.2	1413.7
75°	313.5	323.3	347.0	393.7	524.6	801.2	1533.5	1140.6	1063.2	1002.6	975.4
77.5°	165.8	158.9	174.9	202.1	269.6	427.1	1152.4	1397.7	1343.3	1270.8	1116.9
80°	82.2	85.0	89.9	95.5	120.5	173.5	576.2	1445.7	1602.5	1672.2	1535.6
82.5°	32.7	36.9	52.3	55.7	66.2	73.9	185.3	801.2	1147.5	1556.5	2032.4
85°	16.7	16.0	27.9	33.4	39.0	34.8	65.5	298.9	537.9	838.2	1357.9
87.5°	2.1	2.8	6.3	8.4	11.8	11.1	18.8	64.8	103.1	146.3	205.5
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5
2.5°	1029.1	1028.4	1028.4	1025.6	1025.6	1026.3	1024.2	1022.8	1022.8	1023.5	1020.7
5°	1070.9	1068.8	1068.8	1066.0	1062.5	1062.5	1059.7	1059.0	1057.6	1054.9	1052.8
7.5°	1119.7	1117.6	1114.1	1112.0	1110.6	1108.5	1105.0	1103.6	1100.8	1098.1	1095.3
10°	1169.8	1167.0	1165.6	1162.2	1160.8	1156.6	1154.5	1155.2	1149.6	1147.5	1148.2
12.5°	1220.0	1217.2	1212.3	1210.9	1210.2	1206.0	1204.0	1202.6	1198.4	1197.7	1195.6
15°	1264.6	1266.0	1263.9	1260.4	1257.6	1256.9	1254.8	1253.4	1250.6	1247.9	1245.1
17.5°	1322.4	1324.5	1321.7	1316.8	1316.8	1316.1	1316.8	1316.1	1311.3	1313.3	1312.0
20°	1396.3	1397.7	1390.7	1392.8	1394.2	1393.5	1395.6	1397.7	1396.3	1396.3	1398.3
22.5°	1481.3	1483.3	1479.2	1482.0	1486.1	1482.7	1488.9	1488.2	1489.6	1491.7	1492.4
25°	1568.4	1572.5	1569.0	1576.7	1573.9	1576.7	1584.4	1582.3	1585.8	1591.3	1593.4
27.5°	1655.4	1658.2	1658.9	1663.8	1668.7	1672.9	1682.6	1682.6	1685.4	1695.2	1695.2
30°	1746.7	1749.5	1752.3	1759.3	1762.0	1769.7	1779.5	1782.2	1780.9	1794.8	1799.0
32.5°	1851.9	1854.7	1859.6	1867.9	1871.4	1879.1	1879.1	1886.8	1892.3	1904.2	1904.9
35°	1992.0	1994.1	1992.0	1991.3	1996.1	2006.6	2007.3	2018.4	2023.3	2035.2	2038.6
37.5°	2132.0	2131.3	2122.3	2112.5	2113.2	2109.0	2106.2	2111.1	2113.2	2113.9	2121.6
40°	2320.8	2302.7	2288.8	2264.4	2253.2	2235.8	2225.4	2224.7	2213.5	2212.1	2214.2
42.5°	2568.2	2547.3	2514.5	2473.4	2442.1	2410.0	2386.3	2372.4	2348.0	2335.5	2325.0
45°	2913.7	2862.2	2823.2	2774.4	2713.8	2658.0	2599.5	2573.0	2526.4	2497.8	2465.7
47.5°	3336.0	3285.1	3225.2	3175.0	3095.6	3018.3	2938.1	2867.8	2786.2	2721.4	2668.5
50°	3794.4	3764.5	3721.3	3674.6	3572.2	3521.3	3420.3	3324.8	3237.0	3121.4	3020.3
52.5°	4264.7	4282.1	4272.4	4255.7	4190.9	4171.4	4084.3	3967.9	3879.4	3800.0	3624.4
55°	4844.4	4865.3	4907.1	4931.5	4923.8	4973.3	4951.7	4861.1	4825.6	4788.7	4663.9
