

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: P154224

Luminaire Tested: **AVM-F04-LED-E-U-T2-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P154224
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-F04-LED-E-U-T2-HSS-7030
Description: VISION SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA W/ HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4829.4 lumens
Efficiency: N/A
Efficacy: 47.3 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

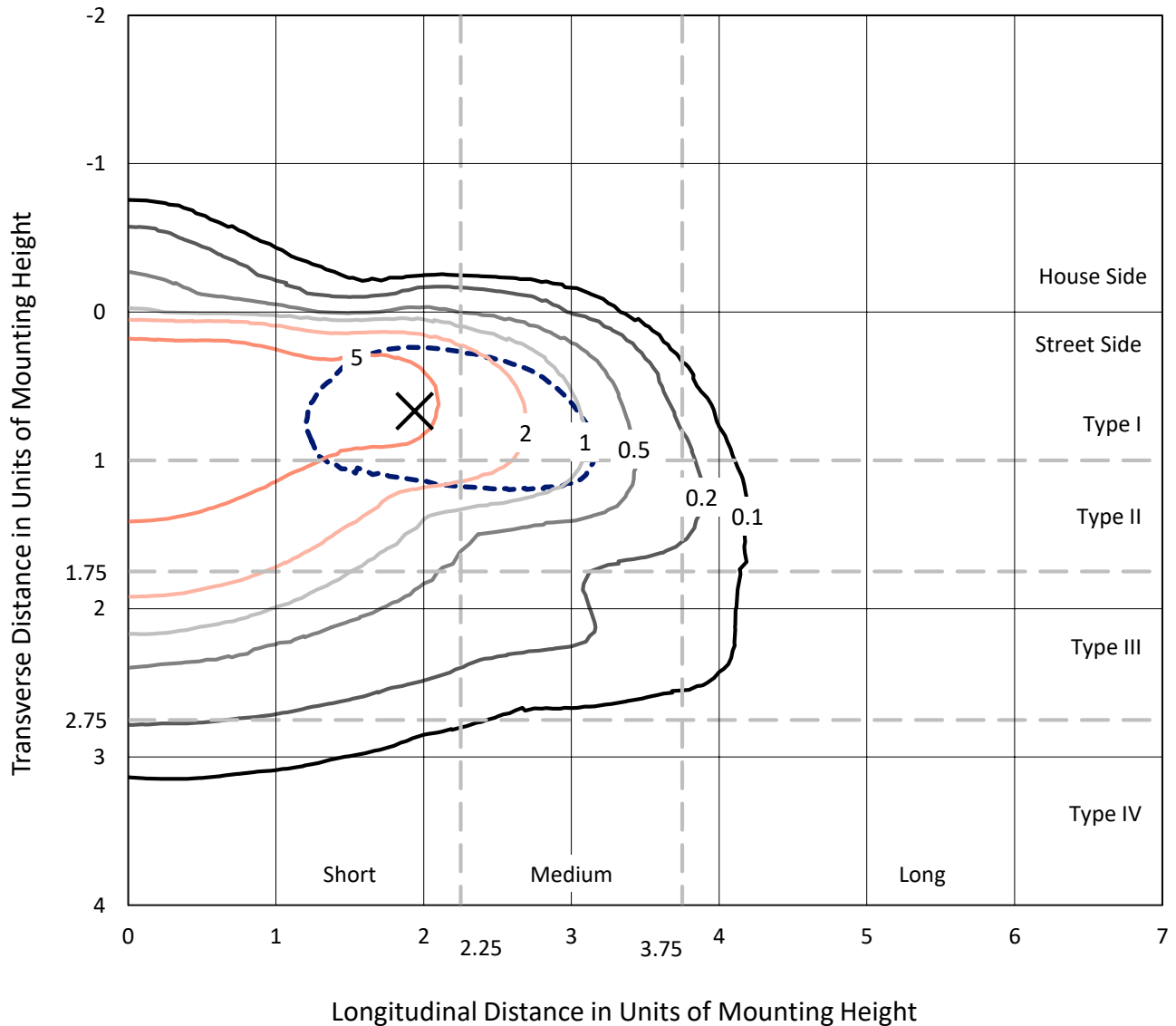
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

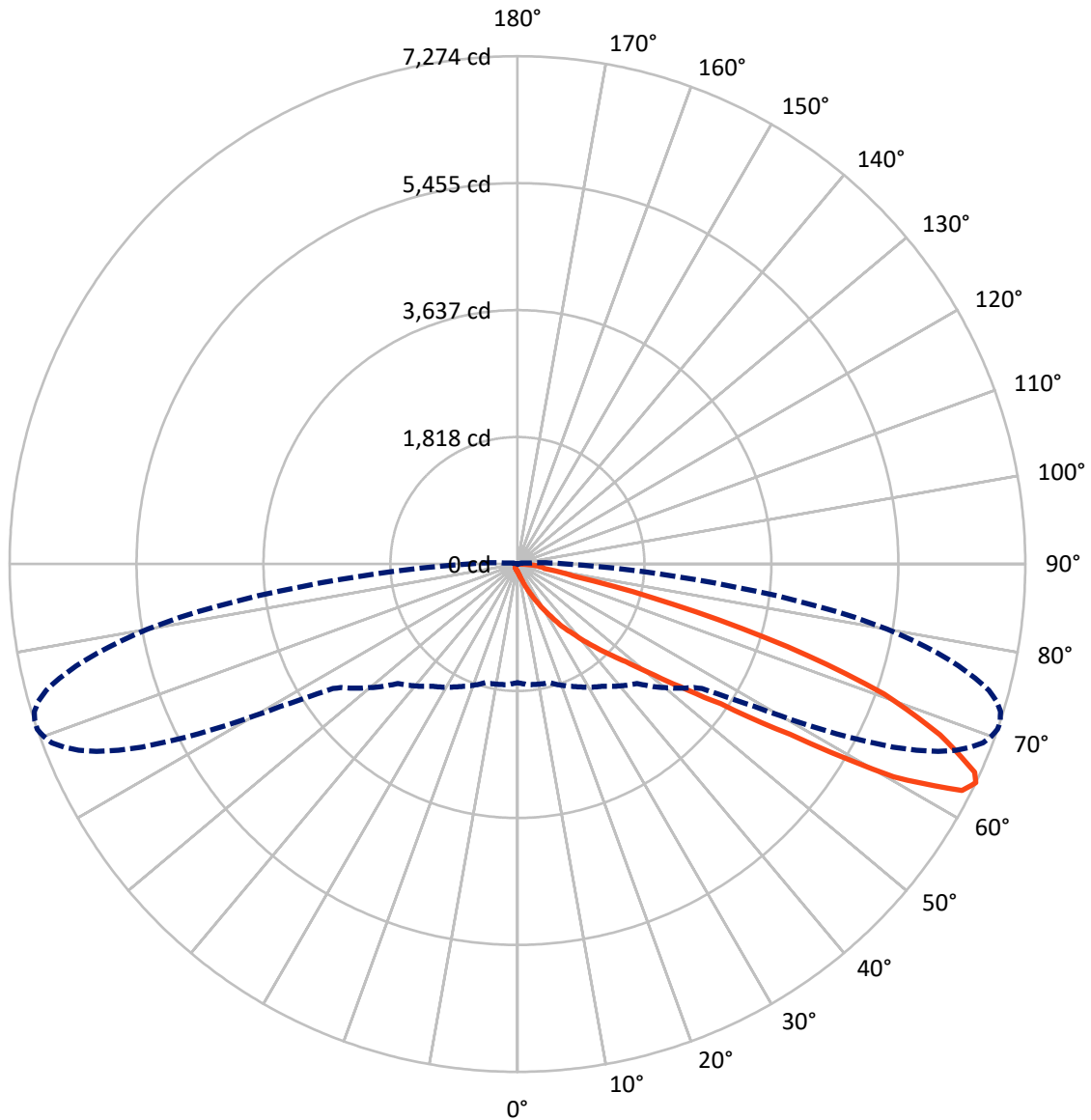
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 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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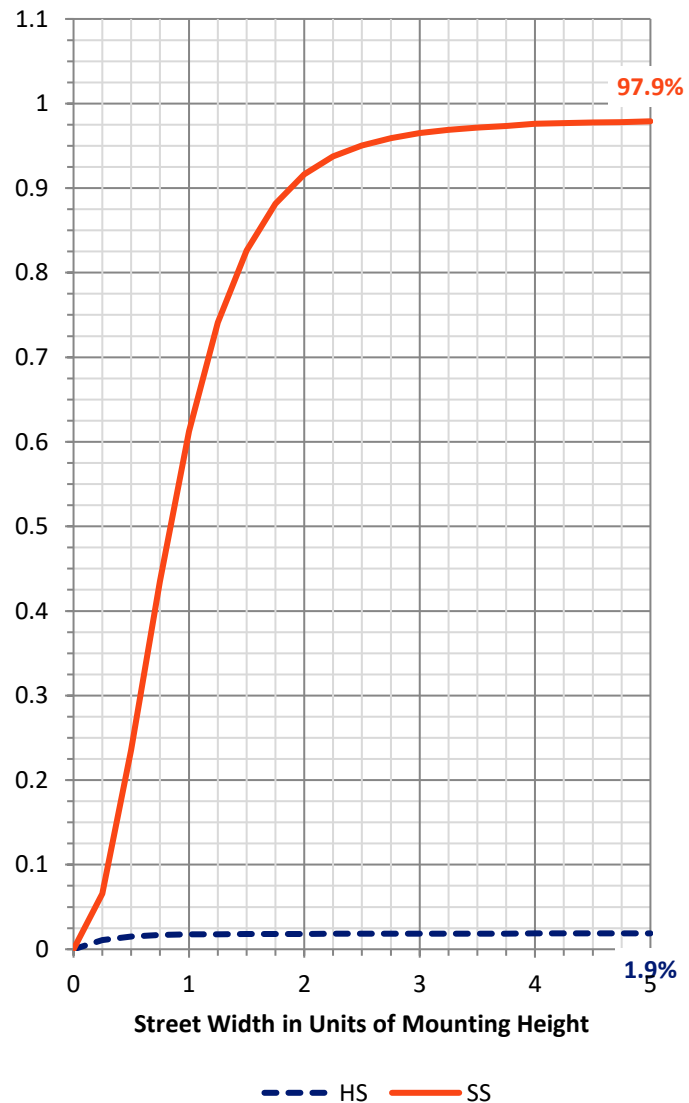
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	92.4	0.0	92.4
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	4737.0	0.0	4737.0
	% Fixture	98.1	0.0	98.1
Total	Lumens	4829.4	0.0	4829.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	14.8	0.3
10°-20°	87.3	1.8
20°-30°	223.0	4.6
30°-40°	451.1	9.3
40°-50°	824.6	17.1
50°-60°	1284.7	26.6
60°-70°	1428.0	29.6
70°-80°	465.7	9.6
80°-90°	50.1	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°	4829.4	100.0
0°-180°	4829.4	100.0

Coefficient of Utilization



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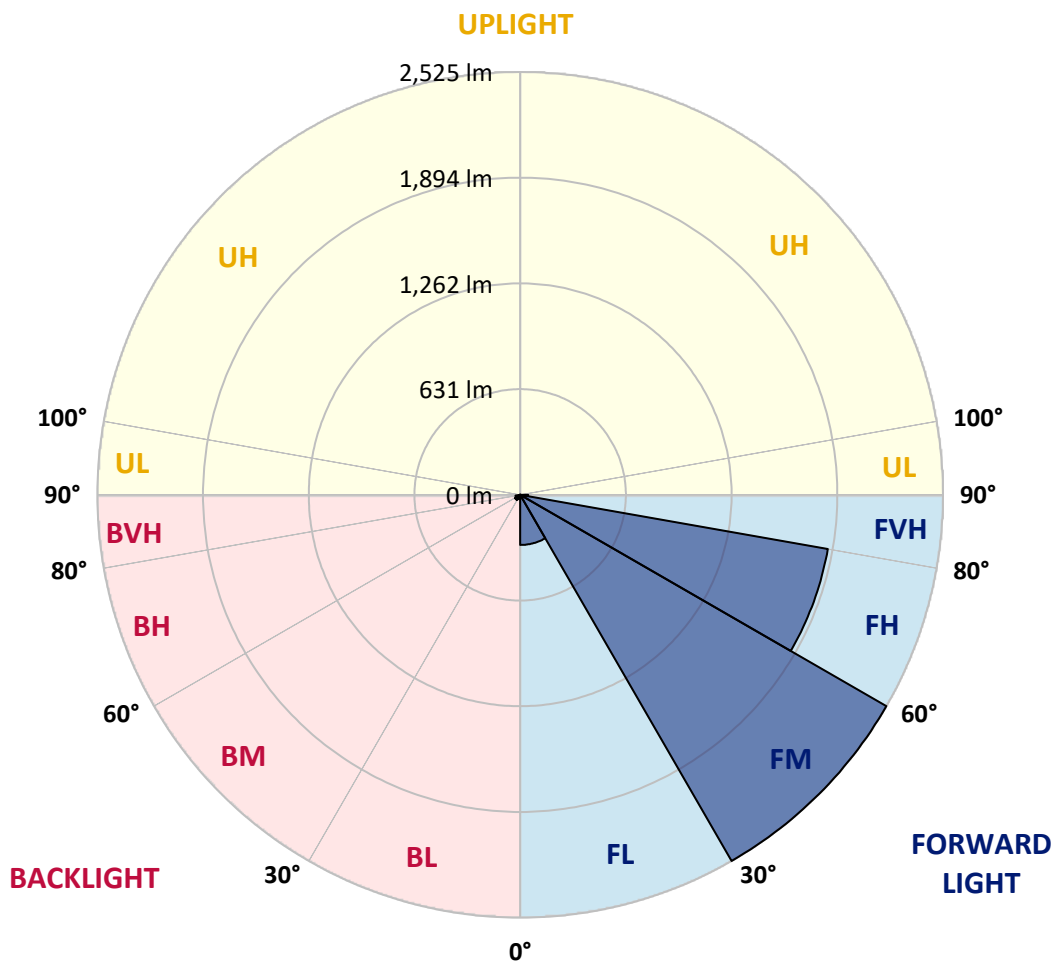
CATALOG NUMBER: AVM-F04-LED-E-U-T2-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	299.4	6.2			
FM	(30°-60°)	2524.7	52.3			
FH	(60°-80°)	1865.2	38.6			G2/5000
FVH	(80°-90°)	47.7	1.0			G1/100
BL	(0°-30°)	25.7	0.5	B0/110		
BM	(30°-60°)	35.7	0.7	B0/220		
BH	(60°-80°)	28.5	0.6	B0/110		G0/110
BVH	(80°-90°)	2.4	0.0			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6
