

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: P156311

Luminaire Tested: **AVM-E05-LED-E-U-T4-HSS-7050**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156311
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-E05-LED-E-U-T4-HSS-7050
Description: VISION SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD
Light Source: (105) 5000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9922.6 lumens
Efficiency: N/A
Efficacy: 77.9 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G3

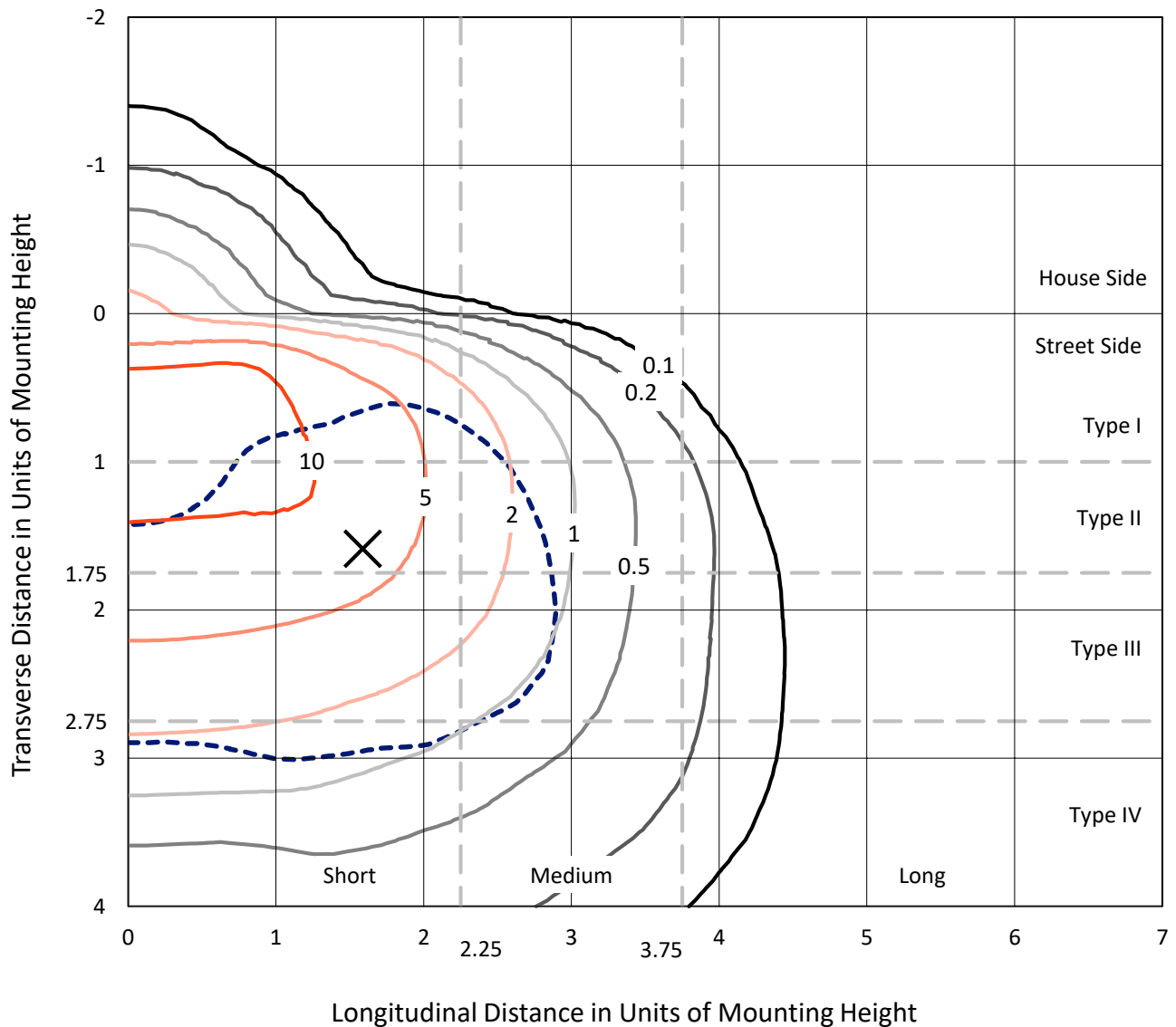
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

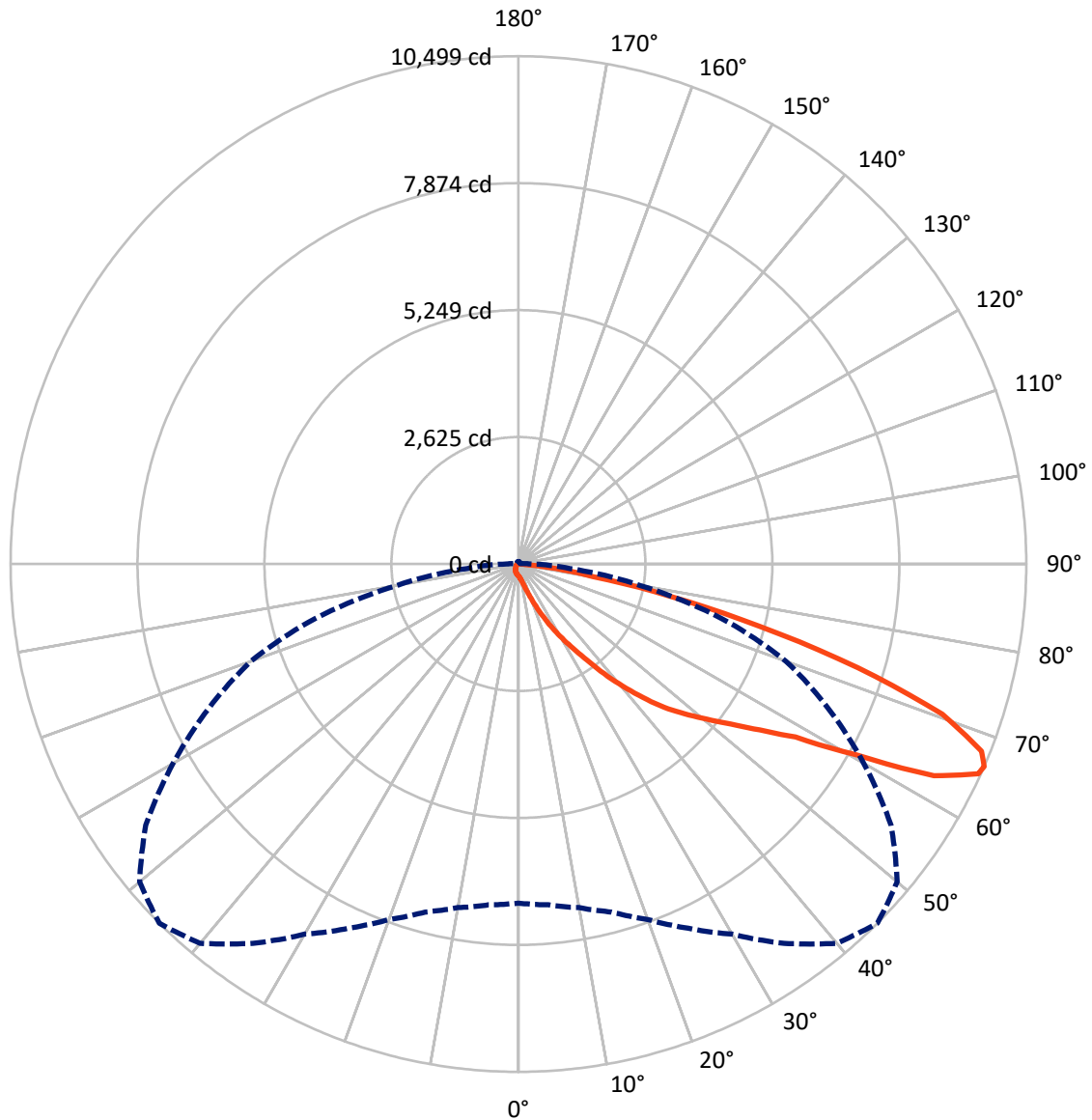
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 15.7 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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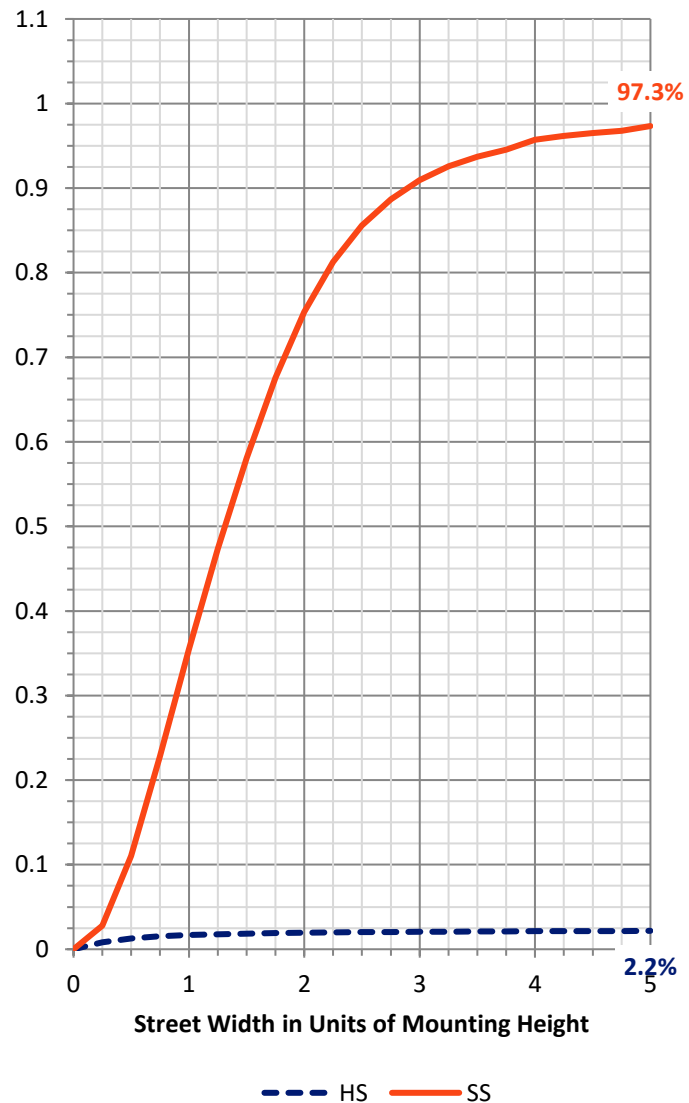
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	224.9	0.0	224.9
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	9697.7	0.0	9697.7
	% Fixture	97.7	0.0	97.7
Total	Lumens	9922.6	0.0	9922.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	25.0	0.3
10°-20°	101.2	1.0
20°-30°	296.4	3.0
30°-40°	692.5	7.0
40°-50°	1300.7	13.1
50°-60°	2155.5	21.7
60°-70°	3421.9	34.5
70°-80°	1769.7	17.8
80°-90°	159.8	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°	9922.6	100.0
0°-180°	9922.6	100.0



