

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: P154395

Luminaire Tested: **VXS-F03-LED-E1-T2**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P154395
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-F03-LED-E1-T2
Description: VISION SITE SMALL LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2
Light Source: (21) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7587.9 lumens
Efficiency: N/A
Efficacy: 96.9 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): 78.3
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

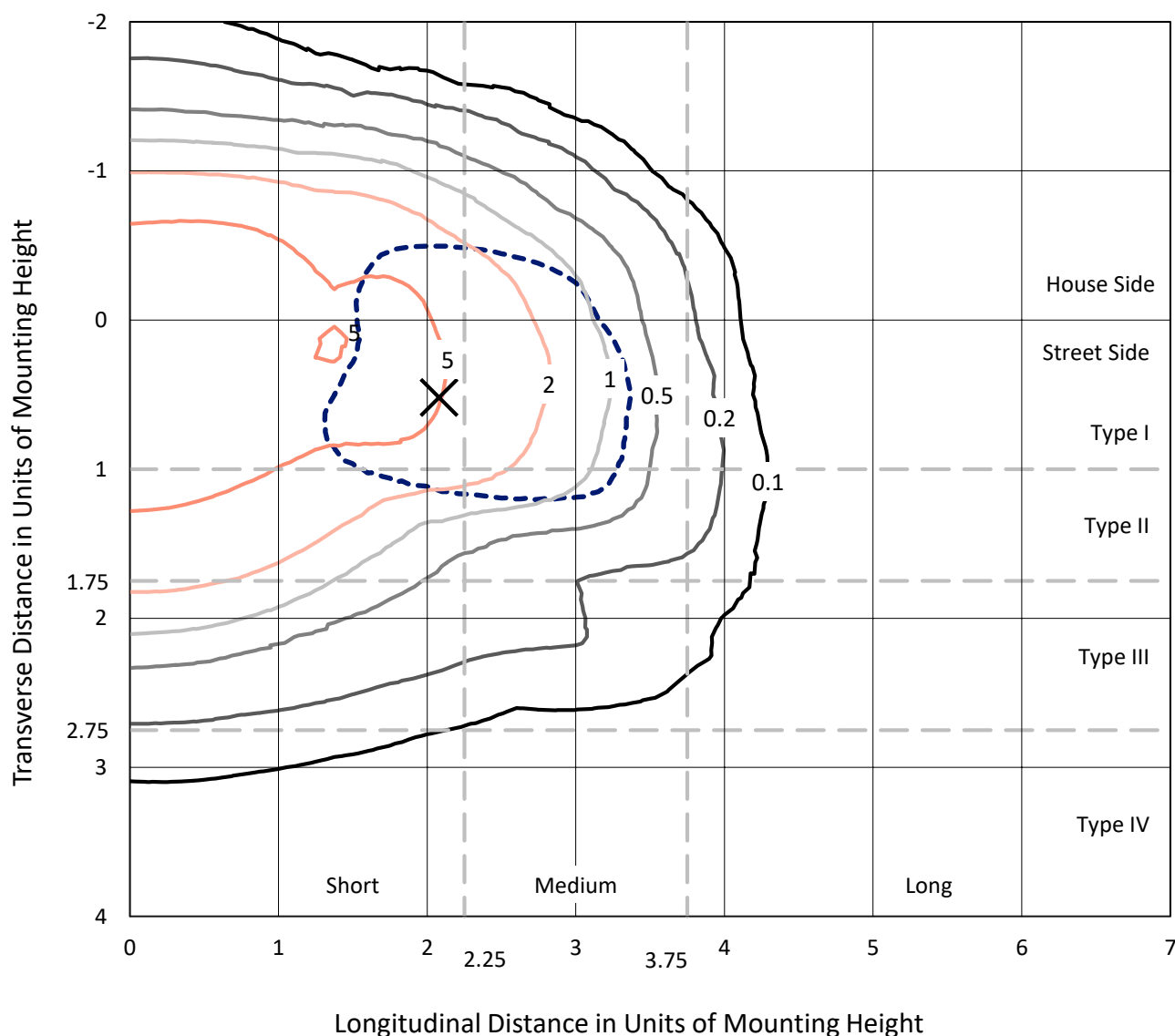


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

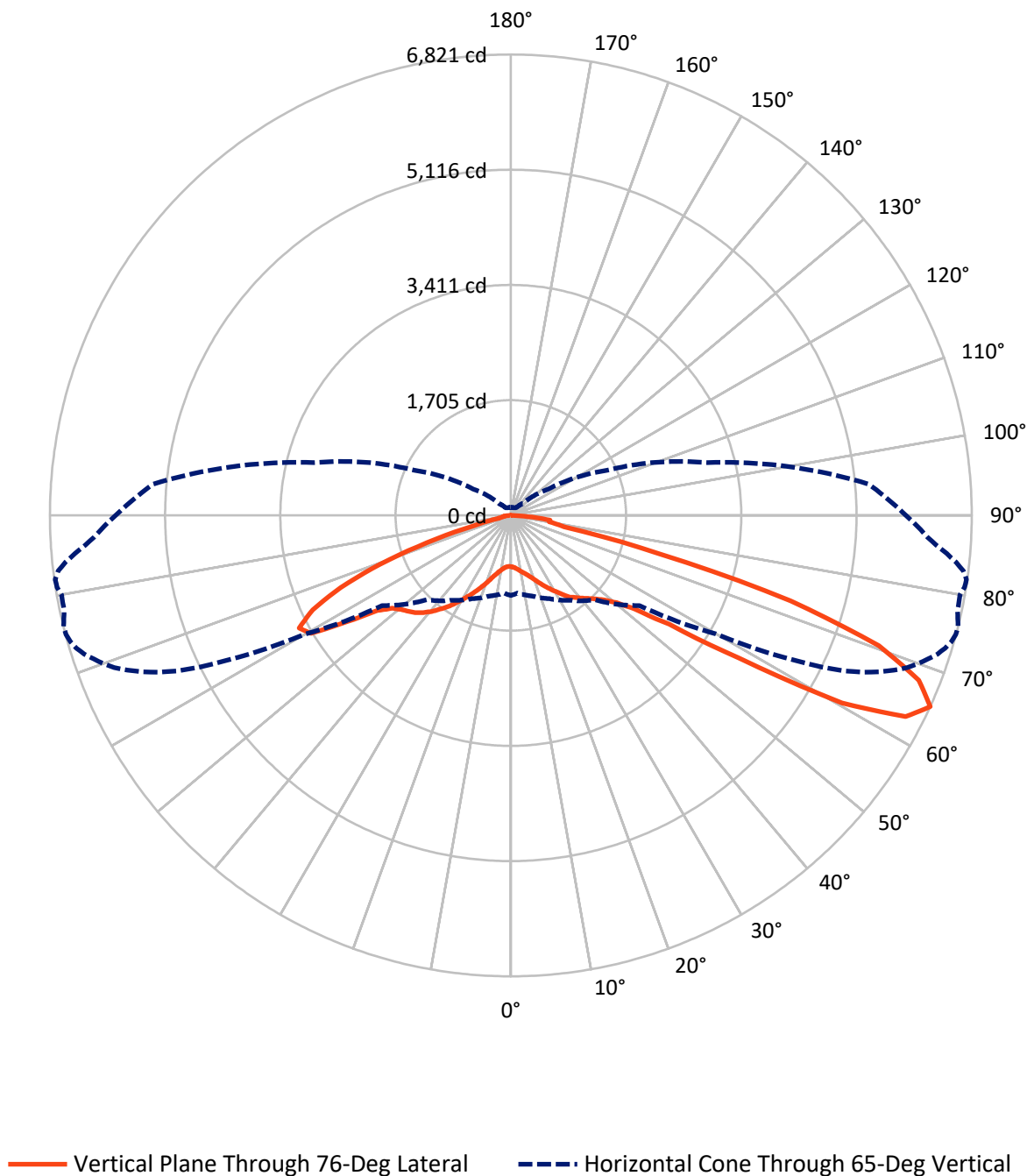


Based on 10 foot mounting height. Maximum calculated value = 9.3 fc
 Type II - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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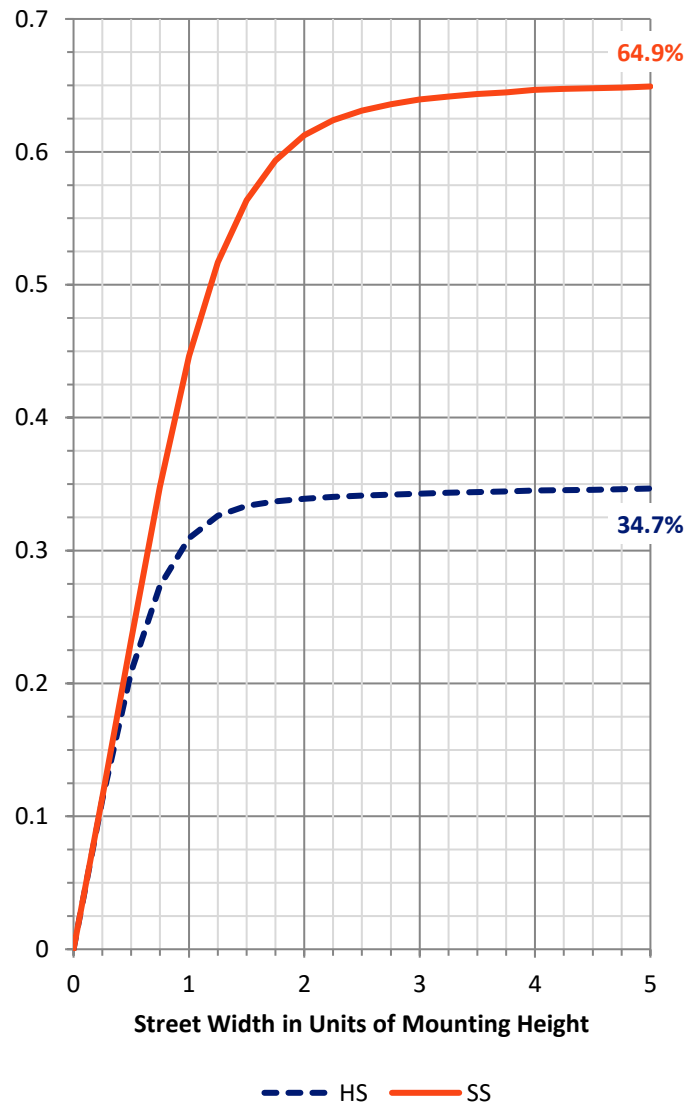
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2657.1	0.0	2657.1
	% Fixture	35.0	0.0	35.0
Street Side	Lumens	4930.8	0.0	4930.8
	% Fixture	65.0	0.0	65.0
Total	Lumens	7587.9	0.0	7587.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	76.0	1.0
10°-20°	260.9	3.4
20°-30°	512.6	6.8
30°-40°	851.8	11.2
40°-50°	1251.6	16.5
50°-60°	1732.9	22.8
60°-70°	2068.3	27.3
70°-80°	731.5	9.6
80°-90°	102.2	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°	7587.9	100.0
0°-180°	7587.9	100.0

Coefficient of Utilization



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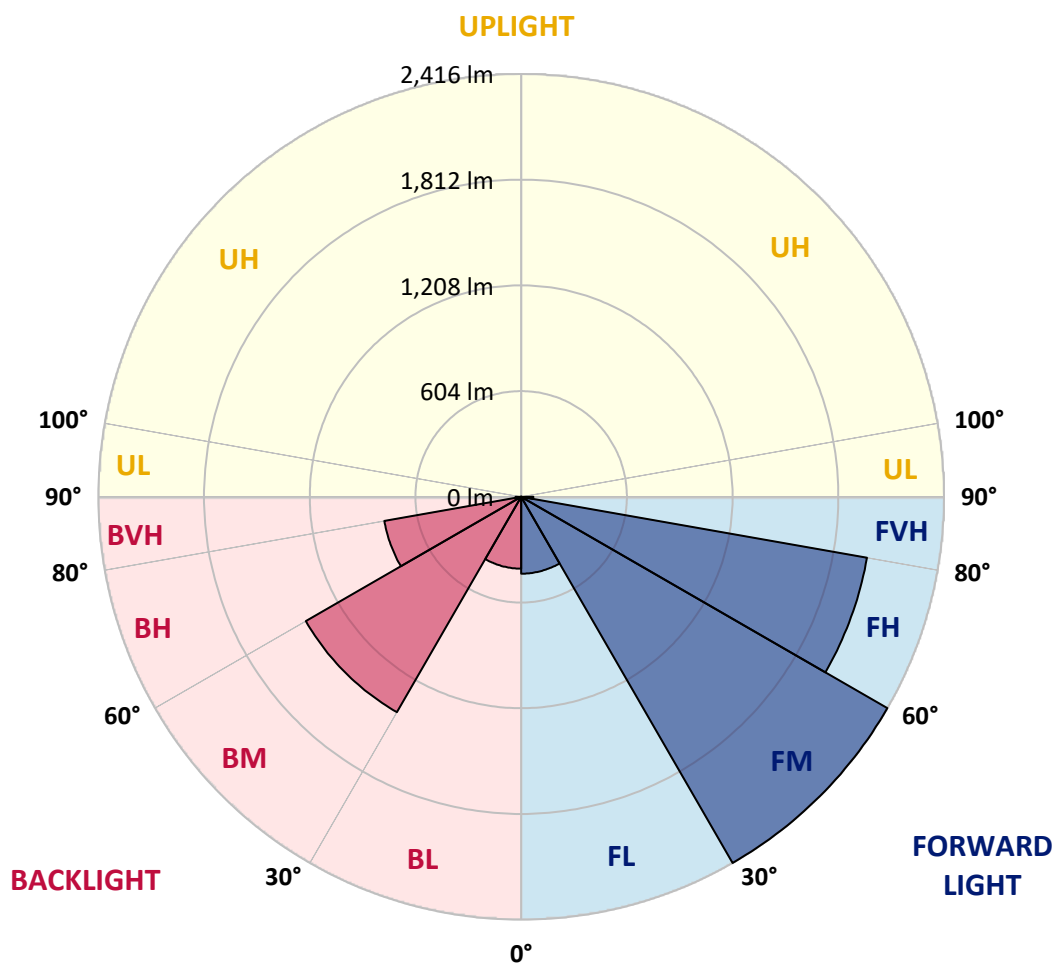
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	439.1	5.8			
FM	(30°-60°)	2415.7	31.8			
FH	(60°-80°)	2006.1	26.4			G2/5000
FVH	(80°-90°)	69.9	0.9			G1/100
BL	(0°-30°)	410.5	5.4	B1/500		
BM	(30°-60°)	1420.6	18.7	B2/2500		