2.5°	144.8	142.8	142.8	139.7	135.7	131.7	127.7	126.7	125.7	124.7	124.7
5°	227.2	219.2	216.1	205.1	191.0	173.9	158.8	154.8	154.8	151.8	149.8
7.5°	356.9	352.9	331.8	320.7	287.5	246.3	203.1	199.1	198.0	194.0	188.0
10°	522.8	514.7	499.6	467.5	407.2	335.8	274.5	264.4	257.4	249.3	241.3
12.5°	688.6	678.6	656.5	604.2	543.9	452.4	353.9	344.8	333.8	322.7	309.6
15°	854.5	847.5	813.3	761.0	682.6	573.0	448.4	432.3	423.2	401.1	391.1
17.5°	998.3	989.2	962.1	902.8	821.4	700.7	552.9	532.8	517.7	504.7	480.5
20°	1122.9	1113.9	1087.8	1038.5	947.0	828.4	665.5	655.5	628.3	608.2	594.1
22.5°	1199.4	1196.3	1179.2	1132.0	1050.6	945.0	794.2	778.1	760.0	732.9	716.8
25°	1246.6	1243.6	1233.5	1200.4	1145.1	1067.7	936.0	915.9	899.8	875.6	855.5
27.5°	1295.9	1293.9	1285.8	1256.7	1227.5	1179.2	1079.7	1068.7	1033.5	1019.4	1000.3
30°	1377.3	1368.2	1375.3	1361.2	1324.0	1293.9	1224.5	1208.4	1193.3	1169.2	1152.1
32.5°	1507.0	1491.9	1507.0	1491.9	1475.8	1439.6	1373.3	1368.2	1353.2	1338.1	1314.0
35°	1665.8	1659.8	1671.9	1684.9	1671.9	1623.6	1543.2	1528.1	1522.1	1497.9	1488.9
37.5°	1825.7	1836.7	1858.8	1888.0	1880.0	1844.8	1731.2	1717.1	1706.0	1684.9	1668.8
40°	1997.6	1998.6	2045.8	2088.1	2109.2	2088.1	1938.3	1927.2	1912.1	1882.0	1877.9
42.5°	2184.6	2176.5	2211.7	2259.0	2302.2	2331.3	2211.7	2190.6	2169.5	2135.3	2112.2
45°	2350.4	2350.4	2378.6	2422.8	2489.2	2562.6	2500.2	2478.1	2458.0	2429.9	2403.7
47.5°	2473.1	2474.1	2491.2	2555.5	2659.1	2768.7	2770.7	2774.7	2759.6	2726.4	2727.4
50°	2559.6	2548.5	2571.6	2634.0	2753.6	2925.5	3049.1	3056.2	3068.3	3041.1	3049.1
52.5°	2622.9	2617.9	2632.9	2685.2	2804.9	3015.0	3277.4	3307.5	3325.6	3329.6	3362.8
55°	2589.7	2592.7	2628.9	2704.3	2833.0	3074.3	3471.4	3520.6	3562.9	3599.1	3640.3
57.5°	2480.1	2489.2	2552.5	2670.1	2839.0	3122.5	3677.5	3752.9	3832.3	3928.8	4010.2
