

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: P149299

Luminaire Tested: **VXS-E02-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149299
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-7030
Description: VISION SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3349.4 lumens
Efficiency: N/A
Efficacy: 64.3 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): 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

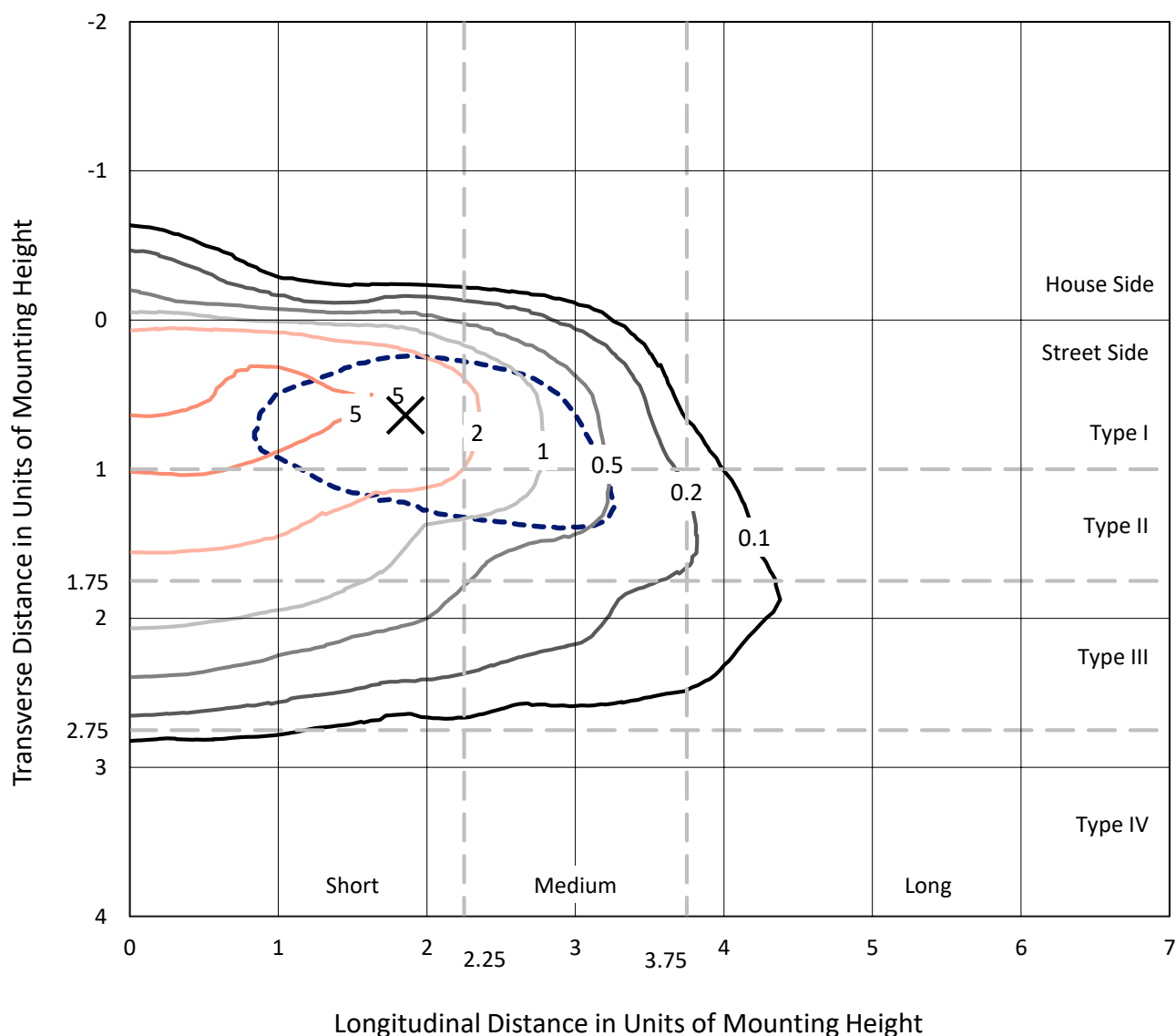


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

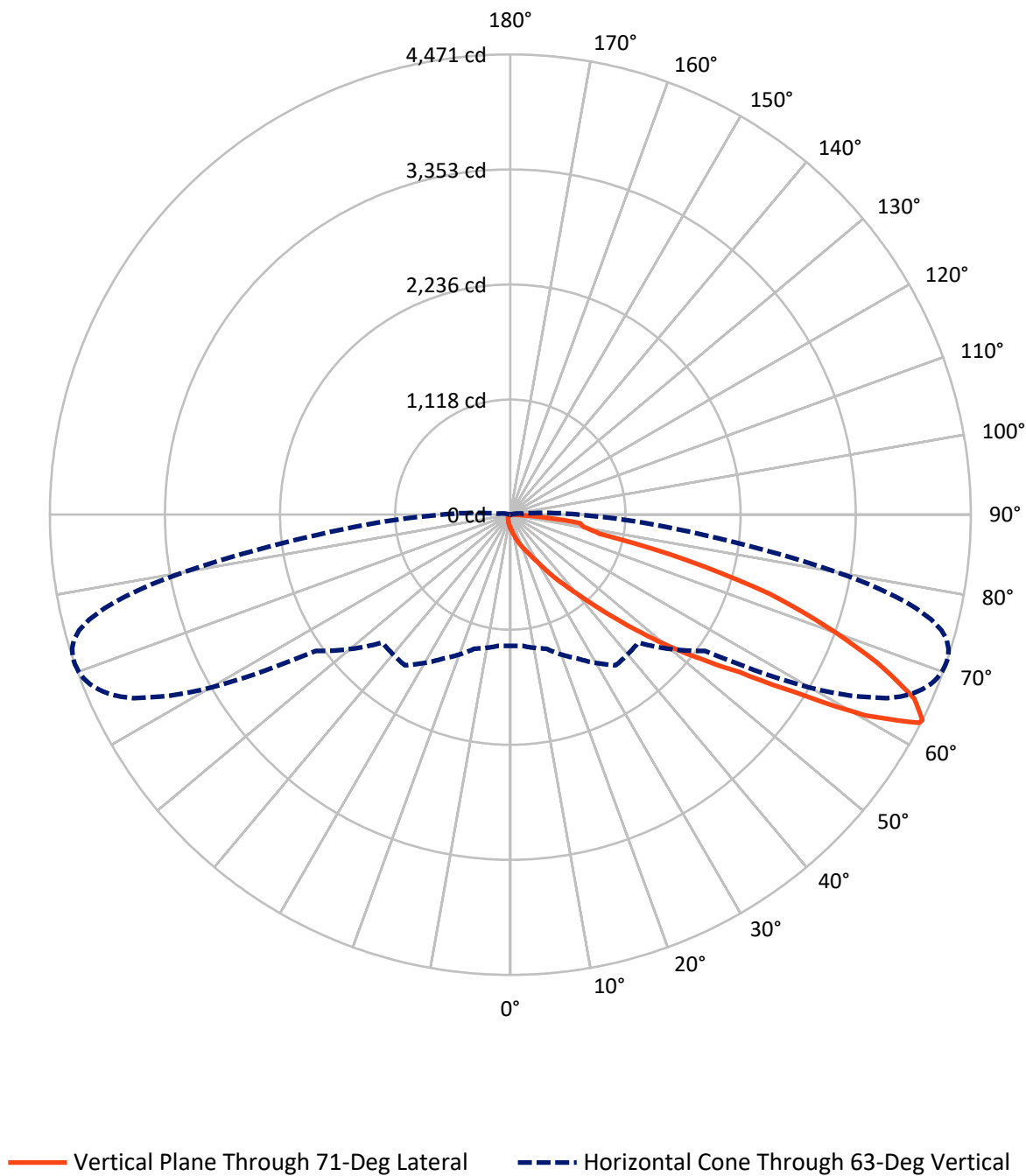


Based on 10 foot mounting height. Maximum calculated value = 7 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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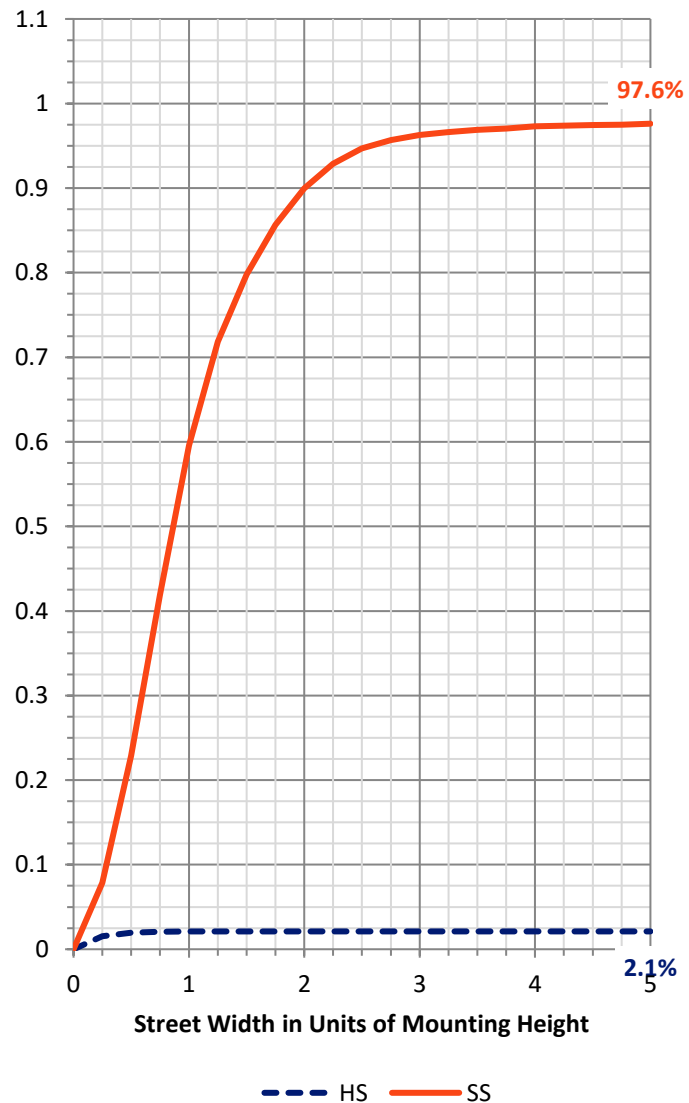
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	71.1	0.0	71.1
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	3278.3	0.0	3278.3
	% Fixture	97.9	0.0	97.9
Total	Lumens	3349.4	0.0	3349.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.2	0.4
10°-20°	55.1	1.6
20°-30°	111.9	3.3
30°-40°	273.3	8.2
40°-50°	611.2	18.2
50°-60°	859.4	25.7
60°-70°	1010.6	30.2
70°-80°	364.9	10.9
80°-90°	48.8	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°	3349.4	100.0
0°-180°	3349.4	100.0

Coefficient of Utilization



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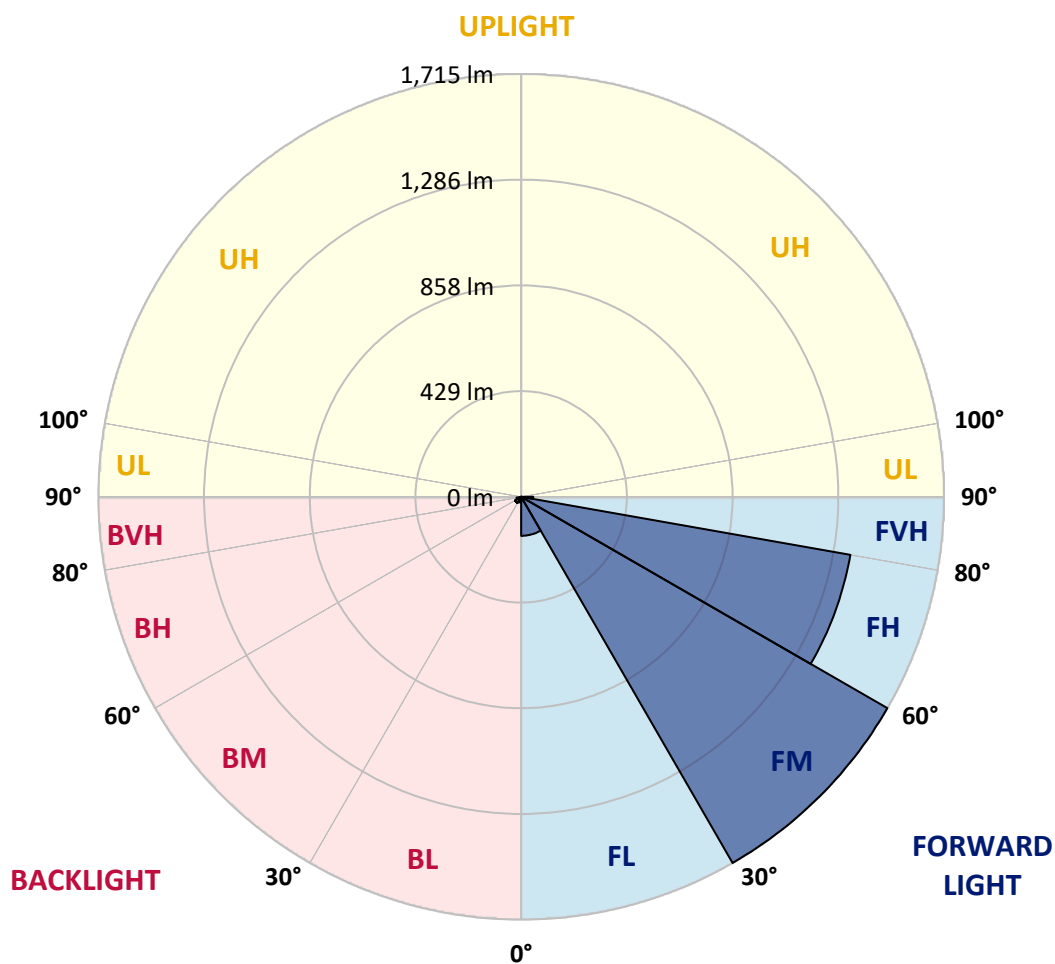
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	158.3	4.7			
FM	(30°-60°)	1715.3	51.2			
FH	(60°-80°)	1356.0	40.5			G1/1800
FVH	(80°-90°)	48.7	1.5			G1/100
BL	(0°-30°)	22.9	0.7	B0/110		
BM	(30°-60°)	28.7	0.9	B0/220		
BH	(60°-80°)	19.5	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°	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5
