

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: P154198

Luminaire Tested: **AVM-E02-LED-E-U-T2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P154198
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-E02-LED-E-U-T2-HSS-8030
Description: VISION SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 2 AREA W/ HOUSE SIDE SHIELD
Light Source: (42) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2703 lumens
Efficiency: N/A
Efficacy: 51.9 lumens/watt
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')
IES Classification: Type II - Short - Non-Cutoff
BUG Rating: B0 - U0 - G1

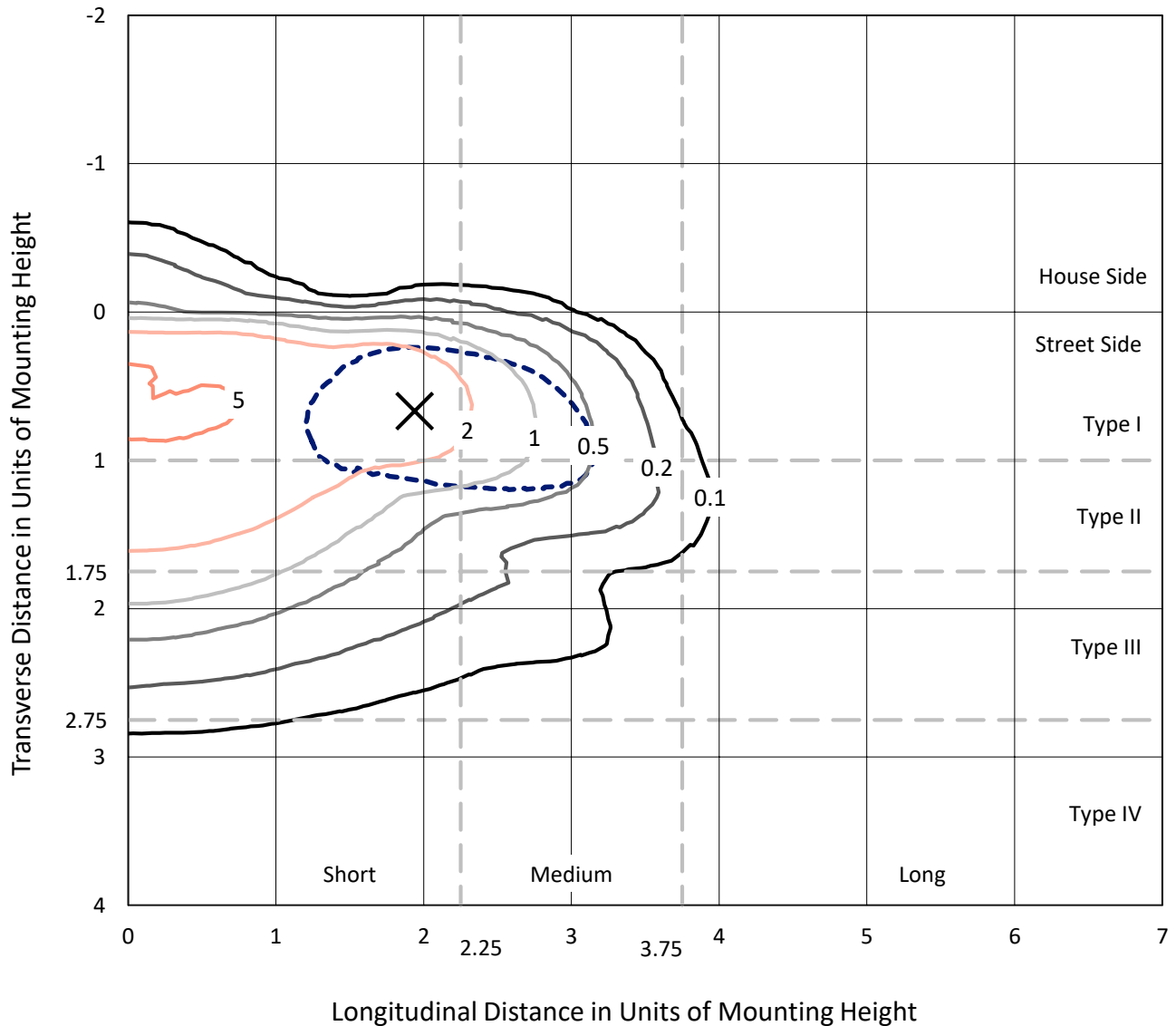
Input Watts (W): 52.1
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P154198
 CATALOG NUMBER: AVM-E02-LED-E-U-T2-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

