

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: P151599

Luminaire Tested: **VXS-E04-LED-E1-SL4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P151599
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
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-SL4-HSS-7030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 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: 7434 lumens
Efficiency: N/A
Efficacy: 76.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-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

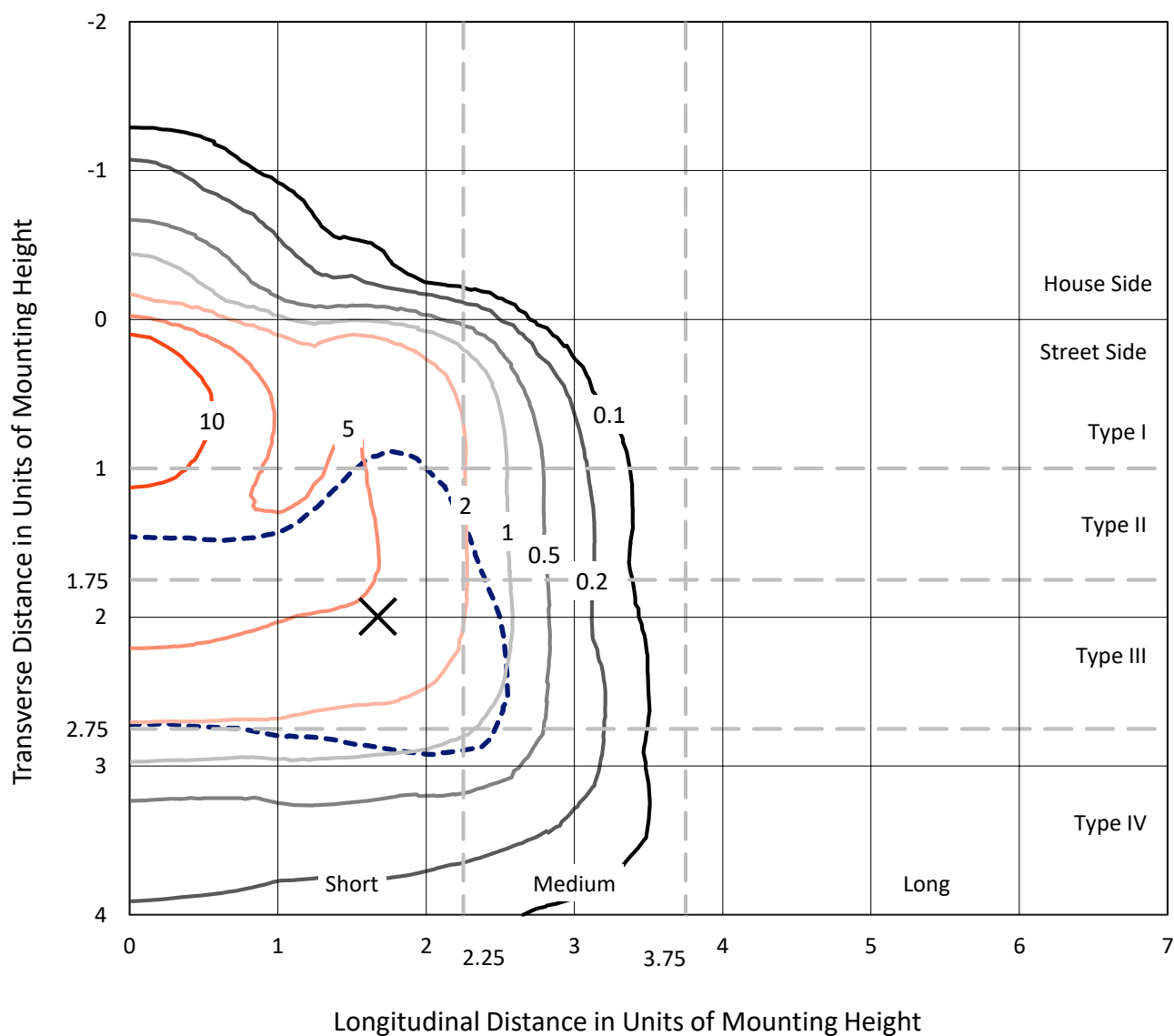


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

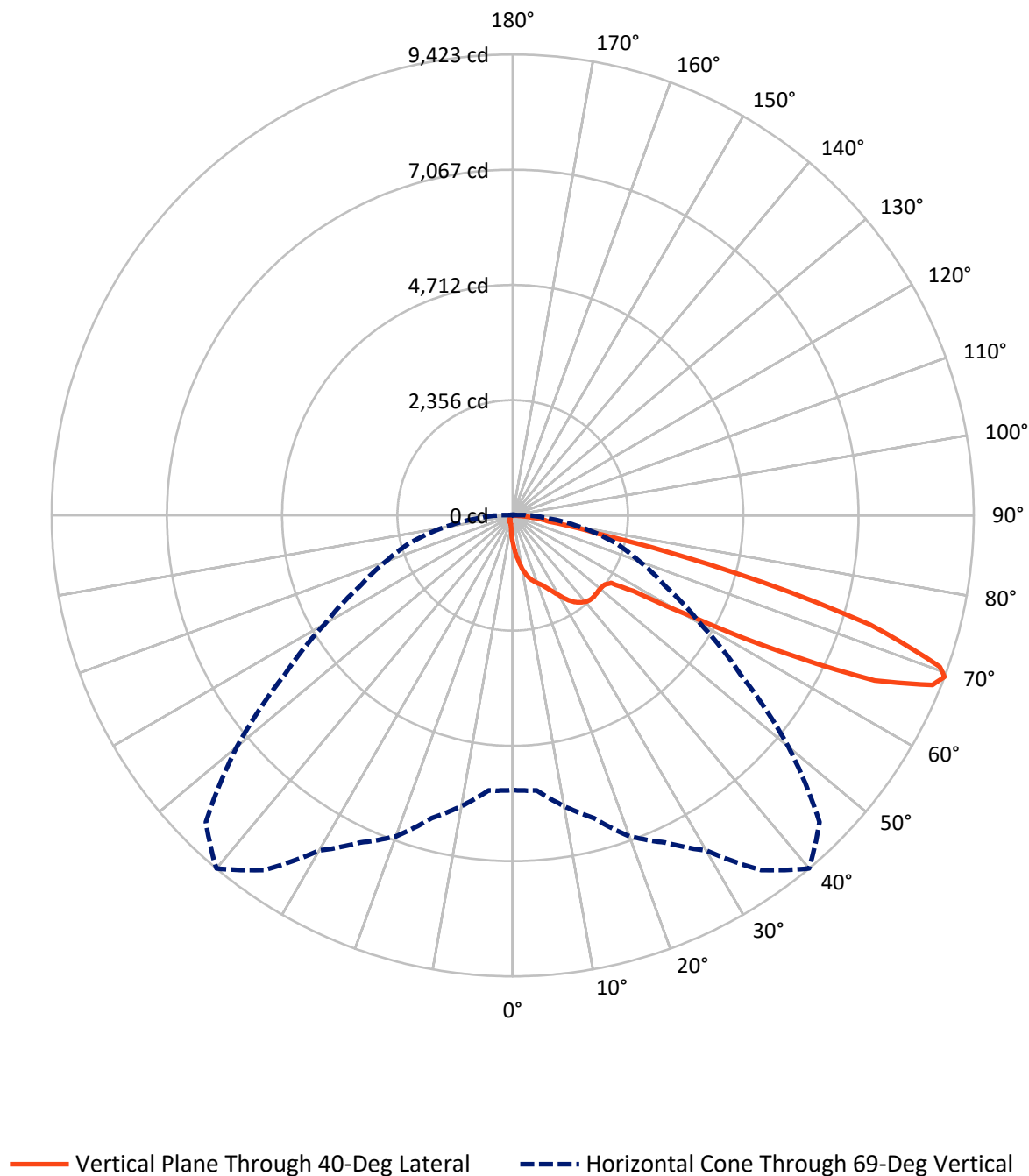


Based on 10 foot mounting height. Maximum calculated value = 16.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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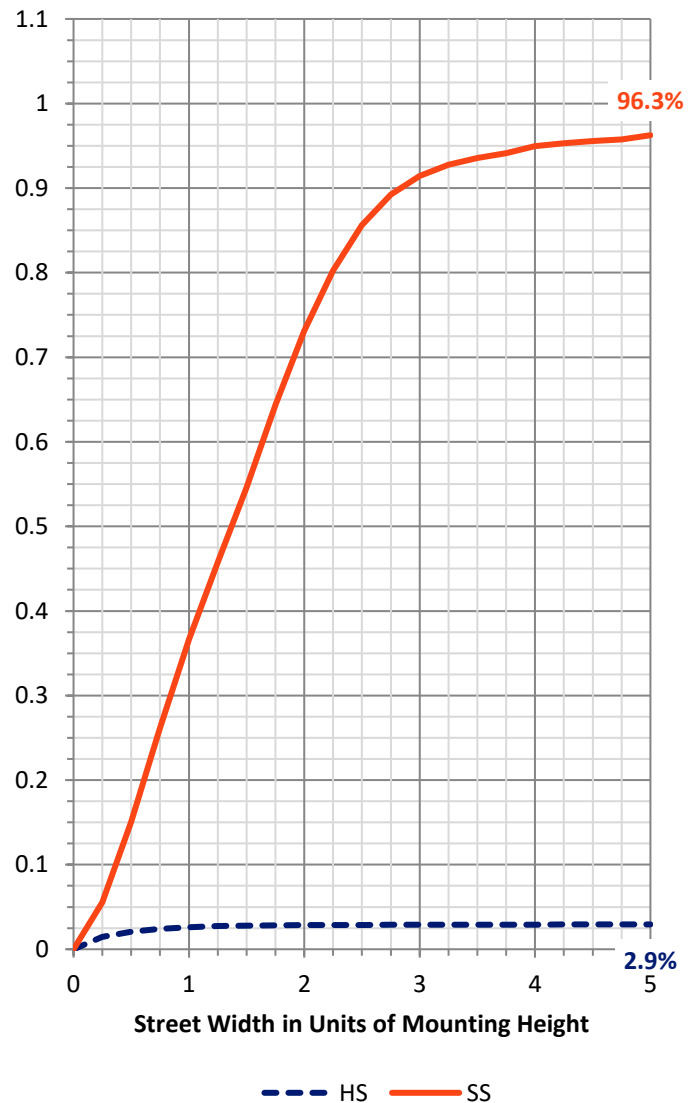
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	221.4	0.0	221.4
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	7212.6	0.0	7212.6
	% Fixture	97.0	0.0	97.0
Total	Lumens	7434.0	0.0	7434.0
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	57.7	0.8
10°-20°	199.0	2.7
20°-30°	380.8	5.1
30°-40°	633.3	8.5
40°-50°	856.9	11.5
50°-60°	1340.1	18.0
60°-70°	2755.2	37.1
70°-80°	1108.6	14.9
80°-90°	102.6	1.4
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°	7434.0	100.0
