

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: P155258

Luminaire Tested: **AVM-E04-LED-E-U-T3-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P155258
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33724)
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-T3-HSS-8030
Description: VISION SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 3 AREA W/ HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5503.9 lumens
Efficiency: N/A
Efficacy: 56.6 lumens/watt
Luminous Opening: Rectangular (W 0.67' x L: 1' x H: 0')
IES Classification: Type III - Short - Non-Cutoff
BUG Rating: B0 - U0 - G2

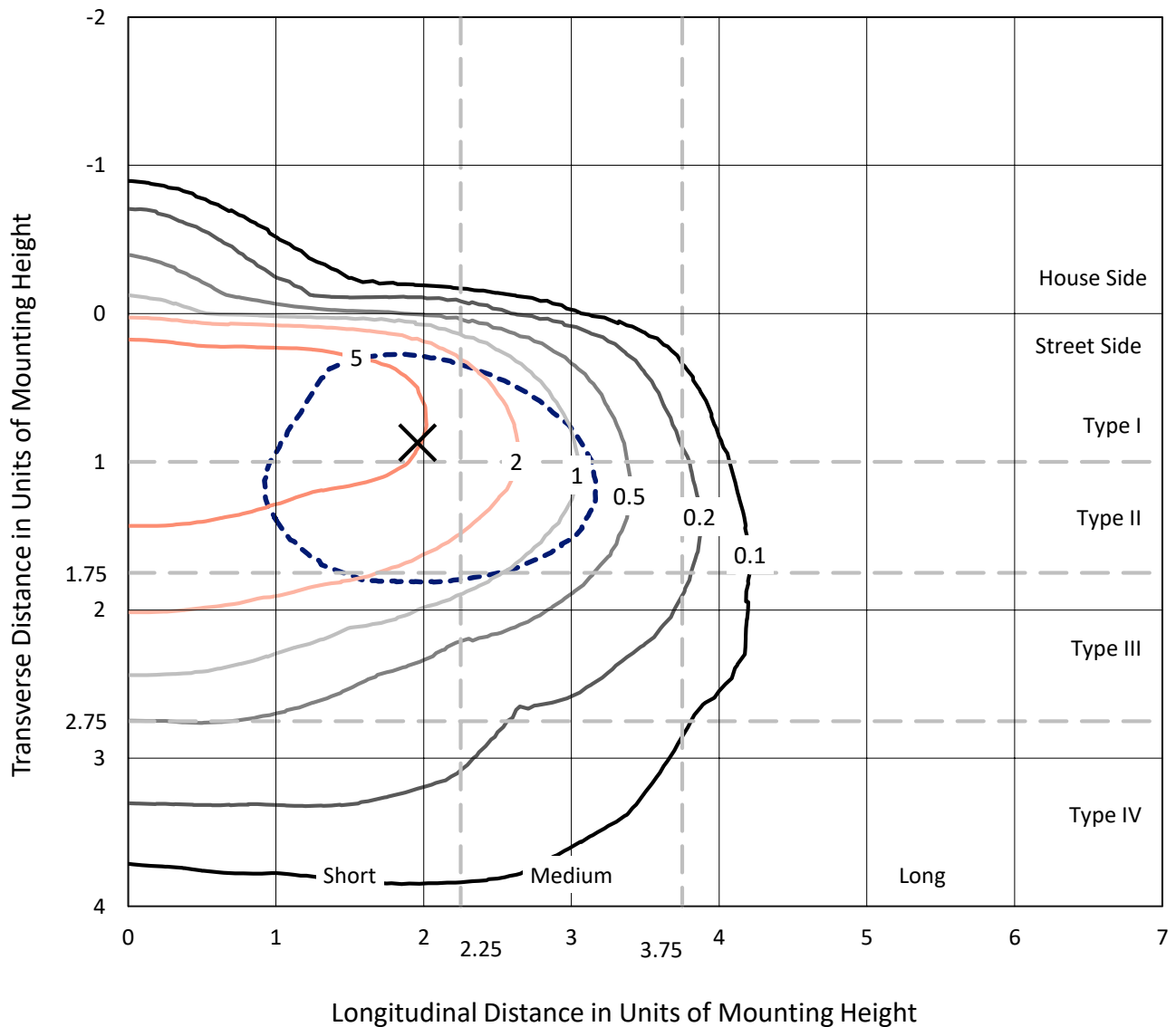
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P155258
 CATALOG NUMBER: AVM-E04-LED-E-U-T3-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

