

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: P156465

Luminaire Tested: **VXS-F02-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P156465
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33673)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-F02-LED-E1-T4
Description: VISION SITE SMALL LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (14) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4989.5 lumens
Efficiency: N/A
Efficacy: 90.7 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G2

Input Watts (W): 55
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



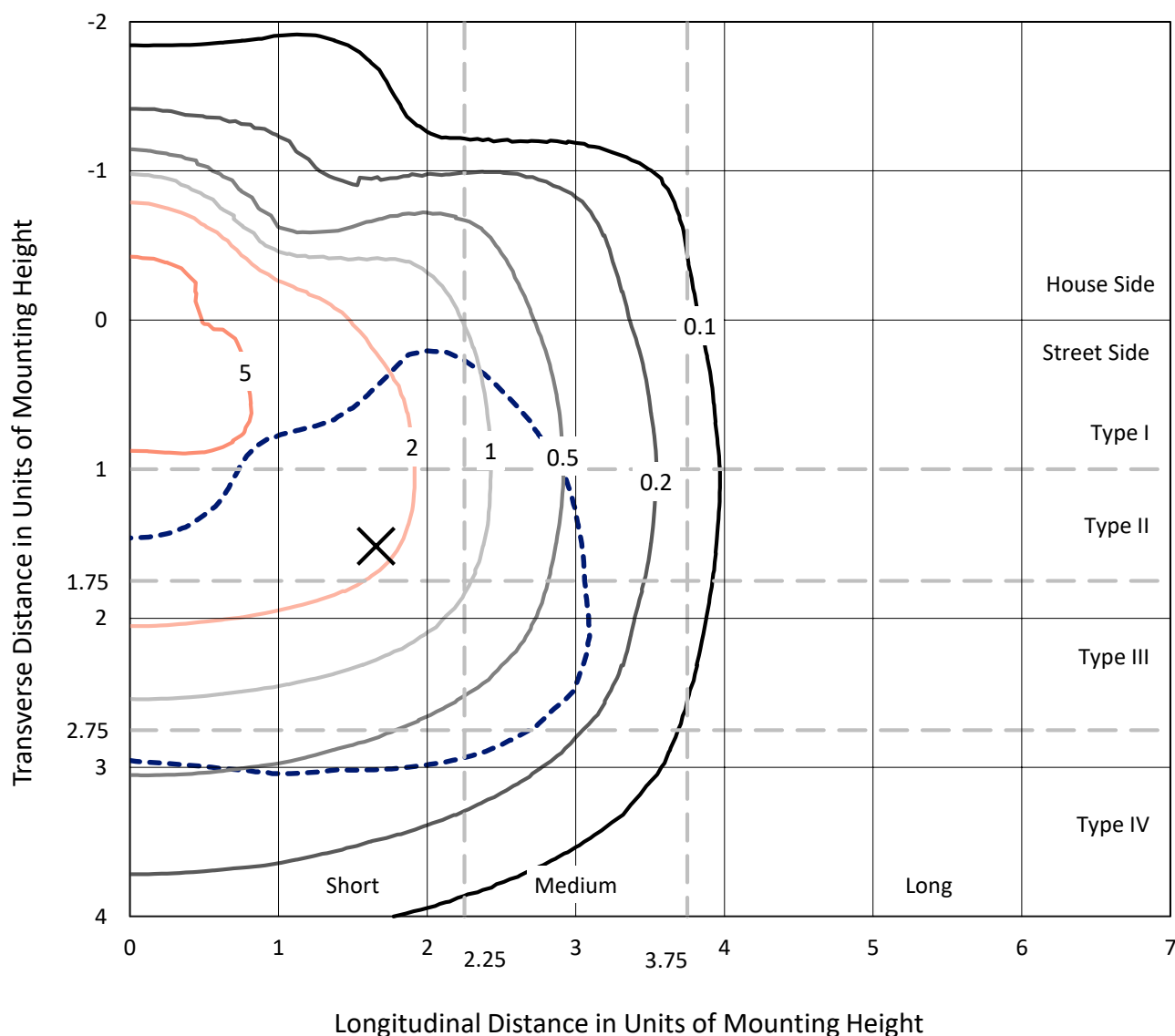
REPORT NUMBER: P156465

CATALOG NUMBER: VXS-F02-LED-E1-T4

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

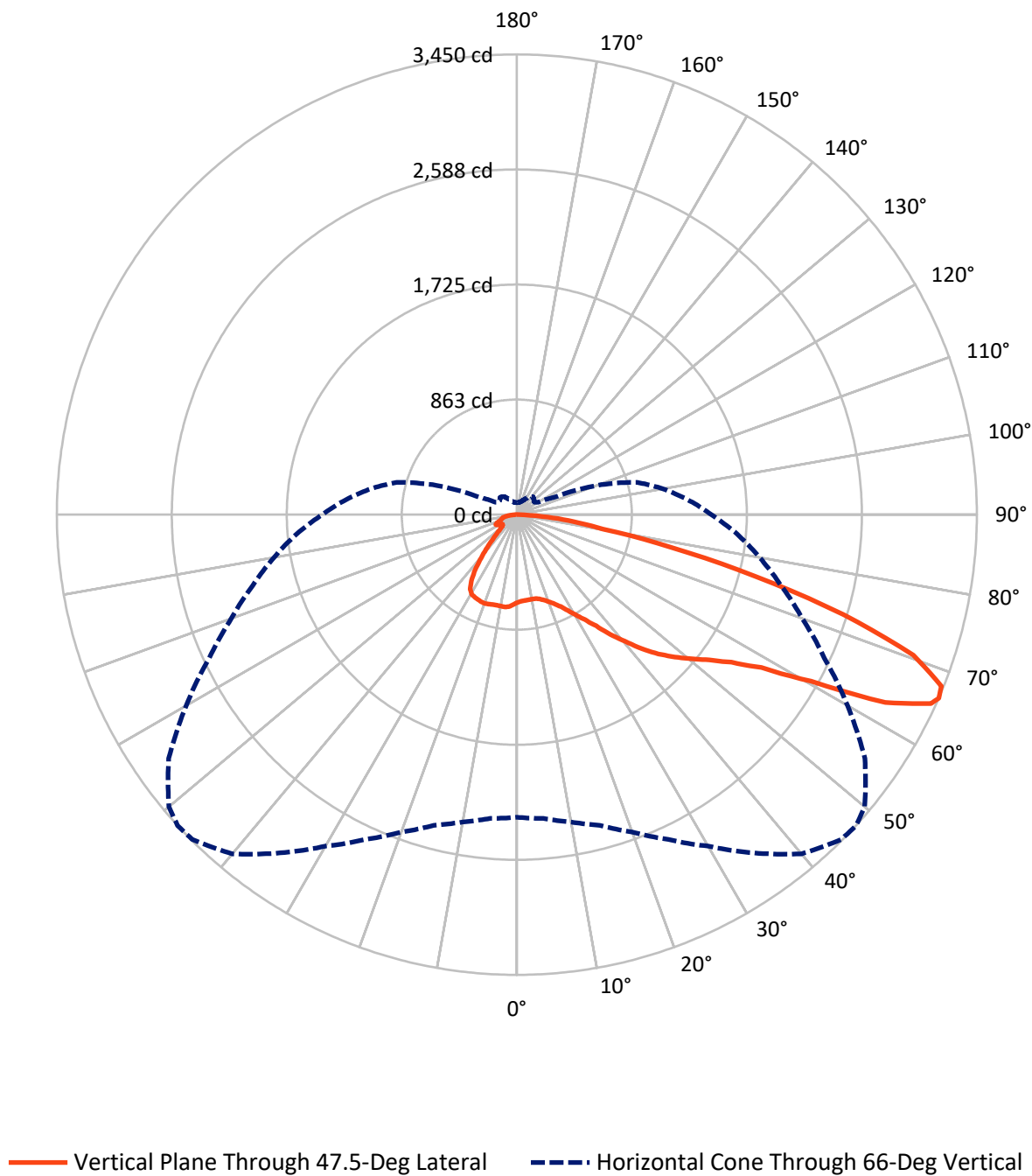


Based on 10 foot mounting height. Maximum calculated value = 6.9 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P156465

