

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: P156301

Luminaire Tested: **AVM-E04-LED-E-U-T4-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156301
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33725)
Test Lab: INNOVATION CENTER-P3
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: AVM-E04-LED-E-U-T4-HSS-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD
Light Source: (84) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7938.1 lumens
Efficiency: N/A
Efficacy: 81.7 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

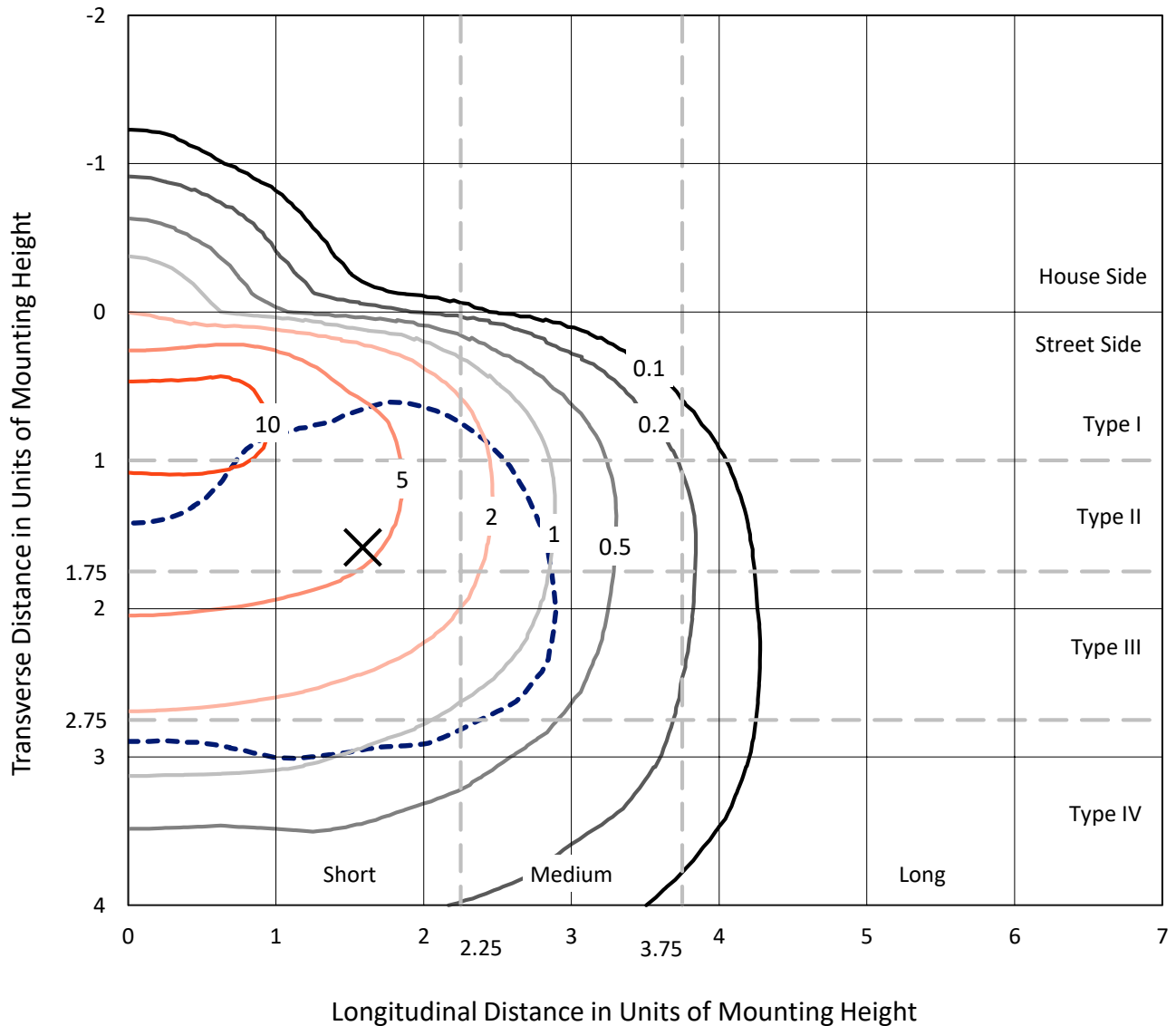
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

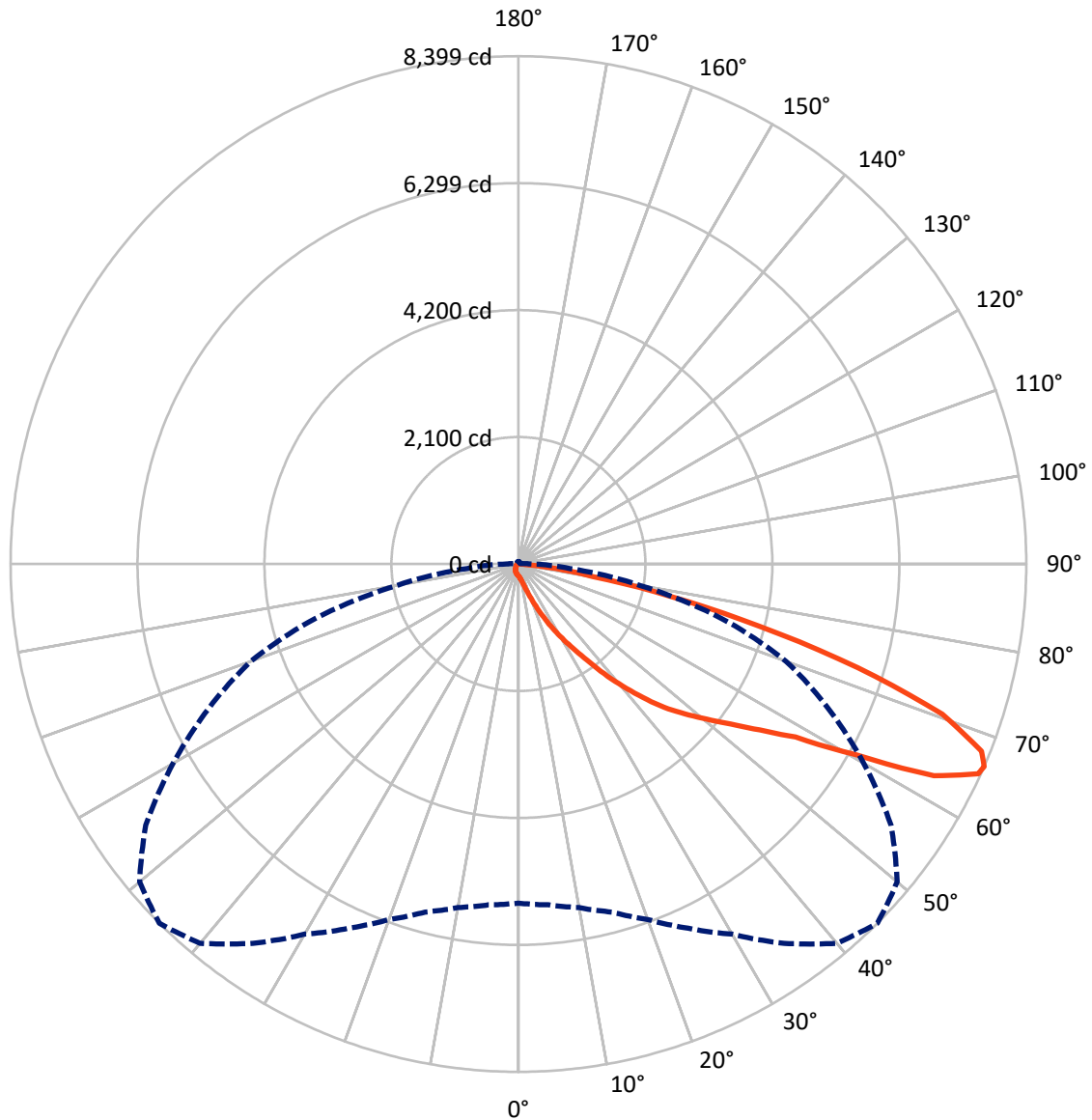
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 12.6 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical



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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	179.9	0.0	179.9
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	7758.2	0.0	7758.2
	% Fixture	97.7	0.0	97.7
Total	Lumens	7938.1	0.0	7938.1
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.0	0.3
10°-20°	81.0	1.0
20°-30°	237.2	3.0
30°-40°	554.0	7.0
40°-50°	1040.6	13.1
50°-60°	1724.4	21.7
60°-70°	2737.5	34.5
70°-80°	1415.7	17.8
80°-90°	127.9	1.6
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°	7938.1	100.0
0°-180°	7938.1	100.0

Coefficient of Utilization



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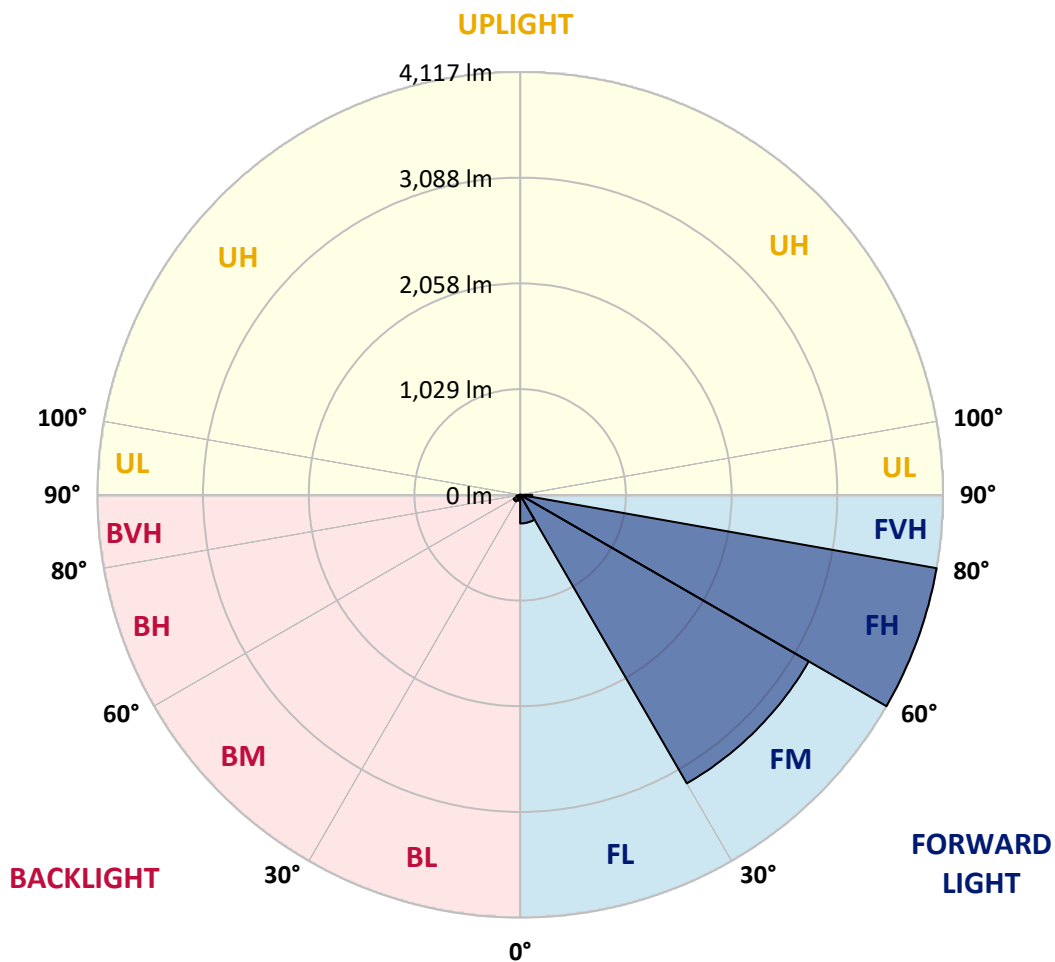
CATALOG NUMBER: AVM-E04-LED-E-U-T4-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	279.3	3.5			
