

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: P152164

Luminaire Tested: **VXS-F03-LED-E1-SL4-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152164
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
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-SL4-7030
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6682.1 lumens
Efficiency: N/A
Efficacy: 85.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - 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



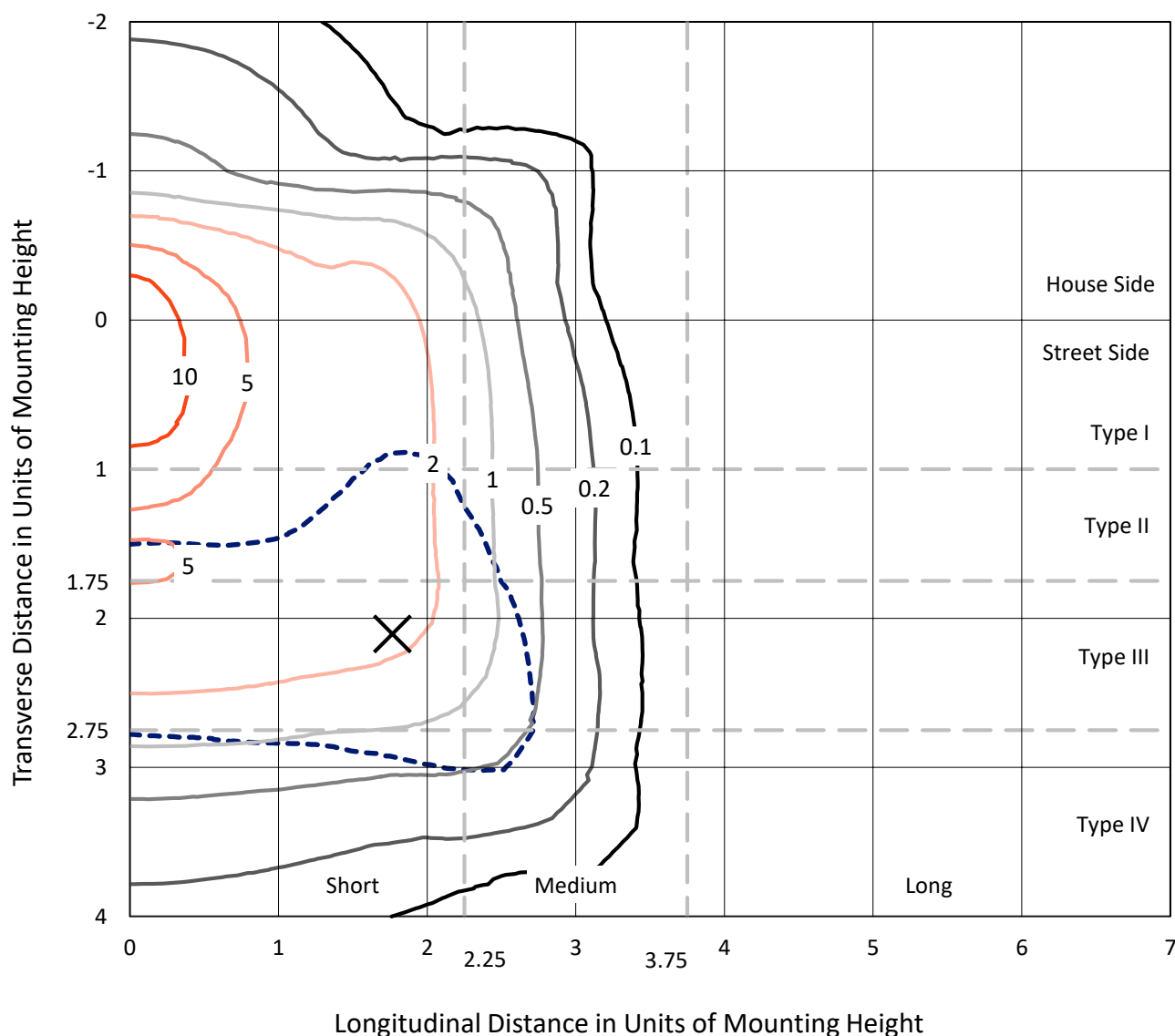
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

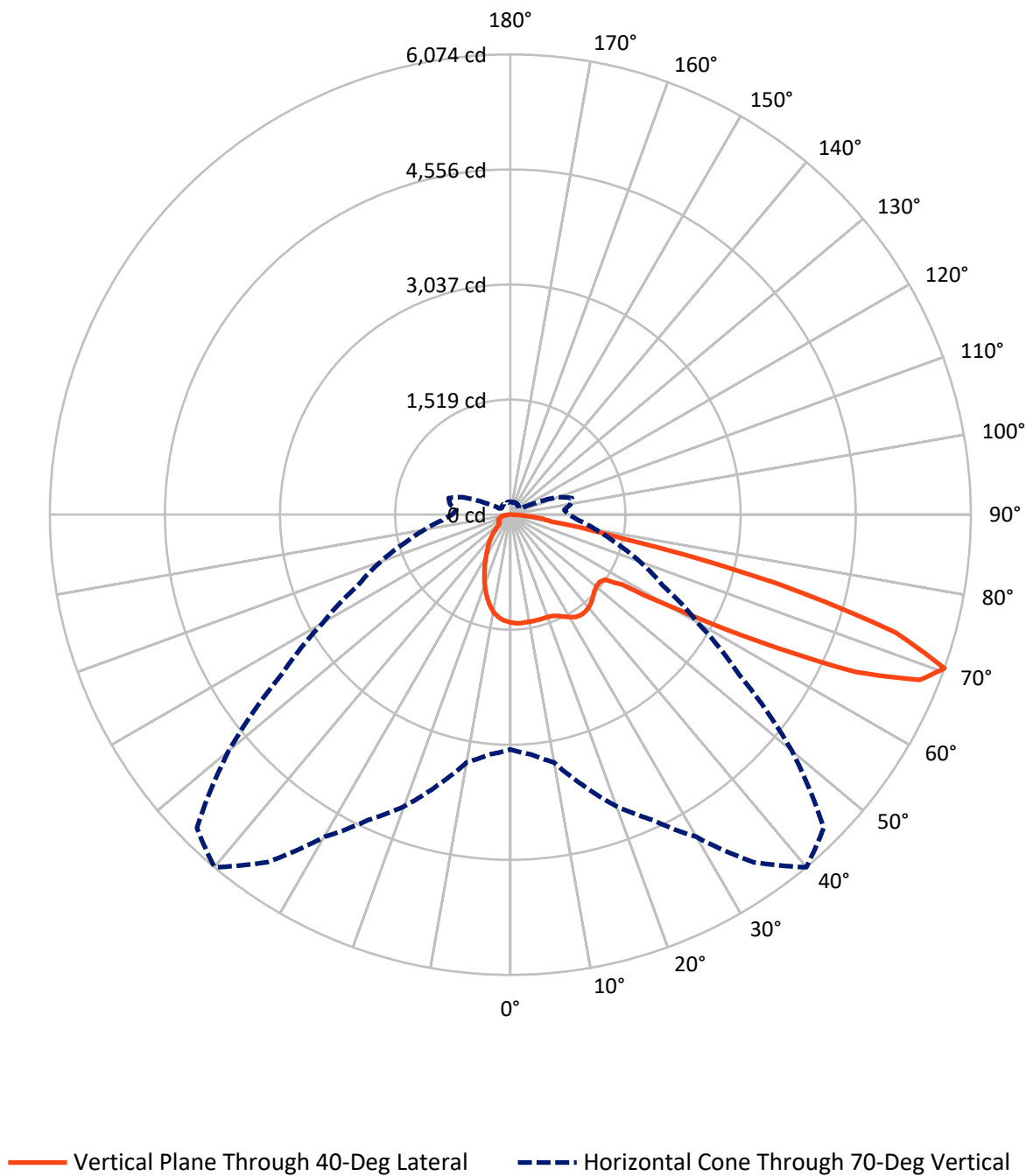


Based on 10 foot mounting height. Maximum calculated value = 14.3 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1387.1	0.0	1387.1
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5295.0	0.0	5295.0
	% Fixture	79.2	0.0	79.2
Total	Lumens	6682.1	0.0	6682.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	133.2	2.0
10°-20°	364.6	5.5
20°-30°	539.8	8.1
30°-40°	682.2	10.2
40°-50°	771.5	11.5
50°-60°	1097.9	16.4
60°-70°	2044.7	30.6
70°-80°	937.1	14.0
80°-90°	111.2	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°	6682.1	100.0
0°-180°	6682.1	100.0

Coefficient of Utilization



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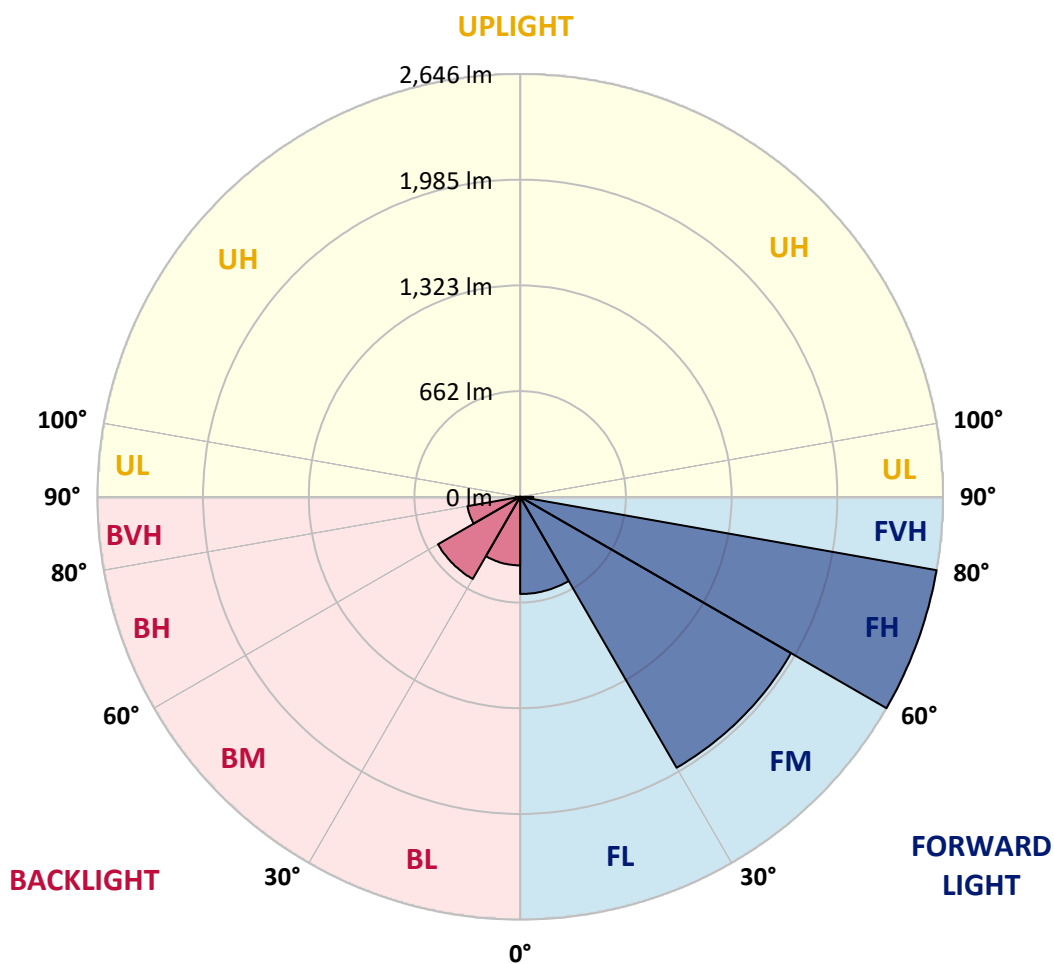
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	608.5	9.1			
FM	(30°-60°)	1957.6	29.3			
FH	(60°-80°)	2646.4	39.6			G2/5000
FVH	(80°-90°)	82.5	1.2			G1/100
BL	(0°-30°)	429.2	6.4	B1/500		
BM	(30°-60°)	593.9	8.9	B1/1000		
BH	(60°-80°)	335.3	5.0	B1/500		G1/500
