

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: P149863

Luminaire Tested: **VXS-F01-LED-E1-SL2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149863
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-F01-LED-E1-SL2-8030
Description: VISION SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2128.6 lumens
Efficiency: N/A
Efficacy: 82.2 lumens/watt
Luminous Opening: Rectangular (W 0.17' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B1 - U0 - G1

Input Watts (W): 25.9
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



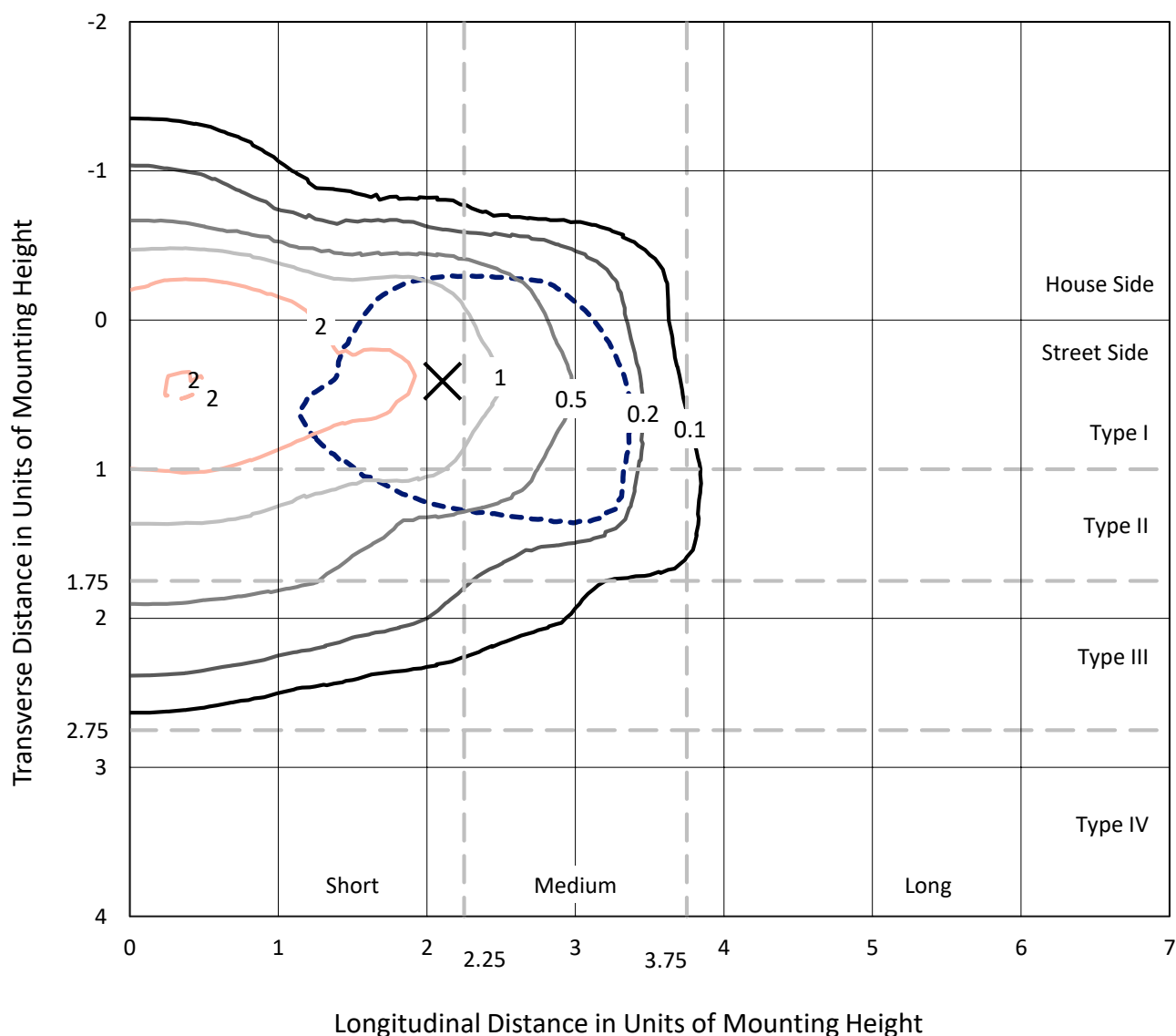
REPORT NUMBER: P149863

CATALOG NUMBER: VXS-F01-LED-E1-SL2-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