FM (30°-60°)	3244.3	40.9			
FH (60°-80°)	4116.8	51.9			G2/5000
FVH (80°-90°)	117.8	1.5			G2/225
BL (0°-30°)	58.8	0.7	B0/110		
BM (30°-60°)	74.6	0.9	B0/220		
BH (60°-80°)	36.4	0.5	B0/110		G0/110
BVH (80°-90°)	10.1	0.1			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4
2.5°	214.8	214.8	214.8	214.8	213.4	212.1	210.7	209.3	208.0	208.0	206.6
5°	243.5	244.9	243.5	242.2	239.4	238.1	234.0	231.2	227.1	225.7	221.6
7.5°	283.2	281.8	283.2	279.1	273.6	272.3	266.8	259.9	254.5	246.3	240.8
10°	340.7	339.3	340.7	332.5	324.2	317.4	307.8	299.6	287.3	277.7	266.8
12.5°	432.3	432.3	429.6	418.7	407.7	392.7	377.6	359.8	337.9	318.8	301.0
15°	573.3	566.4	554.1	547.3	528.1	504.8	488.4	452.9	421.4	391.3	355.7
17.5°	742.9	729.2	719.6	704.6	680.0	649.9	622.5	570.5	539.0	489.8	439.2
20°	937.2	920.8	918.0	894.8	868.8	835.9	796.3	734.7	681.3	619.8	548.6
22.5°	1135.6	1138.3	1127.3	1110.9	1084.9	1046.6	985.1	929.0	863.3	785.3	693.6
25°	1357.2	1355.8	1346.3	1327.1	1307.9	1260.1	1210.8	1157.4	1079.5	979.6	870.1
27.5°	1565.2	1563.8	1540.5	1541.9	1505.0	1487.2	1439.3	1381.8	1287.4	1204.0	1084.9
30°	1782.7	1769.0	1754.0	1743.0	1717.0	1685.5	1660.9	1592.5	1521.4	1422.9	1325.7
32.5°	2003.0	1987.9	1992.0	1978.3	1957.8	1926.3	1889.4	1833.3	1756.7	1660.9	1570.6
35°	2272.5	2265.6	2254.7	2258.8	2254.7	2231.4	2200.0	2126.1	2042.6	1951.0	1857.9
37.5°	2472.2	2465.4	2472.2	2501.0	2507.8	2522.9	2499.6	2462.7	2402.5	2302.6	2205.4
40°	2656.9	2658.3	2689.8	2725.3	2750.0	2799.2	2807.4	2792.4	2744.5	2652.8	2525.6
42.5°	2822.5	2843.0	2871.7	2930.6	2983.9	3053.7	3105.7	3113.9	3078.3	3018.1	2889.5
