

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: P154223

Luminaire Tested: **AVM-F04-LED-E-U-T2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P154223
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-8030
Description: VISION SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA W/ HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4462.7 lumens
Efficiency: N/A
Efficacy: 43.7 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 - G1

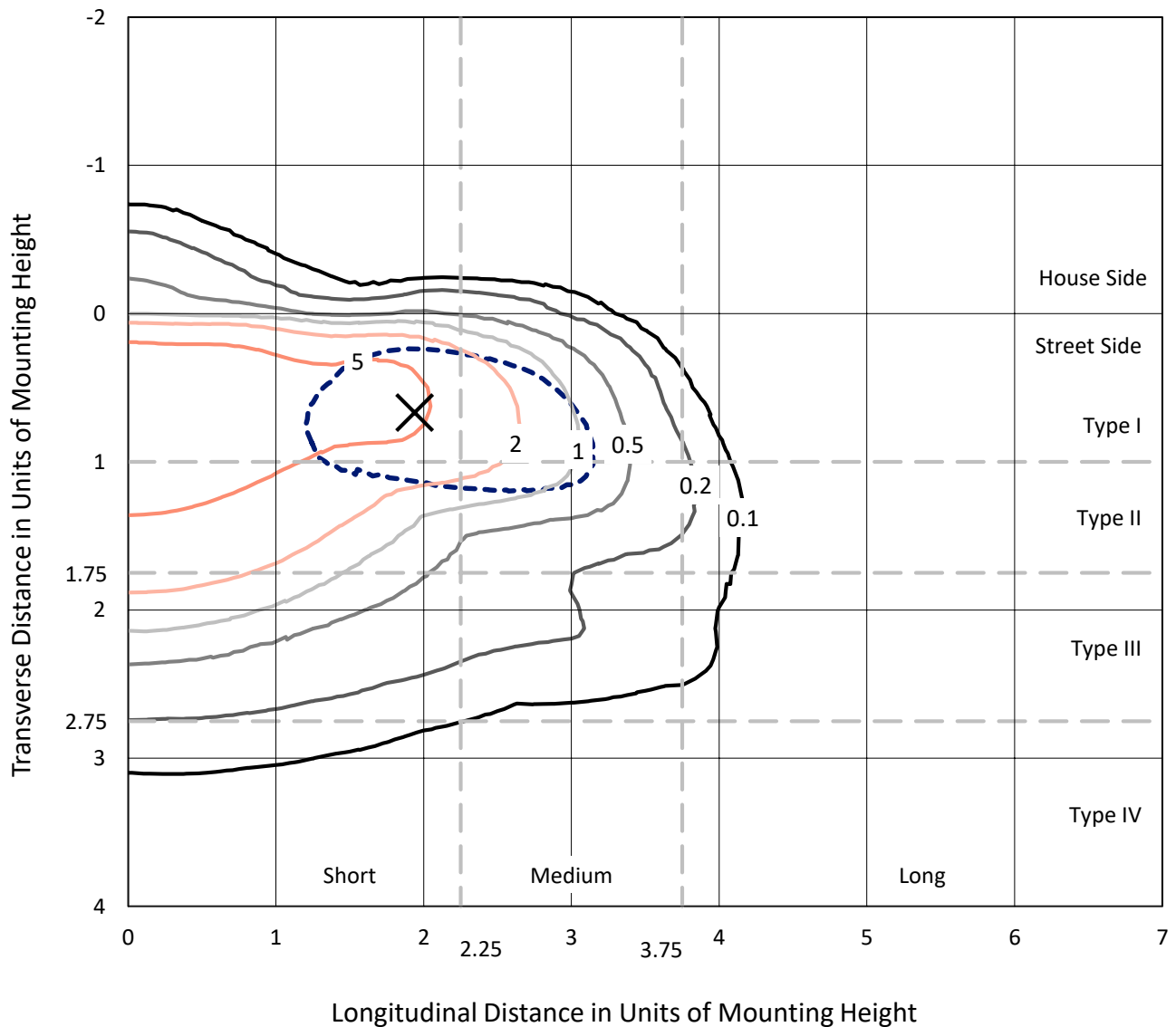
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

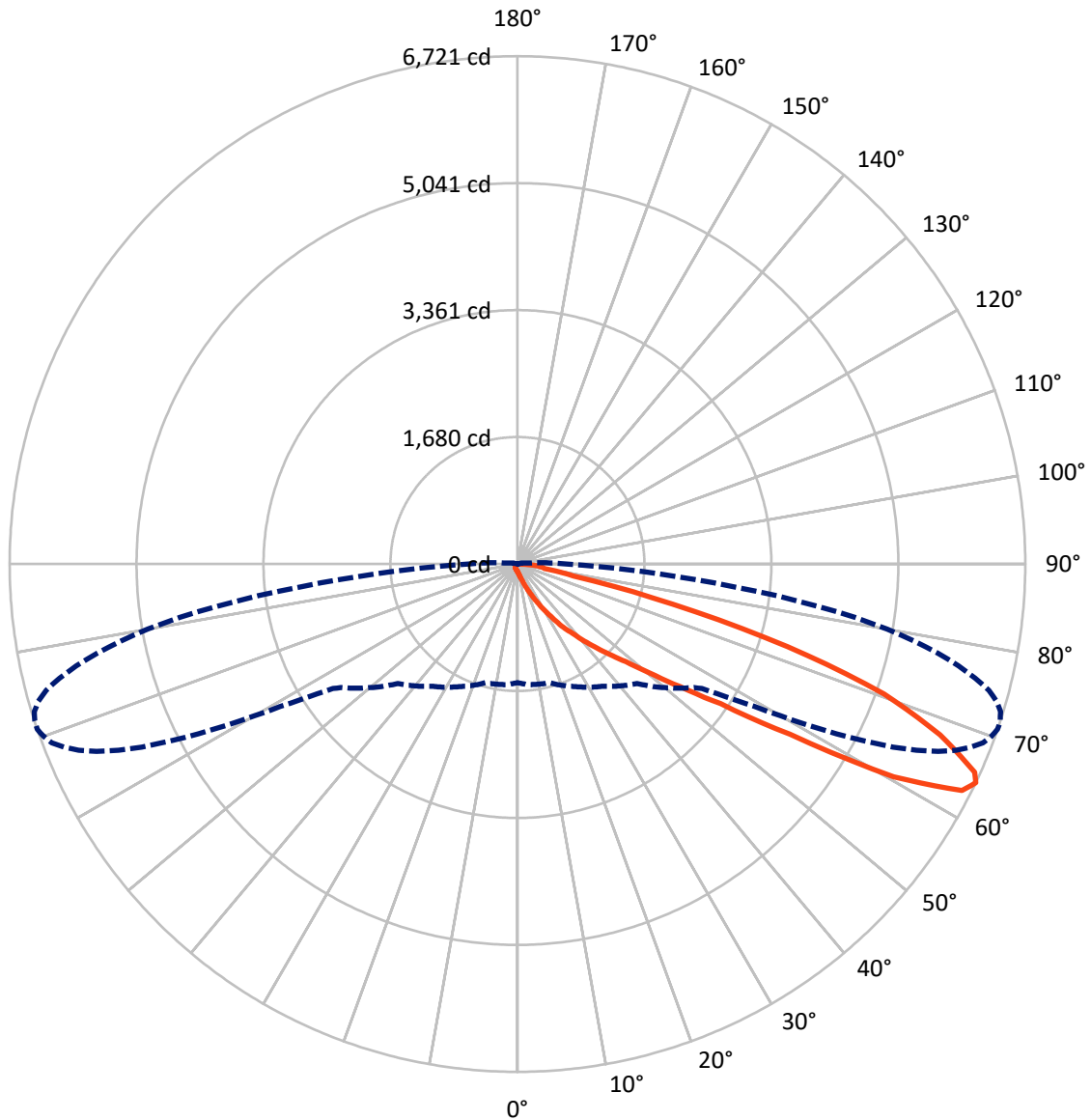
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.7 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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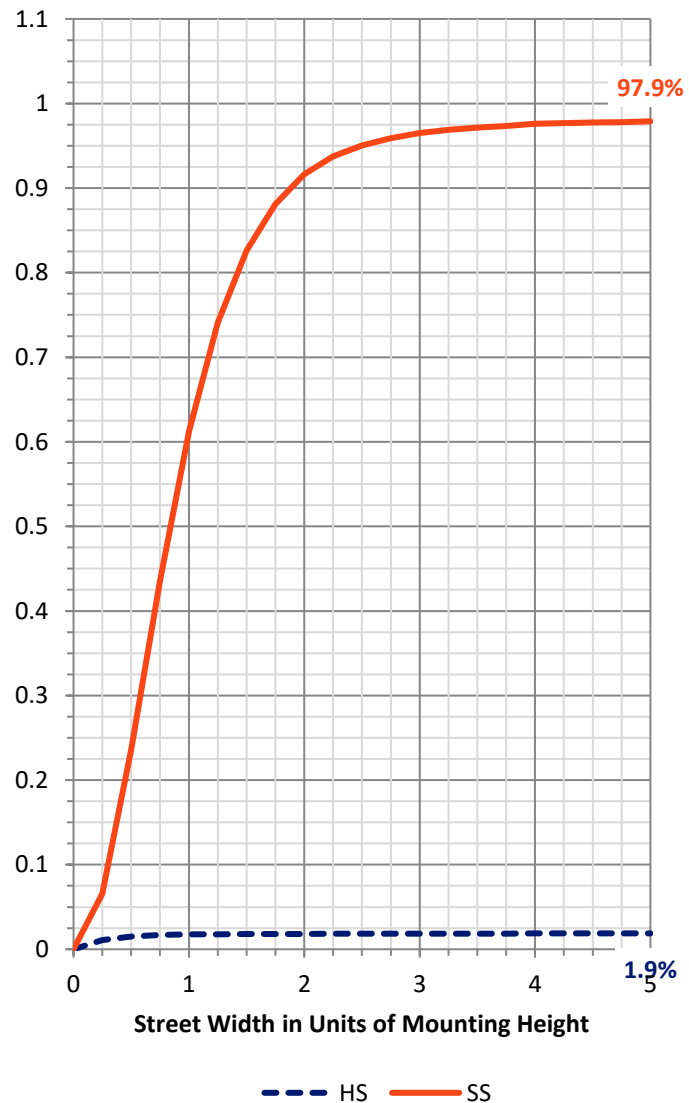
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	85.4	0.0	85.4
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	4377.3	0.0	4377.3
	% Fixture	98.1	0.0	98.1
Total	Lumens	4462.7	0.0	4462.7
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.7	0.3
10°-20°	80.7	1.8
20°-30°	206.1	4.6
30°-40°	416.9	9.3
40°-50°	762.0	17.1
50°-60°	1187.2	26.6
60°-70°	1319.6	29.6
70°-80°	430.3	9.6
80°-90°	46.3	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°	4462.7	100.0
0°-180°	4462.7	100.0

Coefficient of Utilization



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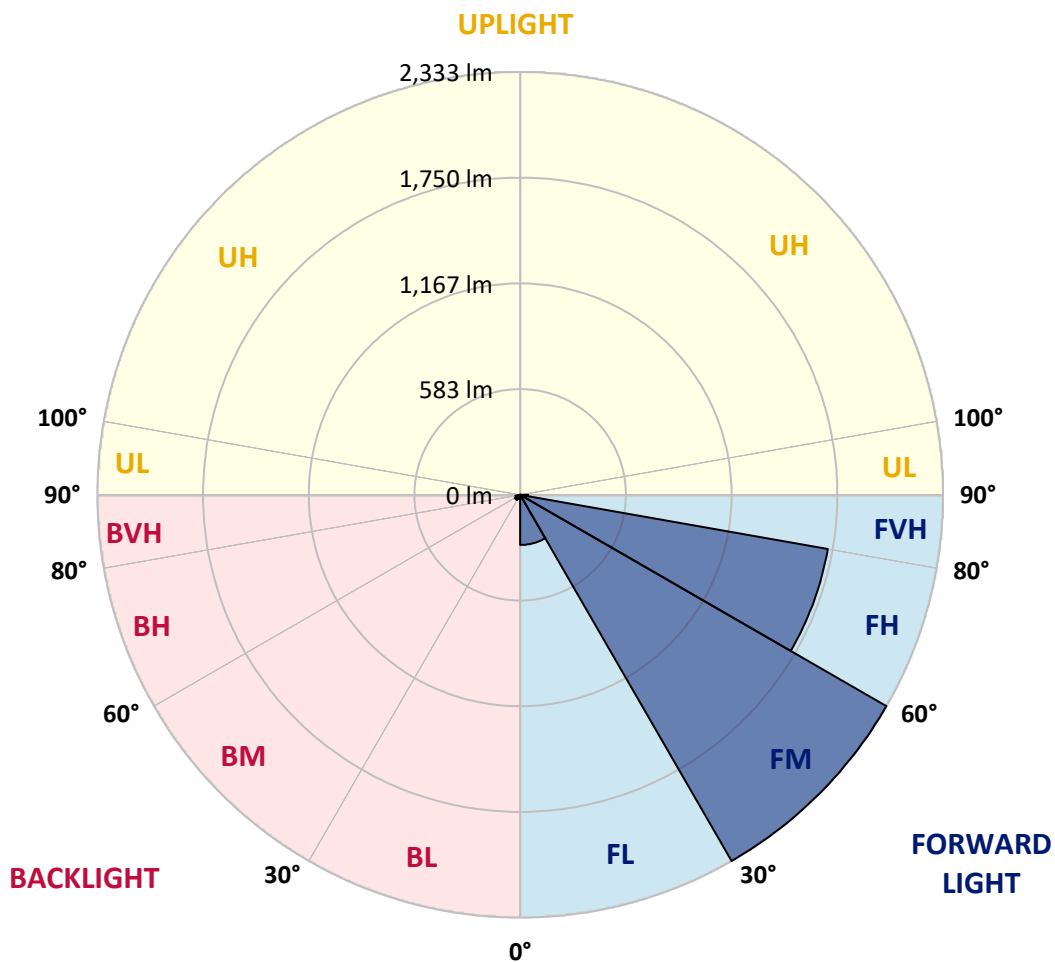
CATALOG NUMBER: AVM-F04-LED-E-U-T2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	276.7	6.2			
FM (30°-60°)	2333.0	52.3			
FH (60°-80°)	1723.5	38.6			G1/1800
FVH (80°-90°)	44.1	1.0			G1/100
BL (0°-30°)	23.8	0.5	B0/110		
BM (30°-60°)	33.0	0.7	B0/220		
BH (60°-80°)	26.4	0.6	B0/110		G0/110
BVH (80°-90°)	2.2	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-G1