60°	2305.2	2326.3	2411.8	2576.6	2780.7	3059.2	3738.8	3854.4	3976.1	4122.8	4286.7
62.5°	2048.9	2052.9	2109.2	2269.0	2494.2	2722.4	3457.3	3605.1	3765.9	3978.1	4207.3
64°	1698.0	1734.2	1760.3	1936.3	2137.3	2421.8	3085.3	3187.9	3412.1	3672.5	3961.0
65°	1401.4	1444.7	1465.8	1641.7	1871.9	2143.4	2761.6	2871.2	3107.5	3371.9	3731.8
67.5°	826.4	797.2	858.5	962.1	1155.1	1476.8	1862.9	1946.3	2122.2	2436.9	2724.4
70°	532.8	532.8	589.1	694.7	873.6	1119.9	1279.8	1244.6	1281.8	1403.4	1606.5
72.5°	341.8	359.9	394.1	483.6	649.4	939.0	1307.9	1142.0	1055.6	1015.4	1013.4
75°	155.8	165.9	203.1	256.4	346.8	612.2	1319.0	1246.6	1167.2	1090.8	1031.5
77.5°	33.2	38.2	64.3	132.7	168.9	282.5	936.0	1044.5	1131.0	1156.1	1156.1
80°	17.1	18.1	27.1	62.3	72.4	95.5	360.9	474.5	585.1	730.9	883.7
82.5°	7.0	8.0	16.1	28.1	30.2	29.2	95.5	120.6	165.9	241.3	359.9
85°	2.0	2.0	7.0	11.1	16.1	13.1	21.1	24.1	31.2	45.2	86.5
87.5°	0.0	0.0	1.0	2.0	3.0	5.0	6.0	6.0	6.0	6.0	6.0
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):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6
2.5°	123.7	123.7	122.6	121.6	121.6	119.6	119.6	118.6	118.6	117.6	117.6
5°	148.8	146.8	144.8	141.8	140.7	138.7	136.7	134.7	132.7	131.7	129.7
7.5°	185.0	183.0	176.9	172.9	167.9	164.9	160.9	157.8	154.8	152.8	148.8
10°	233.2	226.2	223.2	209.1	206.1	199.1	193.0	189.0	181.0	175.9	170.9
12.5°	301.6	288.5	283.5	259.4	252.3	242.3	235.2	225.2	216.1	210.1	201.1
15°	379.0	369.0	349.9	325.7	312.7	301.6	284.5	276.5	264.4	251.3	238.3
17.5°	471.5	453.4	432.3	401.1	385.0	367.9	351.9	334.8	314.7	302.6	288.5
20°	579.1	560.0	533.8	494.6	475.5	458.4	430.3	418.2	394.1	370.0	351.9
22.5°	696.7	677.6	652.5	608.2	583.1	554.9	531.8	510.7	482.6	458.4	437.3
25°	829.4	807.3	788.2	736.9	705.7	676.6	651.5	614.3	590.1	562.0	532.8
