

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: P154331

Luminaire Tested: **VXM-E03-LED-E1-T2-7050**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P154331
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: VXM-E03-LED-E1-T2-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (63) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9431.5 lumens
Efficiency: N/A
Efficacy: 125.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Semi-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

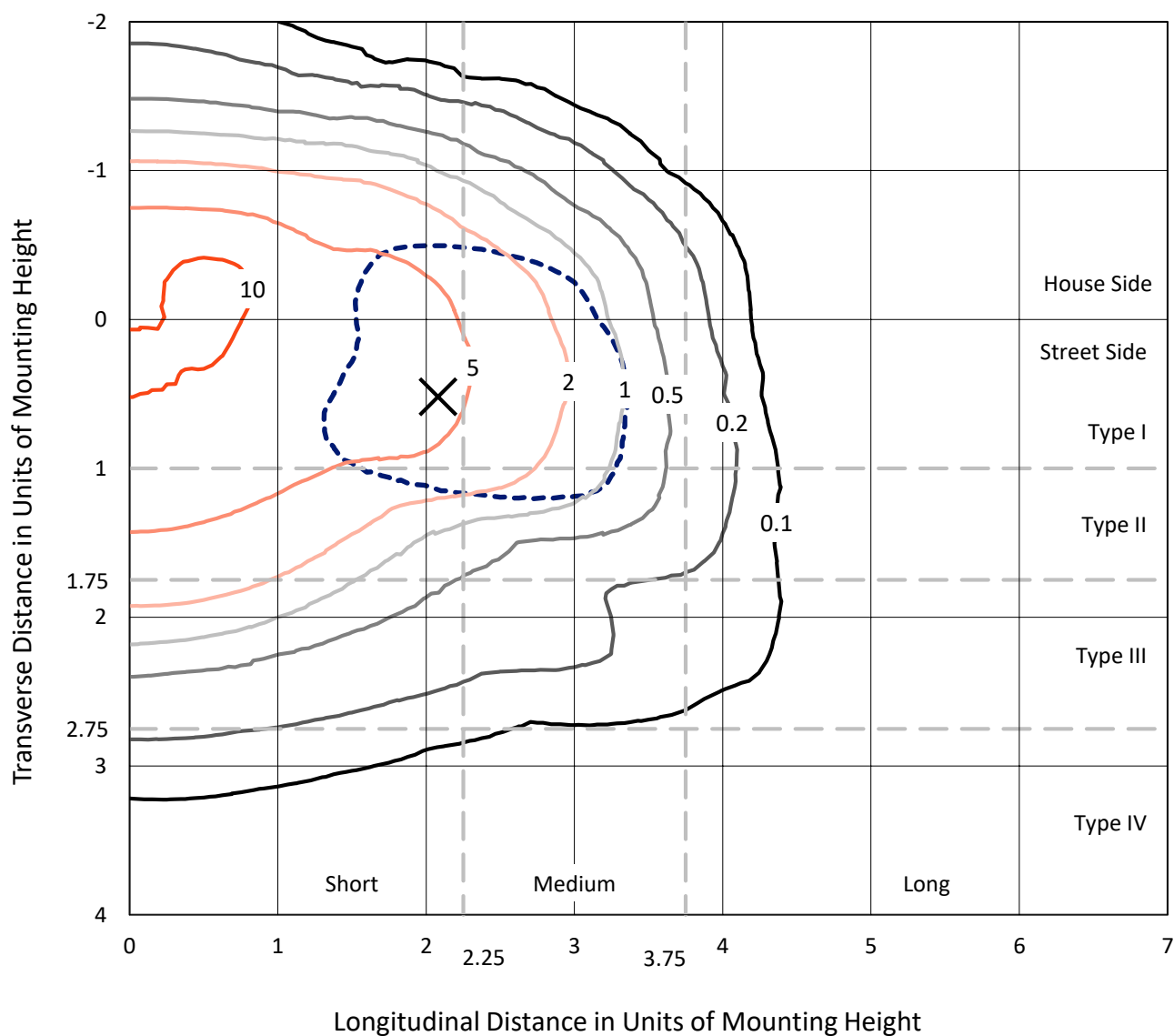


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

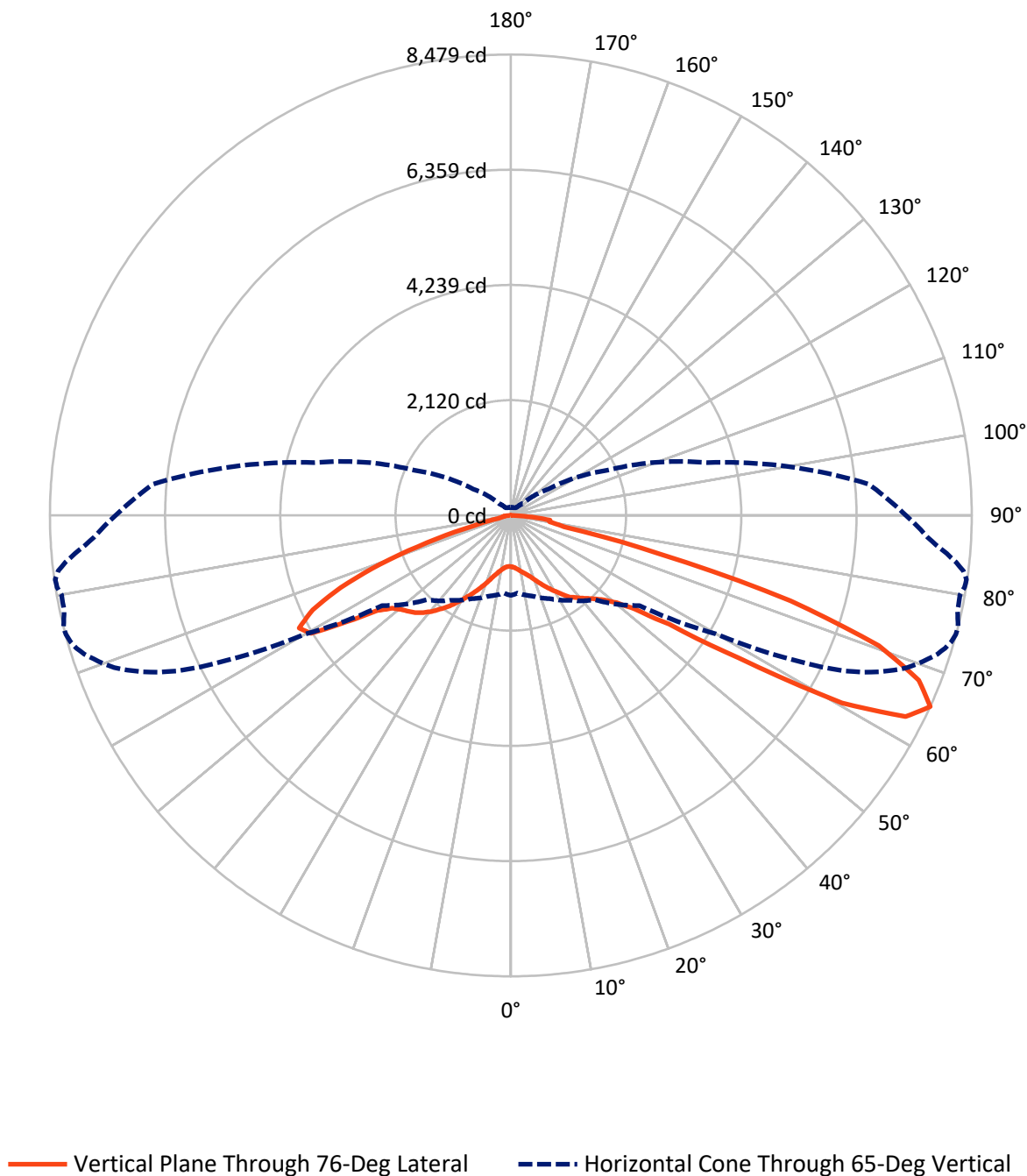


Based on 10 foot mounting height. Maximum calculated value = 11.5 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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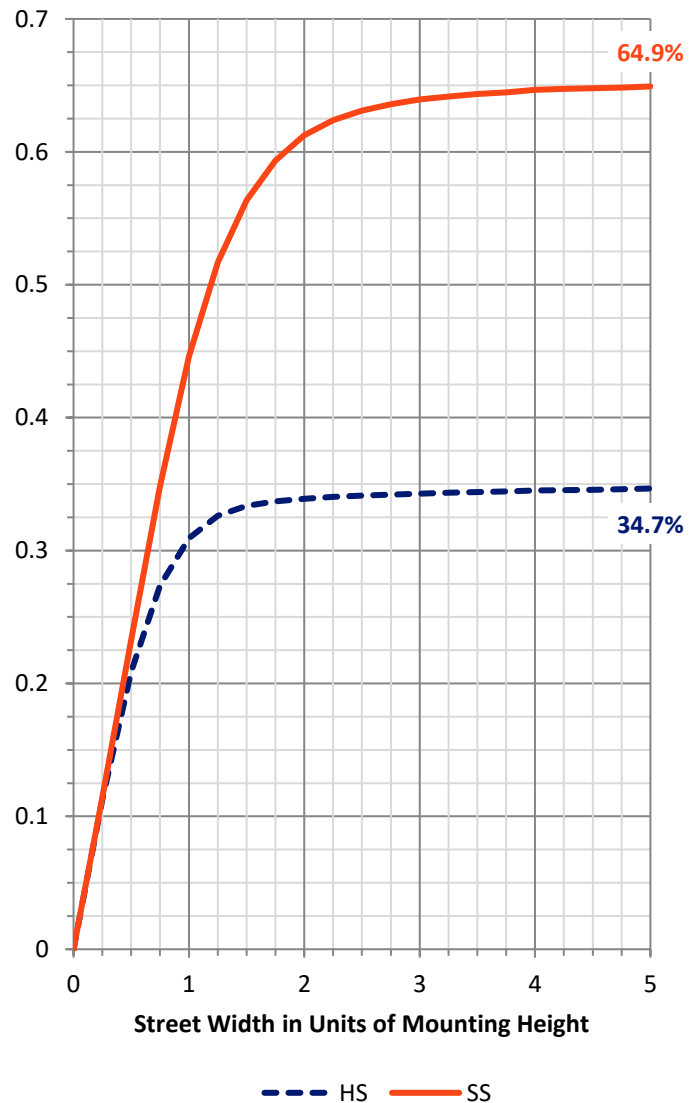
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	3302.7	0.0	3302.7
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	6128.8	0.0	6128.8
	% Fixture	65.0	0.0	65.0
Total	Lumens	9431.5	0.0	9431.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	94.4	1.0
10°-20°	324.3	3.4
20°-30°	637.2	6.8
30°-40°	1058.8	11.2
40°-50°	1555.7	16.5
50°-60°	2153.9	22.8
60°-70°	2570.9	27.3
70°-80°	909.2	9.6
80°-90°	127.0	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°	9431.5	100.0
0°-180°	9431.5	100.0

Coefficient of Utilization



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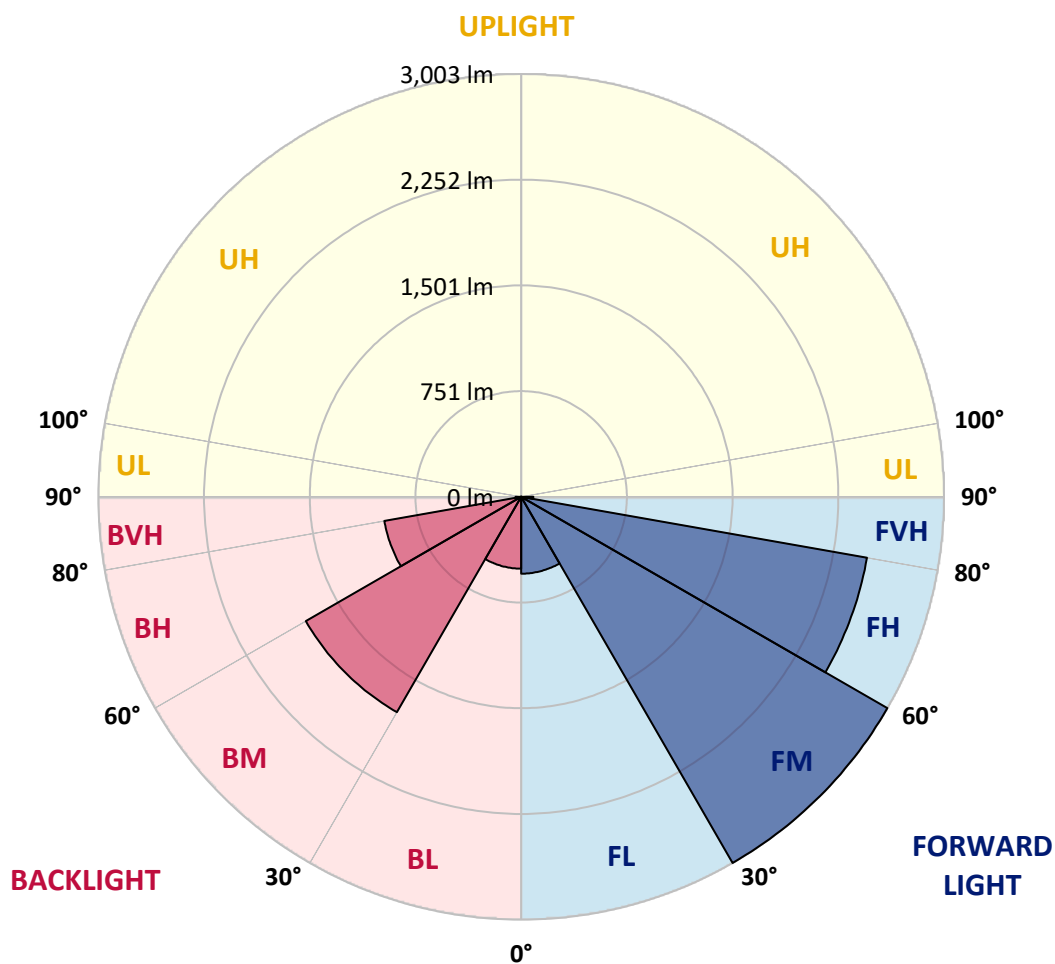
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	545.7	5.8			
FM	(30°-60°)	3002.7	31.8			
FH	(60°-80°)	2493.6	26.4			G2/5000
FVH	(80°-90°)	86.8	0.9			G1/100
BL	(0°-30°)	510.2	5.4	B2/1000		
BM	(30°-60°)	1765.7	18.7	B2/2500		
BH	(60°-80°)	986.5	10.5	B2/1000		G2/1000
