

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: P152166

Luminaire Tested: **VXS-F03-LED-E1-SL4-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P152166
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-SL4-7050
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (21) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7507.1 lumens
Efficiency: N/A
Efficacy: 95.9 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

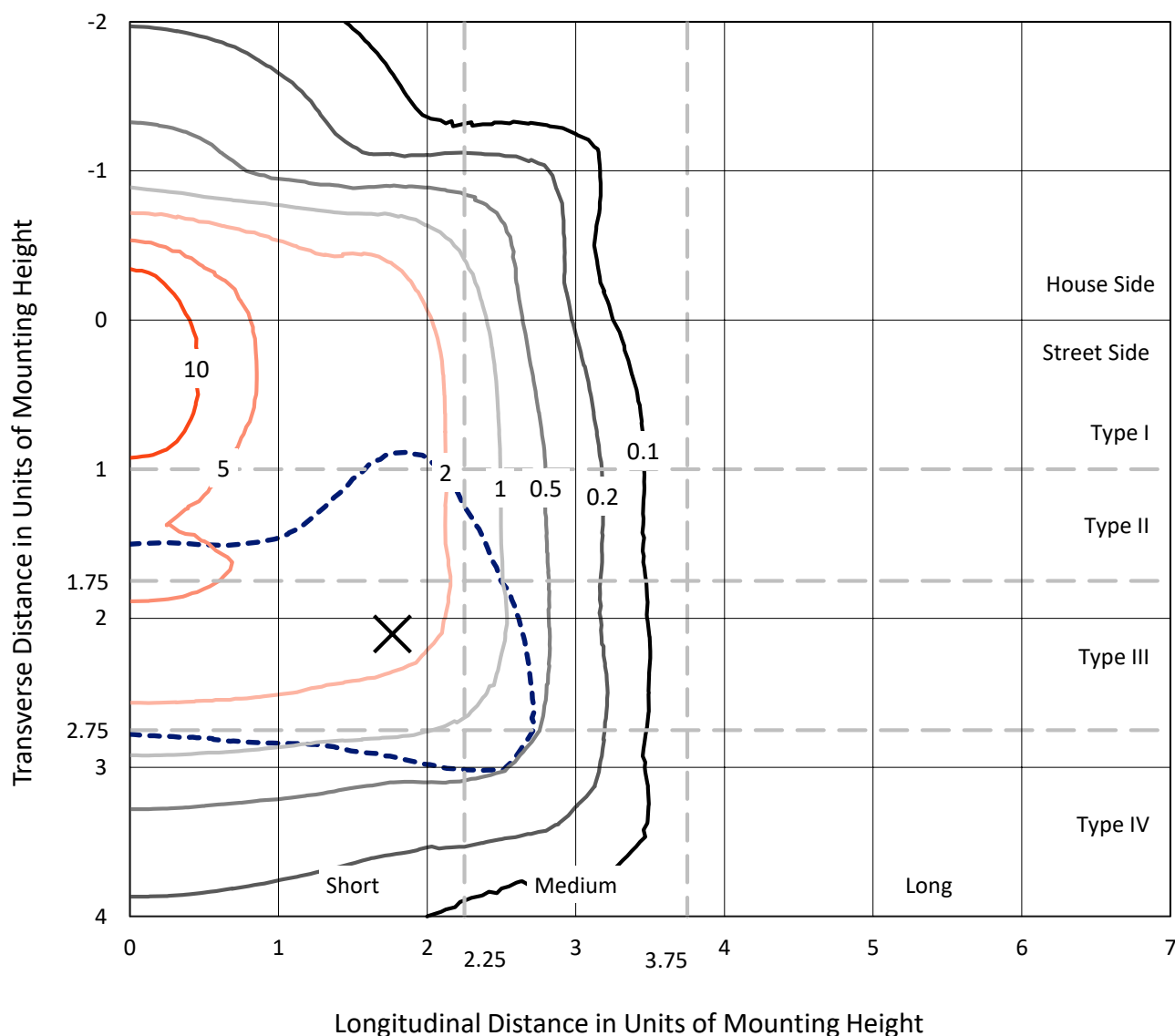


REPORT NUMBER: P152166

CATALOG NUMBER: VXS-F03-LED-E1-SL4-7050

Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

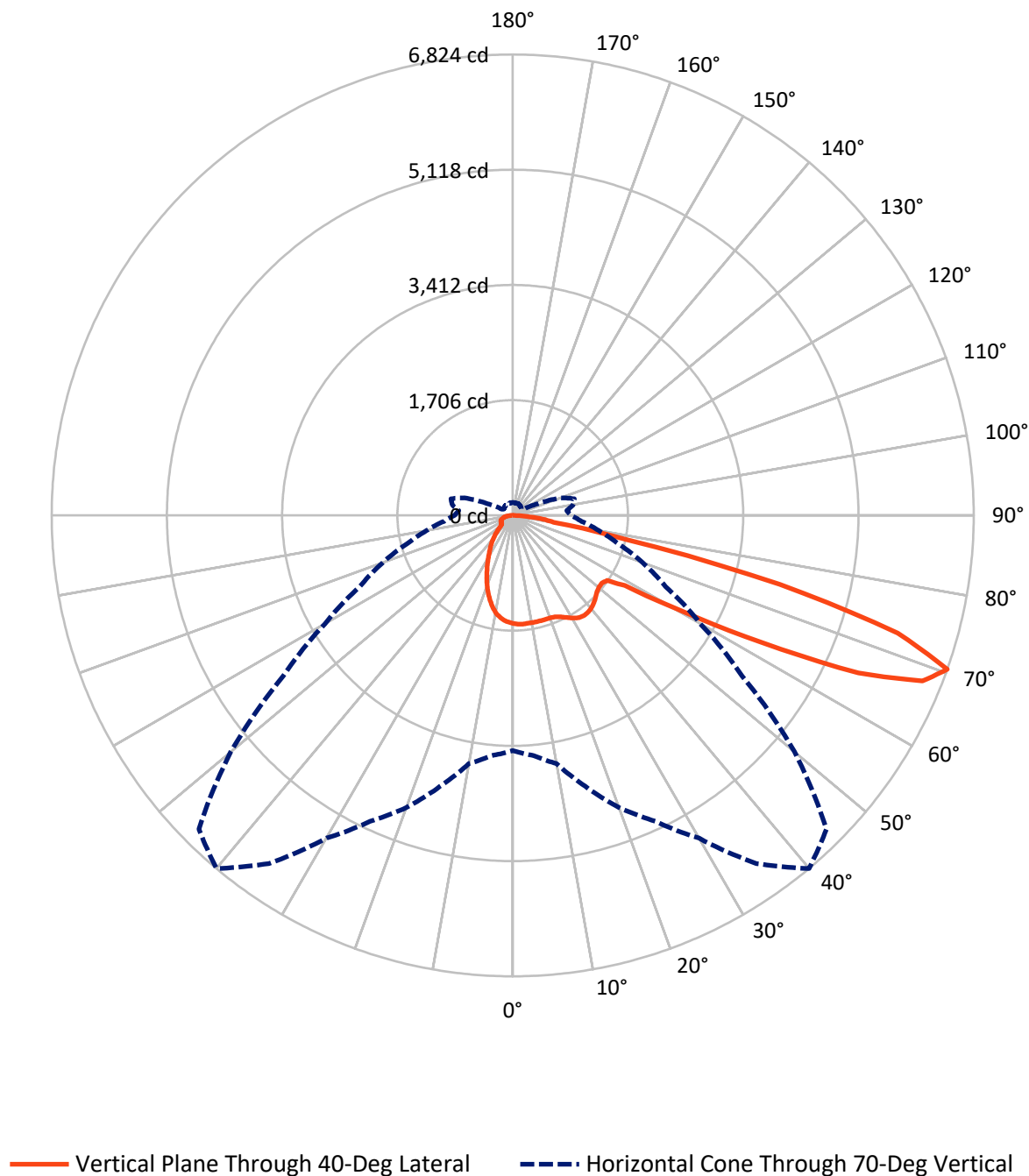


Based on 10 foot mounting height. Maximum calculated value = 16.1 fc
 Type IV - Short - Full Cutoff

