

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: P154403

Luminaire Tested: **VXS-F04-LED-E1-T2-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P154403
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33671)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-F04-LED-E1-T2-8030
Description: VISION SITE SMALL LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8538.8 lumens
Efficiency: N/A
Efficacy: 83.5 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 102.2
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



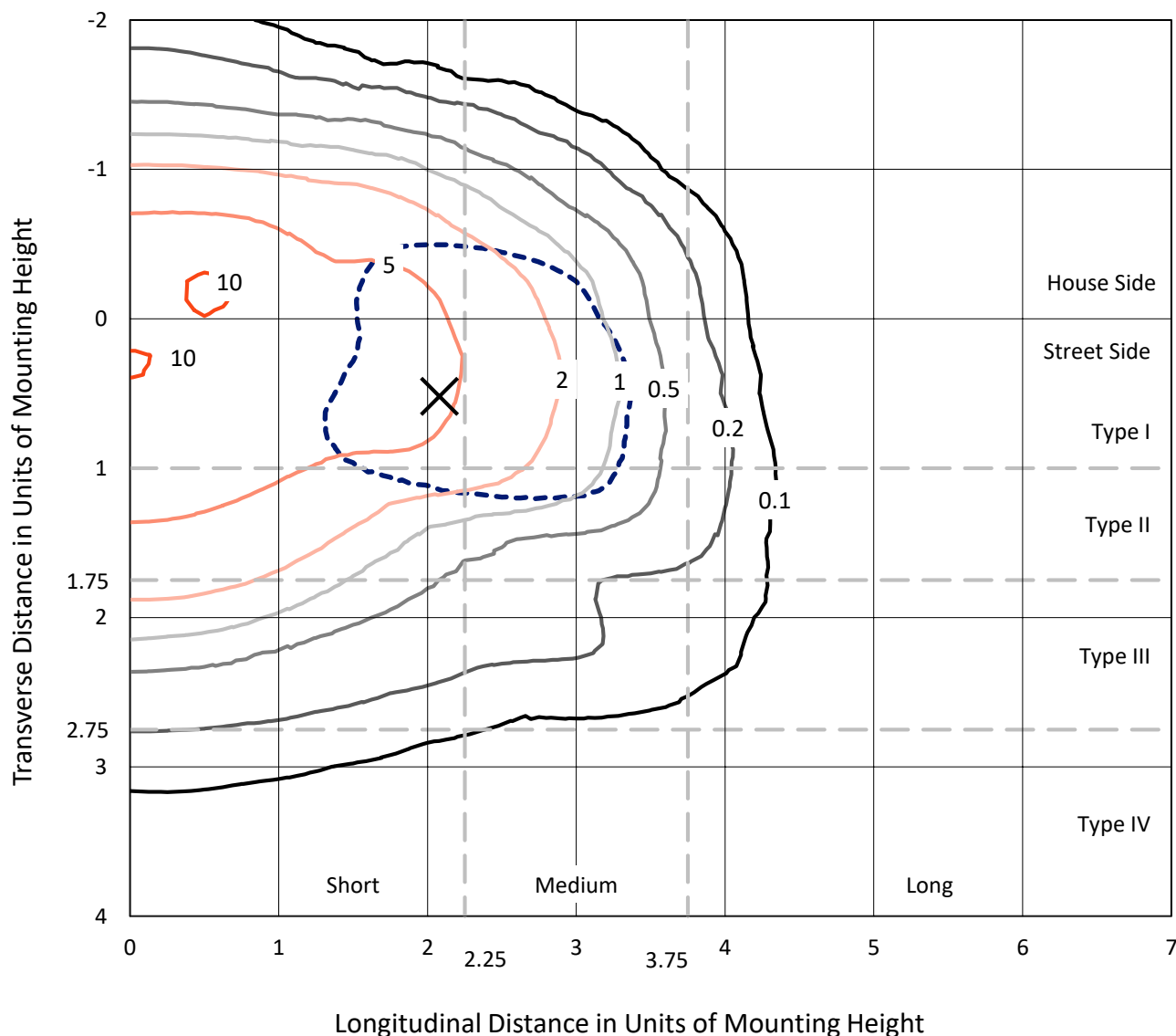
REPORT NUMBER: P154403

CATALOG NUMBER: VXS-F04-LED-E1-T2-8030

Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

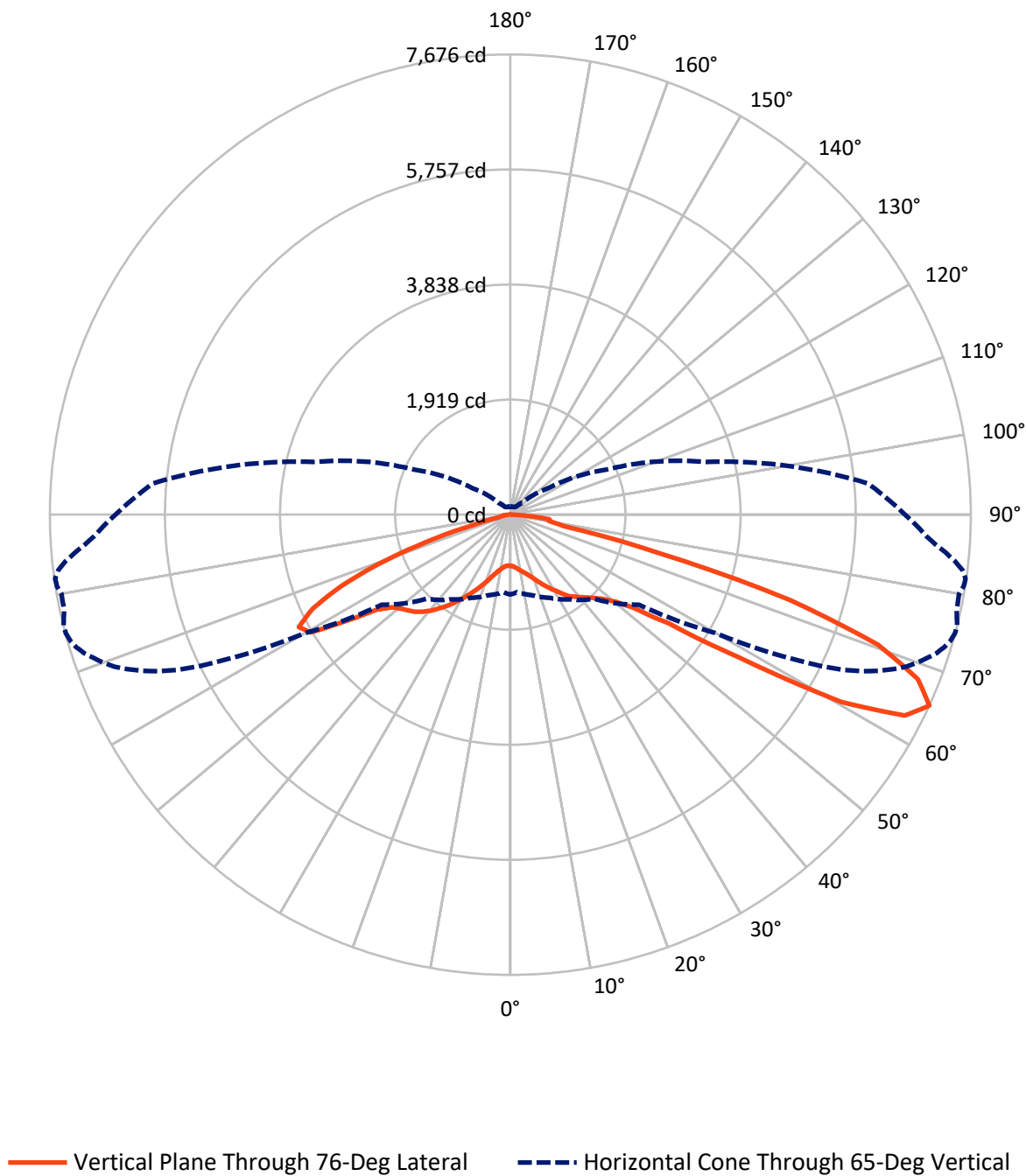


Based on 10 foot mounting height. Maximum calculated value = 10.4 fc
 Type II - Short - Semi-Cutoff