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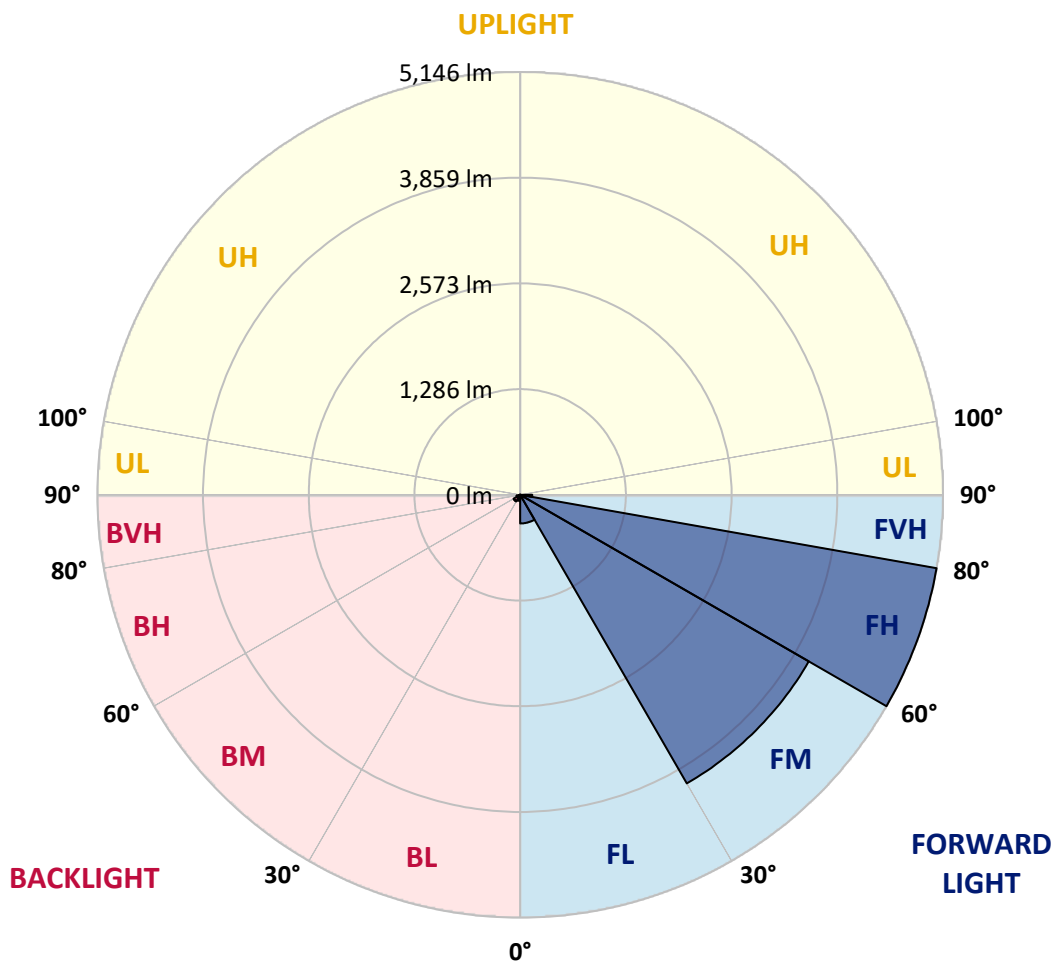
CATALOG NUMBER: AVM-E05-LED-E-U-T4-HSS-7050

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	349.2	3.5			
FM	(30°-60°)	4055.4	40.9			
FH	(60°-80°)	5146.0	51.9			G3/7500
FVH	(80°-90°)	147.2	1.5			G2/225
BL	(0°-30°)	73.4	0.7	B0/110		
BM	(30°-60°)	93.3	0.9	B0/220		
BH	(60°-80°)	45.5	0.5	B0/110		G0/110
BVH	(80°-90°)	12.6	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-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0
2.5°	268.5	268.5	268.5	268.5	266.8	265.1	263.4	261.7	259.9	259.9	258.2
5°	304.4	306.1	304.4	302.7	299.3	297.6	292.4	289.0	283.9	282.2	277.0
7.5°	354.0	352.3	354.0	348.9	342.0	340.3	333.5	324.9	318.1	307.8	301.0
10°	425.8	424.1	425.8	415.6	405.3	396.8	384.8	374.5	359.1	347.2	333.5
12.5°	540.4	540.4	537.0	523.3	509.6	490.8	472.0	449.8	422.4	398.5	376.2
15°	716.6	708.0	692.6	684.1	660.1	631.1	610.5	566.1	526.7	489.1	444.6
17.5°	928.6	911.5	899.6	880.7	850.0	812.3	778.1	713.1	673.8	612.2	549.0
20°	1171.5	1150.9	1147.5	1118.5	1086.0	1044.9	995.3	918.4	851.7	774.7	685.8
22.5°	1419.4	1422.9	1409.2	1388.7	1356.2	1308.3	1231.3	1161.2	1079.1	981.6	867.1
25°	1696.5	1694.8	1682.8	1658.9	1634.9	1575.1	1513.5	1446.8	1349.3	1224.5	1087.7
27.5°	1956.4	1954.7	1925.7	1927.4	1881.2	1859.0	1799.1	1727.3	1609.3	1505.0	1356.2
30°	2228.4	2211.3	2192.4	2178.8	2146.3	2106.9	2076.2	1990.6	1901.7	1778.6	1657.2
