

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: P150459

Luminaire Tested: **VXS-E04-LED-E1-SL3-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P150459
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33727)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-E04-LED-E1-SL3-HSS-7030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6334.4 lumens
Efficiency: N/A
Efficacy: 65.2 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 97.2
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

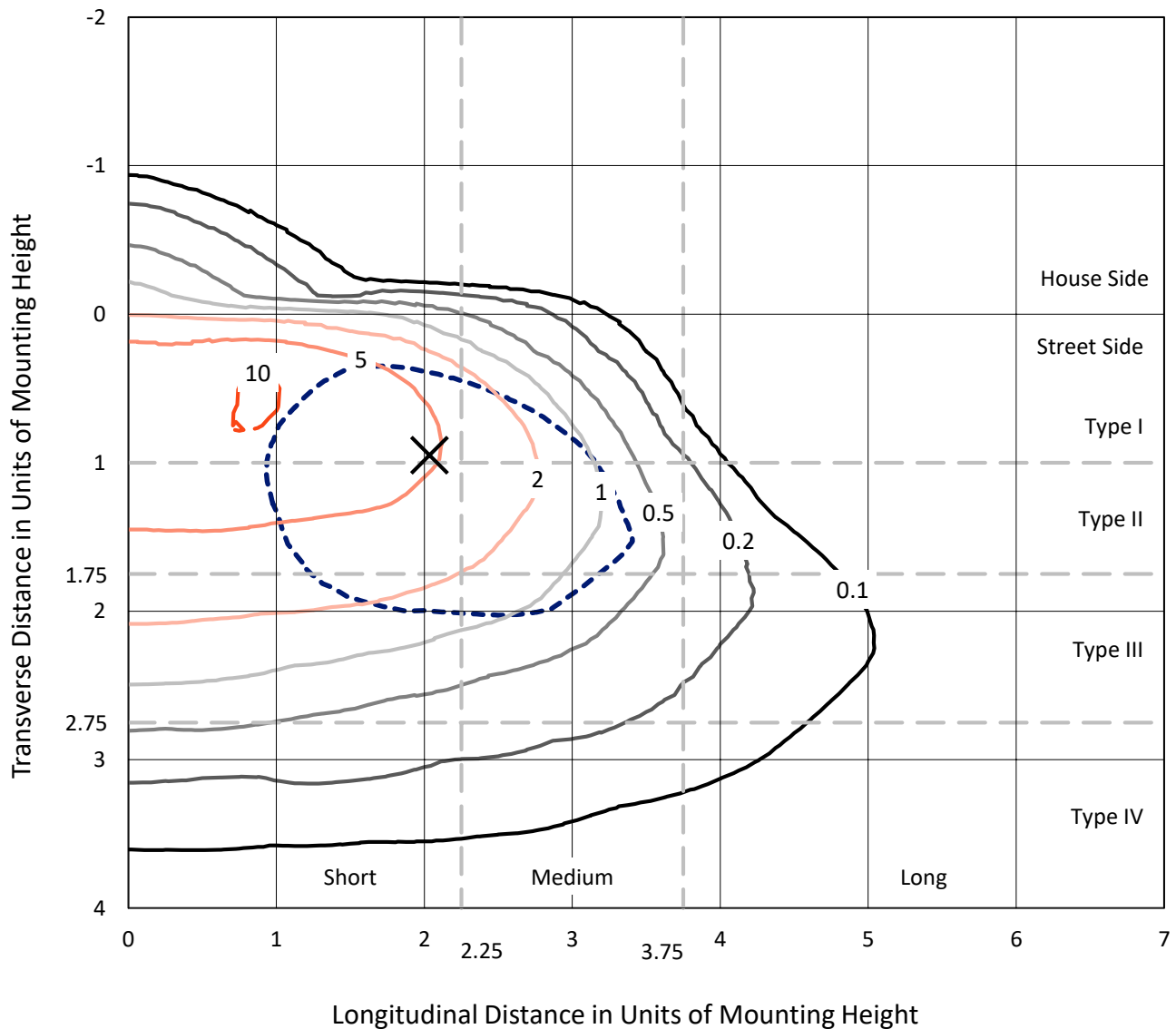


REPORT NUMBER: P150459

CATALOG NUMBER: VXS-E04-LED-E1-SL3-HSS-7030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