Type II Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2.5°	133.8	131.9	131.9	129.1	125.4	121.7	118.0	117.1	116.1	115.2	115.2
5°	209.9	202.5	199.7	189.5	176.5	160.7	146.8	143.1	143.1	140.3	138.4
7.5°	329.8	326.1	306.6	296.3	265.7	227.6	187.7	183.9	183.0	179.3	173.7
10°	483.1	475.6	461.7	432.0	376.2	310.3	253.6	244.3	237.8	230.4	223.0
12.5°	636.4	627.1	606.6	558.3	502.6	418.0	327.0	318.6	308.4	298.2	286.1
15°	789.6	783.1	751.5	703.2	630.8	529.5	414.3	399.5	391.1	370.7	361.4
17.5°	922.5	914.1	889.0	834.2	759.0	647.5	510.9	492.4	478.4	466.3	444.1
20°	1037.7	1029.3	1005.2	959.6	875.1	765.5	615.0	605.7	580.6	562.0	549.0
22.5°	1108.3	1105.5	1089.7	1046.0	970.8	873.2	733.9	719.0	702.3	677.2	662.4
25°	1151.9	1149.1	1139.9	1109.2	1058.1	986.6	864.9	846.3	831.4	809.1	790.6
27.5°	1197.5	1195.6	1188.2	1161.2	1134.3	1089.7	997.7	987.5	955.0	942.0	924.3
30°	1272.7	1264.3	1270.8	1257.8	1223.5	1195.6	1131.5	1116.6	1102.7	1080.4	1064.6
32.5°	1392.5	1378.6	1392.5	1378.6	1363.7	1330.3	1269.0	1264.3	1250.4	1236.5	1214.2
35°	1539.3	1533.7	1544.9	1557.0	1544.9	1500.3	1426.0	1412.1	1406.5	1384.2	1375.8
37.5°	1687.0	1697.2	1717.7	1744.6	1737.2	1704.7	1599.7	1586.7	1576.5	1557.0	1542.1
40°	1845.9	1846.8	1890.5	1929.5	1949.0	1929.5	1791.1	1780.9	1766.9	1739.1	1735.3
42.5°	2018.7	2011.2	2043.8	2087.4	2127.4	2154.3	2043.8	2024.2	2004.7	1973.2	1951.8
45°	2172.0	2172.0	2198.0	2238.8	2300.2	2368.0	2310.4	2289.9	2271.4	2245.3	2221.2
47.5°	2285.3	2286.2	2302.0	2361.5	2457.2	2558.4	2560.3	2564.0	2550.1	2519.4	2520.3
50°	2365.2	2355.0	2376.3	2433.9	2544.5	2703.3	2817.6	2824.1	2835.2	2810.2	2817.6
52.5°	2423.7	2419.1	2433.0	2481.3	2591.9	2786.0	3028.5	3056.3	3073.1	3076.8	3107.4
55°	2393.1	2395.8	2429.3	2499.0	2617.9	2840.8	3207.8	3253.3	3292.3	3325.8	3363.8