BH	(60°-80°)	793.7	10.5	B2/1000		G2/1000
BVH	(80°-90°)	32.3	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°	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7
2.5°	791.7	792.5	790.9	790.1	787.6	783.4	780.1	776.8	776.8	776.8	774.3
5°	826.3	828.0	824.7	822.2	814.8	810.7	804.9	800.7	799.1	798.2	795.9
7.5°	870.1	867.7	862.7	861.0	855.2	846.1	835.4	827.2	827.2	826.3	827.2
10°	913.9	907.3	904.8	902.3	893.3	881.7	869.3	860.2	859.4	858.5	856.1
12.5°	957.6	955.1	952.6	943.5	934.5	916.4	902.3	893.3	892.4	893.3	889.9
15°	1015.4	1009.6	1007.2	991.5	971.6	951.8	934.5	926.2	923.7	924.6	922.1
17.5°	1060.0	1060.0	1054.2	1036.9	1011.3	984.0	965.9	960.9	960.1	960.1	960.9
20°	1095.4	1094.6	1088.9	1074.8	1044.2	1017.1	1008.0	1006.3	1005.5	1005.5	1008.0
22.5°	1115.2	1113.7	1111.2	1095.4	1071.5	1053.4	1054.2	1059.2	1060.8	1062.5	1065.8
25°	1125.2	1122.7	1121.9	1111.2	1093.8	1091.3	1106.2	1119.4	1122.7	1126.0	1130.2
27.5°	1141.7	1137.6	1139.3	1135.1	1131.0	1138.4	1168.9	1183.0	1185.5	1189.5	1192.0
30°	1187.2	1185.5	1192.0	1193.7	1197.0	1207.8	1235.9	1249.0	1254.8	1254.8	1266.3
32.5°	1273.8	1274.6	1276.3	1293.6	1299.4	1306.8	1321.7	1332.4	1333.3	1334.1	1344.8
35°	1390.2	1395.1	1409.2	1424.0	1438.0	1437.2	1428.2	1433.9	1429.8	1434.7	1435.5
37.5°	1537.1	1530.6	1551.2	1585.0	1606.4	1600.7	1560.2	1533.8	1541.2	1537.9	1535.4
40°	1650.3	1657.6	1697.3	1741.9	1758.3	1776.6	1723.7	1678.3	1671.7	1659.3	1651.9
42.5°	1806.2	1807.0	1839.3	1872.3	1920.2	1959.8	1925.9	1860.7	1840.9	1826.0	1793.9
45°	1950.7	1948.3	1974.6	2015.1	2072.0	2129.0	2141.5	2070.5	2063.0	2036.6	1994.5
47.5°	2047.3	2044.0	2062.2	2115.0	2207.5	2300.7	2351.9	2330.5	2316.4	2305.7	2239.7
50°	2112.5	2105.9	2126.5	2182.7	2285.9	2429.5	2563.2	2581.5	2575.6	2575.6	2533.6