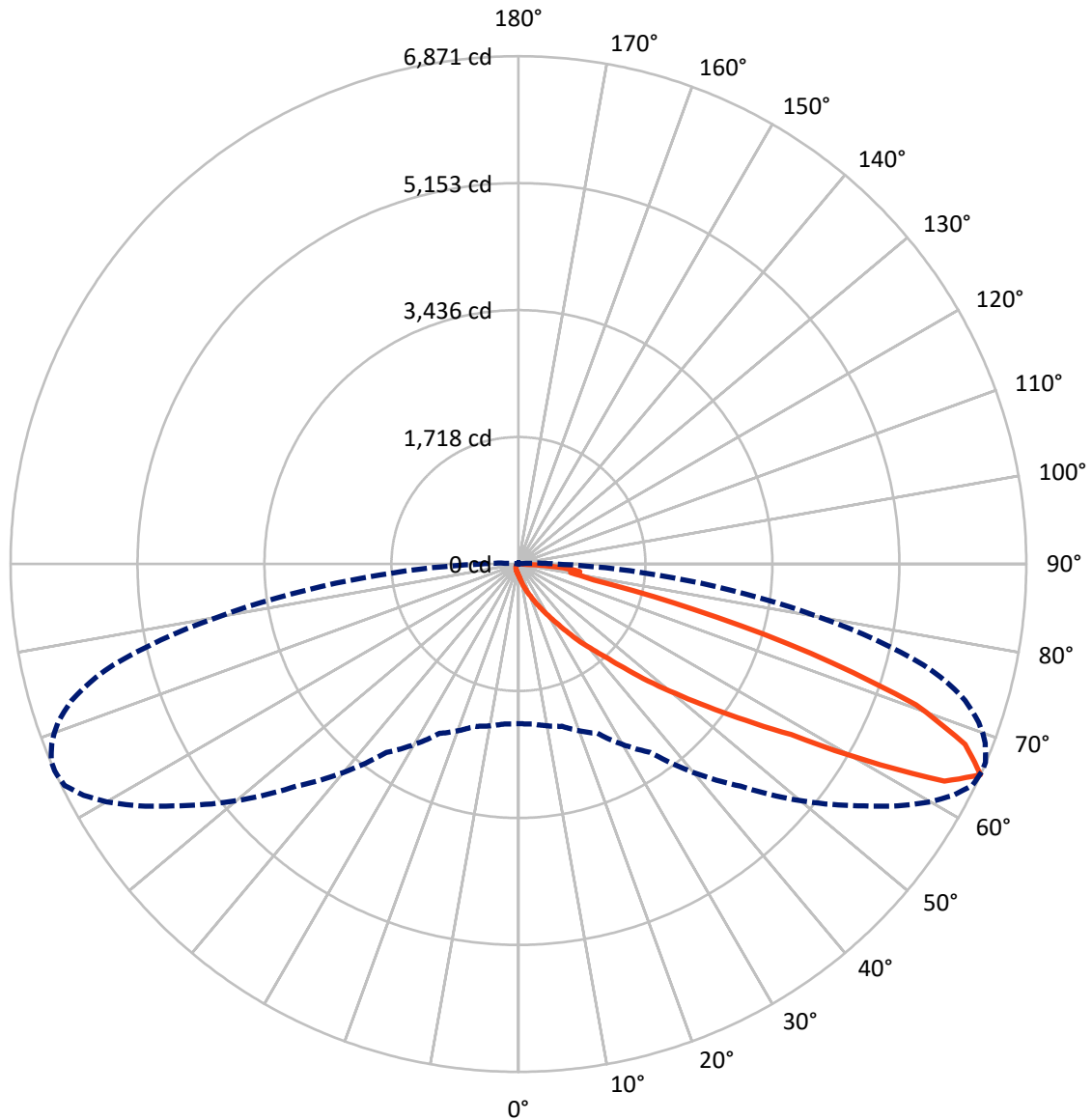
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8 fc
 Type III - Short - Non-Cutoff

REPORT NUMBER: P155258
CATALOG NUMBER: AVM-E04-LED-E-U-T3-HSS-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 66-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