0°-180°	7434.0	100.0

Coefficient of Utilization



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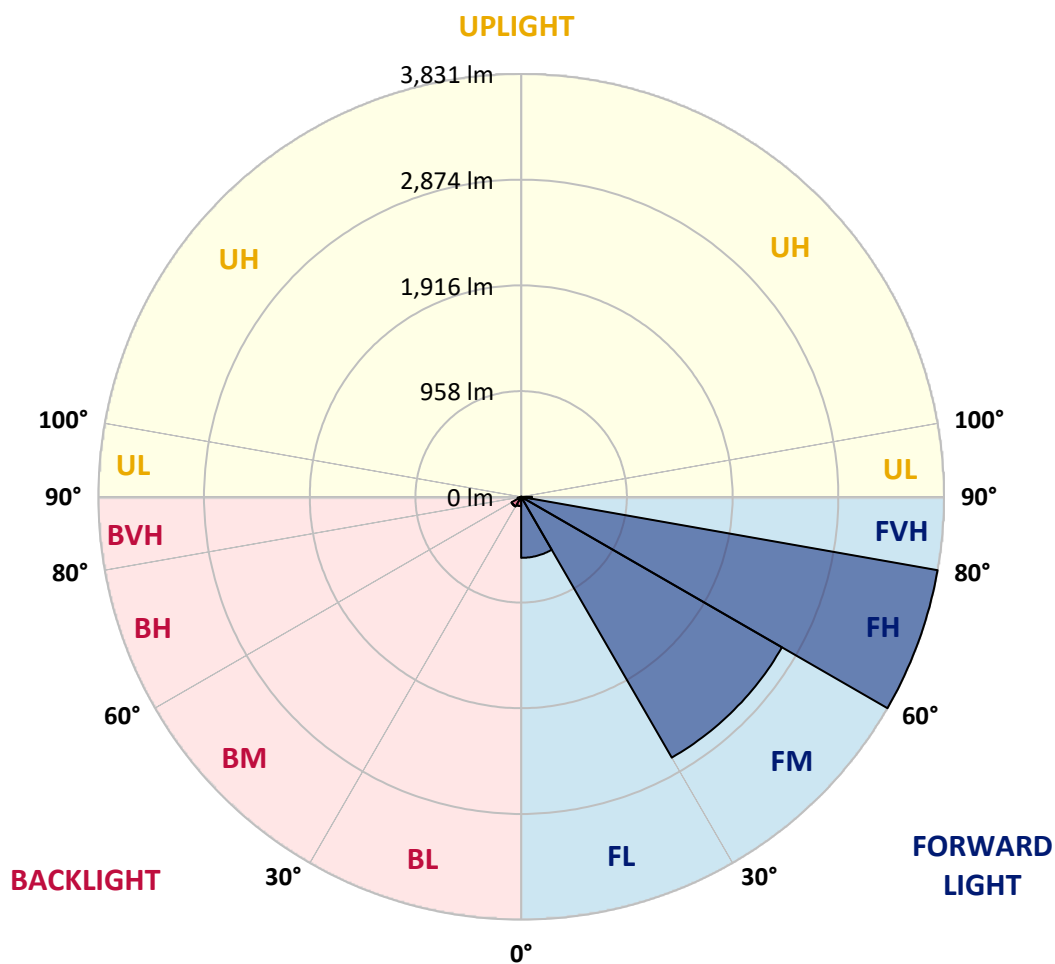
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	553.2	7.4			
FM	(30°-60°)	2729.1	36.7			
FH	(60°-80°)	3831.5	51.5			G2/5000
FVH	(80°-90°)	98.7	1.3			G1/100
BL	(0°-30°)	84.2	1.1	B0/110		
BM	(30°-60°)	101.1	1.4	B0/220		
BH	(60°-80°)	32.3	0.4	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 IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5
2.5°	748.9	740.4	730.7	730.7	718.5	718.5	711.2	691.7	689.3	678.3	667.4
5°	956.0	948.7	936.5	925.5	915.8	898.8	886.5	863.4	837.8	813.5	791.6
7.5°	1158.1	1154.5	1132.5	1128.9	1113.1	1085.1	1060.7	1026.6	982.8	948.7	908.5
10°	1345.7	1337.1	1332.2	1311.6	1288.4	1258.0	1220.2	1178.9	1127.7	1074.1	1016.9
12.5°	1494.2	1489.3	1467.5	1459.0	1434.6	1404.1	1356.6	1303.0	1251.9	1182.5	1115.5
15°	1605.1	1596.6	1582.0	1568.5	1539.3	1512.5	1468.7	1410.3	1348.1	1272.6	1192.2
17.5°	1697.6	1681.8	1678.1	1657.4	1626.9	1595.3	1546.6	1493.1	1420.0	1344.5	1256.8
20°	1821.9	1799.9	1792.6	1762.2	1726.8	1683.0	1626.9	1560.0	1483.3	1400.5	1310.4
22.5°	1968.0	1952.1	1936.3	1909.5	1864.5	1802.4	1720.7	1647.7	1550.3	1459.0	1361.5
25°	2175.0	2161.6	2136.1	2099.5	2043.4	1969.2	1870.6	1763.4	1648.9	1532.0	1417.5
27.5°	2376.0	2363.7	2345.5	2317.5	2254.2	2172.5	2050.8	1914.4	1769.4	1628.2	1501.6