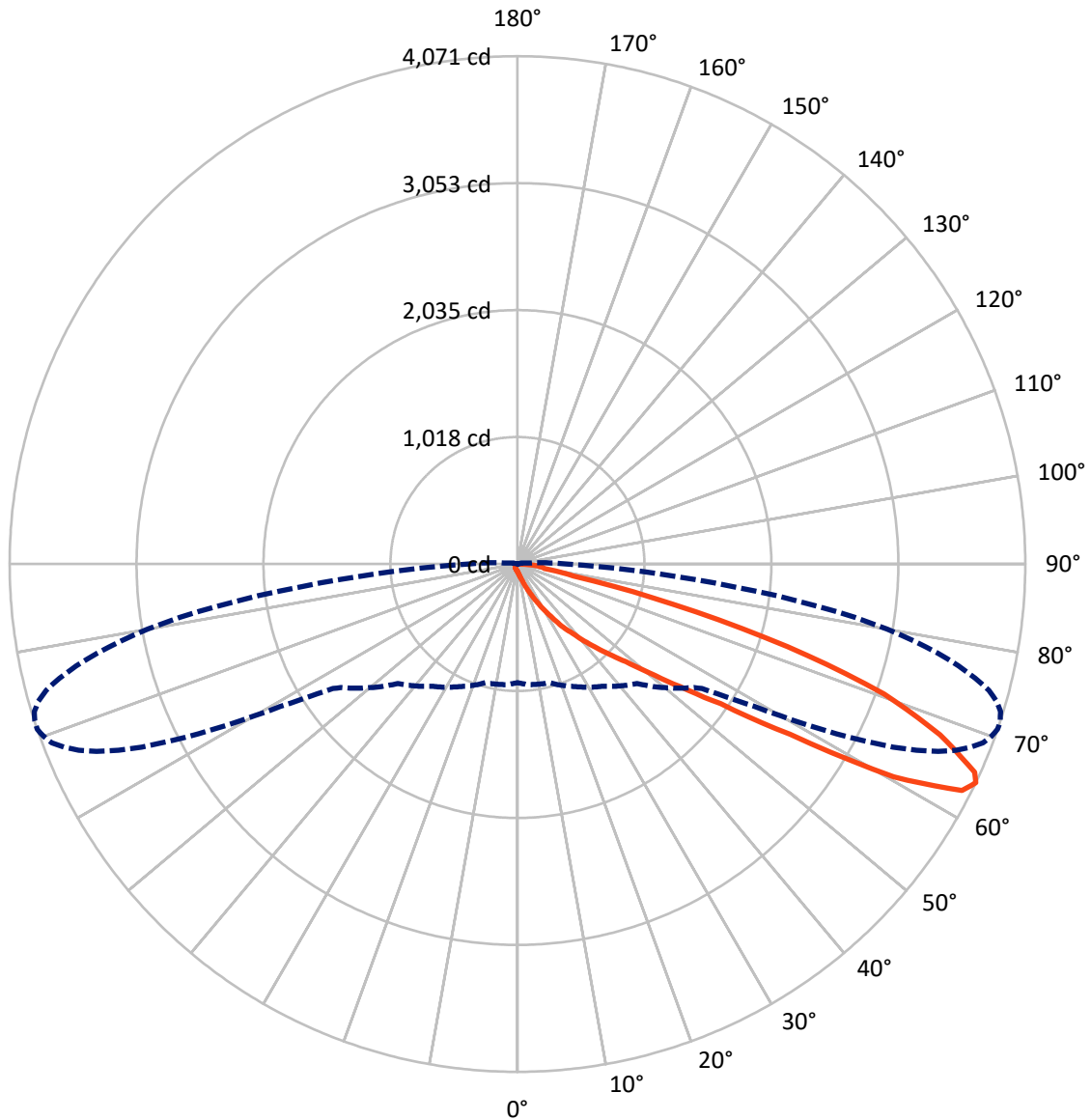
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.3 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P154198
CATALOG NUMBER: AVM-E02-LED-E-U-T2-HSS-8030

Luminous Intensity Polar Plot



— Vertical Plane Through 71-Deg Lateral - - - Horizontal Cone Through 64-Deg Vertical