REPORT NUMBER: P154403

CATALOG NUMBER: VXS-F04-LED-E1-T2-8030

Luminous Intensity Polar Plot



REPORT NUMBER: P154403

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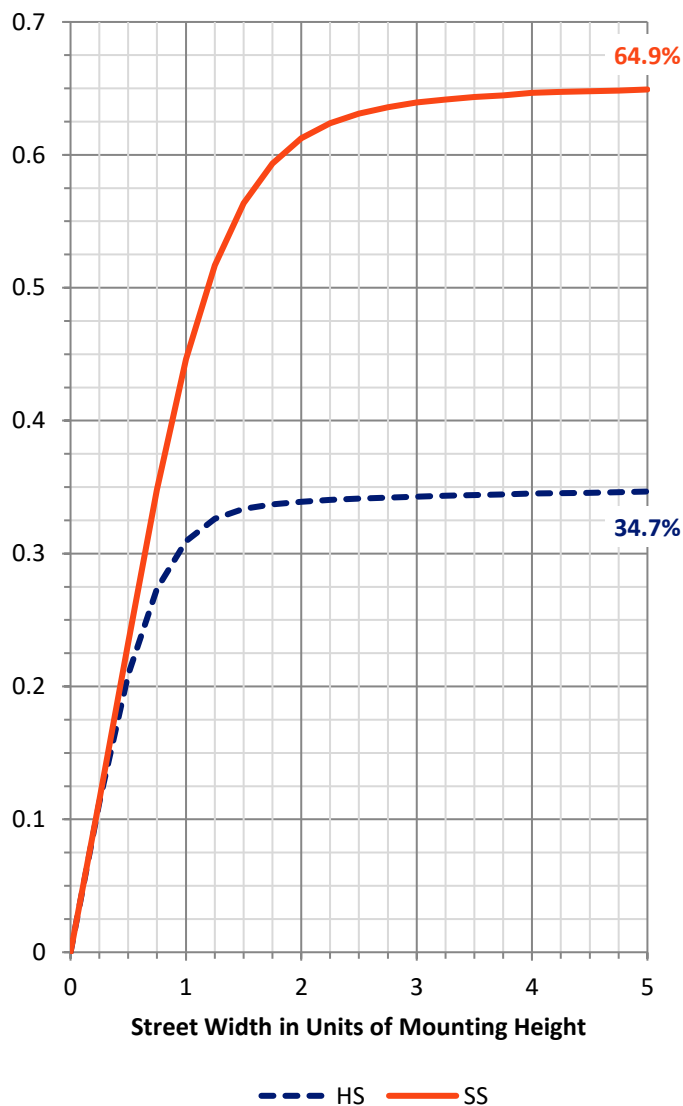
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2990.1	0.0	2990.1
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	5548.7	0.0	5548.7
	% Fixture	65.0	0.0	65.0
Total	Lumens	8538.8	0.0	8538.8
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	85.5	1.0
10°-20°	293.6	3.4
20°-30°	576.9	6.8
30°-40°	958.5	11.2
40°-50°	1408.5	16.5
50°-60°	1950.0	22.8
60°-70°	2327.5	27.3