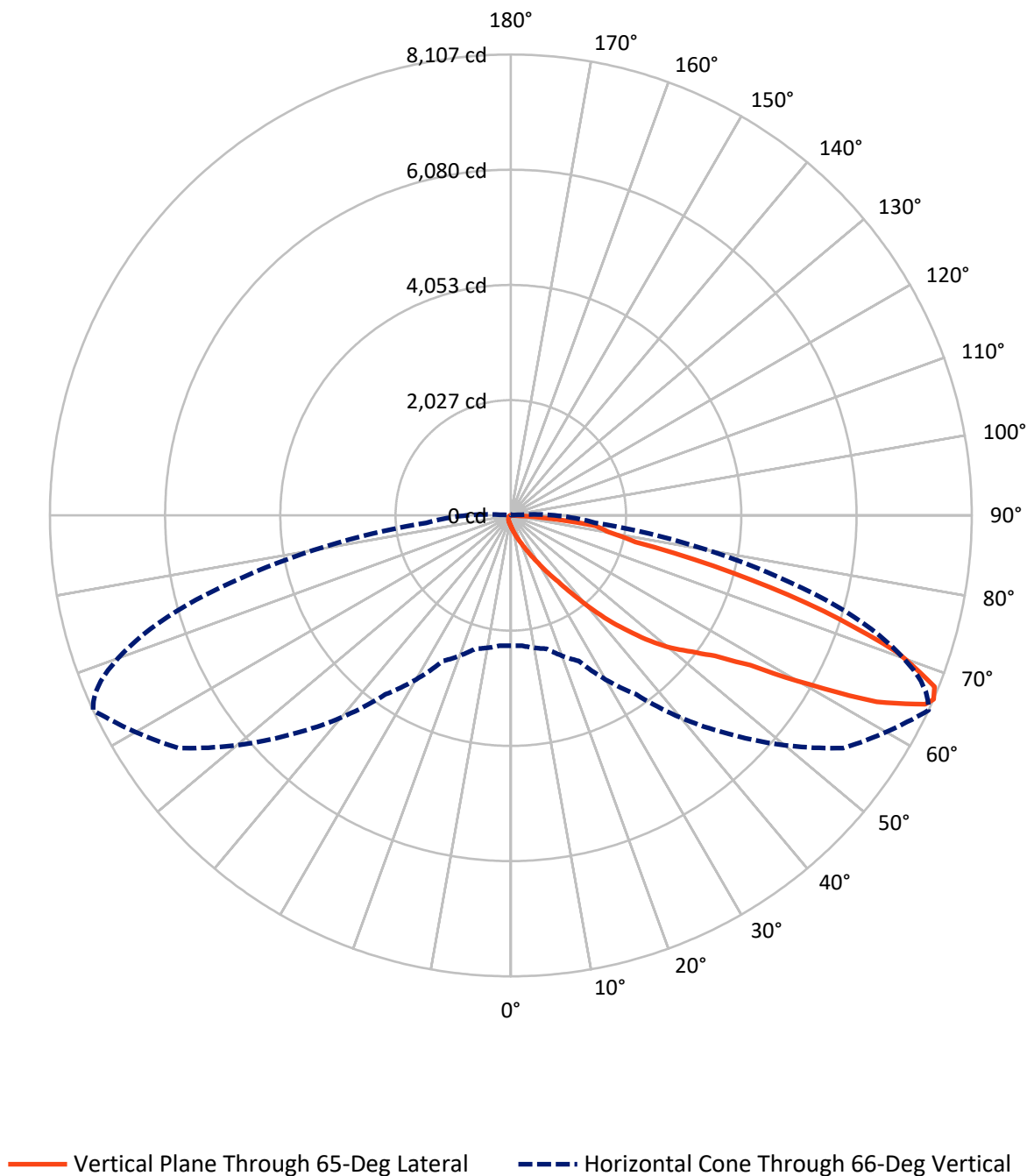


Based on 10 foot mounting height. Maximum calculated value = 10.5 fc
Type III - Short - Non-Cutoff