52.5°	2161.2	2161.2	2176.1	2221.5	2326.3	2505.5	2744.9	2836.5	2843.9	2852.2	2849.7
55°	2134.0	2138.1	2175.2	2241.3	2351.9	2558.3	2895.1	3095.8	3137.0	3171.7	3211.3
57.5°	2040.7	2054.7	2104.2	2212.4	2358.5	2597.9	3061.9	3459.0	3575.3	3676.1	3833.0
60°	1904.5	1922.7	1994.5	2132.3	2309.8	2533.6	3120.5	3766.0	3951.0	4170.6	4580.0
62.5°	1670.9	1689.0	1759.2	1897.1	2048.9	2286.7	2877.8	3811.4	4106.9	4418.2	5037.3
65°	1183.8	1154.9	1235.9	1359.7	1533.8	1764.1	2325.5	3506.8	3932.0	4353.8	5118.2
67.5°	659.6	657.1	706.6	799.1	965.9	1213.5	1602.4	2689.5	3080.8	3558.9	4497.4
70°	454.8	459.8	491.2	591.1	728.9	942.8	1141.7	1689.0	1970.6	2294.9	3217.9
72.5°	319.5	330.3	347.6	406.9	548.2	794.2	1166.4	1009.6	1149.9	1371.2	1935.0
75°	187.4	194.8	207.3	236.1	312.0	530.8	1207.8	887.5	887.5	939.5	1170.6
77.5°	115.5	115.5	123.0	134.6	165.9	260.0	860.2	997.2	969.1	939.5	942.0
80°	59.5	63.5	74.3	80.1	92.4	118.9	386.3	930.4	1020.3	1080.6	1038.5
82.5°	27.3	30.6	45.4	48.7	53.7	62.7	133.0	529.1	709.1	933.7	1166.4
85°	14.0	14.0	23.9	29.7	32.2	28.9	48.7	213.8	323.6	493.7	772.6
87.5°	2.5	2.5	4.1	5.0	7.5	6.6	8.3	12.3	20.6	22.3	23.1
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°	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7
2.5°	773.5	774.3	773.5	772.6	771.1	771.1	771.1	770.3	770.3	770.3	769.4
5°	795.9	792.5	793.4	791.7	790.9	790.1	790.9	789.2	787.6	788.4	787.6
7.5°	823.8	822.2	819.0	819.0	818.1	816.5	816.5	814.0	813.2	811.5	810.7
10°	855.2	851.1	852.7	851.1	851.9	848.6	846.9	845.4	843.7	843.7	844.6
12.5°	887.5	886.6	884.1	882.5	882.5	880.0	880.8	880.0	877.5	876.7	874.2
15°	920.4	920.4	918.0	918.9	918.0	916.4	914.7	914.7	913.1	911.4	912.2
17.5°	959.3	959.3	959.3	959.3	960.1	957.6	958.4	956.8	955.1	958.4	958.4
20°	1009.6	1013.0	1013.0	1012.1	1016.3	1013.8	1013.0	1017.1	1013.0	1018.7	1017.8