REPORT NUMBER: P155258

CATALOG NUMBER: AVM-E04-LED-E-U-T3-HSS-8030

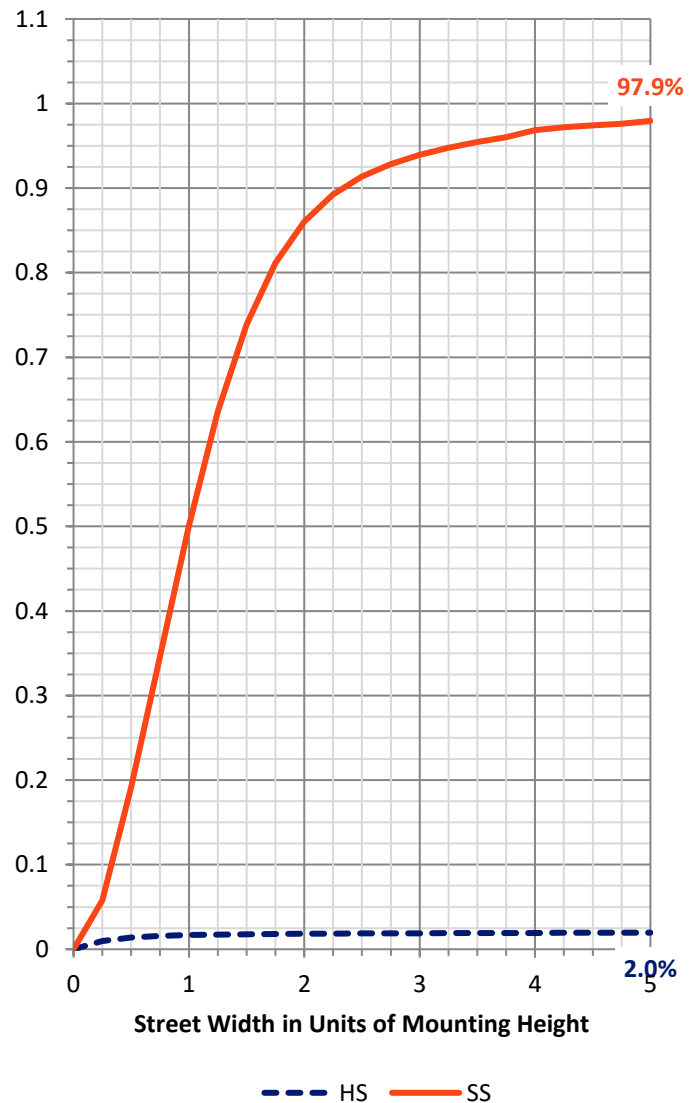
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	110.5	0.0	110.5
	% Fixture	2.0	0.0	2.0
Street Side	Lumens	5393.4	0.0	5393.4
	% Fixture	98.0	0.0	98.0
Total	Lumens	5503.9	0.0	5503.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.7	0.3
10°-20°	89.5	1.6
20°-30°	204.4	3.7
30°-40°	388.9	7.1
40°-50°	780.7	14.2
50°-60°	1381.3	25.1
60°-70°	1804.8	32.8
70°-80°	742.1	13.5
80°-90°	93.5	1.7
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°	5503.9	100.0
0°-180°	5503.9	100.0



REPORT NUMBER: P155258

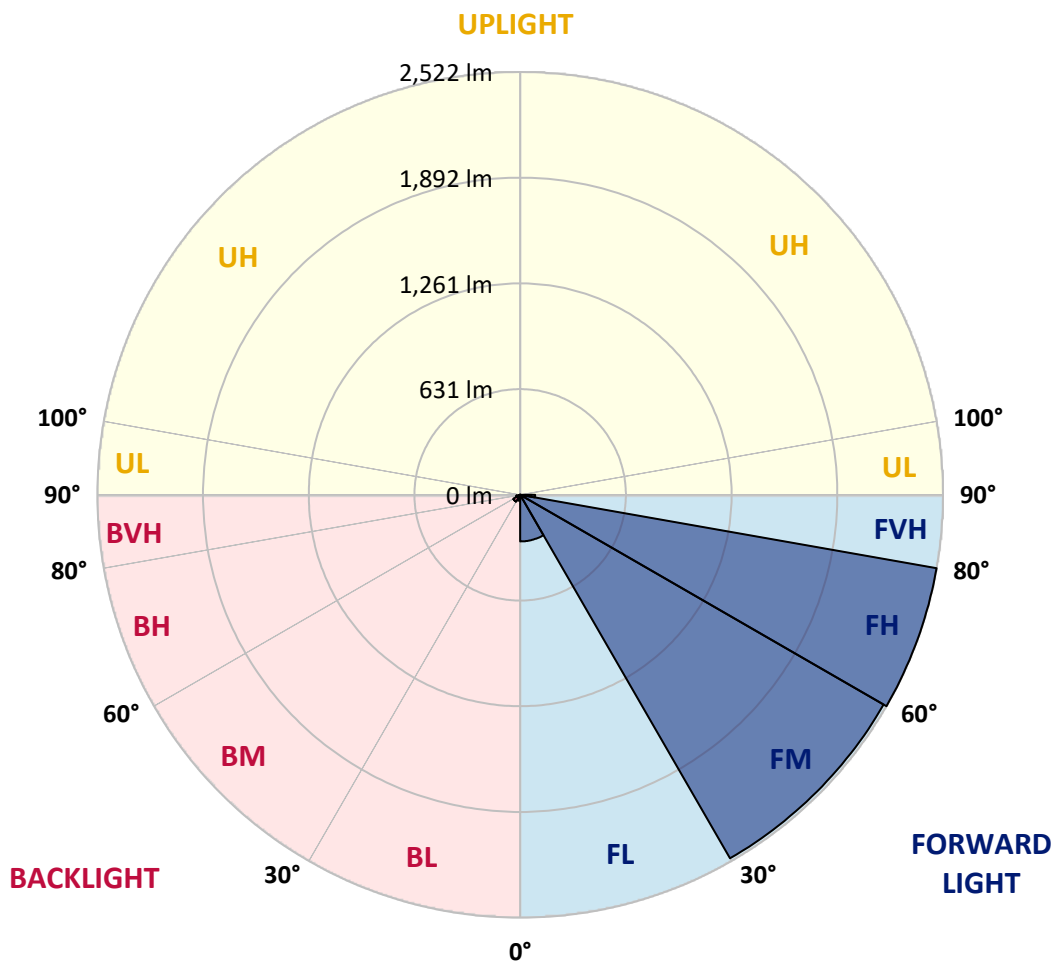
CATALOG NUMBER: AVM-E04-LED-E-U-T3-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	278.1	5.1			
FM	(30°-60°)	2503.6	45.5			
FH	(60°-80°)	2522.4	45.8			G2/5000
FVH	(80°-90°)	89.3	1.6			G1/100
BL	(0°-30°)	34.6	0.6	B0/110		
BM	(30°-60°)	47.3	0.9	B0/220		
BH	(60°-80°)	24.4	0.4	B0/110		G0/110
BVH	(80°-90°)	4.2	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-G2