32.5°	2503.7	2484.9	2490.0	2472.9	2447.3	2407.9	2361.8	2291.6	2195.9	2076.2	1963.3
35°	2840.6	2832.1	2818.4	2823.5	2818.4	2789.3	2750.0	2657.6	2553.3	2438.7	2322.4
37.5°	3090.3	3081.7	3090.3	3126.2	3134.8	3153.6	3124.5	3078.3	3003.1	2878.2	2756.8
40°	3321.2	3322.9	3362.2	3406.7	3437.5	3499.0	3509.3	3490.5	3430.6	3316.0	3157.0
42.5°	3528.1	3553.7	3589.7	3663.2	3729.9	3817.1	3882.1	3892.4	3847.9	3772.6	3611.9
45°	3759.0	3781.2	3837.6	3924.9	4017.2	4124.9	4229.3	4284.0	4280.6	4227.6	4054.8
47.5°	4017.2	4046.3	4107.8	4179.7	4302.8	4424.2	4559.3	4656.8	4697.9	4624.3	4456.7
50°	4330.2	4342.1	4395.2	4487.5	4600.4	4740.6	4887.7	5029.6	5110.0	5041.6	4868.9
52.5°	4701.3	4704.7	4754.3	4839.8	4930.4	5084.4	5228.0	5424.7	5529.0	5491.4	5284.4
55°	5210.9	5200.6	5234.8	5308.4	5381.9	5530.7	5674.4	5896.7	6048.9	6052.3	5831.7
57.5°	5906.9	5883.0	5905.2	5963.4	6045.5	6184.0	6365.3	6561.9	6765.5	6751.8	6570.5
60°	6876.6	6868.1	6909.1	7006.6	7146.8	7290.5	7495.7	7760.8	7940.3	8001.9	7812.1
62.5°	7521.4	7545.3	7639.4	7789.9	8060.1	8357.6	8739.0	9144.3	9486.3	9640.3	9378.6
65°	7244.3	7283.6	7430.7	7653.0	8010.5	8456.8	8963.0	9628.3	10218.3	10452.6	10180.7
66°	7010.0	7073.3	7211.8	7447.8	7820.6	8308.0	8836.5	9571.9	10235.4	10498.8	10221.7
67.5°	6604.7	6649.2	6806.5	7068.2	7468.3	7950.6	8521.8	9298.2	10047.3	10326.0	10050.7
