

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: P149885

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149885
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
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
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7566.2 lumens
Efficiency: N/A
Efficacy: 96.6 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

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

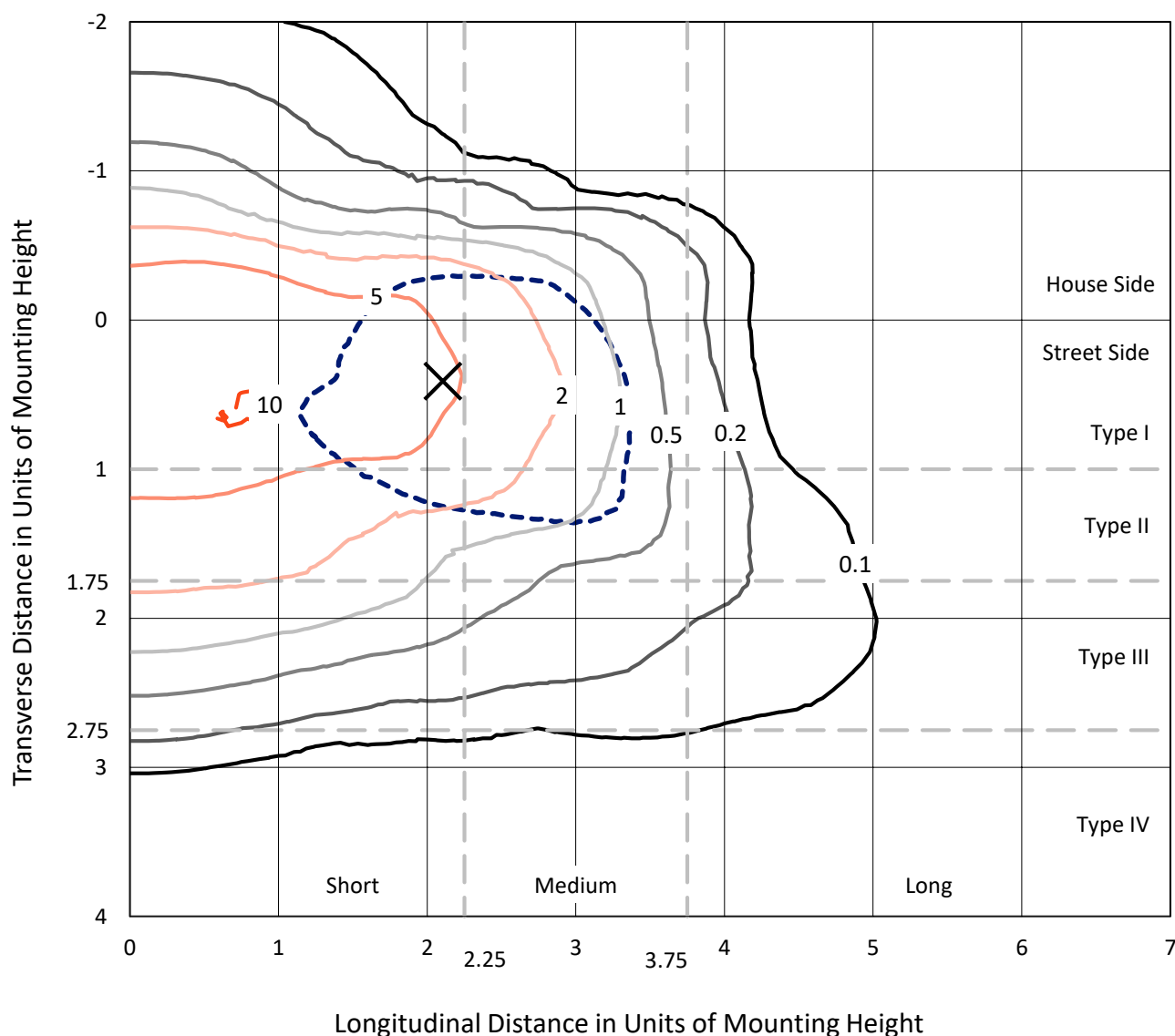


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

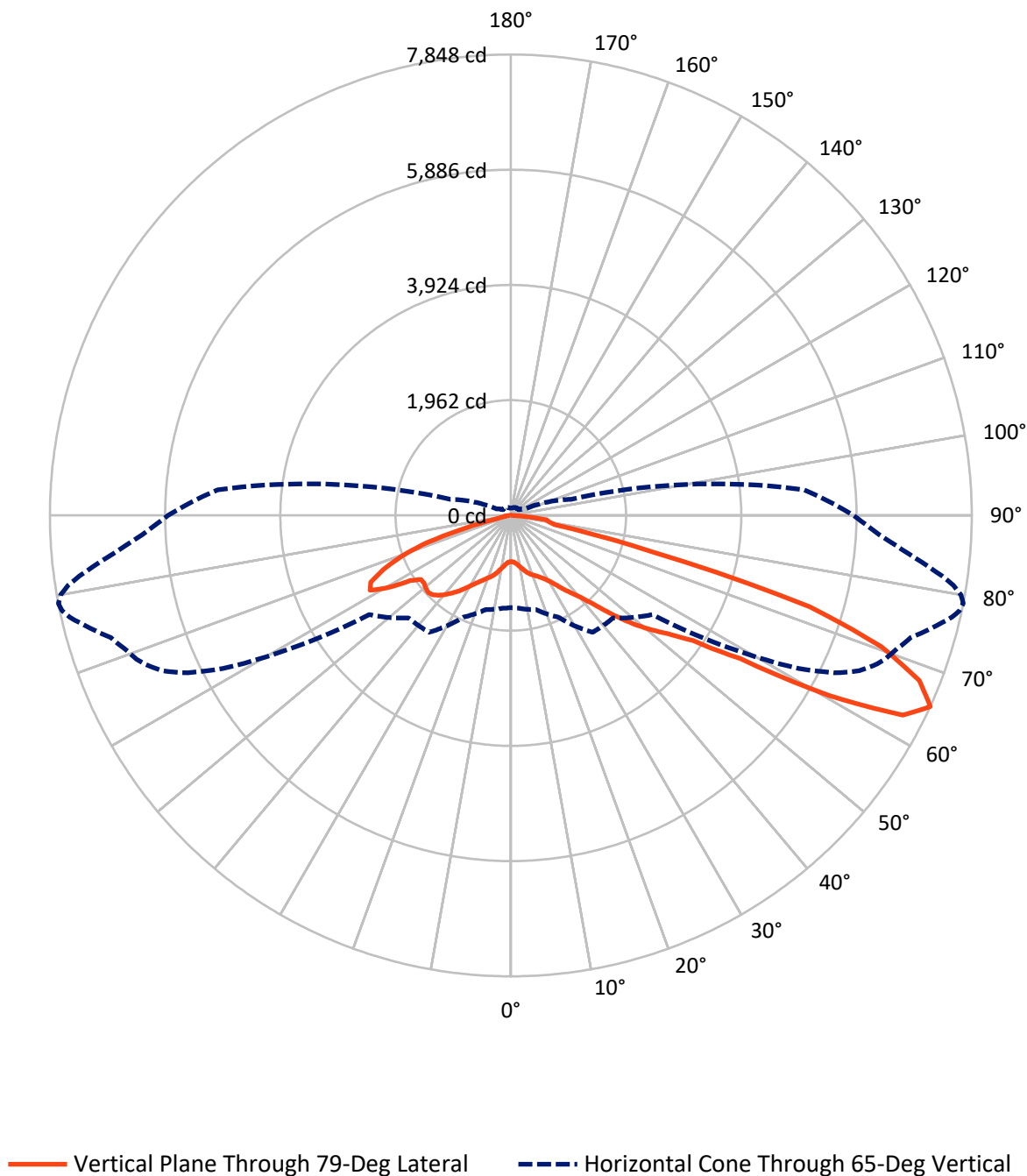


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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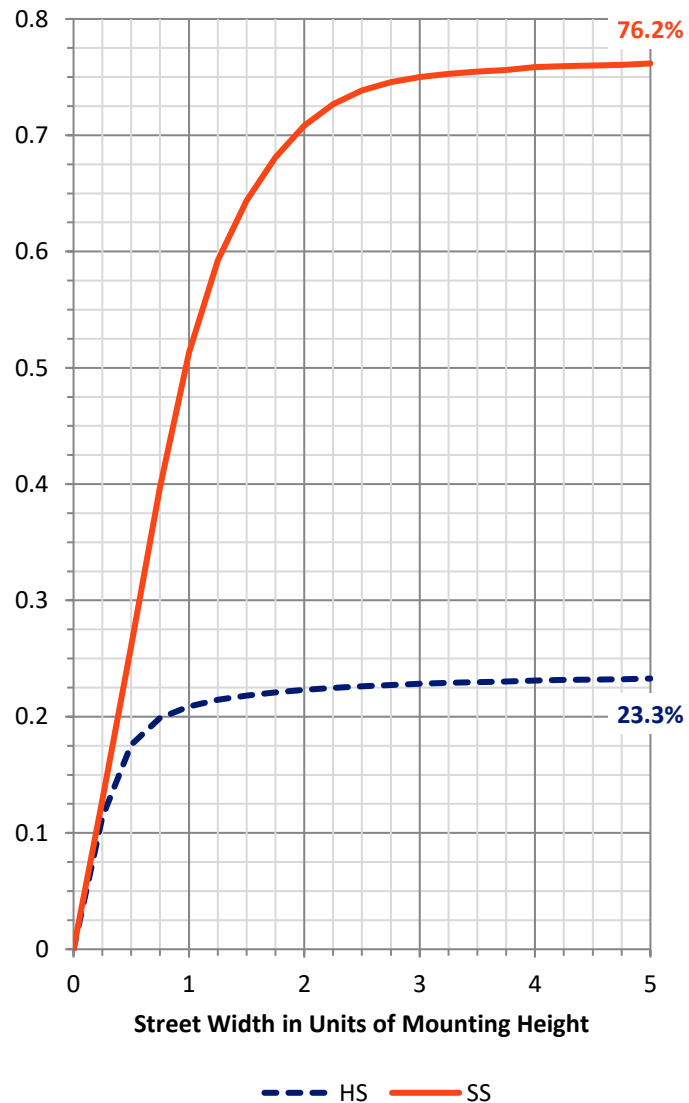
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1788.6	0.0	1788.6
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	5777.5	0.0	5777.5
	% Fixture	76.4	0.0	76.4
Total	Lumens	7566.2	0.0	7566.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	78.3	1.0
10°-20°	256.0	3.4
20°-30°	442.1	5.8
30°-40°	731.9	9.7
40°-50°	1241.3	16.4
50°-60°	1649.2	21.8
60°-70°	2130.4	28.2
70°-80°	893.5	11.8
80°-90°	143.5	1.9
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°	7566.2	100.0
0°-180°	7566.2	100.0

Coefficient of Utilization



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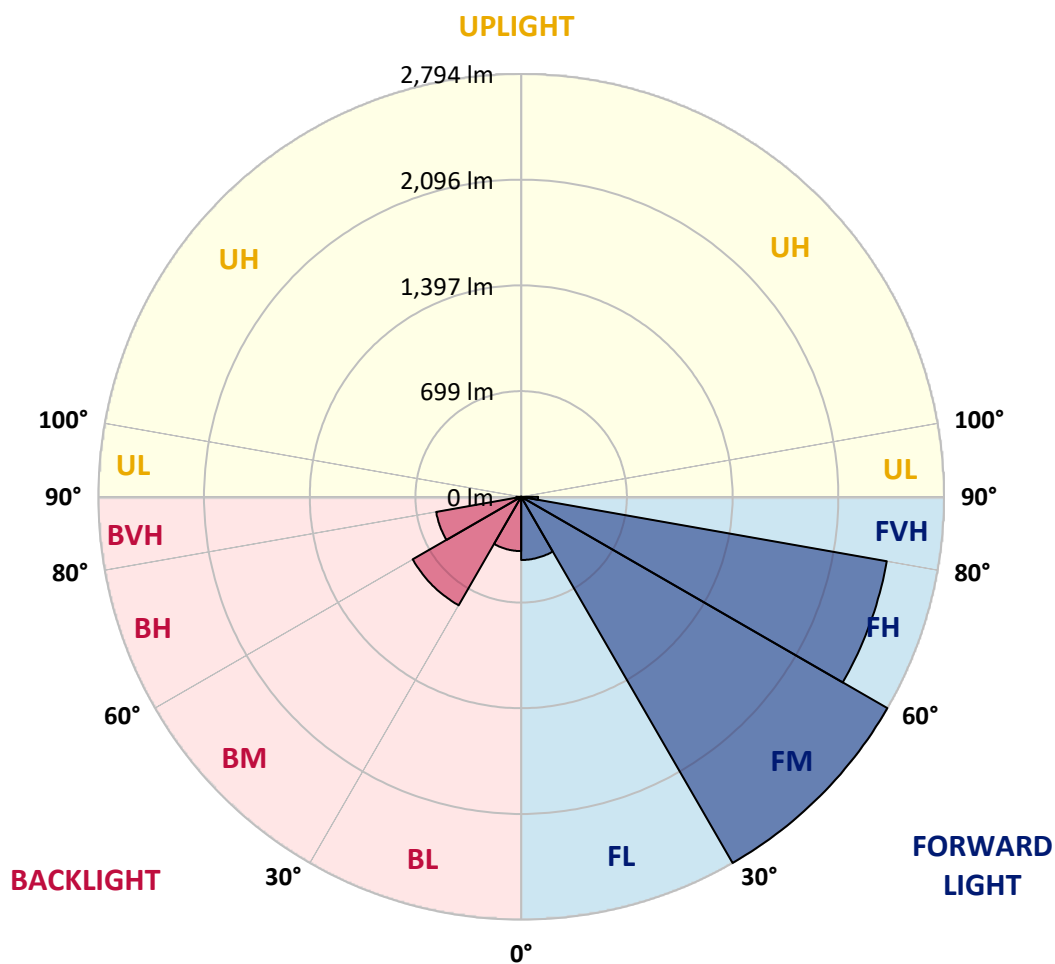
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	417.5	5.5			
FM	(30°-60°)	2794.4	36.9			
FH	(60°-80°)	2453.4	32.4			G2/5000
FVH	(80°-90°)	112.2	1.5			G2/225
BL	(0°-30°)	358.9	4.7	B1/500		
BM	(30°-60°)	827.9	10.9	B1/1000		
BH	(60°-80°)	570.4	7.5	B2/1000		G2/1000
BVH	(80°-90°)	31.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G2

