

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: P149301

Luminaire Tested: **VXS-E02-LED-E1-SL2-HSS-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149301
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-E02-LED-E1-SL2-HSS-7050
Description: VISION SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (42) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3762.9 lumens
Efficiency: N/A
Efficacy: 72.2 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): 52.1
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

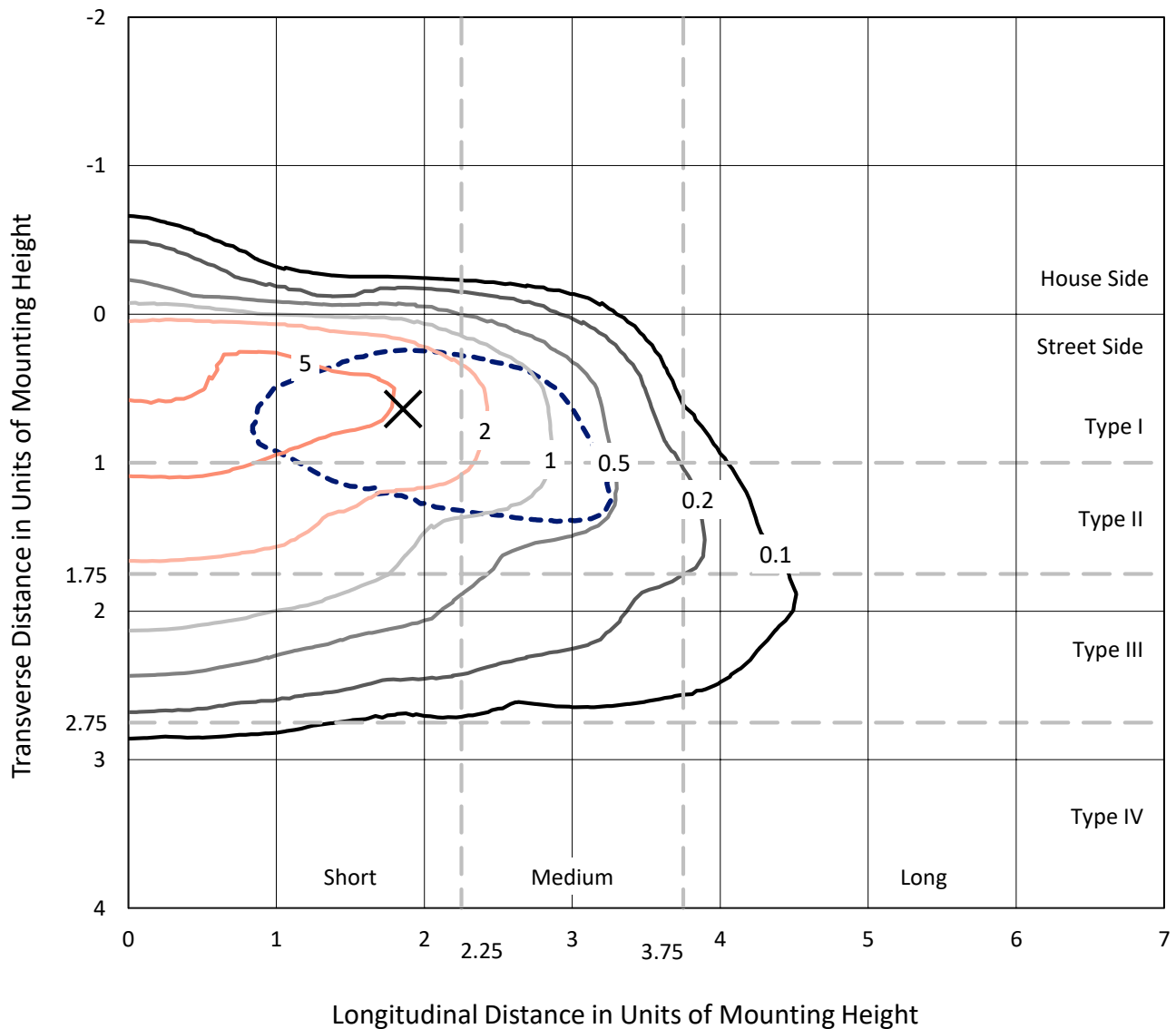


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

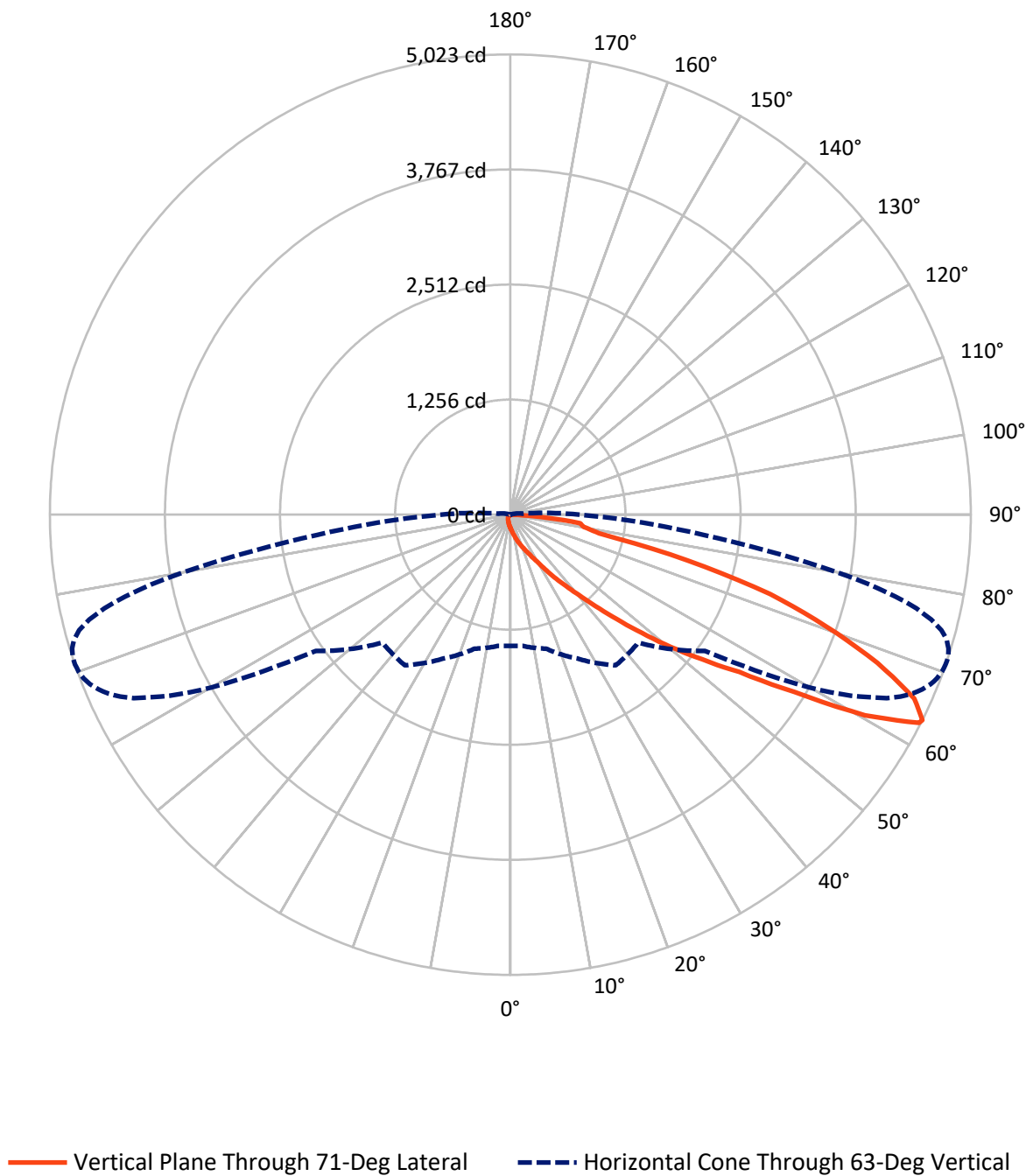


Based on 10 foot mounting height. Maximum calculated value = 7.9 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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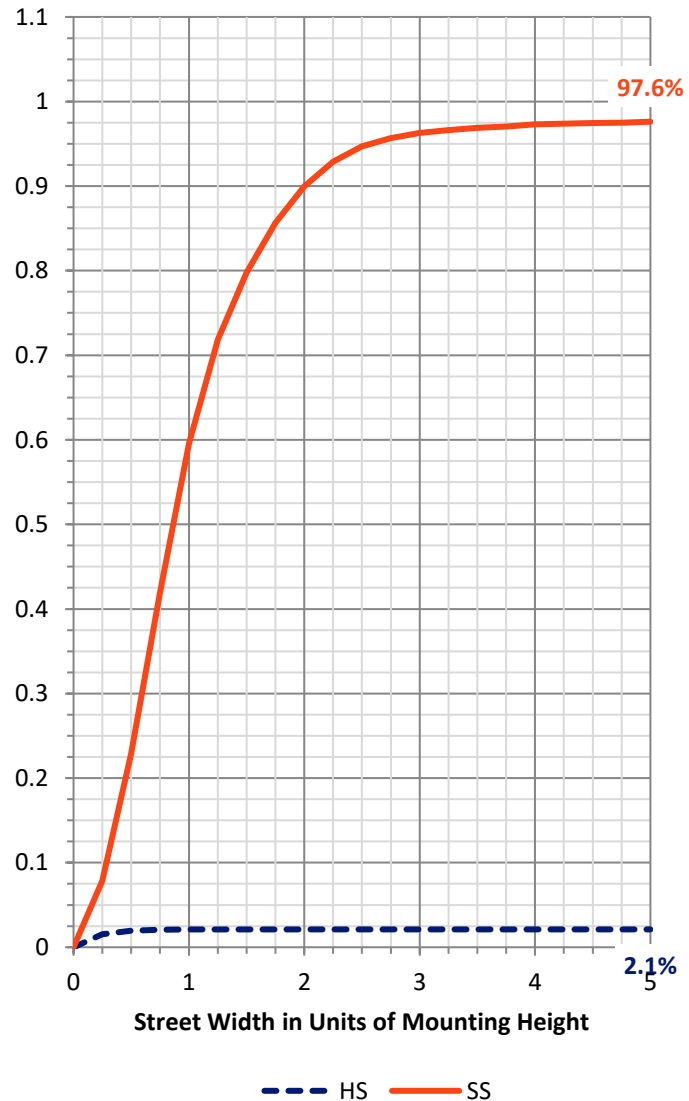
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	79.9	0.0	79.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3683.0	0.0	3683.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	3762.9	0.0	3762.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	0.4
10°-20°	61.9	1.6
20°-30°	125.7	3.3
30°-40°	307.0	8.2
40°-50°	686.7	18.2
50°-60°	965.5	25.7
60°-70°	1135.4	30.2
70°-80°	410.0	10.9
80°-90°	54.8	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°	3762.9	100.0
0°-180°	3762.9	100.0

Coefficient of Utilization



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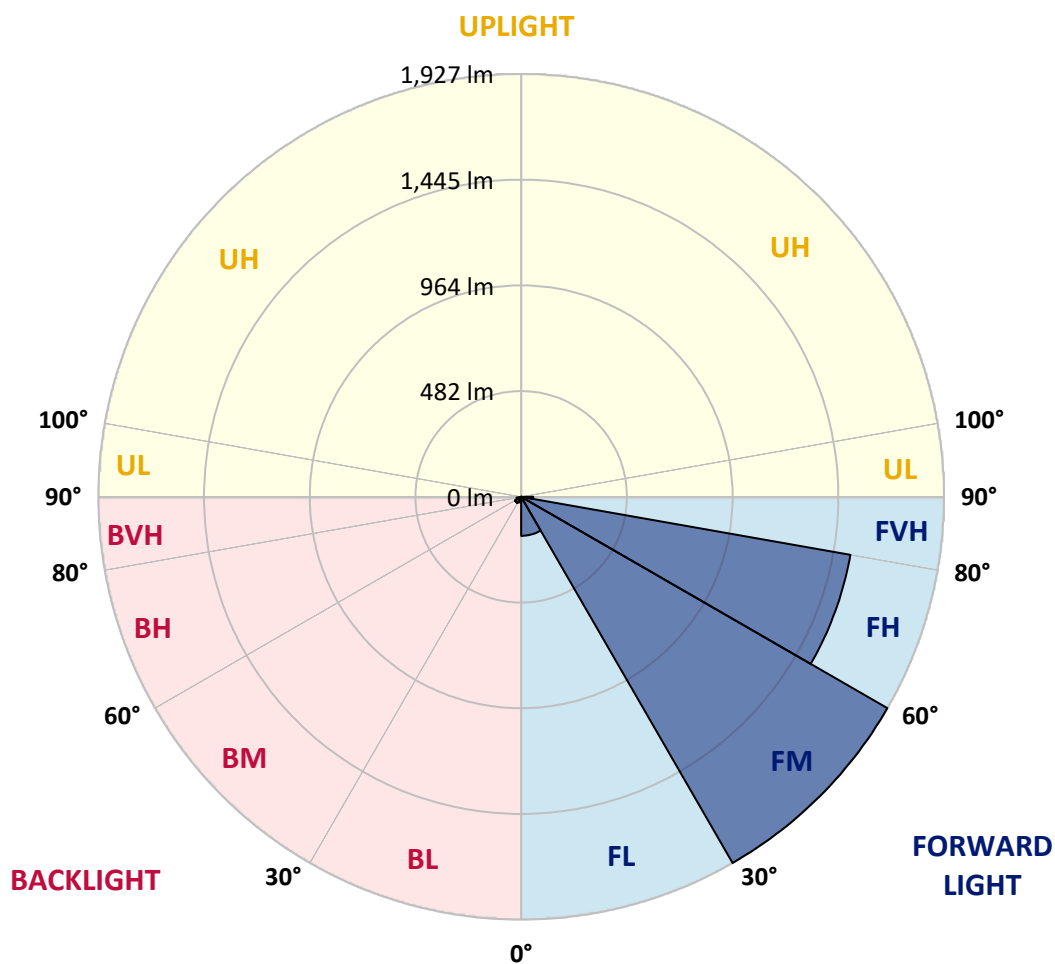
CATALOG NUMBER: VXS-E02-LED-E1-SL2-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	177.8	4.7			
FM	(30°-60°)	1927.0	51.2			
FH	(60°-80°)	1523.4	40.5			G1/1800
FVH	(80°-90°)	54.7	1.5			G1/100
BL	(0°-30°)	25.7	0.7	B0/110		