BVH	(80°-90°)	40.2	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°	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0
2.5°	984.0	985.1	983.0	982.0	978.9	973.8	969.7	965.6	965.6	965.6	962.5
5°	1027.1	1029.2	1025.1	1022.0	1012.8	1007.6	1000.5	995.3	993.3	992.2	989.2
7.5°	1081.5	1078.4	1072.3	1070.2	1063.0	1051.8	1038.4	1028.2	1028.2	1027.1	1028.2
10°	1135.9	1127.7	1124.6	1121.5	1110.2	1095.9	1080.5	1069.2	1068.2	1067.1	1064.1
12.5°	1190.3	1187.2	1184.1	1172.8	1161.6	1139.0	1121.5	1110.2	1109.2	1110.2	1106.1
15°	1262.1	1254.9	1251.8	1232.4	1207.7	1183.1	1161.6	1151.3	1148.2	1149.2	1146.2
17.5°	1317.5	1317.5	1310.3	1288.8	1257.0	1223.1	1200.5	1194.4	1193.4	1193.4	1194.4
20°	1361.6	1360.6	1353.4	1336.0	1298.0	1264.2	1252.9	1250.8	1249.8	1249.8	1252.9
22.5°	1386.3	1384.2	1381.1	1361.6	1331.9	1309.3	1310.3	1316.5	1318.5	1320.6	1324.7
25°	1398.6	1395.5	1394.5	1381.1	1359.6	1356.5	1375.0	1391.4	1395.5	1399.6	1404.7
27.5°	1419.1	1414.0	1416.0	1410.9	1405.8	1415.0	1453.0	1470.4	1473.5	1478.6	1481.7
30°	1475.5	1473.5	1481.7	1483.7	1487.9	1501.2	1536.1	1552.5	1559.7	1559.7	1574.0
32.5°	1583.3	1584.3	1586.4	1607.9	1615.1	1624.3	1642.8	1656.1	1657.2	1658.2	1671.5
35°	1728.0	1734.1	1751.6	1770.0	1787.5	1786.4	1775.2	1782.3	1777.2	1783.4	1784.4
37.5°	1910.6	1902.4	1928.1	1970.1	1996.8	1989.6	1939.3	1906.5	1915.7	1911.6	1908.6
40°	2051.2	2060.4	2109.7	2165.1	2185.6	2208.2	2142.5	2086.1	2077.9	2062.5	2053.2
42.5°	2245.1	2246.1	2286.2	2327.2	2386.7	2436.0	2393.9	2312.8	2288.2	2269.7	2229.7
45°	2424.7	2421.6	2454.4	2504.7	2575.5	2646.3	2661.7	2573.5	2564.2	2531.4	2479.1
47.5°	2544.7	2540.6	2563.2	2628.9	2743.8	2859.8	2923.4	2896.7	2879.3	2865.9	2783.8
50°	2625.8	2617.6	2643.2	2713.0	2841.3	3019.8	3186.1	3208.6	3201.4	3201.4	3149.1
52.5°	2686.3	2686.3	2704.8	2761.2	2891.6	3114.2	3411.8	3525.7	3534.9	3545.2	3542.1
