

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: STREETWORKS

Report Number: P154214

Luminaire Tested: **AVM-F03-LED-E-U-T2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P154214
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33723)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVM-F03-LED-E-U-T2-HSS-7030
Description: VISION SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA W/ HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3622.1 lumens
Efficiency: N/A
Efficacy: 46.3 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

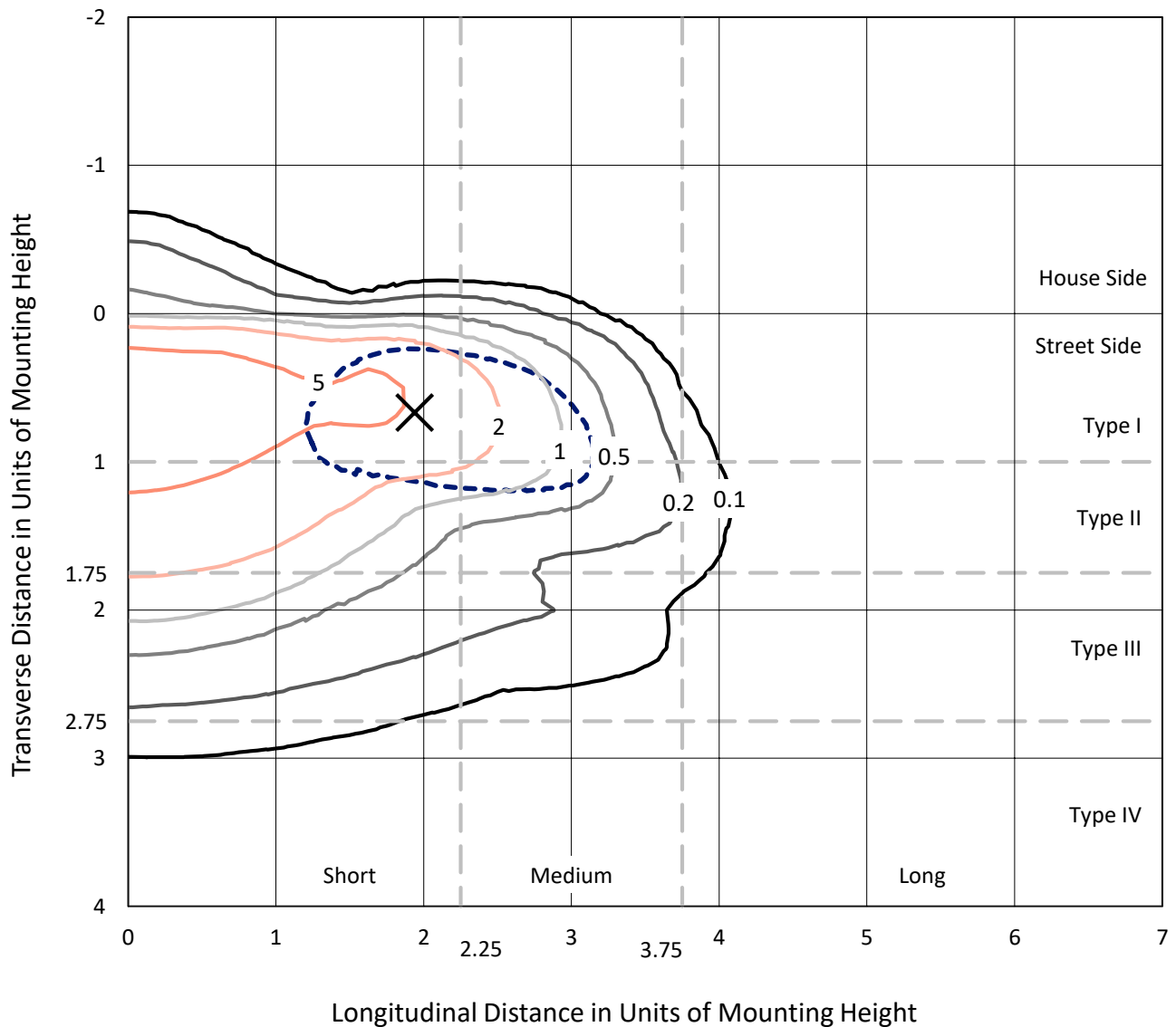
Input Watts (W): 78.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

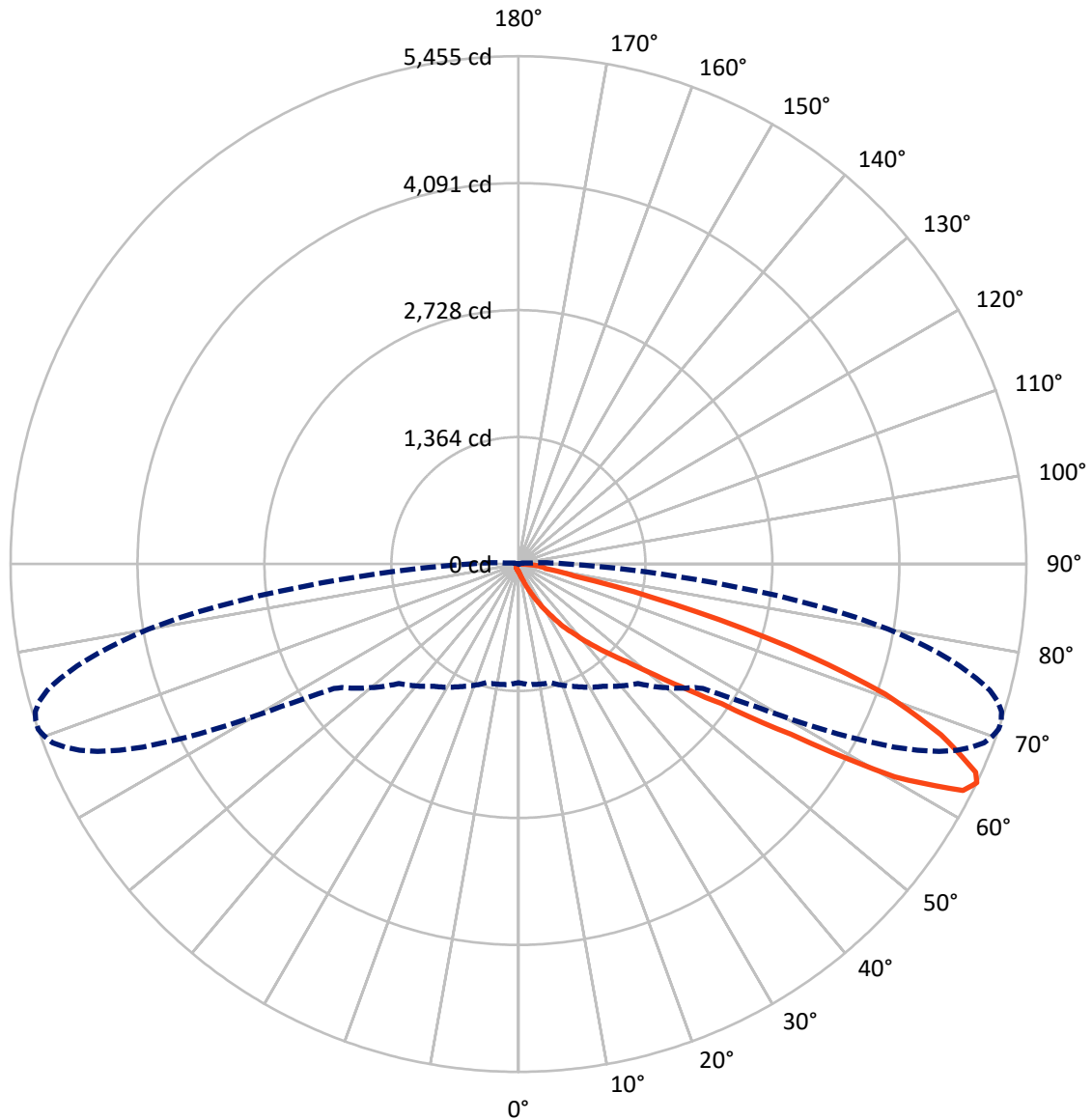
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.1 fc
 Type II - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

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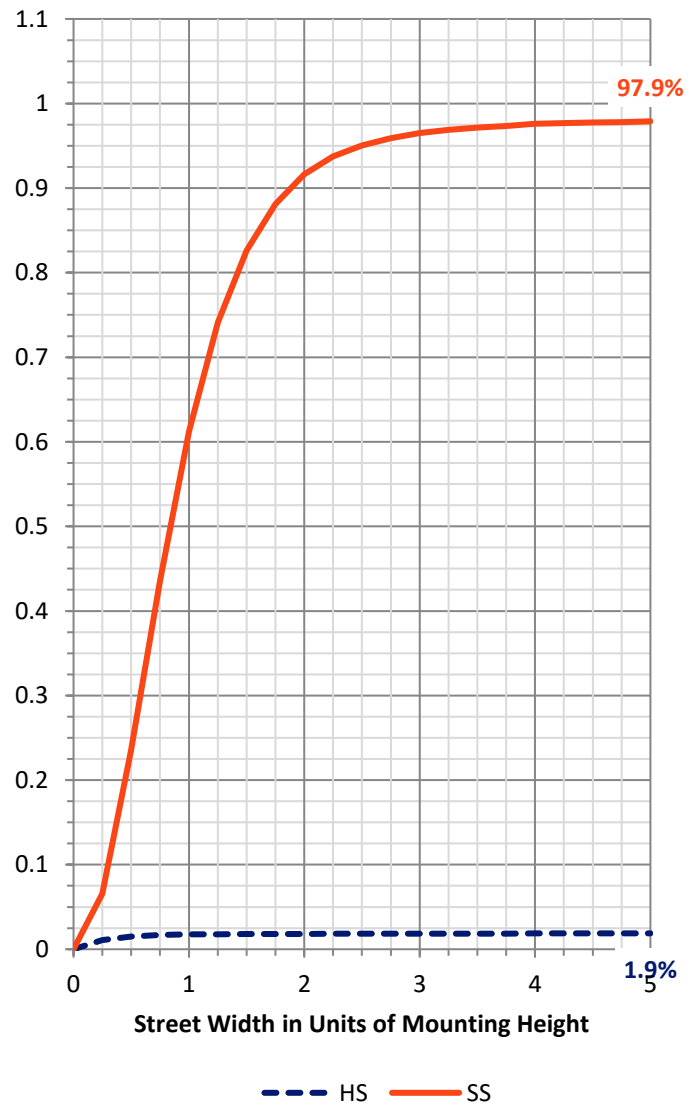
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	69.4	0.0	69.4
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	3552.8	0.0	3552.8
	% Fixture	98.1	0.0	98.1
Total	Lumens	3622.1	0.0	3622.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.1	0.3
10°-20°	65.5	1.8
20°-30°	167.3	4.6
30°-40°	338.3	9.3
40°-50°	618.5	17.1
50°-60°	963.6	26.6
60°-70°	1071.0	29.6
70°-80°	349.3	9.6
80°-90°	37.6	1.0
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°	3622.1	100.0
0°-180°	3622.1	100.0



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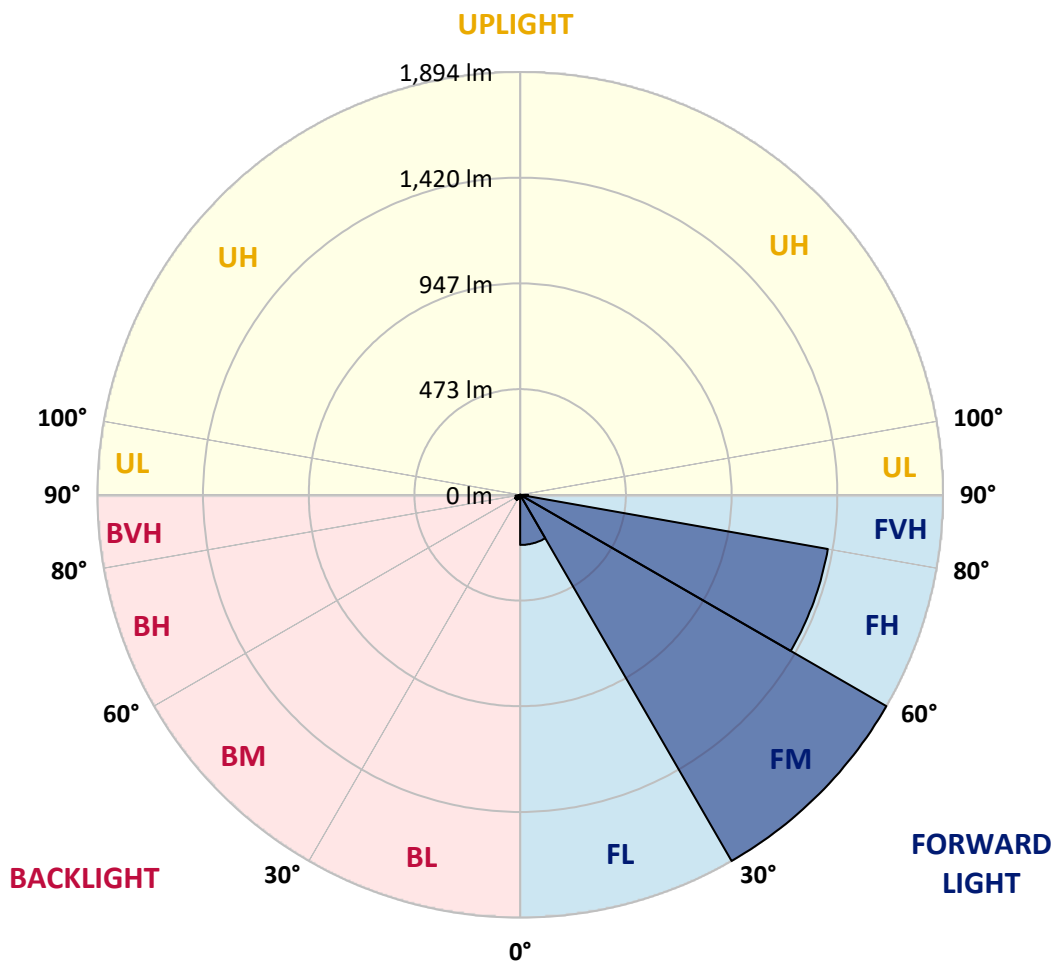
CATALOG NUMBER: AVM-F03-LED-E-U-T2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	224.6	6.2			
FM (30°-60°)	1893.5	52.3			
FH (60°-80°)	1398.9	38.6			G1/1800
FVH (80°-90°)	35.8	1.0			G1/100
BL (0°-30°)	19.3	0.5	B0/110		
