

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: INVUE

Report Number: P149304

Luminaire Tested: **VXS-F02-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P149304  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33726)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: VXS-F02-LED-E1-SL2-HSS-7030  
Description: VISION SITE SMALL LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2765 lumens  
Efficiency: N/A  
Efficacy: 50.3 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type II - Short - Non-Cutoff  
BUG Rating: B0 - U0 - G1  
  
Input Watts (W): 55  
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: 25 FT

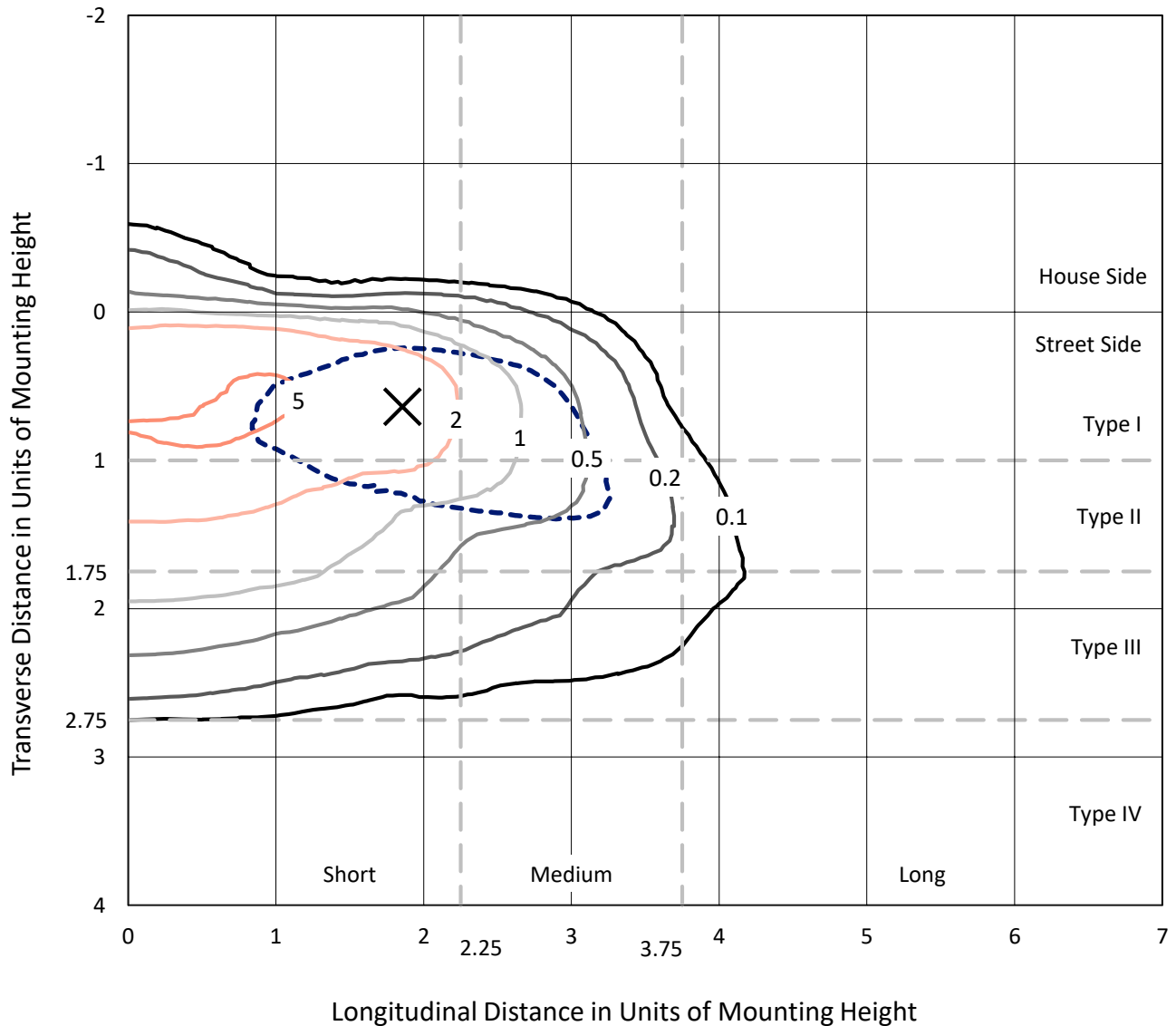


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### Iso-Footcandle Lines of Horizontal Illumination