70°	5778.7	5795.8	5924.0	6146.4	6455.9	6950.2	7468.3	8215.7	8904.9	9296.5	8995.5
72.5°	4301.1	4325.0	4537.1	4942.4	5344.3	5624.8	5930.9	6529.5	6974.1	7340.1	7281.9
75°	2069.3	2079.6	2221.5	2813.2	3596.5	3931.7	4215.6	4679.0	4848.3	5154.5	5108.3
77.5°	1311.7	1333.9	1426.3	1569.9	2014.6	2413.1	2637.1	2902.2	2951.8	3210.0	3059.5
80°	360.8	419.0	511.3	752.5	1291.2	1539.2	1640.1	1629.8	1640.1	1561.4	1510.1
82.5°	73.5	71.8	87.2	135.1	569.5	896.1	968.0	824.3	819.2	788.4	814.0
85°	18.8	17.1	20.5	42.8	97.5	265.1	333.5	186.4	141.9	135.1	119.7
87.5°	5.1	5.1	5.1	8.6	10.3	13.7	18.8	13.7	10.3	10.3	10.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0
2.5°	256.5	256.5	254.8	253.1	253.1	251.4	249.7	248.0	246.3	244.6	242.8
5°	271.9	268.5	263.4	259.9	256.5	251.4	248.0	244.6	241.1	239.4	236.0
7.5°	292.4	283.9	277.0	266.8	259.9	253.1	246.3	241.1	236.0	232.6	229.2
10°	318.1	304.4	290.7	277.0	265.1	254.8	244.6	236.0	230.9	225.7	222.3
12.5°	350.6	330.1	311.3	290.7	271.9	256.5	242.8	232.6	225.7	220.6	215.5
15°	403.6	371.1	338.6	307.8	283.9	259.9	241.1	229.2	220.6	215.5	210.4
17.5°	487.4	429.3	377.9	335.2	295.9	265.1	241.1	225.7	215.5	208.6	203.5
20°	608.8	513.1	431.0	369.4	318.1	273.6	241.1	220.6	210.4	201.8	196.7
22.5°	752.5	632.8	519.9	417.3	343.7	285.6	241.1	215.5	203.5	196.7	189.8
25°	962.8	803.8	649.9	506.2	386.5	304.4	246.3	212.1	198.4	189.8	183.0
