

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: P149336

Luminaire Tested: **VXS-F05-LED-E1-SL2-HSS-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149336
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-F05-LED-E1-SL2-HSS-7050
Description: VISION SITE SMALL LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL AND
HOUSE SIDE SHIELD
Light Source: (35) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7765.9 lumens
Efficiency: N/A
Efficacy: 58.3 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 133.3
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



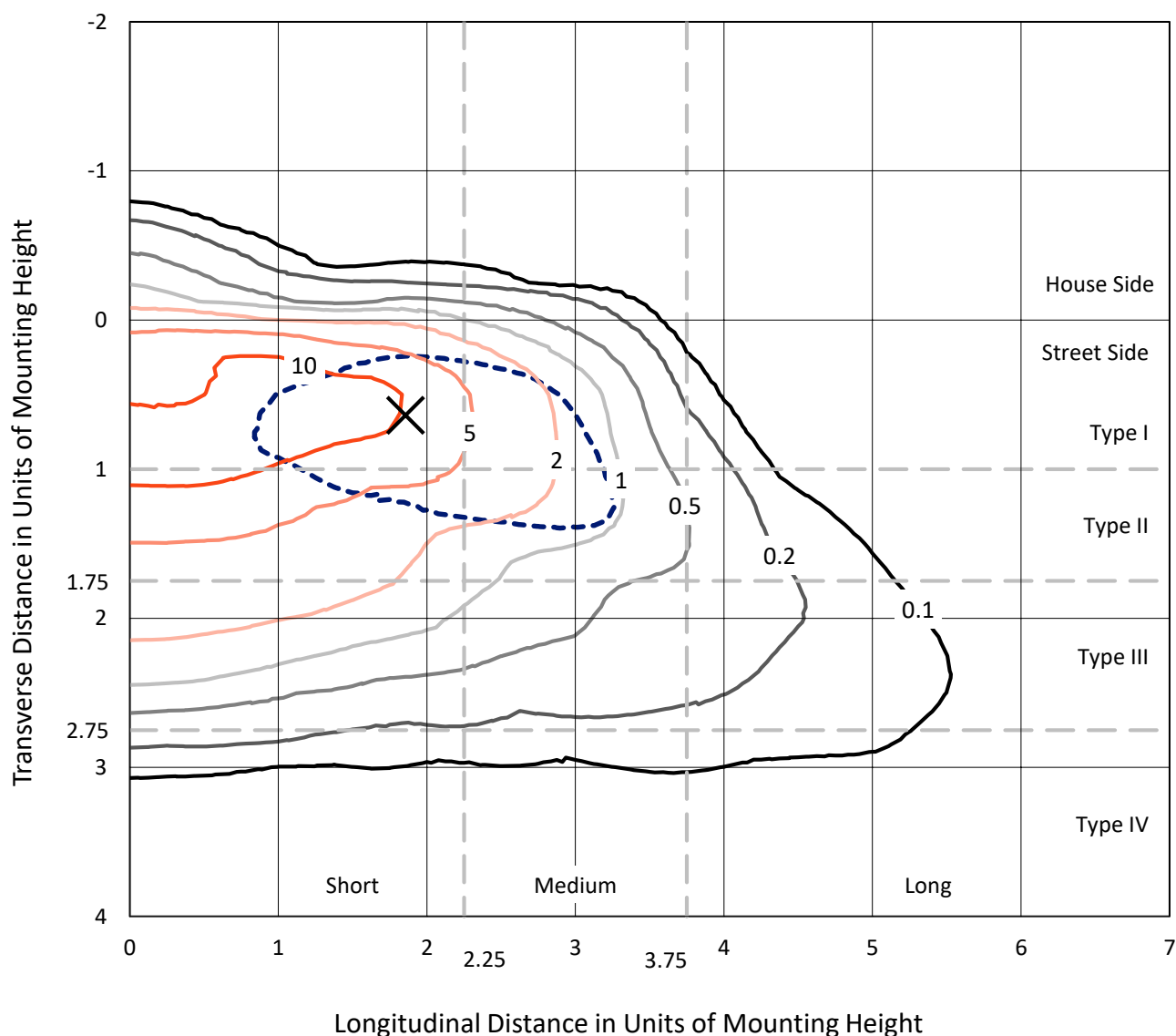
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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd

--- 1/2 Max cd

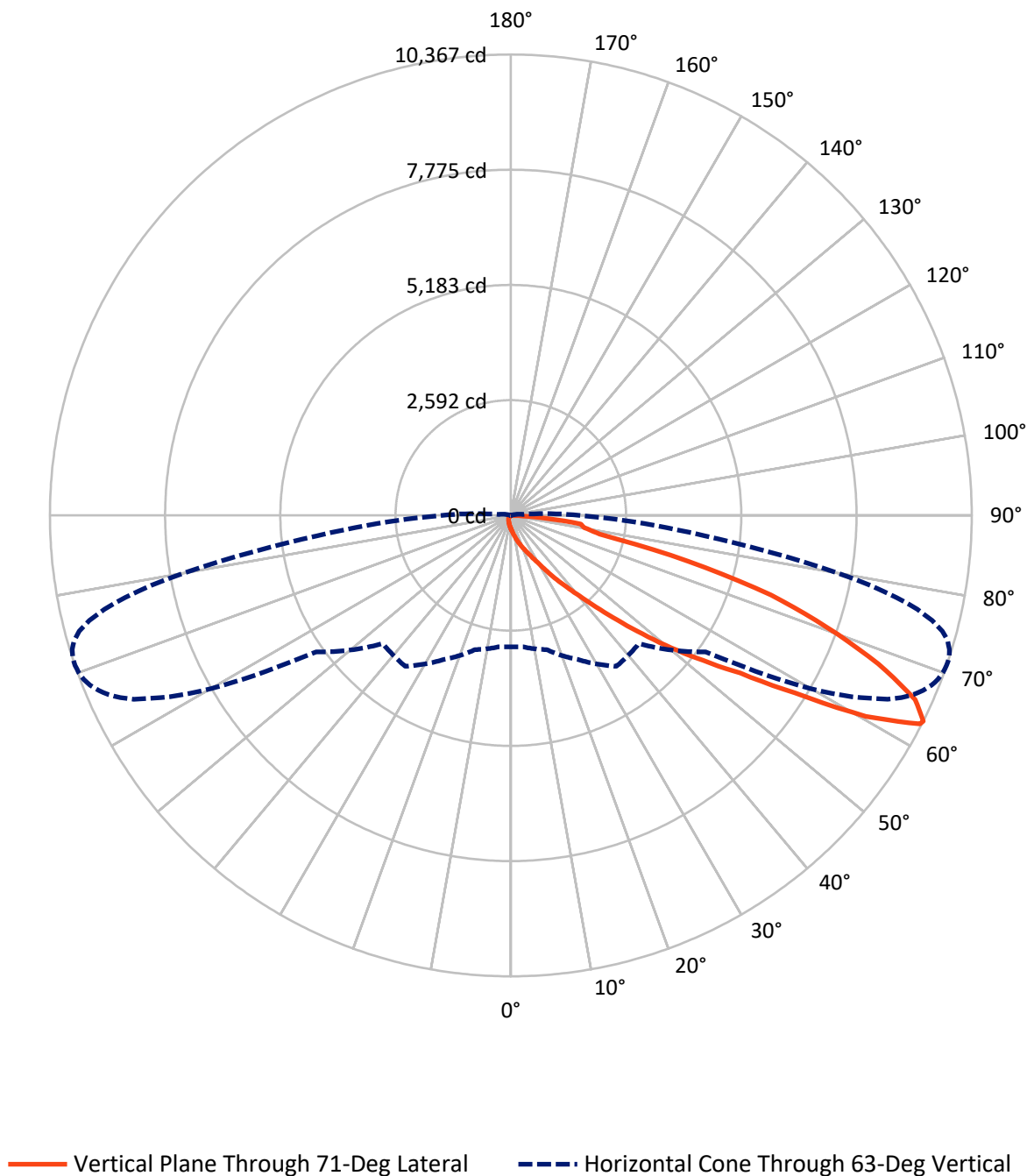


Based on 10 foot mounting height. Maximum calculated value = 16.3 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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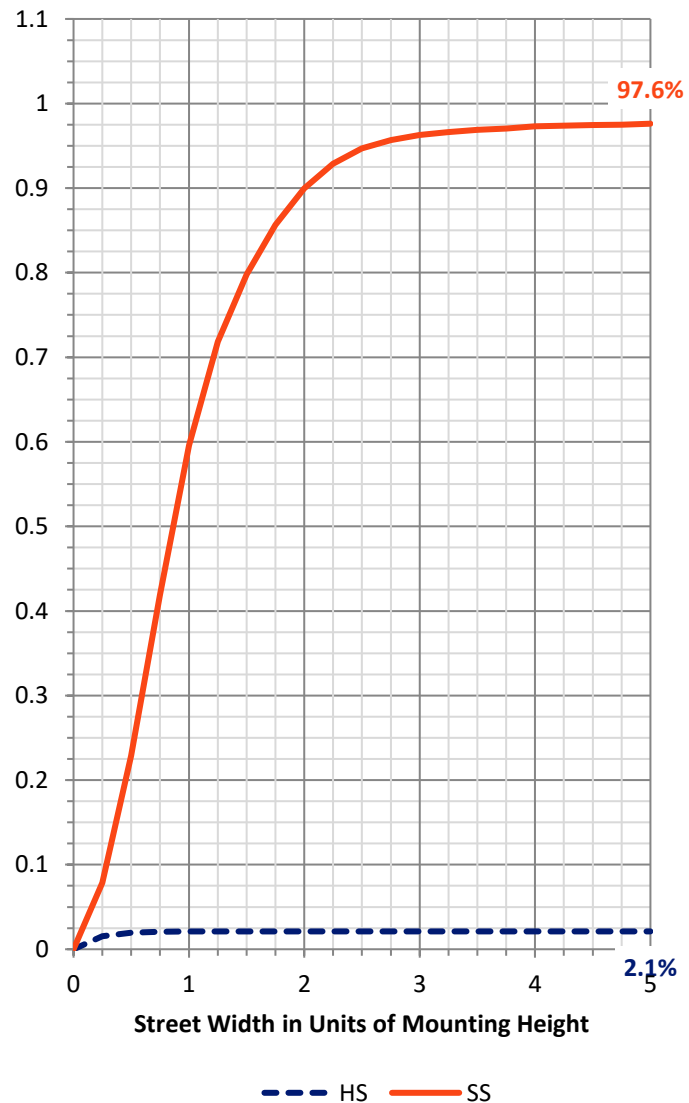
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	164.9	0.0	164.9
	% Fixture	2.1	0.0	2.1
Street Side	Lumens	7601.0	0.0	7601.0
	% Fixture	97.9	0.0	97.9
Total	Lumens	7765.9	0.0	7765.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	32.9	0.4
10°-20°	127.7	1.6
20°-30°	259.4	3.3
30°-40°	633.7	8.2
40°-50°	1417.1	18.2
50°-60°	1992.7	25.7
60°-70°	2343.2	30.2
70°-80°	846.1	10.9
80°-90°	113.1	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°	7765.9	100.0
0°-180°	7765.9	100.0

Coefficient of Utilization



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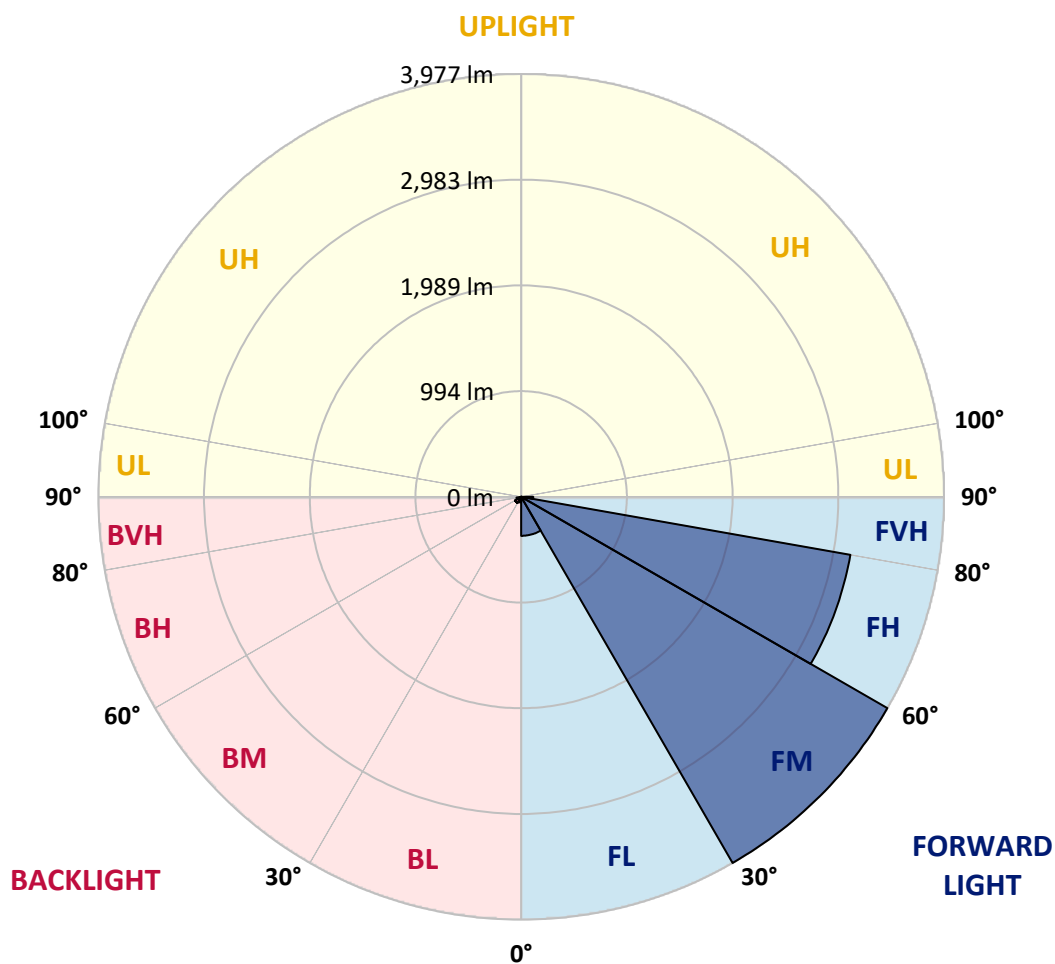
CATALOG NUMBER: VXS-F05-LED-E1-SL2-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	367.0	4.7			
FM	(30°-60°)	3977.0	51.2			
FH	(60°-80°)	3144.1	40.5			G2/5000
FVH	(80°-90°)	112.9	1.5			G2/225