57.5°	5731.3	5880.4	6040.0	6180.0	6212.8	6388.4	6350.7	6441.3	6505.4	6459.4	6419.0
60°	6676.8	6977.8	7248.8	7532.4	7763.0	7935.8	8164.3	8318.3	8415.2	8589.4	8603.3
62.5°	7057.9	7466.9	7811.1	8140.0	8413.8	8653.5	8859.7	9072.2	9246.4	9403.8	9517.4
65°	6848.9	7276.0	7693.4	8027.1	8290.5	8496.7	8721.0	8889.6	9061.0	9162.1	9281.2
67.5°	5693.7	6259.5	6773.0	7149.2	7509.4	7719.1	7984.6	8150.4	8332.3	8438.9	8515.5
70°	3712.2	4448.7	5150.3	5720.9	6207.2	6451.8	6772.3	6998.7	7217.5	7223.1	7350.6
72.5°	2003.1	2619.0	3206.4	3789.5	4344.1	4669.5	4985.8	5261.1	5478.4	5385.8	5512.6
75°	1115.5	1403.9	1725.1	2075.6	2413.5	2599.5	2835.7	2837.1	2949.3	2773.0	2817.6
77.5°	1073.0	1059.7	1064.6	1074.4	1091.1	1055.6	1054.9	1033.3	999.8	939.2	949.7
80°	1409.5	1240.9	1119.7	929.4	748.3	610.3	572.0	581.1	608.3	662.6	731.6
82.5°	2038.0	1895.8	1692.4	1392.8	1093.2	843.1	692.6	614.5	611.0	665.4	769.9
85°	1484.0	1569.7	1556.5	1299.4	1071.6	870.2	633.3	535.1	443.1	421.5	458.5
87.5°	218.8	181.2	204.1	170.7	124.0	96.1	84.3	67.6	64.8	66.2	72.5
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5
2.5°	1021.4	1018.6	1015.8	1017.9	1015.8	1015.1	1013.1	1011.7	1011.0	1011.0	1011.0
5°	1052.8	1049.3	1047.2	1046.5	1044.4	1042.3	1041.6	1038.1	1037.4	1037.4	1035.3
7.5°	1095.3	1092.5	1089.0	1086.9	1085.5	1082.0	1078.5	1077.8	1077.2	1074.4	1072.3
10°	1144.7	1140.6	1136.4	1136.4	1133.6	1132.9	1129.4	1124.5	1123.8	1119.7	1118.3
12.5°	1191.4	1190.0	1185.1	1183.8	1181.7	1179.6	1177.5	1175.4	1173.3	1169.8	1171.2
15°	1247.2	1243.7	1239.5	1240.2	1239.5	1236.7	1233.9	1231.8	1230.4	1229.0	1229.0
17.5°	1314.0	1312.6	1312.0	1308.5	1305.7	1307.8	1307.8	1307.8	1304.3	1305.0	1305.7
20°	1399.0	1400.4	1399.0	1396.3	1395.6	1397.7	1392.8	1400.4	1396.3	1393.5	1394.9
22.5°	1493.1	1498.0	1492.4	1493.1	1496.6	1498.0	1493.1	1499.4	1497.3	1493.1	1496.6
25°	1595.5	1599.0	1596.2	1595.5	1597.6	1602.5	1601.8	1601.1	1606.0	1601.8	1603.9
27.5°	1700.7	1702.8	1704.2	1706.3	1707.7	1707.0	1709.8	1709.8	1712.6	1707.7	1709.8
30°	1805.2	1805.2	1808.0	1810.8	1810.8	1810.8	1816.4	1817.1	1812.9	1814.3	1809.4
32.5°	1916.7	1917.4	1920.2	1920.2	1925.8	1926.5	1932.7	1924.4	1932.7	1925.8	1927.2
35°	2047.7	2056.8	2058.2	2065.1	2070.7	2072.8	2072.8	2073.5	2081.1	2075.6	2077.7
37.5°	2124.3	2126.4	2132.0	2135.5	2135.5	2138.3	2140.4	2138.3	2140.4	2139.7	2141.8