REPORT NUMBER: P152166

CATALOG NUMBER: VXS-F03-LED-E1-SL4-7050

Luminous Intensity Polar Plot



REPORT NUMBER: P152166

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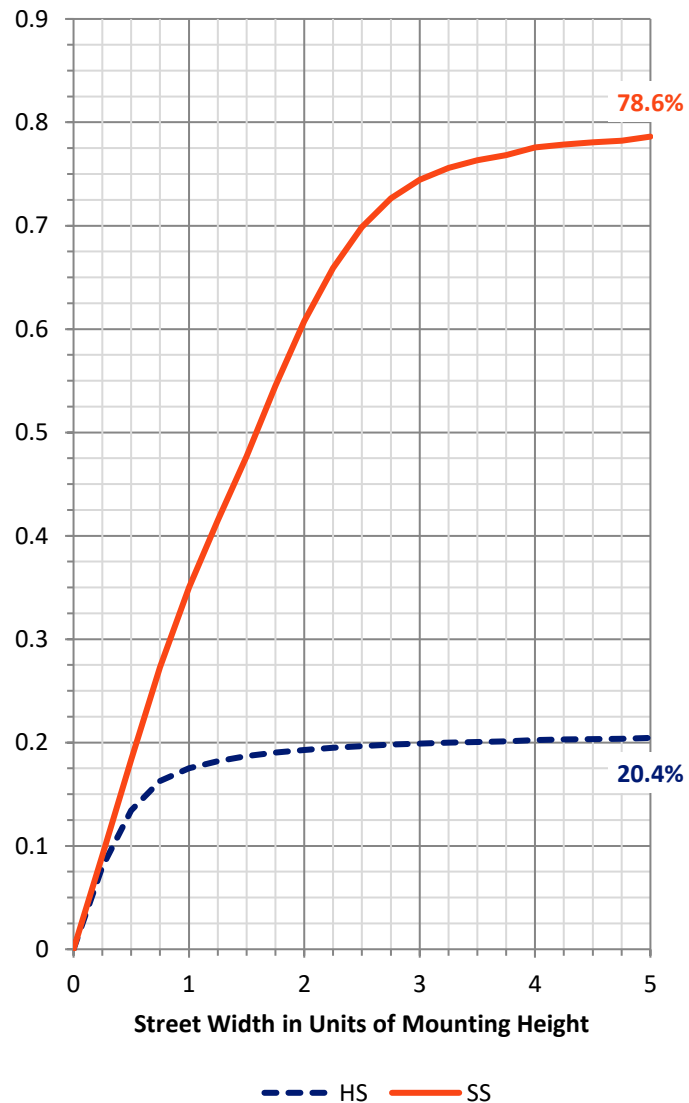
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1558.4	0.0	1558.4
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	5948.7	0.0	5948.7
	% Fixture	79.2	0.0	79.2
Total	Lumens	7507.1	0.0	7507.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	149.6	2.0
10°-20°	409.7	5.5
20°-30°	606.4	8.1
30°-40°	766.4	10.2
40°-50°	866.7	11.5
50°-60°	1233.4	16.4
60°-70°	2297.1	30.6
70°-80°	1052.8	14.0
80°-90°	125.0	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°	7507.1	100.0
0°-180°	7507.1	100.0