Type II Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	785.1	787.6	785.9	787.6	789.2	790.1	791.7	790.9	790.9	791.7	790.1
5°	785.1	785.1	787.6	791.7	793.4	798.2	804.0	803.2	804.0	803.2	804.9
7.5°	801.6	800.7	803.2	808.2	809.8	817.3	827.2	828.8	830.5	830.5	833.0
10°	830.5	829.6	832.1	834.6	837.1	842.9	856.9	862.7	863.5	864.4	867.7
12.5°	866.8	866.0	862.7	862.7	861.9	872.5	891.6	902.3	903.9	907.3	909.7
15°	892.4	889.9	885.0	881.7	885.8	903.1	931.2	943.5	945.2	947.7	954.3
17.5°	917.2	914.7	903.9	895.6	901.5	929.5	967.6	980.7	984.0	986.5	993.9
20°	951.8	950.2	934.5	914.7	913.1	949.3	995.5	1013.0	1015.4	1018.7	1026.1
22.5°	1004.7	997.2	979.1	942.0	923.7	960.9	1015.4	1039.4	1042.6	1045.9	1055.9
25°	1070.7	1067.4	1036.1	979.1	941.1	972.4	1036.9	1066.5	1071.5	1075.6	1088.9
27.5°	1139.3	1134.3	1100.4	1026.1	971.6	995.5	1070.7	1104.6	1111.2	1117.7	1130.2
30°	1200.3	1198.7	1170.6	1089.7	1021.1	1039.4	1125.2	1166.4	1173.9	1182.2	1193.7
32.5°	1343.9	1344.8	1315.9	1233.4	1140.8	1118.5	1203.6	1265.5	1268.8	1278.8	1299.4
35°	1618.9	1622.2	1611.4	1546.2	1442.2	1350.6	1358.9	1419.9	1423.2	1431.5	1451.3
37.5°	1802.9	1809.5	1842.6	1863.2	1810.4	1768.3	1663.4	1639.5	1642.0	1637.0	1632.8
40°	1904.5	1914.4	2001.0	2108.4	2166.2	2167.0	2121.6	2016.0	1975.4	1963.9	1914.4
42.5°	1962.3	1978.8	2101.8	2285.1	2451.0	2564.9	2593.0	2475.8	2446.0	2393.2	2298.2
45°	2000.2	2020.1	2165.4	2416.3	2660.6	2854.7	3000.8	2948.8	2928.9	2896.8	2809.2
47.5°	1993.7	2009.3	2160.4	2460.9	2770.5	3046.2	3305.4	3359.1	3335.1	3326.8	3267.5
50°	1873.2	1887.2	2040.7	2350.3	2710.2	3118.9	3498.5	3650.5	3650.5	3666.1	3648.0
52.5°	1744.4	1755.9	1895.4	2173.6	2515.3	3047.9	3605.9	3857.7	3890.7	3917.9	3960.8
55°	1695.6	1709.6	1815.3	2053.1	2349.4	2844.8	3642.2	4012.8	4074.0	4120.2	4217.6