BM	(30°-60°)	32.2	0.9	B0/220		
BH	(60°-80°)	21.9	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°	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4
2.5°	188.8	190.9	189.5	186.1	182.0	176.5	171.7	171.7	171.0	169.0	169.6
5°	247.7	248.3	245.6	237.4	229.8	218.2	205.2	203.8	202.5	200.4	199.8
7.5°	305.1	307.9	305.1	296.2	281.1	263.3	242.8	240.8	236.7	236.7	234.0
10°	363.9	363.9	361.1	350.9	337.2	311.9	285.9	282.5	277.7	276.4	272.2
12.5°	405.7	405.7	404.2	398.9	387.9	365.3	333.8	330.4	324.2	322.2	317.4
15°	422.1	422.1	422.8	427.6	428.2	417.9	385.2	382.4	376.3	370.8	368.7
17.5°	432.3	431.6	431.6	438.4	450.8	457.6	436.5	433.7	426.8	424.1	417.3
20°	454.9	453.6	449.4	449.4	461.0	485.0	485.0	484.4	476.8	474.7	471.3
22.5°	488.4	487.0	474.7	464.5	469.9	500.1	528.1	526.7	524.0	521.2	519.2
25°	543.1	538.3	517.2	487.0	482.3	514.4	560.9	564.4	566.4	566.4	567.8
27.5°	625.9	619.8	582.2	526.0	504.9	537.7	597.2	604.0	610.2	611.6	617.7
30°	740.8	729.9	675.9	593.8	545.2	571.9	650.6	658.0	666.9	669.7	679.3
32.5°	929.6	923.5	871.5	748.4	644.4	639.0	725.1	734.7	746.3	751.1	762.7
35°	1217.0	1218.3	1176.0	1065.1	921.5	846.2	858.5	866.7	870.8	885.2	891.3
37.5°	1411.9	1415.3	1424.9	1381.1	1278.5	1201.9	1105.5	1114.3	1093.2	1095.2	1095.9
40°	1518.7	1529.5	1585.7	1628.1	1619.9	1575.4	1498.1	1502.9	1463.2	1454.3	1411.2
42.5°	1589.7	1604.1	1693.8	1825.1	1892.1	1932.5	1914.7	1912.6	1881.9	1870.3	1834.0
45°	1634.2	1647.3	1760.1	1953.7	2108.3	2226.0	2274.5	2280.0	2254.0	2242.4	2212.3
47.5°	1632.2	1647.3	1768.3	2001.6	2229.4	2417.5	2554.3	2561.1	2576.9	2566.6	2568.7
50°	1541.9	1556.3	1678.0	1920.2	2193.8	2505.1	2755.4	2777.3	2802.6	2819.7	2828.0
52.5°	1432.4	1442.7	1550.8	1780.6	2042.0	2468.8	2874.5	2912.1	2949.7	2981.9	3004.5