40°	2214.9	2212.8	2219.1	2220.5	2217.7	2221.2	2220.5	2218.4	2224.0	2219.8	2222.6
42.5°	2325.0	2313.2	2312.5	2318.0	2312.5	2315.3	2314.6	2309.7	2316.6	2318.7	2316.6
45°	2442.8	2436.5	2423.9	2423.9	2418.4	2416.3	2417.0	2416.3	2417.0	2425.3	2428.1
47.5°	2634.4	2596.0	2574.4	2554.2	2537.5	2536.8	2529.2	2533.3	2538.9	2552.8	2565.4
50°	2955.6	2867.1	2812.7	2762.6	2726.3	2713.8	2699.2	2697.8	2702.6	2718.7	2740.3
52.5°	3528.3	3405.6	3290.0	3182.7	3089.3	3017.6	2982.0	2963.2	2956.2	2972.3	2993.2
55°	4576.2	4344.8	4181.8	4073.1	3841.1	3742.9	3616.8	3558.9	3502.5	3508.1	3543.6
57.5°	6366.8	6242.1	6105.5	5915.3	5773.2	5601.8	5286.8	5111.3	5118.9	5160.0	5031.8
60°	8713.4	8587.3	8530.8	8358.0	8259.1	8190.1	8022.9	7731.7	7628.6	7609.0	7373.6
62.5°	9604.5	9634.5	9679.1	9727.8	9725.0	9755.0	9608.7	9513.9	9394.8	9240.1	9007.4
65°	9371.8	9447.7	9538.3	9669.3	9818.4	9928.5	10021.1	10010.0	9898.5	9692.3	9446.3
67.5°	8583.8	8659.0	8725.2	8900.8	9145.4	9369.0	9566.9	9701.3	9626.8	9456.1	9169.0
70°	7399.3	7453.7	7495.5	7648.1	7916.3	8189.4	8447.9	8673.7	8650.7	8443.7	8214.5
72.5°	5361.4	5493.1	5564.1	5553.7	5719.5	6025.4	6061.6	6254.6	6308.2	6085.3	5720.2
75°	2612.1	2614.2	2531.9	2504.8	2513.1	2566.1	2465.1	2471.3	2436.5	2278.3	2148.0
77.5°	912.7	887.6	827.7	756.7	654.9	559.5	462.6	420.8	406.9	365.8	337.2
80°	786.6	823.5	811.7	753.2	645.9	514.9	384.6	285.0	243.2	228.5	214.6
82.5°	893.2	1035.3	1125.9	1121.0	974.0	731.6	456.4	262.0	186.7	163.7	150.5
85°	498.2	535.8	546.2	497.5	413.2	282.2	157.5	110.8	94.1	85.7	77.3
87.5°	79.4	72.5	71.1	62.0	58.5	53.6	47.4	44.6	41.1	39.0	39.0
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-F05-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	91°	92°	93°	94°	95°	96°	97°
0°	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5
2.5°	1010.3	1009.6	1007.5	1005.4	1004.0	1003.3	1002.6	1001.2	1000.5	999.8	998.4
5°	1034.0	1032.6	1029.1	1025.6	1024.2	1022.1	1020.0	1018.6	1017.2	1016.5	1013.8
7.5°	1070.9	1069.5	1065.3	1062.5	1061.8	1056.3	1055.6	1053.5	1050.0	1049.3	1045.1
10°	1115.5	1114.8	1111.3	1109.2	1107.8	1105.0	1100.8	1097.4	1093.9	1093.9	1091.1
12.5°	1167.0	1164.2	1166.3	1161.5	1160.1	1157.3	1155.2	1154.5	1150.3	1146.8	1146.1
15°	1227.6	1224.2	1224.2	1222.8	1221.4	1218.6	1217.9	1218.6	1214.4	1215.8	1211.6
17.5°	1302.9	1304.3	1303.6	1303.6	1300.1	1300.1	1294.5	1301.5	1296.6	1300.1	1298.7