2.5°	168.1	169.8	168.7	165.6	162.0	157.1	152.8	152.8	152.2	150.4	151.0
5°	220.4	221.0	218.5	211.3	204.6	194.2	182.7	181.5	180.2	178.4	177.8
7.5°	271.6	274.0	271.6	263.6	250.3	234.4	216.2	214.3	210.7	210.7	208.3
10°	323.9	323.9	321.5	312.3	300.2	277.6	254.5	251.5	247.3	246.0	242.4
12.5°	361.0	361.0	359.9	355.0	345.3	325.2	297.1	294.1	288.6	286.8	282.5
15°	375.6	375.6	376.3	380.5	381.1	372.0	342.8	340.4	334.9	330.1	328.2
17.5°	384.9	384.2	384.2	390.3	401.2	407.4	388.5	386.0	380.0	377.5	371.4
20°	404.9	403.7	400.0	400.0	410.4	431.7	431.7	431.1	424.4	422.6	419.5
22.5°	434.7	433.6	422.6	413.5	418.3	445.1	470.1	468.8	466.4	463.9	462.2
25°	483.4	479.2	460.3	433.6	429.3	457.9	499.3	502.4	504.1	504.1	505.4
27.5°	557.1	551.7	518.1	468.3	449.3	478.5	531.6	537.6	543.1	544.4	549.8
30°	659.5	649.7	601.6	528.5	485.3	509.0	579.1	585.8	593.7	596.1	604.7
32.5°	827.5	822.0	775.8	666.1	573.6	568.7	645.4	654.0	664.4	668.6	679.0
35°	1083.2	1084.5	1046.7	948.1	820.2	753.2	764.1	771.5	775.1	787.9	793.4
37.5°	1256.8	1259.8	1268.3	1229.3	1138.0	1069.8	983.9	991.9	973.1	974.8	975.4
40°	1351.7	1361.5	1411.4	1449.2	1441.9	1402.3	1333.5	1337.7	1302.5	1294.5	1256.2
42.5°	1415.1	1427.9	1507.7	1624.6	1684.2	1720.1	1704.4	1702.5	1675.1	1664.8	1632.4
45°	1454.6	1466.2	1566.7	1739.1	1876.6	1981.3	2024.6	2029.4	2006.3	1996.0	1969.2
47.5°	1452.8	1466.2	1574.0	1781.7	1984.5	2151.8	2273.7	2279.7	2293.7	2284.6	2286.4
50°	1372.4	1385.3	1493.7	1709.2	1952.7	2229.7	2452.6	2472.1	2494.7	2509.8	2517.2
52.5°	1275.0	1284.1	1380.4	1585.0	1817.6	2197.5	2558.5	2592.1	2625.6	2654.2	2674.3
55°	1239.1	1249.4	1325.0	1494.8	1709.2	2062.4	2607.9	2657.2	2704.8	2751.6	2789.9