55°	2652.5	2657.6	2703.8	2785.9	2923.4	3179.9	3598.6	3847.9	3899.2	3942.3	3991.6
57.5°	2536.5	2554.0	2615.5	2750.0	2931.6	3229.2	3805.8	4299.4	4444.1	4569.2	4764.2
60°	2367.2	2389.8	2479.1	2650.4	2871.0	3149.1	3878.7	4681.1	4910.9	5183.9	5692.8
62.5°	2076.8	2099.4	2186.6	2358.0	2546.8	2842.3	3577.0	4737.5	5104.9	5491.7	6261.3
65°	1471.4	1435.5	1536.1	1690.0	1906.5	2192.8	2890.5	4358.9	4887.3	5411.7	6361.9
67.5°	819.9	816.8	878.3	993.3	1200.5	1508.4	1991.7	3343.1	3829.4	4423.5	5590.2
70°	565.4	571.5	610.5	734.7	906.1	1171.8	1419.1	2099.4	2449.3	2852.6	3999.8
72.5°	397.1	410.4	432.0	505.9	681.3	987.1	1449.9	1254.9	1429.4	1704.4	2405.2
75°	232.9	242.2	257.6	293.5	387.9	659.8	1501.2	1103.1	1103.1	1167.7	1455.0
77.5°	143.7	143.7	152.9	167.3	206.2	323.2	1069.2	1239.5	1204.6	1167.7	1170.8
80°	73.9	79.0	92.3	99.5	114.9	147.8	480.2	1156.4	1268.3	1343.2	1290.8
82.5°	33.9	38.0	56.4	60.5	66.7	78.0	165.2	657.7	881.4	1160.5	1449.9
85°	17.4	17.4	29.8	36.9	40.0	35.9	60.5	265.8	402.2	613.6	960.4
87.5°	3.1	3.1	5.1	6.2	9.2	8.2	10.3	15.4	25.7	27.7	28.7
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):

	65°	66°	67°	68°	69°	70°	71°	72°	73°	74°	75°
0°	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0
2.5°	961.5	962.5	961.5	960.4	958.4	958.4	958.4	957.4	957.4	957.4	956.3
5°	989.2	985.1	986.1	984.0	983.0	982.0	983.0	981.0	978.9	979.9	978.9
7.5°	1024.1	1022.0	1017.9	1017.9	1016.9	1014.8	1014.8	1011.7	1010.7	1008.7	1007.6
10°	1063.0	1057.9	1060.0	1057.9	1058.9	1054.8	1052.8	1050.7	1048.7	1048.7	1049.7
12.5°	1103.1	1102.0	1099.0	1096.9	1096.9	1093.8	1094.9	1093.8	1090.8	1089.7	1086.6
15°	1144.1	1144.1	1141.0	1142.1	1141.0	1139.0	1136.9	1136.9	1134.9	1132.8	1133.8
17.5°	1192.3	1192.3	1192.3	1192.3	1193.4	1190.3	1191.3	1189.3	1187.2	1191.3	1191.3