57.5°	2291.8	2300.2	2358.7	2467.4	2623.4	2885.4	3398.2	3467.9	3541.3	3630.5	3705.7
60°	2130.2	2149.7	2228.6	2381.0	2569.6	2826.9	3454.9	3561.7	3674.1	3809.7	3961.2
62.5°	1893.3	1897.0	1949.0	2096.7	2304.8	2515.7	3194.8	3331.3	3480.0	3676.0	3887.8
64°	1569.0	1602.5	1626.6	1789.2	1975.0	2237.9	2851.0	2945.8	3153.0	3393.6	3660.2
65°	1295.0	1334.9	1354.5	1517.0	1729.8	1980.6	2551.9	2653.2	2871.5	3115.8	3448.4
67.5°	763.6	736.7	793.3	889.0	1067.4	1364.7	1721.4	1798.5	1961.1	2251.8	2517.5
70°	492.4	492.4	544.4	641.9	807.3	1034.9	1182.6	1150.1	1184.5	1296.9	1484.5
72.5°	315.9	332.6	364.2	446.8	600.1	867.7	1208.6	1055.3	975.4	938.3	936.4
75°	144.0	153.3	187.7	236.9	320.5	565.7	1218.8	1151.9	1078.5	1007.9	953.1
77.5°	30.7	35.3	59.5	122.6	156.1	261.0	864.9	965.2	1045.1	1068.3	1068.3
80°	15.8	16.7	25.1	57.6	66.9	88.3	333.5	438.5	540.7	675.4	816.6
82.5°	6.5	7.4	14.9	26.0	27.9	26.9	88.3	111.5	153.3	223.0	332.6
85°	1.9	1.9	6.5	10.2	14.9	12.1	19.5	22.3	28.8	41.8	79.9
87.5°	0.0	0.0	0.9	1.9	2.8	4.6	5.6	5.6	5.6	5.6	5.6
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°	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2.5°	114.3	114.3	113.3	112.4	112.4	110.5	110.5	109.6	109.6	108.7	108.7
5°	137.5	135.6	133.8	131.0	130.1	128.2	126.3	124.5	122.6	121.7	119.8
7.5°	170.9	169.1	163.5	159.8	155.1	152.4	148.6	145.8	143.1	141.2	137.5
10°	215.5	209.0	206.2	193.2	190.4	183.9	178.4	174.6	167.2	162.6	157.9
12.5°	278.7	266.6	262.0	239.7	233.2	223.9	217.4	208.1	199.7	194.2	185.8
15°	350.2	340.9	323.3	301.0	288.9	278.7	262.9	255.5	244.3	232.2	220.2
17.5°	435.7	419.0	399.5	370.7	355.8	340.0	325.1	309.4	290.8	279.6	266.6
20°	535.1	517.4	493.3	457.1	439.4	423.6	397.6	386.5	364.2	341.9	325.1
22.5°	643.8	626.1	602.9	562.0	538.8	512.8	491.4	471.9	445.9	423.6	404.1
25°	766.4	746.0	728.3	680.9	652.1	625.2	602.0	567.6	545.3	519.3	492.4
