

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: P149314

Luminaire Tested: **VXS-F03-LED-E1-SL2-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149314
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-F03-LED-E1-SL2-HSS-7030
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4147.5 lumens
Efficiency: N/A
Efficacy: 53.0 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 78.3
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

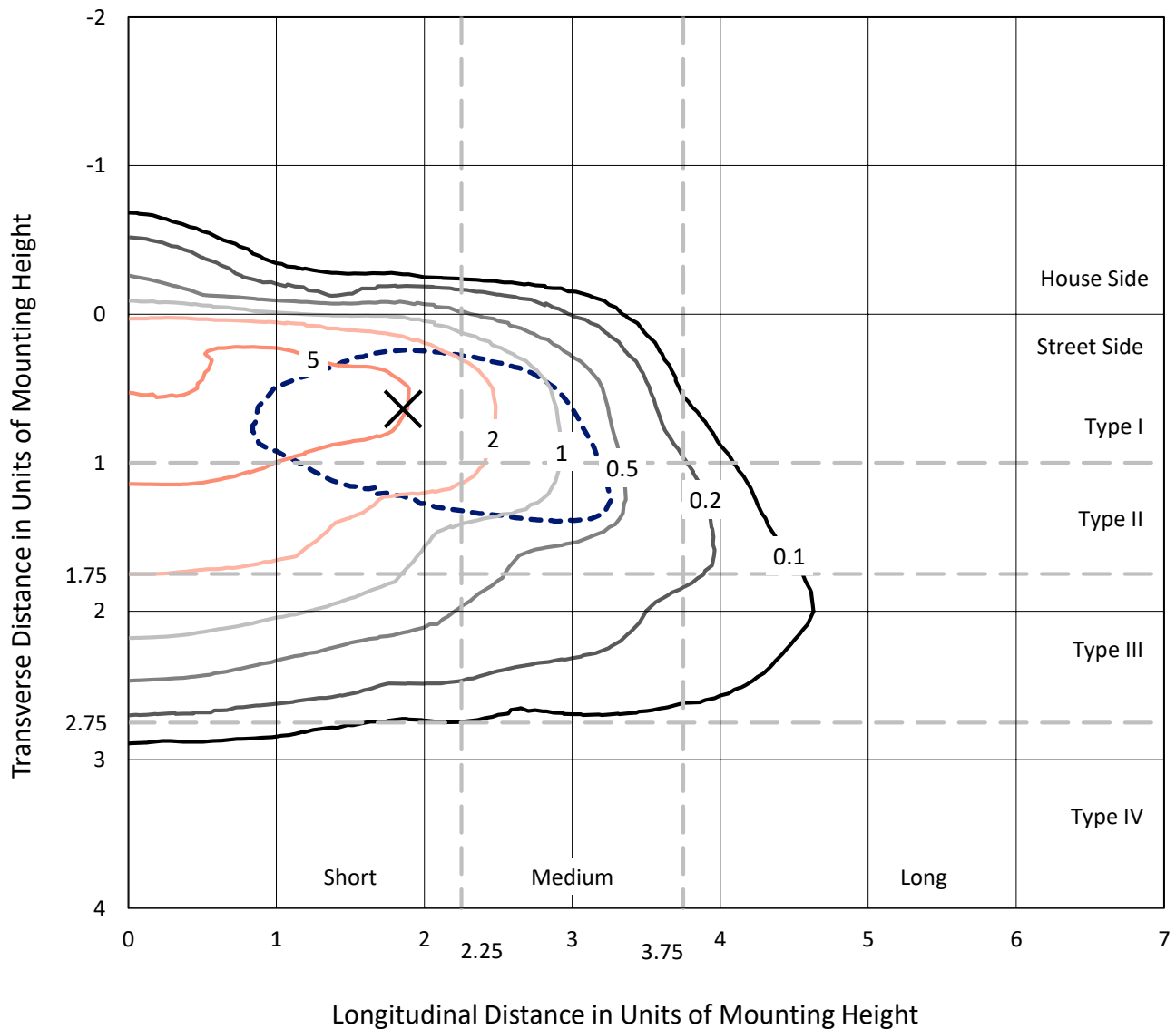


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

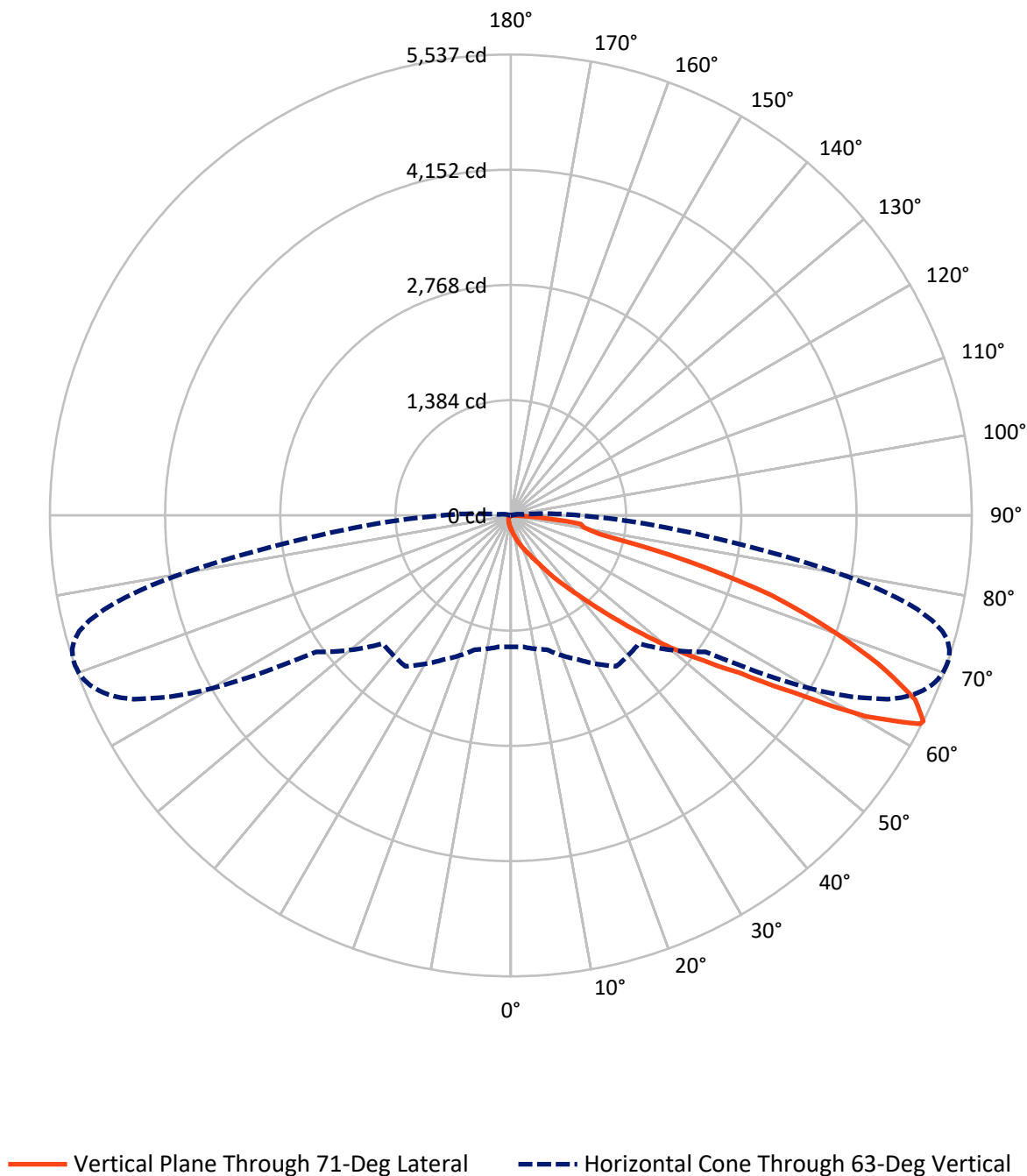


Based on 10 foot mounting height. Maximum calculated value = 8.7 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	88.1	0.0	88.1
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	4059.5	0.0	4059.5
	% Fixture	97.9	0.0	97.9
Total	Lumens	4147.5	0.0	4147.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.6	0.4
10°-20°	68.2	1.6
20°-30°	138.5	3.3
30°-40°	338.4	8.2
40°-50°	756.8	18.2
50°-60°	1064.2	25.7
60°-70°	1251.4	30.2
70°-80°	451.9	10.9
80°-90°	60.4	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°	4147.5	100.0
0°-180°	4147.5	100.0

Coefficient of Utilization



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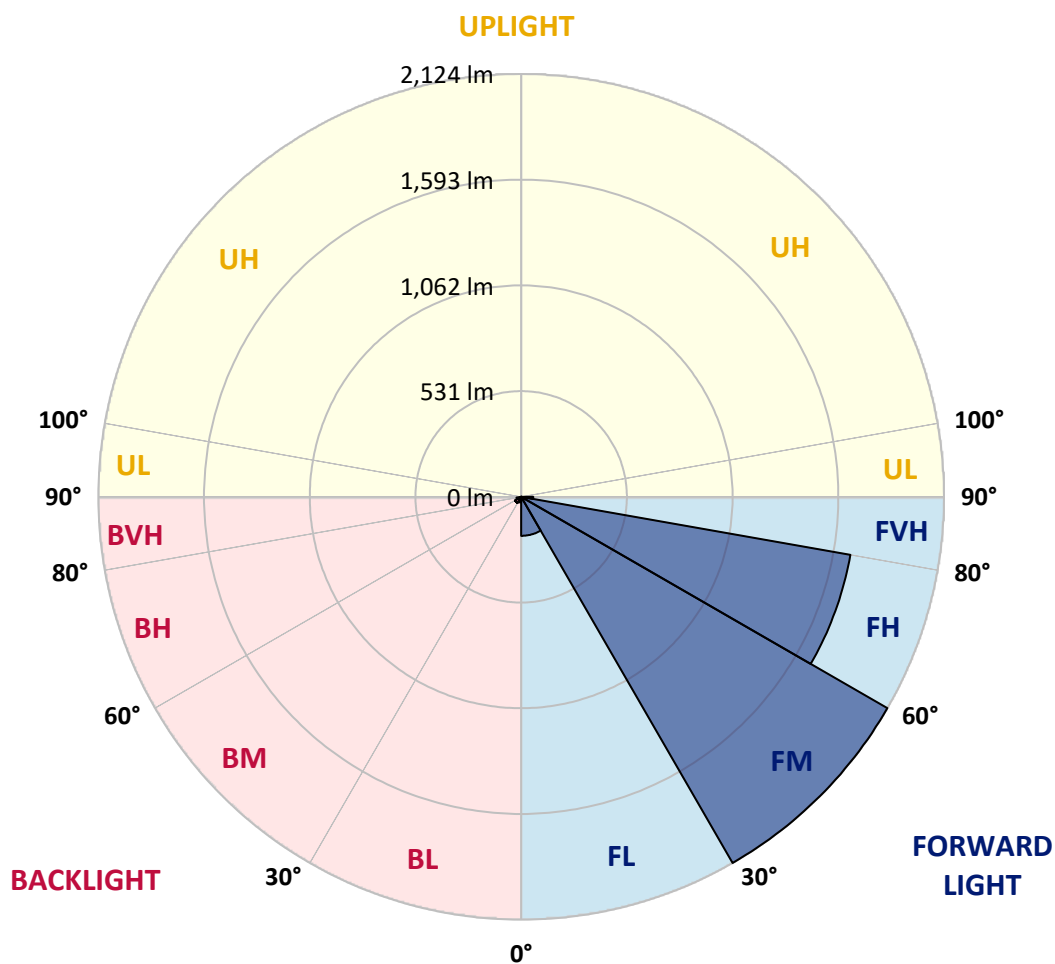
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	196.0	4.7			
FM	(30°-60°)	2124.0	51.2			
FH	(60°-80°)	1679.2	40.5			G1/1800
FVH	(80°-90°)	60.3	1.5			G1/100
BL	(0°-30°)	28.3	0.7	B0/110		
BM	(30°-60°)	35.5	0.9	B0/220		
BH	(60°-80°)	24.1	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°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	208.1	210.4	208.8	205.1	200.5	194.5	189.2	189.2	188.5	186.2	186.9