20°	1254.9	1259.0	1259.0	1258.0	1263.1	1260.1	1259.0	1264.2	1259.0	1266.2	1265.2
22.5°	1326.8	1330.9	1330.9	1335.0	1336.0	1339.1	1341.1	1339.1	1343.2	1347.3	1347.3
25°	1406.8	1410.9	1414.0	1420.1	1423.2	1421.2	1422.2	1427.3	1429.4	1433.5	1437.6
27.5°	1490.9	1492.0	1496.1	1503.2	1508.4	1510.4	1511.5	1519.7	1520.7	1522.7	1526.8
30°	1573.0	1583.3	1581.2	1590.5	1593.5	1596.6	1602.8	1605.9	1613.0	1617.1	1617.1
32.5°	1669.5	1667.4	1675.6	1682.8	1687.9	1693.1	1698.2	1702.3	1706.4	1708.5	1718.7
35°	1789.5	1793.6	1793.6	1794.7	1807.0	1808.0	1812.1	1821.3	1824.4	1830.6	1834.7
37.5°	1908.6	1901.4	1900.3	1900.3	1896.2	1899.3	1900.3	1901.4	1905.5	1906.5	1910.6
40°	2041.9	2032.7	2024.5	2019.4	2011.2	1999.9	1997.8	1992.7	1995.8	1994.7	1995.8
42.5°	2224.6	2198.9	2179.4	2165.1	2148.7	2136.4	2127.1	2113.8	2104.5	2093.3	2091.2
45°	2457.5	2409.3	2376.5	2352.9	2329.3	2295.4	2275.9	2255.4	2236.9	2218.4	2203.0
47.5°	2763.3	2712.0	2659.7	2616.6	2579.6	2525.2	2469.8	2439.1	2403.1	2371.3	2348.8
50°	3123.5	3061.9	3037.3	2976.7	2930.6	2848.5	2779.7	2729.4	2657.6	2609.4	2567.3
52.5°	3491.8	3476.4	3463.1	3411.8	3357.4	3310.2	3249.7	3161.4	3088.6	3033.2	2947.0
55°	3993.6	4000.8	3995.7	3967.9	3948.5	3903.3	3878.7	3801.7	3768.9	3688.8	3598.6
57.5°	4838.1	4895.5	4968.4	4997.1	5036.1	4999.2	5042.3	5094.6	4964.3	5009.4	4928.4
60°	5916.5	6180.2	6337.2	6530.1	6656.3	6832.8	6864.6	6910.8	6897.5	6923.1	6975.5
62.5°	6575.3	6888.2	7188.9	7407.5	7641.4	7770.7	7926.7	8035.4	8148.3	8224.2	8202.7
65°	6769.2	7091.4	7364.4	7603.4	7812.8	7970.8	8115.5	8251.9	8355.6	8428.4	8471.5
67.5°	6057.1	6477.8	6765.1	7045.2	7315.1	7481.3	7602.4	7734.8	7886.6	8012.9	8037.5
70°	4558.0	5189.0	5596.4	5931.9	6249.0	6472.7	6642.0	6765.1	6883.1	6973.4	7071.9
72.5°	2850.5	3402.6	3868.4	4303.5	4640.0	4947.9	5090.5	5363.5	5327.5	5396.3	5470.2