57.5°	1258.0	1267.8	1322.0	1452.2	1644.7	1919.9	2622.0	2698.7	2776.6	2852.7	2928.2
60°	1327.4	1337.7	1384.0	1491.8	1627.6	1837.6	2567.2	2694.4	2824.0	2956.8	3081.7
62.5°	1300.0	1304.2	1372.4	1561.2	1749.3	1767.7	2368.0	2545.8	2743.7	2948.3	3149.8
63°	1273.8	1278.7	1348.1	1542.4	1786.5	1757.3	2306.5	2494.1	2702.9	2923.3	3142.5
65°	1155.1	1155.6	1208.7	1362.1	1745.1	1775.5	2032.5	2211.5	2451.4	2715.6	2992.7
67.5°	862.2	857.9	909.1	1026.0	1370.1	1776.2	1744.5	1845.0	2011.8	2246.2	2494.7
70°	305.7	299.0	381.8	543.7	853.7	1452.8	1499.1	1505.8	1552.1	1678.8	1834.6
72.5°	99.3	101.0	121.8	199.1	393.4	977.9	1357.2	1336.6	1324.4	1323.7	1344.5
75°	39.6	40.2	48.7	88.3	176.6	471.3	1188.6	1200.1	1204.5	1210.5	1217.2
77.5°	18.9	20.7	27.4	49.3	87.7	233.2	850.7	948.7	1004.7	1047.9	1074.1
80°	6.7	7.9	15.2	30.5	40.8	107.2	448.2	540.7	622.9	728.8	820.2
82.5°	0.0	0.0	3.0	21.3	22.5	43.2	183.9	215.5	246.6	319.7	410.4
85°	0.0	0.0	0.0	6.1	6.7	7.4	62.1	74.9	84.0	98.0	113.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.6	1.9	3.6	9.1	14.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5
2.5°	149.7	149.2	149.2	148.0	147.4	146.1	145.5	143.7	143.1	143.1	143.1
5°	177.2	174.7	173.6	170.5	168.7	168.1	165.0	163.8	162.0	162.6	159.5
7.5°	207.7	203.4	201.6	197.3	196.1	191.8	190.6	187.6	185.7	182.1	180.8
10°	241.1	235.6	232.6	225.9	224.0	221.0	217.4	213.7	210.7	207.0	205.2
12.5°	279.5	274.6	272.2	263.0	258.8	254.5	249.6	244.8	239.9	236.9	232.6
15°	324.6	316.6	314.2	305.7	298.3	292.8	286.2	280.1	276.5	270.4	266.1
17.5°	369.0	361.0	359.3	346.4	338.5	334.9	327.6	319.7	313.0	306.8	300.2
20°	413.5	408.0	403.1	390.9	382.4	376.3	366.5	358.7	353.2	344.7	336.1
22.5°	457.9	452.4	448.8	436.0	428.1	419.5	411.0	402.5	394.6	384.2	374.5