55°	1392.1	1403.7	1488.5	1679.4	1920.2	2317.0	2929.8	2985.3	3038.7	3091.3	3134.4
57.5°	1413.3	1424.2	1485.1	1631.5	1847.7	2156.9	2945.6	3031.8	3119.4	3204.9	3289.7
60°	1491.3	1502.9	1554.9	1676.0	1828.5	2064.6	2884.0	3027.0	3172.7	3321.9	3462.1
62.5°	1460.5	1465.3	1541.9	1754.0	1965.3	1985.9	2660.3	2860.1	3082.4	3312.2	3538.7
63°	1431.1	1436.6	1514.5	1732.7	2007.0	1974.2	2591.3	2802.0	3036.6	3284.2	3530.5
65°	1297.7	1298.3	1357.9	1530.3	1960.5	1994.7	2283.4	2484.6	2754.1	3051.0	3362.2
67.5°	968.6	963.8	1021.3	1152.6	1539.2	1995.4	1959.9	2072.7	2260.2	2523.5	2802.6
70°	343.4	335.9	428.9	610.9	959.1	1632.2	1684.1	1691.7	1743.7	1886.0	2061.1
72.5°	111.5	113.6	136.8	223.7	441.9	1098.7	1524.8	1501.6	1487.9	1487.2	1510.5
75°	44.5	45.2	54.7	99.2	198.3	529.4	1335.3	1348.3	1353.1	1359.9	1367.5
77.5°	21.2	23.2	30.8	55.4	98.5	262.0	955.6	1065.8	1128.7	1177.3	1206.7
80°	7.6	8.9	17.1	34.2	45.8	120.4	503.5	607.5	699.8	818.9	921.5
82.5°	0.0	0.0	3.4	23.9	25.3	48.6	206.6	242.2	277.1	359.2	461.0
85°	0.0	0.0	0.0	6.8	7.6	8.2	69.7	84.1	94.4	110.2	127.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.1	4.1	10.3	15.8
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4
2.5°	168.3	167.6	167.6	166.2	165.6	164.1	163.5	161.5	160.7	160.7	160.7
5°	199.1	196.4	194.9	191.5	189.5	188.8	185.4	184.0	182.0	182.7	179.3
7.5°	233.3	228.5	226.4	221.7	220.3	215.4	214.1	210.7	208.6	204.6	203.2
10°	270.9	264.8	261.3	253.8	251.7	248.3	244.2	240.1	236.7	232.5	230.6
12.5°	314.0	308.5	305.8	295.5	290.8	285.9	280.5	275.0	269.5	266.1	261.3
15°	364.6	355.8	353.0	343.4	335.2	329.0	321.6	314.7	310.6	303.7	299.0
17.5°	414.5	405.7	403.6	389.2	380.3	376.3	368.0	359.2	351.6	344.8	337.2
20°	464.5	458.3	452.8	439.2	429.6	422.8	411.8	402.9	396.8	387.2	377.6
22.5°	514.4	508.3	504.1	489.8	480.9	471.3	461.8	452.1	443.3	431.6	420.7