45°	3007.2	3025.0	3070.1	3139.9	3213.8	3300.0	3383.4	3427.2	3424.5	3382.0	3243.9
47.5°	3213.8	3237.0	3286.3	3343.7	3442.2	3539.4	3647.5	3725.4	3758.3	3699.5	3565.4
50°	3464.1	3473.7	3516.1	3590.0	3680.3	3792.5	3910.1	4023.7	4088.0	4033.3	3895.1
52.5°	3761.0	3763.8	3803.4	3871.8	3944.3	4067.5	4182.4	4339.7	4423.2	4393.1	4227.6
55°	4168.7	4160.5	4187.9	4246.7	4305.5	4424.6	4539.5	4717.3	4839.1	4841.8	4665.4
57.5°	4725.6	4706.4	4724.2	4770.7	4836.4	4947.2	5092.2	5249.6	5412.4	5401.4	5256.4
60°	5501.3	5494.5	5527.3	5605.3	5717.5	5832.4	5996.6	6208.6	6352.3	6401.5	6249.7
62.5°	6017.1	6036.2	6111.5	6231.9	6448.0	6686.1	6991.2	7315.4	7589.1	7712.2	7502.9
65°	5795.4	5826.9	5944.6	6122.4	6408.4	6765.5	7170.4	7702.6	8174.6	8362.1	8144.5
66°	5608.0	5658.6	5769.4	5958.3	6256.5	6646.4	7069.2	7657.5	8188.3	8399.0	8177.4
67.5°	5283.8	5319.3	5445.2	5654.5	5974.7	6360.5	6817.4	7438.6	8037.8	8260.8	8040.6
70°	4622.9	4636.6	4739.2	4917.1	5164.7	5560.1	5974.7	6572.5	7123.9	7437.2	7196.4
72.5°	3440.9	3460.0	3629.7	3953.9	4275.4	4499.8	4744.7	5223.6	5579.3	5872.1	5825.5
75°	1655.5	1663.7	1777.2	2250.6	2877.2	3145.4	3372.5	3743.2	3878.7	4123.6	4086.6
77.5°	1049.4	1067.1	1141.0	1256.0	1611.7	1930.4	2109.7	2321.7	2361.4	2568.0	2447.6
80°	288.7	335.2	409.1	602.0	1032.9	1231.3	1312.0	1303.8	1312.0	1249.1	1208.1
82.5°	58.8	57.5	69.8	108.1	455.6	716.9	774.4	659.4	655.3	630.7	651.2
85°	15.0	13.7	16.4	34.2	78.0	212.1	266.8	149.1	113.6	108.1	95.8
87.5°	4.1	4.1	4.1	6.8	8.2	10.9	15.0	10.9	8.2	8.2	8.2
