

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: P150465

Luminaire Tested: **VXS-F04-LED-E1-SL3-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P150465
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-F04-LED-E1-SL3-HSS
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (28) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5725.2 lumens
Efficiency: N/A
Efficacy: 56.0 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): 102.2
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



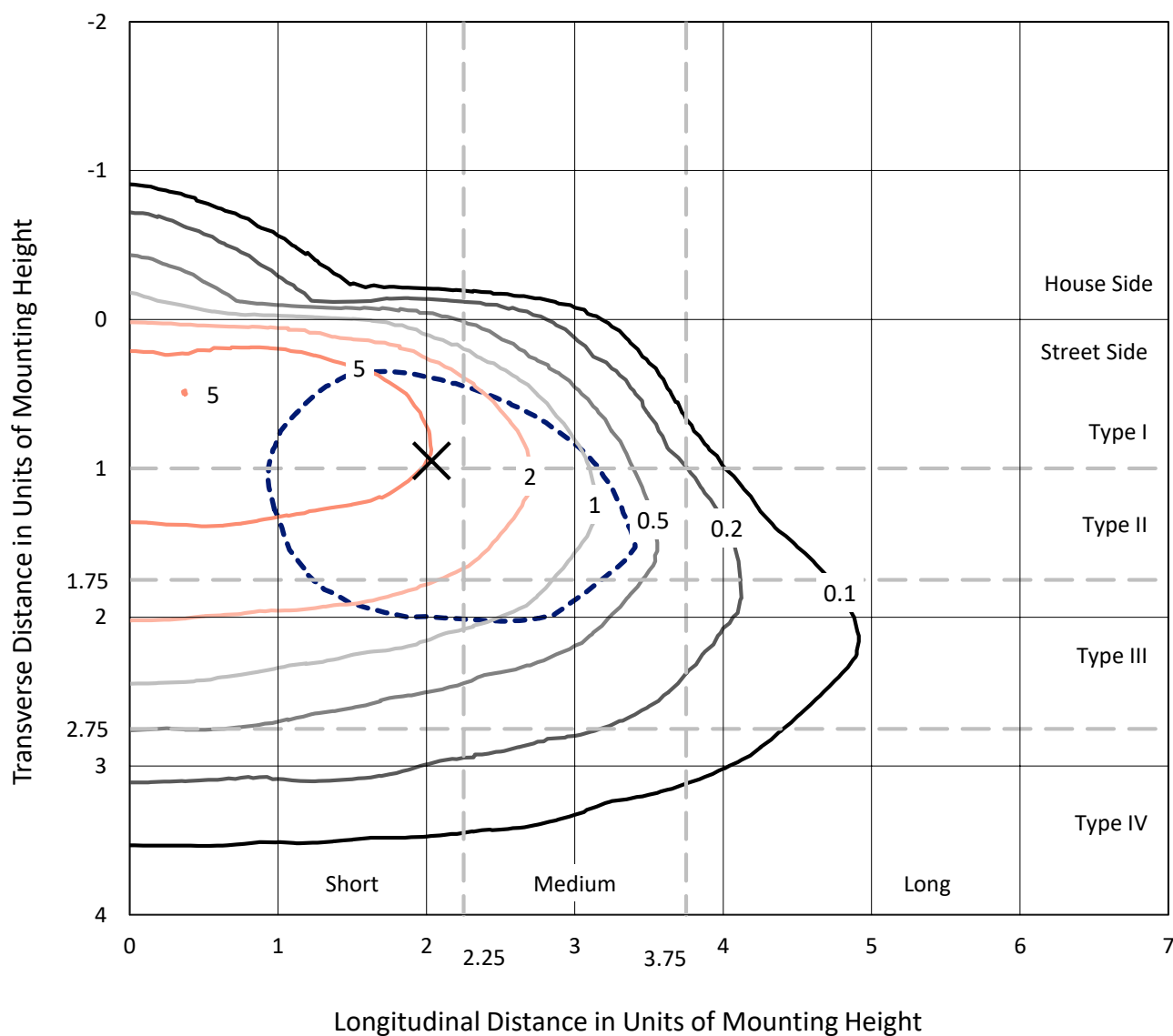
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

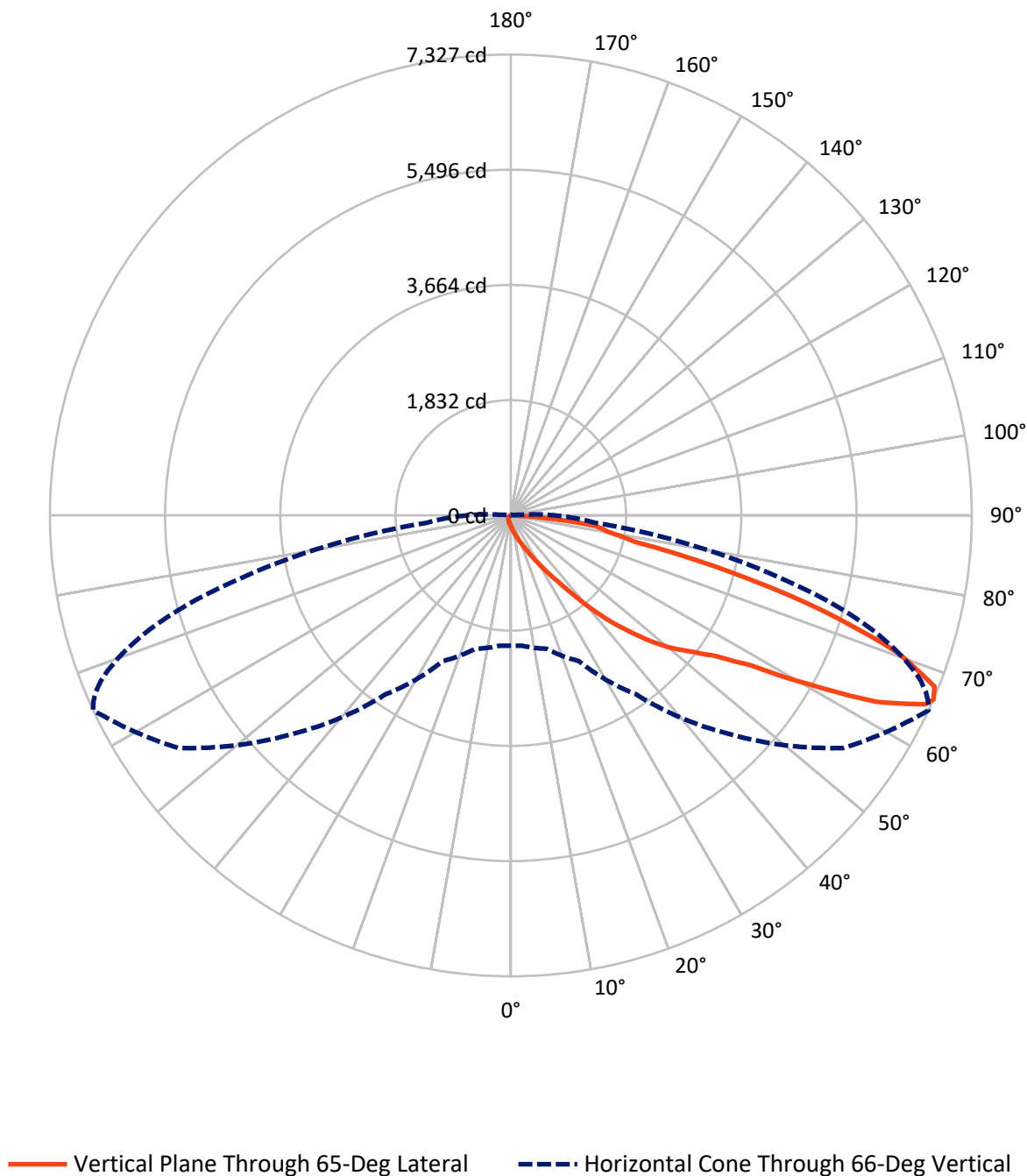


Based on 10 foot mounting height. Maximum calculated value = 9.4 fc
 Type III - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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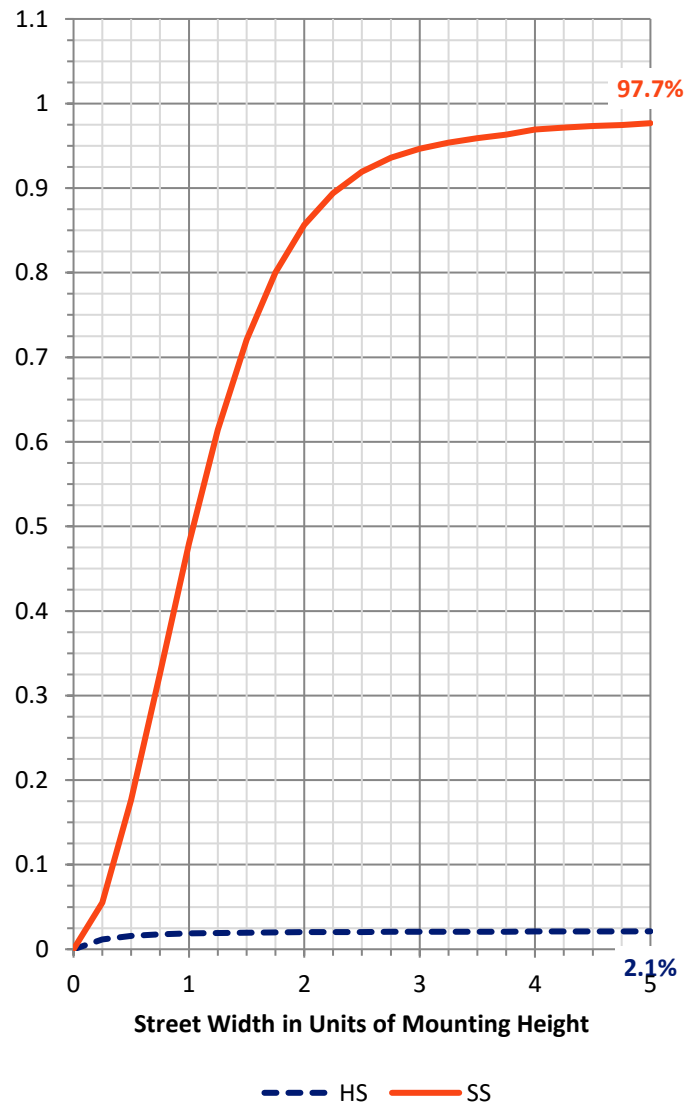
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	124.1	0.0	124.1
	% Fixture	2.2	0.0	2.2
Street Side	Lumens	5601.2	0.0	5601.2
	% Fixture	97.8	0.0	97.8
Total	Lumens	5725.2	0.0	5725.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	19.3	0.3
10°-20°	82.0	1.4
20°-30°	176.9	3.1
30°-40°	377.8	6.6
40°-50°	835.5	14.6
50°-60°	1416.0	24.7
60°-70°	1889.5	33.0
70°-80°	832.3	14.5
80°-90°	95.9	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°	5725.2	100.0
0°-180°	5725.2	100.0

Coefficient of Utilization



