

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: P157804

Luminaire Tested: **VST-F06-LED-E-U-5XQ-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P157804
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33710)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: VST-F06-LED-E-U-5XQ-7030
Description: VENTUS LED SITE/ROADWAY LUMINAIRE
(6) LIGHTBARS WITH AccuLED OPTICS - TYPE 5 SQUARE EXTRA WIDE
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 14307.3 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B4 - U1 - G3

Input Watts (W): 156.5
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

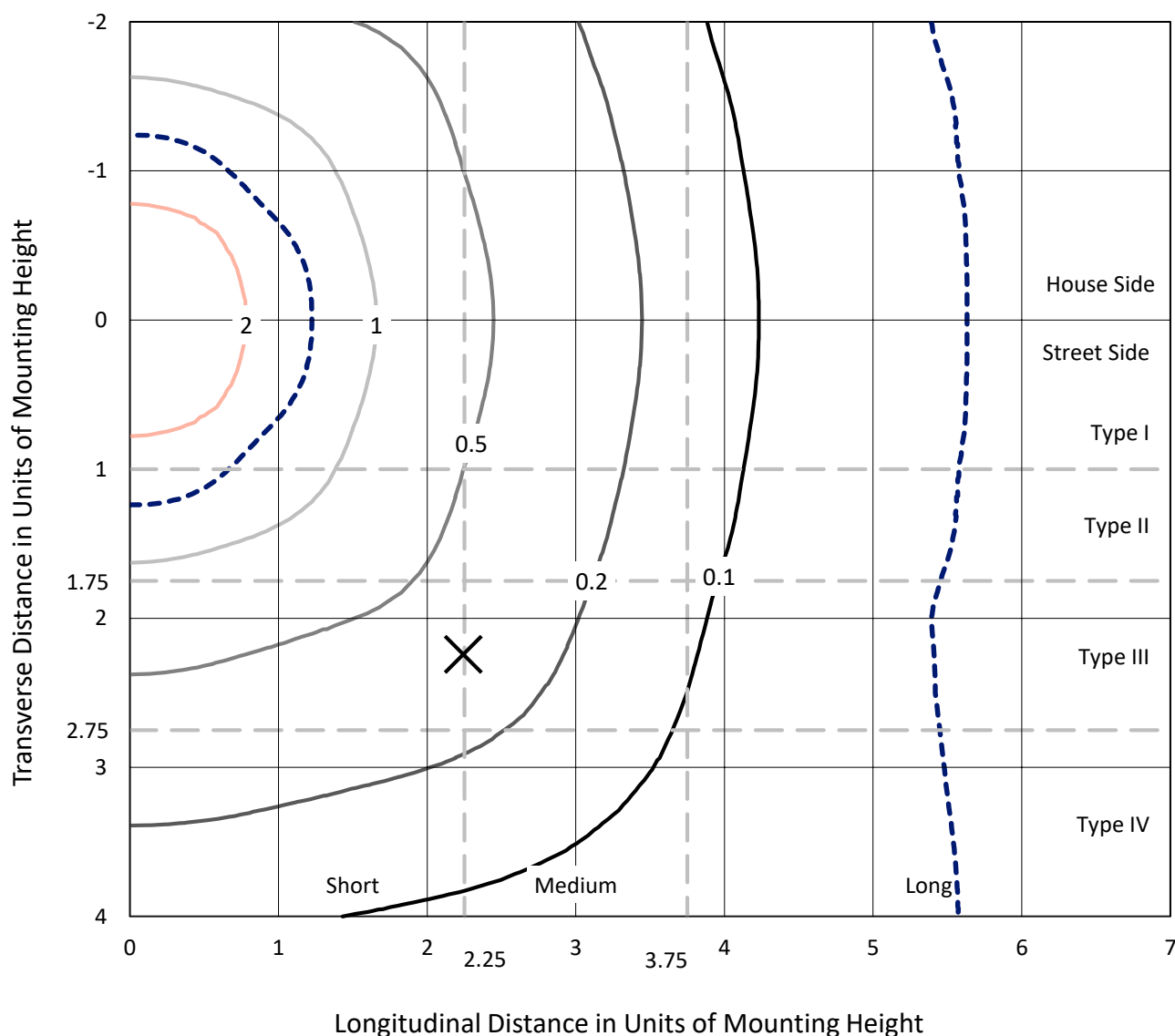


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

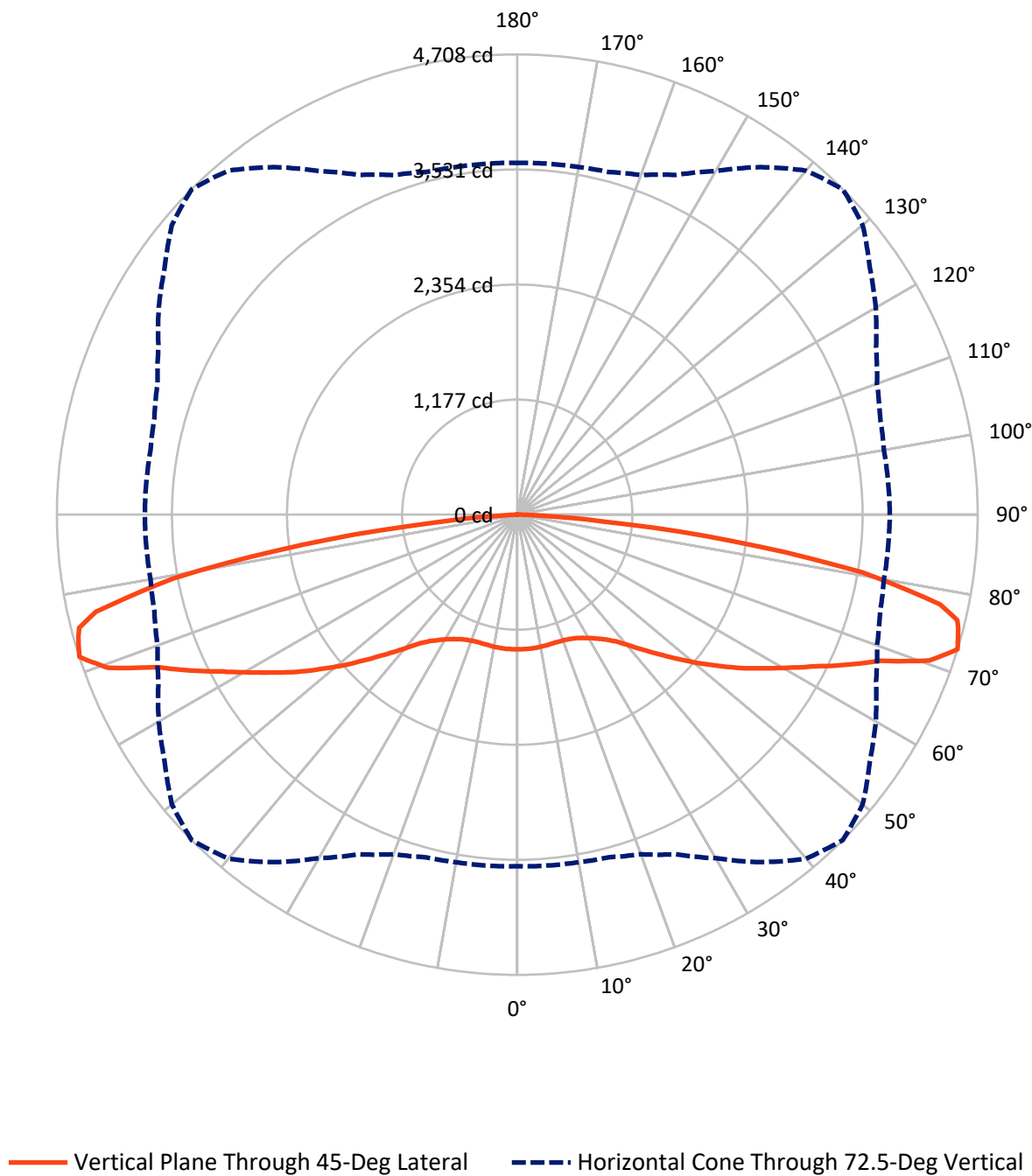


Based on 20 foot mounting height. Maximum calculated value = 3.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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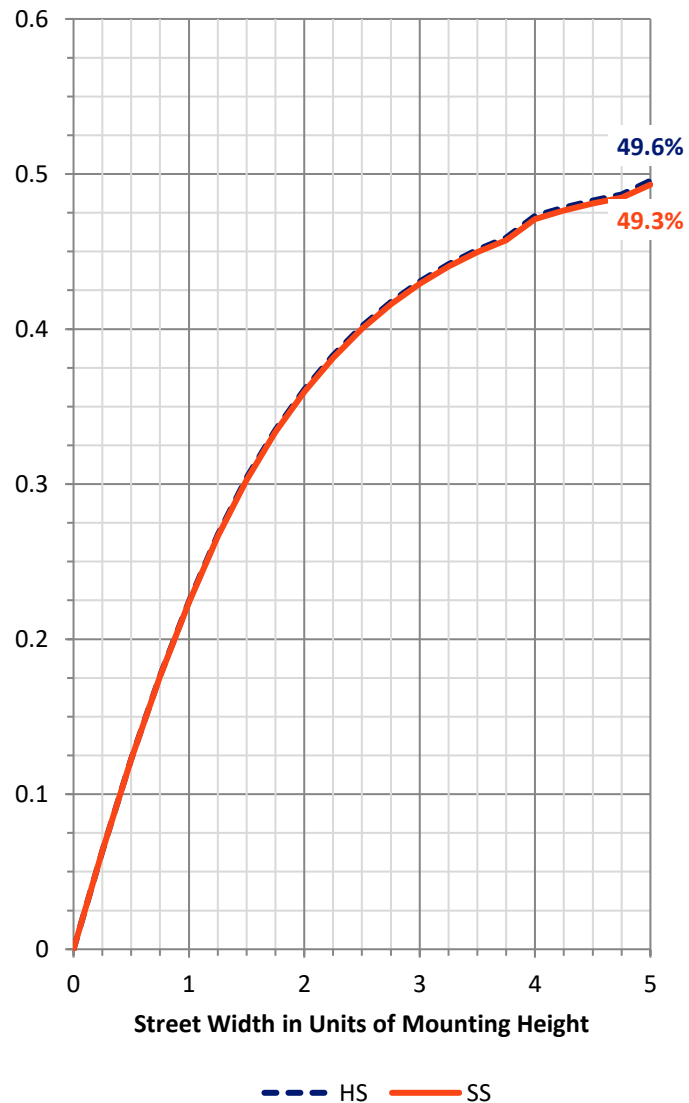
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	7150.2	3.5	7153.7
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	7150.2	3.5	7153.7
	% Fixture	50.0	0.0	50.0
Total	Lumens	14300.4	6.9	14307.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	131.4	0.9
10°-20°	388.1	2.7
20°-30°	648.9	4.5
30°-40°	986.3	6.9
40°-50°	1562.1	10.9
50°-60°	2389.5	16.7
60°-70°	3419.8	23.9
70°-80°	3913.0	27.3
80°-90°	861.2	6.0
90°-100°	0.7	0.0
100°-110°	1.5	0.0
110°-120°	1.0	0.0
120°-130°	1.1	0.0
130°-140°	1.0	0.0
140°-150°	0.8	0.0
150°-160°	0.5	0.0
160°-170°	0.2	0.0
170°-180°	0.0	0.0
0°-90°	14300.4	100.0
0°-180°	14307.3	100.0