27.5°	905.8	881.6	858.4	806.4	779.4	749.7	721.8	685.6	664.2	621.5	596.4
30°	1048.8	1019.1	994.9	942.0	917.8	887.2	849.1	816.6	780.3	751.5	710.7
32.5°	1199.3	1175.2	1155.7	1099.9	1069.3	1031.2	996.8	962.4	930.8	884.4	847.2
35°	1360.0	1338.7	1317.3	1269.0	1242.0	1213.2	1174.2	1132.4	1088.8	1040.5	1007.0
37.5°	1529.1	1512.4	1495.7	1437.1	1405.5	1374.9	1330.3	1288.5	1249.5	1198.4	1141.7
40°	1706.5	1690.7	1663.8	1615.5	1582.1	1554.2	1513.3	1474.3	1421.3	1364.7	1314.5
42.5°	1929.5	1895.1	1871.9	1818.9	1783.6	1753.0	1716.8	1658.2	1613.6	1545.8	1497.5
45°	2190.5	2158.0	2119.9	2066.1	2022.4	1972.2	1921.1	1881.2	1825.4	1764.1	1701.9
47.5°	2484.1	2458.1	2413.5	2360.5	2316.9	2266.7	2206.3	2155.2	2087.4	2015.9	1931.4
50°	2807.4	2780.4	2750.7	2691.3	2647.6	2600.2	2552.8	2492.5	2431.1	2345.7	2258.4
52.5°	3107.4	3113.0	3095.4	3067.5	3046.1	2996.9	2953.2	2895.6	2841.8	2763.7	2695.9
55°	3403.8	3452.1	3470.7	3497.6	3506.9	3467.0	3466.0	3381.5	3349.0	3303.5	3264.4
57.5°	3794.9	3901.7	3986.3	4149.8	4218.5	4288.2	4301.2	4241.7	4303.0	4224.1	4251.0
60°	4127.5	4323.5	4533.4	4956.1	5167.9	5327.7	5455.9	5550.7	5612.0	5716.0	5721.6
62.5°	4157.2	4465.6	4785.2	5402.0	5691.9	5934.3	6165.6	6327.3	6455.5	6573.5	6602.3
64°	4015.1	4396.9	4785.2	5531.2	5827.5	6096.9	6307.8	6468.5	6599.5	6672.9	6721.2
65°	3756.8	4184.1	4631.0	5445.7	5751.3	6037.4	6239.0	6400.7	6524.2	6597.6	6647.8
67.5°	2783.2	3196.6	3645.3	4593.8	5075.0	5337.0	5595.3	5821.9	5921.3	6014.2	6031.9
70°	1696.3	1996.4	2305.7	3185.5	3632.3	4103.3	4394.1	4725.7	4958.0	5101.0	5148.4
72.5°	1023.7	1127.8	1312.6	1785.5	2213.8	2544.5	2946.7	3263.5	3523.6	3667.6	3740.1
75°	911.3	898.3	922.5	1119.4	1271.8	1470.6	1616.4	1815.2	1975.9	2026.1	2119.9
77.5°	1053.5	1016.3	978.2	941.1	933.6	915.0	885.3	892.8	822.1	754.3	756.2