× Max cd  
 - - - 1/2 Max cd

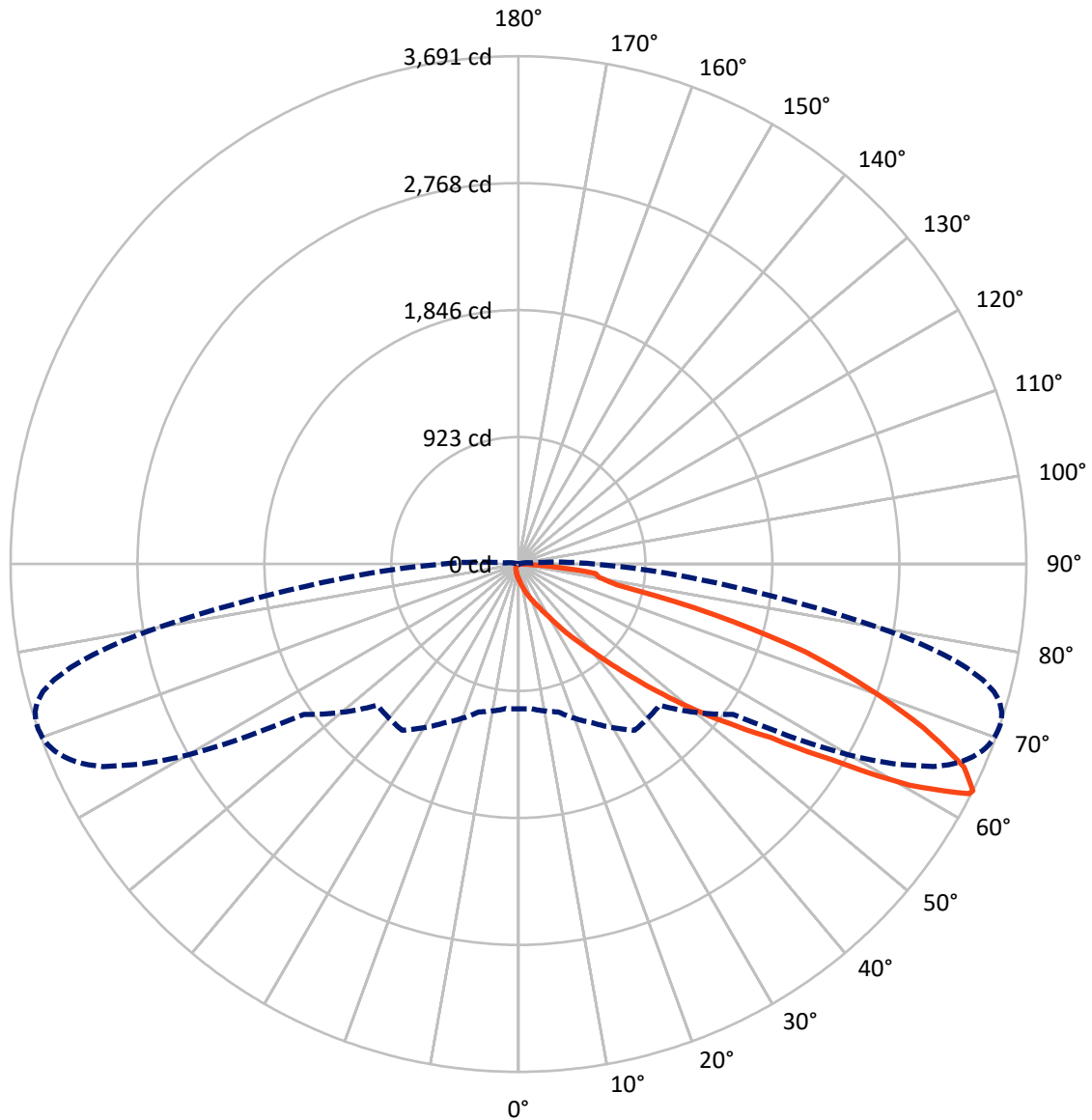


Based on 10 foot mounting height. Maximum calculated value = 5.8 fc  
 Type II - Short - Non-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral    - - - Horizontal Cone Through 63-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	58.7	0.0	58.7
	% Fixture	2.1	0.0	2.1
<b>Street Side</b>	Lumens	2706.3	0.0	2706.3
	% Fixture	97.9	0.0	97.9
<b>Total</b>	Lumens	2765.0	0.0	2765.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	11.7	0.4
10°-20°	45.5	1.6
20°-30°	92.3	3.3
30°-40°	225.6	8.2
40°-50°	504.6	18.2
50°-60°	709.5	25.7
60°-70°	834.3	30.2