30°	2564.7	2553.7	2535.4	2507.5	2451.4	2371.1	2233.5	2087.4	1907.0	1742.7	1590.5
32.5°	2768.1	2764.5	2743.7	2703.5	2654.8	2546.4	2396.6	2239.6	2056.9	1866.8	1689.1
35°	2998.2	2970.3	2950.8	2910.6	2827.8	2712.0	2536.7	2365.0	2172.5	1977.7	1779.2
37.5°	3193.1	3166.3	3142.0	3090.8	2989.7	2842.4	2643.8	2455.1	2256.6	2058.0	1856.0
40°	3335.5	3322.2	3293.0	3225.9	3112.7	2937.3	2723.0	2517.2	2317.5	2117.7	1918.0
42.5°	3441.6	3420.8	3387.9	3318.5	3184.6	2984.9	2754.7	2542.8	2345.5	2154.3	1958.2
45°	3480.5	3463.4	3433.0	3357.5	3212.5	2998.2	2753.5	2535.4	2346.7	2165.3	1985.0
47.5°	3457.3	3440.3	3413.5	3342.9	3200.4	2982.4	2731.5	2514.7	2334.5	2168.9	2009.3
50°	3380.6	3370.9	3350.2	3290.5	3162.6	2951.9	2712.0	2503.8	2332.1	2187.2	2043.4
52.5°	3373.3	3367.3	3341.7	3282.0	3151.7	2942.2	2709.6	2509.8	2352.7	2210.3	2067.9
55°	4122.3	4035.8	3842.2	3677.7	3407.4	3085.9	2832.6	2608.5	2440.5	2301.7	2201.8
57.5°	5858.9	5729.7	5475.2	5162.3	4541.1	3931.1	3442.7	3089.5	2915.4	2852.1	2889.8
60°	6672.3	6649.2	6609.0	6460.4	6142.6	5617.7	5033.2	4401.1	4147.9	4125.9	4202.6
62.5°	7058.3	7043.7	7056.0	7037.7	6939.1	6785.6	6617.5	6344.8	6093.9	5931.9	5588.5
65°	7236.2	7245.9	7315.3	7370.2	7382.3	7422.5	7545.5	7885.3	8133.7	7716.0	6762.5
67.5°	6784.4	6841.6	7001.1	7200.8	7434.7	7661.1	8026.5	8742.6	9252.8	8762.1	7407.9