75°	1708.5	1977.3	2233.8	2540.6	2717.1	2973.7	3019.8	3065.0	3041.4	2964.4	3021.9
77.5°	1187.2	1231.3	1229.3	1211.8	1193.4	1148.2	1089.7	1057.9	1036.4	1005.6	1017.9
80°	1194.4	1099.0	953.3	801.4	661.8	569.5	532.5	532.5	570.5	624.9	679.3
82.5°	1427.3	1325.7	1182.1	989.2	783.9	638.2	540.8	501.8	508.9	564.4	634.1
85°	962.5	985.1	864.0	790.1	625.9	487.4	408.4	331.4	293.5	302.7	342.7
87.5°	34.9	42.1	15.4	20.5	14.4	12.3	12.3	13.3	9.2	11.3	10.3
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°	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0
2.5°	955.3	954.3	954.3	952.2	952.2	951.2	951.2	950.2	949.1	949.1	948.1
5°	977.9	976.9	974.8	973.8	971.7	971.7	970.7	968.6	968.6	966.6	965.6
7.5°	1009.7	1007.6	1005.6	1004.6	1003.5	1000.5	1000.5	998.4	998.4	996.3	995.3
10°	1047.7	1045.6	1043.5	1044.6	1041.5	1040.5	1038.4	1038.4	1035.3	1034.3	1034.3
12.5°	1088.7	1087.7	1087.7	1084.6	1083.6	1082.5	1078.4	1078.4	1078.4	1076.4	1077.4
15°	1132.8	1133.8	1130.8	1133.8	1132.8	1129.7	1129.7	1129.7	1125.6	1130.8	1126.7
17.5°	1192.3	1195.4	1193.4	1194.4	1192.3	1192.3	1193.4	1192.3	1194.4	1194.4	1200.5
20°	1266.2	1267.2	1272.4	1270.3	1270.3	1269.3	1271.3	1272.4	1276.5	1274.4	1278.5
22.5°	1347.3	1352.4	1353.4	1357.5	1357.5	1356.5	1358.6	1362.7	1364.7	1367.8	1366.8
25°	1439.6	1442.7	1446.8	1441.7	1449.9	1449.9	1451.9	1457.1	1458.1	1458.1	1465.3
27.5°	1525.8	1534.0	1535.1	1540.2	1537.1	1539.2	1546.3	1549.4	1553.5	1553.5	1555.6
30°	1623.3	1626.4	1628.4	1634.6	1633.6	1634.6	1635.6	1640.7	1640.7	1645.9	1651.0
32.5°	1723.9	1725.9	1728.0	1734.1	1736.2	1740.3	1738.2	1742.3	1747.5	1748.5	1751.6
35°	1843.9	1846.0	1848.0	1857.3	1858.3	1865.5	1867.5	1865.5	1873.7	1868.5	1873.7
37.5°	1913.7	1922.9	1925.0	1931.1	1929.1	1934.2	1937.3	1941.4	1943.4	1947.5	1955.8
40°	1998.9	2001.9	2008.1	2011.2	2015.3	2016.3	2020.4	2023.5	2026.6	2035.8	2045.0