BL	(0°-30°)	53.0	0.7	B0/110		
BM	(30°-60°)	66.4	0.9	B0/220		
BH	(60°-80°)	45.2	0.6	B0/110		G0/110
BVH	(80°-90°)	0.2	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-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9
2.5°	389.6	393.9	391.1	384.0	375.5	364.2	354.4	354.4	353.0	348.7	350.2
5°	511.1	512.4	506.8	489.8	474.4	450.4	423.5	420.7	417.9	413.7	412.2
7.5°	629.6	635.3	629.6	611.3	580.2	543.5	501.1	497.0	488.5	488.5	482.8
10°	751.1	751.1	745.4	724.2	696.1	643.7	590.2	583.1	573.2	570.4	561.9
12.5°	837.2	837.2	834.4	823.1	800.5	753.9	688.9	681.9	669.2	665.0	655.0
15°	871.1	871.1	872.5	882.4	883.7	862.6	794.8	789.2	776.5	765.2	760.9
17.5°	892.2	890.9	890.9	905.0	930.4	944.5	900.7	895.0	880.9	875.3	861.2
20°	938.9	936.1	927.6	927.6	951.5	1000.9	1000.9	999.6	984.0	979.8	972.7
22.5°	1008.0	1005.2	979.8	958.7	969.9	1032.0	1089.9	1087.0	1081.5	1075.8	1071.5
25°	1120.9	1111.1	1067.4	1005.2	995.3	1061.7	1157.7	1164.8	1169.0	1169.0	1171.8
27.5°	1291.8	1279.1	1201.5	1085.7	1041.9	1109.6	1232.5	1246.6	1259.3	1262.2	1274.8
30°	1529.0	1506.4	1394.8	1225.4	1125.2	1180.2	1342.6	1358.1	1376.5	1382.2	1401.9
32.5°	1918.7	1905.9	1798.7	1544.5	1329.9	1318.7	1496.5	1516.3	1540.3	1550.2	1574.2
35°	2511.6	2514.4	2426.8	2198.1	1901.7	1746.4	1771.8	1788.7	1797.2	1826.8	1839.6
37.5°	2914.0	2921.0	2940.7	2850.4	2638.7	2480.5	2281.5	2299.8	2256.1	2260.3	2261.7
40°	3134.2	3156.8	3272.5	3360.1	3343.1	3251.4	3091.8	3101.7	3019.8	3001.5	2912.5
42.5°	3281.0	3310.7	3495.6	3766.6	3905.0	3988.3	3951.6	3947.4	3883.8	3859.8	3785.0
45°	3372.7	3399.6	3632.5	4032.1	4351.2	4594.0	4694.2	4705.5	4651.8	4627.9	4565.7
47.5°	3368.5	3399.6	3649.5	4130.9	4601.0	4989.3	5271.6	5285.8	5318.2	5297.0	5301.2
50°	3182.2	3211.8	3463.1	3962.9	4527.7	5169.9	5686.7	5731.9	5784.1	5819.4	5836.4