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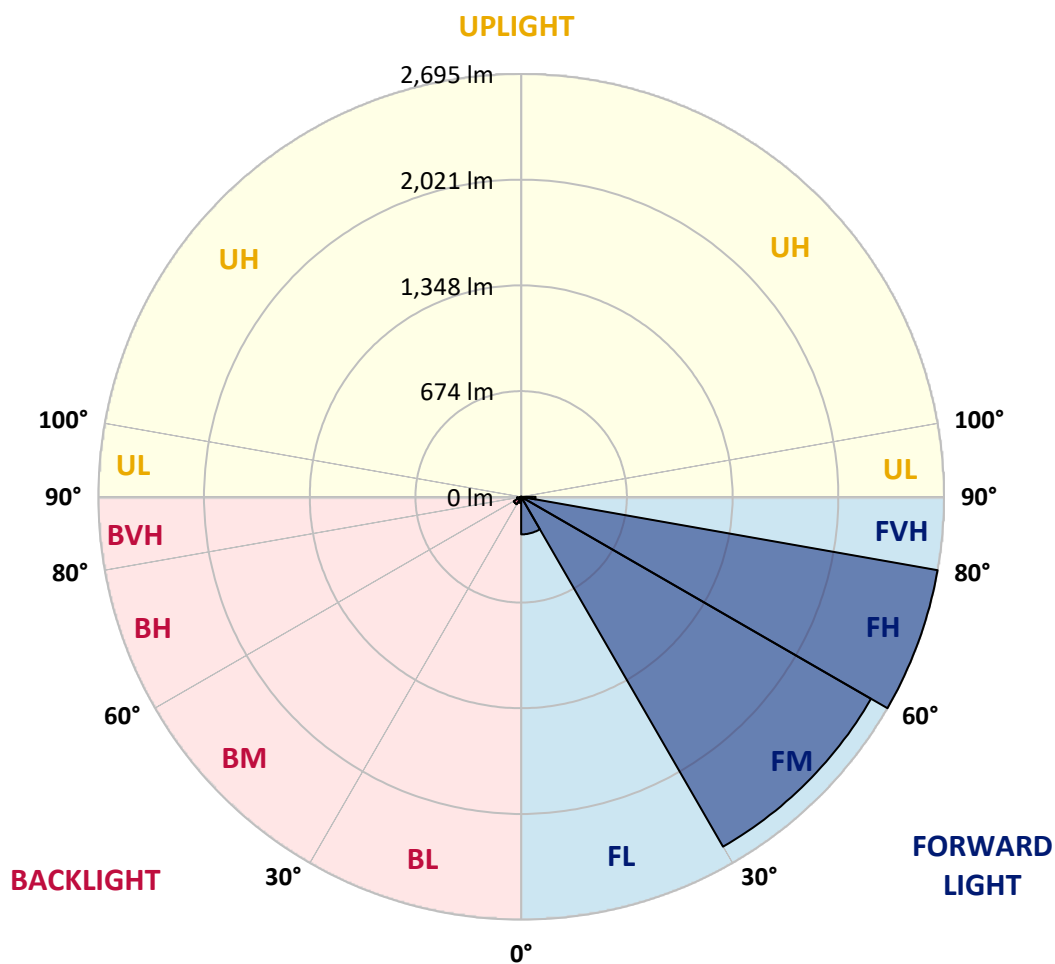
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	239.1	4.2			
FM	(30°-60°)	2574.8	45.0			
FH	(60°-80°)	2695.2	47.1			G2/5000
FVH	(80°-90°)	92.0	1.6			G1/100
BL	(0°-30°)	39.1	0.7	B0/110		
BM	(30°-60°)	54.5	1.0	B0/220		
BH	(60°-80°)	26.6	0.5	B0/110		G0/110
BVH	(80°-90°)	3.8	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	66°	67°	68°
0°	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8
2.5°	217.9	216.8	212.4	212.4	205.8	201.5	196.0	190.5	190.5	189.3	188.2
5°	288.4	281.8	280.7	268.6	258.7	244.4	231.2	213.6	211.3	209.1	208.1
7.5°	366.5	365.4	355.5	341.2	321.5	295.0	268.6	240.0	235.5	233.4	228.9
10°	467.8	462.3	449.1	424.9	395.1	359.9	317.0	271.9	266.3	262.0	259.8
12.5°	564.7	554.7	547.0	516.3	478.8	427.0	375.3	310.4	306.0	300.5	291.7
15°	654.9	646.1	633.0	606.5	564.7	499.7	439.2	359.9	348.9	341.2	334.6
17.5°	725.4	719.9	704.5	674.7	629.6	572.3	499.7	410.6	401.8	391.8	379.8
20°	792.5	784.8	760.6	719.9	671.4	627.4	571.3	476.6	464.5	452.4	439.2
22.5°	856.4	848.6	809.0	741.9	690.2	671.4	651.6	551.4	532.7	522.8	509.6
25°	945.5	929.0	867.4	760.6	691.2	705.6	739.7	648.3	630.7	616.4	595.4
27.5°	1065.5	1043.4	946.6	788.1	695.6	743.0	840.9	766.1	747.4	730.9	707.8
30°	1200.8	1186.5	1071.0	854.1	727.6	798.0	954.3	915.8	893.8	874.0	846.4
32.5°	1337.3	1317.5	1203.1	979.6	813.4	904.8	1096.3	1089.7	1061.0	1042.4	1012.6
