

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: P149879

Luminaire Tested: **VXS-E03-LED-E1-SL2-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149879
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33678)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: VXS-E03-LED-E1-SL2-7030
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (63) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8371.1 lumens
Efficiency: N/A
Efficacy: 111.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B2 - U0 - G2

Input Watts (W): 75.2
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

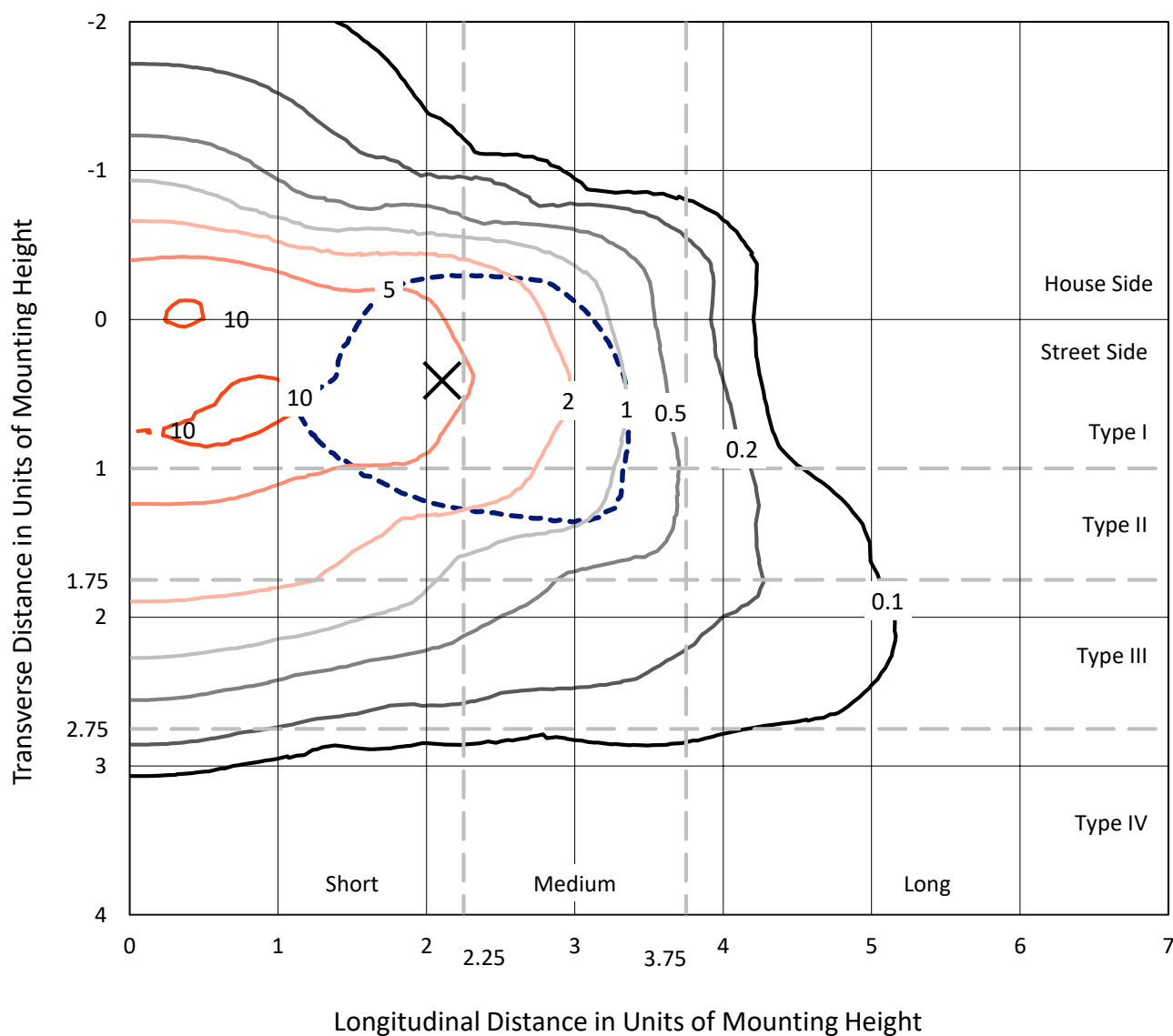


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

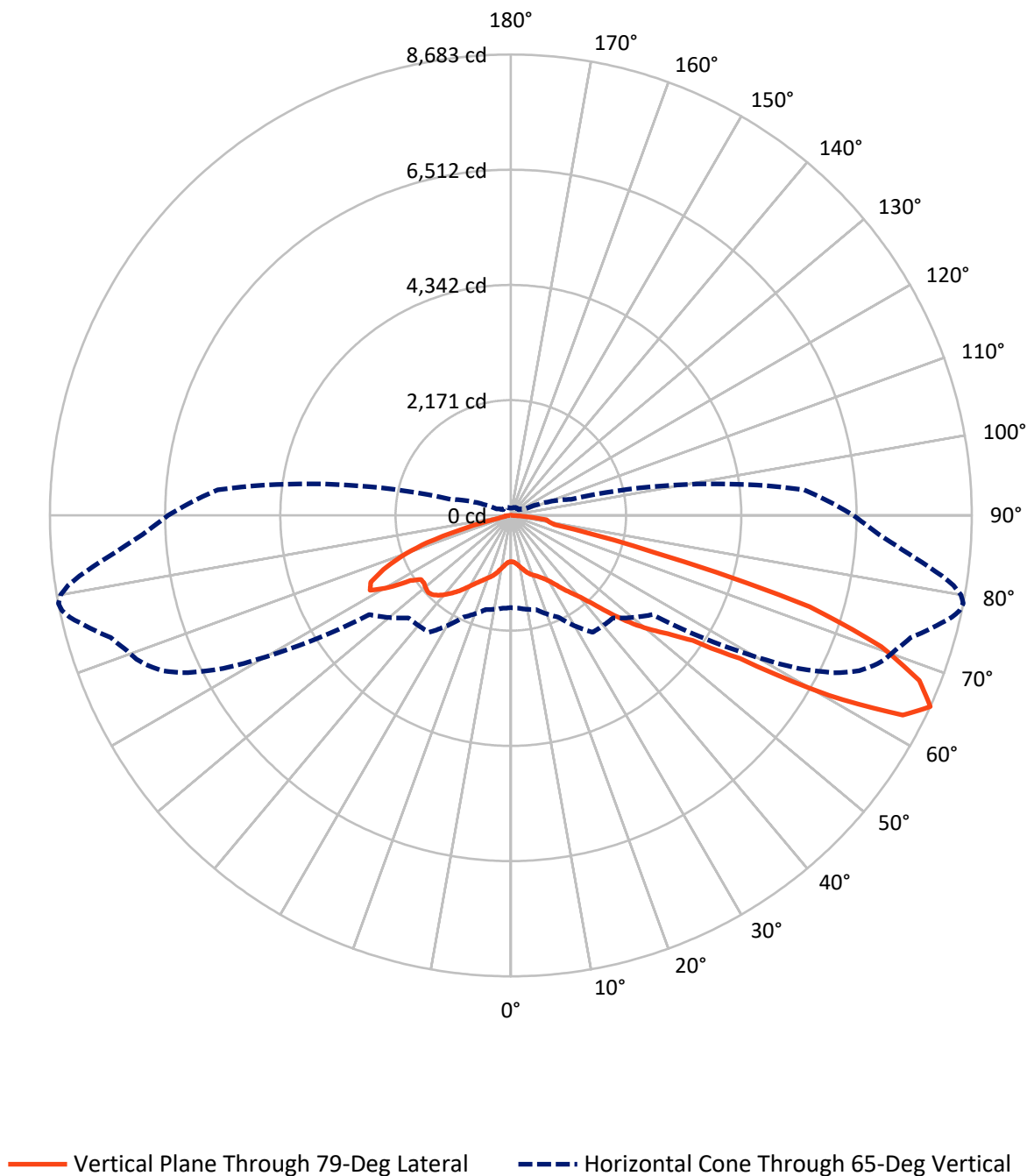


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1978.9	0.0	1978.9
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	6392.2	0.0	6392.2
	% Fixture	76.4	0.0	76.4
Total	Lumens	8371.1	0.0	8371.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	86.6	1.0
10°-20°	283.2	3.4
20°-30°	489.2	5.8
30°-40°	809.8	9.7
40°-50°	1373.3	16.4
50°-60°	1824.7	21.8
60°-70°	2357.0	28.2
70°-80°	988.5	11.8
80°-90°	158.8	1.9
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°	8371.1	100.0
0°-180°	8371.1	100.0

Coefficient of Utilization



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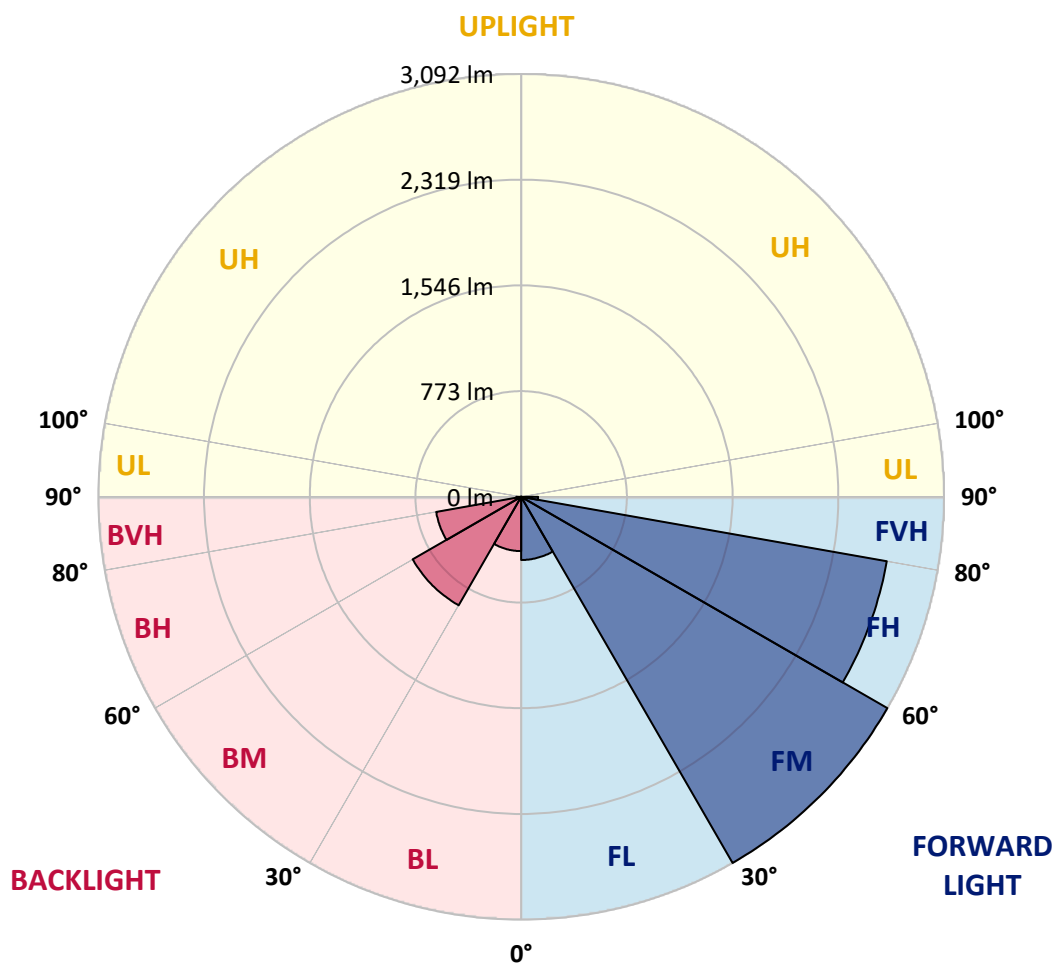
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	461.9	5.5			
FM	(30°-60°)	3091.7	36.9			
FH	(60°-80°)	2714.5	32.4			G2/5000
FVH	(80°-90°)	124.2	1.5			G2/225
BL	(0°-30°)	397.1	4.7	B1/500		
BM	(30°-60°)	916.0	10.9	B1/1000		
BH	(60°-80°)	631.1	7.5	B2/1000		G2/1000
BVH	(80°-90°)	34.6	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



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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3