27.5°	980.2	954.1	928.9	872.6	843.5	811.3	781.1	741.9	718.8	672.6	645.4
30°	1135.0	1102.8	1076.7	1019.4	993.3	960.1	918.9	883.7	844.5	813.3	769.1
32.5°	1297.9	1271.7	1250.6	1190.3	1157.1	1115.9	1078.7	1041.5	1007.3	957.1	916.9
35°	1471.8	1448.7	1425.6	1373.3	1344.1	1313.0	1270.7	1225.5	1178.2	1126.0	1089.8
37.5°	1654.8	1636.7	1618.6	1555.2	1521.1	1487.9	1439.6	1394.4	1352.2	1296.9	1235.5
40°	1846.8	1829.7	1800.5	1748.3	1712.1	1681.9	1637.7	1595.5	1538.1	1476.8	1422.5
42.5°	2088.1	2050.9	2025.7	1968.4	1930.2	1897.0	1857.8	1794.5	1746.2	1672.9	1620.6
45°	2370.6	2335.4	2294.2	2235.8	2188.6	2134.3	2079.0	2035.8	1975.5	1909.1	1841.8
47.5°	2688.2	2660.1	2611.8	2554.5	2507.3	2453.0	2387.6	2332.4	2259.0	2181.6	2090.1
50°	3038.1	3008.9	2976.8	2912.4	2865.2	2813.9	2762.6	2697.3	2630.9	2538.4	2443.9
52.5°	3362.8	3368.8	3349.7	3319.6	3296.5	3243.2	3195.9	3133.6	3075.3	2990.8	2917.5
55°	3683.5	3735.8	3755.9	3785.0	3795.1	3751.9	3750.9	3659.4	3624.2	3574.9	3532.7
57.5°	4106.8	4222.4	4313.8	4490.8	4565.2	4640.6	4654.7	4590.3	4656.7	4571.2	4600.4
60°	4466.7	4678.8	4906.0	5363.4	5592.6	5765.5	5904.3	6006.8	6073.2	6185.8	6191.8
62.5°	4498.8	4832.6	5178.4	5846.0	6159.6	6422.0	6672.3	6847.3	6986.0	7113.7	7144.8
64°	4345.0	4758.2	5178.4	5985.7	6306.4	6597.9	6826.2	7000.1	7141.8	7221.2	7273.5
65°	4065.5	4528.0	5011.5	5893.2	6224.0	6533.6	6751.8	6926.7	7060.4	7139.8	7194.1
67.5°	3012.0	3459.3	3944.9	4971.3	5492.1	5775.6	6055.1	6300.4	6407.9	6508.5	6527.6
70°	1835.7	2160.4	2495.2	3447.3	3930.8	4440.5	4755.2	5114.1	5365.4	5520.2	5571.5
72.5°	1107.9	1220.5	1420.5	1932.2	2395.7	2753.6	3188.9	3531.7	3813.2	3969.0	4047.4
75°	986.2	972.1	998.3	1211.4	1376.3	1591.4	1749.3	1964.4	2138.3	2192.6	2294.2
77.5°	1140.0	1099.8	1058.6	1018.4	1010.4	990.2	958.1	966.1	889.7	816.3	818.3
80°	1015.4	1111.9	1169.2	1127.0	1031.5	935.0	816.3	668.5	522.8	432.3	394.1