25°	565.7	561.7	559.6	546.5	538.3	529.4	519.9	508.9	498.0	485.0	473.4
27.5°	619.1	620.4	616.4	613.6	604.8	598.5	583.5	576.0	567.8	552.0	537.7
30°	686.8	690.9	689.5	691.6	686.1	682.0	670.4	660.8	651.2	636.2	619.8
32.5°	772.3	777.8	780.5	788.1	785.3	783.9	780.5	766.8	760.0	734.0	727.2
35°	904.4	901.6	913.3	919.4	916.7	915.3	911.2	903.6	895.4	877.0	859.9
37.5°	1076.1	1078.8	1082.9	1070.6	1062.4	1061.7	1049.3	1041.9	1030.3	1009.6	989.1
40°	1390.7	1373.6	1354.5	1302.5	1279.9	1266.9	1230.7	1220.4	1200.5	1172.5	1151.3
42.5°	1799.8	1782.7	1725.2	1638.3	1591.8	1527.6	1498.1	1461.9	1433.8	1388.0	1363.3
45°	2206.1	2156.9	2150.1	2048.8	1991.3	1906.5	1853.8	1793.0	1729.3	1669.1	1625.4
47.5°	2548.8	2537.9	2504.4	2442.8	2389.4	2318.3	2250.6	2156.9	2091.2	2005.7	1927.0
50°	2823.1	2822.5	2810.2	2774.6	2730.2	2672.6	2613.2	2533.8	2459.3	2354.6	2270.5
52.5°	3028.4	3039.3	3043.4	3032.4	3015.3	2964.8	2934.6	2868.3	2805.4	2716.5	2625.5
55°	3178.9	3219.3	3239.8	3263.0	3258.2	3240.4	3239.1	3196.0	3167.3	3096.8	3032.4
57.5°	3365.0	3431.3	3494.9	3607.8	3611.9	3651.6	3672.1	3692.6	3698.1	3670.1	3648.8
60°	3601.7	3737.1	3857.5	4093.5	4155.0	4252.2	4315.1	4383.5	4441.7	4446.4	4445.1
62.5°	3768.5	3977.2	4171.5	4521.7	4641.5	4753.6	4837.7	4904.1	4944.5	4985.5	5004.7
63°	3773.4	4001.8	4208.4	4569.6	4695.4	4802.2	4882.2	4943.7	4986.2	5010.8	5023.1
65°	3657.7	3934.8	4181.0	4540.8	4659.2	4766.6	4808.3	4848.7	4869.2	4878.8	4842.5
67.5°	3100.2	3371.1	3658.4	4060.6	4161.9	4290.5	4324.7	4345.2	4354.8	4352.7	4322.0
70°	2318.3	2545.4	2864.9	3324.6	3458.7	3584.6	3662.5	3696.1	3706.9	3703.5	3657.7
72.5°	1618.5	1751.9	2015.2	2526.9	2709.6	2871.1	2967.5	3017.4	3027.7	3007.2	2964.8
75°	1359.3	1366.1	1425.6	1705.4	1876.4	2048.8	2157.5	2189.0	2168.5	2106.2	1998.1