2.5°	868.6	871.3	869.5	871.3	873.2	874.1	875.9	875.0	875.0	875.9	874.1
5°	868.6	868.6	871.3	875.9	877.7	883.2	889.6	888.7	889.6	888.7	890.5
7.5°	886.8	885.9	888.7	894.2	896.0	904.2	915.1	917.0	918.9	918.9	921.6
10°	918.9	917.9	920.6	923.4	926.1	932.5	948.1	954.4	955.3	956.3	959.9
12.5°	959.1	958.1	954.4	954.4	953.6	965.4	986.4	998.3	1000.1	1003.7	1006.5
15°	987.4	984.6	979.1	975.4	980.0	999.2	1030.3	1043.9	1045.8	1048.5	1055.9
17.5°	1014.7	1012.0	1000.1	991.0	997.4	1028.4	1070.5	1085.1	1088.7	1091.5	1099.7
20°	1053.1	1051.3	1033.9	1012.0	1010.2	1050.4	1101.5	1120.7	1123.4	1127.0	1135.3
22.5°	1111.5	1103.3	1083.2	1042.2	1022.1	1063.1	1123.4	1149.9	1153.6	1157.2	1168.2
25°	1184.7	1180.9	1146.2	1083.2	1041.2	1076.0	1147.2	1180.0	1185.5	1190.1	1204.7
27.5°	1260.4	1254.9	1217.5	1135.3	1075.0	1101.5	1184.7	1222.1	1229.3	1236.7	1250.4
30°	1328.0	1326.2	1295.1	1205.6	1129.8	1149.9	1244.9	1290.6	1298.8	1307.9	1320.7
32.5°	1486.9	1487.9	1455.9	1364.6	1262.3	1237.6	1331.7	1400.2	1403.8	1414.8	1437.6
35°	1791.1	1794.7	1782.9	1710.7	1595.6	1494.2	1503.4	1571.0	1574.6	1583.7	1605.7
37.5°	1994.7	2002.1	2038.5	2061.5	2003.0	1956.4	1840.4	1813.9	1816.7	1811.2	1806.6
40°	2107.2	2118.0	2214.0	2332.7	2396.6	2397.5	2347.4	2230.4	2185.6	2172.8	2118.0
42.5°	2171.0	2189.3	2325.4	2528.2	2711.7	2837.8	2868.8	2739.2	2706.2	2647.8	2542.8
45°	2213.1	2234.9	2395.8	2673.4	2943.7	3158.3	3320.0	3262.5	3240.5	3205.0	3108.1
47.5°	2205.7	2223.1	2390.3	2722.7	3065.2	3370.3	3657.1	3716.4	3689.9	3680.8	3615.0
50°	2072.4	2087.9	2257.8	2600.3	2998.5	3450.7	3870.8	4038.9	4038.9	4056.2	4036.1
52.5°	1929.9	1942.7	2097.1	2404.9	2783.0	3372.1	3989.5	4268.1	4304.7	4334.7	4382.3
55°	1876.1	1891.5	2008.5	2271.5	2599.4	3147.4	4029.7	4439.8	4507.4	4558.5	4666.3