REPORT NUMBER: P154198

CATALOG NUMBER: AVM-E02-LED-E-U-T2-HSS-8030

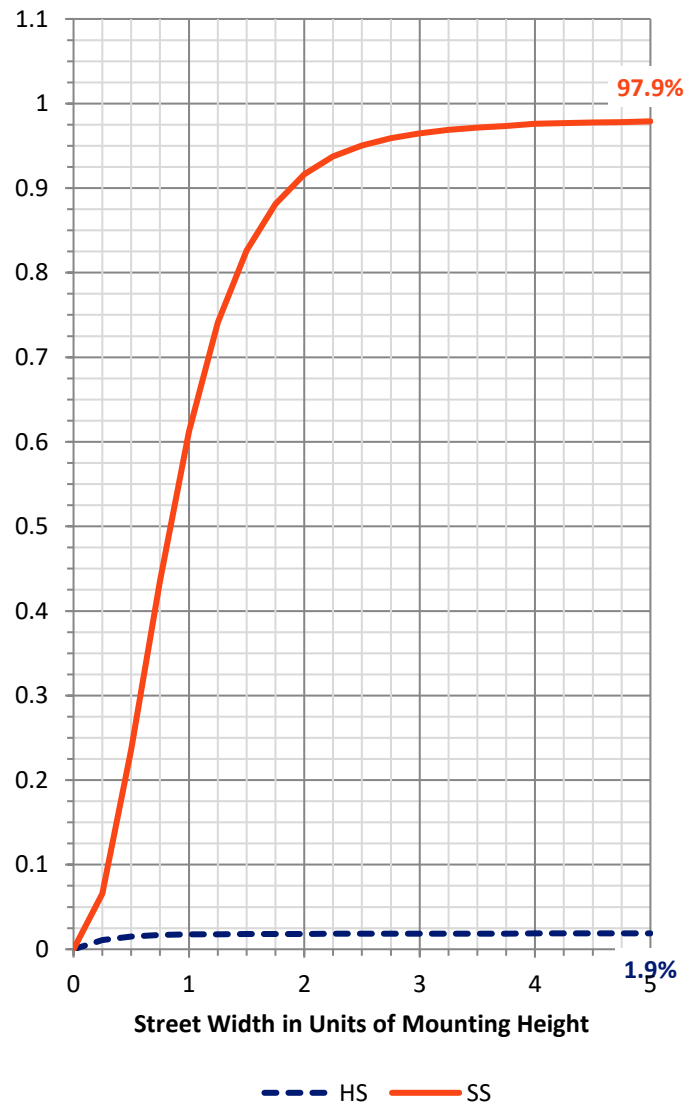
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	51.8	0.0	51.8
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	2651.2	0.0	2651.2
	% Fixture	98.1	0.0	98.1
Total	Lumens	2703.0	0.0	2703.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.3	0.3
10°-20°	48.9	1.8
20°-30°	124.8	4.6
30°-40°	252.5	9.3
40°-50°	461.5	17.1
50°-60°	719.0	26.6
60°-70°	799.2	29.6
70°-80°	260.7	9.6
80°-90°	28.1	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°	2703.0	100.0
0°-180°	2703.0	100.0



REPORT NUMBER: P154198

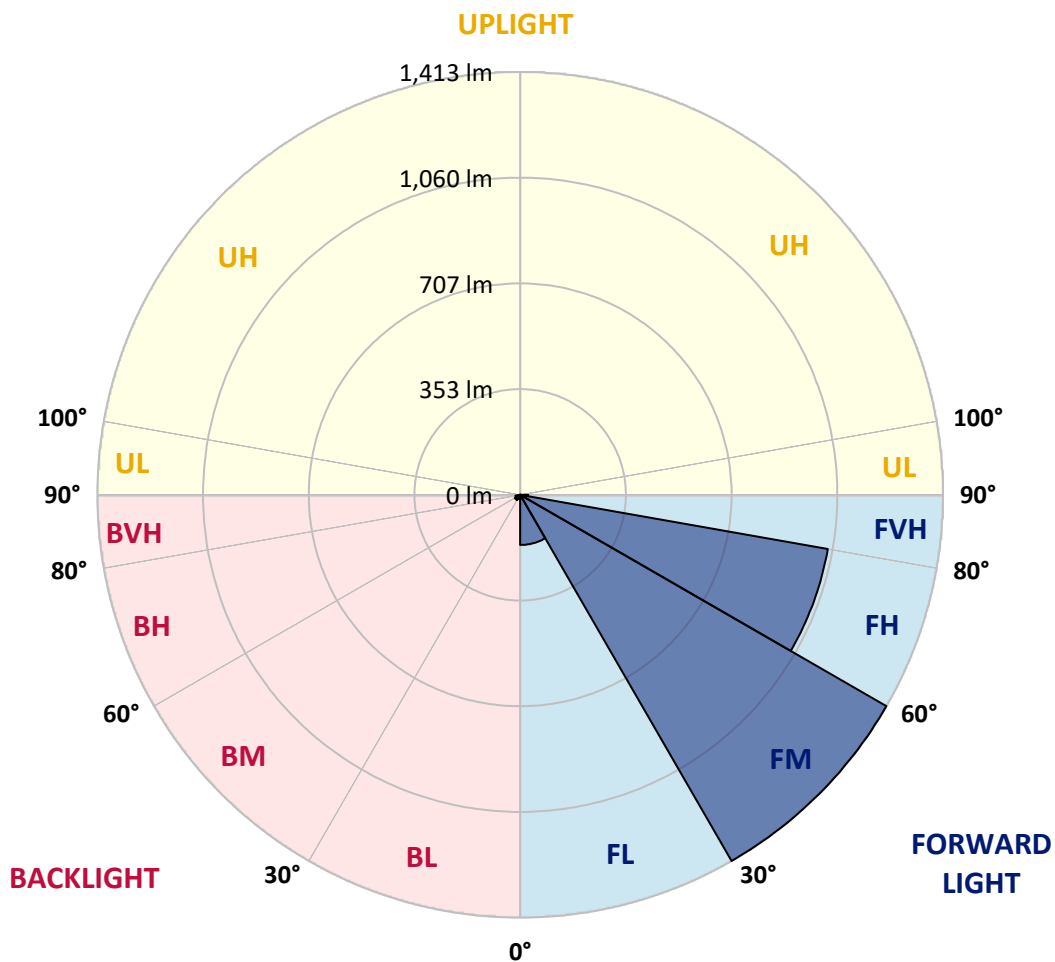
CATALOG NUMBER: AVM-E02-LED-E-U-T2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	167.6	6.2			
FM	(30°-60°)	1413.0	52.3			
FH	(60°-80°)	1043.9	38.6			G1/1800
FVH	(80°-90°)	26.7	1.0			G1/100
BL	(0°-30°)	14.4	0.5	B0/110		
BM	(30°-60°)	20.0	0.7	B0/220		
BH	(60°-80°)	16.0	0.6	B0/110		G0/110
BVH	(80°-90°)	1.4	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-G1