REPORT NUMBER: P150459

CATALOG NUMBER: VXS-E04-LED-E1-SL3-HSS-7030

Luminous Intensity Polar Plot



REPORT NUMBER: P150459

CATALOG NUMBER: VXS-E04-LED-E1-SL3-HSS-7030

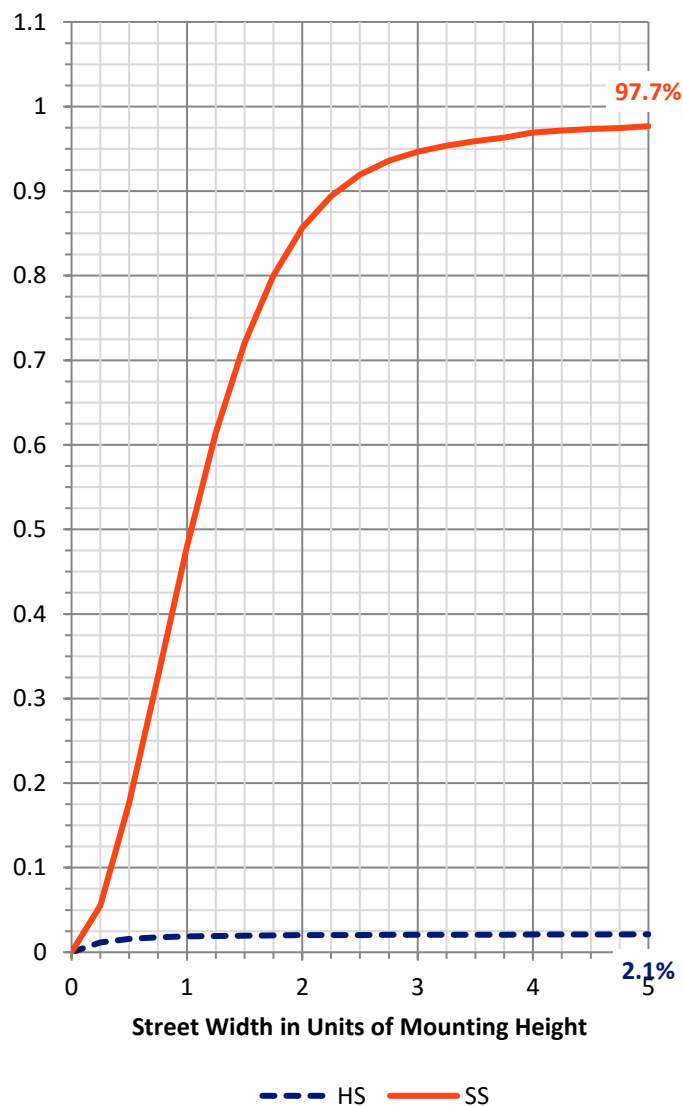
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	137.3	0.0	137.3
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	6197.1	0.0	6197.1
	% Fixture	97.8	0.0	97.8
Total	Lumens	6334.4	0.0	6334.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	21.4	0.3
10°-20°	90.8	1.4
20°-30°	195.7	3.1
30°-40°	418.0	6.6
40°-50°	924.4	14.6
50°-60°	1566.6	24.7
60°-70°	2090.5	33.0
70°-80°	920.9	14.5
80°-90°	106.1	1.7
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°	6334.4	100.0
0°-180°	6334.4	100.0