57.5°	1901.6	1917.1	2000.2	2199.4	2491.6	2918.1	4031.5	4670.9	4801.5	4906.5	5124.8
60°	2012.1	2026.7	2096.2	2266.0	2463.3	2785.7	3953.9	5039.0	5247.2	5444.5	5808.0
62.5°	1960.9	1979.3	2080.6	2376.6	2674.3	2685.3	3673.5	5323.9	5659.1	5950.5	6528.6
65°	1737.2	1756.4	1835.9	2112.5	2687.0	2729.1	3257.9	5329.4	5745.9	6139.6	6763.3
67.5°	1318.9	1326.2	1389.2	1611.2	2149.1	2777.5	2830.5	4698.2	5094.7	5534.0	6177.9
70°	674.1	686.8	705.1	889.6	1383.7	2295.2	2432.2	3462.5	3967.6	4421.6	5195.1
72.5°	233.8	238.3	256.7	339.8	674.1	1506.1	2129.0	2372.8	2677.9	3102.7	3998.7
75°	140.6	140.6	147.0	171.7	307.8	784.6	1894.3	1938.1	1979.3	2121.8	2708.1
77.5°	111.4	113.3	113.3	117.8	170.8	402.8	1438.5	1802.1	1807.6	1821.2	1919.9
80°	79.5	83.1	90.5	94.1	110.5	221.0	807.4	1582.0	1689.7	1741.8	1813.9
82.5°	59.4	63.0	76.7	81.2	85.9	123.3	362.6	1091.5	1287.9	1391.9	1645.9
85°	26.5	31.1	52.0	57.5	60.3	65.8	169.8	310.6	357.1	400.9	528.8
87.5°	4.6	4.6	8.2	11.9	17.3	16.5	37.4	53.0	53.9	63.0	70.4
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3
2.5°	874.1	874.1	874.1	873.2	874.1	874.1	874.1	874.1	875.0	875.0	875.0
5°	893.3	891.4	892.3	892.3	892.3	891.4	893.3	892.3	893.3	896.0	895.1
7.5°	921.6	923.4	924.4	925.2	925.2	925.2	926.1	928.0	928.0	930.7	929.7
10°	963.6	962.7	963.6	966.3	969.0	969.9	972.7	971.8	973.7	977.3	980.9
12.5°	1008.3	1010.2	1013.0	1015.6	1020.2	1021.1	1023.8	1024.8	1030.3	1030.3	1033.9
15°	1058.5	1059.5	1065.0	1065.9	1071.4	1073.2	1077.7	1079.6	1086.0	1086.8	1090.6
17.5°	1104.2	1106.1	1108.8	1111.5	1117.9	1120.7	1124.4	1128.0	1133.5	1135.3	1141.7
20°	1140.7	1144.5	1145.4	1150.8	1156.3	1160.0	1163.6	1167.3	1172.7	1175.4	1181.9
22.5°	1173.7	1177.3	1180.0	1184.7	1188.3	1193.8	1195.5	1202.0	1207.5	1212.0	1217.5