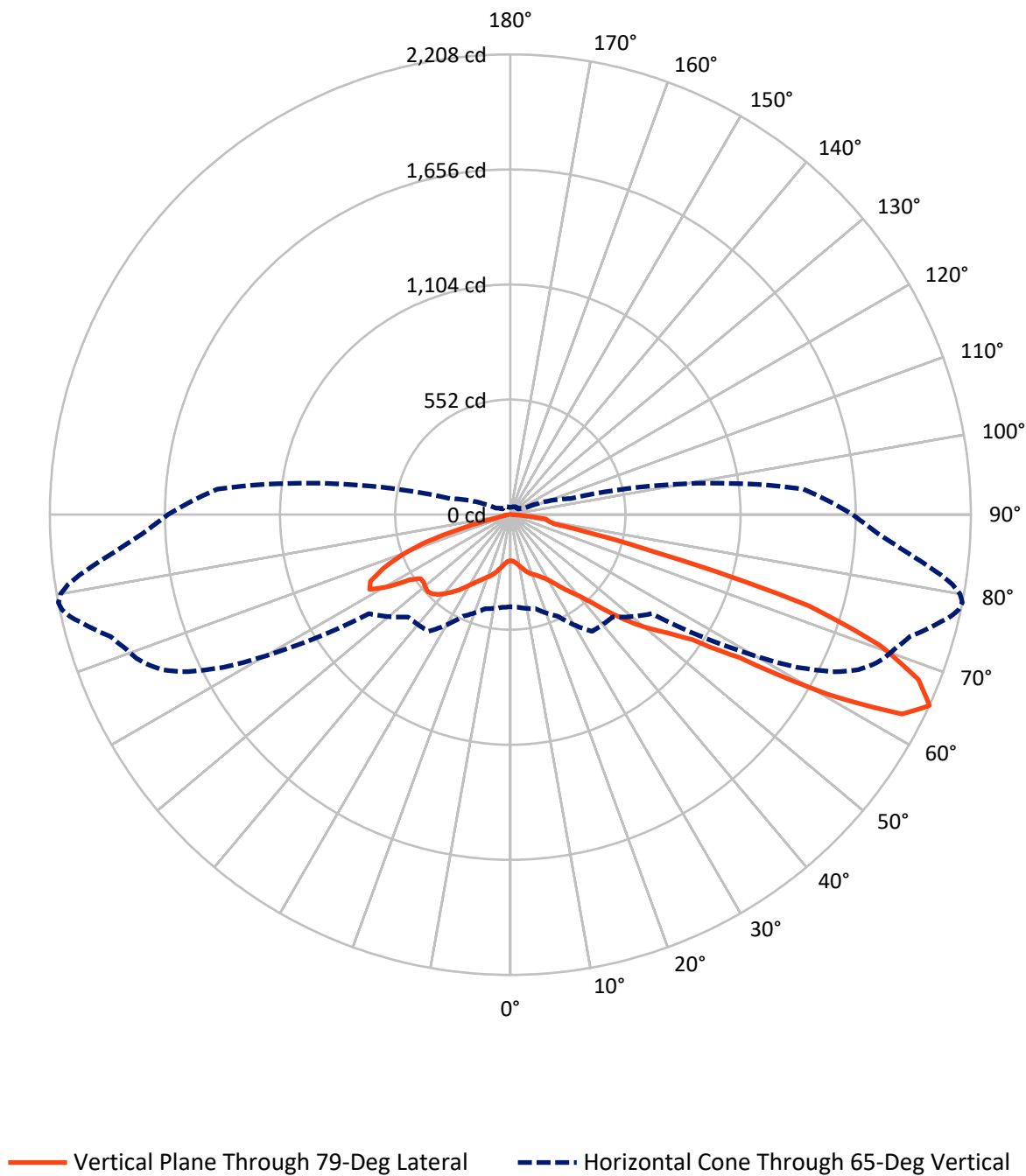


Based on 10 foot mounting height. Maximum calculated value = 2.9 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P149863

CATALOG NUMBER: VXS-F01-LED-E1-SL2-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P149863