70°-80°	301.2	10.9
80°-90°	40.3	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°	2765.0	100.0
0°-180°	2765.0	100.0



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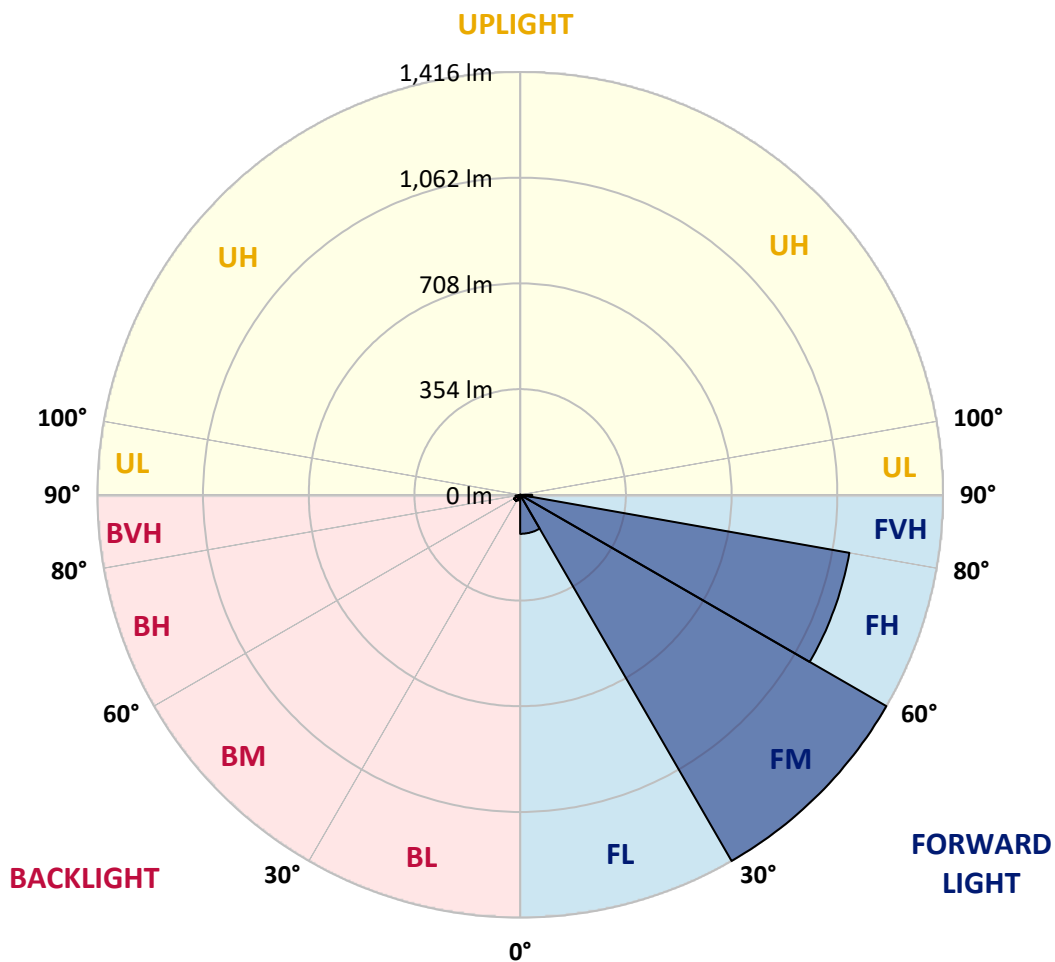
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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	130.7	4.7			
FM (30°-60°)	1416.0	51.2			
FH (60°-80°)	1119.4	40.5			G1/1800
FVH (80°-90°)	40.2	1.5			G1/100
BL (0°-30°)	18.9	0.7	B0/110		
BM (30°-60°)	23.7	0.9	B0/220		
BH (60°-80°)	16.1	0.6	B0/110		G0/110
BVH (80°-90°)	0.1	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-G1**