Type III Short





REPORT NUMBER: P155258

CATALOG NUMBER: AVM-E04-LED-E-U-T3-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0
2.5°	202.6	199.2	200.3	193.6	189.1	183.4	178.9	177.8	176.7	174.4	175.6
5°	291.5	288.1	280.2	266.7	254.3	235.2	216.1	214.9	211.6	208.2	205.9
7.5°	405.1	399.5	390.5	368.0	337.6	303.8	265.6	262.2	257.7	253.2	248.7
10°	536.8	533.4	516.5	490.6	444.5	389.4	325.2	321.8	311.7	306.1	301.6
12.5°	675.2	660.6	653.8	608.8	555.9	480.5	398.4	386.0	378.1	370.2	359.0
15°	779.8	782.1	766.3	730.3	668.4	580.7	478.3	464.8	453.5	438.9	425.4
17.5°	874.4	869.9	853.0	830.5	772.0	683.1	563.8	545.8	527.8	519.9	500.8
20°	950.9	948.6	935.1	913.8	868.7	783.2	653.8	639.2	618.9	605.4	584.0
22.5°	1011.7	1011.7	1003.8	991.4	947.5	878.9	749.5	733.7	713.5	696.6	672.9
25°	1060.1	1058.9	1060.1	1054.4	1025.2	962.1	847.4	829.4	812.5	792.2	769.7
27.5°	1115.2	1117.4	1115.2	1111.8	1099.4	1048.8	946.4	934.0	914.9	893.5	871.0
30°	1200.7	1194.0	1192.8	1190.6	1176.0	1144.5	1048.8	1034.2	1019.5	1004.9	989.2
32.5°	1290.7	1279.5	1276.1	1276.1	1266.0	1237.9	1167.0	1159.1	1137.7	1126.4	1112.9
35°	1393.1	1388.6	1384.1	1385.3	1380.8	1351.5	1293.0	1295.2	1288.5	1266.0	1252.5
37.5°	1542.8	1543.9	1536.1	1521.4	1521.4	1495.6	1461.8	1457.3	1440.4	1434.8	1426.9
40°	1756.6	1751.0	1744.2	1722.9	1715.0	1671.1	1639.6	1628.3	1614.8	1613.7	1604.7
42.5°	2004.2	1997.4	1997.4	1981.7	1965.9	1913.0	1853.4	1845.5	1830.9	1835.4	1832.0
45°	2233.8	2239.4	2247.3	2258.5	2260.8	2238.3	2151.6	2141.5	2133.6	2129.1	2125.7
47.5°	2431.8	2441.9	2467.8	2516.2	2578.1	2586.0	2517.3	2490.3	2484.7	2476.8	2470.1
50°	2573.6	2588.2	2646.8	2741.3	2861.7	2936.0	2898.8	2876.3	2875.2	2853.8	2851.6
52.5°	2654.6	2670.4	2766.0	2909.0	3095.8	3240.9	3287.1	3285.9	3283.7	3264.6	3256.7
55°	2672.6	2689.5	2804.3	2999.0	3265.7	3516.6	3693.3	3697.8	3707.9	3702.3	3702.3
57.5°	2623.1	2644.5	2769.4	3010.2	3354.6	3734.9	4120.9	4146.8	4159.2	4203.1	4253.7
60°	2532.0	2547.7	2672.6	2941.6	3370.3	3934.1	4676.8	4759.0	4823.1	4909.8	4991.9
62.5°	2363.2	2394.7	2514.0	2806.6	3323.1	4163.7	5340.8	5492.7	5617.6	5749.3	5907.9
65°	2158.4	2171.9	2273.1	2528.6	3111.5	4251.5	5707.6	5856.2	6016.0	6156.6	6298.4
67.5°	1901.8	1913.0	2000.8	2110.0	2568.0	3840.7	5346.4	5510.7	5654.7	5770.6	5956.3
70°	1245.7	1270.5	1485.4	1593.5	1794.9	2839.2	4371.9	4530.5	4640.8	4719.6	4934.5
72.5°	912.6	928.4	1015.0	1237.9	1287.4	1677.9	3076.6	3248.8	3289.3	3437.9	3538.0
75°	557.0	596.4	792.2	1060.1	1254.7	1149.0	1843.3	1926.5	2020.0	2128.0	2223.6
77.5°	112.5	128.3	258.8	730.3	1103.9	1227.7	1100.6	1116.3	1162.5	1172.6	1208.6
80°	18.0	19.1	33.8	315.1	639.2	992.5	1100.6	1085.9	1060.1	1042.0	1024.0
82.5°	7.9	9.0	14.6	79.9	136.2	330.8	952.0	1026.3	1111.8	1159.1	1171.5
85°	3.4	3.4	5.6	15.8	20.3	22.5	160.9	212.7	379.2	504.1	580.7