CATALOG NUMBER: VXS-F02-LED-E1-T4

Luminous Intensity Polar Plot



REPORT NUMBER: P156465

CATALOG NUMBER: VXS-F02-LED-E1-T4

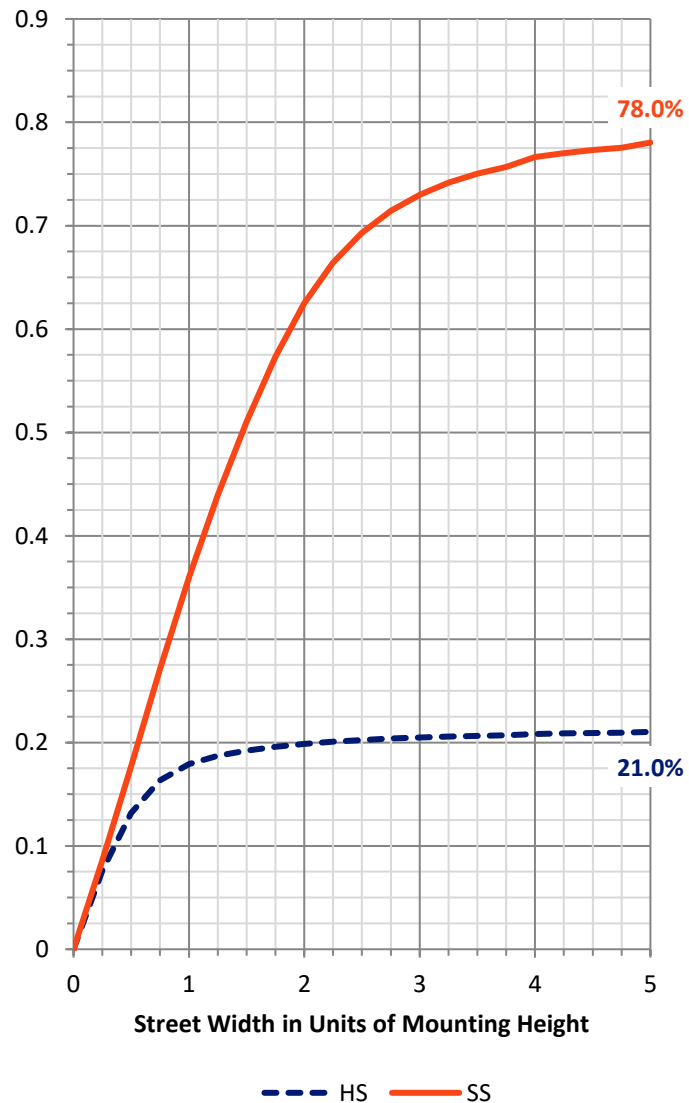
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1064.7	0.0	1064.7
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	3924.9	0.0	3924.9
	% Fixture	78.7	0.0	78.7
Total	Lumens	4989.5	0.0	4989.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	63.9	1.3
10°-20°	193.9	3.9
20°-30°	334.0	6.7
30°-40°	505.3	10.1
40°-50°	654.9	13.1
50°-60°	902.9	18.1
60°-70°	1402.9	28.1
70°-80°	815.8	16.3
80°-90°	116.0	2.3
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°	4989.5	100.0
0°-180°	4989.5	100.0