20°	1397.0	1397.7	1396.3	1398.3	1399.7	1399.0	1398.3	1397.7	1399.7	1402.5	1400.4
22.5°	1497.3	1497.3	1496.6	1504.3	1495.9	1502.2	1504.3	1500.1	1511.2	1509.8	1511.9
25°	1606.0	1606.0	1611.5	1617.8	1619.2	1614.3	1617.1	1613.6	1620.6	1626.2	1627.6
27.5°	1707.0	1716.1	1720.2	1716.1	1719.5	1727.2	1726.5	1726.5	1731.4	1730.0	1743.2
30°	1810.8	1816.4	1822.0	1819.2	1820.6	1830.3	1831.0	1831.7	1838.0	1847.0	1856.8
32.5°	1929.3	1934.8	1932.0	1941.1	1940.4	1952.3	1954.3	1956.4	1975.9	1972.5	1992.7
35°	2074.9	2080.5	2077.7	2087.4	2086.0	2090.2	2097.9	2106.2	2109.7	2129.9	2145.9
37.5°	2143.2	2143.2	2149.4	2160.6	2164.8	2171.7	2183.6	2194.0	2211.4	2233.0	2258.1
40°	2225.4	2227.5	2235.8	2247.7	2255.3	2271.4	2293.0	2307.6	2334.1	2357.8	2387.0
42.5°	2325.0	2334.1	2343.8	2359.8	2376.6	2401.6	2432.3	2451.1	2486.0	2516.6	2552.8
45°	2441.4	2450.4	2473.4	2502.7	2527.1	2554.9	2580.0	2624.6	2656.0	2688.0	2719.4
47.5°	2582.1	2608.6	2627.4	2662.2	2692.2	2729.1	2760.5	2802.3	2836.4	2875.4	2901.9
50°	2762.6	2795.3	2819.7	2865.0	2894.2	2935.3	2975.1	3006.4	3041.3	3079.6	3101.2
52.5°	3021.7	3055.2	3085.8	3142.3	3178.5	3206.4	3259.3	3298.3	3330.4	3358.3	3382.0
55°	3583.3	3573.6	3658.6	3767.9	3780.5	3881.5	3900.3	3933.1	3992.3	4000.7	4066.8
57.5°	5187.9	5137.7	5261.1	5421.3	5393.4	5342.6	5555.1	5568.3	5538.4	5618.5	5527.9
60°	7408.4	7320.6	7354.0	7397.9	7334.5	7304.6	7315.0	7345.0	7315.7	7283.7	7195.9
62.5°	8891.0	8755.9	8659.0	8577.5	8474.4	8399.8	8316.2	8213.1	8185.2	8068.2	7970.0
65°	9207.4	8996.9	8843.7	8689.7	8547.6	8415.9	8289.8	8201.3	8084.2	7945.6	7843.2
67.5°	8859.7	8599.1	8374.8	8151.1	7990.2	7796.5	7701.7	7557.5	7413.3	7254.4	7160.4
70°	7849.4	7577.7	7295.5	7076.7	6858.0	6618.3	6571.6	6400.9	6318.0	6101.3	6063.7
72.5°	5417.8	5236.7	5110.6	4840.2	4707.1	4584.5	4545.5	4387.3	4404.1	4166.5	4252.9
75°	1926.5	1900.7	1863.8	1711.2	1684.0	1636.6	1624.1	1612.9	1725.8	1569.0	1682.6
77.5°	330.9	328.9	310.0	301.0	318.4	307.3	310.0	304.5	337.2	342.1	334.4
80°	205.5	200.0	193.7	189.5	190.2	186.0	186.7	188.1	190.2	189.5	191.6
82.5°	140.7	135.9	133.1	130.3	134.5	135.9	139.3	142.8	148.4	151.9	156.1
85°	76.6	70.4	70.4	69.7	75.2	79.4	85.0	92.0	101.7	110.1	119.1
87.5°	39.0	37.6	38.3	39.7	44.6	48.1	55.0	61.3	69.7	78.7	87.1