69°	5616.5	5644.5	6034.2	6410.5	6981.7	7381.1	7910.9	8849.7	9423.3	8869.2	7356.7
70°	4421.9	4447.4	4865.1	5376.6	6342.3	6856.2	7549.1	8668.3	9263.8	8726.7	7093.7
72.5°	1994.7	1958.2	2105.6	2379.6	3429.3	4245.3	5457.0	7023.0	7642.9	6991.4	5307.2
75°	1393.2	1377.3	1393.2	1394.4	1557.6	2009.3	2535.4	3806.8	4708.0	4062.6	2535.4
77.5°	1079.0	1068.0	1057.1	1044.9	1064.4	1192.2	1243.4	1350.6	1753.7	1658.7	966.9
80°	853.7	843.9	870.8	862.2	862.2	876.8	867.0	826.8	751.4	696.6	623.5
82.5°	397.0	399.5	399.5	433.6	522.5	610.2	638.1	597.9	531.0	451.8	364.1
85°	37.7	42.6	71.8	110.8	220.4	248.4	249.6	207.0	207.0	163.2	131.5
87.5°	0.0	1.2	1.2	1.2	11.0	30.5	25.6	7.4	3.6	3.6	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

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5
2.5°	647.9	644.2	629.6	615.0	601.6	586.9	573.6	560.2	545.6	534.6	521.2
5°	757.5	730.7	700.2	671.0	641.8	611.3	579.7	551.7	522.5	495.6	470.1
7.5°	868.3	816.0	774.5	722.2	674.6	627.2	583.3	538.2	496.9	457.9	421.3
10°	962.1	898.8	834.2	767.3	699.1	635.6	574.8	521.2	466.4	419.0	373.9
12.5°	1038.8	958.4	879.3	795.2	718.5	638.1	562.6	498.0	433.6	380.0	333.7
15°	1108.2	1015.6	920.6	823.2	725.8	634.5	550.5	470.1	404.4	343.4	291.1
17.5°	1164.2	1058.2	951.1	841.5	736.8	629.6	534.6	450.6	373.9	310.6	259.4
20°	1213.0	1102.1	986.4	863.4	744.0	628.4	521.2	426.2	347.0	280.1	230.2