27.5°	1209.1	1017.6	826.0	624.2	451.5	331.8	253.1	208.6	193.2	183.0	176.1
30°	1489.6	1277.5	1043.2	781.6	537.0	367.7	265.1	206.9	186.4	176.1	167.6
32.5°	1794.0	1569.9	1313.4	983.4	663.5	422.4	280.5	205.2	179.6	167.6	157.3
35°	2156.5	1947.9	1634.9	1267.2	860.2	516.5	314.7	208.6	172.7	159.0	147.1
37.5°	2553.3	2331.0	1999.2	1568.2	1055.2	622.5	340.3	203.5	160.8	147.1	135.1
40°	2953.5	2698.7	2361.8	1884.6	1303.2	752.5	372.8	198.4	148.8	135.1	123.1
42.5°	3343.4	3074.9	2708.9	2209.5	1564.8	906.4	413.9	198.4	140.2	123.1	111.2
45°	3752.1	3428.9	3028.7	2520.8	1824.8	1082.5	472.0	196.7	130.0	112.9	99.2
47.5°	4138.6	3755.5	3295.5	2794.4	2103.5	1275.8	538.7	198.4	121.4	102.6	90.6
50°	4504.6	4065.1	3569.1	3039.0	2370.3	1484.4	620.8	200.1	112.9	94.1	82.1
52.5°	4904.8	4417.4	3863.3	3290.4	2633.7	1694.8	716.6	203.5	104.3	85.5	75.2
55°	5400.7	4860.3	4225.8	3598.2	2912.4	1906.8	808.9	206.9	95.8	78.7	68.4
57.5°	6115.6	5499.9	4814.1	4060.0	3281.8	2148.0	904.7	215.5	88.9	73.5	63.3
60°	7278.5	6544.8	5753.0	4863.7	3834.2	2474.6	1043.2	234.3	80.4	66.7	59.9
62.5°	8677.4	7795.0	6787.7	5708.6	4354.1	2695.2	1135.6	254.8	73.5	61.6	56.4
65°	9382.0	8270.4	7109.2	5944.6	4420.8	2630.3	1097.9	248.0	65.0	54.7	47.9
66°	9402.5	8244.8	7064.7	5893.3	4352.4	2551.6	1062.0	244.6	63.3	53.0	44.5
67.5°	9207.6	8024.1	6828.7	5660.7	4150.6	2399.4	997.0	232.6	58.1	47.9	39.3
70°	8244.8	7092.1	5995.9	4916.8	3570.8	2021.4	836.3	205.2	51.3	42.8	35.9