42.5°	2086.1	2090.2	2093.3	2097.4	2102.5	2106.6	2109.7	2118.9	2121.0	2127.1	2144.6
45°	2191.8	2189.7	2190.7	2191.8	2193.8	2198.9	2208.2	2217.4	2223.6	2237.9	2252.3
47.5°	2323.1	2309.8	2304.6	2296.4	2298.5	2309.8	2311.8	2327.2	2339.5	2352.9	2370.3
50°	2522.2	2486.3	2464.7	2443.2	2441.1	2447.3	2455.5	2471.9	2486.3	2503.7	2528.3
52.5°	2856.7	2787.9	2744.8	2685.3	2668.9	2665.8	2659.7	2668.9	2673.0	2696.6	2742.8
55°	3533.9	3406.7	3324.6	3232.2	3146.0	3120.4	3071.1	3081.4	3071.1	3085.5	3154.2
57.5°	4947.9	4846.3	4766.3	4648.3	4500.5	4343.5	4304.5	4143.4	4175.2	4267.6	4208.1
60°	7001.1	6964.2	6906.7	6850.3	6648.1	6534.2	6348.5	6328.0	6197.7	6198.7	6113.5
62.5°	8150.4	8197.6	8162.7	8146.3	8135.0	8099.1	8006.7	7895.9	7729.7	7609.6	7433.1
65°	8478.7	8438.7	8400.7	8395.6	8392.5	8451.0	8464.3	8386.4	8235.5	8048.8	7845.6
67.5°	8096.0	8073.4	8075.4	8032.4	8059.0	8160.6	8231.4	8209.9	8071.3	7845.6	7587.0
70°	7184.8	7140.7	7185.8	7242.3	7282.3	7340.8	7411.6	7429.0	7302.8	7070.9	6807.2
72.5°	5379.9	5387.1	5430.2	5445.5	5606.6	5590.2	5653.8	5446.6	5355.2	5134.6	4999.2
75°	2831.0	2784.9	2904.9	2650.4	2545.8	2618.6	2414.4	2218.4	2259.5	2293.3	2049.1
77.5°	1000.5	935.8	826.0	781.9	650.6	551.0	450.5	406.3	382.7	370.4	355.0
80°	718.3	738.8	716.2	662.9	563.3	451.5	356.1	281.2	241.1	219.6	205.2
82.5°	726.5	807.5	843.5	828.1	737.8	558.2	368.4	235.0	174.4	145.7	135.4
85°	389.9	426.9	410.4	345.8	310.9	185.7	127.2	85.2	71.8	65.7	60.5
87.5°	15.4	12.3	10.3	10.3	11.3	12.3	10.3	11.3	10.3	10.3	10.3
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°	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0	943.0
2.5°	946.1	946.1	946.1	945.0	943.0	937.9	932.7	928.6	925.5	922.5	918.4
5°	964.5	962.5	962.5	962.5	954.3	946.1	938.9	931.7	925.5	920.4	916.3
7.5°	995.3	994.3	990.2	989.2	983.0	969.7	961.5	949.1	942.0	934.8	932.7