5°	273.0	273.7	270.7	261.7	253.4	240.5	226.2	224.7	223.2	220.9	220.2
7.5°	336.3	339.3	336.3	326.5	309.8	290.3	267.7	265.4	260.9	260.9	257.8
10°	401.1	401.1	398.1	386.8	371.7	343.8	315.1	311.4	306.1	304.7	300.1
12.5°	447.2	447.2	445.6	439.6	427.6	402.6	368.0	364.1	357.4	355.1	349.8
15°	465.2	465.2	466.0	471.3	472.0	460.7	424.5	421.5	414.7	408.7	406.4
17.5°	476.5	475.8	475.8	483.3	496.9	504.5	481.0	478.0	470.5	467.5	459.9
20°	501.5	499.9	495.3	495.3	508.2	534.6	534.6	533.8	525.5	523.3	519.5
22.5°	538.3	536.9	523.3	511.9	518.0	551.2	582.1	580.6	577.5	574.5	572.3
25°	598.7	593.4	570.1	536.9	531.6	567.0	618.2	622.1	624.4	624.4	625.8
27.5°	689.9	683.1	641.7	579.8	556.5	592.6	658.2	665.8	672.5	674.1	680.8
30°	816.6	804.6	745.0	654.5	600.9	630.4	717.1	725.4	735.1	738.1	748.7
32.5°	1024.7	1017.9	960.6	824.9	710.3	704.2	799.3	809.7	822.6	827.9	840.7
35°	1341.3	1342.9	1296.2	1174.0	1015.6	932.6	946.2	955.3	959.8	975.6	982.5
37.5°	1556.3	1560.0	1570.6	1522.3	1409.2	1324.8	1218.4	1228.3	1204.9	1207.2	1207.9
40°	1673.9	1685.9	1747.8	1794.5	1785.5	1736.5	1651.3	1656.5	1612.7	1603.0	1555.4
42.5°	1752.3	1768.1	1866.8	2011.6	2085.6	2130.1	2110.5	2108.2	2074.2	2061.5	2021.5
45°	1801.2	1815.6	1940.0	2153.4	2323.8	2453.5	2507.0	2513.1	2484.5	2471.6	2438.4
47.5°	1799.1	1815.6	1949.1	2206.2	2457.3	2664.7	2815.4	2822.9	2840.3	2829.0	2831.3
50°	1699.5	1715.3	1849.5	2116.5	2418.0	2761.1	3037.1	3061.2	3089.1	3108.0	3117.0
52.5°	1578.9	1590.2	1709.3	1962.7	2250.7	2721.1	3168.3	3209.7	3251.2	3286.6	3311.5
55°	1534.4	1547.2	1640.7	1851.1	2116.5	2553.8	3229.3	3290.5	3349.2	3407.3	3454.8
57.5°	1557.7	1569.8	1636.9	1798.2	2036.6	2377.3	3246.7	3341.7	3438.2	3532.4	3625.9
60°	1643.7	1656.5	1713.8	1847.3	2015.4	2275.5	3178.9	3336.4	3497.0	3661.3	3816.0