87.5°	2.3	2.3	3.4	3.4	4.5	5.6	7.9	7.9	9.0	10.1	14.6
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: P155258
 CATALOG NUMBER: AVM-E04-LED-E-U-T3-HSS-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0
2.5°	175.6	174.4	174.4	171.0	171.0	169.9	169.9	168.8	168.8	166.5	167.7
5°	204.8	202.6	200.3	196.9	195.8	193.6	191.3	187.9	186.8	184.6	183.4
7.5°	244.2	241.9	237.4	230.7	226.2	221.7	217.2	212.7	209.3	205.9	203.7
10°	292.6	285.8	283.6	270.1	264.5	255.4	249.8	245.3	238.6	232.9	229.6
12.5°	351.1	345.5	334.2	316.2	307.2	299.3	289.2	280.2	273.5	263.3	256.6
15°	411.9	407.4	391.6	371.4	360.1	345.5	335.3	326.3	311.7	305.0	292.6
17.5°	488.4	474.9	459.1	429.9	415.2	402.9	384.9	371.4	362.4	342.1	330.8
20°	567.2	552.5	532.3	499.6	479.4	460.3	445.6	427.6	408.5	395.0	375.9
22.5°	657.2	633.6	617.8	577.3	553.7	533.4	508.6	489.5	470.4	449.0	427.6
25°	752.8	729.2	710.1	663.9	639.2	618.9	589.7	562.7	539.0	515.4	490.6
27.5°	853.0	831.6	810.2	763.0	741.6	713.5	686.4	654.9	624.6	603.2	569.4
30°	968.9	950.9	927.3	876.6	853.0	823.7	795.6	758.5	729.2	699.9	667.3
32.5°	1093.8	1079.2	1054.4	1009.4	981.3	956.5	926.1	890.1	848.5	818.1	779.8
35°	1245.7	1221.0	1206.3	1163.6	1142.2	1115.2	1083.7	1052.2	1008.3	965.5	932.9
37.5°	1419.0	1407.8	1388.6	1348.1	1332.4	1304.2	1284.0	1252.5	1218.7	1164.7	1129.8
40°	1596.8	1589.0	1572.1	1531.6	1515.8	1496.7	1473.0	1442.7	1402.2	1374.0	1322.3
42.5°	1823.0	1810.6	1797.1	1758.9	1728.5	1704.9	1694.7	1668.9	1626.1	1590.1	1549.6
45°	2110.0	2104.4	2086.3	2048.1	2017.7	2001.9	1986.2	1942.3	1914.2	1878.2	1850.0
47.5°	2456.6	2438.6	2429.6	2386.8	2376.7	2364.3	2323.8	2299.0	2258.5	2230.4	2195.5
50°	2831.3	2812.2	2813.3	2761.5	2763.8	2754.8	2724.4	2695.1	2660.3	2635.5	2614.1
52.5°	3234.2	3243.2	3220.7	3236.4	3218.4	3198.2	3192.5	3156.5	3126.1	3125.0	3095.8
55°	3729.3	3714.7	3720.3	3736.1	3711.3	3733.8	3722.6	3676.4	3677.5	3686.6	3652.8
57.5°	4261.6	4283.0	4329.1	4339.2	4382.0	4352.7	4429.3	4374.1	4407.9	4407.9	4385.4
60°	5042.6	5128.1	5239.5	5326.1	5406.0	5380.2	5480.3	5417.3	5462.3	5424.0	5404.9
62.5°	5983.3	6097.0	6228.7	6369.3	6450.3	6470.6	6456.0	6484.1	6440.2	6412.1	6338.9
65°	6435.7	6548.2	6663.0	6831.8	6854.3	6871.2	6864.5	6817.2	6763.2	6683.3	6587.6
67.5°	6059.9	6217.4	6281.5	6476.2	6541.5	6517.9	6525.7	6465.0	6380.6	6301.8	6161.1
70°	5024.6	5204.6	5238.4	5517.5	5595.1	5707.6	5667.1	5649.1	5556.8	5490.4	5335.1
72.5°	3658.4	3799.1	3787.8	4101.8	4088.3	4134.4	4243.6	4239.1	4142.3	4120.9	3990.4
75°	2251.8	2336.2	2331.7	2554.5	2461.1	2447.6	2478.0	2464.5	2373.3	2278.8	2197.8
77.5°	1192.8	1231.1	1190.6	1124.2	1117.4	1042.0	1020.7	1019.5	949.8	864.2	801.2
80°	1004.9	965.5	918.3	821.5	765.2	714.6	667.3	623.4	576.2	513.1	436.6
82.5°	1173.7	1154.6	1120.8	999.3	940.8	839.5	764.1	693.2	606.5	541.3	443.4