BM (30°-60°)	26.8	0.7	B0/220		
BH (60°-80°)	21.4	0.6	B0/110		G0/110
BVH (80°-90°)	1.8	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
2.5°	108.6	107.1	107.1	104.8	101.8	98.8	95.8	95.0	94.2	93.5	93.5
5°	170.4	164.4	162.1	153.8	143.3	130.4	119.1	116.1	116.1	113.9	112.3
7.5°	267.7	264.7	248.8	240.5	215.6	184.7	152.3	149.3	148.5	145.5	141.0
10°	392.1	386.0	374.7	350.6	305.4	251.8	205.8	198.3	193.0	187.0	181.0
12.5°	516.5	508.9	492.4	453.2	407.9	339.3	265.4	258.6	250.3	242.0	232.2
15°	640.9	635.6	610.0	570.8	512.0	429.8	336.3	324.2	317.4	300.8	293.3
17.5°	748.7	741.9	721.6	677.1	616.0	525.5	414.7	399.6	388.3	378.5	360.4
20°	842.2	835.4	815.8	778.9	710.3	621.3	499.1	491.6	471.2	456.2	445.6
22.5°	899.5	897.3	884.4	849.0	787.9	708.8	595.7	583.6	570.0	549.7	537.6
25°	935.0	932.7	925.1	900.3	858.8	800.7	702.0	686.9	674.8	656.7	641.6
27.5°	971.9	970.4	964.4	942.5	920.6	884.4	809.8	801.5	775.1	764.5	750.2
30°	1033.0	1026.2	1031.5	1020.9	993.0	970.4	918.4	906.3	895.0	876.9	864.1
32.5°	1130.2	1118.9	1130.2	1118.9	1106.9	1079.7	1030.0	1026.2	1014.9	1003.6	985.5
35°	1249.4	1244.8	1253.9	1263.7	1253.9	1217.7	1157.4	1146.1	1141.5	1123.5	1116.7
37.5°	1369.3	1377.5	1394.1	1416.0	1410.0	1383.6	1298.4	1287.8	1279.5	1263.7	1251.6
40°	1498.2	1498.9	1534.4	1566.0	1581.9	1566.0	1453.7	1445.4	1434.1	1411.5	1408.5
42.5°	1638.4	1632.4	1658.8	1694.2	1726.6	1748.5	1658.8	1643.0	1627.1	1601.5	1584.1
45°	1762.8	1762.8	1783.9	1817.1	1866.9	1921.9	1875.2	1858.6	1843.5	1822.4	1802.8
47.5°	1854.8	1855.6	1868.4	1916.7	1994.3	2076.5	2078.0	2081.0	2069.7	2044.8	2045.6
50°	1919.7	1911.4	1928.7	1975.5	2065.2	2194.1	2286.9	2292.1	2301.2	2280.8	2286.9
52.5°	1967.2	1963.4	1974.7	2013.9	2103.6	2261.2	2458.0	2480.6	2494.2	2497.2	2522.1