22.5°	1067.4	1070.7	1070.7	1074.0	1074.8	1077.3	1079.0	1077.3	1080.6	1083.9	1083.9
25°	1131.8	1135.1	1137.6	1142.5	1145.0	1143.3	1144.1	1148.3	1149.9	1153.3	1156.6
27.5°	1199.5	1200.3	1203.6	1209.4	1213.5	1215.1	1216.0	1222.6	1223.4	1225.1	1228.4
30°	1265.5	1273.8	1272.1	1279.6	1282.1	1284.6	1289.4	1291.9	1297.7	1301.0	1301.0
32.5°	1343.1	1341.5	1348.1	1353.9	1358.0	1362.1	1366.2	1369.5	1372.8	1374.5	1382.8
35°	1439.7	1443.0	1443.0	1443.8	1453.8	1454.6	1457.9	1465.3	1467.8	1472.7	1476.1
37.5°	1535.4	1529.7	1528.9	1528.9	1525.6	1528.1	1528.9	1529.7	1533.0	1533.8	1537.1
40°	1642.8	1635.3	1628.8	1624.7	1618.0	1608.9	1607.3	1603.2	1605.6	1604.9	1605.6
42.5°	1789.7	1769.1	1753.4	1741.9	1728.6	1718.8	1711.3	1700.6	1693.2	1684.0	1682.4
45°	1977.1	1938.3	1911.9	1893.0	1874.0	1846.7	1831.0	1814.5	1799.7	1784.8	1772.4
47.5°	2223.1	2181.9	2139.8	2105.1	2075.3	2031.6	1987.0	1962.3	1933.4	1907.8	1889.6
50°	2512.8	2463.3	2443.5	2394.8	2357.7	2291.6	2236.4	2195.9	2138.1	2099.3	2065.5
52.5°	2809.2	2796.9	2786.1	2744.9	2701.1	2663.1	2614.4	2543.4	2484.9	2440.2	2370.9
55°	3213.0	3218.8	3214.6	3192.3	3176.6	3140.3	3120.5	3058.5	3032.1	2967.8	2895.1
57.5°	3892.3	3938.5	3997.2	4020.3	4051.7	4022.0	4056.6	4098.8	3993.9	4030.3	3965.0
60°	4760.0	4972.1	5098.4	5253.7	5355.1	5497.2	5522.8	5559.9	5549.2	5569.8	5611.9
62.5°	5289.9	5541.8	5783.6	5959.5	6147.7	6251.7	6377.2	6464.7	6555.5	6616.6	6599.3
65°	5446.0	5705.2	5924.8	6117.1	6285.6	6412.6	6529.1	6638.9	6722.3	6780.8	6815.5
67.5°	4873.1	5211.5	5442.7	5668.1	5885.2	6018.9	6116.3	6222.8	6345.0	6446.5	6466.3
70°	3666.9	4174.7	4502.4	4772.3	5027.5	5207.5	5343.6	5442.7	5537.6	5610.3	5689.5
72.5°	2293.3	2737.4	3112.2	3462.3	3733.1	3980.7	4095.4	4315.0	4286.1	4341.5	4400.8