Coefficient of Utilization



REPORT NUMBER: P152166

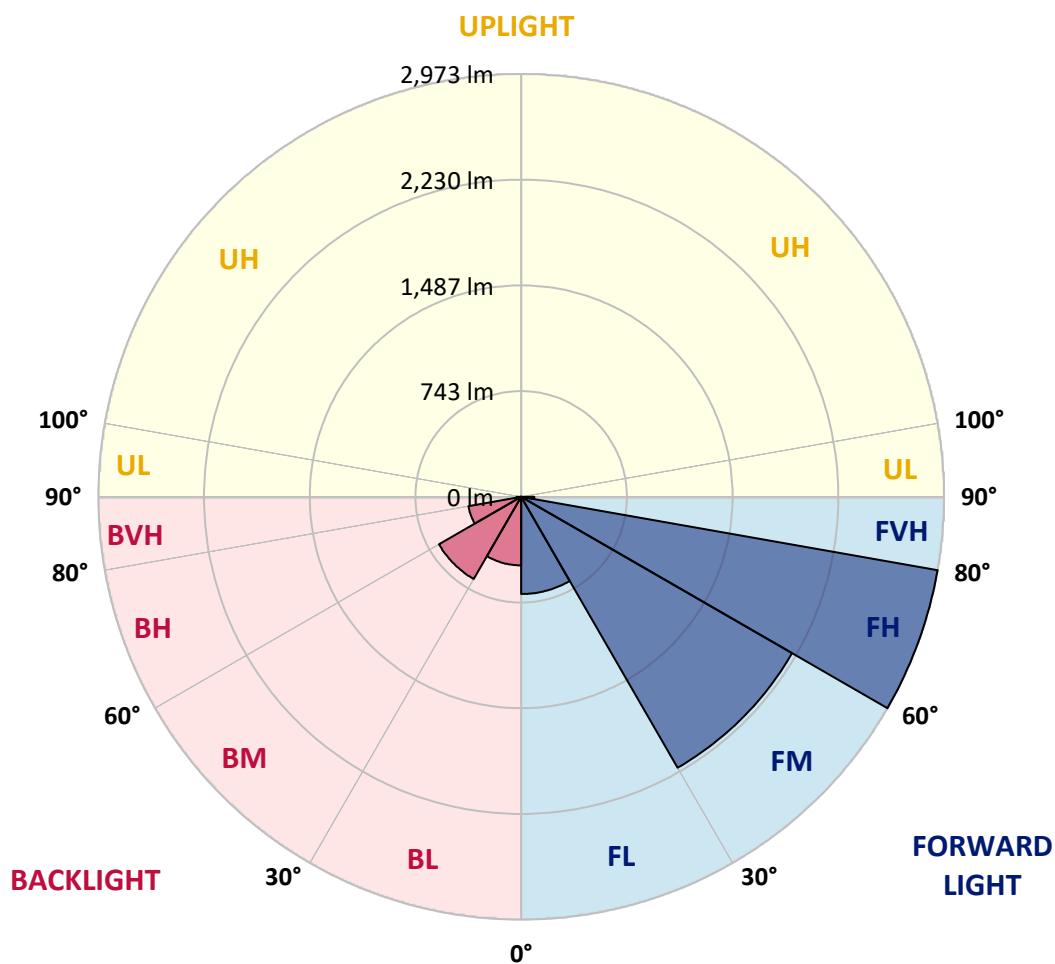
CATALOG NUMBER: VXS-F03-LED-E1-SL4-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	683.6	9.1			
FM	(30°-60°)	2199.3	29.3			
FH	(60°-80°)	2973.1	39.6			G2/5000
FVH	(80°-90°)	92.7	1.2			G1/100
BL	(0°-30°)	482.2	6.4	B1/500		
BM	(30°-60°)	667.2	8.9	B1/1000		
BH	(60°-80°)	376.7	5.0	B1/500		G1/500
BVH	(80°-90°)	32.3	0.4			G1/100
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short