52.5°	2956.3	2977.5	3200.5	3674.9	4214.2	5095.1	5932.3	6010.1	6087.7	6154.0	6200.6
55°	2873.0	2897.0	3072.0	3465.9	3962.9	4781.8	6046.7	6161.0	6271.2	6379.9	6468.8
57.5°	2916.8	2939.4	3065.0	3367.2	3813.3	4451.4	6079.2	6257.1	6437.8	6614.3	6789.3
60°	3077.7	3101.7	3209.0	3458.9	3773.7	4260.8	5952.1	6247.2	6547.9	6855.6	7145.1
62.5°	3014.2	3024.0	3182.2	3619.8	4056.1	4098.4	5490.5	5902.7	6361.6	6835.9	7303.2
63°	2953.5	2964.8	3125.7	3576.1	4142.2	4074.4	5347.9	5782.7	6266.9	6778.0	7286.2
65°	2678.1	2679.6	2802.4	3158.1	4046.2	4116.8	4712.5	5127.7	5683.8	6296.6	6939.0
67.5°	1999.1	1989.2	2107.8	2378.9	3176.6	4118.2	4044.8	4277.7	4664.6	5208.1	5784.1
70°	708.7	693.2	885.2	1260.7	1979.4	3368.5	3475.9	3491.4	3598.7	3892.3	4253.8
72.5°	230.2	234.4	282.4	461.7	912.0	2267.4	3146.8	3098.9	3070.7	3069.2	3117.2
75°	91.8	93.2	113.0	204.7	409.4	1092.7	2755.9	2782.7	2792.5	2806.6	2822.2
77.5°	43.7	48.0	63.5	114.4	203.3	540.7	1972.2	2199.6	2329.4	2429.7	2490.4
80°	15.5	18.3	35.3	70.6	94.6	248.5	1039.1	1253.7	1444.2	1689.9	1901.7
82.5°	0.0	0.0	7.0	49.4	52.2	100.2	426.3	499.8	571.8	741.1	951.5
85°	0.0	0.0	0.0	14.1	15.5	16.9	144.0	173.7	194.8	227.3	262.6
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	1.5	4.2	8.5	21.1	32.4
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-F05-LED-E1-SL2-HSS-7050

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9
2.5°	347.3	345.9	345.9	343.1	341.7	338.9	337.4	333.2	331.8	331.8	331.8
5°	410.9	405.2	402.4	395.3	391.1	389.6	382.6	379.8	375.5	377.0	369.8
7.5°	481.5	471.5	467.3	457.4	454.6	444.7	441.9	434.8	430.6	422.2	419.3
10°	559.1	546.3	539.3	523.7	519.6	512.4	504.0	495.5	488.5	480.0	475.8
12.5°	648.0	636.7	631.1	609.8	600.0	590.2	578.9	567.6	556.3	549.2	539.3
15°	752.4	734.1	728.5	708.7	691.8	679.1	663.5	649.4	640.9	626.8	617.0
17.5°	855.5	837.2	833.0	803.3	785.0	776.5	759.6	741.1	725.7	711.5	696.1