57.5°	1718.8	1732.7	1807.9	1987.9	2252.0	2637.5	3643.8	4221.8	4339.8	4434.7	4632.0
60°	1818.7	1831.8	1894.6	2048.1	2226.4	2517.8	3573.7	4554.4	4742.6	4920.9	5249.5
62.5°	1772.4	1788.9	1880.5	2148.0	2417.1	2427.0	3320.3	4812.0	5114.9	5378.3	5900.8
65°	1570.2	1587.5	1659.3	1909.4	2428.7	2466.6	2944.7	4816.9	5193.4	5549.2	6113.1
67.5°	1192.0	1198.7	1255.6	1456.3	1942.5	2510.5	2558.3	4246.5	4604.8	5001.9	5583.8
70°	609.2	620.8	637.3	804.0	1250.7	2074.5	2198.3	3129.5	3586.1	3996.4	4695.5
72.5°	211.3	215.4	232.0	307.0	609.2	1361.2	1924.2	2144.7	2420.4	2804.4	3614.2
75°	127.2	127.2	133.0	155.2	278.2	709.1	1712.1	1751.8	1788.9	1917.7	2447.7
77.5°	100.7	102.4	102.4	106.5	154.4	364.0	1300.2	1628.8	1633.7	1646.1	1735.2
80°	71.8	75.1	81.8	85.1	99.9	199.8	729.7	1429.8	1527.3	1574.3	1639.5
82.5°	53.7	57.0	69.3	73.5	77.6	111.4	327.8	986.5	1164.0	1258.1	1487.6
85°	23.9	28.1	47.0	52.0	54.5	59.5	153.6	280.7	322.8	362.4	477.9
87.5°	4.1	4.1	7.5	10.8	15.6	14.8	33.9	47.9	48.7	57.0	63.5
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	790.1	790.1	790.1	789.2	790.1	790.1	790.1	790.1	790.9	790.9	790.9
5°	807.4	805.7	806.5	806.5	806.5	805.7	807.4	806.5	807.4	809.8	809.0
7.5°	833.0	834.6	835.4	836.3	836.3	836.3	837.1	838.8	838.8	841.2	840.4
10°	870.9	870.1	870.9	873.4	875.9	876.7	879.2	878.3	880.0	883.3	886.6
12.5°	911.4	913.1	915.5	918.0	922.1	922.9	925.4	926.2	931.2	931.2	934.5
15°	956.8	957.6	962.6	963.4	968.3	969.9	974.1	975.8	981.6	982.4	985.7
17.5°	998.0	999.7	1002.2	1004.7	1010.5	1013.0	1016.3	1019.5	1024.5	1026.1	1031.9
20°	1031.1	1034.4	1035.2	1040.2	1045.1	1048.4	1051.7	1055.0	1060.0	1062.5	1068.2
22.5°	1060.8	1064.1	1066.5	1070.7	1074.0	1079.0	1080.6	1086.4	1091.3	1095.4	1100.4
