

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: P156495

Luminaire Tested: **VXS-F05-LED-E1-T4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P156495
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-F05-LED-E1-T4
Description: VISION SITE SMALL LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 12473.9 lumens
Efficiency: N/A
Efficacy: 93.6 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B2 - 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



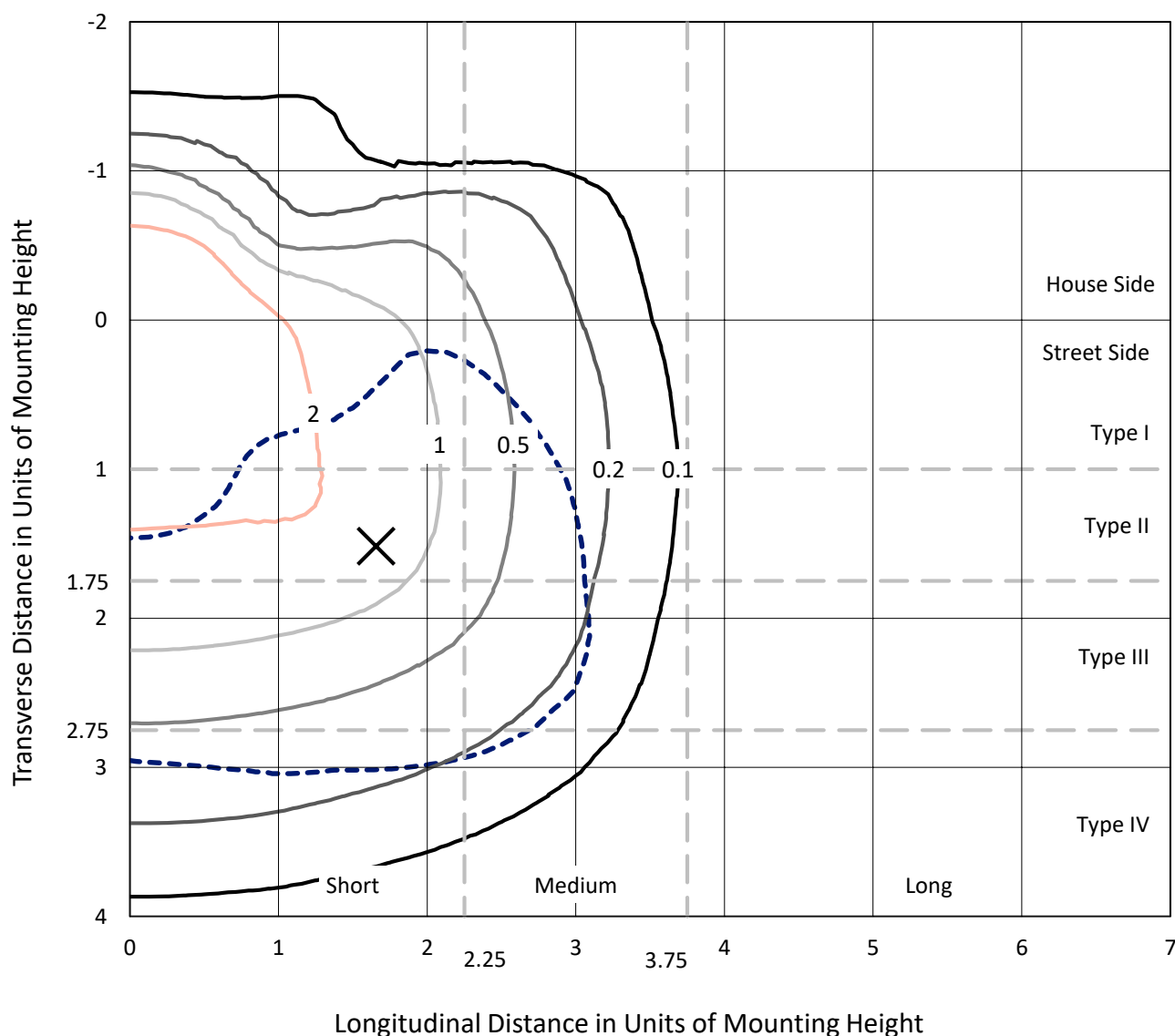
REPORT NUMBER: P156495

CATALOG NUMBER: VXS-F05-LED-E1-T4

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

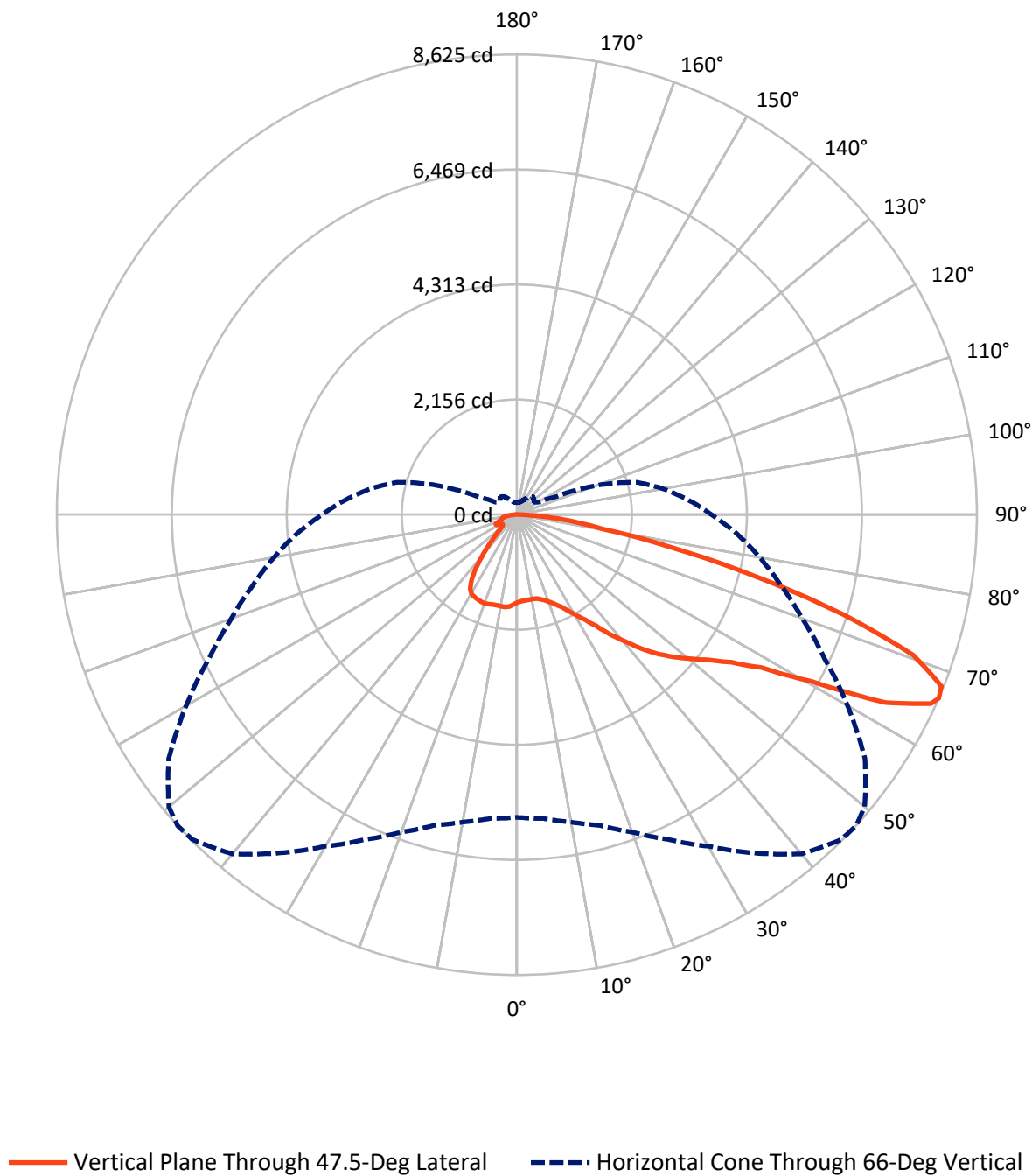


Based on 20 foot mounting height. Maximum calculated value = 4.3 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P156495