70°-80°	823.1	9.6
80°-90°	115.0	1.3
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°	8538.8	100.0
0°-180°	8538.8	100.0

Coefficient of Utilization



REPORT NUMBER: P154403

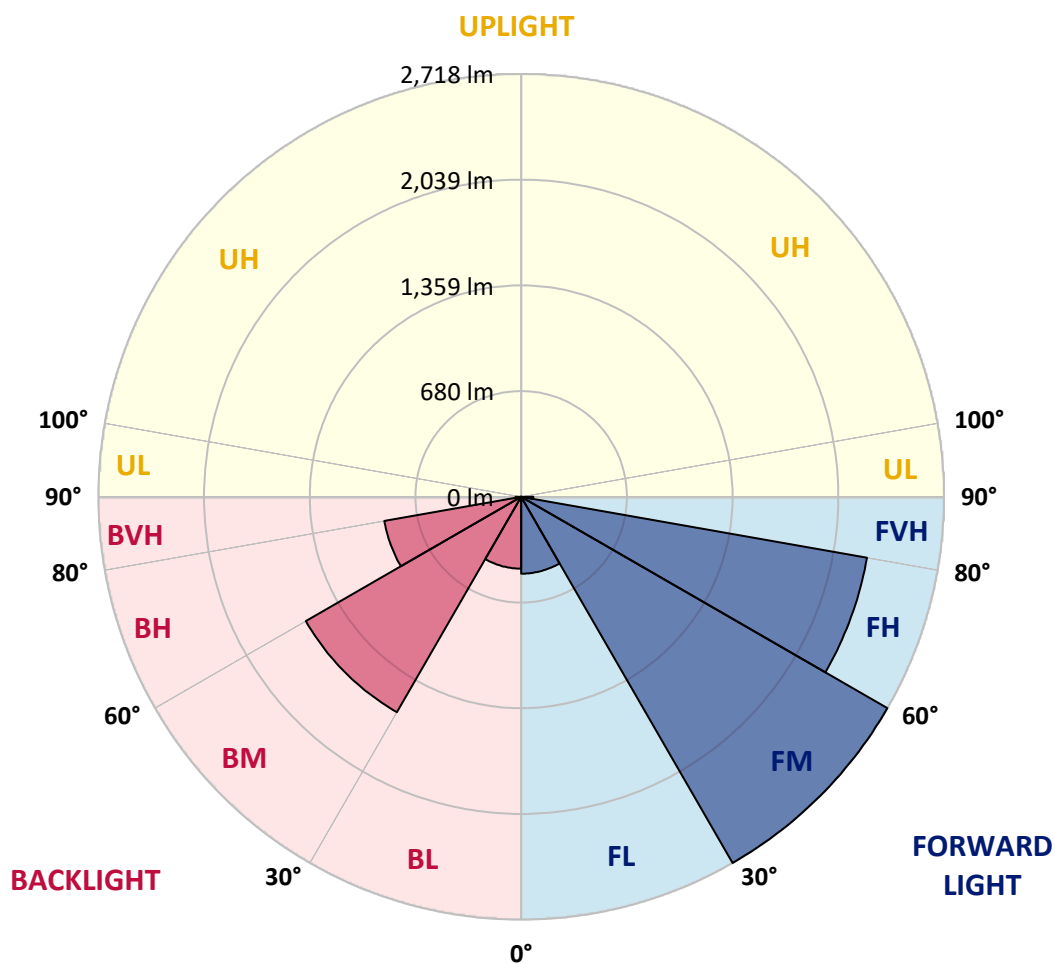
CATALOG NUMBER: VXS-F04-LED-E1-T2-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	494.1	5.8			
FM	(30°-60°)	2718.5	31.8			
FH	(60°-80°)	2257.6	26.4			G2/5000
FVH	(80°-90°)	78.6	0.9			G1/100
BL	(0°-30°)	461.9	5.4	B1/500		
BM	(30°-60°)	1598.6	18.7	B2/2500		
BH	(60°-80°)	893.1	10.5	B2/1000		G2/1000
BVH	(80°-90°)	36.4	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