Type II Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	138.8	140.2	139.3	136.7	133.7	129.6	126.2	126.2	125.7	124.1	124.7
5°	182.0	182.5	180.4	174.4	168.9	160.3	150.8	149.8	148.8	147.3	146.7
7.5°	224.1	226.2	224.1	217.6	206.6	193.6	178.4	176.9	173.9	173.9	171.9
10°	267.5	267.5	265.4	257.8	247.8	229.2	210.2	207.6	204.0	203.1	200.1
12.5°	298.0	298.0	297.1	293.1	285.0	268.4	245.3	242.8	238.2	236.8	233.3
15°	310.2	310.2	310.7	314.2	314.7	307.2	283.0	281.0	276.5	272.4	271.0
17.5°	317.7	317.2	317.2	322.2	331.3	336.3	320.7	318.7	313.7	311.6	306.6
20°	334.3	333.3	330.3	330.3	338.8	356.4	356.4	355.9	350.4	348.8	346.3
22.5°	358.9	357.9	348.8	341.3	345.3	367.5	388.1	387.0	385.1	383.0	381.6
25°	399.1	395.5	380.0	357.9	354.4	378.0	412.2	414.7	416.2	416.2	417.2
27.5°	459.9	455.4	427.8	386.5	371.0	395.1	438.9	443.8	448.4	449.4	453.9
30°	544.4	536.4	496.6	436.3	400.6	420.2	478.0	483.5	490.1	492.1	499.2
32.5°	683.1	678.5	640.4	549.9	473.5	469.5	532.8	539.9	548.4	551.9	560.5
35°	894.2	895.2	864.0	782.7	677.1	621.8	630.9	636.9	639.9	650.5	654.9
37.5°	1037.5	1040.0	1047.0	1014.9	939.5	883.2	812.3	818.9	803.2	804.8	805.3
40°	1116.0	1123.9	1165.2	1196.4	1190.3	1157.6	1100.8	1104.4	1075.2	1068.7	1037.0
42.5°	1168.2	1178.8	1244.6	1341.1	1390.4	1420.0	1406.9	1405.5	1382.8	1374.3	1347.7
45°	1200.8	1210.4	1293.4	1435.6	1549.2	1635.6	1671.4	1675.3	1656.3	1647.8	1625.6
47.5°	1199.4	1210.4	1299.4	1470.8	1638.1	1776.4	1876.9	1882.0	1893.6	1886.0	1887.5
50°	1133.0	1143.5	1233.1	1411.0	1612.0	1840.7	2024.8	2040.8	2059.4	2072.0	2078.0
52.5°	1052.5	1060.1	1139.6	1308.4	1500.4	1814.1	2112.2	2139.8	2167.5	2191.1	2207.7
55°	1022.9	1031.5	1093.8	1234.0	1411.0	1702.5	2153.0	2193.6	2232.8	2271.5	2303.2
57.5°	1038.5	1046.5	1091.3	1198.9	1357.7	1584.9	2164.5	2227.8	2292.1	2354.9	2417.3
60°	1095.9	1104.4	1142.6	1231.5	1343.6	1517.0	2119.3	2224.2	2331.4	2440.9	2543.9
62.5°	1073.2	1076.7	1133.0	1288.8	1444.1	1459.3	1954.8	2101.7	2265.0	2433.9	2600.3
63°	1051.6	1055.5	1112.8	1273.3	1474.8	1450.7	1904.0	2058.9	2231.3	2413.3	2594.2
65°	953.6	954.1	997.8	1124.5	1440.6	1465.8	1677.9	1825.7	2023.7	2241.9	2470.6
67.5°	711.8	708.3	750.5	846.9	1131.0	1466.2	1440.1	1523.1	1660.8	1854.3	2059.4
70°	252.3	246.8	315.1	448.9	704.8	1199.4	1237.5	1243.1	1281.2	1385.8	1514.5
72.5°	82.0	83.4	100.5	164.4	324.8	807.3	1120.4	1103.3	1093.3	1092.7	1109.8
75°	32.6	33.2	40.2	72.8	145.8	389.0	981.2	990.8	994.3	999.3	1004.9
77.5°	15.5	17.1	22.6	40.7	72.3	192.5	702.2	783.1	829.4	865.1	886.7
80°	5.5	6.5	12.5	25.2	33.7	88.5	369.9	446.3	514.2	601.7	677.1
82.5°	0.0	0.0	2.5	17.6	18.5	35.6	151.8	177.9	203.6	263.9	338.8
85°	0.0	0.0	0.0	5.1	5.5	6.0	51.3	61.9	69.3	80.9	93.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.6	3.0	7.6	11.6
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):**