55°	1942.3	1944.5	1971.7	2028.2	2124.8	2305.7	2603.5	2640.5	2672.2	2699.3	2730.2
57.5°	1860.1	1866.9	1914.4	2002.6	2129.3	2341.9	2758.1	2814.7	2874.2	2946.6	3007.7
60°	1728.9	1744.7	1808.8	1932.5	2085.5	2294.4	2804.1	2890.8	2982.0	3092.1	3215.0
62.5°	1536.6	1539.7	1581.9	1701.8	1870.7	2041.8	2593.0	2703.8	2824.5	2983.6	3155.5
64°	1273.5	1300.6	1320.2	1452.2	1603.0	1816.4	2314.0	2390.9	2559.1	2754.3	2970.7
65°	1051.1	1083.5	1099.3	1231.3	1403.9	1607.5	2071.2	2153.4	2330.6	2528.9	2798.8
67.5°	619.8	597.9	643.9	721.6	866.3	1107.6	1397.1	1459.7	1591.7	1827.7	2043.3
70°	399.6	399.6	441.8	521.0	655.2	839.9	959.8	933.4	961.3	1052.6	1204.9
72.5°	256.4	269.9	295.6	362.7	487.1	704.2	980.9	856.5	791.7	761.5	760.0
75°	116.9	124.4	152.3	192.3	260.1	459.2	989.2	935.0	875.4	818.1	773.6
77.5°	24.9	28.7	48.3	99.5	126.7	211.9	702.0	783.4	848.2	867.1	867.1
80°	12.8	13.6	20.4	46.7	54.3	71.6	270.7	355.9	438.8	548.2	662.8
82.5°	5.3	6.0	12.1	21.1	22.6	21.9	71.6	90.5	124.4	181.0	269.9
85°	1.5	1.5	5.3	8.3	12.1	9.8	15.8	18.1	23.4	33.9	64.8
87.5°	0.0	0.0	0.8	1.5	2.3	3.8	4.5	4.5	4.5	4.5	4.5
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
2.5°	92.7	92.7	92.0	91.2	91.2	89.7	89.7	89.0	89.0	88.2	88.2
5°	111.6	110.1	108.6	106.3	105.6	104.1	102.5	101.0	99.5	98.8	97.3
7.5°	138.7	137.2	132.7	129.7	125.9	123.7	120.6	118.4	116.1	114.6	111.6
10°	174.9	169.6	167.4	156.8	154.6	149.3	144.8	141.8	135.7	131.9	128.2
12.5°	226.2	216.4	212.6	194.5	189.3	181.7	176.4	168.9	162.1	157.6	150.8
15°	284.3	276.7	262.4	244.3	234.5	226.2	213.4	207.3	198.3	188.5	178.7
17.5°	353.6	340.1	324.2	300.8	288.8	276.0	263.9	251.1	236.0	227.0	216.4
20°	434.3	420.0	400.4	371.0	356.6	343.8	322.7	313.7	295.6	277.5	263.9
22.5°	522.5	508.2	489.3	456.2	437.3	416.2	398.9	383.0	361.9	343.8	328.0