25°	1093.0	1097.9	1100.4	1107.9	1110.4	1115.2	1119.4	1125.2	1131.8	1136.8	1143.3
27.5°	1138.4	1145.8	1149.1	1157.4	1163.2	1165.6	1172.2	1180.5	1186.3	1192.0	1198.7
30°	1201.1	1215.1	1217.6	1223.4	1234.2	1235.9	1244.0	1250.7	1259.8	1265.5	1271.3
32.5°	1298.5	1315.9	1317.5	1324.1	1333.3	1336.5	1343.1	1350.6	1364.6	1367.0	1376.2
35°	1448.0	1455.4	1462.0	1464.5	1471.9	1476.1	1481.0	1489.2	1503.3	1501.7	1511.5
37.5°	1627.2	1629.6	1630.4	1622.2	1623.8	1616.4	1625.5	1627.2	1632.0	1636.2	1646.1
40°	1883.0	1857.4	1854.1	1834.3	1814.5	1803.7	1799.7	1783.1	1787.3	1788.9	1797.2
42.5°	2257.0	2207.5	2166.2	2138.1	2089.4	2065.5	2033.3	2007.7	1987.9	1995.3	1998.5
45°	2730.9	2659.8	2593.8	2508.0	2444.4	2399.0	2342.0	2290.9	2267.7	2257.0	2270.2
47.5°	3203.8	3141.1	3063.5	2975.2	2874.5	2799.4	2704.5	2621.0	2563.2	2541.8	2553.4
50°	3612.5	3554.7	3496.1	3444.0	3326.8	3245.2	3115.5	3007.4	2916.6	2870.4	2857.9
52.5°	3951.8	3921.2	3889.8	3846.1	3752.0	3670.3	3567.0	3460.6	3340.1	3246.0	3213.8
55°	4254.7	4273.0	4257.2	4258.0	4220.9	4168.9	4081.3	4002.2	3917.9	3811.4	3766.8
57.5°	4696.4	4803.7	4825.2	4878.9	4905.3	4933.4	4958.1	4911.1	4889.5	4810.4	4811.2
60°	5392.3	5549.2	5685.4	5809.2	5910.8	6009.8	6113.9	6160.1	6211.3	6235.2	6316.9
62.5°	6132.8	6282.3	6485.3	6651.3	6744.6	6873.4	6986.4	7059.9	7149.8	7245.6	7370.3
65°	6316.1	6496.1	6624.0	6734.6	6827.0	6895.6	6957.5	7045.1	7120.1	7272.0	7419.0
67.5°	5846.3	5990.1	6107.3	6216.2	6288.0	6345.8	6401.1	6458.9	6587.7	6725.6	6873.4
70°	5018.3	5191.7	5385.7	5526.8	5562.4	5611.9	5664.8	5739.9	5804.2	5948.7	6061.0
72.5°	4031.8	4281.1	4445.5	4641.1	4683.2	4758.3	4788.1	4846.6	4858.2	4936.7	4966.3
75°	2810.1	3095.8	3260.8	3404.5	3432.5	3391.3	3407.8	3200.5	3147.8	3104.8	3070.2