25°	1209.3	1214.7	1217.5	1225.7	1228.5	1233.9	1238.5	1244.9	1252.2	1257.7	1265.0
27.5°	1259.5	1267.8	1271.4	1280.5	1286.9	1289.6	1297.0	1306.1	1312.4	1318.9	1326.2
30°	1328.9	1344.5	1347.2	1353.6	1365.5	1367.3	1376.4	1383.7	1393.8	1400.2	1406.5
32.5°	1436.7	1455.9	1457.7	1465.0	1475.0	1478.8	1486.0	1494.2	1509.7	1512.5	1522.6
35°	1602.0	1610.3	1617.5	1620.3	1628.5	1633.1	1638.5	1647.7	1663.2	1661.3	1672.3
37.5°	1800.2	1803.0	1803.8	1794.7	1796.6	1788.3	1798.3	1800.2	1805.7	1810.3	1821.2
40°	2083.3	2055.0	2051.4	2029.4	2007.6	1995.6	1991.1	1972.8	1977.4	1979.3	1988.4
42.5°	2497.1	2442.3	2396.6	2365.6	2311.7	2285.2	2249.5	2221.2	2199.4	2207.6	2211.2
45°	3021.3	2942.8	2869.7	2774.7	2704.5	2654.2	2591.2	2534.5	2509.0	2497.1	2511.7
47.5°	3544.7	3475.3	3389.4	3291.7	3180.3	3097.2	2992.1	2899.9	2836.0	2812.2	2825.0
50°	3996.8	3932.8	3868.1	3810.5	3680.8	3590.4	3446.9	3327.4	3226.8	3175.8	3162.0
52.5°	4372.2	4338.4	4303.7	4255.3	4151.2	4060.7	3946.6	3828.8	3695.4	3591.3	3555.6
55°	4707.4	4727.5	4710.2	4711.1	4669.9	4612.4	4515.6	4427.9	4334.7	4216.9	4167.7
57.5°	5196.1	5314.8	5338.5	5397.9	5427.2	5458.1	5485.6	5433.5	5409.7	5322.1	5323.0
60°	5966.0	6139.6	6290.3	6427.3	6539.6	6649.2	6764.2	6815.4	6872.0	6898.5	6988.9
62.5°	6785.3	6950.6	7175.2	7358.9	7462.1	7604.6	7729.6	7811.0	7910.6	8016.5	8154.4
65°	6988.1	7187.2	7328.7	7451.1	7553.4	7629.2	7697.7	7794.5	7877.6	8045.7	8208.3
67.5°	6468.4	6627.3	6757.0	6877.5	6957.0	7020.9	7082.1	7146.0	7288.5	7441.0	7604.6
70°	5552.2	5744.0	5958.7	6114.9	6154.2	6208.9	6267.5	6350.6	6421.8	6581.6	6705.8
72.5°	4460.8	4736.7	4918.3	5134.8	5181.5	5264.6	5297.4	5362.3	5375.0	5461.9	5494.7
75°	3109.0	3425.1	3607.8	3766.6	3797.7	3752.0	3770.3	3541.0	3482.6	3435.1	3396.8
77.5°	2052.3	2137.2	2166.4	2140.9	2018.5	1922.6	1820.3	1719.8	1730.8	1649.5	1507.0