CATALOG NUMBER: VXS-F01-LED-E1-SL2-8030

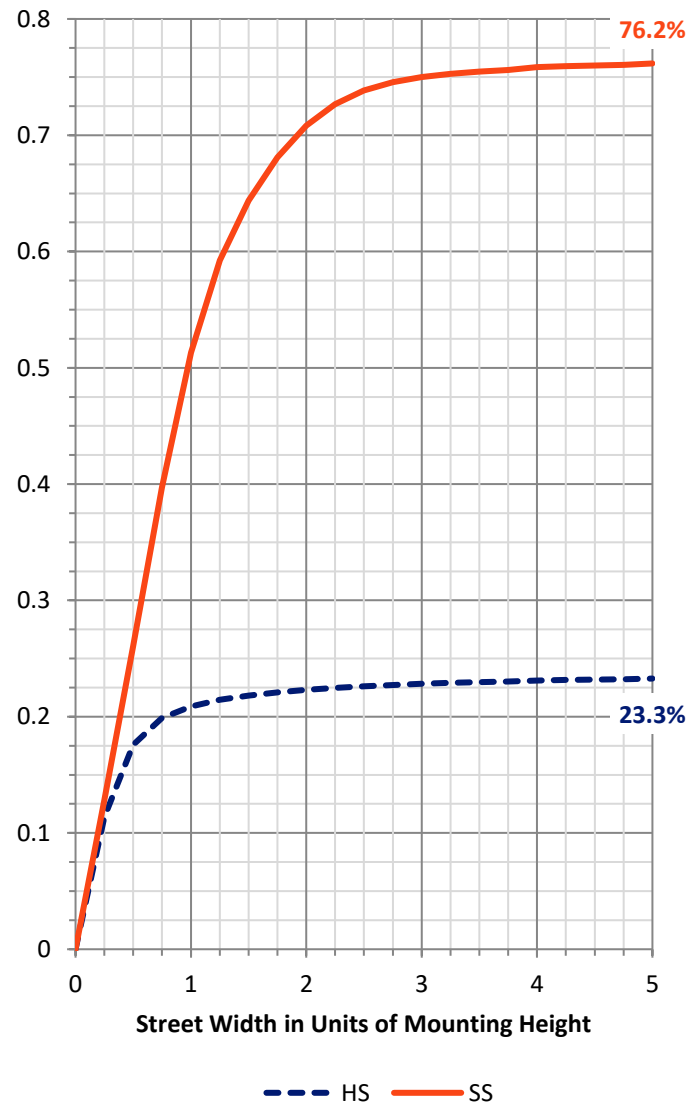
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	503.2	0.0	503.2
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	1625.4	0.0	1625.4
	% Fixture	76.4	0.0	76.4
Total	Lumens	2128.6	0.0	2128.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	22.0	1.0
10°-20°	72.0	3.4
20°-30°	124.4	5.8
30°-40°	205.9	9.7
40°-50°	349.2	16.4
50°-60°	464.0	21.8
60°-70°	599.3	28.2
70°-80°	251.4	11.8
80°-90°	40.4	1.9
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°	2128.6	100.0
0°-180°	2128.6	100.0