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	123.6	123.1	123.1	122.2	121.7	120.6	120.1	118.7	118.1	118.1	118.1
5°	146.3	144.2	143.2	140.7	139.3	138.8	136.3	135.2	133.7	134.2	131.7
7.5°	171.4	167.9	166.4	162.9	161.9	158.3	157.3	154.8	153.3	150.3	149.3
10°	199.1	194.5	192.0	186.5	185.0	182.5	179.5	176.5	173.9	170.9	169.4
12.5°	230.7	226.7	224.7	217.1	213.7	210.2	206.1	202.1	198.0	195.5	192.0
15°	267.9	261.3	259.4	252.3	246.3	241.8	236.3	231.2	228.2	223.2	219.7
17.5°	304.7	298.0	296.6	286.0	279.5	276.5	270.5	263.9	258.3	253.4	247.8
20°	341.3	336.8	332.7	322.7	315.6	310.7	302.6	296.1	291.5	284.5	277.5
22.5°	378.0	373.5	370.5	359.9	353.4	346.3	339.3	332.2	325.7	317.2	309.1
25°	415.8	412.6	411.2	401.7	395.5	389.0	382.1	374.0	365.9	356.4	347.9
27.5°	454.9	456.0	452.8	450.9	444.4	439.8	428.8	423.2	417.2	405.7	395.1
30°	504.7	507.7	506.6	508.2	504.1	501.1	492.6	485.6	478.5	467.5	455.4
32.5°	567.5	571.5	573.6	579.1	577.1	576.1	573.6	563.5	558.4	539.4	534.3
35°	664.6	662.5	671.1	675.5	673.6	672.5	669.5	664.0	658.0	644.5	631.8
37.5°	790.7	792.7	795.8	786.6	780.6	780.1	771.1	765.6	757.0	742.0	726.8
40°	1021.9	1009.3	995.2	957.1	940.5	930.9	904.2	896.8	882.2	861.6	846.0
42.5°	1322.5	1309.9	1267.7	1203.8	1169.7	1122.5	1100.8	1074.2	1053.6	1019.9	1001.8
45°	1621.0	1584.9	1579.9	1505.5	1463.2	1400.9	1362.2	1317.5	1270.8	1226.5	1194.3
47.5°	1873.0	1864.9	1840.2	1795.0	1755.8	1703.5	1653.8	1584.9	1536.7	1473.8	1416.0
50°	2074.5	2074.0	2065.0	2038.8	2006.1	1963.9	1920.2	1861.9	1807.0	1730.2	1668.3
52.5°	2225.3	2233.4	2236.4	2228.3	2215.8	2178.5	2156.4	2107.7	2061.5	1996.1	1929.2
55°	2335.9	2365.5	2380.6	2397.7	2394.2	2381.1	2380.1	2348.4	2327.4	2275.5	2228.3
57.5°	2472.6	2521.3	2568.1	2651.1	2654.1	2683.2	2698.3	2713.4	2717.4	2696.8	2681.2
60°	2646.5	2746.0	2834.5	3008.0	3053.2	3124.6	3170.8	3221.0	3263.8	3267.3	3266.3
62.5°	2769.1	2922.5	3065.3	3322.6	3410.6	3493.0	3554.8	3603.6	3633.3	3663.4	3677.5
63°	2772.6	2940.6	3092.3	3357.8	3450.3	3528.7	3587.5	3632.7	3663.9	3682.0	3691.1
65°	2687.8	2891.3	3072.2	3336.7	3423.6	3502.6	3533.3	3562.9	3577.9	3585.0	3558.3
67.5°	2278.0	2477.1	2688.2	2983.8	3058.2	3152.7	3177.8	3193.0	3200.0	3198.4	3175.9
70°	1703.5	1870.4	2105.2	2442.9	2541.5	2634.0	2691.3	2715.9	2723.9	2721.5	2687.8
72.5°	1189.3	1287.4	1480.8	1856.8	1991.1	2109.6	2180.5	2217.2	2224.8	2209.7	2178.5
75°	998.8	1003.8	1047.6	1253.2	1378.8	1505.5	1585.4	1608.5	1593.5	1547.7	1468.3
77.5°	891.7	902.8	902.8	933.5	958.0	993.3	1000.8	944.5	879.2	794.7	726.3
80°	748.0	786.6	813.8	836.5	839.0	831.9	813.3	781.7	731.4	667.0	595.6
82.5°	454.4	530.8	562.0	678.5	735.9	774.6	771.6	729.3	691.2	624.4	563.5
85°	114.6	123.6	134.2	174.4	195.5	238.8	265.9	278.4	283.0	259.9	235.2
87.5°	11.1	7.6	12.5	9.5	13.6	10.1	13.6	12.5	15.5	16.6	18.1
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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**CANDELA DISTRIBUTION (continued):**