Coefficient of Utilization



REPORT NUMBER: P156465

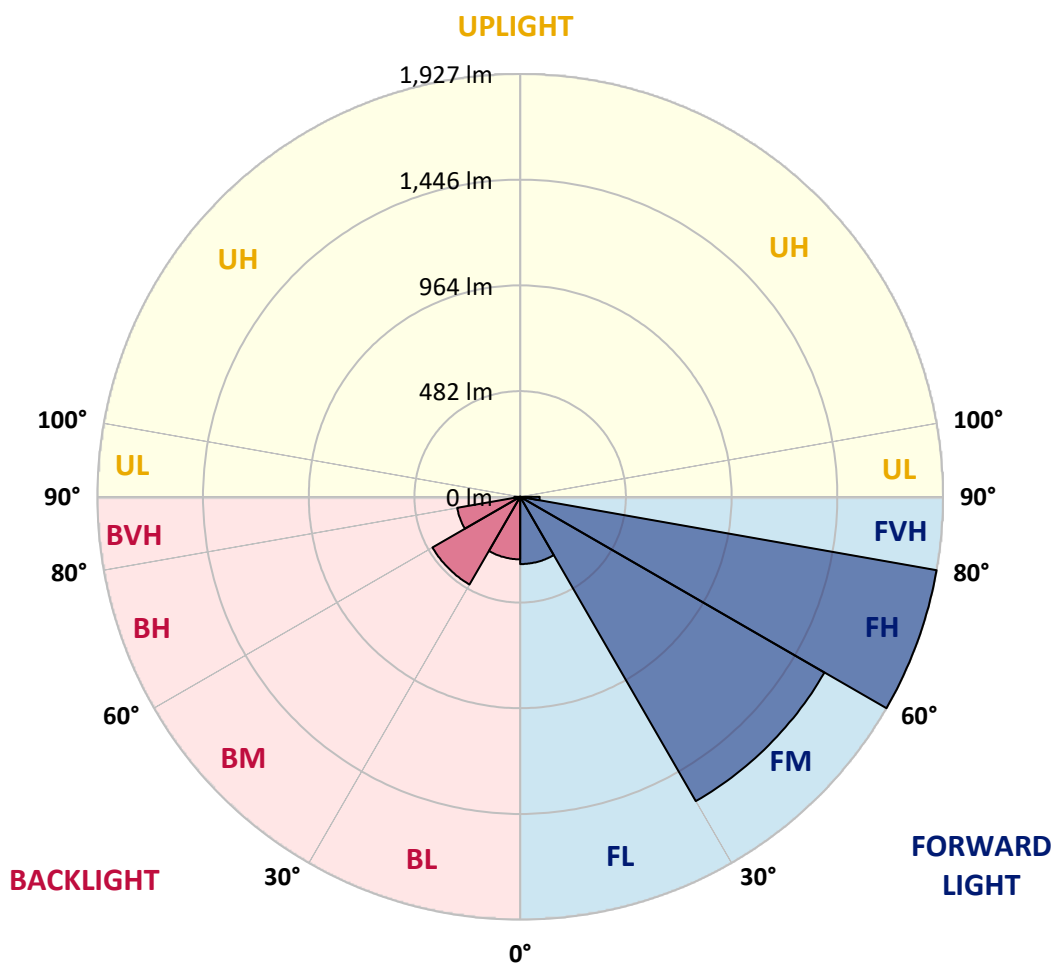
CATALOG NUMBER: VXS-F02-LED-E1-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	306.8	6.1			
FM	(30°-60°)	1601.6	32.1			
FH	(60°-80°)	1927.5	38.6			G2/5000
FVH	(80°-90°)	89.0	1.8			G1/100
BL	(0°-30°)	285.0	5.7	B1/500		
BM	(30°-60°)	461.5	9.2	B1/1000		
BH	(60°-80°)	291.2	5.8	B1/500		G1/500
BVH	(80°-90°)	27.0	0.5			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