REPORT NUMBER: P152166

CATALOG NUMBER: VXS-F03-LED-E1-SL4-7050

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9
2.5°	1626.4	1630.6	1625.5	1624.7	1624.7	1623.8	1618.8	1617.9	1611.1	1612.0	1613.7
5°	1638.2	1639.9	1636.6	1635.8	1634.0	1630.6	1626.4	1621.3	1616.3	1611.1	1606.9
7.5°	1650.1	1648.4	1645.9	1645.9	1643.3	1638.2	1629.7	1623.0	1612.0	1606.0	1598.4
10°	1667.0	1664.5	1661.1	1659.4	1655.2	1647.6	1635.8	1626.4	1612.8	1600.9	1588.3
12.5°	1683.1	1682.3	1677.2	1674.7	1667.9	1660.3	1645.9	1631.5	1613.7	1595.0	1578.1
15°	1711.9	1708.6	1703.4	1698.3	1687.4	1677.2	1655.2	1638.2	1612.8	1588.3	1562.0
17.5°	1762.0	1756.0	1750.9	1739.9	1726.3	1708.6	1676.4	1647.6	1612.8	1577.3	1547.6
20°	1853.4	1840.7	1833.9	1819.5	1795.8	1763.6	1713.7	1667.0	1615.3	1569.6	1529.8
22.5°	1956.8	1948.3	1939.0	1929.6	1892.3	1845.8	1778.0	1708.6	1630.6	1566.2	1515.4
25°	2072.7	2061.8	2056.7	2040.6	2005.9	1952.5	1860.2	1763.6	1665.4	1579.8	1515.4
27.5°	2176.2	2172.7	2171.9	2153.3	2120.2	2057.5	1948.3	1832.2	1712.7	1607.8	1528.1
30°	2270.2	2266.7	2265.1	2254.9	2216.8	2142.3	2023.6	1893.3	1764.5	1646.7	1551.8
32.5°	2370.2	2359.1	2354.0	2334.5	2291.3	2204.0	2068.6	1933.1	1805.1	1684.9	1578.1
35°	2451.4	2442.1	2431.9	2404.0	2343.0	2239.7	2088.1	1946.5	1821.2	1706.0	1591.6
37.5°	2510.8	2501.5	2487.0	2451.4	2376.1	2251.5	2087.2	1942.4	1815.2	1702.6	1594.2
40°	2537.0	2527.7	2512.4	2467.6	2382.0	2244.8	2071.1	1922.9	1797.5	1684.9	1584.0
42.5°	2526.8	2520.0	2500.5	2457.4	2363.3	2214.3	2038.9	1886.4	1763.6	1656.1	1561.1
45°	2487.9	2482.8	2464.1	2418.4	2321.0	2165.1	1991.5	1840.7	1722.9	1620.4	1530.7
47.5°	2429.4	2427.7	2409.1	2364.1	2267.7	2116.0	1942.4	1795.8	1682.3	1585.7	1505.3
50°	2365.1	2356.6	2347.3	2305.7	2217.6	2073.7	1906.7	1767.9	1659.4	1573.1	1494.2
52.5°	2324.4	2321.9	2313.4	2276.1	2191.4	2049.1	1890.7	1757.7	1657.7	1570.5	1488.3
55°	2685.2	2691.2	2613.3	2451.4	2309.1	2116.9	1939.0	1809.3	1699.3	1611.1	1551.0
57.5°	3971.9	3945.7	3811.8	3490.8	3128.3	2649.6	2304.9	2095.6	1959.3	1974.5	2005.1
60°	4627.6	4622.5	4597.9	4473.4	4232.0	3867.8	3463.7	3000.3	2853.0	2869.0	2880.9
62.5°	4920.6	4928.3	4946.9	4900.3	4836.8	4730.9	4529.3	4343.0	4145.6	4071.9	3874.5
65°	5056.2	5069.7	5112.1	5138.3	5162.9	5181.6	5261.1	5479.7	5623.7	5354.4	4727.6
67.5°	4775.9	4841.0	4980.8	5117.2	5239.2	5412.8	5682.2	6189.5	6542.8	6211.6	5302.7
70°	3481.5	3570.5	3730.6	4152.3	4603.0	4996.9	5518.7	6291.2	6824.0	6568.2	5445.0
72.5°	2182.9	2207.5	2278.7	2433.7	2768.3	3274.0	4186.2	5345.1	5960.0	5755.9	4602.2
75°	1385.0	1393.5	1390.9	1426.4	1483.2	1593.4	1954.2	3157.1	4082.9	3764.4	2565.0
77.5°	825.1	837.7	842.8	853.9	880.9	919.9	949.5	1074.1	1711.9	1662.0	931.0
80°	691.2	701.3	693.0	690.4	673.5	661.6	676.0	661.6	614.1	591.3	544.7
82.5°	365.9	365.1	362.6	387.2	437.1	476.1	505.7	499.0	451.5	384.6	326.1
85°	200.7	207.6	207.6	216.0	208.4	209.2	216.0	227.9	210.9	176.2	144.0
87.5°	16.9	26.2	21.1	26.2	35.5	25.4	24.6	24.6	21.1	15.2	13.6
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: P152166