20°	958.7	945.9	934.6	906.3	886.6	872.5	849.9	831.5	818.9	799.1	779.3
22.5°	1061.7	1048.9	1040.5	1010.9	992.5	972.7	953.0	933.2	914.8	890.9	868.3
25°	1167.6	1159.1	1154.8	1128.0	1111.1	1092.7	1073.0	1050.4	1027.8	1000.9	977.0
27.5°	1277.7	1280.5	1272.0	1266.4	1248.0	1235.3	1204.2	1188.7	1171.8	1139.3	1109.6
30°	1417.4	1425.9	1423.1	1427.4	1416.1	1407.6	1383.5	1363.8	1344.0	1313.0	1279.1
32.5°	1593.9	1605.2	1610.9	1626.4	1620.7	1617.9	1610.9	1582.6	1568.5	1514.8	1500.7
35°	1866.4	1860.7	1884.8	1897.4	1891.8	1889.0	1880.5	1865.0	1848.1	1809.9	1774.6
37.5°	2220.7	2226.4	2234.8	2209.4	2192.5	2191.1	2165.7	2150.2	2126.1	2083.8	2041.5
40°	2870.2	2834.9	2795.3	2688.1	2641.5	2614.6	2539.8	2518.7	2477.7	2419.8	2376.1
42.5°	3714.4	3679.2	3560.5	3381.2	3285.3	3152.5	3091.8	3017.0	2959.1	2864.6	2813.7
45°	4553.1	4451.4	4437.3	4228.3	4109.7	3934.7	3825.9	3700.3	3569.0	3444.8	3354.4
47.5°	5260.3	5237.7	5168.6	5041.6	4931.4	4784.6	4644.8	4451.4	4315.9	4139.4	3977.0
50°	5826.4	5825.1	5799.7	5726.2	5634.5	5515.9	5393.1	5229.3	5075.4	4859.4	4685.7
52.5°	6250.1	6272.6	6281.0	6258.4	6223.2	6118.8	6056.6	5919.7	5789.7	5606.2	5418.4
55°	6560.6	6643.9	6686.2	6734.3	6724.4	6687.7	6684.9	6595.9	6536.6	6391.2	6258.4
57.5°	6944.6	7081.6	7212.8	7445.8	7454.3	7536.2	7578.5	7620.8	7632.1	7574.3	7530.5
60°	7433.1	7712.6	7961.1	8448.2	8575.2	8775.8	8905.6	9046.7	9166.7	9176.7	9173.8
62.5°	7777.6	8208.2	8609.1	9331.9	9579.0	9810.6	9984.2	10121.1	10204.5	10289.1	10328.7
63°	7787.5	8259.0	8685.4	9430.8	9690.6	9910.8	10076.0	10203.0	10290.6	10341.3	10366.8
65°	7548.8	8120.6	8628.9	9371.5	9615.8	9837.4	9923.5	10006.7	10049.1	10068.9	9994.1
67.5°	6398.2	6957.3	7550.3	8380.4	8589.3	8854.7	8925.4	8967.7	8987.5	8983.2	8919.7
70°	4784.6	5253.3	5912.5	6861.3	7138.0	7397.8	7558.8	7627.9	7650.5	7643.4	7548.8