Type II Short





REPORT NUMBER: P154198
 CATALOG NUMBER: AVM-E02-LED-E-U-T2-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
2.5°	81.0	79.9	79.9	78.2	76.0	73.7	71.5	70.9	70.3	69.8	69.8
5°	127.2	122.7	121.0	114.8	106.9	97.3	88.9	86.6	86.6	85.0	83.8
7.5°	199.7	197.5	185.7	179.5	160.9	137.9	113.7	111.4	110.8	108.6	105.2
10°	292.6	288.1	279.6	261.6	227.9	187.9	153.6	148.0	144.0	139.5	135.0
12.5°	385.4	379.8	367.4	338.2	304.4	253.2	198.1	193.0	186.8	180.6	173.3
15°	478.3	474.3	455.2	425.9	382.0	320.7	250.9	241.9	236.9	224.5	218.9
17.5°	558.7	553.7	538.5	505.3	459.7	392.2	309.5	298.2	289.8	282.5	269.0
20°	628.5	623.4	608.8	581.2	530.0	463.6	372.5	366.9	351.7	340.4	332.5
22.5°	671.3	669.6	660.0	633.6	588.0	528.9	444.5	435.5	425.4	410.2	401.2
25°	697.7	696.0	690.4	671.8	640.9	597.5	523.8	512.6	503.6	490.1	478.8
27.5°	725.3	724.1	719.6	703.3	687.0	660.0	604.3	598.1	578.4	570.5	559.8
30°	770.8	765.8	769.7	761.8	741.0	724.1	685.3	676.3	667.9	654.4	644.8
32.5°	843.4	835.0	843.4	835.0	826.0	805.7	768.6	765.8	757.3	748.9	735.4
35°	932.3	929.0	935.7	943.0	935.7	908.7	863.7	855.2	851.9	838.4	833.3
37.5°	1021.8	1028.0	1040.4	1056.7	1052.2	1032.5	968.9	961.0	954.8	943.0	934.0
40°	1118.0	1118.6	1145.0	1168.6	1180.5	1168.6	1084.8	1078.6	1070.2	1053.3	1051.1
42.5°	1222.7	1218.2	1237.9	1264.3	1288.5	1304.8	1237.9	1226.0	1214.2	1195.1	1182.1
45°	1315.5	1315.5	1331.3	1356.0	1393.1	1434.2	1399.3	1387.0	1375.7	1360.0	1345.3
47.5°	1384.1	1384.7	1394.3	1430.3	1488.2	1549.6	1550.7	1552.9	1544.5	1525.9	1526.5
50°	1432.5	1426.3	1439.3	1474.2	1541.1	1637.3	1706.5	1710.5	1717.2	1702.0	1706.5
52.5°	1468.0	1465.2	1473.6	1502.9	1569.8	1687.4	1834.3	1851.2	1861.3	1863.5	1882.1
55°	1449.4	1451.1	1471.4	1513.6	1585.6	1720.6	1942.9	1970.4	1994.1	2014.3	2037.4
57.5°	1388.1	1393.1	1428.6	1494.4	1589.0	1747.6	2058.2	2100.4	2144.9	2198.9	2244.5
60°	1290.2	1302.0	1349.8	1442.1	1556.3	1712.2	2092.5	2157.2	2225.3	2307.5	2399.2
62.5°	1146.7	1149.0	1180.5	1269.9	1396.0	1523.7	1935.0	2017.7	2107.7	2226.4	2354.7
64°	950.3	970.6	985.2	1083.7	1196.2	1355.4	1726.8	1784.2	1909.7	2055.4	2216.9
65°	784.3	808.5	820.4	918.8	1047.7	1199.6	1545.6	1607.0	1739.2	1887.2	2088.6
67.5°	462.5	446.2	480.5	538.5	646.5	826.5	1042.6	1089.3	1187.8	1363.9	1524.8
70°	298.2	298.2	329.7	388.8	489.0	626.8	716.3	696.6	717.4	785.5	899.1
72.5°	191.3	201.4	220.6	270.6	363.5	525.5	732.0	639.2	590.8	568.3	567.2
75°	87.2	92.8	113.7	143.5	194.1	342.7	738.2	697.7	653.2	610.5	577.3
77.5°	18.6	21.4	36.0	74.3	94.5	158.1	523.8	584.6	633.0	647.1	647.1
80°	9.6	10.1	15.2	34.9	40.5	53.5	202.0	265.6	327.5	409.1	494.6
82.5°	3.9	4.5	9.0	15.8	16.9	16.3	53.5	67.5	92.8	135.0	201.4
85°	1.1	1.1	3.9	6.2	9.0	7.3	11.8	13.5	17.4	25.3	48.4
87.5°	0.0	0.0	0.6	1.1	1.7	2.8	3.4	3.4	3.4	3.4	3.4
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: P154198