CATALOG NUMBER: VXS-F05-LED-E1-T4

Luminous Intensity Polar Plot



REPORT NUMBER: P156495

CATALOG NUMBER: VXS-F05-LED-E1-T4

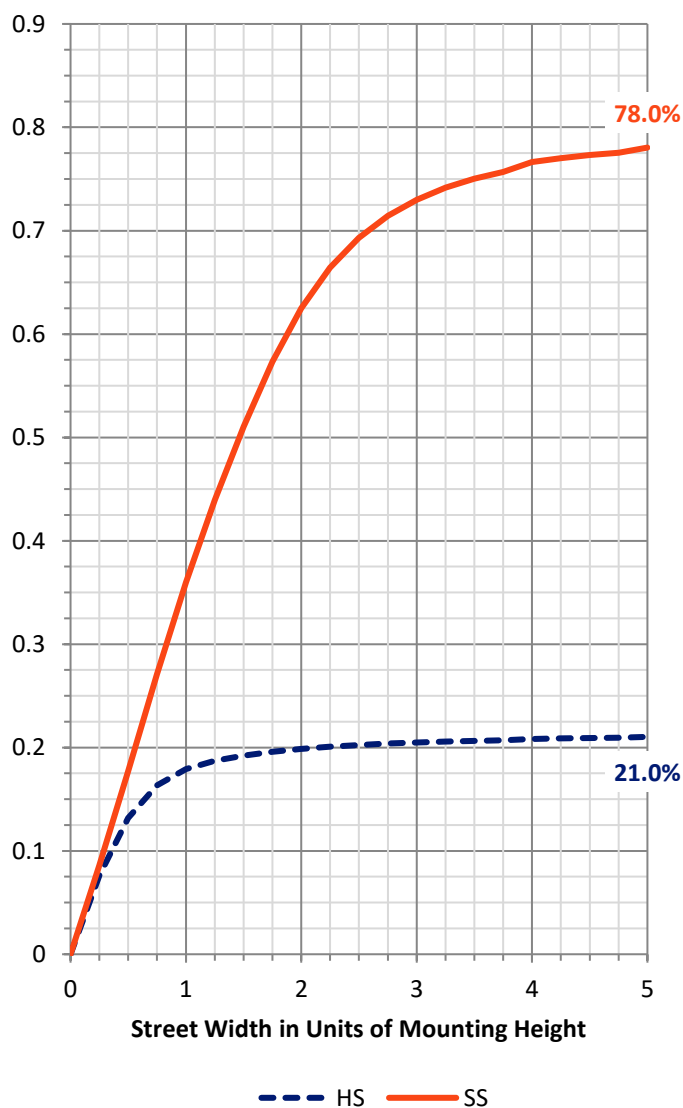
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2661.6	0.0	2661.6
	% Fixture	21.3	0.0	21.3
Street Side	Lumens	9812.2	0.0	9812.2
	% Fixture	78.7	0.0	78.7
Total	Lumens	12473.9	0.0	12473.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	159.7	1.3
10°-20°	484.7	3.9
20°-30°	834.9	6.7
30°-40°	1263.2	10.1
40°-50°	1637.3	13.1
50°-60°	2257.4	18.1
60°-70°	3507.2	28.1
70°-80°	2039.4	16.3
80°-90°	290.0	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°	12473.9	100.0
0°-180°	12473.9	100.0