25°	622.0	605.5	591.1	552.7	529.3	507.4	488.6	460.7	442.6	421.5	399.6
27.5°	735.1	715.5	696.7	654.5	632.6	608.5	585.9	556.4	539.1	504.4	484.1
30°	851.3	827.1	807.5	764.5	744.9	720.1	689.2	662.8	633.4	610.0	576.8
32.5°	973.4	953.8	938.0	892.7	867.8	836.9	809.0	781.1	755.5	717.8	687.6
35°	1103.8	1086.5	1069.2	1030.0	1008.1	984.7	953.0	919.1	883.7	844.5	817.3
37.5°	1241.1	1227.5	1213.9	1166.4	1140.8	1115.9	1079.7	1045.8	1014.1	972.7	926.7
40°	1385.1	1372.3	1350.4	1311.2	1284.1	1261.4	1228.3	1196.6	1153.6	1107.6	1066.9
42.5°	1566.0	1538.1	1519.3	1476.3	1447.7	1422.8	1393.4	1345.9	1309.7	1254.6	1215.4
45°	1777.9	1751.5	1720.6	1676.9	1641.4	1600.7	1559.3	1526.8	1481.6	1431.8	1381.3
47.5°	2016.2	1995.1	1958.9	1915.9	1880.5	1839.7	1790.7	1749.3	1694.2	1636.2	1567.6
50°	2278.6	2256.7	2232.6	2184.3	2148.9	2110.4	2072.0	2023.0	1973.2	1903.8	1833.0
52.5°	2522.1	2526.6	2512.3	2489.7	2472.3	2432.4	2396.9	2350.2	2306.5	2243.1	2188.1
55°	2762.6	2801.8	2816.9	2838.8	2846.3	2813.9	2813.1	2744.5	2718.1	2681.2	2649.5
57.5°	3080.1	3166.8	3235.4	3368.1	3423.9	3480.4	3491.0	3442.7	3492.5	3428.4	3450.3
60°	3350.0	3509.1	3679.5	4022.6	4194.5	4324.2	4428.2	4505.1	4554.9	4639.3	4643.8
62.5°	3374.1	3624.4	3883.8	4384.5	4619.7	4816.5	5004.3	5135.4	5239.5	5335.3	5358.6
64°	3258.8	3568.7	3883.8	4489.3	4729.8	4948.5	5119.6	5250.1	5356.4	5415.9	5455.1
65°	3049.1	3396.0	3758.7	4419.9	4668.0	4900.2	5063.8	5195.0	5295.3	5354.9	5395.6
67.5°	2259.0	2594.5	2958.7	3728.5	4119.1	4331.7	4541.3	4725.3	4806.0	4881.4	4895.7
70°	1376.8	1620.3	1871.4	2585.4	2948.1	3330.4	3566.4	3835.6	4024.1	4140.2	4178.6
72.5°	830.9	915.3	1065.4	1449.2	1796.8	2065.2	2391.7	2648.8	2859.9	2976.8	3035.6
75°	739.7	729.1	748.7	908.6	1032.2	1193.6	1311.9	1473.3	1603.7	1644.5	1720.6