77.5°	1213.6	1228.6	1228.6	1270.4	1303.8	1351.7	1362.0	1285.4	1196.5	1081.6	988.5
80°	1017.9	1070.6	1107.5	1138.3	1141.8	1132.1	1106.8	1063.7	995.3	907.8	810.7
82.5°	618.4	722.4	764.8	923.5	1001.5	1054.2	1050.1	992.5	940.6	849.6	766.8
85°	156.0	168.3	182.7	237.4	266.1	325.0	361.9	379.0	385.2	353.7	320.1
87.5°	15.0	10.3	17.1	13.0	18.4	13.7	18.4	17.1	21.2	22.6	24.7
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°	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4
2.5°	159.4	158.7	158.0	157.3	156.7	156.0	154.6	154.6	153.3	152.5	151.8
5°	177.2	175.9	175.1	173.8	171.7	170.4	168.3	165.6	163.5	162.8	161.5
7.5°	199.8	196.4	194.9	193.0	190.2	186.1	183.3	181.2	177.8	175.9	171.7
10°	225.1	221.7	217.5	213.5	209.3	204.6	201.1	198.3	193.0	190.2	185.4
12.5°	257.2	251.1	246.2	240.8	235.3	229.8	225.7	217.5	212.7	206.6	202.5
15°	290.1	284.6	279.1	272.2	264.0	255.1	251.1	243.5	237.4	227.8	222.3
17.5°	329.7	319.5	311.3	303.0	295.5	287.4	279.1	267.5	258.5	250.4	239.4
20°	368.7	356.4	347.5	336.6	325.6	312.6	303.0	294.8	282.5	271.6	259.9
22.5°	410.5	398.1	383.7	372.8	357.7	347.5	334.5	320.8	308.5	294.2	279.8
25°	461.0	448.1	431.6	417.3	400.2	385.8	370.1	354.3	339.3	322.9	304.5
27.5°	523.3	509.6	491.8	474.7	452.1	434.4	419.4	398.1	379.0	358.4	337.2
30°	602.0	586.9	565.1	540.4	517.8	498.0	476.8	448.7	427.6	402.9	375.5
32.5°	704.6	686.8	657.4	634.1	606.1	580.1	550.7	522.6	492.5	460.4	428.9
35°	833.9	817.5	783.2	749.0	718.2	687.5	650.6	618.4	576.0	537.0	496.7
37.5°	968.0	938.5	907.0	870.2	831.8	794.9	749.7	705.3	656.7	614.3	563.6
40°	1121.1	1085.6	1059.6	1020.0	965.9	913.3	871.5	816.1	755.2	698.4	639.0
42.5°	1331.2	1291.5	1245.0	1184.8	1145.8	1084.2	1030.3	964.6	884.5	820.9	749.0
45°	1574.1	1520.0	1474.8	1416.7	1369.5	1292.8	1229.9	1142.4	1062.4	978.9	891.3