 CATALOG NUMBER: AVM-E02-LED-E-U-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
2.5°	69.2	69.2	68.6	68.1	68.1	67.0	67.0	66.4	66.4	65.8	65.8
5°	83.3	82.1	81.0	79.3	78.8	77.6	76.5	75.4	74.3	73.7	72.6
7.5°	103.5	102.4	99.0	96.8	94.0	92.3	90.0	88.3	86.6	85.5	83.3
10°	130.5	126.6	124.9	117.0	115.3	111.4	108.0	105.8	101.3	98.5	95.7
12.5°	168.8	161.5	158.7	145.2	141.2	135.6	131.7	126.0	121.0	117.6	112.5
15°	212.1	206.5	195.8	182.3	175.0	168.8	159.2	154.7	148.0	140.7	133.4
17.5°	263.9	253.8	241.9	224.5	215.5	205.9	196.9	187.4	176.1	169.4	161.5
20°	324.1	313.4	298.8	276.8	266.1	256.6	240.8	234.1	220.6	207.1	196.9
22.5°	389.9	379.2	365.2	340.4	326.3	310.6	297.6	285.8	270.1	256.6	244.8
25°	464.2	451.8	441.1	412.4	395.0	378.7	364.6	343.8	330.3	314.5	298.2
27.5°	548.6	534.0	519.9	488.4	472.1	454.1	437.2	415.2	402.3	376.4	361.2
30°	635.2	617.2	602.6	570.5	555.9	537.3	514.3	494.6	472.6	455.2	430.4
32.5°	726.4	711.8	699.9	666.2	647.6	624.6	603.7	582.9	563.8	535.7	513.1
35°	823.7	810.8	797.9	768.6	752.3	734.8	711.2	685.9	659.4	630.2	609.9
37.5°	926.1	916.0	905.9	870.4	851.3	832.7	805.7	780.4	756.8	725.8	691.5
40°	1033.6	1024.0	1007.7	978.5	958.2	941.3	916.6	892.9	860.9	826.5	796.2
42.5°	1168.6	1147.8	1133.8	1101.7	1080.3	1061.7	1039.8	1004.3	977.3	936.3	907.0
45°	1326.8	1307.1	1284.0	1251.4	1224.9	1194.5	1163.6	1139.4	1105.6	1068.5	1030.8
47.5°	1504.6	1488.8	1461.8	1429.7	1403.3	1372.9	1336.3	1305.4	1264.3	1221.0	1169.8
50°	1700.4	1684.0	1666.0	1630.0	1603.6	1574.9	1546.2	1509.6	1472.5	1420.7	1367.8
52.5°	1882.1	1885.5	1874.8	1857.9	1845.0	1815.1	1788.7	1753.8	1721.2	1673.9	1632.8
55°	2061.6	2090.8	2102.1	2118.4	2124.0	2099.8	2099.3	2048.1	2028.4	2000.8	1977.2
57.5°	2298.5	2363.2	2414.4	2513.4	2555.0	2597.2	2605.1	2569.1	2606.2	2558.4	2574.7
60°	2499.9	2618.6	2745.8	3001.8	3130.1	3226.9	3304.5	3361.9	3399.0	3462.1	3465.4
62.5°	2517.9	2704.7	2898.3	3271.9	3447.4	3594.3	3734.4	3832.3	3909.9	3981.4	3998.8
64°	2431.8	2663.1	2898.3	3350.1	3529.6	3692.7	3820.5	3917.8	3997.1	4041.6	4070.8
65°	2275.4	2534.2	2804.9	3298.3	3483.4	3656.7	3778.8	3876.7	3951.6	3996.0	4026.4
67.5°	1685.7	1936.1	2207.9	2782.4	3073.8	3232.5	3388.9	3526.2	3586.4	3642.7	3653.4
70°	1027.4	1209.2	1396.5	1929.4	2200.0	2485.3	2661.4	2862.3	3002.9	3089.6	3118.3
72.5°	620.1	683.1	795.0	1081.4	1340.8	1541.1	1784.8	1976.6	2134.2	2221.4	2265.3
75°	552.0	544.1	558.7	678.0	770.3	890.7	979.0	1099.4	1196.8	1227.2	1284.0
77.5°	638.1	615.6	592.5	570.0	565.5	554.2	536.2	540.7	498.0	456.9	458.0
80°	568.3	622.3	654.4	630.7	577.3	523.3	456.9	374.2	292.6	241.9	220.6
82.5°	285.3	405.7	521.6	636.4	628.5	580.7	507.5	416.9	323.0	248.1	198.1
85°	87.8	155.9	219.4	305.0	353.9	347.2	305.0	296.5	211.6	164.9	127.2
87.5°	3.9	3.9	3.9	3.4	3.9	3.9	3.9	4.5	4.5	5.1	5.1