35°	1457.3	1447.5	1362.7	1185.5	1009.3	1091.9	1285.6	1293.4	1268.0	1248.2	1215.1
37.5°	1538.8	1538.8	1522.3	1406.7	1320.8	1382.5	1564.1	1565.2	1539.9	1494.7	1478.2
40°	1580.6	1592.7	1652.1	1674.2	1669.7	1749.0	1929.5	1909.7	1888.8	1865.7	1810.7
42.5°	1666.4	1677.5	1804.0	1956.0	2055.0	2159.6	2283.9	2277.3	2252.0	2210.2	2159.6
45°	1811.7	1826.0	1976.9	2217.9	2421.6	2570.2	2649.4	2618.5	2593.3	2553.6	2527.3
47.5°	1996.7	2024.1	2194.8	2493.1	2738.5	2984.0	3066.5	2985.1	2963.1	2932.2	2889.3
50°	2193.7	2220.1	2401.8	2742.9	3020.3	3313.1	3450.7	3313.1	3281.1	3271.3	3222.8
52.5°	2364.4	2386.3	2561.3	2935.5	3236.1	3579.5	3779.8	3598.2	3575.0	3542.1	3506.8
55°	2465.6	2483.2	2647.2	3028.0	3382.5	3819.4	4097.9	3938.3	3904.1	3891.0	3840.3
57.5°	2499.7	2517.3	2664.8	3040.1	3461.7	4038.4	4484.2	4489.7	4449.0	4401.7	4386.3
60°	2499.7	2519.5	2643.8	3010.4	3538.8	4271.8	4999.4	5458.3	5370.4	5361.6	5305.4
62.5°	2396.3	2414.9	2540.4	2919.1	3642.2	4586.6	5717.0	6527.2	6501.9	6444.6	6352.1
65°	2171.7	2182.7	2306.0	2685.7	3602.6	4876.1	6339.0	7238.2	7197.5	7085.2	6966.3
66°	2070.5	2079.2	2194.8	2552.5	3472.7	4915.8	6449.0	7327.4	7260.2	7165.6	7031.3
67.5°	1924.0	1939.5	2020.9	2304.9	3161.2	4778.1	6379.7	7264.7	7206.3	7091.8	6957.5
70°	1284.6	1273.5	1560.8	1768.8	2408.3	3893.2	5723.6	6522.8	6523.8	6469.9	6416.0
72.5°	609.7	616.4	700.0	1088.6	1576.2	2600.9	4555.8	5206.3	5281.1	5184.2	5117.2
75°	438.0	448.0	498.7	665.9	940.0	1560.8	2953.2	3641.1	3643.3	3471.6	3318.7