BVH	(80°-90°)	28.7	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8
2.5°	1447.7	1451.4	1446.9	1446.1	1446.1	1445.4	1440.9	1440.1	1434.1	1434.8	1436.4
5°	1458.2	1459.7	1456.7	1456.0	1454.4	1451.4	1447.7	1443.1	1438.7	1434.1	1430.4
7.5°	1468.8	1467.3	1465.0	1465.0	1462.8	1458.2	1450.7	1444.7	1434.8	1429.5	1422.8
10°	1483.8	1481.6	1478.5	1477.1	1473.3	1466.5	1456.0	1447.7	1435.6	1425.1	1413.8
12.5°	1498.1	1497.4	1493.0	1490.7	1484.7	1477.8	1465.0	1452.2	1436.4	1419.8	1404.7
15°	1523.8	1520.8	1516.3	1511.7	1502.0	1493.0	1473.3	1458.2	1435.6	1413.8	1390.4
17.5°	1568.3	1563.0	1558.5	1548.7	1536.7	1520.8	1492.1	1466.5	1435.6	1403.9	1377.5
20°	1649.7	1638.4	1632.4	1619.6	1598.4	1569.8	1525.3	1483.8	1437.8	1397.1	1361.8
22.5°	1741.8	1734.2	1725.9	1717.6	1684.5	1642.9	1582.6	1520.8	1451.4	1394.1	1348.9
25°	1845.0	1835.2	1830.7	1816.4	1785.5	1737.9	1655.8	1569.8	1482.4	1406.2	1348.9
27.5°	1937.0	1934.0	1933.3	1916.7	1887.3	1831.4	1734.2	1630.9	1524.6	1431.1	1360.2
30°	2020.7	2017.7	2016.2	2007.2	1973.2	1906.8	1801.2	1685.2	1570.6	1465.8	1381.3
32.5°	2109.6	2099.9	2095.3	2078.0	2039.6	1961.9	1841.2	1720.6	1606.7	1499.7	1404.7
35°	2182.1	2173.8	2164.8	2139.8	2085.6	1993.6	1858.5	1732.6	1621.0	1518.5	1416.8
37.5°	2234.8	2226.5	2213.7	2182.1	2114.9	2004.1	1857.8	1728.9	1615.9	1515.5	1419.1
40°	2258.2	2249.9	2236.4	2196.4	2120.2	1998.0	1843.5	1711.6	1600.0	1499.7	1409.9
42.5°	2249.1	2243.1	2225.8	2187.4	2103.6	1971.0	1814.8	1679.2	1569.8	1474.1	1389.6
45°	2214.5	2209.9	2193.4	2152.6	2065.9	1927.3	1772.6	1638.4	1533.6	1442.4	1362.5
47.5°	2162.5	2160.9	2144.4	2104.4	2018.4	1883.5	1728.9	1598.4	1497.4	1411.5	1339.9