80°	938.3	1027.5	1080.4	1041.4	953.1	864.0	754.3	617.8	483.1	399.5	364.2
82.5°	471.0	669.8	861.2	1050.7	1037.7	958.7	837.9	688.4	533.2	409.7	327.0
85°	144.9	257.3	362.3	503.5	584.3	573.2	503.5	489.6	349.3	272.2	209.9
87.5°	6.5	6.5	6.5	5.6	6.5	6.5	6.5	7.4	7.4	8.4	8.4
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°	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2.5°	108.7	107.8	106.8	105.9	105.9	105.9	105.0	105.0	104.0	104.0	103.1
5°	119.8	118.0	117.1	115.2	115.2	113.3	112.4	111.5	109.6	108.7	107.8
7.5°	134.7	132.8	130.1	127.3	126.3	123.6	120.8	118.9	117.1	115.2	113.3
10°	154.2	150.5	144.9	141.2	138.4	134.7	131.0	128.2	124.5	120.8	118.9
12.5°	179.3	171.9	166.3	159.8	154.2	148.6	142.1	138.4	134.7	129.1	125.4
15°	208.1	200.7	194.2	183.0	173.7	166.3	160.7	152.4	145.8	138.4	132.8
17.5°	257.3	237.8	224.8	213.7	204.4	190.4	179.3	170.0	161.6	152.4	145.8
20°	305.6	288.9	271.3	258.3	237.8	225.7	210.9	197.9	183.0	171.9	160.7
22.5°	376.2	354.9	332.6	313.1	285.2	268.5	249.0	232.2	213.7	195.1	183.0
25°	465.4	433.8	404.1	376.2	350.2	325.1	300.1	273.1	253.6	231.3	210.9
27.5°	559.2	523.9	495.1	458.9	425.5	394.8	363.2	334.4	301.0	272.2	248.0
30°	677.2	628.9	595.5	551.8	518.4	475.6	436.6	398.5	357.7	324.2	289.8
32.5°	797.1	764.6	707.9	670.7	620.6	569.5	528.6	484.9	434.8	391.1	349.3
35°	955.0	899.3	851.9	799.9	745.0	692.1	639.1	576.9	525.8	471.9	420.8
37.5°	1094.3	1037.7	982.9	915.0	852.8	797.1	733.0	667.9	607.6	543.5	482.1
40°	1256.0	1185.4	1120.4	1057.2	980.1	914.1	847.2	766.4	696.7	626.1	553.7
42.5°	1432.5	1361.0	1283.9	1211.4	1126.9	1046.0	963.4	882.5	804.5	719.0	634.5
45°	1625.7	1550.5	1464.1	1381.4	1289.4	1200.2	1101.8	1008.9	916.9	821.2	723.7
47.5°	1865.4	1768.8	1688.9	1585.8	1471.5	1377.7	1256.9	1151.0	1046.0	934.6	824.9