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-E04-LED-E-U-T4-HSS-7050

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4
2.5°	205.2	205.2	203.9	202.5	202.5	201.1	199.7	198.4	197.0	195.6	194.3
5°	217.5	214.8	210.7	208.0	205.2	201.1	198.4	195.6	192.9	191.5	188.8
7.5°	234.0	227.1	221.6	213.4	208.0	202.5	197.0	192.9	188.8	186.1	183.3
10°	254.5	243.5	232.6	221.6	212.1	203.9	195.6	188.8	184.7	180.6	177.9
12.5°	280.5	264.1	249.0	232.6	217.5	205.2	194.3	186.1	180.6	176.5	172.4
15°	322.9	296.9	270.9	246.3	227.1	208.0	192.9	183.3	176.5	172.4	168.3
17.5°	389.9	343.4	302.4	268.2	236.7	212.1	192.9	180.6	172.4	166.9	162.8
20°	487.1	410.4	344.8	295.5	254.5	218.9	192.9	176.5	168.3	161.4	157.3
22.5°	602.0	506.2	415.9	333.8	275.0	228.5	192.9	172.4	162.8	157.3	151.9
25°	770.3	643.0	519.9	405.0	309.2	243.5	197.0	169.6	158.7	151.9	146.4
27.5°	967.3	814.0	660.8	499.4	361.2	265.4	202.5	166.9	154.6	146.4	140.9
30°	1191.7	1022.0	834.6	625.2	429.6	294.2	212.1	165.5	149.1	140.9	134.1
32.5°	1435.2	1256.0	1050.7	786.7	530.8	337.9	224.4	164.2	143.7	134.1	125.9
35°	1725.2	1558.3	1307.9	1013.8	688.2	413.2	251.7	166.9	138.2	127.2	117.7
37.5°	2042.6	1864.8	1599.4	1254.6	844.1	498.0	272.3	162.8	128.6	117.7	108.1
40°	2362.8	2158.9	1889.4	1507.7	1042.5	602.0	298.3	158.7	119.0	108.1	98.5
42.5°	2674.7	2459.9	2167.1	1767.6	1251.8	725.1	331.1	158.7	112.2	98.5	88.9
45°	3001.7	2743.1	2423.0	2016.6	1459.8	866.0	377.6	157.3	104.0	90.3	79.4
47.5°	3310.9	3004.4	2636.4	2235.5	1682.8	1020.6	431.0	158.7	97.1	82.1	72.5
50°	3603.7	3252.1	2855.3	2431.2	1896.2	1187.5	496.6	160.1	90.3	75.2	65.7