72.5°	6572.2	5633.3	4709.8	3868.4	2775.6	1516.9	660.1	167.6	44.5	37.6	30.8
75°	4590.1	3818.8	3115.9	2515.7	1744.4	908.1	427.5	118.0	37.6	30.8	25.7
77.5°	2561.8	2031.7	1535.7	1169.8	696.0	283.9	141.9	59.9	32.5	23.9	20.5
80°	1303.2	966.2	735.4	542.1	321.5	147.1	71.8	39.3	25.7	18.8	17.1
82.5°	757.6	555.8	442.9	350.6	220.6	111.2	58.1	29.1	17.1	13.7	15.4
85°	169.3	224.0	189.8	160.8	118.0	70.1	41.0	18.8	12.0	12.0	13.7
87.5°	13.7	18.8	17.1	22.2	23.9	22.2	17.1	10.3	8.6	10.3	10.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0	248.0
2.5°	241.1	239.4	239.4	237.7	236.0	236.0	236.0	234.3	236.0	236.0	236.0
5°	234.3	232.6	230.9	229.2	227.5	225.7	225.7	224.0	224.0	224.0	225.7
7.5°	227.5	224.0	222.3	218.9	217.2	215.5	215.5	213.8	213.8	213.8	213.8
10°	218.9	215.5	212.1	210.4	208.6	205.2	205.2	203.5	201.8	201.8	201.8
12.5°	212.1	208.6	205.2	201.8	198.4	196.7	195.0	193.2	191.5	191.5	191.5
15°	205.2	200.1	196.7	193.2	189.8	186.4	184.7	183.0	181.3	179.6	179.6
17.5°	198.4	193.2	188.1	184.7	181.3	177.9	176.1	171.0	171.0	169.3	169.3
20°	189.8	184.7	179.6	176.1	172.7	169.3	165.9	162.5	159.0	157.3	157.3
22.5°	183.0	177.9	172.7	167.6	162.5	157.3	153.9	150.5	148.8	147.1	145.4
25°	176.1	169.3	162.5	157.3	152.2	147.1	143.7	140.2	136.8	135.1	135.1
27.5°	167.6	160.8	153.9	147.1	141.9	136.8	133.4	128.3	126.6	124.8	123.1