77.5°	855.0	824.9	794.0	763.8	757.8	742.7	718.6	724.6	667.3	612.2	613.8
80°	761.5	833.9	876.9	845.2	773.6	701.2	612.2	501.4	392.1	324.2	295.6
82.5°	382.3	543.6	699.0	852.8	842.2	778.1	680.1	558.7	432.8	332.5	265.4
85°	117.6	208.9	294.1	408.7	474.3	465.2	408.7	397.4	283.5	220.9	170.4
87.5°	5.3	5.3	5.3	4.5	5.3	5.3	5.3	6.0	6.0	6.8	6.8
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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CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
2.5°	88.2	87.5	86.7	86.0	86.0	86.0	85.2	85.2	84.4	84.4	83.7
5°	97.3	95.8	95.0	93.5	93.5	92.0	91.2	90.5	89.0	88.2	87.5
7.5°	109.3	107.8	105.6	103.3	102.5	100.3	98.0	96.5	95.0	93.5	92.0
10°	125.2	122.1	117.6	114.6	112.3	109.3	106.3	104.1	101.0	98.0	96.5
12.5°	145.5	139.5	135.0	129.7	125.2	120.6	115.4	112.3	109.3	104.8	101.8
15°	168.9	162.9	157.6	148.5	141.0	135.0	130.4	123.7	118.4	112.3	107.8
17.5°	208.9	193.0	182.5	173.4	165.9	154.6	145.5	138.0	131.2	123.7	118.4
20°	248.1	234.5	220.2	209.6	193.0	183.2	171.2	160.6	148.5	139.5	130.4
22.5°	305.4	288.0	269.9	254.1	231.5	217.9	202.1	188.5	173.4	158.3	148.5
25°	377.8	352.1	328.0	305.4	284.3	263.9	243.5	221.7	205.8	187.7	171.2
27.5°	453.9	425.3	401.9	372.5	345.3	320.4	294.8	271.4	244.3	220.9	201.3
30°	549.7	510.5	483.3	447.9	420.7	386.0	354.4	323.5	290.3	263.1	235.2
32.5°	646.9	620.5	574.5	544.4	503.7	462.2	429.0	393.6	352.9	317.4	283.5
35°	775.1	729.9	691.4	649.2	604.7	561.7	518.7	468.2	426.8	383.0	341.6
37.5°	888.2	842.2	797.7	742.7	692.2	646.9	594.9	542.1	493.1	441.1	391.3
40°	1019.4	962.1	909.3	858.0	795.5	741.9	687.6	622.0	565.5	508.2	449.4
42.5°	1162.7	1104.6	1042.0	983.2	914.6	849.0	781.9	716.3	653.0	583.6	515.0
45°	1319.5	1258.4	1188.3	1121.2	1046.5	974.2	894.2	818.8	744.2	666.5	587.4