CATALOG NUMBER: VXS-F03-LED-E1-SL4-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9
2.5°	1609.4	1607.8	1604.4	1601.9	1601.9	1597.6	1595.0	1593.4	1592.5	1589.1	1589.1
5°	1604.4	1598.4	1592.5	1588.3	1585.7	1581.5	1574.7	1571.3	1567.0	1563.7	1562.0
7.5°	1593.4	1582.4	1573.1	1566.2	1557.8	1551.0	1542.5	1534.9	1527.3	1523.9	1522.2
10°	1576.4	1562.0	1547.6	1534.9	1523.0	1511.2	1500.2	1489.1	1479.8	1473.1	1466.3
12.5°	1560.3	1538.2	1519.7	1501.0	1482.4	1468.0	1452.7	1436.7	1423.1	1410.4	1406.9
15°	1538.2	1512.8	1489.1	1466.3	1443.4	1419.7	1401.0	1383.3	1361.2	1346.8	1335.9
17.5°	1517.9	1487.5	1458.7	1431.6	1403.6	1379.1	1351.1	1327.4	1305.4	1283.3	1267.3
20°	1496.0	1462.9	1432.4	1401.9	1371.4	1340.1	1307.9	1277.4	1250.3	1224.0	1197.7
22.5°	1476.5	1442.6	1413.0	1379.9	1346.0	1310.5	1273.2	1235.0	1203.7	1169.8	1139.3
25°	1464.6	1427.4	1396.8	1364.7	1327.4	1288.4	1246.0	1201.1	1163.0	1124.0	1087.7
27.5°	1464.6	1416.3	1385.0	1352.7	1314.6	1273.2	1226.5	1177.4	1134.2	1091.0	1046.1
30°	1477.3	1418.0	1375.6	1341.8	1302.8	1257.9	1206.2	1154.6	1107.2	1056.3	1013.1
32.5°	1489.1	1421.3	1368.9	1325.7	1280.8	1236.7	1184.2	1129.1	1076.7	1028.4	982.6
35°	1496.8	1421.3	1356.2	1301.1	1250.3	1207.0	1155.4	1100.3	1046.9	999.6	957.2
37.5°	1497.6	1414.6	1335.9	1273.2	1219.8	1174.9	1125.8	1074.1	1023.3	979.2	943.6
40°	1489.1	1401.0	1315.5	1243.5	1187.6	1141.9	1097.0	1050.4	1004.7	968.2	937.7
42.5°	1473.9	1386.6	1296.1	1219.8	1161.3	1113.9	1072.4	1032.5	992.7	961.5	936.1
45°	1451.1	1367.2	1278.2	1205.4	1147.8	1097.8	1057.2	1024.1	990.3	963.9	938.5
47.5°	1430.7	1360.4	1284.1	1214.7	1154.6	1102.9	1061.3	1033.5	1007.2	989.4	954.6
50°	1426.4	1357.0	1286.7	1222.3	1161.3	1108.8	1072.4	1058.0	1050.4	1039.4	986.0
52.5°	1414.6	1356.2	1305.4	1269.7	1230.8	1206.2	1168.1	1181.7	1173.2	1134.2	1037.6
55°	1539.2	1556.1	1603.5	1671.3	1734.0	1748.4	1744.1	1728.1	1642.5	1413.0	1162.2
57.5°	2116.0	2211.7	2301.6	2341.3	2336.3	2291.3	2259.2	2193.9	2070.3	1790.7	1407.9
60°	2917.3	2932.5	2885.2	2814.8	2696.3	2597.1	2491.3	2369.2	2189.7	1916.1	1558.7
62.5°	3655.1	3450.2	3239.2	3041.0	2860.6	2703.0	2555.6	2385.4	2151.6	1866.1	1539.2
65°	4176.1	3742.4	3409.4	3124.9	2869.8	2649.6	2465.8	2244.8	1981.3	1723.8	1426.4
67.5°	4444.6	3779.7	3268.9	2872.4	2510.8	2205.8	1960.9	1745.8	1550.2	1437.5	1248.6
70°	4144.8	3207.9	2496.4	2048.2	1615.3	1295.1	1023.3	859.0	802.2	908.9	945.3
72.5°	3088.4	2088.1	1485.0	1148.6	880.1	701.3	537.9	422.7	343.9	360.8	468.4
75°	1460.3	901.2	637.0	484.6	385.4	319.4	260.9	238.9	199.9	166.0	155.9
77.5°	568.4	414.2	342.2	250.8	177.9	143.1	122.0	117.7	120.3	116.9	115.2
80°	432.8	293.1	183.8	134.7	116.1	102.5	90.7	87.3	88.9	93.2	97.4
82.5°	241.5	150.8	111.8	97.4	87.3	74.5	67.8	62.7	63.5	68.6	77.9
85°	93.2	72.8	66.9	64.4	60.1	48.3	41.6	42.4	48.3	57.6	57.6
87.5°	10.2	10.2	13.6	10.2	10.2	10.2	9.3	11.0	11.8	15.2	17.8
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: P152166