Coefficient of Utilization



REPORT NUMBER: P156495

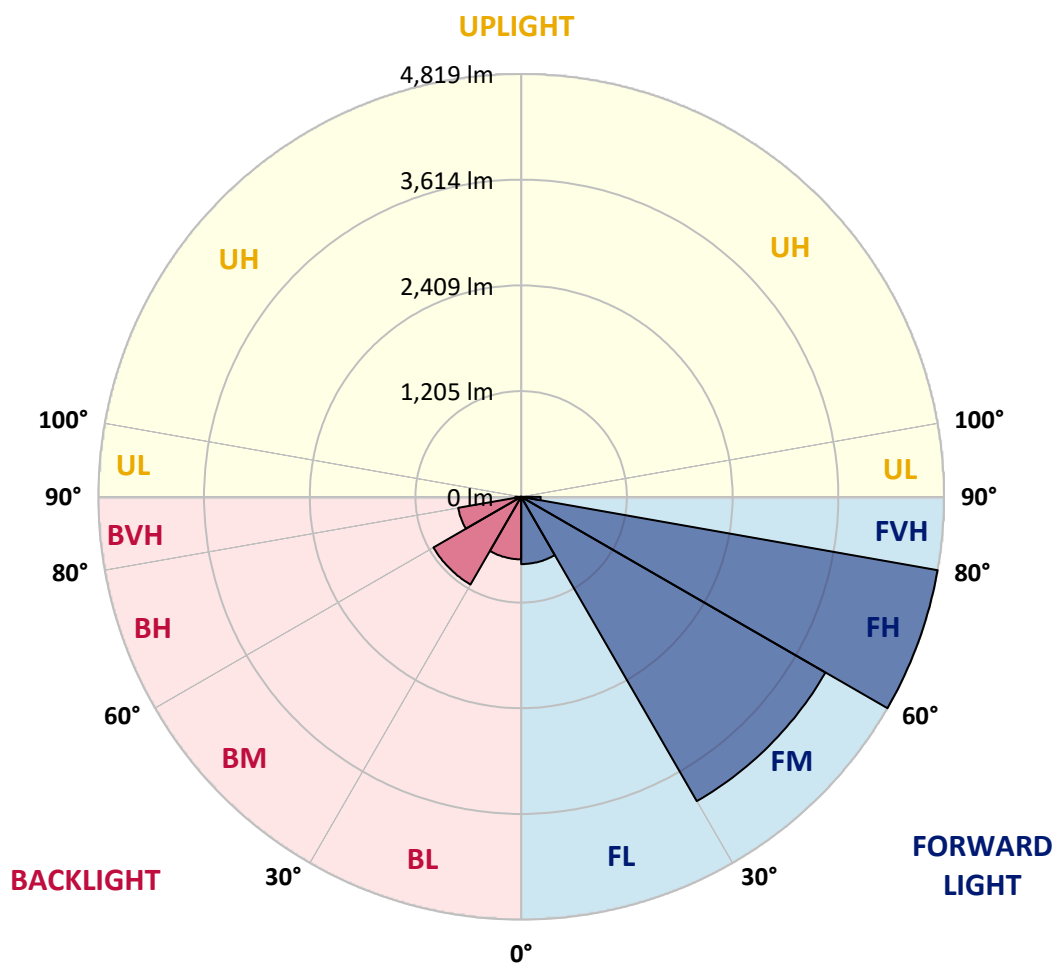
CATALOG NUMBER: VXS-F05-LED-E1-T4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	766.9	6.1			
FM	(30°-60°)	4004.1	32.1			
FH	(60°-80°)	4818.7	38.6			G2/5000
FVH	(80°-90°)	222.6	1.8			G2/225
BL	(0°-30°)	712.4	5.7	B2/1000		
BM	(30°-60°)	1153.8	9.2	B2/2500		
BH	(60°-80°)	727.9	5.8	B2/1000		G2/1000
BVH	(80°-90°)	67.4	0.5			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 IV Short