REPORT NUMBER: P154403

CATALOG NUMBER: VXS-F04-LED-E1-T2-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	890.9	891.8	889.9	889.0	886.2	881.6	877.9	874.2	874.2	874.2	871.4
5°	929.9	931.8	928.1	925.3	916.9	912.2	905.8	901.1	899.3	898.3	895.5
7.5°	979.2	976.4	970.8	968.9	962.4	952.2	940.1	930.9	930.9	929.9	930.9
10°	1028.4	1020.9	1018.1	1015.3	1005.2	992.1	978.2	968.0	967.0	966.1	963.3
12.5°	1077.6	1074.8	1072.0	1061.9	1051.6	1031.2	1015.3	1005.2	1004.2	1005.2	1001.5
15°	1142.7	1136.2	1133.4	1115.8	1093.4	1071.1	1051.6	1042.3	1039.5	1040.4	1037.7
17.5°	1192.8	1192.8	1186.3	1166.8	1138.0	1107.4	1086.9	1081.3	1080.4	1080.4	1081.3
20°	1232.7	1231.8	1225.3	1209.5	1175.1	1144.5	1134.3	1132.4	1131.5	1131.5	1134.3
22.5°	1255.0	1253.2	1250.4	1232.7	1205.8	1185.4	1186.3	1191.9	1193.8	1195.6	1199.3
25°	1266.2	1263.4	1262.5	1250.4	1230.9	1228.1	1244.9	1259.7	1263.4	1267.2	1271.8
27.5°	1284.8	1280.1	1282.0	1277.3	1272.7	1281.0	1315.4	1331.2	1334.0	1338.7	1341.5
30°	1335.9	1334.0	1341.5	1343.3	1347.0	1359.1	1390.7	1405.6	1412.0	1412.0	1425.1
32.5°	1433.4	1434.3	1436.2	1455.8	1462.2	1470.6	1487.3	1499.4	1500.3	1501.2	1513.3
35°	1564.4	1569.9	1585.8	1602.5	1618.2	1617.3	1607.2	1613.7	1609.0	1614.6	1615.5
37.5°	1729.7	1722.3	1745.6	1783.6	1807.8	1801.2	1755.8	1726.0	1734.4	1730.7	1727.9
40°	1857.0	1865.4	1909.9	1960.1	1978.8	1999.2	1939.7	1888.6	1881.1	1867.3	1858.9
42.5°	2032.6	2033.6	2069.7	2106.9	2160.8	2205.4	2167.4	2093.9	2071.6	2054.9	2018.7
45°	2195.2	2192.4	2222.1	2267.7	2331.7	2395.9	2409.7	2329.8	2321.6	2291.8	2244.5
47.5°	2303.8	2300.2	2320.6	2380.0	2484.1	2589.1	2646.6	2622.5	2606.7	2594.6	2520.3
50°	2377.3	2369.8	2393.1	2456.3	2572.3	2734.0	2884.5	2905.0	2898.4	2898.4	2851.1
52.5°	2432.0	2432.0	2448.8	2499.9	2617.8	2819.5	3088.9	3192.0	3200.3	3209.6	3206.8
55°	2401.5	2406.0	2447.9	2522.2	2646.6	2878.9	3257.9	3483.6	3530.2	3569.1	3613.8
57.5°	2296.5	2312.2	2368.0	2489.6	2654.1	2923.5	3445.6	3892.4	4023.4	4136.8	4313.3
60°	2143.1	2163.6	2244.5	2399.6	2599.3	2851.1	3511.5	4238.0	4446.1	4693.2	5154.0
62.5°	1880.2	1900.7	1979.7	2134.8	2305.7	2573.3	3238.4	4289.1	4621.7	4971.9	5668.6
65°	1332.1	1299.7	1390.7	1530.1	1726.0	1985.2	2616.9	3946.3	4424.8	4899.5	5759.7
67.5°	742.3	739.5	795.2	899.3	1086.9	1365.6	1803.1	3026.6	3466.9	4004.9	5061.0
70°	511.9	517.4	552.7	665.2	820.3	1060.9	1284.8	1900.7	2217.5	2582.6	3621.1
72.5°	359.5	371.6	391.1	458.0	616.9	893.7	1312.6	1136.2	1294.1	1543.0	2177.5
75°	210.9	219.3	233.2	265.7	351.2	597.3	1359.1	998.7	998.7	1057.2	1317.3
77.5°	130.1	130.1	138.4	151.4	186.7	292.6	968.0	1122.2	1090.7	1057.2	1060.0
80°	66.8	71.5	83.6	90.2	104.0	133.8	434.7	1046.9	1148.2	1216.1	1168.7
82.5°	30.7	34.4	51.1	54.8	60.4	70.6	149.5	595.4	798.0	1050.7	1312.6
85°	15.8	15.8	26.9	33.5	36.3	32.5	54.8	240.6	364.1	555.5	869.5
87.5°	2.8	2.8	4.7	5.6	8.4	7.5	9.3	13.9	23.2	25.1	26.0
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: P154403