30°	159.0	150.5	143.7	136.8	131.7	124.8	121.4	118.0	114.6	114.6	112.9
32.5°	148.8	140.2	133.4	126.6	119.7	114.6	111.2	107.7	106.0	102.6	102.6
35°	138.5	130.0	121.4	114.6	109.5	104.3	100.9	97.5	94.1	92.3	92.3
37.5°	126.6	118.0	111.2	104.3	99.2	94.1	90.6	87.2	85.5	83.8	82.1
40°	112.9	104.3	99.2	94.1	88.9	85.5	80.4	77.0	75.2	73.5	71.8
42.5°	100.9	92.3	88.9	85.5	80.4	77.0	71.8	68.4	65.0	63.3	61.6
45°	90.6	83.8	80.4	77.0	71.8	66.7	63.3	59.9	56.4	54.7	54.7
47.5°	80.4	75.2	71.8	68.4	63.3	59.9	54.7	53.0	49.6	49.6	49.6
50°	73.5	68.4	65.0	61.6	58.1	53.0	49.6	47.9	46.2	46.2	47.9
52.5°	68.4	63.3	59.9	56.4	53.0	49.6	46.2	44.5	44.5	46.2	47.9
55°	63.3	58.1	54.7	51.3	47.9	46.2	42.8	42.8	44.5	46.2	47.9
57.5°	59.9	53.0	49.6	47.9	44.5	42.8	42.8	42.8	44.5	46.2	49.6
60°	54.7	47.9	44.5	44.5	41.0	41.0	41.0	42.8	44.5	47.9	49.6
62.5°	47.9	42.8	41.0	41.0	39.3	39.3	41.0	42.8	46.2	47.9	49.6
65°	41.0	37.6	37.6	37.6	37.6	39.3	41.0	42.8	44.5	47.9	49.6
66°	37.6	35.9	35.9	37.6	37.6	39.3	41.0	42.8	44.5	46.2	47.9
67.5°	35.9	34.2	34.2	35.9	37.6	37.6	39.3	42.8	44.5	46.2	46.2
70°	30.8	30.8	30.8	34.2	35.9	37.6	39.3	41.0	42.8	44.5	46.2
72.5°	27.4	27.4	29.1	30.8	34.2	35.9	37.6	39.3	42.8	44.5	44.5
75°	23.9	23.9	27.4	29.1	32.5	34.2	37.6	39.3	41.0	42.8	42.8
77.5°	20.5	22.2	25.7	29.1	30.8	34.2	35.9	37.6	39.3	41.0	41.0
80°	18.8	22.2	25.7	27.4	29.1	30.8	32.5	35.9	37.6	39.3	41.0
82.5°	18.8	20.5	23.9	25.7	27.4	30.8	32.5	34.2	35.9	37.6	39.3
