

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: P149880

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P149880
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
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 W/ SPILL LIGHT CONTROL
Light Source: (63) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9165.3 lumens
Efficiency: N/A
Efficacy: 121.9 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

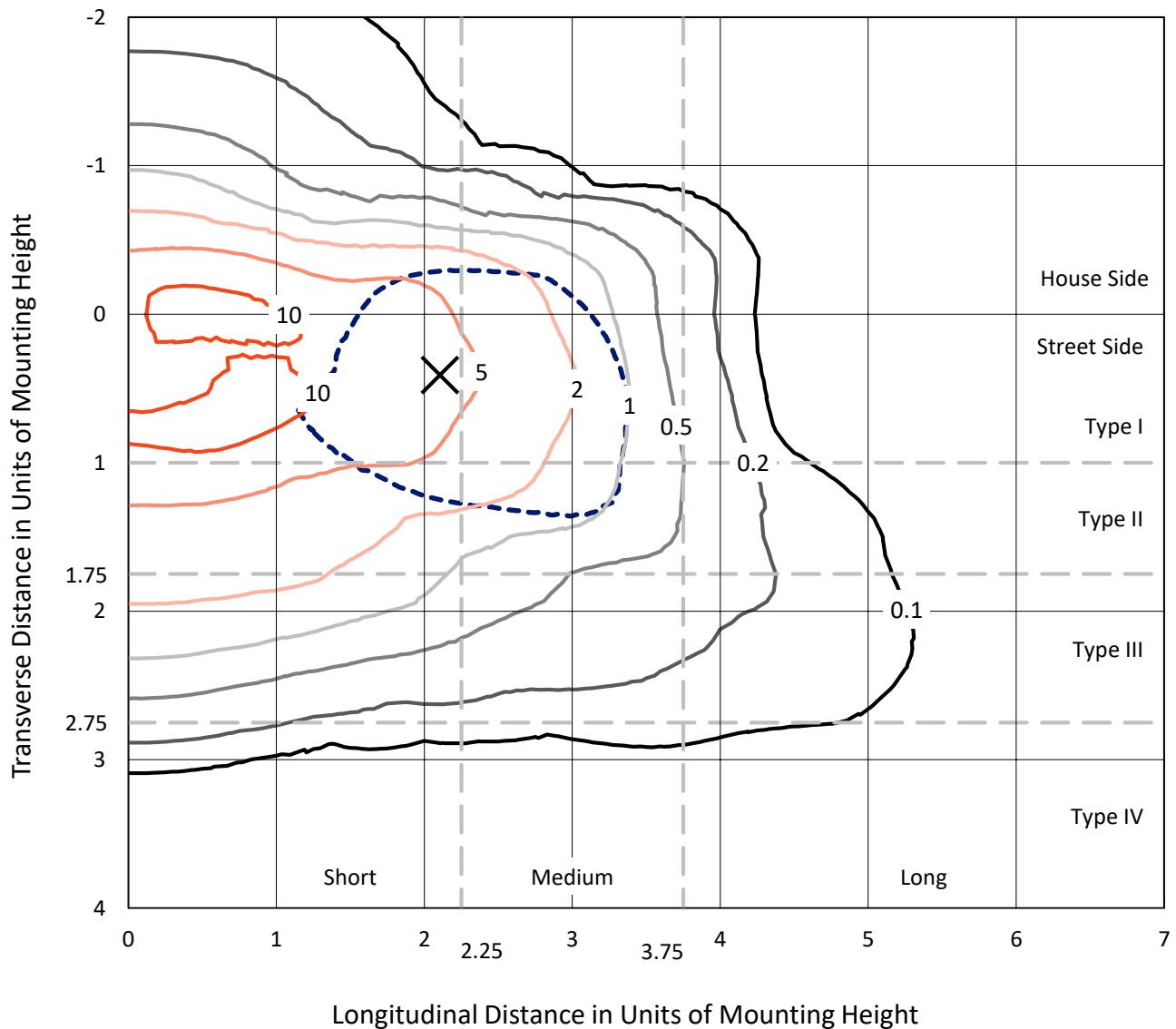


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

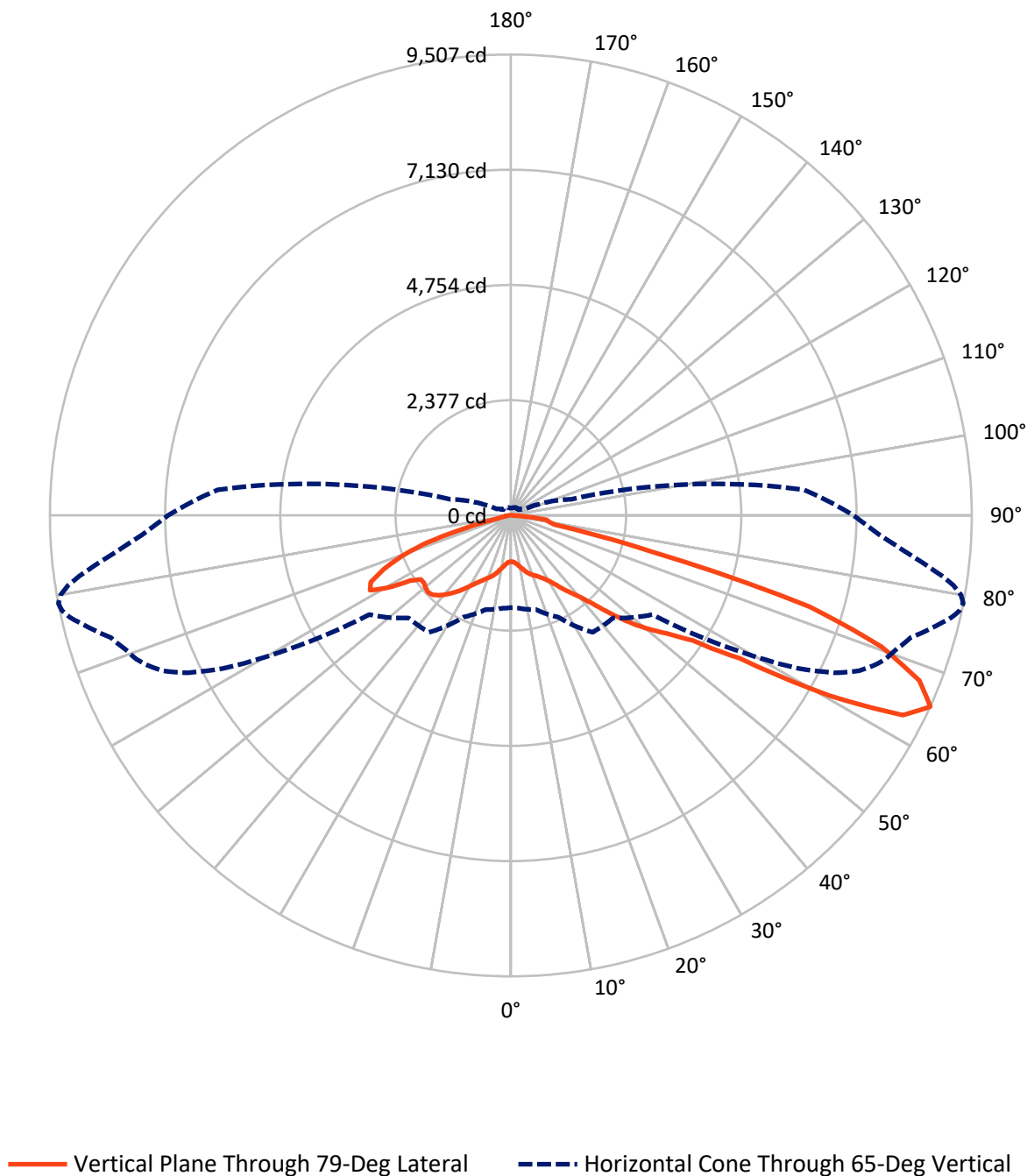


Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2166.7	0.0	2166.7
	% Fixture	23.6	0.0	23.6
Street Side	Lumens	6998.6	0.0	6998.6
	% Fixture	76.4	0.0	76.4
Total	Lumens	9165.3	0.0	9165.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.8	1.0
10°-20°	310.1	3.4
20°-30°	535.6	5.8
30°-40°	886.6	9.7
40°-50°	1503.6	16.4
50°-60°	1997.8	21.8
60°-70°	2580.6	28.2
70°-80°	1082.3	11.8
80°-90°	173.9	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°	9165.3	100.0
0°-180°	9165.3	100.0

Coefficient of Utilization



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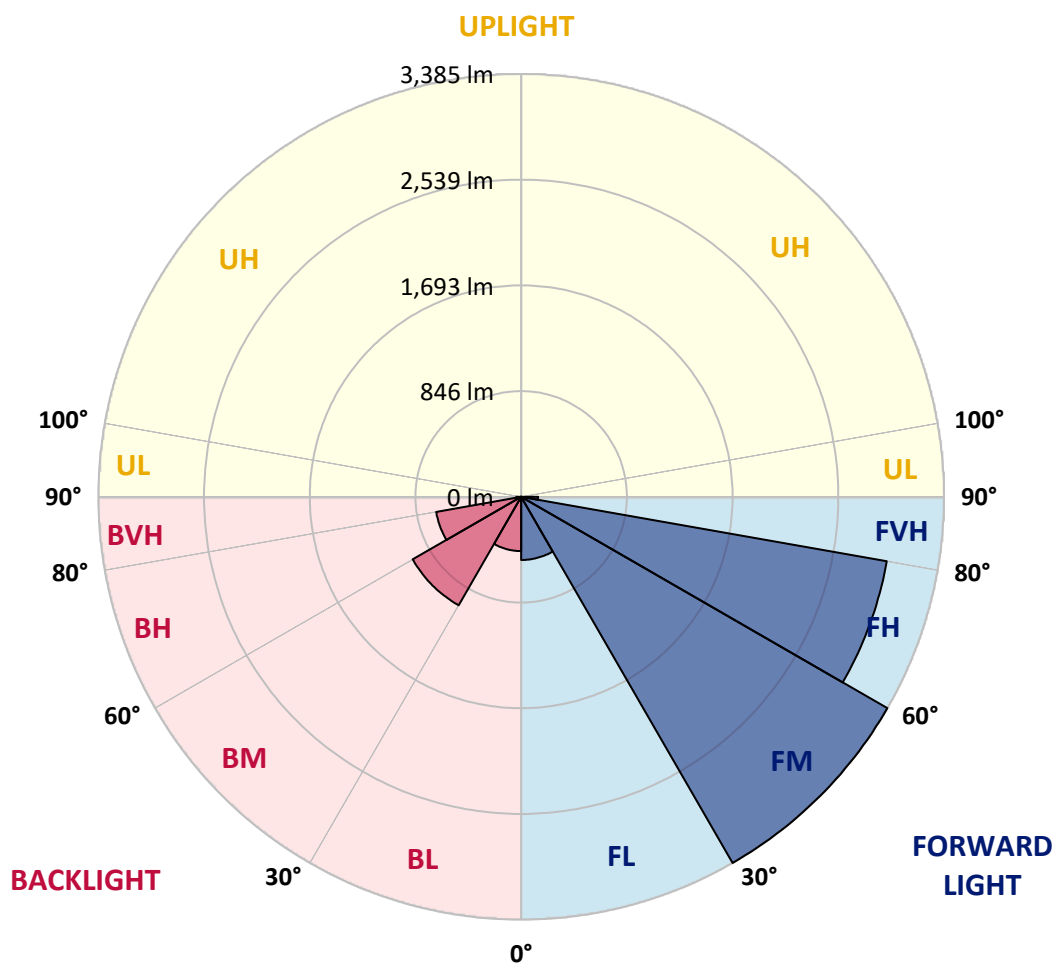
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	505.7	5.5			
FM	(30°-60°)	3385.0	36.9			
FH	(60°-80°)	2972.0	32.4			G2/5000
FVH	(80°-90°)	135.9	1.5			G2/225
BL	(0°-30°)	434.8	4.7	B1/500		
BM	(30°-60°)	1002.9	10.9	B2/2500		
BH	(60°-80°)	691.0	7.5	B2/1000		G2/1000
BVH	(80°-90°)	37.9	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°	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0
2.5°	951.0	954.0	952.0	954.0	956.0	957.0	959.0	958.0	958.0	959.0	957.0
5°	951.0	951.0	954.0	959.0	961.0	967.0	974.0	973.0	974.0	973.0	975.0