47.5°	1851.1	1784.0	1718.3	1660.9	1585.7	1510.5	1430.4	1337.3	1234.7	1143.1	1039.1
50°	2169.2	2074.1	1983.1	1909.2	1805.9	1719.1	1632.2	1527.6	1414.0	1308.6	1190.3
52.5°	2522.9	2412.7	2292.3	2178.8	2059.1	1947.6	1842.9	1722.5	1596.0	1467.4	1335.3
55°	2949.7	2866.9	2725.3	2581.0	2420.9	2271.8	2137.0	1987.9	1834.0	1665.1	1526.1
57.5°	3618.0	3577.7	3459.4	3315.0	3106.3	2925.1	2696.6	2514.0	2291.0	2058.3	1879.2
60°	4523.7	4473.8	4407.5	4290.5	4125.0	3878.7	3626.9	3343.0	3003.7	2681.6	2375.8
62.5°	5006.7	4988.9	4934.9	4854.2	4699.6	4505.3	4251.5	3939.6	3556.5	3165.2	2775.2
63°	5021.0	4998.5	4952.0	4869.9	4733.8	4545.6	4296.7	3993.6	3618.8	3219.9	2821.8
65°	4826.8	4817.9	4770.7	4681.1	4588.1	4444.5	4251.5	3990.9	3676.2	3299.3	2903.2
67.5°	4280.9	4254.2	4181.8	4154.4	4089.3	3989.5	3842.4	3663.2	3438.1	3142.0	2799.9
70°	3620.8	3581.1	3490.2	3441.6	3362.2	3299.3	3209.6	3081.8	2942.9	2736.3	2481.1
72.5°	2920.9	2838.9	2755.4	2628.9	2518.0	2405.9	2306.7	2216.4	2063.8	1980.4	1786.8
75°	1896.9	1747.8	1604.9	1413.3	1240.9	1088.4	939.9	864.7	708.0	644.4	553.4
77.5°	900.2	816.8	704.6	617.7	506.9	413.9	337.9	253.8	199.1	156.0	119.1
80°	726.5	656.1	588.3	509.6	426.2	340.0	260.6	194.9	138.1	95.8	67.8
82.5°	647.8	571.2	487.8	433.7	376.9	308.5	253.1	206.6	152.5	111.5	76.0
85°	251.7	212.0	163.5	133.4	103.9	85.5	77.3	53.4	41.8	32.8	25.3
87.5°	21.9	17.8	14.4	9.5	10.3	5.5	6.1	4.1	3.4	3.4	2.7
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: P149301

CATALOG NUMBER: VXS-E02-LED-E1-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4	144.4
2.5°	151.2	150.5	149.8	148.4	148.4	147.0	146.4	145.7	142.3	134.7	128.6
5°	158.7	157.3	156.0	153.9	152.5	150.5	149.1	147.0	139.6	125.2	112.8