47.5°	1514.0	1435.6	1370.8	1287.1	1194.3	1118.2	1020.2	934.2	849.0	758.5	669.5
50°	1765.9	1676.9	1583.4	1490.6	1388.1	1291.6	1183.0	1081.2	967.4	866.3	764.5
52.5°	2099.9	2033.5	1924.9	1818.6	1693.5	1570.6	1421.3	1289.3	1143.1	1014.1	889.7
55°	2574.1	2530.4	2436.2	2320.0	2210.7	2031.3	1859.3	1654.3	1464.3	1278.8	1103.8
57.5°	3432.9	3385.4	3280.6	3252.7	3084.6	2952.6	2751.3	2485.9	2164.0	1880.5	1597.7
60°	4669.5	4576.7	4474.2	4455.3	4257.8	4119.1	3919.3	3636.5	3333.4	2881.0	2495.7
62.5°	5360.1	5332.2	5249.3	5147.5	4976.4	4770.5	4545.8	4272.1	3964.5	3567.9	3109.5
64°	5452.9	5427.2	5355.6	5241.0	5069.1	4864.8	4615.9	4343.0	4034.6	3672.7	3254.2
65°	5394.8	5358.6	5297.6	5192.0	5032.2	4836.1	4585.8	4309.1	3996.2	3647.8	3258.8
67.5°	4926.6	4910.0	4854.2	4756.2	4655.9	4479.5	4259.3	4012.0	3756.4	3411.1	3092.1
70°	4183.2	4171.1	4100.2	4061.0	3895.1	3783.5	3605.6	3411.1	3184.9	2944.3	2672.9
72.5°	3101.2	3060.5	3003.2	2943.6	2831.2	2678.2	2539.5	2332.1	2215.2	2012.4	1859.3
75°	1644.5	1618.8	1529.9	1405.4	1266.7	1195.1	1051.1	922.1	819.6	773.6	662.8
77.5°	568.5	518.0	468.2	412.4	327.2	257.9	205.8	164.4	129.7	114.6	95.8
80°	283.5	269.2	253.3	221.7	186.2	150.0	117.6	92.7	76.2	64.8	58.1
82.5°	230.0	203.6	181.7	159.1	127.4	104.8	82.9	67.9	55.8	49.0	43.0
85°	135.7	104.1	79.2	71.6	55.8	48.3	41.5	35.4	30.2	28.7	26.4
87.5°	5.3	6.8	6.8	5.3	6.8	6.0	6.0	5.3	5.3	5.3	5.3
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7	80.7
2.5°	83.7	82.9	82.9	82.2	81.4	81.4	81.4	80.7	79.2	76.2	73.9
5°	86.7	86.0	85.2	83.7	82.9	82.2	81.4	81.4	77.7	72.4	68.6
7.5°	90.5	89.0	87.5	86.0	85.2	83.7	82.2	81.4	76.2	69.4	65.6
10°	94.2	92.0	89.7	89.0	86.7	85.2	82.9	81.4	75.4	67.1	61.8
12.5°	98.8	95.8	92.7	90.5	87.5	86.0	83.7	81.4	73.9	64.8	58.8
15°	104.1	99.5	95.8	93.5	90.5	86.7	83.7	81.4	72.4	62.6	55.8