77.5°	1854.9	1931.7	1958.1	1935.0	1824.5	1737.7	1645.3	1554.5	1564.4	1490.9	1362.1
80°	1649.4	1666.7	1642.8	1619.7	1556.2	1465.3	1382.0	1296.9	1254.8	1210.3	1144.1
82.5°	1604.9	1671.7	1679.1	1651.1	1600.7	1501.7	1400.9	1274.6	1167.3	1068.2	967.6
85°	536.6	653.0	705.0	753.7	768.6	785.9	726.4	645.6	548.2	482.9	378.1
87.5°	68.5	85.1	98.2	84.2	98.2	115.5	83.4	93.3	94.1	58.7	43.7
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	791.7	790.9	790.9	790.9	790.1	790.9	790.9	790.9	790.9	790.9	790.1
5°	809.8	809.8	812.3	813.2	811.5	810.7	811.5	812.3	812.3	811.5	812.3
7.5°	843.7	844.6	846.1	848.6	846.9	847.8	848.6	847.8	850.3	851.1	850.3
10°	886.6	888.3	892.4	893.3	892.4	895.6	896.5	894.8	896.5	896.5	899.8
12.5°	936.2	937.8	942.8	944.4	946.0	946.8	949.3	950.2	952.6	954.3	956.8
15°	989.8	991.5	994.7	1000.5	1002.2	1003.8	1005.5	1010.5	1011.3	1014.6	1017.1
17.5°	1035.2	1037.7	1042.6	1046.7	1049.2	1053.4	1055.0	1060.8	1062.5	1067.4	1071.5
20°	1071.5	1075.6	1079.8	1084.8	1088.9	1093.8	1095.4	1101.2	1104.6	1107.0	1112.0
22.5°	1104.6	1109.5	1115.2	1121.0	1124.4	1131.0	1133.5	1136.0	1143.3	1146.6	1151.6
25°	1147.5	1152.4	1159.1	1166.4	1169.7	1178.0	1180.5	1184.7	1192.8	1196.2	1203.6
27.5°	1206.1	1212.7	1217.6	1225.1	1229.2	1235.0	1240.7	1245.7	1253.2	1258.1	1266.3
30°	1279.6	1284.6	1292.7	1298.5	1305.2	1313.4	1320.0	1325.0	1329.1	1336.5	1345.6
32.5°	1387.7	1388.5	1391.0	1405.1	1411.6	1418.2	1427.4	1431.5	1438.0	1445.5	1455.4
35°	1522.3	1529.7	1535.4	1542.1	1549.5	1556.9	1560.2	1572.6	1578.4	1588.3	1598.2
37.5°	1656.0	1656.8	1670.1	1674.2	1680.7	1688.2	1699.8	1712.1	1727.0	1736.9	1752.5
40°	1799.7	1806.2	1822.8	1831.0	1839.3	1857.4	1866.5	1886.3	1911.1	1925.1	1951.5