82.5°	509.7	724.8	931.9	1137.0	1122.9	1037.5	906.8	744.9	577.1	443.3	353.9
85°	156.8	278.5	392.1	544.9	632.3	620.3	544.9	529.8	378.0	294.6	227.2
87.5°	7.0	7.0	7.0	6.0	7.0	7.0	7.0	8.0	8.0	9.0	9.0
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):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6
2.5°	117.6	116.6	115.6	114.6	114.6	114.6	113.6	113.6	112.6	112.6	111.6
5°	129.7	127.7	126.7	124.7	124.7	122.6	121.6	120.6	118.6	117.6	116.6
7.5°	145.8	143.8	140.7	137.7	136.7	133.7	130.7	128.7	126.7	124.7	122.6
10°	166.9	162.9	156.8	152.8	149.8	145.8	141.8	138.7	134.7	130.7	128.7
12.5°	194.0	186.0	180.0	172.9	166.9	160.9	153.8	149.8	145.8	139.7	135.7
15°	225.2	217.2	210.1	198.0	188.0	180.0	173.9	164.9	157.8	149.8	143.8
17.5°	278.5	257.4	243.3	231.2	221.2	206.1	194.0	184.0	174.9	164.9	157.8
20°	330.8	312.7	293.6	279.5	257.4	244.3	228.2	214.1	198.0	186.0	173.9
22.5°	407.2	384.0	359.9	338.8	308.6	290.5	269.4	251.3	231.2	211.1	198.0
25°	503.7	469.5	437.3	407.2	379.0	351.9	324.7	295.6	274.5	250.3	228.2
27.5°	605.2	567.0	535.8	496.6	460.4	427.3	393.1	361.9	325.7	294.6	268.4
30°	732.9	680.6	644.4	597.2	561.0	514.7	472.5	431.3	387.0	350.9	313.7
32.5°	862.6	827.4	766.1	725.8	671.6	616.3	572.0	524.8	470.5	423.2	378.0
35°	1033.5	973.2	921.9	865.6	806.3	749.0	691.7	624.3	569.0	510.7	455.4
37.5°	1184.3	1122.9	1063.6	990.2	922.9	862.6	793.2	722.8	657.5	588.1	521.8
40°	1359.2	1282.8	1212.4	1144.1	1060.6	989.2	916.9	829.4	754.0	677.6	599.2
42.5°	1550.2	1472.8	1389.4	1310.9	1219.5	1132.0	1042.5	955.1	870.6	778.1	686.6
45°	1759.3	1677.9	1584.4	1494.9	1395.4	1298.9	1192.3	1091.8	992.3	888.7	783.1
47.5°	2018.7	1914.1	1827.7	1716.1	1592.4	1490.9	1360.2	1245.6	1132.0	1011.4	892.7
50°	2354.5	2235.8	2111.2	1987.5	1850.8	1722.1	1577.4	1441.6	1289.8	1155.1	1019.4