Coefficient of Utilization



REPORT NUMBER: P150459

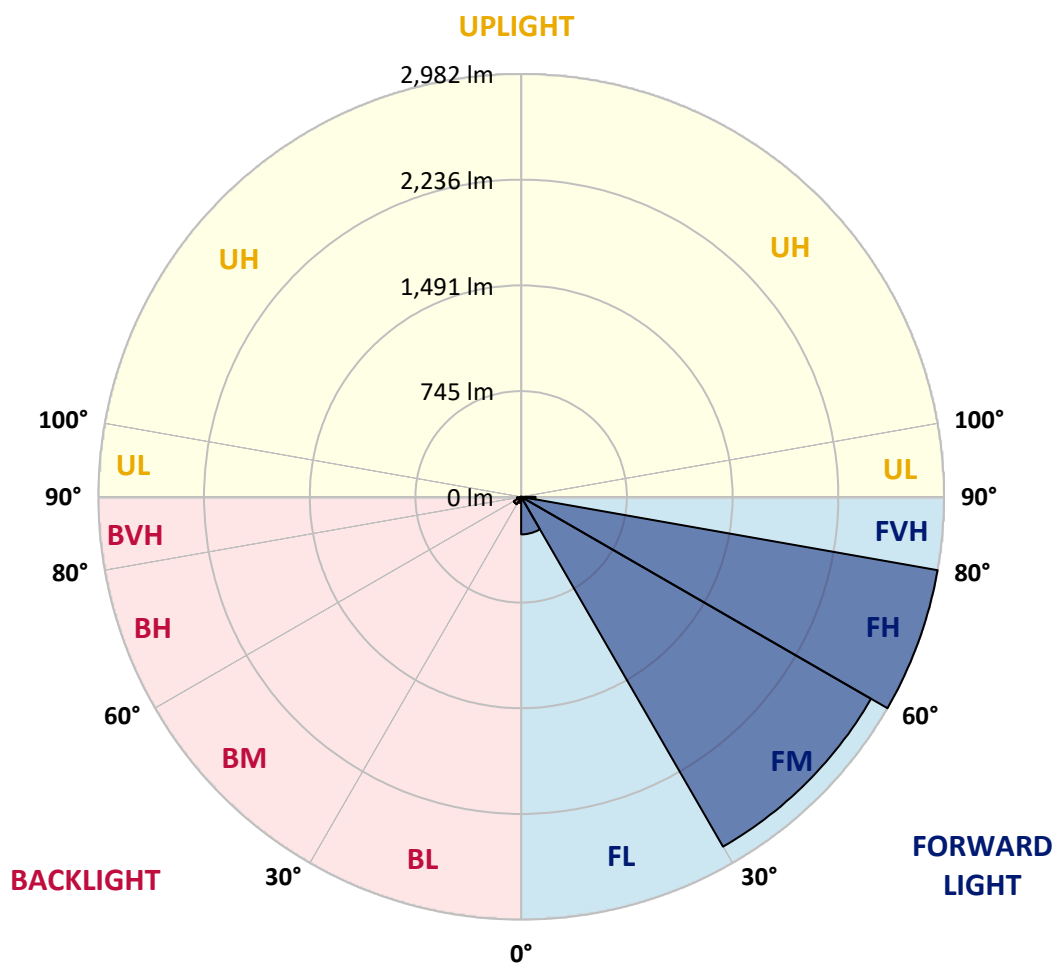
CATALOG NUMBER: VXS-E04-LED-E1-SL3-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	264.6	4.2			
FM	(30°-60°)	2848.8	45.0			
FH	(60°-80°)	2981.9	47.1			G2/5000
FVH	(80°-90°)	101.8	1.6			G2/225
BL	(0°-30°)	43.3	0.7	B0/110		
BM	(30°-60°)	60.3	1.0	B0/220		
BH	(60°-80°)	29.5	0.5	B0/110		G0/110
BVH	(80°-90°)	4.2	0.1			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type III Short