7.5°	971.0	969.9	973.0	979.0	981.0	990.1	1002.0	1004.0	1006.0	1006.0	1009.0
10°	1006.0	1005.0	1008.0	1011.0	1014.0	1021.0	1038.0	1045.0	1046.0	1047.0	1051.0
12.5°	1049.9	1049.0	1045.0	1045.0	1044.0	1057.0	1080.0	1093.0	1095.0	1099.0	1102.0
15°	1081.0	1078.0	1072.0	1068.0	1073.0	1094.0	1128.0	1143.0	1145.0	1148.0	1156.0
17.5°	1111.0	1108.0	1095.0	1085.0	1092.0	1126.0	1172.0	1188.0	1192.0	1195.0	1204.0
20°	1153.0	1151.0	1132.0	1108.0	1106.0	1150.1	1206.0	1227.0	1230.1	1234.0	1243.0
22.5°	1217.0	1208.0	1186.0	1141.0	1119.0	1164.0	1230.1	1259.0	1263.0	1267.0	1279.0
25°	1297.0	1293.0	1255.0	1186.0	1140.0	1178.0	1256.0	1292.0	1298.0	1303.0	1319.0
27.5°	1380.0	1374.0	1333.0	1243.0	1177.0	1206.0	1297.0	1338.0	1346.0	1354.0	1369.0
30°	1454.0	1452.0	1418.0	1320.0	1237.0	1259.0	1363.0	1413.0	1422.0	1432.0	1446.0
32.5°	1628.0	1629.0	1594.0	1494.0	1382.0	1355.0	1458.0	1533.0	1537.0	1549.0	1574.0
35°	1961.0	1965.0	1952.0	1873.0	1747.0	1636.0	1646.0	1720.0	1724.0	1734.0	1758.0
37.5°	2184.0	2192.0	2232.0	2257.0	2193.0	2142.0	2015.0	1986.0	1989.0	1983.0	1978.0
40°	2307.0	2319.0	2424.0	2554.0	2624.0	2625.0	2569.9	2442.0	2393.0	2379.0	2319.0
42.5°	2377.0	2397.0	2546.0	2768.0	2969.0	3107.0	3141.0	2999.0	2963.0	2899.0	2784.0
45°	2423.0	2447.0	2623.0	2927.0	3223.0	3458.0	3635.0	3572.0	3548.0	3509.0	3403.0
47.5°	2415.0	2434.0	2617.0	2981.0	3356.0	3689.9	4004.0	4069.0	4040.0	4030.1	3958.0
50°	2269.0	2286.0	2472.0	2847.0	3283.0	3778.0	4238.0	4422.0	4422.0	4441.0	4419.0
52.5°	2113.0	2127.0	2296.0	2633.0	3047.0	3692.0	4368.0	4673.0	4713.0	4746.0	4798.0
55°	2054.0	2071.0	2199.0	2487.0	2846.0	3446.0	4412.0	4861.0	4935.0	4991.0	5109.0
57.5°	2082.0	2099.0	2190.1	2408.0	2728.0	3195.0	4414.0	5114.0	5257.0	5372.0	5611.0