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	117.1	116.6	116.2	115.6	115.1	114.6	113.6	113.6	112.6	112.1	111.6
5°	130.2	129.2	128.7	127.7	126.2	125.2	123.6	121.7	120.1	119.6	118.7
7.5°	146.7	144.2	143.2	141.8	139.7	136.7	134.7	133.2	130.7	129.2	126.2
10°	165.4	162.9	159.9	156.8	153.8	150.3	147.8	145.8	141.8	139.7	136.3
12.5°	189.0	184.5	180.9	176.9	173.0	168.9	165.9	159.9	156.4	151.8	148.8
15°	213.2	209.1	205.1	200.1	194.0	187.5	184.5	179.0	174.4	167.4	163.3
17.5°	242.3	234.7	228.7	222.7	217.1	211.1	205.1	196.6	190.1	183.9	176.0
20°	271.0	261.9	255.3	247.4	239.3	229.7	222.7	216.7	207.6	199.6	191.0
22.5°	301.6	292.5	282.0	274.0	262.9	255.3	245.8	235.8	226.7	216.2	205.6
25°	338.8	329.2	317.2	306.6	294.1	283.5	271.9	260.4	249.3	237.3	223.7
27.5°	384.6	374.5	361.5	348.8	332.2	319.2	308.1	292.5	278.4	263.4	247.8
30°	442.4	431.3	415.2	397.1	380.5	365.9	350.4	329.7	314.2	296.1	276.0
32.5°	517.7	504.7	483.1	466.0	445.4	426.2	404.7	384.0	361.9	338.3	315.1
35°	612.7	600.7	575.5	550.5	527.8	505.2	478.0	454.4	423.2	394.6	365.0
37.5°	711.3	689.6	666.5	639.4	611.2	584.1	550.9	518.2	482.6	451.4	414.2
40°	823.8	797.7	778.7	749.4	709.7	671.1	640.4	599.7	554.9	513.3	469.5
42.5°	978.1	949.0	914.8	870.6	842.0	796.7	757.0	708.7	649.9	603.2	550.5
45°	1156.6	1116.9	1083.7	1041.0	1006.3	950.1	903.8	839.5	780.6	719.3	654.9
47.5°	1360.2	1311.0	1262.7	1220.4	1165.2	1109.8	1051.1	982.7	907.3	840.0	763.5
50°	1594.0	1524.0	1457.2	1402.9	1327.0	1263.2	1199.4	1122.5	1039.0	961.6	874.6
52.5°	1853.8	1772.8	1684.5	1600.9	1513.1	1431.1	1354.2	1265.7	1172.7	1078.2	981.2
55°	2167.5	2106.6	2002.6	1896.6	1779.0	1669.3	1570.4	1460.7	1347.7	1223.5	1121.5
57.5°	2658.5	2628.9	2542.0	2435.9	2282.6	2149.4	1981.5	1847.3	1683.4	1512.5	1380.8
60°	3324.1	3287.5	3238.7	3152.7	3031.1	2850.1	2665.1	2456.5	2207.2	1970.5	1745.7
62.5°	3679.0	3665.9	3626.2	3566.9	3453.3	3310.6	3124.0	2894.8	2613.4	2325.8	2039.3
63°	3689.5	3673.0	3638.8	3578.4	3478.4	3340.2	3157.2	2934.5	2659.1	2366.0	2073.5
65°	3546.7	3540.2	3505.6	3439.7	3371.4	3265.8	3124.0	2932.5	2701.3	2424.4	2133.3
67.5°	3145.7	3126.0	3072.7	3052.6	3004.9	2931.5	2823.4	2691.7	2526.4	2308.7	2057.4
70°	2660.6	2631.4	2564.6	2528.9	2470.6	2424.4	2358.4	2264.5	2162.5	2010.7	1823.1
72.5°	2146.3	2086.0	2024.8	1931.7	1850.3	1767.9	1695.0	1628.6	1516.6	1455.2	1313.0
75°	1393.9	1284.4	1179.3	1038.5	911.8	799.7	690.7	635.3	520.2	473.5	406.6
77.5°	661.6	600.2	517.7	453.9	372.4	304.1	248.3	186.5	146.3	114.6	87.5
80°	533.8	482.1	432.3	374.5	313.2	249.8	191.5	143.2	101.6	70.4	49.7
82.5°	476.1	419.7	358.4	318.7	277.0	226.7	186.0	151.8	112.1	82.0	55.8
85°	185.0	155.9	120.1	98.0	76.4	62.8	56.8	39.2	30.7	24.1	18.5
87.5°	16.1	13.1	10.6	7.0	7.6	4.0	4.6	3.0	2.5	2.5	2.0
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: VXS-F02-LED-E1-SL2-HSS-7030