62.5°	1609.7	1615.0	1699.5	1933.3	2166.2	2188.8	2932.3	3152.4	3397.5	3650.9	3900.4
63°	1577.3	1583.4	1669.3	1909.8	2212.2	2176.1	2856.2	3088.4	3346.9	3619.9	3891.4
65°	1430.4	1431.1	1496.7	1686.6	2160.9	2198.7	2516.8	2738.5	3035.5	3362.8	3705.9
67.5°	1067.7	1062.4	1125.7	1270.5	1696.5	2199.4	2160.2	2284.6	2491.2	2781.5	3089.1
70°	378.5	370.3	472.7	673.4	1057.1	1799.1	1856.4	1864.7	1922.0	2078.8	2271.8
72.5°	122.9	125.2	150.8	246.5	487.0	1210.9	1680.6	1655.0	1639.9	1639.2	1664.8
75°	49.0	49.7	60.3	109.3	218.7	583.6	1471.8	1486.1	1491.4	1499.0	1507.3
77.5°	23.4	25.6	33.9	61.0	108.6	288.8	1053.4	1174.7	1244.0	1297.6	1330.1
80°	8.3	9.8	18.9	37.7	50.5	132.7	554.9	669.5	771.3	902.5	1015.6
82.5°	0.0	0.0	3.7	26.4	27.9	53.6	227.7	266.9	305.4	395.9	508.2
85°	0.0	0.0	0.0	7.6	8.3	9.0	76.9	92.7	104.0	121.3	140.2
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.7	2.3	4.6	11.3	17.3
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°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	185.5	184.8	184.8	183.2	182.5	180.9	180.2	177.9	177.2	177.2	177.2
5°	219.4	216.4	214.9	211.1	208.8	208.1	204.4	202.8	200.5	201.3	197.5
7.5°	257.1	251.8	249.5	244.2	242.8	237.5	236.0	232.2	229.9	225.5	223.9
10°	298.5	291.8	288.0	279.7	277.5	273.7	269.2	264.7	260.9	256.4	254.1
12.5°	346.1	340.0	337.0	325.7	320.4	315.1	309.1	303.1	297.1	293.3	288.0
15°	401.9	392.1	389.0	378.5	369.4	362.7	354.4	346.8	342.3	334.8	329.5
17.5°	456.9	447.2	444.9	429.0	419.2	414.7	405.7	395.9	387.6	380.0	371.7
20°	511.9	505.2	499.2	484.0	473.5	466.0	453.9	444.1	437.3	426.7	416.2
22.5°	567.0	560.2	555.6	539.9	530.1	519.5	508.9	498.3	488.6	475.8	463.7
25°	623.5	619.1	616.8	602.5	593.4	583.6	573.1	560.9	548.9	534.6	521.8