80°	1824.9	1844.0	1817.6	1792.0	1721.7	1621.2	1528.9	1434.9	1388.3	1339.0	1265.9
82.5°	1775.5	1849.5	1857.7	1826.7	1771.0	1661.3	1549.9	1410.3	1291.5	1181.9	1070.5
85°	593.7	722.5	780.0	833.9	850.4	869.5	803.7	714.2	606.4	534.3	418.3
87.5°	75.9	94.1	108.7	93.2	108.7	127.9	92.2	103.2	104.1	64.9	48.4
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):

	76°	77°	78°	79°	80°	81°	82°	83°	84°	85°	86°
0°	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3
2.5°	875.9	875.0	875.0	875.0	874.1	875.0	875.0	875.0	875.0	875.0	874.1
5°	896.0	896.0	898.8	899.7	897.8	896.9	897.8	898.8	898.8	897.8	898.8
7.5°	933.5	934.4	936.2	939.0	937.1	938.0	939.0	938.0	940.7	941.7	940.7
10°	980.9	982.8	987.4	988.3	987.4	991.0	991.9	990.1	991.9	991.9	995.5
12.5°	1035.8	1037.6	1043.0	1044.9	1046.7	1047.6	1050.4	1051.3	1054.0	1055.9	1058.5
15°	1095.1	1096.9	1100.6	1106.9	1108.8	1110.7	1112.4	1117.9	1118.9	1122.5	1125.3
17.5°	1145.4	1148.1	1153.6	1158.1	1160.8	1165.4	1167.3	1173.7	1175.4	1180.9	1185.5
20°	1185.5	1190.1	1194.6	1200.1	1204.7	1210.2	1212.0	1218.4	1222.1	1224.8	1230.3
22.5°	1222.1	1227.6	1233.9	1240.3	1243.9	1251.3	1254.0	1256.8	1265.0	1268.6	1274.1
25°	1269.5	1275.0	1282.4	1290.6	1294.2	1303.3	1306.1	1310.7	1319.8	1323.4	1331.7
27.5°	1334.4	1341.8	1347.2	1355.4	1360.0	1366.3	1372.7	1378.2	1386.4	1391.9	1401.0
30°	1415.6	1421.1	1430.3	1436.7	1444.0	1453.2	1460.4	1465.9	1470.5	1478.8	1488.8
32.5°	1535.3	1536.3	1539.0	1554.5	1561.9	1569.1	1579.2	1583.7	1591.1	1599.3	1610.3
35°	1684.2	1692.4	1698.9	1706.1	1714.4	1722.6	1726.2	1739.9	1746.3	1757.3	1768.3
37.5°	1832.2	1833.1	1847.7	1852.2	1859.6	1867.8	1880.6	1894.3	1910.8	1921.7	1939.1
40°	1991.1	1998.4	2016.7	2025.8	2034.9	2055.0	2065.1	2087.0	2114.4	2129.9	2159.2