85°	15.4	18.8	20.5	23.9	25.7	29.1	30.8	30.8	32.5	34.2	35.9
87.5°	12.0	13.7	13.7	17.1	18.8	22.2	25.7	25.7	27.4	29.1	30.8
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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CATALOG NUMBER: AVM-E05-LED-E-U-T4-HSS-7050

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	248.0	248.0	248.0	248.0
2.5°	236.0	237.7	237.7	237.7
5°	225.7	225.7	225.7	225.7
7.5°	213.8	213.8	213.8	213.8
10°	201.8	201.8	203.5	201.8
12.5°	191.5	189.8	189.8	189.8
15°	179.6	179.6	177.9	179.6
17.5°	167.6	167.6	165.9	165.9
20°	155.6	155.6	155.6	155.6
22.5°	145.4	143.7	143.7	143.7
25°	133.4	133.4	133.4	133.4
27.5°	123.1	123.1	123.1	123.1
30°	112.9	112.9	111.2	111.2
32.5°	102.6	102.6	102.6	102.6
35°	92.3	92.3	90.6	90.6
37.5°	80.4	80.4	80.4	80.4
40°	70.1	70.1	70.1	70.1
42.5°	61.6	61.6	59.9	59.9
45°	53.0	53.0	53.0	53.0
47.5°	49.6	49.6	49.6	49.6
50°	47.9	49.6	49.6	49.6
52.5°	49.6	49.6	49.6	49.6
55°	49.6	51.3	51.3	51.3
57.5°	49.6	51.3	51.3	53.0
60°	51.3	53.0	53.0	53.0
62.5°	51.3	53.0	53.0	53.0
65°	49.6	51.3	51.3	51.3
66°	49.6	49.6	49.6	51.3
67.5°	47.9	49.6	49.6	49.6
70°	46.2	47.9	47.9	49.6
72.5°	46.2	47.9	47.9	47.9
75°	44.5	44.5	46.2	46.2
77.5°	42.8	42.8	44.5	44.5
80°	41.0	42.8	42.8	42.8
82.5°	39.3	41.0	41.0	41.0
85°	35.9	37.6	37.6	37.6
87.5°	30.8	30.8	32.5	32.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)