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: P154198
 CATALOG NUMBER: AVM-E02-LED-E-U-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
2.5°	65.8	65.3	64.7	64.1	64.1	64.1	63.6	63.6	63.0	63.0	62.5
5°	72.6	71.5	70.9	69.8	69.8	68.6	68.1	67.5	66.4	65.8	65.3
7.5°	81.6	80.5	78.8	77.1	76.5	74.8	73.1	72.0	70.9	69.8	68.6
10°	93.4	91.2	87.8	85.5	83.8	81.6	79.3	77.6	75.4	73.1	72.0
12.5°	108.6	104.1	100.7	96.8	93.4	90.0	86.1	83.8	81.6	78.2	76.0
15°	126.0	121.5	117.6	110.8	105.2	100.7	97.3	92.3	88.3	83.8	80.5
17.5°	155.9	144.0	136.2	129.4	123.8	115.3	108.6	103.0	97.9	92.3	88.3
20°	185.1	175.0	164.3	156.4	144.0	136.7	127.7	119.8	110.8	104.1	97.3
22.5°	227.9	214.9	201.4	189.6	172.7	162.6	150.8	140.7	129.4	118.2	110.8
25°	281.9	262.8	244.8	227.9	212.1	196.9	181.7	165.4	153.6	140.1	127.7
27.5°	338.7	317.3	299.9	278.0	257.7	239.1	220.0	202.6	182.3	164.9	150.2
30°	410.2	380.9	360.7	334.2	314.0	288.1	264.5	241.4	216.6	196.4	175.6
32.5°	482.8	463.1	428.7	406.2	375.9	344.9	320.2	293.7	263.3	236.9	211.6
35°	578.4	544.7	516.0	484.5	451.3	419.2	387.1	349.4	318.5	285.8	254.9
37.5°	662.8	628.5	595.3	554.2	516.5	482.8	443.9	404.6	368.0	329.2	292.0
40°	760.7	718.0	678.6	640.3	593.6	553.7	513.1	464.2	422.0	379.2	335.3
42.5°	867.6	824.3	777.6	733.7	682.5	633.6	583.5	534.5	487.3	435.5	384.3
45°	984.7	939.1	886.8	836.7	781.0	727.0	667.3	611.0	555.3	497.4	438.3
47.5°	1129.8	1071.3	1022.9	960.5	891.3	834.4	761.3	697.1	633.6	566.0	499.6
50°	1317.8	1251.4	1181.6	1112.4	1035.9	963.8	882.8	806.9	721.9	646.5	570.5
52.5°	1567.0	1517.5	1436.5	1357.1	1263.7	1172.0	1060.6	962.1	853.0	756.8	663.9
55°	1920.9	1888.3	1818.0	1731.3	1649.7	1515.8	1387.5	1234.5	1092.7	954.3	823.7
57.5°	2561.8	2526.3	2448.1	2427.3	2301.8	2203.4	2053.1	1855.1	1614.8	1403.3	1192.3
60°	3484.6	3415.3	3338.8	3324.8	3177.3	3073.8	2924.7	2713.7	2487.5	2149.9	1862.4
62.5°	4000.0	3979.1	3917.2	3841.3	3713.6	3560.0	3392.3	3188.0	2958.5	2662.5	2320.4
64°	4069.2	4050.0	3996.6	3911.1	3782.8	3630.3	3444.6	3240.9	3010.8	2740.7	2428.4
65°	4025.8	3998.8	3953.3	3874.5	3755.2	3608.9	3422.1	3215.6	2982.1	2722.2	2431.8
67.5°	3676.4	3664.0	3622.4	3549.3	3474.4	3342.8	3178.5	2993.9	2803.2	2545.5	2307.5
70°	3121.6	3112.6	3059.7	3030.5	2906.7	2823.4	2690.6	2545.5	2376.7	2197.2	1994.6
72.5°	2314.2	2283.8	2241.1	2196.6	2112.8	1998.6	1895.0	1740.3	1653.1	1501.7	1387.5
75°	1227.2	1208.0	1141.6	1048.8	945.3	891.8	784.3	688.1	611.6	577.3	494.6
77.5°	424.2	386.5	349.4	307.8	244.2	192.4	153.6	122.7	96.8	85.5	71.5
80°	211.6	200.9	189.1	165.4	139.0	112.0	87.8	69.2	56.8	48.4	43.3
82.5°	171.6	151.9	135.6	118.7	95.1	78.2	61.9	50.6	41.6	36.6	32.1
85°	101.3	77.6	59.1	53.5	41.6	36.0	30.9	26.4	22.5	21.4	19.7
87.5°	3.9	5.1	5.1	3.9	5.1	4.5	4.5	3.9	3.9	3.9	3.9
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: P154198