25°	503.5	499.9	498.0	486.5	479.2	471.3	462.8	453.1	443.3	431.7	421.3
27.5°	551.1	552.2	548.6	546.2	538.2	532.7	519.4	512.6	505.4	491.4	478.5
30°	611.3	615.0	613.8	615.6	610.8	607.0	596.7	588.2	579.7	566.3	551.7
32.5°	687.5	692.3	694.7	701.5	699.1	697.8	694.7	682.6	676.5	653.4	647.3
35°	805.0	802.5	812.8	818.3	816.0	814.7	811.1	804.4	797.1	780.6	765.4
37.5°	957.8	960.2	963.9	953.0	945.6	945.0	934.1	927.4	917.0	898.8	880.5
40°	1237.9	1222.7	1205.6	1159.4	1139.3	1127.7	1095.4	1086.3	1068.6	1043.6	1024.8
42.5°	1602.0	1586.8	1535.6	1458.3	1416.9	1359.7	1333.5	1301.2	1276.3	1235.4	1213.6
45°	1963.7	1919.9	1913.8	1823.6	1772.5	1697.0	1650.2	1596.0	1539.3	1485.7	1446.7
47.5°	2268.8	2259.1	2229.2	2174.4	2126.8	2063.5	2003.3	1919.9	1861.5	1785.3	1715.2
50°	2513.0	2512.3	2501.3	2469.7	2430.2	2379.0	2326.0	2255.3	2189.0	2095.9	2020.9
52.5°	2695.6	2705.4	2709.0	2699.3	2684.0	2639.0	2612.2	2553.2	2497.1	2417.9	2337.0
55°	2829.5	2865.5	2883.7	2904.5	2900.2	2884.4	2883.1	2844.8	2819.2	2756.5	2699.3
57.5°	2995.1	3054.2	3110.9	3211.3	3215.0	3250.3	3268.6	3286.8	3291.7	3266.7	3247.9
60°	3205.9	3326.4	3433.6	3643.6	3698.4	3785.0	3840.9	3901.9	3953.6	3957.8	3956.7
62.5°	3354.4	3540.1	3713.1	4024.9	4131.4	4231.3	4306.1	4365.2	4401.1	4437.6	4454.7
63°	3358.7	3562.1	3745.9	4067.5	4179.5	4274.5	4345.7	4400.5	4438.2	4460.2	4471.2
65°	3255.8	3502.4	3721.6	4041.9	4147.3	4242.8	4280.0	4315.9	4334.2	4342.7	4310.4
67.5°	2759.6	3000.6	3256.4	3614.4	3704.6	3819.1	3849.4	3867.8	3876.3	3874.4	3847.0
70°	2063.5	2265.7	2550.1	2959.3	3078.5	3190.7	3260.1	3289.8	3299.6	3296.6	3255.8
72.5°	1440.6	1559.4	1793.8	2249.3	2411.8	2555.5	2641.5	2685.9	2695.0	2676.7	2639.0
75°	1209.8	1216.0	1268.9	1518.0	1670.3	1823.6	1920.5	1948.5	1930.3	1874.8	1778.5