50°	2105.2	2097.6	2089.3	2052.3	1974.0	1845.8	1697.2	1573.6	1477.1	1400.2	1330.1
52.5°	2068.9	2066.7	2059.2	2026.0	1950.6	1823.9	1682.9	1564.6	1475.5	1397.9	1324.8
55°	2390.2	2395.4	2326.1	2182.1	2055.3	1884.2	1725.9	1610.6	1512.5	1434.1	1380.5
57.5°	3535.4	3512.1	3393.0	3107.3	2784.5	2358.4	2051.6	1865.4	1743.9	1757.5	1784.7
60°	4119.1	4114.5	4092.6	3981.9	3766.9	3442.7	3083.1	2670.7	2539.5	2553.8	2564.4
62.5°	4379.9	4386.7	4403.3	4361.9	4305.3	4211.1	4031.6	3865.7	3690.1	3624.5	3448.8
65°	4500.6	4512.6	4550.4	4573.7	4595.5	4612.2	4683.0	4877.6	5005.8	4766.0	4208.1
67.5°	4251.0	4309.1	4433.5	4554.9	4663.4	4818.0	5057.8	5509.4	5823.8	5529.0	4720.0
70°	3099.0	3178.0	3320.6	3696.1	4097.2	4447.8	4912.2	5599.9	6074.2	5846.4	4846.6
72.5°	1943.0	1964.9	2028.3	2166.2	2464.0	2914.2	3726.2	4757.7	5305.1	5123.4	4096.5
75°	1232.7	1240.3	1238.0	1269.7	1320.2	1418.2	1739.5	2810.2	3634.2	3350.8	2283.1
77.5°	734.4	745.7	750.3	760.0	784.1	818.9	845.2	956.1	1523.8	1479.4	828.6
80°	615.2	624.4	616.8	614.5	599.4	588.9	601.7	588.9	546.6	526.3	484.8
82.5°	325.7	325.0	322.7	344.6	389.0	423.7	450.2	444.1	401.9	342.3	290.3
85°	178.7	184.8	184.8	192.2	185.5	186.2	192.2	202.8	187.8	156.8	128.2
87.5°	15.1	23.4	18.9	23.4	31.7	22.6	21.9	21.9	18.9	13.6	12.0
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8
2.5°	1432.5	1431.1	1428.1	1425.8	1425.8	1422.1	1419.8	1418.2	1417.5	1414.5	1414.5
5°	1428.1	1422.8	1417.5	1413.8	1411.5	1407.7	1401.7	1398.7	1394.9	1391.9	1390.4
7.5°	1418.2	1408.5	1400.2	1394.1	1386.6	1380.5	1373.1	1366.2	1359.5	1356.5	1354.9