**CANDELA DISTRIBUTION (continued):**

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	111.1	110.6	110.1	109.1	109.1	108.1	107.6	107.0	104.6	99.1	94.5
5°	116.6	115.6	114.6	113.1	112.1	110.6	109.5	108.1	102.6	92.0	82.9
7.5°	124.7	122.7	121.1	118.1	116.6	114.6	113.1	110.6	101.6	85.5	72.8
10°	134.2	130.7	128.2	124.7	121.7	119.2	116.6	113.1	100.5	78.4	63.8
12.5°	145.8	141.8	136.7	132.7	128.7	125.2	121.7	117.1	99.1	72.3	56.8
15°	157.3	151.3	147.8	142.3	136.7	131.7	126.6	122.7	99.5	65.8	50.8
17.5°	170.4	164.4	156.8	150.8	144.8	138.2	132.2	124.1	97.0	60.8	46.2
20°	183.0	174.4	167.4	159.9	151.3	143.2	135.8	128.7	95.0	55.8	42.2
22.5°	196.6	186.5	177.4	167.9	157.3	148.3	139.3	130.2	91.5	51.3	38.8
25°	213.2	201.6	188.5	176.9	165.9	154.8	143.2	132.2	88.0	47.3	36.2
27.5°	233.3	218.1	205.1	190.5	174.9	160.8	148.3	136.3	84.5	44.2	33.7
30°	258.9	241.2	222.7	204.0	187.5	171.4	153.8	138.8	80.9	41.2	31.2
32.5°	293.1	271.0	248.3	226.7	204.6	183.9	165.4	145.8	79.0	38.8	28.6
35°	338.3	309.6	282.0	254.8	228.2	203.1	179.0	156.8	79.0	35.6	25.6
37.5°	381.0	347.9	312.6	279.0	247.4	218.1	189.5	162.9	74.9	33.2	23.1
40°	427.3	387.6	346.3	306.6	268.4	232.2	199.6	168.9	71.4	30.2	20.6
42.5°	498.1	447.9	394.1	347.9	302.1	257.4	216.7	180.4	66.8	27.2	18.1
45°	591.1	527.3	463.9	407.7	349.3	294.6	246.3	201.6	65.8	24.7	15.5
47.5°	690.7	615.2	540.8	469.0	400.6	336.8	279.0	225.2	65.8	22.1	13.6
50°	789.6	695.2	615.8	532.3	455.4	380.0	311.2	249.8	66.3	20.1	11.1
52.5°	879.2	778.1	689.1	592.6	507.7	420.2	345.3	274.0	65.4	17.6	9.0
55°	1003.3	884.7	781.7	675.0	575.5	477.0	392.1	310.2	65.8	15.5	7.6
57.5°	1232.0	1092.7	968.6	828.9	714.3	587.2	484.0	384.6	71.9	13.1	5.5
60°	1560.3	1379.3	1204.9	1034.5	888.7	737.4	603.7	486.5	84.5	10.6	4.0
62.5°	1780.9	1544.1	1336.1	1148.1	978.7	820.3	674.6	541.3	93.0	8.5	2.5
63°	1803.5	1558.8	1349.6	1155.6	982.7	824.4	677.6	545.4	93.5	8.1	2.5