REPORT NUMBER: P156495

CATALOG NUMBER: VXS-F05-LED-E1-T4

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	47.5°
0°	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1613.9	1619.4	1615.2	1616.7	1616.7	1618.0	1618.0	1619.4	1618.0	1622.2	1624.9
5°	1585.0	1587.8	1586.4	1589.1	1591.9	1597.4	1596.1	1602.9	1604.2	1608.4	1615.2
7.5°	1574.0	1571.3	1572.6	1576.8	1579.5	1582.3	1585.0	1590.5	1594.6	1604.2	1609.7
10°	1585.0	1583.6	1585.0	1587.8	1587.8	1589.1	1586.4	1591.9	1594.6	1602.9	1608.4
12.5°	1630.4	1630.4	1627.7	1627.7	1624.9	1622.2	1615.2	1611.2	1609.7	1611.2	1613.9
15°	1703.3	1700.6	1695.1	1691.0	1685.5	1675.9	1666.2	1657.9	1652.4	1644.1	1641.5
17.5°	1774.9	1770.8	1765.3	1759.8	1752.8	1743.2	1728.1	1718.4	1703.3	1693.7	1688.2
20°	1857.4	1849.2	1842.3	1835.4	1821.7	1818.9	1803.7	1787.3	1769.3	1747.4	1744.6
22.5°	1964.8	1951.0	1942.7	1938.7	1924.9	1920.7	1896.0	1872.5	1850.6	1821.7	1814.8
25°	2073.5	2059.7	2055.5	2050.1	2040.4	2034.9	2011.5	1985.4	1956.5	1916.6	1908.3
27.5°	2179.4	2180.7	2169.7	2173.9	2171.1	2161.5	2138.1	2111.9	2089.9	2043.2	2033.6
30°	2311.5	2303.2	2297.7	2306.0	2296.4	2297.7	2277.1	2263.3	2227.6	2200.0	2180.7
32.5°	2449.0	2447.7	2456.0	2461.5	2460.1	2457.3	2440.8	2427.0	2395.4	2355.5	2347.3
35°	2637.5	2645.8	2652.6	2677.4	2677.4	2695.3	2678.9	2662.3	2625.2	2577.0	2560.5
37.5°	2765.5	2768.3	2795.8	2828.8	2870.1	2908.6	2919.6	2923.7	2908.6	2872.8	2848.1
40°	2882.5	2888.0	2932.0	2982.9	3043.4	3119.1	3164.6	3185.2	3189.3	3172.7	3119.1
42.5°	2999.4	3007.7	3053.1	3127.4	3211.3	3307.6	3387.4	3438.3	3467.3	3467.3	3435.5
45°	3135.6	3146.6	3196.2	3277.3	3375.0	3496.1	3606.2	3703.8	3750.7	3753.4	3723.1
47.5°	3296.6	3306.2	3364.0	3446.5	3547.0	3669.4	3808.4	3919.9	4006.5	4012.0	3987.3
50°	3504.4	3518.1	3566.2	3640.5	3743.7	3867.6	4006.5	4162.1	4252.8	4274.8	4248.7
52.5°	3779.5	3782.3	3822.2	3891.0	3991.4	4109.7	4257.0	4426.2	4545.9	4563.7	4521.1
55°	4159.3	4155.1	4181.2	4255.5	4331.3	4423.4	4576.2	4766.0	4899.5	4927.0	4883.0
57.5°	4675.2	4671.1	4693.2	4711.0	4852.7	4942.2	5092.1	5273.7	5403.1	5482.9	5407.2
60°	5474.6	5470.5	5506.2	5610.8	5716.8	5847.5	5993.3	6210.7	6392.3	6415.8	6341.5
62.5°	6053.9	6074.5	6153.0	6275.3	6490.1	6745.9	7012.8	7299.1	7671.9	7790.2	7754.4
65°	5851.6	5892.8	6001.6	6187.4	6473.5	6827.0	7245.4	7764.0	8263.5	8542.8	8534.5
66°	5669.9	5715.3	5848.8	6027.7	6330.4	6717.0	7173.8	7739.3	8297.9	8606.1	8625.4
67.5°	5339.8	5390.7	5521.3	5733.3	6027.7	6439.1	6930.3	7545.3	8176.8	8536.0	8586.8
70°	4697.2	4755.0	4849.9	5024.7	5315.0	5682.4	6199.7	6750.1	7411.8	7823.2	7885.2
72.5°	3926.7	3977.6	4083.6	4226.7	4464.7	4695.9	5101.8	5507.7	5980.9	6450.1	6404.7
75°	2819.2	2841.1	2904.5	3059.9	3187.9	3395.6	3721.8	4054.7	4378.0	4592.6	4622.9
77.5°	1465.3	1523.1	1612.5	1784.6	1923.5	2110.6	2322.5	2572.8	2809.5	3006.3	2952.6
80°	959.0	983.7	1063.5	1151.6	1253.5	1373.2	1514.8	1608.4	1638.7	1626.3	1638.7
82.5°	553.1	598.5	704.5	771.9	847.6	888.8	1001.7	1108.9	1169.5	1093.8	1066.3
85°	70.2	90.8	286.2	360.5	412.7	474.7	509.1	573.8	535.2	478.8	583.4
87.5°	15.1	13.8	19.3	41.2	42.7	35.8	67.5	71.5	44.0	22.0	27.6
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: P156495