CATALOG NUMBER: VXS-F03-LED-E1-SL4-7050

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9	1601.9
2.5°	1587.5	1587.5	1587.5	1585.7	1586.5	1583.2	1583.2	1580.6	1584.9	1582.4	1581.5
5°	1562.9	1562.0	1558.7	1558.7	1558.7	1558.7	1561.1	1554.4	1559.5	1559.5	1556.9
7.5°	1521.3	1521.3	1512.0	1517.1	1515.4	1517.9	1521.3	1517.9	1523.0	1526.4	1523.9
10°	1463.7	1463.7	1456.2	1462.1	1459.5	1465.5	1471.4	1468.0	1471.4	1476.5	1478.1
12.5°	1400.2	1396.8	1390.1	1392.6	1392.6	1396.0	1398.5	1402.8	1406.9	1413.8	1417.2
15°	1326.5	1321.5	1313.0	1313.0	1307.9	1309.5	1314.6	1316.4	1324.9	1334.1	1345.2
17.5°	1251.1	1238.4	1229.1	1218.1	1209.6	1216.4	1222.3	1226.5	1233.4	1247.8	1255.3
20°	1180.0	1154.6	1136.8	1122.4	1113.1	1117.3	1124.9	1129.9	1136.0	1139.3	1141.9
22.5°	1109.6	1080.8	1056.3	1038.5	1023.3	1027.5	1024.1	1021.6	1025.8	1014.8	1014.0
25°	1048.7	1014.8	981.8	960.6	942.0	936.1	918.2	914.0	902.2	892.8	886.0
27.5°	1004.7	960.6	924.1	899.6	869.9	847.9	825.1	802.2	789.4	774.2	766.6
30°	969.9	923.3	880.1	838.7	799.7	765.8	735.2	705.6	685.3	663.2	648.8
32.5°	937.7	894.5	842.0	785.3	732.7	694.6	654.8	620.9	588.7	559.9	538.8
35°	915.6	867.4	800.5	731.0	671.7	626.8	584.5	536.2	497.2	460.0	437.1
37.5°	903.8	844.6	762.4	685.3	619.2	568.4	515.9	460.0	412.5	377.8	343.1
40°	894.5	821.7	728.5	644.7	575.1	514.2	453.2	387.2	334.6	298.1	271.1
42.5°	884.4	796.3	698.9	612.4	535.3	464.2	390.5	320.2	270.3	244.8	233.0
45°	873.4	774.2	670.9	582.0	496.4	409.9	325.3	260.1	230.4	222.0	222.0
47.5°	870.8	759.8	650.6	552.3	452.3	347.3	265.2	224.5	216.0	217.7	221.0
50°	880.9	755.5	632.7	517.5	393.9	281.2	224.5	210.9	212.6	217.7	222.8
52.5°	905.5	759.0	614.1	469.3	324.5	232.1	207.6	206.7	211.8	219.4	224.5
55°	947.0	759.0	578.5	397.3	259.2	208.4	201.6	205.0	211.8	218.5	222.8
57.5°	1036.0	751.4	515.9	317.6	216.9	199.9	199.9	204.1	210.1	216.9	220.2
60°	1141.9	741.1	427.8	245.7	195.6	193.2	199.1	204.1	209.2	215.1	218.5
62.5°	1148.6	714.9	338.9	203.3	184.7	188.9	198.2	205.0	206.7	210.9	215.1
65°	1055.4	623.4	269.3	182.1	179.6	186.3	195.6	200.7	201.6	203.3	207.6
67.5°	924.1	508.3	217.7	171.9	174.5	182.1	187.3	191.4	194.0	198.2	199.1
70°	759.0	408.3	186.3	161.8	164.4	172.8	177.0	181.2	186.3	191.4	188.9
72.5°	537.9	317.6	163.5	150.8	154.2	161.8	166.8	170.3	174.5	179.6	176.2
75°	228.7	222.0	141.5	136.4	141.5	146.5	151.6	156.7	160.9	163.5	163.5
77.5°	116.9	130.5	122.0	122.0	125.4	130.5	134.7	139.8	142.3	144.9	148.2
80°	99.1	100.8	102.5	105.9	109.2	114.4	118.5	122.8	123.6	124.6	126.2
82.5°	82.2	85.6	87.3	92.3	94.9	96.6	99.1	99.1	100.8	100.8	98.2
85°	59.3	63.5	66.1	66.9	66.1	66.9	67.8	69.4	73.7	73.7	70.3
87.5°	16.9	16.1	20.3	21.1	22.9	26.2	29.6	35.5	37.3	39.0	39.0
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: P152166