42.5°	2007.7	2017.6	2047.3	2060.5	2080.3	2110.1	2129.0	2156.3	2166.2	2200.0	2212.4
45°	2280.1	2310.7	2353.6	2381.7	2417.1	2449.3	2465.8	2478.2	2493.1	2519.5	2516.2
47.5°	2574.8	2614.4	2662.3	2720.1	2743.2	2781.2	2802.7	2826.6	2813.4	2806.7	2800.2
50°	2877.0	2923.2	2986.7	3038.8	3074.3	3097.4	3115.5	3112.2	3084.1	3069.3	3028.0
52.5°	3213.0	3240.2	3300.4	3345.1	3366.5	3371.4	3367.4	3342.6	3316.2	3269.1	3220.4
55°	3728.1	3715.6	3739.6	3760.3	3753.7	3776.8	3717.3	3694.2	3629.0	3567.9	3502.7
57.5°	4774.8	4791.3	4657.6	4597.3	4586.6	4608.1	4503.2	4490.1	4332.3	4312.5	4202.8
60°	6305.4	6386.2	6281.5	6222.8	6064.4	6012.3	5895.0	5846.3	5695.3	5573.2	5418.8
62.5°	7456.2	7529.6	7573.4	7489.9	7397.5	7261.3	7083.8	6887.4	6727.3	6539.8	6376.4
65°	7560.2	7708.7	7809.4	7848.3	7783.0	7633.7	7414.8	7167.3	6922.1	6686.7	6480.4
67.5°	7073.9	7206.8	7362.9	7502.4	7510.7	7413.3	7226.6	6974.8	6691.7	6401.1	6159.3
70°	6238.4	6405.3	6541.5	6688.4	6790.8	6734.6	6641.3	6410.2	6116.3	5890.2	5611.9
72.5°	5073.7	5143.8	5176.9	5321.3	5323.0	5220.6	5154.6	5026.6	4789.7	4629.5	4417.4
75°	2962.8	2808.4	2644.1	2501.3	2385.0	2336.3	2119.9	2083.6	1938.3	1848.4	1716.3
77.5°	1221.8	1083.9	906.4	758.7	612.5	546.5	450.8	408.6	354.2	330.3	314.5
80°	1047.6	917.2	783.4	655.4	541.6	427.7	332.6	258.3	203.1	172.5	160.1
82.5°	855.2	776.8	683.5	614.2	525.1	440.0	371.5	288.1	215.4	158.5	121.3
85°	308.7	253.5	203.9	187.4	149.4	123.0	103.2	88.3	72.6	57.8	51.2
87.5°	34.7	33.1	19.0	18.1	20.6	14.8	17.3	15.6	13.2	11.6	12.3
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6	787.6
2.5°	790.1	790.1	790.9	790.9	791.7	792.5	794.2	793.4	793.4	794.2	794.2
5°	812.3	814.8	814.0	814.0	814.0	814.8	815.6	812.3	809.0	805.7	804.0
7.5°	851.1	852.7	854.4	852.7	854.4	853.6	851.9	842.9	832.1	819.0	809.8