75°	1374.5	1590.8	1797.2	2044.0	2186.0	2392.3	2429.5	2465.8	2446.8	2385.0	2431.2
77.5°	955.1	990.7	989.0	974.9	960.1	923.7	876.7	851.1	833.8	809.0	819.0
80°	960.9	884.1	766.9	644.8	532.4	458.1	428.5	428.5	459.0	502.7	546.5
82.5°	1148.3	1066.5	951.0	795.9	630.7	513.5	435.0	403.7	409.4	454.0	510.2
85°	774.3	792.5	695.1	635.6	503.5	392.1	328.6	266.6	236.1	243.5	275.8
87.5°	28.1	33.9	12.3	16.5	11.6	9.9	9.9	10.8	7.5	9.1	8.3
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°	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7
2.5°	768.6	767.8	767.8	766.1	766.1	765.3	765.3	764.5	763.6	763.6	762.8
5°	786.7	785.9	784.2	783.4	781.8	781.8	780.9	779.3	779.3	777.6	776.8
7.5°	812.3	810.7	809.0	808.2	807.4	804.9	804.9	803.2	803.2	801.6	800.7
10°	842.9	841.2	839.6	840.4	837.9	837.1	835.4	835.4	833.0	832.1	832.1
12.5°	875.9	875.0	875.0	872.5	871.7	870.9	867.7	867.7	867.7	866.0	866.8
15°	911.4	912.2	909.7	912.2	911.4	908.9	908.9	908.9	905.6	909.7	906.4
17.5°	959.3	961.8	960.1	960.9	959.3	959.3	960.1	959.3	960.9	960.9	965.9
20°	1018.7	1019.5	1023.6	1022.0	1022.0	1021.1	1022.8	1023.6	1026.9	1025.3	1028.6
22.5°	1083.9	1088.1	1088.9	1092.1	1092.1	1091.3	1093.0	1096.3	1097.9	1100.4	1099.6
25°	1158.2	1160.7	1164.0	1159.9	1166.4	1166.4	1168.1	1172.2	1173.1	1173.1	1178.9
27.5°	1227.6	1234.2	1235.0	1239.1	1236.7	1238.2	1244.0	1246.5	1249.8	1249.8	1251.5
30°	1306.0	1308.5	1310.2	1315.0	1314.2	1315.0	1315.9	1320.0	1320.0	1324.1	1328.3
32.5°	1386.8	1388.5	1390.2	1395.1	1396.8	1400.1	1398.4	1401.8	1405.9	1406.7	1409.2
35°	1483.4	1485.1	1486.7	1494.2	1495.0	1500.8	1502.5	1500.8	1507.4	1503.3	1507.4
37.5°	1539.6	1547.0	1548.7	1553.7	1552.0	1556.2	1558.5	1561.9	1563.5	1566.8	1573.5
40°	1608.1	1610.6	1615.5	1618.0	1621.3	1622.2	1625.5	1628.0	1630.4	1637.8	1645.3