27.5°	682.4	683.8	679.4	676.4	666.5	659.8	643.1	634.8	625.8	608.5	592.6
30°	757.0	761.6	760.0	762.3	756.3	751.7	739.0	728.4	717.8	701.2	683.1
32.5°	851.3	857.3	860.3	868.6	865.6	864.0	860.3	845.2	837.7	809.0	801.5
35°	996.8	993.8	1006.6	1013.4	1010.4	1008.8	1004.4	996.1	986.9	966.6	947.8
37.5°	1186.0	1189.0	1193.6	1180.0	1171.0	1170.2	1156.6	1148.3	1135.5	1112.8	1090.3
40°	1532.8	1514.0	1493.0	1435.6	1410.7	1396.4	1356.5	1345.1	1323.2	1292.3	1269.0
42.5°	1983.7	1964.9	1901.6	1805.8	1754.5	1683.6	1651.3	1611.3	1580.4	1529.8	1502.7
45°	2431.6	2377.3	2369.8	2258.2	2194.9	2101.3	2043.3	1976.2	1906.1	1839.8	1791.5
47.5°	2809.4	2797.3	2760.4	2692.5	2633.7	2555.2	2480.6	2377.3	2305.0	2210.7	2124.0
50°	3111.7	3111.0	3097.4	3058.2	3009.2	2945.8	2880.2	2792.7	2710.6	2595.2	2502.5
52.5°	3337.9	3349.9	3354.5	3342.5	3323.6	3267.8	3234.6	3161.5	3092.1	2994.1	2893.8
55°	3503.8	3548.3	3570.9	3596.6	3591.3	3571.7	3570.2	3522.7	3491.0	3413.4	3342.5
57.5°	3708.9	3782.1	3852.1	3976.6	3981.0	4024.8	4047.5	4070.1	4076.1	4045.2	4021.8
60°	3969.7	4119.1	4251.8	4511.9	4579.8	4686.8	4756.2	4831.6	4895.6	4900.9	4899.5
62.5°	4153.8	4383.7	4597.8	4983.9	5115.9	5239.5	5332.2	5405.4	5449.8	5495.1	5516.2
63°	4159.1	4410.9	4638.5	5036.7	5175.4	5293.1	5381.2	5449.1	5495.9	5523.0	5536.6
65°	4031.6	4337.0	4608.4	5005.0	5135.4	5253.8	5299.8	5344.4	5366.9	5377.5	5337.5
67.5°	3417.1	3715.6	4032.3	4475.8	4587.3	4729.0	4766.7	4789.3	4799.9	4797.6	4763.7
70°	2555.2	2805.6	3157.7	3664.5	3812.2	3950.9	4036.9	4073.8	4085.9	4082.1	4031.6
72.5°	1783.9	1931.0	2221.2	2785.3	2986.5	3164.6	3270.8	3325.9	3337.2	3314.5	3267.8
75°	1498.1	1505.7	1571.3	1879.7	2068.2	2258.2	2378.1	2412.7	2390.2	2321.6	2202.4