72.5°	3340.3	3615.6	4159.2	5215.1	5592.1	5925.3	6124.4	6227.5	6248.6	6206.2	6118.8
75°	2805.2	2819.4	2942.2	3519.6	3872.5	4228.3	4452.7	4517.7	4475.3	4346.9	4123.8
77.5°	2504.6	2535.5	2535.5	2621.7	2690.9	2789.7	2810.9	2652.7	2469.2	2232.0	2040.0
80°	2100.7	2209.4	2285.7	2349.2	2356.3	2336.5	2284.2	2195.3	2054.2	1873.5	1673.0
82.5°	1276.3	1490.9	1578.3	1905.9	2066.8	2175.5	2167.2	2048.5	1941.2	1753.5	1582.6
85°	321.9	347.3	377.0	489.8	549.2	670.6	746.8	782.2	794.8	729.9	660.7
87.5°	31.1	21.1	35.3	26.8	38.1	28.2	38.1	35.3	43.7	46.6	50.8
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9
2.5°	328.9	327.6	326.1	324.7	323.3	321.9	319.1	319.1	316.3	314.8	313.4
5°	365.7	362.8	361.5	358.5	354.4	351.5	347.3	341.7	337.4	336.0	333.2
7.5°	412.2	405.2	402.4	398.1	392.4	384.0	378.3	374.1	367.0	362.8	354.4
10°	464.5	457.4	448.9	440.5	432.0	422.2	415.0	409.4	398.1	392.4	382.6
12.5°	530.9	518.1	508.3	497.0	485.7	474.4	465.9	448.9	439.1	426.3	417.9
15°	598.5	587.4	576.1	561.9	545.0	526.6	518.1	502.6	489.8	470.2	458.9
17.5°	680.5	659.3	642.4	625.4	609.8	593.0	576.1	552.0	533.7	516.7	494.1
20°	760.9	735.5	717.2	694.6	672.0	645.2	625.4	608.5	583.1	560.5	536.5
22.5°	847.0	821.7	792.0	769.4	738.3	717.2	690.4	662.2	636.7	607.0	577.4
25°	951.5	924.8	890.9	861.2	825.9	796.3	763.7	731.3	700.2	666.3	628.3
27.5°	1080.0	1051.8	1015.1	979.8	933.2	896.5	865.4	821.7	782.2	739.8	696.1
30°	1242.4	1211.3	1166.1	1115.3	1068.7	1027.8	984.0	926.1	882.4	831.5	775.0
32.5°	1454.2	1417.4	1356.7	1308.7	1250.9	1197.2	1136.5	1078.7	1016.5	950.2	885.2
35°	1720.9	1687.0	1616.5	1545.9	1482.4	1418.9	1342.6	1276.3	1188.7	1108.3	1025.0
37.5°	1997.7	1937.0	1872.0	1795.8	1716.8	1640.5	1547.4	1455.5	1355.3	1267.8	1163.3
40°	2313.9	2240.5	2186.8	2105.0	1993.5	1884.8	1798.7	1684.2	1558.7	1441.5	1318.7