CATALOG NUMBER: VXS-F03-LED-E1-SL4-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	1601.9	1601.9	1601.9	1601.9
2.5°	1580.6	1582.4	1579.0	1579.8
5°	1556.9	1560.3	1556.1	1561.1
7.5°	1526.4	1531.5	1530.7	1529.8
10°	1482.4	1489.1	1489.1	1491.7
12.5°	1426.4	1430.7	1434.1	1435.8
15°	1351.1	1358.8	1362.9	1362.9
17.5°	1260.4	1265.5	1268.1	1264.7
20°	1145.3	1143.5	1144.4	1136.0
22.5°	1012.2	1014.8	1007.2	1008.9
25°	881.8	877.6	880.9	875.9
27.5°	755.5	756.5	747.2	751.4
30°	635.3	631.1	619.2	625.2
32.5°	519.3	508.3	495.5	487.9
35°	409.9	393.1	387.2	384.6
37.5°	321.9	303.2	297.3	290.6
40°	255.9	249.0	246.5	248.2
42.5°	229.5	229.5	231.3	232.1
45°	222.8	225.3	227.9	228.7
47.5°	223.6	226.2	229.5	230.4
50°	225.3	227.9	230.4	231.3
52.5°	226.2	226.2	227.9	228.7
55°	224.5	223.6	224.5	225.3
57.5°	221.0	219.4	220.2	222.8
60°	219.4	216.9	218.5	220.2
62.5°	215.1	214.3	216.0	216.9
65°	205.8	206.7	209.2	209.2
67.5°	197.4	198.2	199.1	199.9
70°	187.3	188.1	189.7	190.6
72.5°	175.3	178.8	181.2	184.7
75°	166.0	169.4	174.5	177.9
77.5°	149.9	152.4	158.4	162.6
80°	127.0	126.2	127.0	129.6
82.5°	97.4	97.4	96.6	95.8
85°	68.6	67.8	65.2	65.2
87.5°	37.3	36.4	35.5	33.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)