10°	1032.3	1031.2	1030.2	1029.2	1021.0	1007.6	997.4	986.1	975.8	965.6	955.3
12.5°	1075.4	1074.3	1073.3	1070.2	1067.1	1060.0	1048.7	1036.4	1024.1	1002.5	991.2
15°	1128.7	1130.8	1128.7	1127.7	1125.6	1126.7	1119.5	1102.0	1082.5	1054.8	1031.2
17.5°	1199.5	1197.5	1196.4	1200.5	1199.5	1204.6	1202.6	1180.0	1150.3	1106.1	1065.1
20°	1277.5	1277.5	1281.6	1284.7	1293.9	1307.3	1301.1	1273.4	1219.0	1157.4	1104.1
22.5°	1370.9	1372.9	1377.0	1375.0	1389.3	1410.9	1412.9	1374.0	1303.2	1218.0	1143.1
25°	1468.4	1470.4	1466.3	1472.5	1496.1	1526.8	1533.0	1477.6	1384.2	1273.4	1175.9
27.5°	1560.7	1562.8	1562.8	1571.0	1593.5	1645.9	1652.0	1590.5	1466.3	1321.6	1199.5
30°	1651.0	1659.2	1661.3	1663.3	1697.2	1770.0	1783.4	1694.1	1538.1	1357.5	1215.9
32.5°	1764.9	1768.0	1772.1	1777.2	1816.2	1905.5	1905.5	1783.4	1584.3	1380.1	1219.0
35°	1887.0	1888.0	1897.3	1898.3	1953.7	2043.0	2025.5	1857.3	1617.1	1375.0	1196.4
37.5°	1960.9	1965.0	1974.2	1986.5	2045.0	2171.2	2131.2	1920.9	1623.3	1341.1	1145.1
40°	2052.2	2060.4	2069.7	2082.0	2169.2	2301.6	2220.5	1960.9	1597.6	1274.4	1068.2
42.5°	2150.7	2162.0	2176.4	2198.9	2302.6	2416.5	2288.2	1967.0	1539.2	1199.5	976.9
45°	2261.5	2282.1	2298.5	2325.2	2442.1	2516.0	2329.3	1931.1	1465.3	1101.0	879.4
47.5°	2389.8	2406.2	2434.9	2463.7	2580.7	2583.7	2333.4	1861.4	1364.7	1002.5	775.7
50°	2547.8	2558.1	2601.2	2618.6	2728.4	2654.5	2303.6	1767.0	1259.0	891.7	660.8
52.5°	2758.2	2772.5	2827.9	2854.6	2932.6	2751.0	2261.5	1664.3	1138.0	767.5	542.8
55°	3173.7	3236.3	3275.3	3321.5	3371.8	2969.5	2243.1	1554.5	1001.5	623.9	429.9
57.5°	4340.4	4319.9	4406.1	4510.8	4509.7	3469.3	2353.9	1460.1	840.4	477.1	330.4
60°	6078.6	6098.1	6054.0	6116.6	5917.6	4089.0	2505.7	1360.6	658.8	355.0	252.4
62.5°	7370.5	7257.6	7195.1	7121.2	6683.0	4156.8	2394.9	1156.4	479.2	249.3	193.9