7.5°	169.6	166.9	164.9	160.7	158.7	156.0	153.9	150.5	138.1	116.3	99.2
10°	182.7	177.8	174.4	169.6	165.6	162.2	158.7	153.9	136.8	106.7	86.8
12.5°	198.3	193.0	186.1	180.6	175.1	170.4	165.6	159.4	134.7	98.5	77.3
15°	214.1	205.9	201.1	193.6	186.1	179.3	172.4	166.9	135.4	89.6	69.1
17.5°	231.9	223.7	213.5	205.2	197.0	188.1	179.9	169.0	132.0	82.8	62.9
20°	249.0	237.4	227.8	217.5	205.9	194.9	184.7	175.1	129.3	76.0	57.5
22.5°	267.5	253.8	241.5	228.5	214.1	201.8	189.5	177.2	124.5	69.7	52.6
25°	290.1	274.3	256.5	240.8	225.7	210.7	194.9	179.9	119.7	64.4	49.2
27.5°	317.4	296.9	279.1	259.3	238.0	218.9	201.8	185.4	114.9	60.2	45.8
30°	352.3	328.4	303.0	277.7	255.1	233.3	209.3	188.8	110.2	56.1	42.4
32.5°	398.9	368.7	337.9	308.5	278.4	250.4	225.1	198.3	107.4	52.6	39.0
35°	460.4	421.3	383.7	346.8	310.6	276.4	243.5	213.5	107.4	48.6	34.9
37.5°	518.5	473.4	425.5	379.7	336.6	296.9	257.9	221.7	102.0	45.2	31.5
40°	581.5	527.5	471.3	417.3	365.3	316.1	271.6	229.8	97.1	41.0	28.1
42.5°	677.9	609.5	536.3	473.4	411.1	350.3	294.8	245.6	91.0	36.9	24.7
45°	804.5	717.6	631.4	554.8	475.4	400.8	335.2	274.3	89.6	33.5	21.2
47.5°	939.9	837.3	736.1	638.2	545.2	458.3	379.7	306.4	89.6	30.1	18.4
50°	1074.7	946.1	838.0	724.5	619.8	517.2	423.4	340.0	90.3	27.4	15.0
52.5°	1196.5	1059.0	937.8	806.5	690.9	571.9	469.9	372.8	88.9	23.9	12.3
55°	1365.4	1203.9	1063.7	918.8	783.2	649.2	533.6	422.1	89.6	21.2	10.3
57.5°	1676.7	1487.2	1318.2	1128.1	972.0	799.0	658.8	523.3	97.8	17.8	7.6
60°	2123.3	1877.1	1639.7	1407.8	1209.4	1003.5	821.6	662.2	114.9	14.4	5.5
62.5°	2423.6	2101.5	1818.2	1562.4	1331.9	1116.4	918.0	736.8	126.5	11.6	3.4
63°	2454.4	2121.3	1836.7	1572.6	1337.3	1121.9	922.2	742.2	127.3	11.0	3.4
65°	2512.5	2155.5	1846.9	1574.7	1331.9	1114.3	919.4	741.6	128.6	8.9	2.7
67.5°	2446.2	2102.8	1787.5	1515.9	1284.0	1069.8	885.2	714.2	127.9	6.1	2.1