42.5°	2221.2	2232.2	2265.1	2279.7	2301.7	2334.5	2355.5	2385.7	2396.6	2434.1	2447.8
45°	2522.7	2556.5	2603.9	2635.0	2674.3	2709.9	2728.2	2741.9	2758.3	2787.6	2783.9
47.5°	2848.7	2892.5	2945.6	3009.5	3035.0	3077.1	3100.8	3127.4	3112.7	3105.4	3098.1
50°	3183.0	3234.2	3304.5	3362.1	3401.3	3426.8	3446.9	3443.3	3412.2	3395.9	3350.2
52.5°	3554.7	3584.9	3651.6	3700.9	3724.7	3730.2	3725.6	3698.1	3668.9	3616.9	3563.0
55°	4124.7	4111.0	4137.5	4160.3	4153.0	4178.5	4112.8	4087.3	4015.1	3947.5	3875.3
57.5°	5282.8	5301.0	5153.2	5086.4	5074.6	5098.3	4982.3	4967.7	4793.3	4771.3	4649.8
60°	6976.2	7065.7	6949.6	6884.9	6709.4	6651.9	6522.3	6468.4	6301.2	6166.0	5995.2
62.5°	8249.4	8330.7	8379.1	8286.8	8184.6	8033.8	7837.4	7620.1	7442.9	7235.5	7054.7
65°	8364.5	8528.9	8640.3	8683.2	8611.1	8445.7	8203.7	7929.7	7658.4	7398.1	7169.8
67.5°	7826.5	7973.6	8146.2	8300.5	8309.6	8201.9	7995.4	7716.9	7403.6	7082.1	6814.5
70°	6902.2	7086.7	7237.4	7400.0	7513.3	7451.1	7347.9	7092.1	6767.0	6516.8	6208.9
72.5°	5613.5	5691.1	5727.7	5887.5	5889.3	5776.1	5703.0	5561.3	5299.3	5122.1	4887.4
75°	3278.0	3107.3	2925.5	2767.5	2638.7	2584.8	2345.5	2305.3	2144.6	2045.0	1898.9
77.5°	1351.7	1199.3	1002.9	839.4	677.7	604.7	498.7	452.1	391.8	365.4	348.0
80°	1159.1	1014.7	866.7	725.2	599.2	473.2	368.1	285.9	224.7	190.9	177.2
82.5°	946.2	859.5	756.3	679.5	580.9	486.8	411.0	318.8	238.3	175.3	134.3
85°	341.6	280.4	225.6	207.4	165.3	136.1	114.2	97.7	80.4	63.9	56.6
87.5°	38.3	36.6	21.0	20.1	22.8	16.5	19.2	17.3	14.6	12.7	13.7
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):

	87°	88°	89°	90°	95°	105°	115°	125°	135°	145°	155°
0°	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3	871.3
2.5°	874.1	874.1	875.0	875.0	875.9	876.8	878.7	877.7	877.7	878.7	878.7
5°	898.8	901.5	900.5	900.5	900.5	901.5	902.4	898.8	895.1	891.4	889.6