Coefficient of Utilization



REPORT NUMBER: P149863

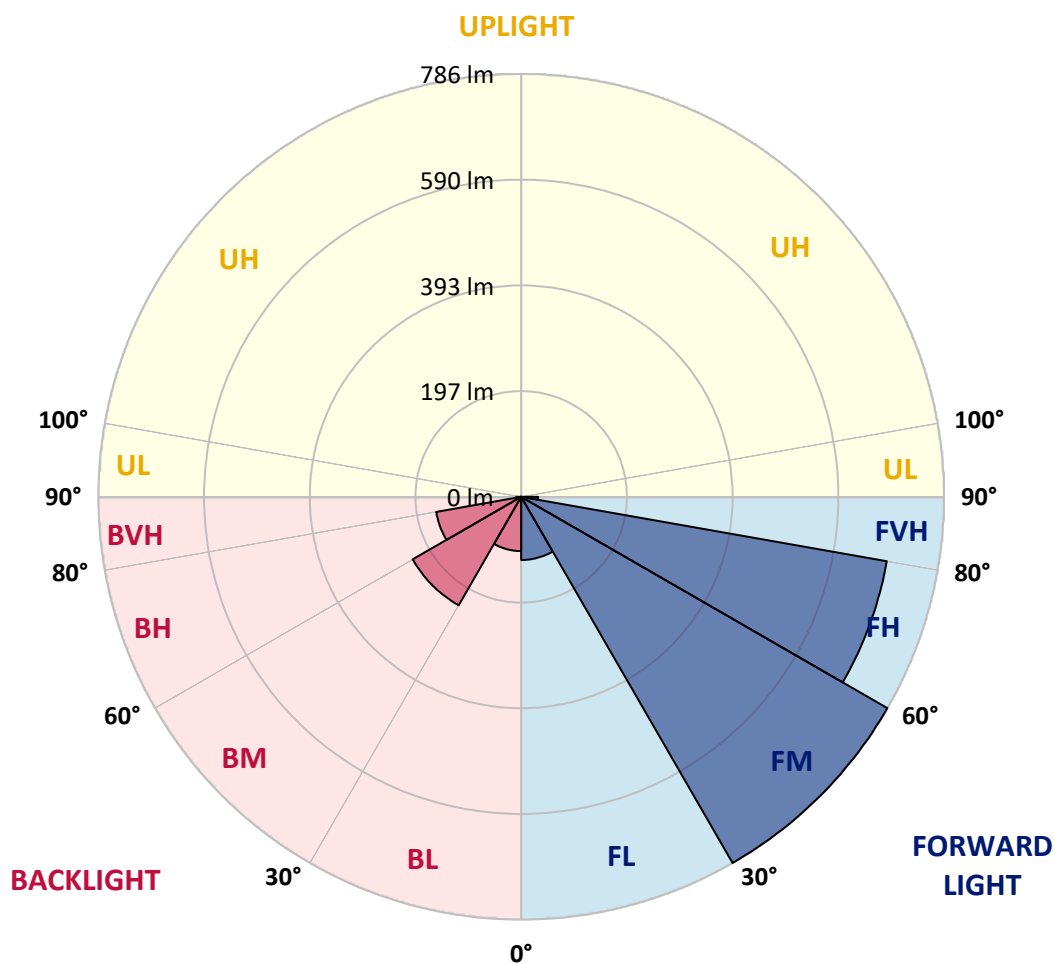
CATALOG NUMBER: VXS-F01-LED-E1-SL2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	117.5	5.5			
FM	(30°-60°)	786.2	36.9			
FH	(60°-80°)	690.2	32.4			G1/1800
FVH	(80°-90°)	31.6	1.5			G1/100
BL	(0°-30°)	101.0	4.7	B0/110		
BM	(30°-60°)	232.9	10.9	B1/1000		
BH	(60°-80°)	160.5	7.5	B1/500		G1/500
BVH	(80°-90°)	8.8	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type II Short