CATALOG NUMBER: VXS-F04-LED-E1-T2-8030

CANDELA DISTRIBUTION (continued):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	870.5	871.4	870.5	869.5	867.7	867.7	867.7	866.7	866.7	866.7	865.8
5°	895.5	891.8	892.7	890.9	889.9	889.0	889.9	888.1	886.2	887.2	886.2
7.5°	927.2	925.3	921.6	921.6	920.6	918.8	918.8	916.0	915.0	913.2	912.2
10°	962.4	957.8	959.6	957.8	958.8	955.0	953.2	951.3	949.4	949.4	950.4
12.5°	998.7	997.7	994.9	993.1	993.1	990.3	991.2	990.3	987.5	986.5	983.8
15°	1035.9	1035.9	1033.1	1034.0	1033.1	1031.2	1029.3	1029.3	1027.5	1025.6	1026.5
17.5°	1079.5	1079.5	1079.5	1079.5	1080.4	1077.6	1078.5	1076.7	1074.8	1078.5	1078.5
20°	1136.2	1139.9	1139.9	1139.0	1143.6	1140.8	1139.9	1144.5	1139.9	1146.3	1145.4
22.5°	1201.1	1204.9	1204.9	1208.6	1209.5	1212.3	1214.2	1212.3	1216.1	1219.8	1219.8
25°	1273.7	1277.3	1280.1	1285.7	1288.5	1286.6	1287.6	1292.2	1294.1	1297.8	1301.5
27.5°	1349.8	1350.8	1354.4	1360.9	1365.6	1367.5	1368.4	1375.9	1376.8	1378.7	1382.3
30°	1424.1	1433.4	1431.6	1439.9	1442.7	1445.5	1451.1	1453.9	1460.3	1464.0	1464.0
32.5°	1511.5	1509.6	1517.0	1523.5	1528.2	1532.8	1537.5	1541.1	1544.9	1546.7	1556.1
35°	1620.1	1623.8	1623.8	1624.8	1636.0	1636.9	1640.6	1648.9	1651.7	1657.3	1661.0
37.5°	1727.9	1721.5	1720.5	1720.5	1716.8	1719.6	1720.5	1721.5	1725.1	1726.0	1729.7
40°	1848.7	1840.3	1832.8	1828.2	1820.8	1810.6	1808.7	1804.0	1806.8	1805.9	1806.8
42.5°	2014.0	1990.8	1973.2	1960.1	1945.3	1934.1	1925.8	1913.7	1905.4	1895.1	1893.3
45°	2224.9	2181.2	2151.5	2130.2	2108.8	2078.1	2060.5	2041.9	2025.2	2008.5	1994.5
47.5°	2501.8	2455.3	2407.9	2368.9	2335.4	2286.2	2236.1	2208.2	2175.6	2146.8	2126.4
50°	2827.8	2772.1	2749.7	2694.9	2653.2	2578.9	2516.6	2471.1	2406.0	2362.4	2324.4
52.5°	3161.3	3147.4	3135.3	3088.9	3039.6	2996.9	2942.1	2862.2	2796.3	2746.1	2668.1
55°	3615.5	3622.1	3617.4	3592.3	3574.7	3533.9	3511.5	3441.9	3412.1	3339.7	3257.9
57.5°	4380.1	4432.1	4498.1	4524.1	4559.5	4526.0	4565.0	4612.4	4494.4	4535.2	4461.9
60°	5356.5	5595.2	5737.4	5912.0	6026.3	6186.1	6214.9	6256.7	6244.6	6267.9	6315.2
62.5°	5953.0	6236.3	6508.4	6706.3	6918.1	7035.1	7176.4	7274.8	7377.0	7445.8	7426.3
65°	6128.5	6420.2	6667.3	6883.7	7073.3	7216.4	7347.4	7470.9	7564.7	7630.7	7669.6
67.5°	5483.7	5864.7	6124.8	6378.3	6622.7	6773.2	6882.8	7002.7	7140.1	7254.4	7276.7
70°	4126.5	4697.8	5066.6	5370.5	5657.5	5860.0	6013.3	6124.8	6231.6	6313.4	6402.5
72.5°	2580.7	3080.5	3502.3	3896.2	4200.8	4479.6	4608.7	4855.8	4823.3	4885.5	4952.4
75°	1546.7	1790.2	2022.4	2300.2	2459.9	2692.2	2734.0	2774.8	2753.5	2683.8	2735.9
77.5°	1074.8	1114.8	1113.0	1097.1	1080.4	1039.5	986.5	957.8	938.2	910.4	921.6
80°	1081.3	994.9	863.0	725.5	599.2	515.5	482.2	482.2	516.5	565.7	615.0
82.5°	1292.2	1200.2	1070.2	895.5	709.7	577.8	489.5	454.3	460.7	511.0	574.1
85°	871.4	891.8	782.2	715.3	566.6	441.2	369.7	300.1	265.7	274.1	310.3
87.5°	31.6	38.1	13.9	18.5	13.1	11.2	11.2	12.1	8.4	10.3	9.3
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: P154403