77.5°	127.7	133.2	187.2	410.6	704.5	1053.4	1696.2	2024.1	1976.9	1853.6	1738.0
80°	52.8	52.8	55.0	131.0	282.9	715.4	1186.5	1558.5	1553.1	1505.8	1437.5
82.5°	19.8	20.9	26.4	53.9	67.2	176.1	791.4	1352.7	1349.4	1282.3	1233.9
85°	2.2	2.2	6.6	23.1	25.3	33.1	158.5	596.6	593.3	596.6	522.8
87.5°	0.0	0.0	1.1	2.2	3.3	4.4	6.6	23.1	25.3	24.2	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):

	69°	70°	71°	72°	73°	74°	75°	76°	77°	78°	79°
0°	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8
2.5°	188.2	186.0	186.0	184.9	184.9	184.9	183.8	182.7	182.7	181.7	180.5
5°	205.8	203.6	202.5	200.3	199.3	198.1	196.0	194.8	192.6	191.5	190.5
7.5°	226.7	222.4	221.2	217.9	214.6	212.4	210.3	206.9	204.8	200.3	199.3
10°	253.2	247.7	243.2	238.9	235.5	230.1	226.7	222.4	217.9	214.6	211.3
12.5°	287.3	279.6	273.0	268.6	260.8	254.3	247.7	244.4	235.5	231.2	225.6
15°	324.7	315.9	308.2	299.4	293.9	282.9	274.1	264.1	259.8	252.0	243.2
17.5°	373.2	358.9	346.7	337.9	326.9	315.9	306.0	296.1	282.9	274.1	263.1
20°	424.9	412.7	396.3	380.8	367.7	354.4	340.1	326.9	314.8	300.5	287.3
22.5°	490.9	473.3	453.5	438.0	420.5	406.1	386.3	368.7	348.9	330.3	314.8
25°	574.6	551.4	532.7	510.7	489.8	467.8	443.6	421.6	396.3	378.7	352.2
27.5°	678.0	656.1	630.7	602.1	581.1	548.2	516.3	488.7	459.0	431.5	401.8
30°	810.2	778.2	751.8	724.2	682.4	650.5	613.1	575.6	534.9	507.5	462.3
32.5°	968.6	934.5	894.8	855.2	816.7	771.6	725.4	679.2	634.0	583.4	537.1