77.5°	1080.2	1093.6	1093.6	1130.8	1160.5	1203.2	1212.3	1144.1	1065.0	962.7	879.9
80°	906.0	953.0	985.8	1013.2	1016.3	1007.8	985.2	946.8	885.9	808.0	721.6
82.5°	550.5	643.0	680.7	822.0	891.4	938.3	934.6	883.5	837.2	756.3	682.6
85°	138.9	149.7	162.6	211.3	236.9	289.2	322.1	337.3	342.8	314.8	285.0
87.5°	13.4	9.1	15.2	11.6	16.5	12.2	16.5	15.2	18.9	20.1	22.0
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5
2.5°	141.9	141.2	140.6	140.0	139.5	138.9	137.6	137.6	136.4	135.8	135.1
5°	157.7	156.5	155.9	154.6	152.8	151.6	149.7	147.4	145.5	144.9	143.7
7.5°	177.8	174.7	173.6	171.7	169.2	165.6	163.2	161.3	158.3	156.5	152.8
10°	200.3	197.3	193.7	189.9	186.3	182.1	179.1	176.6	171.7	169.2	165.0
12.5°	228.9	223.4	219.2	214.3	209.4	204.6	200.9	193.7	189.3	183.9	180.2
15°	258.1	253.3	248.4	242.4	235.0	227.2	223.4	216.8	211.3	202.8	197.9
17.5°	293.5	284.4	277.1	269.7	263.0	255.8	248.4	238.0	230.2	222.9	213.2
20°	328.2	317.2	309.3	299.6	289.8	278.2	269.7	262.5	251.5	241.8	231.4
22.5°	365.4	354.4	341.6	331.8	318.4	309.3	297.7	285.6	274.6	261.9	249.0
25°	410.4	398.9	384.2	371.4	356.2	343.4	329.4	315.4	302.0	287.4	271.0
27.5°	465.8	453.7	437.8	422.6	402.5	386.6	373.3	354.4	337.3	319.1	300.2
30°	535.9	522.5	502.9	481.0	460.9	443.3	424.4	399.5	380.5	358.7	334.3
32.5°	627.2	611.3	585.2	564.5	539.5	516.4	490.2	465.2	438.4	409.7	381.8
35°	742.3	727.7	697.2	666.7	639.4	611.9	579.1	550.5	512.6	478.0	442.1
37.5°	861.6	835.4	807.4	774.5	740.4	707.6	667.4	627.8	584.6	546.8	501.8
40°	998.0	966.3	943.2	907.9	859.8	812.8	775.8	726.4	672.2	621.7	568.7
42.5°	1184.9	1149.6	1108.2	1054.6	1019.9	965.1	917.0	858.5	787.4	730.7	666.7
45°	1401.0	1353.0	1312.7	1261.0	1219.1	1150.8	1094.8	1016.9	945.6	871.3	793.4