CATALOG NUMBER: AVM-E02-LED-E-U-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2	60.2
2.5°	62.5	61.9	61.9	61.3	60.8	60.8	60.8	60.2	59.1	56.8	55.1
5°	64.7	64.1	63.6	62.5	61.9	61.3	60.8	60.8	58.0	54.0	51.2
7.5°	67.5	66.4	65.3	64.1	63.6	62.5	61.3	60.8	56.8	51.8	49.0
10°	70.3	68.6	67.0	66.4	64.7	63.6	61.9	60.8	56.3	50.1	46.1
12.5°	73.7	71.5	69.2	67.5	65.3	64.1	62.5	60.8	55.1	48.4	43.9
15°	77.6	74.3	71.5	69.8	67.5	64.7	62.5	60.8	54.0	46.7	41.6
17.5°	82.7	78.8	75.4	72.0	68.6	65.8	63.6	61.3	52.3	44.5	38.8
20°	90.6	85.5	79.9	76.0	71.5	68.1	64.1	61.3	51.2	42.2	36.6
22.5°	101.3	93.4	87.2	80.5	74.8	70.3	65.8	62.5	49.5	39.9	33.8
25°	116.5	106.3	96.2	87.8	80.5	74.3	68.6	64.1	48.4	38.3	32.1
27.5°	133.4	121.5	108.0	97.9	87.8	78.8	72.6	67.0	48.4	37.1	30.4
30°	157.0	140.1	123.8	110.8	97.3	87.2	78.2	70.9	48.4	36.6	28.7
32.5°	185.7	166.5	145.7	127.2	111.4	96.8	85.5	76.0	49.5	35.4	27.6
35°	225.6	197.5	172.7	149.7	128.8	112.0	97.3	84.4	51.2	34.9	25.9
37.5°	257.1	223.4	191.9	165.4	141.2	120.4	101.8	87.8	49.5	32.6	24.2
40°	294.8	256.6	218.3	185.1	157.5	130.5	109.2	92.3	48.4	29.8	21.9
42.5°	340.4	292.6	248.1	210.4	176.1	144.0	118.7	97.9	48.4	28.1	20.3
45°	383.2	330.8	281.3	234.1	194.1	158.7	127.7	104.1	47.8	26.4	18.0
47.5°	436.1	374.2	316.2	261.6	215.5	172.2	137.3	109.7	47.3	24.8	16.3
50°	498.5	423.1	357.9	292.6	236.3	188.5	148.5	115.9	46.1	23.1	14.6
52.5°	567.7	486.7	403.4	328.0	262.2	205.9	159.2	121.5	44.5	21.4	12.9
55°	690.4	579.0	480.5	387.1	301.6	231.8	175.0	130.0	42.8	19.7	11.3
57.5°	984.7	800.1	660.6	519.9	397.2	297.6	217.7	154.2	40.5	17.4	9.0
60°	1546.2	1241.8	1004.9	788.3	600.9	456.9	320.7	227.9	43.3	14.6	7.9
62.5°	1983.4	1633.4	1331.8	1060.1	823.2	625.7	467.0	340.4	62.5	12.9	6.2
64°	2097.6	1743.1	1421.3	1136.6	890.1	686.4	521.0	384.9	80.5	12.9	5.6
65°	2114.5	1776.9	1453.4	1164.7	913.2	702.8	536.8	399.5	87.8	13.5	5.1
67.5°	2044.7	1757.2	1462.9	1176.5	930.6	725.3	558.2	422.6	99.0	12.9	3.9
70°	1785.9	1574.3	1332.4	1100.6	877.8	689.3	536.8	409.6	103.5	12.4	3.4
72.5°	1215.3	1069.6	926.7	762.4	611.0	503.6	391.6	288.6	72.6	10.1	2.8
75°	405.1	395.0	353.4	267.8	225.1	182.9	146.3	112.5	27.6	6.2	2.8
77.5°	67.5	58.0	50.6	48.4	40.5	39.4	34.3	27.6	11.8	3.9	2.8
80°	39.4	36.0	31.5	28.1	24.8	21.9	18.6	15.8	7.3	2.8	3.4
82.5°	29.3	25.9	23.1	20.3	17.4	15.2	12.9	10.7	3.9	2.8	3.4
85°	16.9	14.6	12.9	11.3	9.0	7.9	6.8	5.6	2.8	2.8	2.8
87.5°	3.4	3.4	2.8	2.8	2.8	2.8	2.8	2.3	2.8	2.8	2.3
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: P154198