7.5°	941.7	943.5	945.3	943.5	945.3	944.5	942.6	932.5	920.6	906.0	896.0
10°	997.4	997.4	999.2	998.3	1002.0	999.2	993.7	970.9	945.3	914.3	891.4
12.5°	1057.6	1064.0	1061.3	1062.2	1069.5	1062.2	1049.4	1015.6	969.9	919.8	879.6
15°	1128.9	1131.6	1133.5	1130.8	1135.3	1128.9	1106.1	1052.2	985.5	915.1	855.9
17.5°	1187.4	1188.3	1189.2	1191.0	1197.4	1190.1	1150.8	1077.7	989.1	894.2	815.6
20°	1233.1	1237.6	1241.2	1241.2	1250.4	1239.4	1187.4	1090.6	977.3	859.5	764.5
22.5°	1280.5	1284.1	1288.7	1289.6	1301.6	1290.6	1217.5	1087.8	946.2	810.2	705.1
25°	1339.0	1342.6	1346.3	1350.9	1367.3	1351.7	1247.7	1076.9	903.3	751.7	641.1
27.5°	1406.5	1414.8	1417.5	1424.9	1444.0	1420.3	1273.2	1060.4	855.9	684.1	573.6
30°	1497.0	1507.0	1510.7	1520.7	1547.3	1495.1	1287.9	1032.1	795.5	615.6	501.5
32.5°	1618.4	1632.1	1643.1	1654.1	1684.2	1570.1	1289.6	991.0	725.2	538.9	432.0
35°	1777.4	1798.3	1806.6	1813.9	1842.2	1651.3	1281.5	929.7	639.4	460.3	377.2
37.5°	1955.4	1976.5	1982.0	1985.6	1991.1	1720.7	1261.3	836.6	542.5	391.8	333.4
40°	2174.7	2193.0	2200.3	2194.8	2165.6	1774.6	1216.6	728.0	448.5	345.3	306.0
42.5°	2442.3	2469.7	2472.4	2447.8	2351.0	1804.8	1127.0	600.1	374.5	311.5	285.0
45°	2773.9	2772.0	2756.5	2739.2	2552.8	1793.0	1002.0	488.6	327.9	285.0	265.8
47.5°	3071.6	3040.5	3016.8	2965.7	2730.9	1723.5	840.3	404.7	299.6	264.9	249.3
50°	3315.4	3258.9	3208.6	3152.8	2863.3	1600.2	679.5	343.4	273.1	247.6	233.8
52.5°	3508.2	3439.7	3381.2	3326.4	2991.2	1463.2	557.1	298.7	247.6	230.2	216.5
55°	3809.5	3741.0	3647.9	3587.7	3186.6	1337.1	477.7	263.0	222.9	211.9	198.2
57.5°	4572.2	4511.9	4400.5	4244.4	3689.0	1289.6	433.0	235.6	202.8	196.4	185.4
60°	5903.9	5806.2	5660.9	5502.1	4710.2	1321.7	397.3	216.5	189.0	183.6	175.3
62.5°	6908.6	6736.9	6572.4	6425.4	5526.6	1320.7	350.8	201.9	179.1	176.3	168.1