17.5°	110.8	105.6	101.0	96.5	92.0	88.2	85.2	82.2	70.1	59.6	52.0
20°	121.4	114.6	107.1	101.8	95.8	91.2	86.0	82.2	68.6	56.5	49.0
22.5°	135.7	125.2	116.9	107.8	100.3	94.2	88.2	83.7	66.4	53.5	45.2
25°	156.1	142.5	128.9	117.6	107.8	99.5	92.0	86.0	64.8	51.3	43.0
27.5°	178.7	162.9	144.8	131.2	117.6	105.6	97.3	89.7	64.8	49.8	40.7
30°	210.4	187.7	165.9	148.5	130.4	116.9	104.8	95.0	64.8	49.0	38.5
32.5°	248.8	223.2	195.3	170.4	149.3	129.7	114.6	101.8	66.4	47.5	36.9
35°	302.4	264.7	231.5	200.6	172.7	150.0	130.4	113.1	68.6	46.7	34.7
37.5°	344.6	299.3	257.1	221.7	189.3	161.4	136.5	117.6	66.4	43.7	32.4
40°	395.1	343.8	292.5	248.1	211.1	174.9	146.3	123.7	64.8	40.0	29.4
42.5°	456.2	392.1	332.5	282.0	236.0	193.0	159.1	131.2	64.8	37.7	27.1
45°	513.5	443.3	377.0	313.7	260.1	212.6	171.2	139.5	64.1	35.4	24.1
47.5°	584.3	501.4	423.7	350.6	288.8	230.7	184.0	147.0	63.3	33.2	21.9
50°	668.0	567.0	479.5	392.1	316.7	252.6	199.1	155.3	61.8	30.9	19.6
52.5°	760.8	652.2	540.6	439.6	351.4	276.0	213.4	162.9	59.6	28.7	17.3
55°	925.1	775.9	643.9	518.7	404.1	310.6	234.5	174.2	57.3	26.4	15.1
57.5°	1319.5	1072.2	885.2	696.7	532.3	398.9	291.8	206.6	54.3	23.4	12.1
60°	2072.0	1664.1	1346.6	1056.3	805.3	612.2	429.8	305.4	58.1	19.6	10.6
62.5°	2657.8	2188.8	1784.7	1420.5	1103.1	838.4	625.8	456.2	83.7	17.3	8.3
64°	2810.9	2335.9	1904.6	1523.1	1192.8	919.9	698.2	515.7	107.8	17.3	7.5
65°	2833.5	2381.1	1947.6	1560.8	1223.7	941.7	719.3	535.3	117.6	18.1	6.8
67.5°	2740.0	2354.7	1960.4	1576.6	1247.1	971.9	748.0	566.2	132.7	17.3	5.3
70°	2393.2	2109.7	1785.5	1474.8	1176.2	923.6	719.3	548.9	138.7	16.6	4.5
72.5°	1628.6	1433.3	1241.8	1021.7	818.8	674.8	524.8	386.8	97.3	13.6	3.8
75°	542.9	529.3	473.5	358.9	301.6	245.0	196.0	150.8	36.9	8.3	3.8
77.5°	90.5	77.7	67.9	64.8	54.3	52.8	46.0	36.9	15.8	5.3	3.8