50°	2175.7	2066.1	1950.9	1836.6	1710.3	1591.3	1457.6	1332.2	1191.9	1067.4	942.0
52.5°	2587.2	2505.5	2371.7	2240.7	2086.5	1935.1	1751.1	1588.6	1408.3	1249.5	1096.2
55°	3171.5	3117.7	3001.5	2858.5	2723.8	2502.7	2290.9	2038.2	1804.1	1575.6	1360.0
57.5°	4229.6	4171.1	4042.0	4007.6	3800.5	3637.9	3389.9	3062.8	2666.2	2316.9	1968.5
60°	5753.2	5638.9	5512.6	5489.3	5246.0	5075.0	4828.8	4480.5	4107.0	3549.6	3074.9
62.5°	6604.1	6569.8	6467.6	6342.2	6131.3	5877.7	5600.8	5263.6	4884.6	4395.9	3831.1
64°	6718.4	6686.8	6598.6	6457.3	6245.5	5993.8	5687.2	5350.9	4971.0	4525.1	4009.5
65°	6646.9	6602.3	6527.0	6397.0	6200.0	5958.5	5650.1	5309.1	4923.6	4494.4	4015.1
67.5°	6070.0	6049.5	5980.8	5860.0	5736.5	5519.1	5247.8	4943.1	4628.2	4202.7	3809.7
70°	5154.0	5139.1	5051.8	5003.5	4799.1	4661.6	4442.4	4202.7	3924.0	3627.7	3293.2
72.5°	3820.9	3770.7	3700.1	3626.7	3488.3	3299.7	3128.8	2873.3	2729.3	2479.4	2290.9
75°	2026.1	1994.5	1884.9	1731.6	1560.7	1472.4	1295.0	1136.1	1009.8	953.1	816.6
77.5°	700.5	638.2	576.9	508.2	403.2	317.7	253.6	202.5	159.8	141.2	118.0
80°	349.3	331.6	312.1	273.1	229.5	184.9	144.9	114.3	93.8	79.9	71.5
82.5°	283.3	250.8	223.9	196.0	157.0	129.1	102.2	83.6	68.7	60.4	53.0
85°	167.2	128.2	97.5	88.3	68.7	59.5	51.1	43.7	37.2	35.3	32.5
87.5°	6.5	8.4	8.4	6.5	8.4	7.4	7.4	6.5	6.5	6.5	6.5
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):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2.5°	103.1	102.2	102.2	101.3	100.3	100.3	100.3	99.4	97.5	93.8	91.0
5°	106.8	105.9	105.0	103.1	102.2	101.3	100.3	100.3	95.7	89.2	84.5
7.5°	111.5	109.6	107.8	105.9	105.0	103.1	101.3	100.3	93.8	85.5	80.8
10°	116.1	113.3	110.5	109.6	106.8	105.0	102.2	100.3	92.9	82.7	76.2
12.5°	121.7	118.0	114.3	111.5	107.8	105.9	103.1	100.3	91.0	79.9	72.5
15°	128.2	122.6	118.0	115.2	111.5	106.8	103.1	100.3	89.2	77.1	68.7