42.5°	1678.3	1681.6	1684.0	1687.4	1691.5	1694.8	1697.3	1704.7	1706.3	1711.3	1725.4
45°	1763.3	1761.7	1762.5	1763.3	1765.0	1769.1	1776.6	1783.9	1788.9	1800.5	1812.0
47.5°	1869.0	1858.2	1854.1	1847.6	1849.2	1858.2	1859.9	1872.3	1882.2	1893.0	1906.9
50°	2029.1	2000.2	1982.9	1965.6	1963.9	1968.9	1975.4	1988.7	2000.2	2014.3	2034.1
52.5°	2298.2	2242.9	2208.3	2160.4	2147.2	2144.7	2139.8	2147.2	2150.5	2169.4	2206.6
55°	2843.1	2740.7	2674.7	2600.4	2531.1	2510.5	2470.8	2479.1	2470.8	2482.4	2537.6
57.5°	3980.7	3899.0	3834.6	3739.6	3620.7	3494.4	3463.1	3333.5	3359.1	3433.4	3385.5
60°	5632.5	5602.8	5556.6	5511.2	5348.6	5256.9	5107.6	5091.0	4986.2	4987.0	4918.4
62.5°	6557.1	6595.1	6567.0	6553.9	6544.8	6515.9	6441.6	6352.4	6218.7	6122.1	5980.1
65°	6821.3	6789.1	6758.5	6754.4	6751.9	6799.1	6809.7	6747.0	6625.7	6475.4	6311.9
67.5°	6513.4	6495.2	6496.9	6462.2	6483.6	6565.4	6622.4	6605.0	6493.6	6311.9	6103.9
70°	5780.3	5744.9	5781.1	5826.5	5858.8	5905.8	5962.8	5976.8	5875.2	5688.7	5476.6
72.5°	4328.2	4334.0	4368.7	4381.0	4510.7	4497.4	4548.6	4381.9	4308.4	4130.9	4022.0
75°	2277.6	2240.5	2337.1	2132.3	2048.1	2106.7	1942.5	1784.8	1817.8	1845.1	1648.6
77.5°	804.9	752.8	664.6	629.0	523.4	443.3	362.4	326.9	307.9	298.0	285.6
80°	577.8	594.4	576.2	533.3	453.3	363.2	286.4	226.2	194.0	176.7	165.1
82.5°	584.5	649.6	678.5	666.2	593.6	449.1	296.4	189.0	140.3	117.2	109.0
85°	313.7	343.4	330.3	278.2	250.2	149.4	102.4	68.5	57.8	52.8	48.7
87.5°	12.3	9.9	8.3	8.3	9.1	9.9	8.3	9.1	8.3	8.3	8.3
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°	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7	758.7
2.5°	761.1	761.1	761.1	760.3	758.7	754.5	750.4	747.2	744.7	742.2	738.9
5°	776.0	774.3	774.3	774.3	767.8	761.1	755.3	749.5	744.7	740.5	737.2