10°	1403.2	1390.4	1377.5	1366.2	1355.6	1345.1	1335.3	1325.5	1317.2	1311.2	1305.2
12.5°	1388.8	1369.2	1352.6	1336.1	1319.5	1306.6	1293.1	1278.8	1266.7	1255.4	1252.3
15°	1369.2	1346.6	1325.5	1305.2	1284.8	1263.7	1247.2	1231.3	1211.7	1198.9	1189.0
17.5°	1351.2	1324.0	1298.3	1274.3	1249.3	1227.5	1202.6	1181.6	1161.9	1142.3	1128.0
20°	1331.5	1302.2	1275.0	1247.9	1220.7	1192.8	1164.1	1137.0	1112.8	1089.5	1066.1
22.5°	1314.2	1284.0	1257.6	1228.3	1198.1	1166.4	1133.3	1099.3	1071.4	1041.2	1014.1
25°	1303.6	1270.5	1243.3	1214.7	1181.6	1146.8	1109.1	1069.1	1035.2	1000.5	968.1
27.5°	1303.6	1260.7	1232.7	1204.1	1170.2	1133.3	1091.8	1048.1	1009.6	971.2	931.2
30°	1314.9	1262.2	1224.5	1194.3	1159.7	1119.7	1073.7	1027.7	985.5	940.2	901.8
32.5°	1325.5	1265.2	1218.4	1180.0	1140.0	1100.8	1054.1	1005.1	958.3	915.3	874.6
35°	1332.3	1265.2	1207.2	1158.1	1112.8	1074.4	1028.5	979.5	931.9	889.7	852.0
37.5°	1333.1	1259.2	1189.0	1133.3	1085.7	1045.8	1002.1	956.1	910.8	871.6	840.0
40°	1325.5	1247.2	1171.0	1106.8	1057.1	1016.4	976.4	934.9	894.2	861.9	834.7
42.5°	1311.9	1234.3	1153.6	1085.7	1033.7	991.5	954.5	919.1	883.7	855.8	833.2
45°	1291.6	1217.0	1137.8	1073.0	1021.7	977.2	940.9	911.6	881.5	858.0	835.4
47.5°	1273.5	1210.9	1143.0	1081.2	1027.7	981.7	944.8	919.9	896.5	880.6	849.7
50°	1269.7	1207.9	1145.3	1088.0	1033.7	986.9	954.5	941.8	934.9	925.2	877.6
52.5°	1259.2	1207.2	1161.9	1130.3	1095.5	1073.7	1039.8	1051.8	1044.2	1009.6	923.6
55°	1370.1	1385.1	1427.4	1487.7	1543.4	1556.3	1552.4	1538.1	1462.0	1257.6	1034.5
57.5°	1883.5	1968.7	2048.6	2084.0	2079.5	2039.6	2010.9	1952.8	1842.8	1594.0	1253.2