22.5°	1258.0	1147.2	1022.9	891.4	755.0	627.2	509.0	408.0	323.9	257.0	207.0
25°	1309.1	1192.2	1062.0	920.6	774.5	632.0	501.8	393.4	303.2	235.0	188.8
27.5°	1366.3	1243.4	1108.2	957.2	800.1	641.8	499.3	377.5	285.0	214.3	174.2
30°	1446.7	1304.2	1154.5	993.7	823.2	652.7	496.9	367.8	266.7	198.5	159.5
32.5°	1517.4	1363.9	1205.6	1031.5	848.8	663.7	495.6	354.4	249.6	182.7	148.6
35°	1591.7	1418.8	1249.4	1068.0	870.8	675.9	494.4	344.7	233.8	166.8	137.6
37.5°	1656.2	1465.0	1283.5	1099.7	895.1	686.8	495.6	336.1	219.2	153.5	127.9
40°	1711.0	1512.5	1321.3	1128.9	920.6	703.9	496.9	327.6	204.6	141.2	119.4
42.5°	1759.7	1557.6	1361.5	1161.8	949.8	723.4	504.1	320.3	192.4	130.3	110.8
45°	1797.5	1599.0	1405.4	1208.1	997.4	755.0	517.6	315.4	180.2	120.5	103.5
47.5°	1836.5	1659.9	1479.6	1281.1	1066.8	805.0	540.7	314.2	170.5	113.3	97.4
50°	1890.1	1720.7	1545.4	1355.4	1130.2	856.1	568.7	315.4	158.3	105.9	91.3
52.5°	1929.0	1782.9	1630.7	1484.5	1281.1	1012.0	677.1	337.3	152.2	99.9	84.0
55°	2159.2	2133.6	2137.2	2161.6	2004.5	1722.0	1132.5	487.2	179.1	113.3	82.8
57.5°	3044.5	3134.6	3186.9	3185.8	2926.4	2427.0	1521.0	625.9	199.7	131.5	98.7
60°	4208.7	4140.5	4044.4	3806.8	3462.2	2770.5	1701.2	673.5	173.0	104.8	90.2
62.5°	5237.7	4838.3	4483.9	4099.1	3647.4	2889.8	1737.8	669.7	151.0	79.2	63.3
65°	5879.6	5161.0	4588.7	4106.4	3574.2	2789.9	1644.0	615.0	127.9	64.6	52.3