85°	571.7	570.5	597.5	585.2	563.8	559.3	485.0	469.3	434.4	398.4	333.1
87.5°	15.8	11.3	13.5	11.3	13.5	14.6	10.1	23.6	14.6	13.5	15.8
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: P155258
 CATALOG NUMBER: AVM-E04-LED-E-U-T3-HSS-8030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0
2.5°	166.5	165.4	164.3	164.3	163.2	163.2	162.0	160.9	160.9	159.8	159.8
5°	181.2	178.9	177.8	176.7	174.4	173.3	171.0	169.9	167.7	166.5	164.3
7.5°	199.2	196.9	192.4	190.2	186.8	185.7	180.1	177.8	175.6	173.3	169.9
10°	221.7	216.1	211.6	207.1	201.4	196.9	192.4	189.1	184.6	178.9	176.7
12.5°	249.8	241.9	235.2	227.3	220.6	213.8	205.9	200.3	193.6	187.9	182.3
15°	281.3	270.1	261.1	249.8	238.6	230.7	222.8	214.9	205.9	198.1	191.3
17.5°	317.3	302.7	290.3	276.8	264.5	253.2	239.7	229.6	219.4	208.2	199.2
20°	355.6	341.0	324.1	309.5	291.5	279.1	262.2	248.7	234.1	222.8	210.4
22.5°	406.2	387.1	365.7	345.5	326.3	307.2	289.2	272.3	254.3	237.4	225.1
25°	465.9	442.3	415.2	395.0	368.0	346.6	324.1	302.7	283.6	262.2	241.9
27.5°	540.2	508.6	479.4	451.3	422.0	395.0	365.7	341.0	315.1	290.3	267.8
30°	626.8	596.4	552.5	521.0	491.8	454.6	425.4	392.7	363.5	327.5	302.7
32.5°	741.6	702.2	656.1	614.4	576.2	534.5	494.0	452.4	414.1	381.5	344.3
35°	891.3	845.1	790.0	737.1	694.3	643.7	591.9	544.7	500.8	453.5	407.4
37.5°	1080.3	1037.5	977.9	913.8	856.4	795.6	741.6	675.2	616.7	559.3	500.8
40°	1268.2	1228.9	1167.0	1098.3	1024.0	954.3	885.6	810.2	736.0	663.9	603.2
42.5°	1500.1	1441.5	1375.1	1297.5	1225.5	1142.2	1056.7	970.0	881.1	794.5	707.8
45°	1791.5	1746.5	1653.1	1569.8	1484.3	1386.4	1280.6	1181.6	1067.9	965.5	850.7
47.5°	2146.0	2065.0	1996.3	1919.8	1812.9	1718.4	1583.3	1466.3	1324.5	1188.3	1051.1
50°	2564.6	2519.6	2428.4	2332.8	2216.9	2104.4	1972.7	1803.9	1634.0	1488.8	1300.9
52.5°	3054.1	2990.0	2932.6	2833.6	2715.4	2571.4	2421.7	2238.3	2030.1	1825.3	1625.0
55°	3634.8	3589.8	3534.6	3455.9	3305.1	3141.9	2961.8	2742.4	2496.0	2220.3	1987.3
57.5°	4384.3	4337.0	4284.1	4122.1	4019.6	3819.3	3558.3	3331.0	3065.4	2712.0	2422.8
60°	5407.2	5343.0	5268.8	5137.1	4923.3	4663.3	4383.1	4046.7	3721.4	3335.5	2956.2
62.5°	6281.5	6179.1	6020.5	5850.5	5594.0	5295.8	4943.5	4547.4	4177.2	3742.8	3320.8
65°	6461.6	6320.9	6134.1	5912.4	5648.0	5311.5	4943.5	4564.3	4128.8	3720.3	3296.1
67.5°	5993.5	5830.3	5639.0	5391.4	5139.3	4792.7	4475.4	4089.4	3679.8	3326.4	2947.2
70°	5223.7	4981.8	4786.0	4522.7	4267.2	3994.9	3660.7	3371.5	3038.4	2713.1	2422.8
72.5°	3922.9	3684.3	3506.5	3296.1	3144.1	2856.1	2610.7	2394.7	2197.8	1954.7	1739.7
75°	2114.5	1935.6	1816.3	1720.6	1584.5	1394.3	1277.2	1128.7	1045.4	944.1	846.2
77.5°	689.8	607.7	518.8	432.1	371.4	279.1	270.1	214.9	202.6	196.9	151.9
80°	353.4	272.3	196.9	141.8	108.0	95.7	91.2	86.6	82.1	78.8	73.1
82.5°	354.5	256.6	176.7	122.7	88.9	74.3	69.8	67.5	64.1	60.8	56.3