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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CATALOG NUMBER: VST-F05-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	98°	99°	100°	101°	102°	103°	104°	105°	115°	125°	135°
0°	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5	1000.5
2.5°	997.7	997.7	997.0	997.0	996.3	995.6	994.9	992.8	985.2	978.2	973.3
5°	1013.1	1011.0	1010.3	1008.2	1007.5	1006.1	1004.0	1001.9	988.0	975.4	966.4
7.5°	1044.4	1041.6	1040.2	1038.1	1036.0	1033.3	1030.5	1028.4	1011.7	997.0	985.9
10°	1085.5	1084.1	1083.4	1080.6	1080.6	1076.5	1075.8	1070.9	1052.8	1039.5	1029.8
12.5°	1142.6	1139.9	1139.2	1135.7	1137.1	1135.7	1134.3	1131.5	1118.3	1102.9	1089.7
15°	1213.7	1213.7	1210.2	1207.4	1208.1	1206.7	1209.5	1206.0	1197.7	1183.8	1162.2
17.5°	1299.4	1298.0	1299.4	1297.3	1298.7	1300.1	1296.6	1297.3	1293.1	1275.7	1243.7
20°	1399.0	1397.0	1405.3	1401.8	1409.5	1402.5	1403.9	1406.0	1406.0	1383.0	1339.8
22.5°	1513.3	1511.9	1511.9	1518.9	1521.7	1522.4	1525.2	1527.2	1532.8	1503.6	1434.6
25°	1627.6	1632.5	1633.1	1642.2	1646.4	1646.4	1648.5	1656.1	1672.9	1632.5	1543.3
27.5°	1743.9	1755.8	1758.6	1764.8	1771.1	1777.4	1782.2	1787.8	1815.0	1771.1	1654.7
30°	1860.3	1873.5	1883.3	1890.2	1897.9	1913.2	1916.0	1927.2	1972.5	1918.8	1760.7
32.5°	1996.8	2015.7	2028.2	2037.3	2049.1	2063.7	2072.1	2086.0	2129.9	2042.1	1838.0
35°	2159.9	2171.0	2189.1	2204.5	2211.4	2236.5	2249.8	2253.2	2286.7	2148.7	1895.1
37.5°	2272.8	2291.6	2322.9	2344.5	2357.1	2371.0	2393.3	2407.9	2440.0	2245.6	1923.7
40°	2416.3	2444.8	2469.9	2502.0	2522.2	2532.6	2554.9	2566.8	2571.0	2328.5	1914.6
42.5°	2591.2	2616.9	2650.4	2676.2	2691.5	2703.3	2721.4	2726.3	2672.0	2367.5	1865.9
45°	2755.6	2795.3	2823.9	2842.7	2853.8	2860.1	2871.2	2871.9	2755.6	2348.0	1782.2
47.5°	2932.6	2961.1	2987.6	3000.8	2999.4	3000.8	2996.7	2993.9	2797.4	2280.4	1675.0
50°	3128.3	3147.2	3158.3	3164.6	3168.1	3154.8	3136.0	3123.5	2800.9	2184.3	1566.3
52.5°	3391.0	3414.7	3412.6	3411.9	3384.0	3371.5	3321.3	3295.6	2780.7	2071.4	1443.6
55°	4056.4	4033.4	3988.1	4010.4	3896.8	3837.6	3759.6	3687.1	2807.1	1964.1	1301.5
57.5°	5564.1	5573.2	5444.3	5375.3	5183.7	4944.0	4751.0	4563.6	3045.4	1898.6	1116.2
60°	7137.4	7018.9	6855.2	6605.7	6359.1	6003.1	5659.6	5334.9	3283.0	1830.3	896.7
62.5°	7824.3	7655.7	7408.4	7085.8	6698.4	6263.0	5835.2	5439.4	3168.1	1609.5	652.1