REPORT NUMBER: P149863

CATALOG NUMBER: VXS-F01-LED-E1-SL2-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6
2.5°	220.8	221.6	221.1	221.6	222.1	222.3	222.7	222.5	222.5	222.7	222.3
5°	220.8	220.8	221.6	222.7	223.2	224.6	226.2	226.0	226.2	226.0	226.4
7.5°	225.5	225.3	226.0	227.4	227.9	229.9	232.7	233.2	233.7	233.7	234.3
10°	233.7	233.4	234.1	234.8	235.5	237.1	241.0	242.7	242.9	243.2	244.0
12.5°	243.8	243.6	242.7	242.7	242.5	245.5	250.8	253.9	254.3	255.2	256.0
15°	251.1	250.4	249.0	248.1	249.2	254.1	262.0	265.5	265.9	266.6	268.5
17.5°	258.0	257.3	254.3	252.0	253.6	261.6	272.2	276.0	276.8	277.5	279.6
20°	267.8	267.4	262.9	257.3	256.9	267.0	280.1	285.0	285.7	286.6	288.7
22.5°	282.6	280.5	275.4	265.0	259.9	270.4	285.7	292.4	293.4	294.3	297.0
25°	301.2	300.3	291.5	275.4	264.8	273.6	291.7	300.1	301.5	302.6	306.3
27.5°	320.5	319.1	309.5	288.7	273.4	280.1	301.2	310.8	312.6	314.5	317.9
30°	337.7	337.2	329.3	306.5	287.3	292.4	316.6	328.2	330.3	332.5	335.9
32.5°	378.1	378.3	370.2	346.9	320.9	314.7	338.7	356.1	357.0	359.8	365.6
35°	455.4	456.4	453.4	435.0	405.7	380.0	382.3	399.5	400.4	402.7	408.3
37.5°	507.3	509.1	518.3	524.1	509.3	497.5	468.0	461.2	462.0	460.5	459.4
40°	535.8	538.5	563.0	593.2	609.4	609.6	596.9	567.2	555.8	552.5	538.5
42.5°	552.0	556.7	591.3	642.9	689.5	721.6	729.5	696.5	688.2	673.3	646.5
45°	562.7	568.3	609.2	679.8	748.5	803.1	844.2	829.5	824.0	814.9	790.4
47.5°	560.8	565.3	607.8	692.3	779.4	857.0	929.9	945.0	938.2	936.0	919.3
50°	526.9	530.9	574.1	661.2	762.5	877.4	984.2	1026.9	1026.9	1031.4	1026.3
52.5°	490.8	494.0	533.3	611.5	707.7	857.4	1014.4	1085.3	1094.6	1102.3	1114.3
55°	477.0	480.9	510.7	577.6	660.9	800.3	1024.7	1128.9	1146.1	1159.2	1186.5
57.5°	483.5	487.5	508.6	559.3	633.6	742.1	1025.2	1187.7	1220.9	1247.7	1303.1
60°	511.6	515.3	533.0	576.2	626.3	708.4	1005.4	1281.3	1334.2	1384.5	1476.9
62.5°	498.7	503.3	529.0	604.4	680.0	682.8	934.1	1353.8	1439.0	1513.1	1660.1
65°	441.8	446.6	466.8	537.2	683.3	694.0	828.4	1355.1	1461.0	1561.1	1719.8
67.5°	335.3	337.2	353.3	409.6	546.4	706.2	719.7	1194.7	1295.4	1407.2	1570.9
70°	171.4	174.6	179.3	226.2	351.8	583.6	618.4	880.4	1008.9	1124.2	1321.0
72.5°	59.5	60.6	65.3	86.4	171.4	383.0	541.3	603.4	680.9	788.9	1016.8
75°	35.8	35.8	37.4	43.6	78.2	199.5	481.7	492.8	503.3	539.5	688.6
77.5°	28.3	28.8	28.8	29.9	43.4	102.4	365.8	458.2	459.6	463.1	488.2
80°	20.2	21.1	23.0	23.9	28.1	56.2	205.3	402.3	429.6	442.9	461.2
82.5°	15.1	16.1	19.5	20.6	21.9	31.4	92.2	277.5	327.5	354.0	418.5
85°	6.7	7.9	13.3	14.6	15.3	16.7	43.2	79.0	90.8	102.0	134.5
87.5°	1.1	1.1	2.1	3.0	4.5	4.1	9.5	13.5	13.7	16.1	17.9
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: P149863