35°	1162.4	1121.7	1076.5	1033.6	974.1	925.7	867.4	803.5	752.8	694.5	636.2
37.5°	1418.8	1351.7	1312.0	1266.9	1186.5	1120.5	1055.5	991.7	902.6	840.9	758.3
40°	1740.2	1700.6	1635.6	1563.0	1490.4	1403.4	1315.3	1230.6	1127.2	1041.2	945.5
42.5°	2117.7	2059.4	1993.4	1888.8	1815.0	1712.6	1612.5	1500.2	1373.7	1263.6	1151.3
45°	2472.1	2402.8	2352.2	2247.7	2170.6	2049.5	1928.4	1809.5	1663.1	1521.1	1391.3
47.5°	2855.2	2797.9	2714.3	2629.5	2551.4	2414.9	2283.9	2139.8	1985.7	1817.3	1648.8
50°	3192.0	3146.9	3089.6	2987.3	2900.3	2785.9	2631.8	2474.4	2279.6	2112.2	1920.7
52.5°	3478.2	3443.0	3362.6	3289.9	3211.8	3103.9	2966.4	2815.5	2605.4	2421.6	2203.6
55°	3816.2	3790.8	3720.4	3675.2	3605.9	3502.4	3373.7	3233.9	3011.5	2811.2	2564.7
57.5°	4369.7	4349.9	4288.3	4269.6	4201.3	4111.1	3952.6	3802.9	3543.1	3294.4	3012.6
60°	5286.6	5247.0	5156.8	5110.6	4966.3	4845.3	4639.5	4433.6	4119.9	3802.9	3463.9
62.5°	6268.5	6157.3	5985.6	5838.1	5633.4	5423.1	5148.0	4833.2	4465.5	4089.1	3699.5
65°	6797.9	6608.6	6391.8	6157.3	5892.0	5582.8	5236.1	4858.4	4463.3	4066.0	3654.3
66°	6858.4	6645.0	6414.9	6154.0	5859.1	5529.9	5177.7	4781.5	4370.9	3983.4	3571.8
67.5°	6782.5	6559.1	6315.9	6026.3	5707.2	5365.9	4996.1	4584.5	4189.2	3796.3	3395.6
70°	6250.9	6028.5	5811.7	5506.8	5166.7	4823.3	4473.3	4013.2	3639.0	3277.9	2921.2
72.5°	4991.7	4840.8	4626.2	4365.4	4034.1	3631.2	3339.5	2927.9	2603.1	2253.2	1976.9
75°	3119.4	2906.9	2641.7	2309.2	2056.1	1729.2	1558.5	1246.0	1061.0	899.3	743.0