67.5°	6033.0	4986.9	4177.1	3562.1	2986.0	2171.3	1206.8	462.8	99.9	53.6	46.3
69°	5698.1	4432.7	3461.0	2763.2	2172.5	1440.6	746.5	292.2	76.7	48.7	42.6
70°	5241.5	3855.5	2819.2	2217.6	1608.7	1012.0	522.5	205.8	62.1	45.1	39.0
72.5°	3372.1	2025.2	1385.9	964.5	663.7	403.1	204.6	92.5	47.5	37.7	31.7
75°	1307.9	748.9	543.1	412.8	322.7	224.0	124.2	59.7	40.2	31.7	24.4
77.5°	644.2	493.2	403.1	276.5	160.7	99.9	66.9	46.3	32.8	23.1	15.9
80°	509.0	338.5	202.2	125.4	95.0	71.8	51.2	37.7	24.4	14.6	11.0
82.5°	260.6	142.5	104.8	85.3	70.7	56.1	41.5	26.8	15.9	9.7	8.5
85°	81.6	59.7	53.6	52.3	48.7	40.2	29.2	17.1	9.7	6.1	6.1
87.5°	6.1	8.5	11.0	8.5	9.7	8.5	11.0	7.4	4.9	4.9	3.6
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5	561.5
2.5°	511.5	496.9	483.4	474.9	459.1	453.1	446.9	444.5	433.6	436.0	426.2
5°	446.9	421.3	401.9	382.4	364.1	350.8	339.8	326.3	315.4	310.6	300.8
7.5°	388.5	355.6	330.1	309.3	287.4	270.4	255.8	246.0	236.3	226.5	221.7
10°	337.3	302.0	272.7	252.1	231.4	216.8	205.8	198.5	192.4	188.8	187.6
12.5°	289.8	255.8	228.9	210.7	194.8	187.6	182.7	179.1	177.8	176.6	176.6
15°	253.3	219.2	198.5	185.1	177.8	174.2	173.0	170.5	168.1	166.8	166.8
17.5°	219.2	193.7	179.1	171.7	168.1	165.6	163.2	160.7	158.3	157.1	157.1
20°	196.1	175.3	168.1	163.2	159.5	157.1	153.5	151.0	149.7	148.6	147.4
22.5°	177.8	164.4	159.5	155.9	151.0	147.4	144.9	142.5	140.0	138.9	137.6