REPORT NUMBER: P156465

CATALOG NUMBER: VXS-F02-LED-E1-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6
2.5°	645.6	647.8	646.1	646.6	646.6	647.3	647.3	647.8	647.3	648.9	649.9
5°	634.0	635.1	634.5	635.6	636.8	639.0	638.4	641.1	641.7	643.3	646.1
7.5°	629.6	628.5	629.0	630.7	631.8	633.0	634.0	636.2	637.8	641.7	643.9
10°	634.0	633.5	634.0	635.1	635.1	635.6	634.5	636.8	637.8	641.1	643.3
12.5°	652.1	652.1	651.1	651.1	649.9	648.9	646.1	644.5	643.9	644.5	645.6
15°	681.3	680.2	678.0	676.4	674.2	670.4	666.4	663.2	660.9	657.6	656.6
17.5°	709.9	708.3	706.1	703.9	701.1	697.3	691.2	687.4	681.3	677.5	675.2
20°	743.0	739.7	736.9	734.2	728.7	727.6	721.6	714.9	707.8	699.0	697.8
22.5°	785.9	780.4	777.1	775.4	769.9	768.3	758.3	749.0	740.2	728.7	725.9
25°	829.3	823.8	822.2	820.0	816.2	814.0	804.7	794.2	782.6	766.6	763.3
27.5°	871.7	872.3	867.9	869.5	868.5	864.6	855.2	844.8	836.0	817.3	813.4
30°	924.6	921.2	919.1	922.4	918.5	919.1	910.9	905.3	891.0	880.0	872.3
32.5°	979.6	979.1	982.4	984.6	984.0	982.9	976.3	970.8	958.1	942.2	938.9
35°	1055.0	1058.3	1061.0	1071.0	1071.0	1078.1	1071.5	1065.0	1050.1	1030.8	1024.2
37.5°	1106.2	1107.3	1118.3	1131.5	1148.0	1163.4	1167.9	1169.5	1163.4	1149.1	1139.3
40°	1153.0	1155.2	1172.7	1193.2	1217.4	1247.7	1265.8	1274.1	1275.8	1269.1	1247.7
42.5°	1199.8	1203.1	1221.2	1251.0	1284.6	1323.0	1354.9	1375.3	1386.8	1386.8	1374.2
45°	1254.2	1258.7	1278.4	1311.0	1350.1	1398.4	1442.5	1481.6	1500.2	1501.3	1489.2
47.5°	1318.7	1322.5	1345.6	1378.7	1418.8	1467.8	1523.4	1568.0	1602.6	1604.9	1594.9
50°	1401.8	1407.3	1426.5	1456.3	1497.5	1547.0	1602.6	1664.8	1701.1	1709.9	1699.5
52.5°	1511.8	1513.0	1528.9	1556.4	1596.6	1643.9	1702.8	1770.5	1818.3	1825.5	1808.5
55°	1663.7	1662.1	1672.5	1702.3	1732.5	1769.3	1830.5	1906.4	1959.8	1970.8	1953.2
57.5°	1870.1	1868.4	1877.2	1884.4	1941.0	1976.9	2036.9	2109.5	2161.2	2193.2	2162.9
60°	2189.8	2188.2	2202.5	2244.4	2286.7	2339.0	2397.3	2484.2	2556.9	2566.3	2536.6
62.5°	2421.6	2429.8	2461.1	2510.2	2596.0	2698.3	2805.2	2919.6	3068.7	3116.1	3101.8
65°	2340.6	2357.1	2400.6	2474.9	2589.4	2730.9	2898.1	3105.6	3305.4	3417.1	3413.8
66°	2268.0	2286.1	2339.6	2411.1	2532.1	2686.8	2869.5	3095.8	3319.2	3442.5	3450.2
67.5°	2136.0	2156.3	2208.6	2293.3	2411.1	2575.6	2772.1	3018.1	3270.8	3414.4	3434.7
70°	1878.9	1902.0	1940.0	2009.8	2126.0	2273.0	2479.9	2700.0	2964.8	3129.3	3154.1
72.5°	1570.7	1591.1	1633.5	1690.7	1785.9	1878.3	2040.7	2203.0	2392.3	2580.0	2561.9
75°	1127.7	1136.5	1161.8	1223.9	1275.1	1358.2	1488.7	1621.9	1751.2	1837.1	1849.2
77.5°	586.1	609.2	645.0	713.8	769.4	844.2	929.0	1029.1	1123.8	1202.5	1181.0
80°	383.6	393.5	425.4	460.6	501.3	549.2	605.9	643.3	655.4	650.5	655.4
82.5°	221.2	239.4	281.8	308.7	339.1	355.5	400.6	443.6	467.8	437.5	426.5
85°	28.1	36.4	114.5	144.1	165.1	189.8	203.6	229.5	214.1	191.5	233.4
87.5°	6.0	5.5	7.7	16.5	17.1	14.3	26.9	28.6	17.6	8.8	11.0
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: P156465