60°	2596.8	2610.4	2568.1	2505.5	2400.0	2311.7	2217.5	2108.9	1949.1	1705.5	1387.4
62.5°	3253.5	3071.0	2883.3	2706.8	2546.2	2406.0	2274.8	2123.2	1915.1	1661.0	1370.1
65°	3717.2	3331.2	3034.8	2781.5	2554.5	2358.4	2194.9	1998.0	1763.6	1534.4	1269.7
67.5°	3956.2	3364.4	2909.6	2556.8	2234.8	1963.4	1745.5	1554.0	1379.8	1279.5	1111.4
70°	3689.3	2855.3	2222.0	1823.1	1437.8	1152.8	910.8	764.6	714.0	809.0	841.5
72.5°	2749.0	1858.5	1321.8	1022.4	783.4	624.4	478.8	376.3	306.1	321.2	417.0
75°	1299.9	802.3	567.0	431.3	343.1	284.2	232.2	212.6	177.9	147.8	138.8
77.5°	505.9	368.7	304.7	223.2	158.3	127.5	108.6	104.8	107.0	104.0	102.6
80°	385.3	260.9	163.6	119.9	103.3	91.2	80.7	77.6	79.2	82.9	86.7
82.5°	214.9	134.2	99.5	86.7	77.6	66.3	60.3	55.8	56.6	61.0	69.3
85°	82.9	64.9	59.6	57.3	53.6	43.0	37.0	37.7	43.0	51.3	51.3
87.5°	9.0	9.0	12.0	9.0	9.0	9.0	8.3	9.8	10.6	13.6	15.9
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°	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8	1425.8
2.5°	1413.0	1413.0	1413.0	1411.5	1412.2	1409.2	1409.2	1406.9	1410.7	1408.5	1407.7
5°	1391.1	1390.4	1387.4	1387.4	1387.4	1387.4	1389.6	1383.6	1388.1	1388.1	1385.8
7.5°	1354.2	1354.2	1345.9	1350.4	1348.9	1351.2	1354.2	1351.2	1355.6	1358.7	1356.5
10°	1302.9	1302.9	1296.2	1301.3	1299.2	1304.5	1309.6	1306.6	1309.6	1314.2	1315.8
12.5°	1246.3	1243.3	1237.3	1239.6	1239.6	1242.6	1244.9	1248.6	1252.3	1258.4	1261.5
15°	1180.7	1176.3	1168.7	1168.7	1164.1	1165.7	1170.2	1171.7	1179.3	1187.6	1197.3
17.5°	1113.7	1102.4	1094.1	1084.2	1076.7	1082.7	1088.0	1091.8	1097.8	1110.7	1117.4