85°	258.8	191.3	131.7	90.0	61.9	49.5	47.3	43.9	41.6	40.5	36.0
87.5°	16.9	12.4	11.3	10.1	10.1	10.1	11.3	10.1	11.3	11.3	10.1
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: P155258
 CATALOG NUMBER: AVM-E04-LED-E-U-T3-HSS-8030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0	153.0
2.5°	158.7	157.5	157.5	156.4	155.3	155.3	154.2	154.2	150.8	145.2	140.7
5°	163.2	160.9	159.8	158.7	157.5	155.3	154.2	153.0	147.4	136.2	127.2
7.5°	166.5	164.3	163.2	160.9	157.5	156.4	154.2	151.9	142.9	127.2	117.0
10°	172.2	168.8	165.4	162.0	158.7	156.4	153.0	150.8	137.3	119.3	109.2
12.5°	177.8	173.3	168.8	163.2	159.8	156.4	153.0	148.5	132.8	112.5	101.3
15°	184.6	177.8	172.2	166.5	160.9	156.4	150.8	147.4	128.3	106.9	96.8
17.5°	191.3	183.4	175.6	167.7	162.0	155.3	150.8	145.2	123.8	102.4	91.2
20°	199.2	187.9	180.1	171.0	163.2	155.3	148.5	142.9	119.3	96.8	85.5
22.5°	210.4	196.9	184.6	174.4	164.3	156.4	148.5	140.7	114.8	92.3	81.0
25°	225.1	208.2	193.6	181.2	168.8	158.7	149.7	141.8	111.4	88.9	75.4
27.5°	246.4	225.1	209.3	192.4	176.7	164.3	153.0	144.0	109.2	85.5	72.0
30°	272.3	250.9	226.2	205.9	189.1	172.2	159.8	146.3	106.9	82.1	67.5
32.5°	310.6	280.2	250.9	226.2	202.6	183.4	165.4	151.9	105.8	76.5	63.0
35°	365.7	324.1	289.2	256.6	223.9	200.3	178.9	160.9	104.7	72.0	58.5
37.5°	444.5	395.0	350.0	303.8	263.3	229.6	200.3	176.7	104.7	68.6	54.0
40°	528.9	464.8	407.4	350.0	298.2	255.4	216.1	186.8	102.4	64.1	49.5
42.5°	624.6	545.8	467.0	396.1	332.0	276.8	230.7	194.7	96.8	59.6	45.0
45°	752.8	649.3	554.8	463.6	380.4	308.3	249.8	203.7	91.2	56.3	40.5
47.5°	913.8	793.4	670.7	555.9	446.8	355.6	278.0	218.3	87.8	51.8	37.1
50°	1153.5	982.4	820.4	674.1	535.7	416.4	319.6	239.7	84.4	48.4	33.8
52.5°	1416.8	1206.3	1016.2	828.2	656.1	498.5	368.0	267.8	81.0	45.0	30.4
55°	1737.5	1478.7	1246.9	1002.7	782.1	594.2	427.6	299.3	76.5	41.6	28.1
57.5°	2133.6	1806.1	1531.6	1233.4	956.5	718.0	507.5	352.2	72.0	37.1	24.8
60°	2575.9	2205.6	1860.2	1510.2	1174.8	882.3	625.7	427.6	67.5	32.6	21.4
62.5°	2894.3	2488.1	2093.1	1700.4	1332.4	1004.9	721.3	486.1	60.8	28.1	19.1
65°	2891.0	2479.1	2081.8	1694.7	1336.9	1009.4	724.7	497.4	54.0	24.8	16.9
67.5°	2575.9	2229.3	1874.8	1527.1	1214.2	918.3	670.7	461.4	46.1	22.5	14.6
70°	2119.0	1843.3	1563.1	1287.4	1036.4	786.6	579.5	401.7	39.4	20.3	12.4
72.5°	1547.3	1345.9	1174.8	980.2	809.1	621.2	462.5	315.1	31.5	16.9	11.3
75°	768.6	687.6	589.7	528.9	451.3	369.1	287.0	183.4	25.9	13.5	10.1
77.5°	146.3	130.5	124.9	108.0	99.0	87.8	77.6	55.1	20.3	10.1	9.0
80°	67.5	61.9	56.3	50.6	45.0	38.3	33.8	29.3	15.8	7.9	10.1
82.5°	52.9	48.4	42.8	38.3	33.8	29.3	24.8	21.4	10.1	6.8	10.1
85°	34.9	30.4	27.0	23.6	20.3	18.0	15.8	13.5	6.8	6.8	6.8
87.5°	10.1	10.1	9.0	9.0	7.9	7.9	6.8	6.8	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