10°	901.5	901.5	903.1	902.3	905.6	903.1	898.1	877.5	854.4	826.3	805.7
12.5°	956.0	961.8	959.3	960.1	966.7	960.1	948.5	918.0	876.7	831.3	795.0
15°	1020.3	1022.8	1024.5	1022.0	1026.1	1020.3	999.7	951.0	890.8	827.2	773.5
17.5°	1073.2	1074.0	1074.8	1076.5	1082.3	1075.6	1040.2	974.1	894.1	808.2	737.2
20°	1114.5	1118.5	1121.9	1121.9	1130.2	1120.2	1073.2	985.7	883.3	776.8	691.0
22.5°	1157.4	1160.7	1164.8	1165.6	1176.4	1166.4	1100.4	983.2	855.2	732.2	637.3
25°	1210.3	1213.5	1216.8	1220.9	1235.9	1221.8	1127.7	973.3	816.5	679.4	579.5
27.5°	1271.3	1278.8	1281.2	1287.8	1305.2	1283.7	1150.8	958.4	773.5	618.3	518.4
30°	1353.1	1362.1	1365.4	1374.5	1398.4	1351.4	1164.0	932.8	719.1	556.4	453.3
32.5°	1462.8	1475.2	1485.1	1495.0	1522.3	1419.1	1165.6	895.6	655.4	487.0	390.5
35°	1606.4	1625.5	1632.8	1639.5	1665.1	1492.5	1158.2	840.4	577.8	416.1	340.9
37.5°	1767.5	1786.4	1791.4	1794.7	1799.7	1555.3	1140.0	756.2	490.4	354.2	301.3
40°	1965.6	1982.1	1988.7	1983.7	1957.3	1604.0	1099.6	657.9	405.3	312.0	276.6
42.5°	2207.5	2232.2	2234.7	2212.4	2124.9	1631.2	1018.7	542.4	338.4	281.6	257.5
45°	2507.2	2505.5	2491.4	2475.8	2307.4	1620.5	905.6	441.7	296.4	257.5	240.2
47.5°	2776.3	2748.2	2726.7	2680.5	2468.3	1557.7	759.5	365.7	270.8	239.4	225.4
50°	2996.7	2945.5	2900.1	2849.7	2588.0	1446.3	614.2	310.4	246.8	223.7	211.3
52.5°	3170.9	3108.9	3056.1	3006.5	2703.6	1322.5	503.5	269.9	223.7	208.1	195.6
55°	3443.3	3381.3	3297.1	3242.7	2880.2	1208.6	431.7	237.7	201.5	191.5	179.2
57.5°	4132.5	4078.1	3977.4	3836.2	3334.3	1165.6	391.3	213.0	183.3	177.5	167.6
60°	5336.2	5247.9	5116.6	4973.0	4257.2	1194.5	359.1	195.6	170.9	165.9	158.5
62.5°	6244.2	6089.1	5940.5	5807.6	4995.2	1193.7	317.0	182.5	161.8	159.3	151.9