65°	7685.0	7427.2	7154.1	6776.4	6305.5	5828.2	5328.6	4924.5	2650.4	1200.5	402.0
67.5°	6956.2	6737.4	6449.0	6001.0	5497.2	5000.5	4542.7	4089.8	1969.0	748.3	225.0
70°	5871.4	5657.5	5364.9	4906.4	4403.4	3928.2	3443.3	3074.0	1254.8	360.9	162.3
72.5°	4073.1	3899.6	3692.7	3365.9	2924.9	2492.9	2164.8	1881.2	695.3	191.6	148.4
75°	1654.1	1654.7	1617.1	1479.2	1249.9	1077.8	919.0	779.6	290.5	163.0	146.3
77.5°	374.8	381.1	416.6	395.0	356.0	333.0	298.2	263.4	177.0	167.9	147.7
80°	189.5	190.2	188.1	188.8	186.7	187.4	184.6	182.5	165.8	172.8	147.7
82.5°	158.2	161.6	160.9	160.9	161.6	161.6	161.6	160.9	172.1	181.8	142.8
85°	125.4	132.4	138.0	143.5	149.8	154.0	156.1	158.2	167.2	179.1	129.6
87.5°	94.8	103.1	110.1	115.7	125.4	125.4	132.4	137.3	137.3	140.0	68.3
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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CATALOG NUMBER: VST-F05-LED-E-U-T2-8030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	1000.5	1000.5	1000.5	1000.5	1000.5
2.5°	966.4	963.6	960.8	959.4	956.6
5°	959.4	953.8	950.3	950.3	947.6
7.5°	979.6	977.5	972.6	969.9	972.6
10°	1022.8	1019.3	1013.8	1009.6	1011.7
12.5°	1080.6	1066.7	1055.6	1050.7	1047.2
15°	1140.6	1112.7	1090.4	1077.8	1074.4
17.5°	1204.7	1155.9	1122.4	1103.6	1100.1
20°	1270.1	1209.5	1162.2	1137.8	1137.1
22.5°	1348.9	1268.1	1207.4	1175.4	1173.3
25°	1431.8	1320.3	1240.2	1199.1	1194.9
27.5°	1503.6	1362.1	1260.4	1211.6	1207.4
30°	1563.5	1393.5	1277.1	1220.7	1215.1
32.5°	1606.7	1411.6	1284.1	1223.5	1217.2
35°	1620.6	1404.6	1264.6	1198.4	1191.4
37.5°	1601.8	1359.3	1210.2	1137.1	1128.7
40°	1545.4	1279.9	1121.7	1046.5	1036.0
42.5°	1459.0	1182.4	1015.1	943.4	930.1
45°	1352.4	1072.3	909.2	829.1	822.8
47.5°	1240.9	956.6	790.1	717.6	710.0
50°	1120.4	822.8	673.7	595.0	595.0
52.5°	976.8	692.6	538.6	479.4	474.5
55°	811.7	545.5	429.2	383.9	377.6
57.5°	634.0	419.4	342.8	316.3	309.4
60°	466.1	314.9	275.9	261.3	258.5
62.5°	316.3	239.7	222.3	216.0	215.3
65°	213.9	186.7	181.8	179.8	180.5
67.5°	164.4	155.4	153.3	152.6	152.6
70°	142.8	137.3	135.2	135.9	135.2
72.5°	134.5	126.8	127.5	128.9	128.2
75°	131.7	121.9	124.7	125.4	122.6
77.5°	129.6	116.4	123.3	125.4	117.7
80°	125.4	111.5	128.2	128.9	115.7
82.5°	115.0	98.9	128.2	118.4	104.5
85°	97.5	75.2	144.9	103.1	77.3
87.5°	62.0	44.6	98.2	70.4	46.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)