77.5°	1594.9	1435.3	1249.3	1062.2	882.8	704.5	544.9	385.3	259.8	180.5	134.3
80°	1317.5	1176.7	1022.6	851.9	693.5	538.2	387.5	264.1	168.4	110.1	85.8
82.5°	1088.6	969.7	832.1	673.7	536.1	422.7	293.9	191.5	118.9	77.1	60.5
85°	463.4	420.5	324.7	257.5	193.7	143.1	100.2	67.2	47.4	38.5	35.2
87.5°	19.8	22.0	20.9	16.5	12.1	12.1	11.0	8.8	8.8	8.8	8.8
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):

	80°	81°	82°	83°	84°	85°	95°	105°	115°	125°	135°
0°	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8	172.8
2.5°	180.5	179.4	178.3	178.3	177.2	176.1	169.5	164.0	157.4	153.0	148.6
5°	188.2	187.2	184.9	183.8	181.7	180.5	166.2	154.1	144.1	136.5	131.0
7.5°	196.0	194.8	191.5	188.2	187.2	184.9	161.8	146.4	133.2	124.4	118.9
10°	205.8	202.5	199.3	194.8	191.5	188.2	157.4	137.6	123.3	115.5	110.1
12.5°	220.1	214.6	209.1	203.6	199.3	193.7	155.2	129.8	115.5	106.7	101.2
15°	236.7	228.9	222.4	215.8	208.1	202.5	150.8	123.3	109.0	100.2	93.6
17.5°	252.0	243.2	233.4	223.4	215.8	208.1	146.4	116.7	102.4	93.6	86.9
20°	274.1	260.8	248.8	236.7	225.6	215.8	139.8	110.1	96.9	86.9	80.3
22.5°	298.2	282.9	267.5	251.0	236.7	223.4	134.3	104.6	91.4	81.5	73.8
25°	329.1	310.4	289.5	268.6	252.0	234.4	128.8	99.1	85.8	76.0	68.3
27.5°	372.0	345.6	322.5	296.1	270.8	251.0	124.4	94.6	80.3	70.5	62.7
30°	430.4	391.8	355.5	326.9	297.2	268.6	120.0	89.1	76.0	65.0	56.2
32.5°	495.3	450.2	408.4	365.4	328.0	295.0	115.5	84.8	70.5	59.5	51.7