60°	2203.0	2219.0	2295.0	2481.0	2697.0	3049.9	4329.0	5517.0	5745.0	5961.0	6359.0
62.5°	2147.0	2167.0	2278.0	2602.0	2928.0	2940.0	4022.0	5829.0	6196.0	6515.0	7148.0
65°	1902.0	1923.0	2009.9	2313.0	2942.0	2988.0	3567.0	5835.0	6291.0	6722.0	7405.0
67.5°	1444.0	1452.0	1521.0	1764.0	2353.0	3041.0	3099.0	5144.0	5578.0	6059.0	6764.0
70°	738.0	752.0	772.0	974.0	1515.0	2513.0	2663.0	3791.0	4344.0	4841.0	5688.0
72.5°	256.0	261.0	281.0	372.0	738.0	1649.0	2331.0	2598.0	2932.0	3397.0	4378.0
75°	154.0	154.0	161.0	188.0	337.0	859.0	2074.0	2122.0	2167.0	2323.0	2965.0
77.5°	122.0	124.0	124.0	129.0	187.0	441.0	1575.0	1973.0	1979.0	1994.0	2102.0
80°	87.0	91.0	99.0	103.0	121.0	242.0	884.0	1732.0	1849.9	1907.0	1986.0
82.5°	65.0	69.0	84.0	89.0	94.0	135.0	397.0	1195.0	1409.9	1524.0	1802.0
85°	29.0	34.0	57.0	63.0	66.0	72.0	186.0	340.0	391.0	439.0	579.0
87.5°	5.0	5.0	9.0	13.0	19.0	18.0	41.0	58.0	59.0	69.0	77.0
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°	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0
2.5°	957.0	957.0	957.0	956.0	957.0	957.0	957.0	957.0	958.0	958.0	958.0
5°	978.0	976.0	977.0	977.0	977.0	976.0	978.0	977.0	978.0	981.0	980.0
7.5°	1009.0	1011.0	1012.0	1013.0	1013.0	1013.0	1014.0	1016.0	1016.0	1019.0	1018.0
10°	1055.0	1054.0	1055.0	1058.0	1061.0	1062.0	1065.0	1064.0	1066.0	1070.1	1074.0
12.5°	1104.0	1106.0	1109.0	1112.0	1117.0	1118.0	1121.0	1122.0	1128.0	1128.0	1132.0
15°	1159.0	1160.0	1166.0	1167.0	1173.0	1175.0	1180.0	1182.0	1189.0	1190.1	1194.0
17.5°	1209.0	1211.0	1214.0	1217.0	1224.0	1227.0	1231.0	1235.0	1241.0	1243.0	1249.9
20°	1249.0	1253.0	1254.0	1260.0	1266.0	1270.1	1274.0	1278.0	1284.0	1287.0	1294.0
22.5°	1285.0	1289.0	1292.0	1297.0	1301.0	1307.0	1309.0	1316.0	1322.0	1327.0	1333.0
25°	1324.0	1329.9	1333.0	1342.0	1345.0	1351.0	1356.0	1363.0	1371.0	1377.0	1385.0