47.5°	1647.7	1588.0	1529.5	1478.4	1411.4	1344.5	1273.2	1190.4	1099.1	1017.5	924.9
50°	1930.8	1846.2	1765.2	1699.5	1607.5	1530.2	1452.8	1359.7	1258.5	1164.9	1059.5
52.5°	2245.6	2147.6	2040.4	1939.4	1832.7	1733.6	1640.4	1533.2	1420.5	1306.1	1188.6
55°	2625.6	2551.9	2425.9	2297.4	2154.9	2022.2	1902.2	1769.4	1632.4	1482.1	1358.4
57.5°	3220.5	3184.6	3079.2	2950.8	2765.0	2603.6	2400.3	2237.7	2039.2	1832.2	1672.6
60°	4026.6	3982.2	3923.1	3819.1	3671.7	3452.4	3228.4	2975.6	2673.7	2386.8	2114.7
62.5°	4456.6	4440.7	4392.6	4320.7	4183.1	4010.3	3784.4	3506.6	3165.7	2817.4	2470.3
63°	4469.3	4449.2	4407.9	4334.7	4213.6	4046.1	3824.5	3554.7	3221.0	2866.1	2511.7
65°	4296.4	4288.5	4246.4	4166.7	4083.9	3956.1	3784.4	3552.3	3272.2	2936.7	2584.1
67.5°	3810.5	3786.7	3722.2	3697.8	3640.0	3551.1	3420.2	3260.6	3060.3	2796.7	2492.2
70°	3222.9	3187.6	3106.6	3063.4	2992.7	2936.7	2857.0	2743.1	2619.5	2435.6	2208.5
72.5°	2600.0	2526.9	2452.6	2340.0	2241.3	2141.5	2053.2	1972.8	1837.1	1762.8	1590.5
75°	1688.5	1555.8	1428.5	1258.0	1104.6	968.8	836.6	769.6	630.3	573.6	492.6
77.5°	801.3	727.0	627.2	549.8	451.2	368.4	300.8	225.9	177.2	138.9	105.9
80°	646.6	583.9	523.6	453.7	379.4	302.6	232.0	173.6	123.0	85.3	60.3
82.5°	576.6	508.4	434.2	386.0	335.5	274.6	225.3	183.9	135.8	99.3	67.6
85°	224.0	188.8	145.5	118.8	92.5	76.1	68.8	47.5	37.1	29.2	22.5
87.5°	19.5	15.9	12.7	8.5	9.1	4.9	5.5	3.6	3.0	3.0	2.5
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5	128.5
2.5°	134.6	134.0	133.4	132.1	132.1	130.9	130.3	129.7	126.6	120.0	114.5
5°	141.2	140.0	138.9	137.0	135.8	134.0	132.7	130.9	124.2	111.4	100.5
7.5°	151.0	148.6	146.7	143.1	141.2	138.9	137.0	134.0	123.0	103.5	88.3
10°	162.6	158.3	155.2	151.0	147.4	144.4	141.2	137.0	121.8	95.0	77.3