REPORT NUMBER: P150459

CATALOG NUMBER: VXS-E04-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2
2.5°	241.1	239.9	235.0	235.0	227.8	222.9	216.8	210.7	210.7	209.4	208.3
5°	319.1	311.7	310.6	297.1	286.2	270.4	255.8	236.3	233.8	231.4	230.2
7.5°	405.5	404.4	393.4	377.5	355.6	326.3	297.1	265.5	260.6	258.1	253.3
10°	517.6	511.5	496.9	470.1	437.2	398.2	350.8	300.8	294.7	289.8	287.4
12.5°	624.8	613.8	605.3	571.2	529.7	472.5	415.2	343.4	338.5	332.4	322.7
15°	724.6	714.8	700.2	671.0	624.8	552.8	485.9	398.2	386.0	377.5	370.3
17.5°	802.5	796.5	779.4	746.5	696.6	633.3	552.8	454.2	444.5	433.6	420.1
20°	876.8	868.3	841.5	796.5	742.9	694.2	632.0	527.4	513.9	500.5	485.9
22.5°	947.5	939.0	895.1	820.8	763.5	742.9	720.9	610.2	589.4	578.4	563.8
25°	1046.1	1027.8	959.6	841.5	764.8	780.6	818.3	717.3	697.8	682.0	658.9
27.5°	1178.9	1154.5	1047.4	871.9	769.6	822.0	930.4	847.6	826.8	808.6	783.0
30°	1328.6	1312.7	1184.9	945.0	805.0	882.9	1055.9	1013.2	988.8	966.9	936.5
32.5°	1479.6	1457.7	1331.1	1083.8	900.0	1001.0	1213.0	1205.6	1174.0	1153.3	1120.4
35°	1612.3	1601.5	1507.7	1311.6	1116.7	1208.1	1422.4	1430.9	1402.9	1381.0	1344.5
37.5°	1702.5	1702.5	1684.2	1556.4	1461.3	1529.5	1730.5	1731.7	1703.7	1653.8	1635.5
40°	1748.8	1762.2	1827.9	1852.2	1847.4	1935.1	2134.8	2112.8	2089.7	2064.1	2003.3
42.5°	1843.7	1856.0	1996.0	2164.0	2273.7	2389.3	2526.9	2519.6	2491.6	2445.4	2389.3
45°	2004.5	2020.3	2187.2	2453.9	2679.2	2843.5	2931.3	2897.1	2869.1	2825.3	2796.1
47.5°	2209.1	2239.6	2428.3	2758.3	3029.8	3301.5	3392.7	3302.7	3278.3	3244.2	3196.7
50°	2427.0	2456.3	2657.2	3034.7	3341.7	3665.6	3817.8	3665.6	3630.3	3619.3	3565.7
52.5°	2615.9	2640.2	2833.8	3247.9	3580.3	3960.3	4182.0	3981.0	3955.4	3918.9	3879.9
55°	2727.9	2747.4	2928.8	3350.2	3742.3	4225.8	4533.9	4357.3	4319.6	4305.0	4248.9
57.5°	2765.6	2785.1	2948.3	3363.5	3829.9	4468.1	4961.3	4967.4	4922.4	4869.9	4853.0
60°	2765.6	2787.6	2925.2	3330.7	3915.2	4726.3	5531.3	6039.1	5941.7	5931.9	5869.8
62.5°	2651.2	2671.8	2810.7	3229.6	4029.7	5074.6	6325.3	7221.6	7193.6	7130.3	7027.9
65°	2402.7	2414.9	2551.3	2971.4	3985.9	5394.8	7013.3	8008.3	7963.2	7839.0	7707.5
66°	2290.7	2300.4	2428.3	2824.0	3842.2	5438.7	7135.1	8106.9	8032.6	7927.9	7779.3
67.5°	2128.7	2145.8	2235.9	2550.1	3497.5	5286.4	7058.3	8037.5	7973.0	7846.3	7697.7
70°	1421.1	1409.0	1726.8	1957.0	2664.6	4307.4	6332.5	7216.7	7217.9	7158.2	7098.5
72.5°	674.6	682.0	774.5	1204.5	1743.9	2877.6	5040.5	5760.2	5843.0	5735.9	5661.6
75°	484.7	495.6	551.7	736.8	1040.0	1726.8	3267.4	4028.5	4030.9	3840.9	3671.7
77.5°	141.2	147.4	207.0	454.2	779.4	1165.4	1876.6	2239.6	2187.2	2050.8	1922.9
80°	58.4	58.4	60.9	144.9	313.0	791.6	1312.7	1724.5	1718.3	1665.9	1590.5
82.5°	22.0	23.1	29.2	59.7	74.3	194.8	875.6	1496.7	1493.1	1418.8	1365.2
85°	2.5	2.5	7.4	25.6	28.0	36.6	175.3	660.0	656.4	660.0	578.4
87.5°	0.0	0.0	1.2	2.5	3.6	4.9	7.4	25.6	28.0	26.8	24.4
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: P150459