42.5°	2747.4	2665.5	2569.4	2445.2	2364.8	2237.7	2126.1	1990.7	1825.5	1694.2	1545.9
45°	3248.5	3137.0	3043.8	2923.8	2826.4	2668.3	2538.4	2357.7	2192.5	2020.3	1839.6
47.5°	3820.3	3682.0	3546.4	3427.9	3272.5	3117.2	2952.0	2760.1	2548.3	2359.1	2144.6
50°	4476.8	4280.5	4092.7	3940.3	3727.2	3547.9	3368.5	3152.5	2918.1	2700.7	2456.5
52.5°	5206.7	4979.4	4730.9	4496.6	4249.5	4019.4	3803.4	3554.9	3293.7	3028.3	2755.9
55°	6087.7	5916.8	5624.6	5326.7	4996.4	4688.6	4410.5	4102.7	3785.0	3436.3	3149.7
57.5°	7466.9	7383.6	7139.5	6841.6	6411.0	6036.8	5565.3	5188.3	4728.1	4248.1	3878.2
60°	9336.2	9233.2	9096.2	8854.7	8513.2	8004.9	7485.3	6899.5	6199.2	5534.2	4903.1
62.5°	10333.0	10296.2	10184.7	10018.0	9699.1	9298.0	8774.3	8130.5	7339.9	6532.3	5727.7
63°	10362.6	10316.0	10220.0	10050.6	9769.6	9381.3	8867.5	8242.1	7468.4	6645.3	5823.6
65°	9961.7	9943.2	9845.8	9660.9	9468.9	9172.4	8774.3	8236.4	7586.9	6809.1	5991.6
67.5°	8835.0	8779.9	8630.3	8573.8	8439.7	8233.6	7930.1	7560.1	7095.6	6484.4	5778.4
70°	7472.6	7390.8	7203.0	7102.7	6939.0	6809.1	6624.1	6360.1	6073.6	5647.2	5120.6
72.5°	6028.4	5859.0	5686.7	5425.5	5196.8	4965.3	4760.5	4574.2	4259.4	4087.2	3687.6
75°	3914.9	3607.2	3312.0	2916.8	2561.0	2246.1	1939.8	1784.5	1461.2	1329.9	1142.2
77.5°	1857.9	1685.7	1454.2	1274.8	1046.1	854.1	697.4	523.7	410.9	321.9	245.7
80°	1499.3	1353.9	1214.1	1051.8	879.6	701.7	537.9	402.4	285.2	197.6	139.8
82.5°	1337.0	1178.9	1006.6	895.0	777.9	636.7	522.4	426.3	314.8	230.2	156.7
85°	519.6	437.6	337.4	275.3	214.6	176.5	159.5	110.2	86.1	67.8	52.2
87.5°	45.2	36.7	29.6	19.8	21.1	11.3	12.7	8.5	7.0	7.0	5.6
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9	297.9
2.5°	312.0	310.6	309.2	306.3	306.3	303.5	302.1	300.7	293.7	278.1	265.4
5°	327.6	324.7	321.9	317.6	314.8	310.6	307.8	303.5	288.0	258.3	233.0
7.5°	350.2	344.5	340.2	331.8	327.6	321.9	317.6	310.6	285.2	240.0	204.7