Coefficient of Utilization



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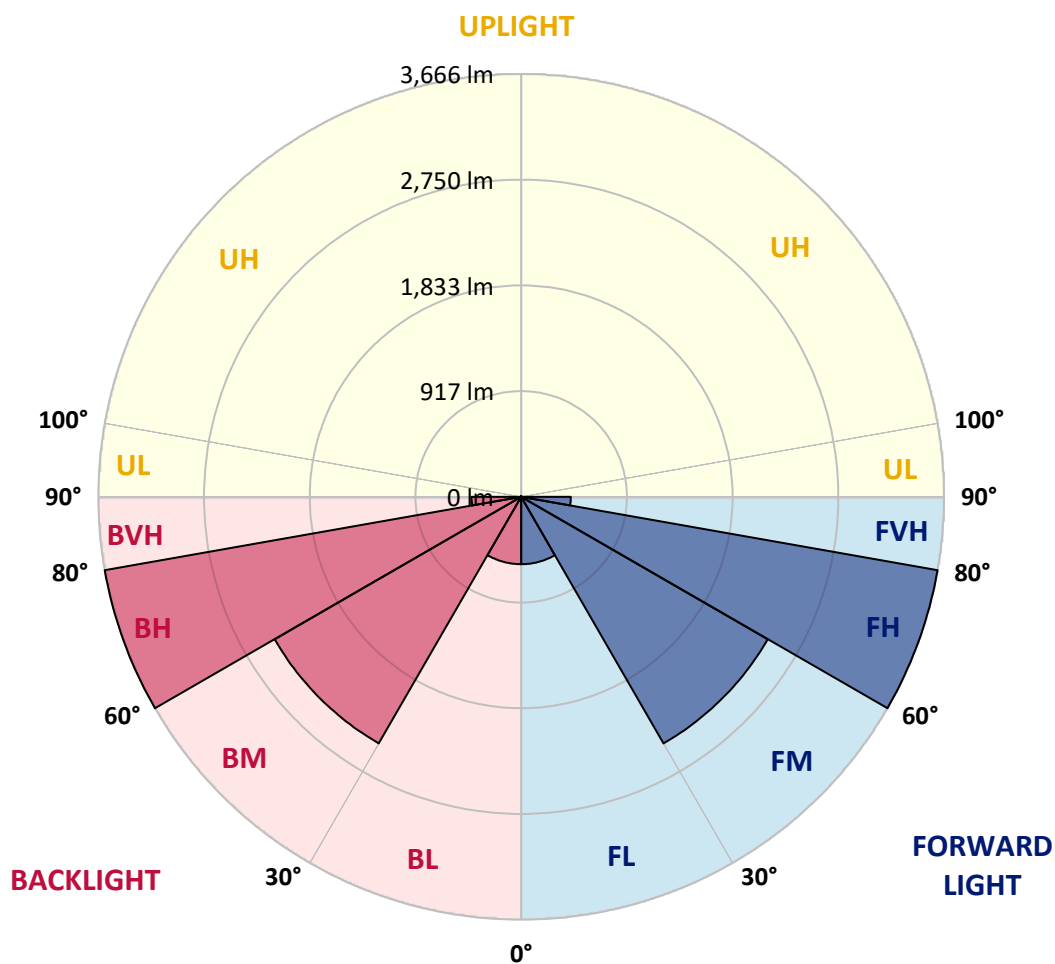
CATALOG NUMBER: VST-F06-LED-E-U-5XQ-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	584.2	4.1			
FM	(30°-60°)	2469.0	17.3			
FH	(60°-80°)	3666.4	25.6			G2/5000
FVH	(80°-90°)	430.6	3.0			G3/500
BL	(0°-30°)	584.2	4.1	B2/1000		
BM	(30°-60°)	2469.0	17.3	B2/2500		
BH	(60°-80°)	3666.4	25.6	B4/5000		G2/5000
BVH	(80°-90°)	430.6	3.0			G3/500
UL	(90°-100°)	0.7	0.0		U1/10	
UH	(100°-180°)	3.5	0.0		U1/10	