65°	6281.5	6123.7	5974.3	5834.8	5011.8	1062.5	267.5	170.9	160.1	159.3	146.9
67.5°	5947.9	5777.0	5632.5	5456.7	4639.5	830.5	214.6	163.4	166.7	165.1	145.3
70°	5403.1	5180.2	5061.2	4888.0	4083.0	581.1	176.7	165.9	180.8	175.9	147.8
72.5°	4240.7	4072.3	3891.5	3771.0	3196.5	367.4	148.6	167.6	186.5	178.3	154.4
75°	1578.4	1623.8	1549.5	1523.1	1623.8	215.4	132.1	156.1	166.7	154.4	140.3
77.5°	318.7	304.7	288.9	285.6	369.0	133.0	121.3	135.3	128.0	113.1	113.9
80°	152.7	148.6	143.6	142.8	137.0	110.6	112.2	115.5	96.6	87.5	93.3
82.5°	101.6	95.8	94.1	90.8	92.4	99.1	106.5	99.1	74.3	69.3	84.2
85°	47.0	45.4	44.6	44.6	49.5	89.1	88.3	72.6	51.2	49.5	84.2
87.5°	11.6	11.6	12.3	11.6	13.2	26.4	23.1	22.3	19.0	21.5	39.6
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: P149885

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

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	787.6	787.6	787.6
2.5°	793.4	794.2	793.4
5°	800.7	800.7	800.7
7.5°	800.7	798.2	797.4
10°	789.2	781.8	781.8
12.5°	769.4	757.0	755.3
15°	732.2	715.8	713.3
17.5°	685.2	662.9	658.8
20°	632.3	604.2	599.4
22.5°	574.6	542.4	539.9
25°	517.6	484.6	477.9
27.5°	454.0	421.9	418.5
30°	390.5	362.4	360.7
32.5°	336.8	319.5	316.2
35°	298.9	288.9	284.8
37.5°	274.1	266.6	265.8
40°	255.1	248.5	247.7
42.5°	239.4	233.6	232.8
45°	223.7	218.8	217.1
47.5°	208.1	203.1	202.3
50°	194.0	187.4	186.5
52.5°	180.8	174.2	172.5
55°	168.4	161.8	161.8
57.5°	157.7	151.1	150.3
60°	147.8	141.1	140.3
62.5°	140.3	132.1	131.3
65°	134.6	126.3	124.7
67.5°	131.3	121.3	118.9
70°	137.0	118.9	114.7
72.5°	137.8	116.4	110.6
75°	133.0	109.8	105.7
77.5°	116.4	98.2	94.1
80°	100.7	76.0	70.2
82.5°	95.8	61.9	53.7
85°	74.3	40.4	37.9
87.5°	42.1	22.3	18.1
90°	0.0	0.0	0.0

(END OF REPORT)