CATALOG NUMBER: VXS-F01-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6
2.5°	222.3	222.3	222.3	222.1	222.3	222.3	222.3	222.3	222.5	222.5	222.5
5°	227.2	226.6	226.9	226.9	226.9	226.6	227.2	226.9	227.2	227.9	227.6
7.5°	234.3	234.8	235.0	235.2	235.2	235.2	235.5	236.0	236.0	236.7	236.5
10°	245.0	244.8	245.0	245.7	246.4	246.6	247.4	247.2	247.6	248.5	249.4
12.5°	256.4	256.9	257.5	258.2	259.4	259.7	260.3	260.6	262.0	262.0	262.9
15°	269.2	269.4	270.8	271.0	272.4	272.8	274.1	274.5	276.2	276.4	277.3
17.5°	280.8	281.2	282.0	282.6	284.2	285.0	285.9	286.8	288.2	288.7	290.3
20°	290.1	291.0	291.2	292.6	294.0	294.9	295.9	296.8	298.2	298.9	300.5
22.5°	298.4	299.4	300.1	301.2	302.2	303.5	304.0	305.6	307.0	308.2	309.5
25°	307.5	308.9	309.5	311.7	312.3	313.8	314.9	316.6	318.4	319.8	321.7
27.5°	320.3	322.4	323.3	325.6	327.3	328.0	329.7	332.1	333.8	335.3	337.2
30°	337.9	341.9	342.6	344.1	347.3	347.7	349.9	351.8	354.4	356.1	357.6
32.5°	365.3	370.2	370.7	372.5	375.0	376.0	377.8	380.0	383.9	384.6	387.2
35°	407.4	409.4	411.3	412.0	414.1	415.2	416.7	419.0	422.9	422.5	425.3
37.5°	457.7	458.4	458.7	456.4	456.8	454.7	457.3	457.7	459.2	460.3	463.1
40°	529.7	522.6	521.7	516.1	510.5	507.5	506.3	501.7	502.8	503.3	505.6
42.5°	634.9	621.0	609.4	601.6	587.8	581.0	572.0	564.9	559.3	561.3	562.3
45°	768.3	748.3	729.7	705.6	687.7	674.9	658.9	644.5	637.9	634.9	638.7
47.5°	901.3	883.7	861.9	837.0	808.7	787.6	760.8	737.4	721.1	715.1	718.3
50°	1016.3	1000.0	983.5	968.9	936.0	913.0	876.5	846.1	820.5	807.6	804.0
52.5°	1111.7	1103.2	1094.3	1082.1	1055.5	1032.5	1003.5	973.6	939.7	913.2	904.1
55°	1197.0	1202.1	1197.7	1197.9	1187.5	1172.8	1148.2	1125.9	1102.3	1072.2	1059.7
57.5°	1321.2	1351.4	1357.5	1372.5	1380.0	1387.9	1394.8	1381.7	1375.5	1353.3	1353.6
60°	1517.0	1561.1	1599.5	1634.3	1662.9	1690.8	1720.0	1733.1	1747.5	1754.2	1777.1
62.5°	1725.4	1767.4	1824.6	1871.2	1897.4	1933.7	1965.5	1986.1	2011.5	2038.4	2073.5
65°	1776.9	1827.6	1863.5	1894.6	1920.6	1939.9	1957.4	1982.0	2003.1	2045.8	2087.2
67.5°	1644.8	1685.2	1718.1	1748.8	1769.0	1785.3	1800.8	1817.1	1853.4	1892.1	1933.7
70°	1411.8	1460.6	1515.1	1554.9	1564.9	1578.8	1593.7	1614.8	1633.0	1673.6	1705.2
72.5°	1134.3	1204.5	1250.7	1305.7	1317.5	1338.7	1347.0	1363.5	1366.7	1388.8	1397.2
75°	790.6	870.9	917.4	957.8	965.7	954.1	958.8	900.4	885.6	873.5	863.7
77.5°	521.9	543.4	550.9	544.4	513.3	488.9	462.9	437.3	440.1	419.5	383.2
80°	464.0	468.9	462.2	455.6	437.8	412.2	388.8	364.9	353.1	340.5	321.9
82.5°	451.5	470.3	472.4	464.5	450.4	422.5	394.1	358.5	328.4	300.5	272.2
85°	151.0	183.7	198.3	212.0	216.3	221.1	204.4	181.7	154.2	135.9	106.3
87.5°	19.3	23.9	27.7	23.7	27.7	32.5	23.4	26.2	26.4	16.5	12.3
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: P149863