20°	1050.4	1027.7	1011.8	999.1	990.8	994.5	1001.3	1005.8	1011.1	1014.1	1016.4
22.5°	987.8	962.1	940.2	924.4	910.8	914.6	911.6	909.3	913.1	903.3	902.5
25°	933.5	903.3	873.9	855.0	838.4	833.2	817.3	813.6	803.0	794.7	788.7
27.5°	894.2	855.0	822.6	800.7	774.3	754.7	734.4	714.0	702.7	689.1	682.4
30°	863.3	821.9	783.4	746.4	711.8	681.7	654.5	628.1	609.9	590.4	577.5
32.5°	834.7	796.2	749.4	699.0	652.2	618.2	582.8	552.6	524.0	498.3	479.6
35°	815.0	772.1	712.5	650.7	597.9	557.9	520.2	477.3	442.6	409.4	389.0
37.5°	804.6	751.7	678.5	609.9	551.2	505.9	459.2	409.4	367.2	336.3	305.4
40°	796.2	731.4	648.4	573.8	511.9	457.7	403.4	344.6	297.8	265.4	241.2
42.5°	787.2	708.7	622.1	545.2	476.5	413.2	347.6	285.0	240.5	217.9	207.4
45°	777.4	689.1	597.2	518.0	441.9	365.0	289.5	231.5	205.1	197.5	197.5
47.5°	775.1	676.4	579.1	491.6	402.6	309.1	236.0	199.8	192.2	193.8	196.8
50°	784.1	672.5	563.2	460.7	350.6	250.4	199.8	187.8	189.2	193.8	198.3
52.5°	806.0	675.5	546.6	417.7	288.8	206.6	184.8	183.9	188.5	195.2	199.8
55°	843.0	675.5	515.0	353.6	230.7	185.5	179.5	182.5	188.5	194.5	198.3
57.5°	922.2	668.8	459.2	282.8	193.1	177.9	177.9	181.8	186.9	193.1	196.1
60°	1016.4	659.8	380.7	218.7	174.2	171.9	177.2	181.8	186.2	191.5	194.5
62.5°	1022.4	636.4	301.6	180.9	164.4	168.2	176.5	182.5	183.9	187.8	191.5
65°	939.5	554.9	239.8	162.1	159.9	165.9	174.2	178.7	179.5	180.9	184.8
67.5°	822.6	452.4	193.8	153.1	155.3	162.1	166.6	170.4	172.6	176.5	177.2
70°	675.5	363.4	165.9	144.0	146.3	153.8	157.6	161.3	165.9	170.4	168.2
72.5°	478.8	282.8	145.5	134.2	137.2	144.0	148.5	151.5	155.3	159.9	156.8
75°	203.6	197.5	125.9	121.3	125.9	130.5	134.9	139.5	143.2	145.5	145.5