CATALOG NUMBER: VXS-F04-LED-E1-T2-8030

CANDELA DISTRIBUTION (continued):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	864.9	863.9	863.9	862.1	862.1	861.1	861.1	860.2	859.3	859.3	858.3
5°	885.3	884.4	882.5	881.6	879.8	879.8	878.9	877.0	877.0	875.1	874.2
7.5°	914.1	912.2	910.4	909.4	908.5	905.8	905.8	903.9	903.9	902.1	901.1
10°	948.5	946.6	944.8	945.7	942.9	942.0	940.1	940.1	937.3	936.4	936.4
12.5°	985.7	984.8	984.8	982.0	981.0	980.1	976.4	976.4	976.4	974.5	975.4
15°	1025.6	1026.5	1023.7	1026.5	1025.6	1022.8	1022.8	1022.8	1019.1	1023.7	1020.0
17.5°	1079.5	1082.3	1080.4	1081.3	1079.5	1079.5	1080.4	1079.5	1081.3	1081.3	1086.9
20°	1146.3	1147.3	1151.9	1150.1	1150.1	1149.1	1151.0	1151.9	1155.6	1153.8	1157.5
22.5°	1219.8	1224.4	1225.3	1229.0	1229.0	1228.1	1229.9	1233.7	1235.5	1238.3	1237.4
25°	1303.3	1306.1	1309.8	1305.2	1312.6	1312.6	1314.5	1319.2	1320.1	1320.1	1326.6
27.5°	1381.3	1388.8	1389.7	1394.4	1391.6	1393.5	1400.0	1402.8	1406.5	1406.5	1408.3
30°	1469.6	1472.4	1474.3	1479.9	1479.0	1479.9	1480.8	1485.4	1485.4	1490.1	1494.7
32.5°	1560.7	1562.6	1564.4	1569.9	1571.8	1575.5	1573.7	1577.4	1582.1	1583.0	1585.8
35°	1669.4	1671.2	1673.1	1681.5	1682.4	1688.9	1690.8	1688.9	1696.3	1691.7	1696.3
37.5°	1732.5	1740.9	1742.8	1748.3	1746.5	1751.1	1753.9	1757.6	1759.5	1763.2	1770.7
40°	1809.6	1812.4	1818.0	1820.8	1824.6	1825.5	1829.1	1831.9	1834.7	1843.1	1851.5
42.5°	1888.6	1892.3	1895.1	1898.9	1903.5	1907.2	1909.9	1918.3	1920.2	1925.8	1941.6
45°	1984.4	1982.5	1983.4	1984.4	1986.1	1990.8	1999.2	2007.6	2013.1	2026.1	2039.1
47.5°	2103.2	2091.1	2086.5	2079.1	2080.9	2091.1	2093.0	2106.9	2118.0	2130.2	2145.9
50°	2283.4	2250.9	2231.4	2211.9	2210.1	2215.6	2223.0	2237.9	2250.9	2266.7	2289.0
52.5°	2586.3	2524.0	2485.0	2431.2	2416.3	2413.5	2407.9	2416.3	2420.0	2441.3	2483.2
55°	3199.4	3084.2	3009.9	2926.3	2848.3	2825.1	2780.4	2789.7	2780.4	2793.5	2855.6
57.5°	4479.6	4387.6	4315.1	4208.3	4074.5	3932.3	3897.1	3751.2	3780.0	3863.6	3809.7
60°	6338.4	6305.0	6253.0	6201.9	6018.9	5915.8	5747.6	5729.0	5611.1	5612.0	5534.8
62.5°	7378.9	7421.7	7390.1	7375.1	7365.0	7332.4	7248.8	7148.5	6998.0	6889.3	6729.5
65°	7676.2	7639.9	7605.6	7600.9	7598.1	7651.1	7663.2	7592.5	7456.0	7286.9	7103.0
67.5°	7329.6	7309.2	7311.1	7272.0	7296.2	7388.2	7452.3	7432.7	7307.4	7103.0	6868.9
70°	6504.8	6464.8	6505.7	6556.8	6593.0	6645.9	6710.1	6725.8	6611.6	6401.7	6162.9
72.5°	4870.7	4877.1	4916.2	4930.1	5076.0	5061.0	5118.7	4931.0	4848.4	4648.6	4526.0
75°	2563.1	2521.2	2629.9	2399.6	2304.8	2370.8	2185.9	2008.5	2045.6	2076.3	1855.1
77.5°	905.8	847.3	747.9	707.9	589.0	498.9	407.8	367.9	346.5	335.3	321.5
80°	650.3	668.9	648.4	600.1	510.1	408.7	322.4	254.5	218.3	198.8	185.8
82.5°	657.7	731.1	763.6	749.6	668.0	505.4	333.5	212.7	157.9	131.9	122.6
85°	353.1	386.4	371.6	313.1	281.5	168.2	115.2	77.1	65.1	59.5	54.8
87.5°	13.9	11.2	9.3	9.3	10.3	11.2	9.3	10.3	9.3	9.3	9.3
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: P154403