52.5°	2799.8	2711.4	2566.6	2424.8	2258.0	2094.1	1895.0	1719.1	1524.1	1352.2	1186.3
55°	3432.2	3373.9	3248.2	3093.4	2947.6	2708.3	2479.1	2205.7	1952.3	1705.0	1471.8
57.5°	4577.2	4513.9	4374.2	4337.0	4112.8	3936.9	3668.4	3314.6	2885.3	2507.3	2130.3
60°	6226.0	6102.3	5965.6	5940.5	5677.1	5492.1	5225.7	4848.7	4444.5	3841.3	3327.6
62.5°	7146.9	7109.7	6999.1	6863.4	6635.1	6360.7	6061.1	5696.2	5286.0	4757.2	4146.0
64°	7270.5	7236.3	7140.8	6988.0	6758.8	6486.4	6154.6	5790.7	5379.5	4896.9	4339.0
65°	7193.1	7144.8	7063.4	6922.7	6709.5	6448.2	6114.4	5745.4	5328.2	4863.8	4345.0
67.5°	6568.8	6546.7	6472.3	6341.6	6207.9	5972.6	5679.1	5349.3	5008.5	4548.1	4122.8
70°	5577.5	5561.5	5467.0	5414.7	5193.5	5044.7	4807.5	4548.1	4246.5	3925.8	3563.9
72.5°	4134.9	4080.6	4004.2	3924.8	3775.0	3570.9	3385.9	3109.5	2953.6	2683.2	2479.1
75°	2192.6	2158.4	2039.8	1873.9	1688.9	1593.4	1401.4	1229.5	1092.8	1031.5	883.7
77.5°	758.0	690.7	624.3	549.9	436.3	343.8	274.5	219.2	172.9	152.8	127.7
80°	378.0	358.9	337.8	295.6	248.3	200.1	156.8	123.7	101.5	86.5	77.4
82.5°	306.6	271.4	242.3	212.1	169.9	139.7	110.6	90.5	74.4	65.3	57.3
85°	181.0	138.7	105.6	95.5	74.4	64.3	55.3	47.3	40.2	38.2	35.2
87.5°	7.0	9.0	9.0	7.0	9.0	8.0	8.0	7.0	7.0	7.0	7.0
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-F04-LED-E-U-T2-HSS-7030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6	107.6
2.5°	111.6	110.6	110.6	109.6	108.6	108.6	108.6	107.6	105.6	101.5	98.5
5°	115.6	114.6	113.6	111.6	110.6	109.6	108.6	108.6	103.5	96.5	91.5
7.5°	120.6	118.6	116.6	114.6	113.6	111.6	109.6	108.6	101.5	92.5	87.5
10°	125.7	122.6	119.6	118.6	115.6	113.6	110.6	108.6	100.5	89.5	82.4
12.5°	131.7	127.7	123.7	120.6	116.6	114.6	111.6	108.6	98.5	86.5	78.4
15°	138.7	132.7	127.7	124.7	120.6	115.6	111.6	108.6	96.5	83.4	74.4