77.5°	1337.6	1354.2	1354.2	1400.2	1437.1	1489.8	1501.2	1416.8	1318.8	1192.0	1089.5
80°	1122.0	1180.0	1220.7	1254.6	1258.4	1247.9	1220.0	1172.4	1097.1	1000.5	893.5
82.5°	681.7	796.2	843.0	1017.9	1103.8	1161.9	1157.4	1094.1	1036.8	936.5	845.2
85°	171.9	185.5	201.3	261.7	293.3	358.1	398.9	417.7	424.5	389.8	352.8
87.5°	16.6	11.3	18.9	14.3	20.3	15.1	20.3	18.9	23.4	24.9	27.2
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°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	175.6	174.9	174.2	173.4	172.6	171.9	170.4	170.4	168.9	168.2	167.4
5°	195.2	193.8	193.1	191.5	189.2	187.8	185.5	182.5	180.2	179.5	177.9
7.5°	220.2	216.4	214.9	212.6	209.6	205.1	202.1	199.8	196.1	193.8	189.2
10°	248.1	244.2	239.8	235.2	230.7	225.5	221.7	218.7	212.6	209.6	204.4
12.5°	283.5	276.7	271.4	265.4	259.4	253.4	248.8	239.8	234.5	227.7	223.2
15°	319.7	313.7	307.7	300.1	291.1	281.2	276.7	268.4	261.7	251.1	245.1
17.5°	363.4	352.1	343.1	334.0	325.7	316.7	307.7	294.8	285.0	276.0	263.9
20°	406.4	392.8	383.0	371.0	358.9	344.6	334.0	325.0	311.4	299.4	286.5
22.5°	452.4	438.9	423.0	410.9	394.3	383.0	368.7	353.6	340.0	324.2	308.4
25°	508.2	493.9	475.8	459.9	441.0	425.3	407.9	390.6	374.0	355.9	335.5
27.5°	576.8	561.8	542.1	523.3	498.3	478.8	462.2	438.9	417.7	395.1	371.7
30°	663.5	646.9	622.8	595.6	570.8	548.9	525.5	494.6	471.3	444.1	414.0
32.5°	776.6	757.0	724.6	699.0	668.1	639.4	606.9	576.1	542.9	507.5	472.7
35°	919.1	901.0	863.3	825.6	791.7	757.7	717.1	681.7	634.8	591.9	547.4
37.5°	1066.9	1034.5	999.8	959.1	916.9	876.2	826.4	777.4	723.8	677.1	621.2
40°	1235.8	1196.6	1168.0	1124.2	1064.7	1006.6	960.6	899.5	832.4	769.8	704.2
42.5°	1467.3	1423.5	1372.2	1305.9	1262.9	1195.1	1135.5	1063.1	974.9	904.8	825.6