70°	2187.7	1903.1	1626.0	1373.0	1162.3	968.6	805.8	651.2	117.6	4.1	1.3
72.5°	1606.2	1412.6	1197.8	1015.1	875.6	727.2	620.4	489.1	91.0	2.7	0.7
75°	476.1	433.7	364.6	321.6	283.9	234.6	208.6	162.8	46.5	1.3	0.0
77.5°	95.1	86.2	77.3	70.5	66.3	56.8	54.1	44.5	19.2	0.7	0.0
80°	49.9	41.0	34.9	30.8	26.6	21.9	18.4	15.0	3.4	0.0	0.0
82.5°	47.9	32.1	23.2	19.2	16.4	13.0	10.3	7.6	2.1	0.0	0.0
85°	17.8	13.7	10.3	8.2	6.8	6.1	4.8	4.1	0.0	0.0	0.0
87.5°	2.7	2.1	2.1	1.3	1.3	0.7	0.7	0.7	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

REPORT NUMBER: P149301

CATALOG NUMBER: VXS-E02-LED-E1-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	144.4	144.4	144.4	144.4	144.4	144.4	144.4
2.5°	122.5	117.0	114.2	110.8	110.8	110.2	111.5
5°	102.0	94.4	88.9	84.9	85.5	83.4	84.1
7.5°	86.2	78.7	73.9	71.2	70.5	69.7	69.7
10°	74.6	67.8	63.6	61.6	60.9	60.9	60.9
12.5°	66.3	59.5	56.1	54.7	54.7	54.1	54.1
15°	59.5	54.1	50.6	49.2	49.2	48.6	49.2
17.5°	54.1	48.6	45.8	44.5	44.5	43.7	43.7
20°	49.2	44.5	41.8	39.7	39.7	39.0	39.7
22.5°	45.2	40.3	36.9	35.5	34.9	34.2	34.9
25°	41.0	36.3	32.8	30.8	30.1	30.1	29.4
27.5°	37.6	32.8	28.7	26.6	26.0	26.0	25.3
30°	34.2	28.7	24.7	22.6	21.9	21.9	21.9
32.5°	30.8	24.7	21.2	19.2	18.4	18.4	18.4
35°	27.4	21.2	17.8	15.8	15.0	15.0	15.0
37.5°	23.2	17.8	13.7	12.3	11.6	11.0	11.0
40°	19.8	13.7	10.3	8.9	7.6	7.6	7.6
42.5°	16.4	11.0	7.6	5.5	4.8	4.1	4.8
45°	13.7	8.2	4.8	2.7	2.1	2.1	2.1
47.5°	11.0	5.5	2.1	0.7	0.7	0.7	0.7
50°	8.2	3.4	0.7	0.0	0.0	0.7	0.7
52.5°	6.1	2.1	0.0	0.0	0.0	0.0	0.0
55°	3.4	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.1	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.7	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.7	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)