CATALOG NUMBER: VXS-E04-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2
2.5°	208.3	205.8	205.8	204.6	204.6	204.6	203.4	202.2	202.2	200.9	199.7
5°	227.8	225.3	224.0	221.7	220.4	219.2	216.8	215.5	213.2	211.9	210.7
7.5°	250.9	246.0	244.8	241.1	237.5	235.0	232.6	228.9	226.5	221.7	220.4
10°	280.1	274.0	269.1	264.2	260.6	254.5	250.9	246.0	241.1	237.5	233.8
12.5°	317.8	309.3	302.0	297.1	288.6	281.3	274.0	270.4	260.6	255.8	249.6
15°	359.3	349.5	340.9	331.2	325.2	313.0	303.2	292.2	287.4	278.9	269.1
17.5°	412.8	397.0	383.6	373.9	361.7	349.5	338.5	327.6	313.0	303.2	291.1
20°	470.1	456.7	438.4	421.3	406.7	392.1	376.3	361.7	348.3	332.4	317.8
22.5°	543.1	523.6	501.8	484.7	465.2	449.3	427.5	408.0	386.0	365.4	348.3
25°	635.6	610.2	589.4	565.1	542.0	517.6	490.8	466.4	438.4	419.0	389.7
27.5°	750.2	725.8	697.8	666.1	643.0	606.4	571.2	540.7	507.8	477.4	444.5
30°	896.3	861.0	831.7	801.3	755.0	719.7	678.3	636.9	591.8	561.5	511.5
32.5°	1071.7	1033.9	990.1	946.2	903.6	853.7	802.5	751.4	701.5	645.4	594.3
35°	1286.0	1240.9	1191.0	1143.5	1077.7	1024.1	959.6	889.0	833.0	768.4	703.9
37.5°	1569.7	1495.4	1451.6	1401.7	1312.7	1239.7	1167.9	1097.2	998.5	930.4	839.1
40°	1925.4	1881.5	1809.6	1729.3	1648.9	1552.7	1455.2	1361.5	1247.0	1152.0	1046.1
42.5°	2343.0	2278.5	2205.4	2089.7	2008.2	1894.9	1784.0	1659.9	1519.8	1398.0	1273.8
45°	2735.1	2658.4	2602.5	2486.7	2401.5	2267.6	2133.6	2002.1	1840.1	1683.0	1539.3
47.5°	3159.0	3095.6	3003.1	2909.3	2822.9	2671.8	2526.9	2367.4	2196.9	2010.6	1824.2
50°	3531.6	3481.7	3418.3	3305.1	3208.9	3082.3	2911.7	2737.6	2522.1	2337.0	2125.1
52.5°	3848.3	3809.3	3720.4	3640.0	3553.6	3434.2	3282.0	3115.1	2882.5	2679.2	2438.0
55°	4222.1	4194.1	4116.2	4066.2	3989.5	3875.0	3732.5	3577.9	3331.9	3110.3	2837.5
57.5°	4834.7	4812.7	4744.6	4723.8	4648.4	4548.5	4373.2	4207.5	3920.1	3644.9	3333.2
60°	5849.1	5805.3	5705.4	5654.2	5494.7	5360.7	5133.1	4905.3	4558.2	4207.5	3832.4
62.5°	6935.3	6812.3	6622.4	6459.2	6232.7	6000.1	5695.6	5347.4	4940.6	4524.1	4093.1
65°	7521.1	7311.7	7071.8	6812.3	6518.9	6176.7	5793.1	5375.3	4938.1	4498.5	4043.1
66°	7588.1	7351.8	7097.3	6808.7	6482.4	6118.2	5728.5	5290.2	4835.9	4407.3	3951.8
67.5°	7504.0	7256.9	6987.8	6667.5	6314.3	5936.8	5527.6	5072.1	4634.9	4200.2	3756.9
70°	6915.9	6669.8	6429.9	6092.6	5716.4	5336.4	4949.1	4440.1	4026.0	3626.6	3232.0
72.5°	5522.7	5355.9	5118.4	4829.8	4463.2	4017.5	3694.8	3239.4	2880.1	2492.8	2187.2
75°	3451.3	3216.2	2922.7	2554.9	2274.8	1913.2	1724.5	1378.5	1174.0	994.9	822.0
77.5°	1764.6	1588.0	1382.2	1175.1	976.7	779.4	602.8	426.2	287.4	199.7	148.6
80°	1457.7	1301.9	1131.3	942.6	767.3	595.5	428.7	292.2	186.3	121.8	95.0
82.5°	1204.5	1072.8	920.6	745.3	593.1	467.7	325.2	211.9	131.5	85.3	66.9
85°	512.6	465.2	359.3	285.0	214.3	158.3	110.8	74.3	52.3	42.6	39.0
87.5°	22.0	24.4	23.1	18.2	13.4	13.4	12.2	9.7	9.7	9.7	9.7
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: P150459