65°	1846.3	1583.9	1357.2	1157.1	978.7	818.9	675.5	544.9	94.5	6.5	2.0
67.5°	1797.5	1545.2	1313.5	1113.9	943.5	786.1	650.5	524.8	94.0	4.6	1.6
70°	1607.6	1398.4	1194.8	1008.8	854.0	711.8	592.1	478.5	86.4	3.0	1.0
72.5°	1180.2	1038.0	880.2	745.9	643.4	534.3	456.0	359.4	66.8	2.0	0.5
75°	349.8	318.7	267.9	236.3	208.6	172.4	153.3	119.6	34.2	1.0	0.0
77.5°	69.8	63.3	56.8	51.8	48.8	41.8	39.7	32.6	14.1	0.5	0.0
80°	36.7	30.2	25.6	22.6	19.6	16.1	13.6	11.1	2.5	0.0	0.0
82.5°	35.2	23.6	17.1	14.1	12.0	9.5	7.6	5.5	1.6	0.0	0.0
85°	13.1	10.1	7.6	6.0	5.1	4.6	3.5	3.0	0.0	0.0	0.0
87.5°	2.0	1.6	1.6	1.0	1.0	0.5	0.5	0.5	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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**CANDELA DISTRIBUTION (continued):**

	125°	135°	145°	155°	165°	175°	180°
0°	106.0	106.0	106.0	106.0	106.0	106.0	106.0
2.5°	89.9	85.9	83.9	81.5	81.5	80.9	82.0
5°	74.9	69.3	65.4	62.3	62.8	61.3	61.9
7.5°	63.3	57.8	54.3	52.2	51.8	51.3	51.3
10°	54.8	49.7	46.7	45.3	44.8	44.8	44.8
12.5°	48.8	43.7	41.2	40.2	40.2	39.7	39.7
15°	43.7	39.7	37.2	36.2	36.2	35.6	36.2
17.5°	39.7	35.6	33.7	32.6	32.6	32.1	32.1
20°	36.2	32.6	30.7	29.1	29.1	28.6	29.1
22.5°	33.2	29.6	27.2	26.1	25.6	25.2	25.6
25°	30.2	26.6	24.1	22.6	22.1	22.1	21.7
27.5°	27.7	24.1	21.1	19.6	19.1	19.1	18.5
30°	25.2	21.1	18.1	16.6	16.1	16.1	16.1
32.5°	22.6	18.1	15.5	14.1	13.6	13.6	13.6
35°	20.1	15.5	13.1	11.6	11.1	11.1	11.1
37.5°	17.1	13.1	10.1	9.0	8.5	8.1	8.1
40°	14.6	10.1	7.6	6.5	5.5	5.5	5.5
42.5°	12.0	8.1	5.5	4.0	3.5	3.0	3.5
45°	10.1	6.0	3.5	2.0	1.6	1.6	1.6
47.5°	8.1	4.0	1.6	0.5	0.5	0.5	0.5
50°	6.0	2.5	0.5	0.0	0.0	0.5	0.5
52.5°	4.6	1.6	0.0	0.0	0.0	0.0	0.0
55°	2.5	0.5	0.0	0.0	0.0	0.0	0.0
57.5°	1.6	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.5	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.5	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)