CATALOG NUMBER: AVM-E02-LED-E-U-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	60.2	60.2	60.2	60.2	60.2	60.2	60.2
2.5°	54.0	52.3	51.8	51.8	51.8	51.8	51.8
5°	49.5	47.8	46.7	46.1	46.1	46.1	46.1
7.5°	46.1	43.9	42.8	41.6	41.6	41.1	41.1
10°	42.8	40.5	38.8	37.7	37.1	37.1	37.1
12.5°	39.9	37.7	35.4	34.3	34.3	33.8	33.8
15°	37.7	34.3	32.6	31.5	31.5	30.9	30.9
17.5°	34.9	32.1	30.4	29.3	28.7	28.7	28.7
20°	32.1	29.3	27.6	27.0	26.4	26.4	25.9
22.5°	29.8	27.0	25.3	24.8	24.2	24.2	23.6
25°	27.6	24.8	23.1	22.5	21.9	21.4	21.4
27.5°	25.9	23.1	21.4	20.3	19.7	19.1	19.1
30°	24.2	20.8	19.1	18.0	17.4	16.9	16.9
32.5°	22.5	19.1	16.9	15.8	15.2	14.6	14.6
35°	20.3	16.9	14.6	14.1	13.5	12.9	12.4
37.5°	18.6	14.6	12.9	11.8	11.3	10.7	10.7
40°	16.3	12.9	11.3	10.1	9.0	8.4	8.4
42.5°	14.6	11.3	9.6	7.9	7.3	6.8	6.8
45°	12.9	10.1	7.9	6.2	5.6	5.1	5.1
47.5°	11.3	8.4	6.2	5.1	4.5	3.9	3.9
50°	9.6	6.8	4.5	3.4	3.9	3.4	3.4
52.5°	8.4	5.1	3.4	3.4	3.4	3.4	3.4
55°	6.8	3.9	2.8	2.8	3.4	3.4	3.4
57.5°	5.6	2.8	2.3	2.8	2.8	2.8	2.8
60°	3.9	2.3	2.3	2.8	2.8	2.8	2.8
62.5°	3.4	2.3	2.3	2.3	2.8	2.8	2.8
64°	2.8	2.3	2.3	2.3	2.8	2.8	2.8
65°	2.8	2.3	2.3	2.3	2.8	2.8	2.8
67.5°	2.8	2.3	2.3	2.3	2.8	2.8	2.8
70°	2.3	2.3	2.3	2.3	2.8	2.8	2.8
72.5°	2.3	2.3	2.3	2.3	2.8	2.8	2.8
75°	2.3	2.3	2.3	2.3	2.8	2.8	2.8
77.5°	2.3	2.3	2.3	2.8	2.8	2.8	2.8
80°	2.3	2.3	2.3	2.8	2.8	2.8	2.8
82.5°	2.3	2.3	2.3	2.8	2.8	2.8	2.8
85°	2.3	2.3	2.3	2.8	2.8	2.8	2.8
87.5°	2.3	2.3	2.3	2.8	2.8	2.8	2.8
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)