CATALOG NUMBER: VXS-E04-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2	191.2
2.5°	199.7	198.5	197.3	197.3	196.1	194.8	187.6	181.5	174.2	169.2	164.4
5°	208.3	207.0	204.6	203.4	200.9	199.7	183.9	170.5	159.5	151.0	144.9
7.5°	216.8	215.5	211.9	208.3	207.0	204.6	179.1	162.0	147.4	137.6	131.5
10°	227.8	224.0	220.4	215.5	211.9	208.3	174.2	152.2	136.4	127.9	121.8
12.5°	243.5	237.5	231.4	225.3	220.4	214.3	171.7	143.7	127.9	118.1	112.0
15°	261.9	253.3	246.0	238.7	230.2	224.0	166.8	136.4	120.5	110.8	103.5
17.5°	278.9	269.1	258.1	247.3	238.7	230.2	162.0	129.1	113.3	103.5	96.2
20°	303.2	288.6	275.2	261.9	249.6	238.7	154.6	121.8	107.2	96.2	88.9
22.5°	330.1	313.0	296.0	277.6	261.9	247.3	148.6	115.6	101.0	90.2	81.6
25°	364.1	343.4	320.3	297.1	278.9	259.4	142.5	109.6	95.0	84.0	75.5
27.5°	411.6	382.4	356.8	327.6	299.6	277.6	137.6	104.8	88.9	77.9	69.4
30°	476.2	433.6	393.4	361.7	328.8	297.1	132.7	98.7	84.0	71.8	62.1
32.5°	548.0	498.0	451.8	404.4	362.9	326.3	127.9	93.8	77.9	65.8	57.2
35°	636.9	573.6	511.5	456.7	406.7	358.0	123.0	88.9	73.1	59.7	51.2
37.5°	764.8	685.6	604.0	533.4	468.8	404.4	119.4	84.0	66.9	53.6	45.1
40°	940.1	837.8	738.0	641.8	557.7	477.4	114.5	79.2	62.1	48.7	40.2
42.5°	1130.2	1005.9	874.4	766.0	650.3	549.2	109.6	74.3	57.2	43.8	35.3
45°	1366.3	1211.7	1052.2	904.9	763.5	633.3	104.8	69.4	51.2	39.0	30.5
47.5°	1624.6	1427.3	1247.0	1062.0	893.9	738.0	98.7	65.8	46.3	34.1	26.8
50°	1890.1	1681.8	1454.1	1243.4	1043.6	842.7	92.5	59.7	41.5	30.5	22.0
52.5°	2176.2	1930.3	1697.6	1435.8	1203.2	980.3	86.4	54.8	37.7	26.8	18.2
55°	2540.3	2265.1	1992.3	1698.9	1418.8	1139.9	80.4	48.7	32.8	23.1	14.6
57.5°	2998.2	2671.8	2337.0	2005.7	1665.9	1349.3	75.5	42.6	28.0	19.5	12.2
60°	3430.6	3049.3	2643.8	2262.7	1879.1	1510.1	68.2	37.7	24.4	15.9	12.2
62.5°	3654.6	3219.9	2782.7	2362.5	1953.4	1567.4	60.9	31.7	20.7	13.4	11.0
65°	3599.8	3156.6	2732.7	2308.9	1908.3	1530.8	53.6	28.0	18.2	12.2	11.0
66°	3520.6	3082.3	2656.1	2253.0	1870.6	1491.8	49.9	26.8	17.1	12.2	9.7
67.5°	3347.8	2923.9	2517.2	2142.1	1767.0	1417.5	45.1	24.4	15.9	11.0	9.7
70°	2859.4	2474.6	2149.4	1815.8	1510.1	1194.6	36.6	20.7	13.4	9.7	9.7
72.5°	1892.4	1630.7	1413.9	1216.6	1016.9	789.1	30.5	17.1	11.0	9.7	8.5
75°	713.7	645.4	554.1	498.0	434.7	381.1	24.4	11.0	8.5	8.5	8.5
77.5°	126.6	116.9	103.5	95.0	87.7	80.4	19.5	7.4	7.4	8.5	8.5
80°	85.3	79.2	71.8	65.8	60.9	54.8	13.4	6.1	7.4	7.4	8.5
82.5°	60.9	57.2	53.6	48.7	45.1	40.2	8.5	6.1	7.4	7.4	7.4
85°	36.6	34.1	31.7	29.2	25.6	24.4	6.1	6.1	6.1	7.4	7.4
87.5°	9.7	8.5	9.7	9.7	7.4	8.5	4.9	4.9	4.9	6.1	6.1
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: P150459