27.5°	1379.0	1388.0	1392.0	1402.0	1409.0	1412.0	1420.0	1430.1	1437.0	1444.0	1452.0
30°	1455.0	1472.0	1475.0	1482.0	1495.0	1497.0	1507.0	1515.0	1526.0	1533.0	1540.0
32.5°	1573.0	1594.0	1596.0	1604.0	1615.0	1619.0	1627.0	1636.0	1653.0	1656.0	1667.0
35°	1754.0	1763.0	1771.0	1774.0	1783.0	1788.0	1794.0	1804.0	1821.0	1819.0	1831.0
37.5°	1971.0	1974.0	1975.0	1965.0	1967.0	1958.0	1969.0	1971.0	1977.0	1982.0	1994.0
40°	2281.0	2249.9	2246.0	2222.0	2198.0	2185.0	2180.0	2160.0	2165.0	2167.0	2177.0
42.5°	2734.0	2674.0	2624.0	2590.1	2531.0	2502.0	2463.0	2432.0	2408.0	2417.0	2421.0
45°	3308.0	3222.0	3142.0	3038.0	2961.0	2906.0	2837.0	2775.0	2747.0	2734.0	2750.1
47.5°	3881.0	3805.0	3711.0	3604.0	3482.0	3391.0	3276.0	3175.0	3105.0	3079.0	3093.0
50°	4376.0	4306.0	4235.0	4172.0	4030.1	3931.0	3774.0	3643.0	3533.0	3477.0	3462.0
52.5°	4787.0	4750.1	4712.0	4659.0	4545.0	4446.0	4321.0	4192.0	4046.0	3932.0	3893.0
55°	5154.0	5176.0	5157.0	5158.0	5113.0	5049.9	4944.0	4848.0	4746.0	4617.0	4563.0
57.5°	5689.0	5819.0	5845.0	5910.1	5942.0	5976.0	6006.0	5949.0	5923.0	5827.0	5828.0
60°	6532.0	6722.0	6887.0	7037.0	7160.0	7280.0	7406.0	7462.0	7524.0	7553.0	7652.0
62.5°	7429.0	7609.9	7856.0	8057.0	8169.9	8326.0	8463.0	8552.0	8661.0	8777.0	8928.0
65°	7651.0	7869.0	8024.0	8158.0	8270.1	8353.0	8428.0	8534.0	8625.0	8809.0	8987.0
67.5°	7082.0	7256.0	7398.0	7529.9	7617.0	7687.0	7754.0	7824.0	7980.0	8147.0	8326.0
70°	6079.0	6289.0	6524.0	6695.0	6738.0	6798.0	6862.0	6953.0	7031.0	7206.0	7342.0
72.5°	4884.0	5186.0	5385.0	5622.0	5673.0	5764.0	5800.0	5871.0	5885.0	5980.0	6016.0
75°	3404.0	3750.1	3950.1	4124.0	4158.0	4108.0	4128.0	3877.0	3813.0	3761.0	3719.0
77.5°	2247.0	2340.0	2372.0	2344.0	2209.9	2105.0	1993.0	1883.0	1895.0	1806.0	1649.9