7.5°	800.7	799.9	796.6	795.9	790.9	780.1	773.5	763.6	757.8	752.0	750.4
10°	830.5	829.6	828.8	828.0	821.3	810.7	802.4	793.4	785.1	776.8	768.6
12.5°	865.2	864.4	863.5	861.0	858.5	852.7	843.7	833.8	823.8	806.5	797.4
15°	908.1	909.7	908.1	907.3	905.6	906.4	900.6	886.6	870.9	848.6	829.6
17.5°	965.1	963.4	962.6	965.9	965.1	969.1	967.6	949.3	925.4	889.9	856.9
20°	1027.8	1027.8	1031.1	1033.6	1041.0	1051.7	1046.7	1024.5	980.7	931.2	888.3
22.5°	1102.9	1104.6	1107.9	1106.2	1117.7	1135.1	1136.8	1105.4	1048.4	979.9	919.6
25°	1181.3	1183.0	1179.7	1184.7	1203.6	1228.4	1233.4	1188.7	1113.7	1024.5	946.0
27.5°	1255.6	1257.3	1257.3	1263.8	1282.1	1324.1	1329.1	1279.6	1179.7	1063.3	965.1
30°	1328.3	1334.9	1336.5	1338.1	1365.4	1424.0	1434.7	1362.9	1237.5	1092.1	978.2
32.5°	1419.9	1422.4	1425.7	1429.8	1461.1	1533.0	1533.0	1434.7	1274.6	1110.4	980.7
35°	1518.1	1519.0	1526.4	1527.3	1571.8	1643.6	1629.6	1494.2	1301.0	1106.2	962.6
37.5°	1577.6	1580.8	1588.3	1598.2	1645.3	1746.8	1714.6	1545.4	1306.0	1079.0	921.2
40°	1651.1	1657.6	1665.1	1675.0	1745.2	1851.6	1786.4	1577.6	1285.4	1025.3	859.4
42.5°	1730.3	1739.4	1751.0	1769.1	1852.4	1944.1	1840.9	1582.5	1238.2	965.1	785.9
45°	1819.5	1836.0	1849.2	1870.7	1964.8	2024.1	1874.0	1553.7	1178.9	885.8	707.5
47.5°	1922.7	1935.9	1959.0	1982.1	2076.2	2078.7	1877.2	1497.5	1097.9	806.5	624.1
50°	2049.7	2058.0	2092.7	2106.7	2195.0	2135.6	1853.3	1421.6	1013.0	717.4	531.6
52.5°	2219.0	2230.6	2275.1	2296.6	2359.4	2213.3	1819.5	1339.0	915.5	617.5	436.7
55°	2553.4	2603.7	2635.0	2672.2	2712.6	2389.1	1804.6	1250.7	805.7	502.0	345.9
57.5°	3492.0	3475.4	3544.8	3629.0	3628.2	2791.1	1893.8	1174.7	676.1	383.8	265.8
60°	4890.4	4906.1	4870.6	4920.9	4760.8	3289.7	2016.0	1094.6	529.9	285.6	203.1
62.5°	5929.7	5839.0	5788.6	5729.1	5376.7	3344.2	1926.7	930.4	385.5	200.6	156.1