CATALOG NUMBER: VXS-F05-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	50°	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°
0°	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1627.7	1629.0	1631.8	1636.0	1638.7	1641.5	1644.1	1648.3	1651.1	1653.8	1659.3
5°	1620.8	1626.3	1631.8	1637.3	1644.1	1655.1	1662.1	1667.6	1673.1	1684.0	1688.2
7.5°	1616.7	1626.3	1634.5	1644.1	1655.1	1664.8	1677.2	1684.0	1692.3	1699.2	1707.5
10°	1613.9	1627.7	1636.0	1649.6	1662.1	1671.7	1685.5	1693.7	1703.3	1711.6	1715.8
12.5°	1619.4	1626.3	1634.5	1648.3	1663.4	1677.2	1692.3	1699.2	1707.5	1714.3	1715.8
15°	1642.8	1642.8	1644.1	1655.1	1670.4	1681.3	1693.7	1700.6	1704.7	1708.8	1708.8
17.5°	1685.5	1675.9	1668.9	1670.4	1679.9	1686.8	1693.7	1693.7	1691.0	1689.5	1686.8
20°	1735.0	1722.6	1708.8	1699.2	1696.5	1691.0	1686.8	1673.1	1662.1	1652.4	1645.6
22.5°	1806.5	1787.3	1768.0	1750.2	1733.6	1713.0	1689.5	1662.1	1636.0	1618.0	1607.0
25°	1894.6	1879.5	1856.1	1828.5	1807.9	1769.3	1739.1	1699.2	1666.2	1642.8	1623.5
27.5°	2019.8	2001.9	1979.9	1955.1	1924.9	1882.2	1845.1	1798.2	1758.3	1723.9	1699.2
30°	2175.2	2151.9	2135.3	2105.1	2084.5	2036.3	1999.2	1941.3	1864.4	1809.3	1774.9
32.5°	2334.8	2308.7	2294.9	2271.6	2248.2	2219.3	2162.9	2073.5	1974.4	1885.0	1825.8
35°	2548.1	2520.6	2495.9	2475.2	2440.8	2387.2	2337.6	2230.3	2094.1	1968.9	1869.8
37.5°	2816.4	2771.0	2709.1	2656.8	2596.3	2519.3	2443.5	2333.5	2178.0	2015.6	1883.5
40°	3102.6	3022.8	2934.7	2837.1	2732.5	2621.0	2534.4	2422.9	2248.2	2055.5	1874.0
42.5°	3401.1	3274.6	3152.1	3014.5	2868.7	2736.6	2623.8	2501.3	2300.4	2066.5	1835.4
45°	3697.0	3555.2	3369.5	3189.3	3004.9	2841.1	2714.6	2577.0	2348.6	2070.7	1784.6
47.5°	3941.9	3796.1	3584.1	3358.5	3139.8	2954.0	2805.4	2656.8	2413.3	2099.6	1772.1
50°	4200.5	4023.1	3787.8	3520.8	3273.2	3065.5	2907.3	2753.2	2504.0	2173.9	1812.0
52.5°	4482.6	4279.0	4003.8	3705.2	3434.2	3201.7	3029.6	2871.5	2619.7	2278.4	1887.7
55°	4826.5	4577.5	4279.0	3941.9	3651.6	3394.3	3204.5	3017.3	2757.2	2402.3	1982.6
57.5°	5352.1	5046.7	4711.0	4327.2	4005.2	3701.1	3474.1	3258.0	2970.5	2586.6	2111.9
60°	6302.9	5976.8	5540.6	5075.6	4697.2	4342.3	4009.3	3741.0	3387.4	2949.8	2398.1
62.5°	7665.0	7231.6	6649.6	5998.9	5503.5	4991.7	4616.1	4217.1	3778.1	3306.2	2735.2
65°	8421.8	7896.2	7117.4	6362.1	5725.0	5169.1	4691.7	4229.4	3742.4	3291.1	2813.7
66°	8515.3	7967.7	7158.7	6363.4	5694.7	5123.7	4621.6	4142.8	3644.7	3214.1	2780.6
67.5°	8476.8	7916.8	7083.0	6243.7	5564.0	4950.4	4431.7	3935.0	3438.3	3036.6	2670.6
70°	7845.3	7314.2	6495.5	5682.4	5037.1	4431.7	3936.4	3448.0	2992.5	2648.6	2378.9
72.5°	6514.8	6060.7	5349.4	4711.0	4204.7	3705.2	3285.6	2819.2	2433.9	2179.4	2019.8
75°	4702.7	4427.6	3779.5	3413.6	2969.1	2637.5	2230.3	1953.8	1677.2	1553.4	1525.8
77.5°	2970.5	2600.4	2189.0	1802.4	1481.9	1228.7	956.3	811.8	676.9	663.2	800.7
80°	1503.8	1353.9	1042.9	831.0	699.0	565.5	447.2	338.4	236.7	284.8	341.2
82.5°	985.1	821.3	643.9	529.7	460.9	382.5	297.2	206.4	151.3	170.6	233.9
85°	532.4	454.0	366.0	288.9	233.9	209.1	140.3	99.1	97.7	104.6	133.5
87.5°	38.5	38.5	30.3	27.6	33.1	27.6	24.8	24.8	23.4	24.8	33.1
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: P156495