52.5°	3923.8	3533.9	3090.6	2632.3	2106.9	1355.8	573.3	162.8	83.5	68.4	60.2
55°	4320.6	3888.3	3380.7	2878.6	2329.9	1525.5	647.1	165.5	76.6	62.9	54.7
57.5°	4892.5	4399.9	3851.3	3248.0	2625.5	1718.4	723.7	172.4	71.1	58.8	50.6
60°	5822.8	5235.9	4602.4	3891.0	3067.4	1979.7	834.6	187.4	64.3	53.4	47.9
62.5°	6941.9	6236.0	5430.2	4566.9	3483.3	2156.2	908.4	203.9	58.8	49.3	45.1
65°	7505.6	6616.3	5687.4	4755.7	3536.6	2104.2	878.3	198.4	52.0	43.8	38.3
66°	7522.0	6595.8	5651.8	4714.6	3481.9	2041.3	849.6	195.6	50.6	42.4	35.6
67.5°	7366.1	6419.3	5463.0	4528.5	3320.5	1919.5	797.6	186.1	46.5	38.3	31.5
70°	6595.8	5673.7	4796.7	3933.4	2856.7	1617.1	669.0	164.2	41.0	34.2	28.7
72.5°	5257.8	4506.7	3767.9	3094.7	2220.5	1213.5	528.1	134.1	35.6	30.1	24.6
75°	3672.1	3055.1	2492.8	2012.5	1395.5	726.5	342.0	94.4	30.1	24.6	20.5
77.5°	2049.5	1625.4	1228.6	935.8	556.8	227.1	113.6	47.9	26.0	19.2	16.4
80°	1042.5	773.0	588.3	433.7	257.2	117.7	57.5	31.5	20.5	15.0	13.7
82.5°	606.1	444.6	354.3	280.5	176.5	88.9	46.5	23.3	13.7	10.9	12.3
85°	135.4	179.2	151.9	128.6	94.4	56.1	32.8	15.0	9.6	9.6	10.9
87.5°	10.9	15.0	13.7	17.8	19.2	17.8	13.7	8.2	6.8	8.2	8.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4	198.4
2.5°	192.9	191.5	191.5	190.2	188.8	188.8	188.8	187.4	188.8	188.8	188.8
5°	187.4	186.1	184.7	183.3	182.0	180.6	180.6	179.2	179.2	179.2	180.6
7.5°	182.0	179.2	177.9	175.1	173.8	172.4	172.4	171.0	171.0	171.0	171.0
10°	175.1	172.4	169.6	168.3	166.9	164.2	164.2	162.8	161.4	161.4	161.4
12.5°	169.6	166.9	164.2	161.4	158.7	157.3	156.0	154.6	153.2	153.2	153.2
15°	164.2	160.1	157.3	154.6	151.9	149.1	147.8	146.4	145.0	143.7	143.7