65°	6175.8	6069.2	5961.1	5848.0	5316.4	3014.8	1580.8	682.7	249.3	137.8	123.8
67.5°	5933.1	5762.2	5624.4	5507.9	4871.4	2498.9	1155.8	419.4	142.8	111.4	105.7
70°	5304.0	5114.9	4892.0	4761.7	4102.1	1841.8	740.5	226.2	109.8	99.1	96.6
72.5°	3882.5	3727.3	3483.7	3334.3	2945.5	1119.4	413.6	127.2	102.4	94.9	91.6
75°	1512.3	1431.5	1329.9	1338.1	1194.5	495.3	187.4	109.8	99.9	93.3	89.9
77.5°	260.0	253.5	234.4	234.4	266.6	180.8	124.7	110.6	99.1	91.6	85.8
80°	156.1	152.7	145.3	143.6	138.7	127.2	119.7	112.2	97.4	86.6	79.3
82.5°	102.4	98.2	95.8	94.9	103.2	111.4	112.2	111.4	92.4	75.1	64.4
85°	43.7	43.7	43.7	44.6	59.5	89.9	92.4	99.1	76.0	58.7	46.2
87.5°	7.5	9.1	9.1	9.9	10.8	19.8	24.8	32.2	25.6	24.8	22.3
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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CATALOG NUMBER: VXS-F03-LED-E1-T2

CANDELA DISTRIBUTION (continued):

	165°	175°	180°
0°	758.7	758.7	758.7
2.5°	738.0	736.4	736.4
5°	735.5	733.9	734.7
7.5°	745.5	742.2	743.0
10°	763.6	760.3	758.7
12.5°	786.7	782.6	782.6
15°	810.7	800.7	799.9
17.5°	830.5	818.1	816.5
20°	852.7	836.3	833.8
22.5°	873.4	851.1	847.8
25°	888.3	861.0	856.9
27.5°	894.8	862.7	859.4
30°	899.8	863.5	858.5
32.5°	894.8	856.1	851.9
35°	867.7	825.5	823.0
37.5°	820.6	773.5	770.3
40°	758.7	709.1	700.8
42.5°	679.4	633.2	624.1
45°	602.6	549.8	545.7
47.5°	520.1	469.7	472.2
50°	433.4	388.0	387.2
52.5°	350.9	311.2	308.7
55°	276.6	248.5	246.0
57.5°	218.8	203.9	201.5
60°	178.3	170.9	168.4
62.5°	143.6	141.1	140.3
65°	119.7	119.7	119.7
67.5°	104.0	104.9	104.9
70°	95.8	96.6	95.8
72.5°	92.4	94.9	94.9
75°	89.9	91.6	88.3
77.5°	88.3	89.1	83.4
80°	87.5	86.6	76.0
82.5°	76.0	73.5	64.4
85°	69.3	52.8	44.6
87.5°	35.5	24.8	19.0
90°	0.0	0.0	0.0

(END OF REPORT)