65°	6949.6	6775.2	6609.9	6455.5	5545.0	1175.4	296.0	189.0	177.2	176.3	162.6
67.5°	6580.7	6391.6	6231.8	6037.2	5133.1	918.9	237.5	180.8	184.5	182.7	160.7
70°	5977.9	5731.3	5599.8	5408.0	4517.4	643.0	195.4	183.6	200.0	194.5	163.5
72.5°	4691.9	4505.6	4305.5	4172.2	3536.5	406.4	164.4	185.4	206.4	197.3	170.8
75°	1746.3	1796.6	1714.4	1685.2	1796.6	238.3	146.1	172.6	184.5	170.8	155.2
77.5°	352.5	337.0	319.7	316.1	408.3	147.0	134.3	149.7	141.6	125.1	126.0
80°	169.0	164.4	159.0	158.0	151.6	122.4	124.2	127.9	106.8	96.8	103.2
82.5°	112.3	105.9	104.1	100.5	102.3	109.6	117.8	109.6	82.2	76.7	93.2
85°	52.0	50.3	49.3	49.3	54.8	98.7	97.7	80.4	56.6	54.8	93.2
87.5°	12.7	12.7	13.7	12.7	14.6	29.2	25.6	24.7	21.0	23.7	43.8
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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CATALOG NUMBER: VXS-E03-LED-E1-SL2-7030

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	871.3	871.3	871.3
2.5°	877.7	878.7	877.7
5°	885.9	885.9	885.9
7.5°	885.9	883.2	882.3
10°	873.2	865.0	865.0
12.5°	851.2	837.5	835.8
15°	810.2	791.9	789.1
17.5°	758.0	733.5	728.8
20°	699.6	668.6	663.1
22.5°	635.6	600.1	597.3
25°	572.6	536.2	528.8
27.5°	502.4	466.7	463.1
30°	432.0	400.9	399.2
32.5°	372.6	353.5	349.8
35°	330.7	319.7	315.1
37.5°	303.2	295.0	294.1
40°	282.2	274.9	274.0
42.5°	264.9	258.4	257.6
45°	247.6	242.1	240.2
47.5°	230.2	224.7	223.7
50°	214.6	207.4	206.4
52.5°	200.0	192.7	190.9
55°	186.3	179.1	179.1
57.5°	174.4	167.2	166.2
60°	163.5	156.2	155.2
62.5°	155.2	146.1	145.2
65°	148.9	139.8	137.9
67.5°	145.2	134.3	131.5
70°	151.6	131.5	126.9
72.5°	152.5	128.8	122.4
75°	147.0	121.5	116.9
77.5°	128.8	108.7	104.1
80°	111.4	84.0	77.6
82.5°	105.9	68.5	59.4
85°	82.2	44.8	42.0
87.5°	46.6	24.7	20.1
90°	0.0	0.0	0.0

(END OF REPORT)