35°	575.6	518.4	462.3	412.7	367.7	323.6	111.2	80.3	66.0	53.9	46.2
37.5°	691.2	619.7	545.9	482.1	423.7	365.4	107.9	76.0	60.5	48.4	40.7
40°	849.7	757.3	667.0	580.1	504.1	431.5	103.4	71.5	56.2	44.0	36.4
42.5°	1021.5	909.2	790.3	692.3	587.8	496.4	99.1	67.2	51.7	39.6	31.9
45°	1235.0	1095.2	951.0	817.8	690.2	572.3	94.6	62.7	46.2	35.2	27.6
47.5°	1468.3	1290.1	1127.2	959.8	807.9	667.0	89.1	59.5	41.9	30.8	24.2
50°	1708.3	1520.1	1314.2	1123.8	943.3	761.7	83.6	53.9	37.4	27.6	19.8
52.5°	1966.9	1744.6	1534.4	1297.7	1087.5	886.1	78.1	49.5	34.1	24.2	16.5
55°	2296.1	2047.3	1800.7	1535.4	1282.3	1030.3	72.6	44.0	29.7	20.9	13.2
57.5°	2709.9	2414.9	2112.2	1812.8	1505.8	1219.6	68.3	38.5	25.3	17.6	11.0
60°	3100.6	2756.2	2389.6	2045.1	1698.3	1364.9	61.7	34.1	22.0	14.3	11.0
62.5°	3303.2	2910.3	2515.1	2135.3	1765.5	1416.6	55.0	28.6	18.8	12.1	9.9
65°	3253.7	2853.1	2469.9	2086.9	1724.8	1383.6	48.4	25.3	16.5	11.0	9.9
66°	3182.1	2785.9	2400.6	2036.3	1690.7	1348.4	45.1	24.2	15.4	11.0	8.8
67.5°	3025.8	2642.8	2275.1	1936.2	1597.1	1281.2	40.7	22.0	14.3	9.9	8.8
70°	2584.5	2236.6	1942.7	1641.1	1364.9	1079.8	33.1	18.8	12.1	8.8	8.8
72.5°	1710.5	1473.9	1277.9	1099.6	919.1	713.3	27.6	15.4	9.9	8.8	7.7
75°	645.0	583.4	500.8	450.2	393.0	344.6	22.0	9.9	7.7	7.7	7.7
77.5°	114.5	105.7	93.6	85.8	79.3	72.6	17.6	6.6	6.6	7.7	7.7
80°	77.1	71.5	65.0	59.5	55.0	49.5	12.1	5.5	6.6	6.6	7.7
82.5°	55.0	51.7	48.4	44.0	40.7	36.4	7.7	5.5	6.6	6.6	6.6