CATALOG NUMBER: VXS-F05-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1662.1	1666.2	1667.6	1674.4	1678.5	1681.3	1684.0	1684.0	1685.5	1689.5	1691.0
5°	1693.7	1700.6	1708.8	1714.3	1717.1	1725.4	1728.1	1728.1	1730.9	1736.4	1740.5
7.5°	1713.0	1722.6	1730.9	1733.6	1739.1	1741.9	1746.0	1748.7	1748.7	1754.2	1757.0
10°	1719.8	1725.4	1733.6	1733.6	1739.1	1739.1	1743.2	1744.6	1744.6	1750.2	1754.2
12.5°	1719.8	1722.6	1729.4	1729.4	1733.6	1735.0	1740.5	1744.6	1746.0	1752.8	1758.3
15°	1711.6	1714.3	1719.8	1721.2	1730.9	1736.4	1748.7	1757.0	1757.0	1763.8	1766.6
17.5°	1688.2	1695.1	1706.1	1717.1	1735.0	1747.4	1762.5	1769.3	1763.8	1759.8	1755.6
20°	1649.6	1662.1	1688.2	1715.8	1747.4	1763.8	1772.1	1765.3	1746.0	1726.7	1714.3
22.5°	1611.2	1636.0	1679.9	1721.2	1757.0	1768.0	1763.8	1739.1	1707.5	1684.0	1667.6
25°	1629.0	1657.9	1700.6	1737.7	1761.1	1758.3	1741.9	1707.5	1673.1	1642.8	1615.2
27.5°	1703.3	1735.0	1758.3	1770.8	1768.0	1748.7	1722.6	1684.0	1642.8	1602.9	1564.4
30°	1773.5	1790.1	1795.5	1785.9	1763.8	1732.2	1699.2	1655.1	1600.1	1550.6	1506.6
32.5°	1805.2	1788.6	1762.5	1736.4	1700.6	1673.1	1627.7	1579.5	1510.7	1451.5	1407.6
35°	1805.2	1739.1	1673.1	1618.0	1564.4	1529.9	1477.7	1413.1	1349.7	1300.2	1265.8
37.5°	1765.3	1638.7	1529.9	1440.5	1373.2	1336.0	1257.5	1199.8	1146.1	1129.6	1107.6
40°	1692.3	1505.2	1348.4	1231.4	1146.1	1091.1	1012.6	972.7	952.1	943.8	939.7
42.5°	1594.6	1356.6	1147.5	1003.0	910.9	848.9	796.6	771.9	770.5	769.1	769.1
45°	1490.1	1197.0	952.1	780.1	699.0	643.9	619.2	609.5	617.7	616.4	617.7
47.5°	1425.4	1076.0	773.3	590.3	528.3	492.5	480.2	484.4	491.2	488.4	488.4
50°	1417.2	1014.0	653.6	459.6	412.7	394.9	392.1	392.1	396.3	393.5	392.1
52.5°	1447.5	1004.4	591.6	394.9	357.7	342.6	339.8	338.4	337.1	328.8	322.0
55°	1499.7	1026.4	573.8	378.3	339.8	323.3	319.2	316.5	311.0	299.9	287.6
57.5°	1604.2	1095.2	590.3	386.6	345.4	331.6	327.5	327.5	316.5	298.5	280.7
60°	1856.1	1269.9	657.6	418.2	371.5	357.7	360.5	359.1	342.6	316.5	288.9
62.5°	2180.7	1498.3	745.7	462.3	404.5	401.8	415.5	412.7	385.3	345.4	305.5
65°	2330.8	1605.6	770.5	471.9	411.4	423.7	451.3	448.5	414.1	359.1	308.2
66°	2333.5	1605.6	759.5	463.6	401.8	416.9	444.5	443.0	408.6	353.6	302.7
67.5°	2277.1	1561.7	727.9	447.2	382.5	393.5	418.2	416.9	385.3	339.8	291.7
70°	2065.2	1397.9	646.6	418.2	356.4	350.9	359.1	353.6	333.0	301.3	268.3
72.5°	1769.3	1173.6	564.1	396.3	338.4	316.5	311.0	306.8	290.3	272.4	251.8
75°	1393.8	928.7	495.3	379.8	322.0	293.1	283.4	277.9	266.9	254.5	238.0
77.5°	859.9	664.6	432.0	357.7	309.5	280.7	273.8	265.5	249.0	233.9	221.6
80°	383.8	411.4	355.0	312.3	276.6	250.4	239.4	227.0	210.5	200.8	194.0
82.5°	256.0	265.5	257.3	233.9	209.1	188.5	172.0	172.0	169.2	160.9	158.2
85°	163.7	165.1	159.6	144.5	134.8	122.5	115.5	117.0	122.5	121.0	119.7
87.5°	37.1	37.1	44.0	41.2	48.2	50.9	55.0	59.2	67.5	67.5	71.5
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: P156495