BUG Rating: B4-U1-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1
2.5°	1378.0	1376.2	1377.1	1378.9	1378.0	1378.0	1377.1	1377.1	1378.9	1377.1	1378.0
5°	1378.9	1377.1	1378.0	1378.9	1378.0	1378.9	1378.0	1378.0	1378.0	1377.1	1378.9
7.5°	1375.3	1375.3	1376.2	1376.2	1375.3	1376.2	1376.2	1376.2	1375.3	1375.3	1377.1
10°	1373.5	1372.6	1372.6	1373.5	1372.6	1372.6	1373.5	1373.5	1371.7	1371.7	1373.5
12.5°	1370.8	1369.9	1369.9	1369.9	1369.0	1369.0	1369.9	1369.9	1369.0	1368.0	1370.8
15°	1369.0	1368.0	1368.0	1368.0	1366.2	1367.1	1367.1	1367.1	1366.2	1365.3	1368.0
17.5°	1368.0	1367.1	1367.1	1367.1	1366.2	1366.2	1366.2	1366.2	1365.3	1365.3	1367.1
20°	1369.9	1369.9	1369.9	1369.9	1369.0	1369.0	1369.0	1369.9	1369.9	1369.9	1371.7
22.5°	1374.4	1374.4	1375.3	1376.2	1376.2	1378.0	1378.9	1379.8	1379.8	1380.7	1382.5
25°	1386.1	1386.1	1387.0	1388.0	1390.7	1392.5	1396.1	1397.9	1398.8	1398.8	1399.7
27.5°	1407.9	1408.8	1410.6	1412.4	1416.0	1418.7	1422.3	1426.0	1426.9	1427.8	1428.7
30°	1435.0	1435.9	1439.5	1441.3	1445.9	1451.3	1455.8	1459.4	1462.1	1464.0	1463.0
32.5°	1473.9	1475.7	1480.2	1483.0	1489.3	1494.7	1501.1	1506.5	1509.2	1511.9	1511.0
35°	1528.2	1532.7	1537.2	1540.0	1546.3	1550.8	1559.0	1564.4	1569.8	1568.0	1568.9
37.5°	1608.7	1612.3	1613.2	1615.1	1621.4	1625.0	1634.1	1641.3	1644.0	1645.8	1646.7
40°	1717.3	1717.3	1721.8	1718.2	1726.3	1727.2	1738.1	1748.1	1750.8	1758.0	1752.6
42.5°	1844.0	1843.1	1845.8	1843.1	1843.1	1852.1	1861.2	1879.3	1881.1	1890.1	1884.7
45°	1981.5	1981.5	1978.8	1979.7	1981.5	1991.4	2002.3	2022.2	2031.3	2036.7	2033.1
47.5°	2130.8	2127.2	2126.3	2125.4	2130.8	2141.6	2157.9	2176.9	2199.5	2201.4	2199.5
50°	2281.9	2281.0	2274.6	2280.1	2283.7	2289.1	2319.9	2345.2	2368.7	2383.2	2378.7
52.5°	2441.1	2433.0	2433.0	2433.0	2442.0	2459.2	2486.4	2520.8	2552.4	2567.8	2565.1
55°	2602.2	2599.5	2591.3	2587.7	2599.5	2623.9	2662.8	2704.4	2746.0	2769.6	2760.5
57.5°	2749.7	2745.1	2746.0	2746.9	2760.5	2793.1	2838.3	2893.5	2938.8	2964.1	2957.8
60°	2865.5	2860.0	2870.0	2872.7	2897.1	2951.4	3023.8	3093.5	3153.2	3178.5	3168.6
62.5°	2996.7	2993.1	2999.4	2998.5	3024.7	3085.3	3182.2	3293.4	3383.9	3416.5	3402.0
65°	3208.4	3197.5	3194.8	3184.9	3202.1	3249.1	3345.9	3475.3	3620.1	3703.3	3683.4
67.5°	3461.7	3459.0	3450.0	3444.5	3450.9	3509.7	3602.9	3727.7	3875.2	3990.1	4015.5
70°	3629.1	3632.7	3641.8	3655.4	3707.8	3821.8	3991.9	4181.0	4383.7	4469.7	4454.3
72.5°	3597.5	3602.9	3610.1	3627.3	3696.1	3832.7	4057.1	4339.4	4593.6	4707.6	4609.9
75°	3442.7	3447.3	3463.5	3489.8	3573.9	3739.5	3981.1	4280.6	4543.0	4657.0	4554.7
76°	3299.8	3314.3	3344.1	3374.9	3476.2	3656.3	3914.1	4233.5	4511.3	4627.1	4528.5
77.5°	2975.9	2988.5	3013.0	3066.3	3181.2	3412.0	3713.3	4027.2	4316.8	4420.8	4337.6
80°	2239.4	2250.2	2272.8	2337.1	2436.6	2579.6	2813.0	3119.7	3437.3	3573.9	3519.6
82.5°	945.5	958.2	1047.7	1140.9	1250.4	1405.1	1557.1	1828.6	2062.0	2217.6	2134.4
85°	104.1	128.5	158.3	215.3	264.2	352.0	437.9	602.6	761.8	858.6	759.1
87.5°	18.1	20.8	29.9	38.0	42.5	48.9	58.8	82.3	112.2	96.8	98.6
90°	2.7	2.7	2.7	2.7	2.7	2.7	2.7	1.8	1.8	1.8	1.8
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9
95°	0.0	0.0	0.0	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9
97.5°	0.0	0.0	0.0	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
100°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
102.5°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8
105°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
107.5°	0.9	0.9	0.9	0.9	1.8	1.8	0.9	0.9	0.9	1.8	0.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
110°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
112.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
115°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
117.5°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
120°	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
122.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
125°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
127.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
130°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
132.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
135°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
137.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
140°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
142.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
145°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.0	0.9
147.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.9	0.9