CATALOG NUMBER: VXS-F04-LED-E1-T2-8030

CANDELA DISTRIBUTION (continued):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8	853.8
2.5°	856.5	856.5	856.5	855.5	853.8	849.1	844.5	840.7	837.9	835.1	831.4
5°	873.3	871.4	871.4	871.4	863.9	856.5	850.1	843.5	837.9	833.3	829.5
7.5°	901.1	900.2	896.5	895.5	889.9	877.9	870.5	859.3	852.8	846.3	844.5
10°	934.5	933.6	932.7	931.8	924.4	912.2	903.0	892.7	883.4	874.2	864.9
12.5°	973.6	972.6	971.7	968.9	966.1	959.6	949.4	938.2	927.2	907.6	897.4
15°	1021.9	1023.7	1021.9	1020.9	1019.1	1020.0	1013.5	997.7	980.1	955.0	933.6
17.5°	1086.0	1084.1	1083.2	1086.9	1086.0	1090.7	1088.8	1068.3	1041.3	1001.5	964.2
20°	1156.6	1156.6	1160.3	1163.1	1171.4	1183.5	1177.9	1152.8	1103.6	1047.9	999.6
22.5°	1241.1	1243.0	1246.7	1244.9	1257.8	1277.3	1279.2	1243.9	1179.8	1102.7	1034.9
25°	1329.3	1331.2	1327.6	1333.1	1354.4	1382.3	1387.9	1337.7	1253.2	1152.8	1064.7
27.5°	1413.0	1414.8	1414.8	1422.3	1442.7	1490.1	1495.6	1439.9	1327.6	1196.5	1086.0
30°	1494.7	1502.2	1504.0	1505.9	1536.6	1602.5	1614.6	1533.8	1392.5	1229.0	1100.8
32.5°	1597.8	1600.6	1604.4	1609.0	1644.2	1725.1	1725.1	1614.6	1434.3	1249.4	1103.6
35°	1708.4	1709.3	1717.7	1718.7	1768.8	1849.6	1833.8	1681.5	1464.0	1244.9	1083.2
37.5°	1775.2	1779.0	1787.4	1798.5	1851.5	1965.7	1929.5	1739.1	1469.6	1214.2	1036.8
40°	1857.9	1865.4	1873.8	1884.9	1963.8	2083.7	2010.4	1775.2	1446.4	1153.8	967.0
42.5°	1947.2	1957.4	1970.4	1990.8	2084.7	2187.8	2071.6	1780.8	1393.5	1086.0	884.4
45°	2047.5	2066.0	2080.9	2105.1	2211.0	2277.8	2108.8	1748.3	1326.6	996.8	796.2
47.5°	2163.6	2178.4	2204.5	2230.5	2336.4	2339.2	2112.5	1685.2	1235.5	907.6	702.3
50°	2306.6	2316.0	2354.9	2370.8	2470.2	2403.3	2085.6	1599.7	1139.9	807.3	598.2
52.5°	2497.1	2510.2	2560.3	2584.5	2655.0	2490.6	2047.5	1506.8	1030.3	694.9	491.4
55°	2873.4	2930.1	2965.3	3007.2	3052.6	2688.5	2030.8	1407.4	906.7	564.9	389.2
57.5°	3929.6	3911.0	3989.0	4083.8	4082.9	3140.9	2131.1	1322.0	760.8	432.0	299.2
60°	5503.3	5520.9	5481.0	5537.6	5357.4	3702.0	2268.6	1231.8	596.4	321.5	228.5
62.5°	6672.8	6570.7	6514.0	6447.2	6050.5	3763.3	2168.3	1046.9	433.8	225.7	175.5
65°	6949.7	6829.8	6708.2	6580.9	5982.6	3392.6	1779.0	768.3	280.5	155.1	139.4
67.5°	6676.6	6484.2	6329.1	6198.1	5481.9	2812.0	1300.6	471.9	160.7	125.4	118.9
70°	5968.7	5756.0	5505.2	5358.3	4616.1	2072.5	833.3	254.5	123.5	111.5	108.7
72.5°	4369.0	4194.3	3920.3	3752.1	3314.6	1259.7	465.4	143.1	115.2	106.8	103.1
75°	1701.9	1610.9	1496.6	1505.9	1344.2	557.4	210.9	123.5	112.4	105.0	101.2
77.5°	292.6	285.2	263.8	263.8	300.1	203.4	140.3	124.5	111.5	103.1	96.6
80°	175.5	171.8	163.5	161.7	156.1	143.1	134.7	126.3	109.6	97.5	89.2
82.5°	115.2	110.6	107.8	106.8	116.2	125.4	126.3	125.4	104.0	84.6	72.4
85°	49.2	49.2	49.2	50.2	66.8	101.2	104.0	111.5	85.5	65.9	52.0
87.5°	8.4	10.3	10.3	11.2	12.1	22.3	27.9	36.3	28.8	27.9	25.1
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: P154403

CATALOG NUMBER: VXS-F04-LED-E1-T2-8030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	853.8	853.8	853.8
2.5°	830.5	828.6	828.6
5°	827.8	825.9	826.8
7.5°	838.9	835.1	836.1
10°	859.3	855.5	853.8
12.5°	885.3	880.7	880.7
15°	912.2	901.1	900.2
17.5°	934.5	920.6	918.8
20°	959.6	941.0	938.2
22.5°	982.9	957.8	954.1
25°	999.6	968.9	964.2
27.5°	1007.0	970.8	967.0
30°	1012.5	971.7	966.1
32.5°	1007.0	963.3	958.8
35°	976.4	929.0	926.2
37.5°	923.4	870.5	866.7
40°	853.8	798.0	788.7
42.5°	764.6	712.5	702.3
45°	678.1	618.7	614.1
47.5°	585.3	528.6	531.4
50°	487.7	436.6	435.6
52.5°	394.8	350.3	347.5
55°	311.2	279.6	276.8
57.5°	246.2	229.4	226.6
60°	200.6	192.3	189.5
62.5°	161.7	158.9	157.9
65°	134.7	134.7	134.7
67.5°	117.1	118.0	118.0
70°	107.8	108.7	107.8
72.5°	104.0	106.8	106.8
75°	101.2	103.1	99.4
77.5°	99.4	100.3	93.8
80°	98.4	97.5	85.5
82.5°	85.5	82.7	72.4
85°	78.0	59.5	50.2
87.5°	39.9	27.9	21.3
90°	0.0	0.0	0.0

(END OF REPORT)