80°	1998.0	2019.0	1990.1	1962.0	1885.0	1775.0	1674.0	1571.0	1520.0	1466.0	1386.0
82.5°	1944.0	2025.0	2034.0	2000.0	1939.0	1819.0	1697.0	1544.0	1414.0	1294.0	1172.0
85°	649.9	791.0	854.0	913.0	931.0	952.0	880.0	782.0	664.0	585.0	458.0
87.5°	83.0	103.0	119.0	102.0	119.0	140.0	101.0	113.0	114.0	71.0	53.0
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°	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0
2.5°	959.0	958.0	958.0	958.0	957.0	958.0	958.0	958.0	958.0	958.0	957.0
5°	981.0	981.0	984.0	985.0	983.0	982.0	983.0	984.0	984.0	983.0	984.0
7.5°	1022.0	1023.0	1025.0	1028.0	1026.0	1027.0	1028.0	1027.0	1030.1	1031.0	1030.1
10°	1074.0	1076.0	1081.0	1082.0	1081.0	1085.0	1086.0	1084.0	1086.0	1086.0	1089.9
12.5°	1134.0	1136.0	1142.0	1144.0	1146.0	1147.0	1150.1	1151.0	1154.0	1156.0	1159.0
15°	1199.0	1201.0	1205.0	1212.0	1214.0	1216.0	1218.0	1224.0	1225.0	1229.0	1232.0
17.5°	1254.0	1257.0	1263.0	1268.0	1271.0	1276.0	1278.0	1285.0	1287.0	1293.0	1298.0
20°	1298.0	1303.0	1308.0	1314.0	1319.0	1325.0	1327.0	1334.0	1338.0	1341.0	1347.0
22.5°	1338.0	1344.0	1351.0	1358.0	1362.0	1369.9	1373.0	1376.0	1385.0	1389.0	1395.0
25°	1390.1	1396.0	1404.0	1413.0	1417.0	1427.0	1430.1	1435.0	1445.0	1449.0	1458.0
27.5°	1461.0	1469.0	1475.0	1484.0	1489.0	1496.0	1503.0	1509.0	1518.0	1524.0	1534.0
30°	1550.1	1556.0	1566.0	1573.0	1581.0	1591.0	1599.0	1605.0	1609.9	1619.0	1630.1
32.5°	1681.0	1682.0	1685.0	1702.0	1710.1	1718.0	1729.0	1734.0	1742.0	1751.0	1763.0
35°	1844.0	1853.0	1860.0	1868.0	1877.0	1886.0	1889.9	1905.0	1912.0	1924.0	1936.0
37.5°	2006.0	2007.0	2023.0	2028.0	2036.0	2045.0	2059.0	2074.0	2092.0	2104.0	2123.0
40°	2180.0	2188.0	2208.0	2218.0	2228.0	2249.9	2261.0	2285.0	2315.0	2332.0	2364.0