25°	164.4	155.9	152.2	147.4	142.5	138.9	135.1	131.5	129.1	127.9	125.4
27.5°	154.6	148.6	143.7	137.6	132.7	129.1	125.4	121.8	119.4	116.9	115.6
30°	146.1	140.0	134.0	129.1	123.0	119.4	114.5	110.8	109.6	107.2	104.8
32.5°	137.6	131.5	125.4	119.4	113.3	108.4	105.9	101.0	98.7	97.4	95.0
35°	127.9	121.8	114.5	109.6	103.5	98.7	95.0	91.3	88.9	86.4	85.3
37.5°	119.4	112.0	104.8	98.7	93.8	88.9	85.3	81.6	79.2	76.7	75.5
40°	109.6	102.3	95.0	88.9	84.0	80.4	76.7	73.1	70.7	69.4	69.4
42.5°	101.0	92.5	85.3	80.4	76.7	71.8	68.2	64.6	63.3	62.1	63.3
45°	92.5	84.0	77.9	73.1	69.4	64.6	60.9	58.4	57.2	58.4	59.7
47.5°	85.3	76.7	70.7	66.9	63.3	59.7	56.1	53.6	53.6	56.1	58.4
50°	77.9	69.4	64.6	62.1	58.4	54.8	49.9	48.7	49.9	52.3	54.8
52.5°	70.7	60.9	57.2	56.1	52.3	48.7	45.1	43.8	45.1	47.5	46.3
55°	63.3	53.6	52.3	51.2	47.5	42.6	39.0	39.0	39.0	37.7	35.3
57.5°	60.9	47.5	46.3	45.1	41.5	36.6	34.1	31.7	30.5	26.8	25.6
60°	63.3	42.6	42.6	40.2	36.6	31.7	28.0	24.4	22.0	19.5	19.5
62.5°	51.2	39.0	37.7	35.3	30.5	25.6	22.0	18.2	17.1	15.9	15.9
65°	41.5	35.3	32.8	29.2	25.6	20.7	17.1	14.6	13.4	13.4	14.6
67.5°	37.7	31.7	28.0	24.4	20.7	15.9	13.4	12.2	12.2	13.4	13.4
69°	35.3	29.2	25.6	22.0	18.2	14.6	12.2	12.2	12.2	12.2	13.4
70°	32.8	28.0	24.4	20.7	15.9	12.2	11.0	11.0	12.2	12.2	13.4
72.5°	25.6	22.0	20.7	17.1	12.2	11.0	9.7	11.0	11.0	12.2	12.2
75°	19.5	15.9	15.9	13.4	9.7	8.5	8.5	9.7	9.7	11.0	11.0