17.5°	158.7	154.6	150.5	147.8	145.0	142.3	140.9	136.8	136.8	135.4	135.4
20°	151.9	147.8	143.7	140.9	138.2	135.4	132.7	130.0	127.2	125.9	125.9
22.5°	146.4	142.3	138.2	134.1	130.0	125.9	123.1	120.4	119.0	117.7	116.3
25°	140.9	135.4	130.0	125.9	121.8	117.7	114.9	112.2	109.5	108.1	108.1
27.5°	134.1	128.6	123.1	117.7	113.6	109.5	106.7	102.6	101.2	99.9	98.5
30°	127.2	120.4	114.9	109.5	105.3	99.9	97.1	94.4	91.7	91.7	90.3
32.5°	119.0	112.2	106.7	101.2	95.8	91.7	88.9	86.2	84.8	82.1	82.1
35°	110.8	104.0	97.1	91.7	87.6	83.5	80.7	78.0	75.2	73.9	73.9
37.5°	101.2	94.4	88.9	83.5	79.4	75.2	72.5	69.8	68.4	67.0	65.7
40°	90.3	83.5	79.4	75.2	71.1	68.4	64.3	61.6	60.2	58.8	57.5
42.5°	80.7	73.9	71.1	68.4	64.3	61.6	57.5	54.7	52.0	50.6	49.3
45°	72.5	67.0	64.3	61.6	57.5	53.4	50.6	47.9	45.1	43.8	43.8
47.5°	64.3	60.2	57.5	54.7	50.6	47.9	43.8	42.4	39.7	39.7	39.7
50°	58.8	54.7	52.0	49.3	46.5	42.4	39.7	38.3	36.9	36.9	38.3
52.5°	54.7	50.6	47.9	45.1	42.4	39.7	36.9	35.6	35.6	36.9	38.3
55°	50.6	46.5	43.8	41.0	38.3	36.9	34.2	34.2	35.6	36.9	38.3
57.5°	47.9	42.4	39.7	38.3	35.6	34.2	34.2	34.2	35.6	36.9	39.7
60°	43.8	38.3	35.6	35.6	32.8	32.8	32.8	34.2	35.6	38.3	39.7
62.5°	38.3	34.2	32.8	32.8	31.5	31.5	32.8	34.2	36.9	38.3	39.7
65°	32.8	30.1	30.1	30.1	30.1	31.5	32.8	34.2	35.6	38.3	39.7
66°	30.1	28.7	28.7	30.1	30.1	31.5	32.8	34.2	35.6	36.9	38.3
67.5°	28.7	27.4	27.4	28.7	30.1	30.1	31.5	34.2	35.6	36.9	36.9
70°	24.6	24.6	24.6	27.4	28.7	30.1	31.5	32.8	34.2	35.6	36.9
72.5°	21.9	21.9	23.3	24.6	27.4	28.7	30.1	31.5	34.2	35.6	35.6