12.5°	176.6	171.7	165.6	160.7	155.9	151.6	147.4	141.9	120.0	87.7	68.8
15°	190.6	183.3	179.1	172.3	165.6	159.5	153.5	148.6	120.5	79.8	61.5
17.5°	206.4	199.1	189.9	182.7	175.3	167.5	160.1	150.4	117.5	73.7	56.1
20°	221.7	211.3	202.8	193.7	183.3	173.6	164.4	155.9	115.1	67.6	51.2
22.5°	238.0	225.9	214.9	203.4	190.6	179.6	168.7	157.7	110.8	62.1	46.8
25°	258.1	244.1	228.3	214.3	200.9	187.6	173.6	160.1	106.5	57.2	43.8
27.5°	282.5	264.2	248.4	230.8	211.9	194.8	179.6	165.0	102.3	53.6	40.8
30°	313.6	292.2	269.7	247.3	227.2	207.7	186.3	168.1	98.0	49.9	37.7
32.5°	355.0	328.2	300.8	274.6	247.8	222.9	200.3	176.6	95.6	46.8	34.7
35°	409.7	375.1	341.6	308.7	276.5	246.0	216.8	189.9	95.6	43.2	31.1
37.5°	461.6	421.3	378.8	337.9	299.6	264.2	229.5	197.3	90.8	40.2	28.0
40°	517.6	469.4	419.5	371.4	325.2	281.3	241.8	204.6	86.4	36.6	25.0
42.5°	603.4	542.5	477.4	421.3	365.9	311.7	262.5	218.5	80.9	32.8	22.0
45°	716.1	638.8	562.0	493.8	423.2	356.8	298.3	244.1	79.8	29.8	18.9
47.5°	836.6	745.3	655.1	568.1	485.3	408.0	337.9	272.7	79.8	26.8	16.5
50°	956.6	842.1	745.9	644.9	551.7	460.3	376.9	302.6	80.4	24.4	13.4
52.5°	1065.0	942.6	834.8	717.9	615.0	509.0	418.3	331.8	79.2	21.3	11.0
55°	1215.3	1071.7	946.8	817.7	697.2	577.8	474.9	375.6	79.8	18.9	9.1
57.5°	1492.4	1323.7	1173.4	1004.0	865.3	711.2	586.3	465.8	87.0	15.9	6.7
60°	1890.1	1670.8	1459.6	1253.2	1076.6	893.3	731.3	589.4	102.3	12.7	4.9
62.5°	2157.3	1870.6	1618.4	1390.8	1185.5	993.7	817.1	655.8	112.6	10.4	3.0
63°	2184.8	1888.2	1634.9	1399.9	1190.4	998.5	820.8	660.6	113.3	9.7	3.0
65°	2236.5	1918.7	1644.0	1401.7	1185.5	991.9	818.3	660.0	114.5	7.9	2.5
67.5°	2177.4	1871.7	1591.1	1349.3	1142.9	952.3	787.9	635.6	113.9	5.5	1.9
70°	1947.3	1694.0	1447.4	1222.1	1034.5	862.2	717.3	579.7	104.8	3.6	1.2