45°	1734.9	1675.3	1625.6	1561.6	1509.5	1425.1	1355.6	1259.2	1171.0	1079.0	982.5
47.5°	2040.3	1966.4	1894.0	1830.7	1747.8	1664.8	1576.6	1474.1	1360.9	1259.9	1145.3
50°	2390.9	2286.1	2185.8	2104.4	1990.6	1894.8	1799.1	1683.6	1558.5	1442.4	1311.9
52.5°	2780.7	2659.4	2526.6	2401.5	2269.5	2146.6	2031.3	1898.5	1759.1	1617.3	1471.8
55°	3251.2	3160.0	3003.9	2844.8	2668.4	2504.0	2355.4	2191.1	2021.5	1835.2	1682.2
57.5°	3987.9	3943.4	3813.0	3653.9	3423.8	3224.0	2972.2	2770.9	2525.1	2268.8	2071.2
60°	4986.1	4931.1	4858.0	4729.0	4546.6	4275.1	3997.7	3684.8	3310.8	2955.6	2618.7
62.5°	5518.4	5498.9	5439.3	5350.4	5179.9	4965.8	4686.1	4342.3	3920.0	3488.7	3059.0
63°	5534.3	5509.4	5458.1	5367.7	5217.6	5010.3	4735.9	4401.9	3988.6	3549.0	3110.3
65°	5320.2	5310.4	5258.3	5159.6	5057.0	4898.7	4686.1	4398.8	4051.9	3636.5	3200.0
67.5°	4718.4	4689.1	4609.1	4579.0	4507.4	4397.3	4235.1	4037.6	3789.5	3463.1	3086.1
70°	3990.9	3947.2	3846.8	3793.4	3705.9	3636.5	3537.7	3396.8	3243.7	3016.0	2734.7
72.5°	3219.6	3129.1	3037.1	2897.6	2775.4	2651.8	2542.5	2442.9	2274.8	2182.8	1969.4
75°	2090.8	1926.4	1768.9	1557.7	1367.8	1199.6	1036.0	953.1	780.4	710.3	609.9
77.5°	992.2	900.3	776.6	680.8	558.8	456.2	372.4	279.7	219.4	171.9	131.2
80°	800.7	723.1	648.4	561.8	469.7	374.7	287.3	214.9	152.3	105.6	74.6
82.5°	714.0	629.5	537.6	478.0	415.4	340.0	279.0	227.7	168.2	122.9	83.7
85°	277.5	233.8	180.2	147.0	114.6	94.3	85.2	58.9	46.0	36.2	27.9
87.5°	24.1	19.6	15.9	10.6	11.3	6.0	6.7	4.6	3.7	3.7	3.0
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	166.6	165.9	165.1	163.6	163.6	162.1	161.3	160.6	156.8	148.5	141.8
5°	174.9	173.4	171.9	169.6	168.2	165.9	164.4	162.1	153.8	138.0	124.5
7.5°	186.9	183.9	181.8	177.2	174.9	171.9	169.6	165.9	152.3	128.2	109.3