42.5°	2432.0	2444.0	2480.0	2496.0	2520.0	2556.0	2579.0	2612.0	2624.0	2665.0	2680.0
45°	2762.0	2799.0	2851.0	2885.0	2928.0	2967.0	2987.0	3002.0	3020.0	3052.0	3048.0
47.5°	3119.0	3167.0	3225.0	3295.0	3323.0	3369.0	3395.0	3424.0	3408.0	3400.0	3392.0
50°	3485.0	3541.0	3618.0	3681.0	3724.0	3752.0	3774.0	3769.9	3736.0	3718.0	3668.0
52.5°	3892.0	3925.0	3998.0	4052.0	4078.0	4084.0	4079.0	4049.0	4017.0	3960.0	3901.0
55°	4516.0	4501.0	4529.9	4555.0	4547.0	4575.0	4503.0	4475.0	4396.0	4322.0	4243.0
57.5°	5784.0	5804.0	5642.0	5569.0	5556.0	5582.0	5455.0	5439.0	5248.0	5224.0	5091.0
60°	7638.0	7736.0	7609.0	7538.0	7346.0	7283.0	7141.0	7082.0	6899.0	6751.0	6564.0
62.5°	9032.0	9121.0	9174.0	9073.0	8961.0	8796.0	8581.0	8343.0	8149.0	7922.0	7724.0
65°	9158.0	9338.0	9460.0	9507.0	9428.0	9247.0	8982.0	8682.0	8385.0	8100.0	7849.9
67.5°	8569.0	8729.9	8919.0	9088.0	9098.0	8980.0	8754.0	8449.0	8106.0	7754.0	7461.0
70°	7557.0	7759.0	7924.0	8102.0	8226.0	8158.0	8045.0	7765.0	7409.0	7135.0	6798.0
72.5°	6146.0	6231.0	6271.0	6446.0	6448.0	6324.0	6244.0	6089.0	5802.0	5608.0	5351.0
75°	3589.0	3402.0	3203.0	3030.1	2889.0	2830.1	2568.0	2524.0	2348.0	2239.0	2079.0
77.5°	1480.0	1313.0	1098.0	919.0	742.0	662.0	546.0	495.0	429.0	400.0	381.0
80°	1269.0	1111.0	949.0	794.0	656.0	518.0	403.0	313.0	246.0	209.0	194.0
82.5°	1036.0	941.0	828.0	744.0	636.0	533.0	449.9	349.0	261.0	192.0	147.0
85°	374.0	307.0	247.0	227.0	181.0	149.0	125.0	107.0	88.0	70.1	62.0
87.5°	42.0	40.0	23.0	22.0	25.0	18.0	21.0	19.0	16.0	14.0	15.0
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°	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0	954.0
2.5°	957.0	957.0	958.0	958.0	959.0	960.0	962.0	961.0	961.0	962.0	962.0
5°	984.0	987.0	986.0	986.0	986.0	987.0	988.0	984.0	980.0	976.0	974.0