72.5°	1429.7	1257.4	1066.2	903.6	779.4	647.3	552.2	435.3	80.9	2.5	0.6
75°	423.8	386.0	324.6	286.2	252.6	208.8	185.7	144.9	41.5	1.2	0.0
77.5°	84.7	76.7	68.8	62.7	59.1	50.6	48.1	39.6	17.1	0.6	0.0
80°	44.5	36.6	31.1	27.4	23.7	19.5	16.5	13.4	3.0	0.0	0.0
82.5°	42.6	28.6	20.7	17.1	14.6	11.6	9.1	6.7	1.9	0.0	0.0
85°	15.9	12.2	9.1	7.4	6.1	5.5	4.2	3.6	0.0	0.0	0.0
87.5°	2.5	1.9	1.9	1.2	1.2	0.6	0.6	0.6	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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CATALOG NUMBER: VXS-E02-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	128.5	128.5	128.5	128.5	128.5	128.5	128.5
2.5°	109.0	104.1	101.7	98.7	98.7	98.0	99.3
5°	90.8	84.0	79.2	75.5	76.1	74.3	74.9
7.5°	76.7	70.1	65.8	63.3	62.7	62.1	62.1
10°	66.3	60.3	56.6	54.8	54.2	54.2	54.2
12.5°	59.1	53.0	49.9	48.7	48.7	48.1	48.1
15°	53.0	48.1	45.1	43.8	43.8	43.2	43.8
17.5°	48.1	43.2	40.8	39.6	39.6	39.0	39.0
20°	43.8	39.6	37.1	35.3	35.3	34.7	35.3
22.5°	40.2	36.0	32.8	31.7	31.1	30.5	31.1
25°	36.6	32.2	29.2	27.4	26.8	26.8	26.2
27.5°	33.5	29.2	25.6	23.7	23.1	23.1	22.5
30°	30.5	25.6	22.0	20.1	19.5	19.5	19.5
32.5°	27.4	22.0	18.9	17.1	16.5	16.5	16.5
35°	24.4	18.9	15.9	14.0	13.4	13.4	13.4
37.5°	20.7	15.9	12.2	11.0	10.4	9.7	9.7
40°	17.6	12.2	9.1	7.9	6.7	6.7	6.7
42.5°	14.6	9.7	6.7	4.9	4.2	3.6	4.2
45°	12.2	7.4	4.2	2.5	1.9	1.9	1.9
47.5°	9.7	4.9	1.9	0.6	0.6	0.6	0.6
50°	7.4	3.0	0.6	0.0	0.0	0.6	0.6
52.5°	5.5	1.9	0.0	0.0	0.0	0.0	0.0
55°	3.0	0.6	0.0	0.0	0.0	0.0	0.0
57.5°	1.9	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.2	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
63°	0.6	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.6	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)