10°	201.3	196.1	192.2	186.9	182.5	178.7	174.9	169.6	150.8	117.6	95.8
12.5°	218.7	212.6	205.1	199.1	193.1	187.8	182.5	175.6	148.5	108.6	85.2
15°	236.0	226.9	221.7	213.4	205.1	197.5	190.1	183.9	149.3	98.8	76.2
17.5°	255.6	246.5	235.2	226.2	217.1	207.4	198.3	186.2	145.5	91.2	69.3
20°	274.4	261.7	251.1	239.8	226.9	214.9	203.6	193.1	142.5	83.7	63.3
22.5°	294.8	279.7	266.1	251.8	236.0	222.4	208.8	195.2	137.2	76.9	58.0
25°	319.7	302.4	282.8	265.4	248.8	232.2	214.9	198.3	131.9	70.9	54.3
27.5°	349.8	327.3	307.7	285.8	262.4	241.2	222.4	204.4	126.6	66.3	50.5
30°	388.3	361.9	334.0	306.1	281.2	257.1	230.7	208.1	121.3	61.9	46.7
32.5°	439.6	406.4	372.4	340.0	306.8	276.0	248.1	218.7	118.3	58.0	43.0
35°	507.5	464.5	423.0	382.3	342.3	304.7	268.4	235.2	118.3	53.6	38.4
37.5°	571.5	521.8	469.0	418.4	371.0	327.3	284.2	244.2	112.3	49.7	34.7
40°	640.9	581.3	519.5	459.9	402.6	348.4	299.4	253.4	107.0	45.3	30.9
42.5°	747.3	671.8	591.1	521.8	453.2	386.0	325.0	270.7	100.3	40.7	27.2
45°	886.7	791.0	696.0	611.5	524.0	441.9	369.4	302.4	98.8	37.0	23.4
47.5°	1036.0	922.9	811.3	703.5	600.9	505.2	418.4	337.8	98.8	33.2	20.3
50°	1184.6	1042.8	923.6	798.4	683.1	570.1	466.7	374.7	99.5	30.2	16.6
52.5°	1318.8	1167.2	1033.7	888.9	761.6	630.4	518.0	410.9	98.0	26.4	13.6
55°	1505.0	1327.0	1172.4	1012.6	863.3	715.5	588.1	465.2	98.8	23.4	11.3
57.5°	1848.1	1639.2	1453.0	1243.3	1071.4	880.6	726.1	576.8	107.8	19.6	8.3
60°	2340.4	2068.9	1807.4	1551.7	1333.1	1106.1	905.6	729.8	126.6	15.9	6.0
62.5°	2671.4	2316.3	2004.1	1722.1	1468.0	1230.5	1011.8	812.0	139.5	12.8	3.7
63°	2705.3	2338.1	2024.5	1733.5	1474.1	1236.6	1016.4	818.1	140.2	12.0	3.7
65°	2769.4	2375.9	2035.8	1735.6	1468.0	1228.3	1013.4	817.3	141.8	9.8	3.0