CATALOG NUMBER: VXS-F01-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6
2.5°	222.7	222.5	222.5	222.5	222.3	222.5	222.5	222.5	222.5	222.5	222.3
5°	227.9	227.9	228.5	228.8	228.3	228.1	228.3	228.5	228.5	228.3	228.5
7.5°	237.3	237.6	238.0	238.8	238.2	238.5	238.8	238.5	239.2	239.5	239.2
10°	249.4	249.8	251.1	251.3	251.1	252.0	252.2	251.7	252.2	252.2	253.2
12.5°	263.3	263.8	265.2	265.7	266.1	266.4	267.0	267.4	268.0	268.5	269.2
15°	278.4	279.0	279.9	281.5	282.0	282.4	282.9	284.2	284.5	285.4	286.1
17.5°	291.2	291.9	293.4	294.5	295.2	296.4	296.8	298.4	298.9	300.3	301.5
20°	301.5	302.6	303.7	305.2	306.3	307.8	308.2	309.8	310.8	311.4	312.8
22.5°	310.8	312.1	313.8	315.4	316.3	318.1	318.9	319.6	321.7	322.6	323.9
25°	322.8	324.2	326.1	328.2	329.1	331.4	332.1	333.3	335.5	336.5	338.7
27.5°	339.3	341.1	342.6	344.7	345.8	347.5	349.0	350.5	352.5	354.0	356.3
30°	360.0	361.3	363.7	365.3	367.2	369.5	371.4	372.7	373.9	376.0	378.5
32.5°	390.4	390.7	391.3	395.2	397.1	399.0	401.6	402.7	404.6	406.6	409.4
35°	428.3	430.4	432.0	433.8	436.0	438.0	439.0	442.4	444.0	446.8	449.6
37.5°	465.9	466.1	469.8	471.0	472.8	474.9	478.2	481.7	485.9	488.6	493.1
40°	506.3	508.2	512.7	515.1	517.4	522.6	525.1	530.7	537.6	541.6	549.0
42.5°	564.9	567.6	576.0	579.7	585.3	593.6	599.0	606.6	609.4	619.0	622.4
45°	641.5	650.1	662.2	670.1	680.0	689.1	693.7	697.2	701.3	708.8	707.9
47.5°	724.4	735.5	749.0	765.3	771.7	782.4	788.5	795.2	791.5	789.6	787.8
50°	809.3	822.4	840.3	854.9	864.9	871.4	876.5	875.5	867.7	863.5	851.9
52.5°	903.9	911.6	928.5	941.0	947.0	948.5	947.4	940.3	933.0	919.7	906.0
55°	1048.8	1045.3	1052.0	1057.9	1056.1	1062.5	1045.8	1039.3	1020.9	1003.7	985.4
57.5°	1343.3	1348.0	1310.4	1293.4	1290.4	1296.4	1266.9	1263.2	1218.9	1213.3	1182.4
60°	1773.9	1796.7	1767.2	1750.7	1706.1	1691.4	1658.4	1644.8	1602.3	1567.9	1524.5
62.5°	2097.6	2118.3	2130.6	2107.2	2081.1	2042.8	1992.8	1937.6	1892.5	1839.9	1793.9
65°	2126.9	2168.7	2197.0	2208.0	2189.6	2147.6	2086.0	2016.4	1947.4	1881.1	1823.1
67.5°	1990.2	2027.5	2071.4	2110.7	2113.0	2085.6	2033.1	1962.3	1882.6	1800.8	1732.7
70°	1755.0	1802.0	1840.3	1881.7	1910.5	1894.6	1868.4	1803.4	1720.7	1657.1	1578.8
72.5°	1427.4	1447.2	1456.4	1497.1	1497.5	1468.7	1450.2	1414.1	1347.5	1302.4	1242.7
75°	833.6	790.1	743.8	703.7	671.0	657.2	596.4	586.2	545.3	520.0	482.8
77.5°	343.7	305.0	255.0	213.5	172.3	153.8	126.8	114.9	99.6	92.8	88.5
80°	294.7	258.0	220.4	184.4	152.3	120.3	93.6	72.6	57.1	48.5	45.1
82.5°	240.6	218.5	192.3	172.7	147.7	123.8	104.6	81.0	60.6	44.6	34.1
85°	86.8	71.3	57.4	52.7	42.1	34.6	29.0	24.9	20.4	16.3	14.4
87.5°	9.7	9.3	5.4	5.1	5.8	4.1	4.9	4.5	3.7	3.2	3.5
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: P149863