80°	52.8	48.3	42.2	37.7	33.2	29.4	24.9	21.1	9.8	3.8	4.5
82.5°	39.2	34.7	30.9	27.1	23.4	20.4	17.3	14.3	5.3	3.8	4.5
85°	22.6	19.6	17.3	15.1	12.1	10.6	9.0	7.5	3.8	3.8	3.8
87.5°	4.5	4.5	3.8	3.8	3.8	3.8	3.8	3.0	3.8	3.8	3.0
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: AVM-F03-LED-E-U-T2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	80.7	80.7	80.7	80.7	80.7	80.7	80.7
2.5°	72.4	70.1	69.4	69.4	69.4	69.4	69.4
5°	66.4	64.1	62.6	61.8	61.8	61.8	61.8
7.5°	61.8	58.8	57.3	55.8	55.8	55.0	55.0
10°	57.3	54.3	52.0	50.5	49.8	49.8	49.8
12.5°	53.5	50.5	47.5	46.0	46.0	45.2	45.2
15°	50.5	46.0	43.7	42.2	42.2	41.5	41.5
17.5°	46.7	43.0	40.7	39.2	38.5	38.5	38.5
20°	43.0	39.2	36.9	36.2	35.4	35.4	34.7
22.5°	40.0	36.2	33.9	33.2	32.4	32.4	31.7
25°	36.9	33.2	30.9	30.2	29.4	28.7	28.7
27.5°	34.7	30.9	28.7	27.1	26.4	25.6	25.6
30°	32.4	27.9	25.6	24.1	23.4	22.6	22.6
32.5°	30.2	25.6	22.6	21.1	20.4	19.6	19.6
35°	27.1	22.6	19.6	18.8	18.1	17.3	16.6
37.5°	24.9	19.6	17.3	15.8	15.1	14.3	14.3
40°	21.9	17.3	15.1	13.6	12.1	11.3	11.3
42.5°	19.6	15.1	12.8	10.6	9.8	9.0	9.0
45°	17.3	13.6	10.6	8.3	7.5	6.8	6.8
47.5°	15.1	11.3	8.3	6.8	6.0	5.3	5.3
50°	12.8	9.0	6.0	4.5	5.3	4.5	4.5
52.5°	11.3	6.8	4.5	4.5	4.5	4.5	4.5
55°	9.0	5.3	3.8	3.8	4.5	4.5	4.5
57.5°	7.5	3.8	3.0	3.8	3.8	3.8	3.8
60°	5.3	3.0	3.0	3.8	3.8	3.8	3.8
62.5°	4.5	3.0	3.0	3.0	3.8	3.8	3.8
64°	3.8	3.0	3.0	3.0	3.8	3.8	3.8
65°	3.8	3.0	3.0	3.0	3.8	3.8	3.8
67.5°	3.8	3.0	3.0	3.0	3.8	3.8	3.8
70°	3.0	3.0	3.0	3.0	3.8	3.8	3.8
72.5°	3.0	3.0	3.0	3.0	3.8	3.8	3.8
75°	3.0	3.0	3.0	3.0	3.8	3.8	3.8
77.5°	3.0	3.0	3.0	3.8	3.8	3.8	3.8
80°	3.0	3.0	3.0	3.8	3.8	3.8	3.8
82.5°	3.0	3.0	3.0	3.8	3.8	3.8	3.8
85°	3.0	3.0	3.0	3.8	3.8	3.8	3.8
87.5°	3.0	3.0	3.0	3.8	3.8	3.8	3.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)