CATALOG NUMBER: VXS-F05-LED-E1-T4

CANDELA DISTRIBUTION (continued):

	160°	165°	170°	175°	180°
0°	1644.1	1644.1	1644.1	1644.1	1644.1
2.5°	1692.3	1695.1	1697.8	1693.7	1695.1
5°	1740.5	1739.1	1746.0	1741.9	1744.6
7.5°	1755.6	1757.0	1762.5	1762.5	1763.8
10°	1757.0	1759.8	1766.6	1770.8	1773.5
12.5°	1763.8	1769.3	1780.4	1783.1	1783.1
15°	1769.3	1772.1	1779.0	1781.8	1784.6
17.5°	1750.2	1744.6	1747.4	1748.7	1747.4
20°	1702.0	1696.5	1695.1	1689.5	1692.3
22.5°	1649.6	1634.5	1624.9	1613.9	1613.9
25°	1586.4	1563.0	1543.7	1524.5	1528.6
27.5°	1527.3	1497.0	1477.7	1465.3	1462.6
30°	1469.4	1437.8	1419.9	1404.8	1404.8
32.5°	1373.2	1351.1	1327.7	1318.1	1316.7
35°	1239.7	1225.9	1206.6	1202.5	1195.6
37.5°	1089.7	1085.6	1069.0	1067.7	1060.8
40°	932.8	935.5	930.1	927.4	923.2
42.5°	776.0	789.7	787.0	785.6	782.9
45°	626.0	635.6	637.0	641.1	648.1
47.5°	492.5	495.3	498.0	496.7	498.0
50°	385.3	378.3	377.0	372.8	377.0
52.5°	311.0	299.9	294.4	288.9	286.2
55°	273.8	262.8	257.3	254.5	251.8
57.5°	264.1	253.2	244.9	239.4	238.0
60°	266.9	250.4	239.4	232.5	231.2
62.5°	273.8	251.8	236.7	229.7	228.4
65°	272.4	249.0	235.2	227.0	225.6
66°	268.3	246.3	232.5	225.6	224.2
67.5°	261.5	242.2	229.7	224.2	221.6
70°	249.0	236.7	227.0	220.1	217.4
72.5°	238.0	228.4	220.1	213.3	211.9
75°	225.6	217.4	209.1	203.6	202.3
77.5°	210.5	202.3	196.8	192.6	191.3
80°	185.7	180.2	174.7	169.2	169.2
82.5°	154.1	149.9	144.5	140.3	139.0
85°	118.3	118.3	114.2	110.1	108.7
87.5°	70.2	68.8	68.8	64.7	64.7
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)