85°	33.1	30.8	28.6	26.4	23.1	22.0	5.5	5.5	5.5	6.6	6.6
87.5°	8.8	7.7	8.8	8.8	6.6	7.7	4.4	4.4	4.4	5.5	5.5
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: P150465

CATALOG NUMBER: VXS-F04-LED-E1-SL3-HSS

CANDELA DISTRIBUTION (continued):

	145°	155°	165°	175°	180°
0°	172.8	172.8	172.8	172.8	172.8
2.5°	146.4	146.4	144.1	147.5	147.5
5°	126.6	126.6	125.5	126.6	126.6
7.5°	115.5	114.5	114.5	114.5	115.5
10°	105.7	104.6	104.6	104.6	104.6
12.5°	96.9	95.8	94.6	95.8	95.8
15°	89.1	86.9	86.9	86.9	86.9
17.5°	82.6	80.3	79.3	79.3	79.3
20°	76.0	72.6	72.6	72.6	72.6
22.5°	69.3	66.0	66.0	66.0	66.0
25°	62.7	59.5	59.5	59.5	59.5
27.5°	57.2	53.9	53.9	53.9	53.9
30°	50.7	48.4	48.4	49.5	48.4
32.5°	46.2	42.9	42.9	44.0	44.0
35°	40.7	38.5	38.5	38.5	38.5
37.5°	35.2	33.1	33.1	33.1	33.1
40°	30.8	28.6	27.6	28.6	28.6
42.5°	26.4	24.2	23.1	23.1	23.1
45°	23.1	19.8	18.8	19.8	19.8
47.5°	18.8	16.5	16.5	17.6	17.6
50°	14.3	14.3	15.4	17.6	17.6
52.5°	13.2	13.2	15.4	17.6	17.6
55°	12.1	13.2	15.4	16.5	17.6
57.5°	11.0	13.2	15.4	16.5	16.5
60°	11.0	12.1	14.3	16.5	16.5
62.5°	9.9	11.0	13.2	15.4	15.4
65°	9.9	11.0	13.2	15.4	15.4
66°	9.9	11.0	13.2	15.4	15.4
67.5°	9.9	11.0	13.2	15.4	15.4
70°	9.9	11.0	13.2	14.3	14.3
72.5°	8.8	9.9	12.1	14.3	14.3
75°	8.8	9.9	12.1	14.3	14.3
77.5°	8.8	9.9	12.1	14.3	14.3
80°	8.8	9.9	12.1	13.2	14.3
82.5°	7.7	9.9	11.0	13.2	13.2
85°	7.7	8.8	11.0	12.1	13.2
87.5°	6.6	7.7	8.8	11.0	11.0
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)