17.5°	136.6	130.1	124.5	118.9	113.3	108.7	105.0	101.3	86.4	73.4	64.1
20°	149.6	141.2	131.9	125.4	118.0	112.4	105.9	101.3	84.5	69.7	60.4
22.5°	167.2	154.2	144.0	132.8	123.6	116.1	108.7	103.1	81.8	66.0	55.7
25°	192.3	175.6	158.9	144.9	132.8	122.6	113.3	105.9	79.9	63.2	53.0
27.5°	220.2	200.7	178.4	161.6	144.9	130.1	119.8	110.5	79.9	61.3	50.2
30°	259.2	231.3	204.4	183.0	160.7	144.0	129.1	117.1	79.9	60.4	47.4
32.5°	306.6	275.0	240.6	209.9	183.9	159.8	141.2	125.4	81.8	58.5	45.5
35°	372.5	326.1	285.2	247.1	212.7	184.9	160.7	139.3	84.5	57.6	42.7
37.5°	424.5	368.8	316.8	273.1	233.2	198.8	168.1	144.9	81.8	53.9	39.9
40°	486.8	423.6	360.4	305.6	260.1	215.5	180.2	152.4	79.9	49.2	36.2
42.5°	562.0	483.1	409.7	347.4	290.8	237.8	196.0	161.6	79.9	46.4	33.4
45°	632.6	546.2	464.5	386.5	320.5	262.0	210.9	171.9	79.0	43.7	29.7
47.5°	720.0	617.8	522.1	432.0	355.8	284.3	226.7	181.2	78.0	40.9	26.9
50°	823.1	698.6	590.8	483.1	390.2	311.2	245.3	191.4	76.2	38.1	24.2
52.5°	937.3	803.6	666.1	541.6	432.9	340.0	262.9	200.7	73.4	35.3	21.4
55°	1139.9	955.9	793.3	639.1	497.9	382.7	288.9	214.6	70.6	32.5	18.6
57.5°	1625.7	1321.0	1090.6	858.4	655.9	491.4	359.5	254.5	66.9	28.8	14.9
60°	2552.8	2050.3	1659.2	1301.5	992.2	754.3	529.5	376.2	71.5	24.2	13.0
62.5°	3274.7	2696.8	2198.9	1750.2	1359.1	1033.0	771.1	562.0	103.1	21.4	10.2
64°	3463.2	2878.0	2346.6	1876.5	1469.6	1133.4	860.2	635.4	132.8	21.4	9.3
65°	3491.1	2933.7	2399.6	1923.0	1507.7	1160.3	886.2	659.6	144.9	22.3	8.4
67.5°	3375.9	2901.2	2415.3	1942.5	1536.5	1197.5	921.5	697.7	163.5	21.4	6.5
70°	2948.6	2599.3	2199.8	1817.1	1449.2	1138.0	886.2	676.3	170.9	20.4	5.6
72.5°	2006.6	1766.0	1530.0	1258.8	1008.9	831.4	646.6	476.6	119.8	16.7	4.6
75°	668.9	652.1	583.4	442.2	371.6	301.9	241.5	185.8	45.5	10.2	4.6