65°	7676.3	7543.9	7409.5	7268.9	6608.1	3747.3	1965.0	848.6	309.9	171.4	153.9
67.5°	7374.6	7162.2	6990.9	6846.2	6055.0	3106.0	1436.5	521.3	177.5	138.5	131.3
70°	6592.7	6357.7	6080.7	5918.6	5098.7	2289.2	920.4	281.2	136.5	123.1	120.1
72.5°	4825.8	4632.9	4330.2	4144.4	3661.1	1391.4	514.1	158.0	127.2	118.0	113.9
75°	1879.8	1779.3	1653.1	1663.3	1484.8	615.7	232.9	136.5	124.2	115.9	111.8
77.5°	323.2	315.0	291.4	291.4	331.4	224.7	154.9	137.5	123.1	113.9	106.7
80°	193.9	189.8	180.6	178.5	172.4	158.0	148.8	139.6	121.1	107.7	98.5
82.5°	127.2	122.1	119.0	118.0	128.3	138.5	139.6	138.5	114.9	93.4	80.0
85°	54.4	54.4	54.4	55.4	73.9	111.8	114.9	123.1	94.4	72.9	57.5
87.5°	9.2	11.3	11.3	12.3	13.3	24.6	30.8	40.0	31.8	30.8	27.7
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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CATALOG NUMBER: VXM-E03-LED-E1-T2-7050

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	943.0	943.0	943.0
2.5°	917.3	915.3	915.3
5°	914.3	912.2	913.2
7.5°	926.6	922.5	923.5
10°	949.1	945.0	943.0
12.5°	977.9	972.7	972.7
15°	1007.6	995.3	994.3
17.5°	1032.3	1016.9	1014.8
20°	1060.0	1039.4	1036.4
22.5°	1085.6	1057.9	1053.8
25°	1104.1	1070.2	1065.1
27.5°	1112.3	1072.3	1068.2
30°	1118.5	1073.3	1067.1
32.5°	1112.3	1064.1	1058.9
35°	1078.4	1026.1	1023.0
37.5°	1019.9	961.5	957.4
40°	943.0	881.4	871.2
42.5°	844.5	787.0	775.7
45°	749.1	683.4	678.3
47.5°	646.4	583.9	586.9
50°	538.7	482.3	481.2
52.5°	436.1	386.8	383.8
55°	343.7	308.9	305.8
57.5°	271.9	253.4	250.4
60°	221.6	212.4	209.3
62.5°	178.5	175.5	174.4
65°	148.8	148.8	148.8
67.5°	129.3	130.3	130.3
70°	119.0	120.1	119.0
72.5°	114.9	118.0	118.0
75°	111.8	113.9	109.8
77.5°	109.8	110.8	103.6
80°	108.8	107.7	94.4
82.5°	94.4	91.3	80.0
85°	86.2	65.7	55.4
87.5°	44.1	30.8	23.6
90°	0.0	0.0	0.0

(END OF REPORT)