CATALOG NUMBER: VXS-E04-LED-E1-SL3-HSS-7030

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	191.2	191.2	191.2	191.2	191.2
2.5°	162.0	162.0	159.5	163.2	163.2
5°	140.0	140.0	138.9	140.0	140.0
7.5°	127.9	126.6	126.6	126.6	127.9
10°	116.9	115.6	115.6	115.6	115.6
12.5°	107.2	105.9	104.8	105.9	105.9
15°	98.7	96.2	96.2	96.2	96.2
17.5°	91.3	88.9	87.7	87.7	87.7
20°	84.0	80.4	80.4	80.4	80.4
22.5°	76.7	73.1	73.1	73.1	73.1
25°	69.4	65.8	65.8	65.8	65.8
27.5°	63.3	59.7	59.7	59.7	59.7
30°	56.1	53.6	53.6	54.8	53.6
32.5°	51.2	47.5	47.5	48.7	48.7
35°	45.1	42.6	42.6	42.6	42.6
37.5°	39.0	36.6	36.6	36.6	36.6
40°	34.1	31.7	30.5	31.7	31.7
42.5°	29.2	26.8	25.6	25.6	25.6
45°	25.6	22.0	20.7	22.0	22.0
47.5°	20.7	18.2	18.2	19.5	19.5
50°	15.9	15.9	17.1	19.5	19.5
52.5°	14.6	14.6	17.1	19.5	19.5
55°	13.4	14.6	17.1	18.2	19.5
57.5°	12.2	14.6	17.1	18.2	18.2
60°	12.2	13.4	15.9	18.2	18.2
62.5°	11.0	12.2	14.6	17.1	17.1
65°	11.0	12.2	14.6	17.1	17.1
66°	11.0	12.2	14.6	17.1	17.1
67.5°	11.0	12.2	14.6	17.1	17.1
70°	11.0	12.2	14.6	15.9	15.9
72.5°	9.7	11.0	13.4	15.9	15.9
75°	9.7	11.0	13.4	15.9	15.9
77.5°	9.7	11.0	13.4	15.9	15.9
80°	9.7	11.0	13.4	14.6	15.9
82.5°	8.5	11.0	12.2	14.6	14.6
85°	8.5	9.7	12.2	13.4	14.6
87.5°	7.4	8.5	9.7	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)