77.5°	111.5	95.7	83.6	79.9	66.9	65.0	56.7	45.5	19.5	6.5	4.6
80°	65.0	59.5	52.0	46.4	40.9	36.2	30.7	26.0	12.1	4.6	5.6
82.5°	48.3	42.7	38.1	33.4	28.8	25.1	21.4	17.7	6.5	4.6	5.6
85°	27.9	24.2	21.4	18.6	14.9	13.0	11.1	9.3	4.6	4.6	4.6
87.5°	5.6	5.6	4.6	4.6	4.6	4.6	4.6	3.7	4.6	4.6	3.7
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: AVM-F04-LED-E-U-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	99.4	99.4	99.4	99.4	99.4	99.4	99.4
2.5°	89.2	86.4	85.5	85.5	85.5	85.5	85.5
5°	81.8	79.0	77.1	76.2	76.2	76.2	76.2
7.5°	76.2	72.5	70.6	68.7	68.7	67.8	67.8
10°	70.6	66.9	64.1	62.2	61.3	61.3	61.3
12.5°	66.0	62.2	58.5	56.7	56.7	55.7	55.7
15°	62.2	56.7	53.9	52.0	52.0	51.1	51.1
17.5°	57.6	53.0	50.2	48.3	47.4	47.4	47.4
20°	53.0	48.3	45.5	44.6	43.7	43.7	42.7
22.5°	49.2	44.6	41.8	40.9	39.9	39.9	39.0
25°	45.5	40.9	38.1	37.2	36.2	35.3	35.3
27.5°	42.7	38.1	35.3	33.4	32.5	31.6	31.6
30°	39.9	34.4	31.6	29.7	28.8	27.9	27.9
32.5°	37.2	31.6	27.9	26.0	25.1	24.2	24.2
35°	33.4	27.9	24.2	23.2	22.3	21.4	20.4
37.5°	30.7	24.2	21.4	19.5	18.6	17.7	17.7
40°	26.9	21.4	18.6	16.7	14.9	13.9	13.9
42.5°	24.2	18.6	15.8	13.0	12.1	11.1	11.1
45°	21.4	16.7	13.0	10.2	9.3	8.4	8.4
47.5°	18.6	13.9	10.2	8.4	7.4	6.5	6.5
50°	15.8	11.1	7.4	5.6	6.5	5.6	5.6
52.5°	13.9	8.4	5.6	5.6	5.6	5.6	5.6
55°	11.1	6.5	4.6	4.6	5.6	5.6	5.6
57.5°	9.3	4.6	3.7	4.6	4.6	4.6	4.6
60°	6.5	3.7	3.7	4.6	4.6	4.6	4.6
62.5°	5.6	3.7	3.7	3.7	4.6	4.6	4.6
64°	4.6	3.7	3.7	3.7	4.6	4.6	4.6
65°	4.6	3.7	3.7	3.7	4.6	4.6	4.6
67.5°	4.6	3.7	3.7	3.7	4.6	4.6	4.6
70°	3.7	3.7	3.7	3.7	4.6	4.6	4.6
72.5°	3.7	3.7	3.7	3.7	4.6	4.6	4.6
75°	3.7	3.7	3.7	3.7	4.6	4.6	4.6
77.5°	3.7	3.7	3.7	4.6	4.6	4.6	4.6
80°	3.7	3.7	3.7	4.6	4.6	4.6	4.6
82.5°	3.7	3.7	3.7	4.6	4.6	4.6	4.6
85°	3.7	3.7	3.7	4.6	4.6	4.6	4.6
87.5°	3.7	3.7	3.7	4.6	4.6	4.6	4.6
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)