CATALOG NUMBER: VXS-F01-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6	221.6
2.5°	222.3	222.3	222.5	222.5	222.7	223.0	223.4	223.2	223.2	223.4	223.4
5°	228.5	229.2	229.0	229.0	229.0	229.2	229.4	228.5	227.6	226.6	226.2
7.5°	239.5	239.9	240.4	239.9	240.4	240.1	239.7	237.1	234.1	230.4	227.9
10°	253.6	253.6	254.1	253.9	254.8	254.1	252.6	246.8	240.4	232.4	226.6
12.5°	268.9	270.6	269.8	270.1	271.9	270.1	266.8	258.2	246.6	233.9	223.6
15°	287.0	287.8	288.2	287.6	288.7	287.0	281.2	267.6	250.6	232.7	217.6
17.5°	302.0	302.2	302.4	302.8	304.5	302.6	292.6	274.1	251.5	227.4	207.4
20°	313.6	314.7	315.6	315.6	317.9	315.1	302.0	277.3	248.5	218.5	194.4
22.5°	325.6	326.5	327.7	328.0	331.0	328.2	309.5	276.6	240.6	206.0	179.3
25°	340.5	341.5	342.3	343.5	347.7	343.7	317.2	273.8	229.7	191.1	163.0
27.5°	357.6	359.8	360.4	362.3	367.2	361.1	323.7	269.6	217.6	174.0	145.8
30°	380.6	383.2	384.1	386.7	393.5	380.2	327.5	262.5	202.3	156.6	127.5
32.5°	411.5	415.0	417.8	420.6	428.3	399.3	328.0	252.0	184.4	137.0	109.8
35°	451.9	457.3	459.4	461.2	468.4	419.9	325.8	236.5	162.6	117.1	96.0
37.5°	497.2	502.6	503.9	504.9	506.3	437.5	320.7	212.7	137.9	99.6	84.8
40°	553.0	557.6	559.5	558.1	550.7	451.3	309.3	185.1	114.0	87.8	77.8
42.5°	621.0	628.0	628.7	622.4	597.8	459.0	286.6	152.5	95.2	79.2	72.4
45°	705.3	704.9	700.9	696.5	649.1	455.9	254.8	124.2	83.4	72.4	67.6
47.5°	781.0	773.2	767.2	754.1	694.4	438.2	213.7	102.9	76.2	67.4	63.4
50°	843.0	828.6	815.9	801.8	728.1	406.9	172.7	87.4	69.4	62.9	59.5
52.5°	892.0	874.6	859.8	845.8	760.6	372.0	141.7	76.0	62.9	58.5	55.0
55°	968.7	951.3	927.6	912.2	810.3	340.0	121.5	66.8	56.7	53.9	50.4
57.5°	1162.6	1147.3	1119.0	1079.3	938.0	328.0	110.1	59.9	51.6	49.9	47.2
60°	1501.2	1476.4	1439.5	1399.1	1197.7	336.1	101.0	55.0	48.1	46.6	44.6
62.5°	1756.7	1713.1	1671.2	1633.9	1405.3	335.9	89.2	51.3	45.5	44.9	42.7
65°	1767.2	1722.8	1680.7	1641.6	1409.9	298.9	75.2	48.1	45.1	44.9	41.3
67.5°	1673.4	1625.3	1584.6	1535.1	1305.2	233.7	60.4	46.0	46.9	46.4	40.8
70°	1520.0	1457.3	1423.9	1375.1	1148.7	163.5	49.7	46.6	50.9	49.4	41.6
72.5°	1193.1	1145.7	1094.8	1060.9	899.3	103.3	41.8	47.2	52.5	50.2	43.4
75°	444.0	456.8	436.0	428.5	456.8	60.6	37.2	43.9	46.9	43.4	39.5
77.5°	89.6	85.7	81.2	80.3	103.8	37.4	34.1	38.1	36.0	31.8	32.0
80°	43.0	41.8	40.4	40.2	38.5	31.1	31.6	32.5	27.2	24.7	26.2
82.5°	28.6	26.9	26.4	25.6	26.0	27.9	29.9	27.9	20.9	19.5	23.7
85°	13.3	12.7	12.5	12.5	13.9	25.1	24.9	20.4	14.4	13.9	23.7
87.5°	3.2	3.2	3.5	3.2	3.7	7.5	6.5	6.3	5.4	6.0	11.2
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: P149863

CATALOG NUMBER: VXS-F01-LED-E1-SL2-8030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	221.6	221.6	221.6
2.5°	223.2	223.4	223.2
5°	225.3	225.3	225.3
7.5°	225.3	224.6	224.4
10°	222.1	219.9	219.9
12.5°	216.5	213.0	212.5
15°	206.0	201.3	200.6
17.5°	192.7	186.5	185.3
20°	177.9	170.1	168.6
22.5°	161.7	152.5	151.9
25°	145.6	136.4	134.5
27.5°	127.8	118.7	117.7
30°	109.8	102.0	101.5
32.5°	94.7	89.8	88.9
35°	84.0	81.2	80.1
37.5°	77.1	75.0	74.8
40°	71.8	69.9	69.6
42.5°	67.4	65.7	65.5
45°	62.9	61.6	61.0
47.5°	58.5	57.1	56.9
50°	54.6	52.7	52.5
52.5°	50.9	49.0	48.5
55°	47.4	45.5	45.5
57.5°	44.4	42.5	42.3
60°	41.6	39.7	39.5
62.5°	39.5	37.2	36.9
65°	37.8	35.5	35.0
67.5°	36.9	34.1	33.5
70°	38.5	33.5	32.3
72.5°	38.8	32.7	31.1
75°	37.4	30.9	29.7
77.5°	32.7	27.7	26.4
80°	28.3	21.3	19.7
82.5°	26.9	17.4	15.1
85°	20.9	11.4	10.7
87.5°	11.8	6.3	5.1
90°	0.0	0.0	0.0

(END OF REPORT)