67.5°	2696.3	2317.8	1970.2	1670.9	1415.2	1179.3	975.6	787.2	141.0	6.7	2.3
70°	2411.3	2097.6	1792.2	1513.3	1281.0	1067.7	888.2	717.8	129.6	4.6	1.6
72.5°	1770.4	1557.0	1320.2	1119.0	965.1	801.5	683.8	539.1	100.3	3.0	0.7
75°	524.8	478.0	401.9	354.4	313.0	258.7	229.9	179.5	51.3	1.6	0.0
77.5°	104.8	95.0	85.2	77.6	73.2	62.6	59.6	49.0	21.1	0.7	0.0
80°	55.0	45.3	38.4	33.9	29.4	24.1	20.3	16.6	3.7	0.0	0.0
82.5°	52.7	35.4	25.6	21.1	18.1	14.3	11.3	8.3	2.3	0.0	0.0
85°	19.6	15.1	11.3	9.0	7.6	6.7	5.3	4.6	0.0	0.0	0.0
87.5°	3.0	2.3	2.3	1.6	1.6	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

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CATALOG NUMBER: VXS-F03-LED-E1-SL2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	159.1	159.1	159.1	159.1	159.1	159.1	159.1
2.5°	134.9	128.9	125.9	122.2	122.2	121.3	122.9
5°	112.3	104.0	98.0	93.5	94.3	92.0	92.7
7.5°	95.0	86.7	81.5	78.4	77.6	76.9	76.9
10°	82.2	74.6	70.2	67.9	67.2	67.2	67.2
12.5°	73.2	65.6	61.9	60.3	60.3	59.6	59.6
15°	65.6	59.6	55.8	54.3	54.3	53.6	54.3
17.5°	59.6	53.6	50.5	49.0	49.0	48.3	48.3
20°	54.3	49.0	46.0	43.7	43.7	43.0	43.7
22.5°	49.7	44.5	40.7	39.2	38.4	37.7	38.4
25°	45.3	40.0	36.2	33.9	33.2	33.2	32.4
27.5°	41.5	36.2	31.7	29.4	28.6	28.6	27.9
30°	37.7	31.7	27.2	24.9	24.1	24.1	24.1
32.5°	33.9	27.2	23.4	21.1	20.3	20.3	20.3
35°	30.2	23.4	19.6	17.3	16.6	16.6	16.6
37.5°	25.6	19.6	15.1	13.6	12.8	12.0	12.0
40°	21.9	15.1	11.3	9.8	8.3	8.3	8.3
42.5°	18.1	12.0	8.3	6.0	5.3	4.6	5.3
45°	15.1	9.0	5.3	3.0	2.3	2.3	2.3
47.5°	12.0	6.0	2.3	0.7	0.7	0.7	0.7
50°	9.0	3.7	0.7	0.0	0.0	0.7	0.7
52.5°	6.7	2.3	0.0	0.0	0.0	0.0	0.0
55°	3.7	0.7	0.0	0.0	0.0	0.0	0.0
57.5°	2.3	0.0	0.0	0.0	0.0	0.0	0.0
60°	1.6	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)