10°	377.0	367.0	360.0	350.2	341.7	334.6	327.6	317.6	282.4	220.2	179.3
12.5°	409.4	398.1	384.0	372.7	361.5	351.5	341.7	328.9	278.1	203.3	159.5
15°	441.9	425.0	415.0	399.6	384.0	369.8	355.8	344.5	279.6	185.0	142.6
17.5°	478.5	461.7	440.5	423.5	406.6	388.3	371.3	348.7	272.4	170.8	129.8
20°	513.9	489.8	470.2	448.9	425.0	402.4	381.1	361.5	266.8	156.7	118.5
22.5°	552.0	523.7	498.3	471.5	441.9	416.5	391.1	365.7	257.0	144.0	108.7
25°	598.5	566.1	529.4	497.0	465.9	434.8	402.4	371.3	247.0	132.7	101.7
27.5°	655.0	612.7	576.1	535.0	491.3	451.8	416.5	382.6	237.2	124.2	94.6
30°	727.0	677.6	625.4	573.2	526.6	481.5	432.0	389.6	227.3	115.8	87.6
32.5°	823.1	760.9	697.4	636.7	574.6	516.7	464.5	409.4	221.7	108.7	80.5
35°	950.2	869.6	792.0	715.8	640.9	570.4	502.6	440.5	221.7	100.2	72.0
37.5°	1070.2	977.0	878.1	783.5	694.6	612.7	532.2	457.4	210.4	93.2	65.0
40°	1200.0	1088.5	972.7	861.2	753.9	652.2	560.5	474.4	200.5	84.7	57.9
42.5°	1399.1	1257.9	1106.8	977.0	848.5	722.8	608.5	506.8	187.8	76.3	50.8
45°	1660.3	1480.9	1303.1	1145.0	981.2	827.4	691.8	566.1	185.0	69.2	43.7
47.5°	1939.8	1728.1	1519.1	1317.2	1125.2	945.9	783.5	632.4	185.0	62.1	38.1
50°	2217.9	1952.5	1729.4	1495.1	1279.1	1067.4	873.9	701.7	186.3	56.5	31.1
52.5°	2469.2	2185.5	1935.5	1664.5	1425.9	1180.2	969.9	769.4	183.5	49.4	25.4
55°	2817.9	2484.8	2195.3	1896.1	1616.5	1339.8	1101.2	871.1	185.0	43.7	21.1
57.5°	3460.3	3069.2	2720.5	2328.1	2006.1	1649.0	1359.6	1080.0	201.9	36.7	15.5
60°	4382.2	3874.0	3384.0	2905.5	2496.1	2071.1	1695.5	1366.6	237.2	29.6	11.3
62.5°	5002.0	4337.0	3752.5	3224.6	2748.8	2304.0	1894.6	1520.5	261.1	24.0	7.0
63°	5065.5	4377.9	3790.7	3245.7	2760.1	2315.3	1903.1	1531.8	262.6	22.6	7.0
65°	5185.5	4448.6	3811.8	3249.9	2748.8	2299.8	1897.4	1530.4	265.4	18.3	5.6
67.5°	5048.6	4339.9	3689.0	3128.5	2649.9	2208.1	1826.8	1473.9	264.0	12.7	4.2