7.5°	1031.0	1033.0	1035.0	1033.0	1035.0	1034.0	1032.0	1021.0	1008.0	992.0	981.0
10°	1092.0	1092.0	1094.0	1093.0	1097.0	1094.0	1088.0	1063.0	1035.0	1001.0	976.0
12.5°	1158.0	1165.0	1162.0	1163.0	1171.0	1163.0	1149.0	1112.0	1062.0	1007.0	963.0
15°	1236.0	1239.0	1241.0	1238.0	1243.0	1236.0	1211.0	1152.0	1079.0	1002.0	937.0
17.5°	1300.0	1301.0	1302.0	1304.0	1311.0	1303.0	1260.0	1180.0	1083.0	979.0	893.0
20°	1350.1	1355.0	1359.0	1359.0	1369.0	1357.0	1300.0	1194.0	1070.1	941.0	837.0
22.5°	1402.0	1406.0	1411.0	1412.0	1425.0	1413.0	1333.0	1191.0	1036.0	887.0	772.0
25°	1466.0	1470.1	1474.0	1479.0	1497.0	1480.0	1366.0	1179.0	989.0	823.0	702.0
27.5°	1540.0	1549.0	1552.0	1560.0	1581.0	1555.0	1394.0	1161.0	937.0	749.0	628.0
30°	1639.0	1649.9	1654.0	1665.0	1694.0	1637.0	1409.9	1129.9	871.0	674.0	549.0
32.5°	1772.0	1787.0	1799.0	1811.0	1844.0	1719.0	1412.0	1085.0	794.0	590.1	473.0
35°	1946.0	1969.0	1978.0	1986.0	2017.0	1808.0	1403.0	1018.0	700.0	504.0	413.0
37.5°	2141.0	2164.0	2169.9	2174.0	2180.0	1884.0	1381.0	916.0	594.0	429.0	365.0
40°	2381.0	2401.0	2409.0	2403.0	2371.0	1943.0	1332.0	797.0	491.0	378.0	335.0
42.5°	2674.0	2704.0	2707.0	2680.0	2574.0	1976.0	1234.0	657.0	409.9	341.0	312.0
45°	3037.0	3035.0	3018.0	2999.0	2795.0	1963.0	1097.0	535.0	359.0	312.0	291.0
47.5°	3363.0	3329.0	3303.0	3247.0	2990.1	1887.0	920.0	443.0	328.0	289.9	273.0
50°	3630.1	3568.0	3513.0	3452.0	3135.0	1752.0	744.0	376.0	299.0	271.0	256.0
52.5°	3841.0	3766.0	3702.0	3642.0	3275.0	1602.0	609.9	327.0	271.0	252.0	237.0
55°	4171.0	4096.0	3994.0	3928.0	3489.0	1464.0	523.0	288.0	244.0	232.0	217.0
57.5°	5006.0	4940.0	4818.0	4647.0	4039.0	1412.0	474.0	258.0	222.0	215.0	203.0
60°	6464.0	6357.0	6198.0	6024.0	5157.0	1447.0	435.0	237.0	207.0	201.0	192.0