CATALOG NUMBER: VXS-F02-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6
2.5°	651.1	651.6	652.7	654.4	655.4	656.6	657.6	659.3	660.4	661.6	663.7
5°	648.3	650.5	652.7	654.9	657.6	662.1	664.9	667.0	669.2	673.7	675.2
7.5°	646.6	650.5	653.8	657.6	662.1	665.9	670.9	673.7	676.9	679.7	683.0
10°	645.6	651.1	654.4	659.9	664.9	668.7	674.2	677.5	681.3	684.7	686.3
12.5°	647.8	650.5	653.8	659.3	665.4	670.9	676.9	679.7	683.0	685.7	686.3
15°	657.1	657.1	657.6	662.1	668.1	672.5	677.5	680.2	681.9	683.5	683.5
17.5°	674.2	670.4	667.6	668.1	672.0	674.7	677.5	677.5	676.4	675.9	674.7
20°	694.0	689.0	683.5	679.7	678.5	676.4	674.7	669.2	664.9	660.9	658.2
22.5°	722.6	714.9	707.2	700.0	693.5	685.2	675.9	664.9	654.4	647.3	642.8
25°	757.8	751.8	742.4	731.4	723.1	707.8	695.6	679.7	666.4	657.1	649.4
27.5°	807.9	800.7	791.9	782.1	769.9	752.8	738.0	719.3	703.3	689.6	679.7
30°	870.1	860.7	854.1	842.1	833.8	814.5	799.7	776.6	745.7	723.7	709.9
32.5°	934.0	923.5	918.0	908.6	899.3	887.7	865.2	829.3	789.7	754.0	730.4
35°	1019.3	1008.3	998.3	990.1	976.3	954.8	935.0	892.1	837.6	787.6	747.9
37.5°	1126.5	1108.4	1083.6	1062.7	1038.5	1007.7	977.4	933.4	871.2	806.2	753.5
40°	1241.0	1209.1	1173.9	1134.8	1093.0	1048.4	1013.8	969.1	899.3	822.2	749.5
42.5°	1360.4	1309.8	1260.8	1205.8	1147.5	1094.6	1049.5	1000.5	920.2	826.6	734.2
45°	1478.8	1422.1	1347.8	1275.8	1202.0	1136.5	1085.8	1030.8	939.5	828.3	713.8
47.5°	1576.8	1518.4	1433.7	1343.4	1255.9	1181.6	1122.2	1062.7	965.3	839.8	708.8
50°	1680.2	1609.2	1515.1	1408.4	1309.3	1226.2	1162.9	1101.2	1001.7	869.5	724.8
52.5°	1793.1	1711.6	1601.6	1482.1	1373.7	1280.6	1211.9	1148.6	1047.9	911.4	755.1
55°	1930.7	1831.0	1711.6	1576.8	1460.6	1357.7	1281.8	1206.9	1102.9	960.9	793.1
57.5°	2140.8	2018.7	1884.4	1730.9	1602.1	1480.4	1389.6	1303.2	1188.2	1034.6	844.8
60°	2521.1	2390.7	2216.3	2030.3	1878.9	1736.9	1603.7	1496.4	1354.9	1180.0	959.3
62.5°	3066.0	2892.6	2659.8	2399.5	2201.5	1996.7	1846.4	1686.8	1511.3	1322.5	1094.1
65°	3368.7	3158.4	2846.9	2544.8	2290.1	2067.7	1876.7	1691.8	1497.0	1316.5	1125.5
66°	3406.1	3187.0	2863.4	2545.4	2277.9	2049.5	1848.6	1657.1	1457.9	1285.6	1112.2
67.5°	3390.7	3166.7	2833.2	2497.5	2225.6	1980.2	1772.6	1574.0	1375.3	1214.6	1068.2
70°	3138.1	2925.7	2598.2	2273.0	2014.8	1772.6	1574.5	1379.2	1197.0	1059.4	951.6
72.5°	2605.9	2424.2	2139.8	1884.4	1681.9	1482.1	1314.2	1127.7	973.6	871.7	807.9
75°	1881.1	1771.0	1511.8	1365.4	1187.7	1055.0	892.1	781.5	670.9	621.3	610.4
77.5°	1188.2	1040.2	875.6	720.9	592.7	491.5	382.5	324.7	270.8	265.3	320.3
80°	601.6	541.6	417.2	332.4	279.6	226.2	178.9	135.3	94.6	113.9	136.5
82.5°	394.1	328.6	257.5	211.9	184.4	153.0	118.9	82.6	60.5	68.3	93.6
85°	213.0	181.7	146.4	115.5	93.6	83.6	56.2	39.6	39.1	41.9	53.4
87.5°	15.4	15.4	12.1	11.0	13.2	11.0	9.9	9.9	9.3	9.9	13.2
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: P156465