150°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.0	0.0	0.0
152.5°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.0	0.0
155°	1.8	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.0	0.9
157.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0
160°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0
162.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0
165°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1	1377.1
2.5°	1377.1	1377.1	1378.9	1378.0	1378.0	1378.9	1380.7	1379.8
5°	1378.0	1378.9	1377.1	1378.0	1378.9	1378.9	1379.8	1378.9
7.5°	1376.2	1376.2	1376.2	1377.1	1378.0	1377.1	1378.0	1378.0
10°	1372.6	1373.5	1372.6	1374.4	1375.3	1375.3	1376.2	1376.2
12.5°	1369.9	1369.9	1369.9	1371.7	1372.6	1372.6	1373.5	1372.6
15°	1367.1	1367.1	1366.2	1368.0	1369.9	1369.9	1370.8	1370.8
17.5°	1366.2	1366.2	1365.3	1367.1	1369.0	1369.0	1369.9	1369.9
20°	1369.0	1369.9	1368.0	1369.9	1371.7	1372.6	1372.6	1372.6
22.5°	1379.8	1378.9	1376.2	1377.1	1378.0	1378.0	1378.0	1378.0
25°	1396.1	1394.3	1391.6	1390.7	1389.8	1388.9	1388.9	1388.9
27.5°	1424.1	1421.4	1416.9	1416.0	1415.1	1413.3	1413.3	1413.3
30°	1457.6	1454.0	1448.6	1446.8	1444.0	1442.2	1441.3	1440.4
32.5°	1505.6	1498.3	1492.0	1487.5	1484.8	1479.3	1478.4	1476.6
35°	1560.8	1555.3	1546.3	1543.6	1539.1	1536.3	1535.4	1530.9
37.5°	1636.8	1630.4	1622.3	1620.5	1619.6	1616.9	1616.9	1616.0
40°	1742.6	1736.3	1729.1	1721.8	1723.6	1724.5	1724.5	1720.9
42.5°	1872.0	1862.1	1847.6	1852.1	1849.4	1845.8	1853.0	1848.5
45°	2019.5	2005.9	1995.1	1990.5	1990.5	1986.0	1993.3	1993.3
47.5°	2183.3	2161.5	2141.6	2142.5	2135.3	2137.1	2141.6	2148.0
50°	2356.1	2327.1	2308.1	2299.1	2291.8	2294.6	2302.7	2304.5
52.5°	2535.2	2499.9	2474.6	2461.0	2452.0	2455.6	2461.9	2467.4
55°	2721.6	2682.7	2644.7	2630.2	2619.4	2626.6	2627.5	2634.8
57.5°	2916.1	2862.8	2818.4	2796.7	2785.9	2793.1	2798.5	2805.8
60°	3112.5	3051.0	2998.5	2973.1	2957.8	2967.7	2980.4	2984.0
62.5°	3340.5	3255.4	3196.6	3160.4	3153.2	3163.2	3166.8	3177.6
65°	3610.1	3507.9	3426.4	3382.1	3380.3	3385.7	3393.9	3396.6
67.5°	3917.8	3803.7	3694.3	3649.9	3632.7	3649.0	3657.2	3668.0
70°	4352.1	4195.5	4037.2	3938.6	3896.9	3884.3	3887.9	3899.7
72.5°	4400.9	4232.6	4048.0	3914.1	3840.8	3807.4	3806.5	3808.3
75°	4294.1	4025.4	3895.1	3741.3	3637.3	3583.0	3575.7	3574.8
76°	4240.8	3923.2	3735.0	3612.8	3488.0	3432.8	3424.6	3420.1
77.5°	4015.5	3674.4	3391.2	3317.0	3197.5	3127.9	3142.3	3130.6
80°	3219.3	2880.9	2613.9	2404.9	2411.3	2360.6	2339.8	2333.5
82.5°	1897.3	1619.6	1324.6	1151.8	987.1	943.7	812.5	782.6
85°	606.2	429.8	260.6	189.1	128.5	107.7	84.1	76.9
87.5°	80.5	63.3	51.6	49.8	45.2	38.9	25.3	18.1
90°	0.9	0.9	0.9	0.0	0.0	0.0	0.0	0.0
92.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
95°	0.9	0.9	0.9	0.9	0.0	0.0	0.0	0.0
97.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	0.9
100°	1.8	0.9	0.9	0.9	0.9	0.9	0.9	0.9
102.5°	1.8	1.8	1.8	1.8	0.9	0.9	0.9	0.9
105°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8
107.5°	1.8	1.8	1.8	1.8	1.8	1.8	1.8	1.8



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CATALOG NUMBER: VST-F06-LED-E-U-5XQ-7030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
110°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
112.5°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
115°	0.9	0.9	0.9	0.9	0.9	0.9	0.9	1.8
117.5°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
120°	0.9	0.9	0.9	0.9	0.9	1.8	1.8	1.8
122.5°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
125°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
127.5°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
130°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
132.5°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
135°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
137.5°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
140°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
142.5°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
145°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
147.5°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
150°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
152.5°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
155°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
157.5°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
160°	0.9	0.9	0.9	0.9	1.8	1.8	1.8	1.8
162.5°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
165°	0.9	0.9	0.9	1.8	1.8	1.8	1.8	1.8
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)