62.5°	7564.0	7376.0	7196.0	7035.0	6051.0	1446.0	384.0	221.0	196.0	193.0	184.0
65°	7609.0	7418.0	7237.0	7068.0	6071.0	1287.0	324.0	207.0	194.0	193.0	178.0
67.5°	7205.0	6998.0	6823.0	6609.9	5620.0	1006.0	260.0	198.0	202.0	200.0	176.0
70°	6545.0	6275.0	6131.0	5921.0	4946.0	704.0	214.0	201.0	219.0	213.0	179.0
72.5°	5137.0	4933.0	4714.0	4568.0	3872.0	445.0	180.0	203.0	226.0	216.0	187.0
75°	1912.0	1967.0	1877.0	1845.0	1967.0	261.0	160.0	189.0	202.0	187.0	169.9
77.5°	386.0	369.0	350.1	346.0	447.0	161.0	147.0	164.0	155.0	137.0	138.0
80°	185.0	180.0	174.0	173.0	166.0	134.0	136.0	140.0	117.0	106.0	113.0
82.5°	123.0	116.0	114.0	110.1	112.0	120.0	129.0	120.0	89.9	84.0	102.0
85°	57.0	55.0	54.0	54.0	60.0	108.0	107.0	88.0	62.0	60.0	102.0
87.5°	14.0	14.0	15.0	14.0	16.0	32.0	28.0	27.0	23.0	26.0	48.0
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

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	954.0	954.0	954.0
2.5°	961.0	962.0	961.0
5°	969.9	969.9	969.9
7.5°	969.9	967.0	966.0
10°	956.0	947.0	947.0
12.5°	932.0	917.0	915.0
15°	887.0	867.0	864.0
17.5°	829.9	803.0	798.0
20°	766.0	732.0	726.0
22.5°	696.0	657.0	654.0
25°	627.0	587.0	579.0
27.5°	550.1	511.0	507.0
30°	473.0	439.0	437.0
32.5°	408.0	387.0	383.0
35°	362.0	350.1	345.0
37.5°	332.0	323.0	322.0
40°	309.0	301.0	300.0
42.5°	289.9	283.0	282.0
45°	271.0	265.0	263.0
47.5°	252.0	246.0	245.0
50°	235.0	227.0	226.0
52.5°	219.0	211.0	209.0
55°	204.0	196.0	196.0
57.5°	191.0	183.0	182.0
60°	179.0	171.0	169.9
62.5°	169.9	160.0	159.0
65°	163.0	153.0	151.0
67.5°	159.0	147.0	144.0
70°	166.0	144.0	139.0
72.5°	167.0	141.0	134.0
75°	161.0	133.0	128.0
77.5°	141.0	119.0	114.0
80°	122.0	92.0	85.0
82.5°	116.0	75.0	65.0
85°	89.9	49.0	46.0
87.5°	51.0	27.0	22.0
90°	0.0	0.0	0.0

(END OF REPORT)