77.5°	13.4	11.0	11.0	9.7	8.5	7.4	7.4	8.5	9.7	9.7	11.0
80°	9.7	8.5	7.4	8.5	7.4	6.1	7.4	8.5	8.5	9.7	9.7
82.5°	7.4	7.4	7.4	7.4	6.1	6.1	7.4	7.4	8.5	9.7	9.7
85°	6.1	6.1	6.1	6.1	6.1	6.1	6.1	7.4	7.4	8.5	8.5
87.5°	3.6	3.6	3.6	4.9	4.9	6.1	6.1	6.1	6.1	7.4	7.4
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-E04-LED-E1-SL4-HSS-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	561.5	561.5	561.5	561.5
2.5°	423.8	422.6	417.7	419.0
5°	297.1	289.8	294.7	293.5
7.5°	218.0	216.8	215.5	218.0
10°	186.3	186.3	185.1	186.3
12.5°	175.3	175.3	175.3	175.3
15°	166.8	166.8	165.6	165.6
17.5°	157.1	157.1	157.1	155.9
20°	147.4	146.1	146.1	146.1
22.5°	136.4	135.1	135.1	135.1
25°	125.4	124.2	124.2	124.2
27.5°	114.5	113.3	112.0	112.0
30°	103.5	102.3	101.0	101.0
32.5°	92.5	91.3	90.2	90.2
35°	82.8	82.8	81.6	80.4
37.5°	74.3	74.3	74.3	74.3
40°	68.2	69.4	69.4	69.4
42.5°	64.6	65.8	66.9	68.2
45°	62.1	64.6	65.8	65.8
47.5°	60.9	62.1	63.3	63.3
50°	56.1	54.8	54.8	54.8
52.5°	45.1	42.6	41.5	40.2
55°	32.8	31.7	29.2	29.2
57.5°	23.1	23.1	22.0	22.0
60°	18.2	18.2	17.1	18.2
62.5°	15.9	15.9	15.9	15.9
65°	14.6	14.6	14.6	14.6
67.5°	14.6	14.6	14.6	14.6
69°	13.4	13.4	13.4	13.4
70°	13.4	13.4	13.4	13.4
72.5°	12.2	12.2	12.2	12.2
75°	11.0	12.2	12.2	12.2
77.5°	11.0	11.0	11.0	11.0
80°	9.7	9.7	11.0	11.0
82.5°	9.7	9.7	9.7	9.7
85°	8.5	8.5	9.7	9.7
87.5°	7.4	7.4	8.5	8.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)