17.5°	147.8	140.7	134.7	128.7	122.6	117.6	113.6	109.6	93.5	79.4	69.4
20°	161.9	152.8	142.8	135.7	127.7	121.6	114.6	109.6	91.5	75.4	65.3
22.5°	181.0	166.9	155.8	143.8	133.7	125.7	117.6	111.6	88.5	71.4	60.3
25°	208.1	190.0	171.9	156.8	143.8	132.7	122.6	114.6	86.5	68.4	57.3
27.5°	238.3	217.2	193.0	174.9	156.8	140.7	129.7	119.6	86.5	66.4	54.3
30°	280.5	250.3	221.2	198.0	173.9	155.8	139.7	126.7	86.5	65.3	51.3
32.5°	331.8	297.6	260.4	227.2	199.1	172.9	152.8	135.7	88.5	63.3	49.3
35°	403.1	352.9	308.6	267.4	230.2	200.1	173.9	150.8	91.5	62.3	46.2
37.5°	459.4	399.1	342.8	295.6	252.3	215.1	182.0	156.8	88.5	58.3	43.2
40°	526.8	458.4	390.1	330.8	281.5	233.2	195.0	164.9	86.5	53.3	39.2
42.5°	608.2	522.8	443.3	376.0	314.7	257.4	212.1	174.9	86.5	50.3	36.2
45°	684.6	591.1	502.7	418.2	346.8	283.5	228.2	186.0	85.5	47.3	32.2
47.5°	779.1	668.5	565.0	467.5	385.0	307.6	245.3	196.0	84.4	44.2	29.2
50°	890.7	756.0	639.4	522.8	422.2	336.8	265.4	207.1	82.4	41.2	26.1
52.5°	1014.4	869.6	720.8	586.1	468.5	367.9	284.5	217.2	79.4	38.2	23.1
55°	1233.5	1034.5	858.5	691.7	538.9	414.2	312.7	232.2	76.4	35.2	20.1
57.5°	1759.3	1429.6	1180.3	928.9	709.8	531.8	389.1	275.5	72.4	31.2	16.1
60°	2762.6	2218.8	1795.5	1408.5	1073.7	816.3	573.0	407.2	77.4	26.1	14.1
62.5°	3543.8	2918.5	2379.6	1894.0	1470.8	1117.9	834.4	608.2	111.6	23.1	11.1
64°	3747.9	3114.5	2539.5	2030.8	1590.4	1226.5	930.9	687.6	143.8	23.1	10.1
65°	3778.0	3174.8	2596.8	2081.0	1631.6	1255.7	959.1	713.8	156.8	24.1	9.0
67.5°	3653.3	3139.6	2613.8	2102.1	1662.8	1295.9	997.3	755.0	176.9	23.1	7.0
70°	3190.9	2812.9	2380.6	1966.4	1568.3	1231.5	959.1	731.9	185.0	22.1	6.0
72.5°	2171.5	1911.1	1655.8	1362.2	1091.8	899.8	699.7	515.7	129.7	18.1	5.0
75°	723.8	705.7	631.3	478.5	402.1	326.7	261.4	201.1	49.3	11.1	5.0
77.5°	120.6	103.5	90.5	86.5	72.4	70.4	61.3	49.3	21.1	7.0	5.0