70°	4514.9	3927.6	3355.9	2833.5	2398.7	1999.1	1663.1	1344.0	242.8	8.5	2.8
72.5°	3314.9	2915.3	2472.0	2095.1	1807.0	1500.7	1280.5	1009.4	187.8	5.6	1.5
75°	982.6	895.0	752.4	663.5	585.9	484.2	430.6	336.0	96.0	2.8	0.0
77.5°	196.3	177.9	159.5	145.4	137.0	117.2	111.5	91.8	39.5	1.5	0.0
80°	103.1	84.7	72.0	63.5	55.0	45.2	38.1	31.1	7.0	0.0	0.0
82.5°	98.9	66.3	48.0	39.5	33.9	26.8	21.1	15.5	4.2	0.0	0.0
85°	36.7	28.2	21.1	16.9	14.1	12.7	9.8	8.5	0.0	0.0	0.0
87.5°	5.6	4.2	4.2	2.8	2.8	1.5	1.5	1.5	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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CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	297.9	297.9	297.9	297.9	297.9	297.9	297.9
2.5°	252.7	241.5	235.8	228.7	228.7	227.3	230.2
5°	210.4	194.8	183.5	175.0	176.5	172.2	173.7
7.5°	177.9	162.4	152.4	146.8	145.4	144.0	144.0
10°	153.9	139.8	131.3	127.0	125.7	125.7	125.7
12.5°	137.0	122.8	115.8	113.0	113.0	111.5	111.5
15°	122.8	111.5	104.5	101.7	101.7	100.2	101.7
17.5°	111.5	100.2	94.6	91.8	91.8	90.4	90.4
20°	101.7	91.8	86.1	81.9	81.9	80.5	81.9
22.5°	93.2	83.3	76.3	73.4	72.0	70.6	72.0
25°	84.7	74.8	67.8	63.5	62.1	62.1	60.7
27.5°	77.6	67.8	59.3	55.0	53.7	53.7	52.2
30°	70.6	59.3	50.8	46.6	45.2	45.2	45.2
32.5°	63.5	50.8	43.7	39.5	38.1	38.1	38.1
35°	56.5	43.7	36.7	32.4	31.1	31.1	31.1
37.5°	48.0	36.7	28.2	25.4	24.0	22.6	22.6
40°	40.9	28.2	21.1	18.3	15.5	15.5	15.5
42.5°	33.9	22.6	15.5	11.3	9.8	8.5	9.8
45°	28.2	16.9	9.8	5.6	4.2	4.2	4.2
47.5°	22.6	11.3	4.2	1.5	1.5	1.5	1.5
50°	16.9	7.0	1.5	0.0	0.0	1.5	1.5
52.5°	12.7	4.2	0.0	0.0	0.0	0.0	0.0
55°	7.0	1.5	0.0	0.0	0.0	0.0	0.0
57.5°	4.2	0.0	0.0	0.0	0.0	0.0	0.0
60°	2.8	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
63°	1.5	0.0	0.0	0.0	0.0	0.0	0.0
65°	1.5	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)