CATALOG NUMBER: VXS-F02-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6	657.6
2.5°	664.9	666.4	667.0	669.7	671.4	672.5	673.7	673.7	674.2	675.9	676.4
5°	677.5	680.2	683.5	685.7	686.8	690.2	691.2	691.2	692.3	694.5	696.2
7.5°	685.2	689.0	692.3	693.5	695.6	696.8	698.4	699.5	699.5	701.7	702.8
10°	688.0	690.2	693.5	693.5	695.6	695.6	697.3	697.8	697.8	700.0	701.7
12.5°	688.0	689.0	691.8	691.8	693.5	694.0	696.2	697.8	698.4	701.1	703.3
15°	684.7	685.7	688.0	688.5	692.3	694.5	699.5	702.8	702.8	705.6	706.6
17.5°	675.2	678.0	682.4	686.8	694.0	699.0	705.0	707.8	705.6	703.9	702.3
20°	659.9	664.9	675.2	686.3	699.0	705.6	708.8	706.1	698.4	690.7	685.7
22.5°	644.5	654.4	672.0	688.5	702.8	707.2	705.6	695.6	683.0	673.7	667.0
25°	651.6	663.2	680.2	695.1	704.5	703.3	696.8	683.0	669.2	657.1	646.1
27.5°	681.3	694.0	703.3	708.3	707.2	699.5	689.0	673.7	657.1	641.1	625.7
30°	709.4	716.0	718.2	714.4	705.6	692.8	679.7	662.1	640.1	620.2	602.6
32.5°	722.1	715.4	705.0	694.5	680.2	669.2	651.1	631.8	604.2	580.6	563.0
35°	722.1	695.6	669.2	647.3	625.7	612.0	591.1	565.2	539.9	520.1	506.3
37.5°	706.1	655.4	612.0	576.2	549.2	534.4	503.0	479.9	458.4	451.8	443.0
40°	676.9	602.1	539.4	492.5	458.4	436.5	405.1	389.1	380.8	377.5	375.9
42.5°	637.8	542.7	459.0	401.2	364.4	339.6	318.7	308.7	308.2	307.7	307.7
45°	596.1	478.8	380.8	312.0	279.6	257.5	247.7	243.8	247.2	246.5	247.2
47.5°	570.2	430.4	309.3	236.1	211.3	197.0	192.0	193.7	196.5	195.3	195.3
50°	566.8	405.6	261.5	183.8	165.1	157.9	156.9	156.9	158.5	157.4	156.9
52.5°	579.0	401.8	236.7	157.9	143.1	137.0	136.0	135.3	134.8	131.5	128.8
55°	599.9	410.6	229.5	151.3	136.0	129.3	127.7	126.6	124.4	120.0	115.0
57.5°	641.7	438.0	236.1	154.6	138.1	132.6	131.0	131.0	126.6	119.4	112.2
60°	742.4	508.0	263.1	167.4	148.6	143.1	144.1	143.6	137.0	126.6	115.5
62.5°	872.3	599.4	298.2	184.9	161.8	160.7	166.2	165.1	154.1	138.1	122.2
65°	932.3	642.3	308.2	188.8	164.6	169.5	180.5	179.4	165.7	143.6	123.3
66°	933.4	642.3	303.8	185.5	160.7	166.7	177.7	177.2	163.4	141.5	121.0
67.5°	910.9	624.7	291.1	178.9	153.0	157.4	167.4	166.7	154.1	136.0	116.7
70°	826.1	559.2	258.7	167.4	142.6	140.3	143.6	141.5	133.2	120.5	107.4
72.5°	707.8	469.4	225.6	158.5	135.3	126.6	124.4	122.7	116.2	109.0	100.7
75°	557.5	371.5	198.1	151.9	128.8	117.2	113.4	111.2	106.7	101.9	95.2
77.5°	343.9	265.8	172.8	143.1	123.8	112.2	109.5	106.2	99.6	93.6	88.6
80°	153.6	164.6	142.0	125.0	110.6	100.2	95.8	90.8	84.2	80.3	77.6
82.5°	102.4	106.2	102.9	93.6	83.6	75.4	68.8	68.8	67.7	64.4	63.3
85°	65.5	66.0	63.8	57.8	53.9	49.0	46.2	46.7	49.0	48.4	47.9
87.5°	14.8	14.8	17.6	16.5	19.3	20.4	22.0	23.6	26.9	26.9	28.6
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: P156465