80°	70.4	64.3	56.3	50.3	44.2	39.2	33.2	28.1	13.1	5.0	6.0
82.5°	52.3	46.2	41.2	36.2	31.2	27.1	23.1	19.1	7.0	5.0	6.0
85°	30.2	26.1	23.1	20.1	16.1	14.1	12.1	10.1	5.0	5.0	5.0
87.5°	6.0	6.0	5.0	5.0	5.0	5.0	5.0	4.0	5.0	5.0	4.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



REPORT NUMBER: P154224

CATALOG NUMBER: AVM-F04-LED-E-U-T2-HSS-7030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	107.6	107.6	107.6	107.6	107.6	107.6	107.6
2.5°	96.5	93.5	92.5	92.5	92.5	92.5	92.5
5°	88.5	85.5	83.4	82.4	82.4	82.4	82.4
7.5°	82.4	78.4	76.4	74.4	74.4	73.4	73.4
10°	76.4	72.4	69.4	67.4	66.4	66.4	66.4
12.5°	71.4	67.4	63.3	61.3	61.3	60.3	60.3
15°	67.4	61.3	58.3	56.3	56.3	55.3	55.3
17.5°	62.3	57.3	54.3	52.3	51.3	51.3	51.3
20°	57.3	52.3	49.3	48.3	47.3	47.3	46.2
22.5°	53.3	48.3	45.2	44.2	43.2	43.2	42.2
25°	49.3	44.2	41.2	40.2	39.2	38.2	38.2
27.5°	46.2	41.2	38.2	36.2	35.2	34.2	34.2
30°	43.2	37.2	34.2	32.2	31.2	30.2	30.2
32.5°	40.2	34.2	30.2	28.1	27.1	26.1	26.1
35°	36.2	30.2	26.1	25.1	24.1	23.1	22.1
37.5°	33.2	26.1	23.1	21.1	20.1	19.1	19.1
40°	29.2	23.1	20.1	18.1	16.1	15.1	15.1
42.5°	26.1	20.1	17.1	14.1	13.1	12.1	12.1
45°	23.1	18.1	14.1	11.1	10.1	9.0	9.0
47.5°	20.1	15.1	11.1	9.0	8.0	7.0	7.0
50°	17.1	12.1	8.0	6.0	7.0	6.0	6.0
52.5°	15.1	9.0	6.0	6.0	6.0	6.0	6.0
55°	12.1	7.0	5.0	5.0	6.0	6.0	6.0
57.5°	10.1	5.0	4.0	5.0	5.0	5.0	5.0
60°	7.0	4.0	4.0	5.0	5.0	5.0	5.0
62.5°	6.0	4.0	4.0	4.0	5.0	5.0	5.0
64°	5.0	4.0	4.0	4.0	5.0	5.0	5.0
65°	5.0	4.0	4.0	4.0	5.0	5.0	5.0
67.5°	5.0	4.0	4.0	4.0	5.0	5.0	5.0
70°	4.0	4.0	4.0	4.0	5.0	5.0	5.0
72.5°	4.0	4.0	4.0	4.0	5.0	5.0	5.0
75°	4.0	4.0	4.0	4.0	5.0	5.0	5.0
77.5°	4.0	4.0	4.0	5.0	5.0	5.0	5.0
80°	4.0	4.0	4.0	5.0	5.0	5.0	5.0
82.5°	4.0	4.0	4.0	5.0	5.0	5.0	5.0
85°	4.0	4.0	4.0	5.0	5.0	5.0	5.0
87.5°	4.0	4.0	4.0	5.0	5.0	5.0	5.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)