75°	19.2	19.2	21.9	23.3	26.0	27.4	30.1	31.5	32.8	34.2	34.2
77.5°	16.4	17.8	20.5	23.3	24.6	27.4	28.7	30.1	31.5	32.8	32.8
80°	15.0	17.8	20.5	21.9	23.3	24.6	26.0	28.7	30.1	31.5	32.8
82.5°	15.0	16.4	19.2	20.5	21.9	24.6	26.0	27.4	28.7	30.1	31.5
85°	12.3	15.0	16.4	19.2	20.5	23.3	24.6	24.6	26.0	27.4	28.7
87.5°	9.6	10.9	10.9	13.7	15.0	17.8	20.5	20.5	21.9	23.3	24.6
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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CATALOG NUMBER: AVM-E04-LED-E-U-T4-HSS-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	198.4	198.4	198.4	198.4
2.5°	188.8	190.2	190.2	190.2
5°	180.6	180.6	180.6	180.6
7.5°	171.0	171.0	171.0	171.0
10°	161.4	161.4	162.8	161.4
12.5°	153.2	151.9	151.9	151.9
15°	143.7	143.7	142.3	143.7
17.5°	134.1	134.1	132.7	132.7
20°	124.5	124.5	124.5	124.5
22.5°	116.3	114.9	114.9	114.9
25°	106.7	106.7	106.7	106.7
27.5°	98.5	98.5	98.5	98.5
30°	90.3	90.3	88.9	88.9
32.5°	82.1	82.1	82.1	82.1
35°	73.9	73.9	72.5	72.5
37.5°	64.3	64.3	64.3	64.3
40°	56.1	56.1	56.1	56.1
42.5°	49.3	49.3	47.9	47.9
45°	42.4	42.4	42.4	42.4
47.5°	39.7	39.7	39.7	39.7
50°	38.3	39.7	39.7	39.7
52.5°	39.7	39.7	39.7	39.7
55°	39.7	41.0	41.0	41.0
57.5°	39.7	41.0	41.0	42.4
60°	41.0	42.4	42.4	42.4
62.5°	41.0	42.4	42.4	42.4
65°	39.7	41.0	41.0	41.0
66°	39.7	39.7	39.7	41.0
67.5°	38.3	39.7	39.7	39.7
70°	36.9	38.3	38.3	39.7
72.5°	36.9	38.3	38.3	38.3
75°	35.6	35.6	36.9	36.9
77.5°	34.2	34.2	35.6	35.6
80°	32.8	34.2	34.2	34.2
82.5°	31.5	32.8	32.8	32.8
85°	28.7	30.1	30.1	30.1
87.5°	24.6	24.6	26.0	26.0
90°	0.0	0.0	0.0	0.0

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