CATALOG NUMBER: VXS-F02-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	657.6	657.6	657.6	657.6	657.6
2.5°	676.9	678.0	679.2	677.5	678.0
5°	696.2	695.6	698.4	696.8	697.8
7.5°	702.3	702.8	705.0	705.0	705.6
10°	702.8	703.9	706.6	708.3	709.4
12.5°	705.6	707.8	712.1	713.3	713.3
15°	707.8	708.8	711.6	712.7	713.8
17.5°	700.0	697.8	699.0	699.5	699.0
20°	680.8	678.5	678.0	675.9	676.9
22.5°	659.9	653.8	649.9	645.6	645.6
25°	634.5	625.2	617.5	609.7	611.4
27.5°	610.9	598.8	591.1	586.1	585.0
30°	587.8	575.1	568.0	561.9	561.9
32.5°	549.2	540.4	531.1	527.3	526.7
35°	495.9	490.4	482.7	481.0	478.2
37.5°	435.9	434.2	427.7	427.0	424.4
40°	373.2	374.2	372.0	371.0	369.3
42.5°	310.4	315.9	314.8	314.3	313.2
45°	250.4	254.3	254.8	256.5	259.2
47.5°	197.0	198.1	199.3	198.7	199.3
50°	154.1	151.3	150.8	149.1	150.8
52.5°	124.4	120.0	117.8	115.5	114.5
55°	109.5	105.1	102.9	101.9	100.7
57.5°	105.7	101.2	97.9	95.8	95.2
60°	106.7	100.2	95.8	93.1	92.4
62.5°	109.5	100.7	94.6	91.9	91.4
65°	109.0	99.6	94.1	90.8	90.3
66°	107.4	98.5	93.1	90.3	89.7
67.5°	104.6	96.9	91.9	89.7	88.6
70°	99.6	94.6	90.8	88.1	86.9
72.5°	95.2	91.4	88.1	85.3	84.8
75°	90.3	86.9	83.6	81.5	80.9
77.5°	84.2	80.9	78.7	77.1	76.5
80°	74.3	72.1	69.8	67.7	67.7
82.5°	61.7	60.0	57.8	56.2	55.5
85°	47.4	47.4	45.7	44.0	43.5
87.5°	28.1	27.6	27.6	25.9	25.9
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)