77.5°	104.0	116.2	108.6	108.6	111.6	116.2	119.9	124.5	126.6	128.9	131.9
80°	88.2	89.7	91.2	94.3	97.3	101.8	105.6	109.3	110.1	110.9	112.3
82.5°	73.2	76.2	77.6	82.2	84.5	85.9	88.2	88.2	89.7	89.7	87.5
85°	52.7	56.6	58.9	59.6	58.9	59.6	60.3	61.9	65.6	65.6	62.6
87.5°	15.1	14.3	18.1	18.9	20.3	23.4	26.4	31.7	33.2	34.7	34.7
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: P152164

CATALOG NUMBER: VXS-F03-LED-E1-SL4-7030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1425.8	1425.8	1425.8	1425.8
2.5°	1406.9	1408.5	1405.5	1406.2
5°	1385.8	1388.8	1385.1	1389.6
7.5°	1358.7	1363.2	1362.5	1361.8
10°	1319.5	1325.5	1325.5	1327.8
12.5°	1269.7	1273.5	1276.5	1278.0
15°	1202.6	1209.4	1213.2	1213.2
17.5°	1122.0	1126.4	1128.7	1125.7
20°	1019.4	1017.9	1018.7	1011.1
22.5°	901.0	903.3	896.5	898.0
25°	784.9	781.1	784.1	779.6
27.5°	672.5	673.4	665.0	668.8
30°	565.5	561.8	551.2	556.5
32.5°	462.2	452.4	441.0	434.3
35°	365.0	349.8	344.6	342.3
37.5°	286.5	269.9	264.7	258.7
40°	227.7	221.7	219.4	220.9
42.5°	204.4	204.4	205.8	206.6
45°	198.3	200.5	202.8	203.6
47.5°	199.1	201.3	204.4	205.1
50°	200.5	202.8	205.1	205.8
52.5°	201.3	201.3	202.8	203.6
55°	199.8	199.1	199.8	200.5
57.5°	196.8	195.2	196.1	198.3
60°	195.2	193.1	194.5	196.1
62.5°	191.5	190.8	192.2	193.1
65°	183.2	183.9	186.2	186.2
67.5°	175.6	176.5	177.2	177.9
70°	166.6	167.4	168.9	169.6
72.5°	156.1	159.1	161.3	164.4
75°	147.8	150.8	155.3	158.3
77.5°	133.5	135.8	141.0	144.8
80°	113.1	112.3	113.1	115.3
82.5°	86.7	86.7	85.9	85.2
85°	61.0	60.3	58.0	58.0
87.5°	33.2	32.4	31.7	30.2
90°	0.0	0.0	0.0	0.0

(END OF REPORT)