REPORT NUMBER: P155258

CATALOG NUMBER: AVM-E04-LED-E-U-T3-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	153.0	153.0	153.0	153.0	153.0	153.0	153.0
2.5°	136.2	130.5	128.3	127.2	127.2	128.3	127.2
5°	120.4	114.8	112.5	110.3	110.3	110.3	111.4
7.5°	110.3	104.7	101.3	100.2	99.0	100.2	100.2
10°	101.3	96.8	92.3	90.0	90.0	90.0	90.0
12.5°	94.5	88.9	84.4	83.3	82.1	82.1	82.1
15°	88.9	82.1	78.8	76.5	75.4	75.4	76.5
17.5°	82.1	76.5	72.0	70.9	70.9	70.9	70.9
20°	77.6	70.9	67.5	65.3	65.3	65.3	65.3
22.5°	72.0	66.4	61.9	59.6	59.6	59.6	59.6
25°	67.5	61.9	57.4	55.1	55.1	55.1	55.1
27.5°	63.0	57.4	52.9	50.6	50.6	50.6	50.6
30°	58.5	52.9	48.4	46.1	46.1	46.1	46.1
32.5°	55.1	48.4	43.9	41.6	41.6	42.8	41.6
35°	49.5	43.9	39.4	37.1	37.1	37.1	37.1
37.5°	45.0	39.4	34.9	32.6	32.6	32.6	31.5
40°	41.6	34.9	30.4	28.1	27.0	27.0	27.0
42.5°	36.0	29.3	25.9	23.6	22.5	22.5	22.5
45°	32.6	25.9	21.4	19.1	19.1	19.1	19.1
47.5°	29.3	22.5	18.0	15.8	15.8	16.9	16.9
50°	25.9	19.1	14.6	14.6	14.6	15.8	15.8
52.5°	22.5	16.9	13.5	13.5	14.6	15.8	15.8
55°	20.3	14.6	12.4	13.5	14.6	15.8	15.8
57.5°	18.0	12.4	12.4	13.5	14.6	15.8	15.8
60°	15.8	11.3	11.3	12.4	14.6	15.8	15.8
62.5°	13.5	11.3	11.3	12.4	14.6	15.8	15.8
65°	12.4	11.3	11.3	12.4	14.6	15.8	15.8
67.5°	11.3	10.1	11.3	12.4	13.5	14.6	14.6
70°	10.1	10.1	11.3	12.4	13.5	14.6	14.6
72.5°	10.1	10.1	10.1	11.3	12.4	13.5	13.5
75°	10.1	10.1	10.1	11.3	12.4	13.5	13.5
77.5°	10.1	9.0	9.0	10.1	12.4	13.5	13.5
80°	10.1	9.0	9.0	10.1	11.3	13.5	13.5
82.5°	7.9	7.9	9.0	10.1	11.3	12.4	12.4
85°	6.8	7.9	7.9	9.0	10.1	12.4	12.4
87.5°	5.6	5.6	6.8	7.9	9.0	10.1	10.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)