

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: P154203

Luminaire Tested: **AVM-F02-LED-E-U-T2-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P154203
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-F02-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: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2231.4 lumens
Efficiency: N/A
Efficacy: 40.6 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

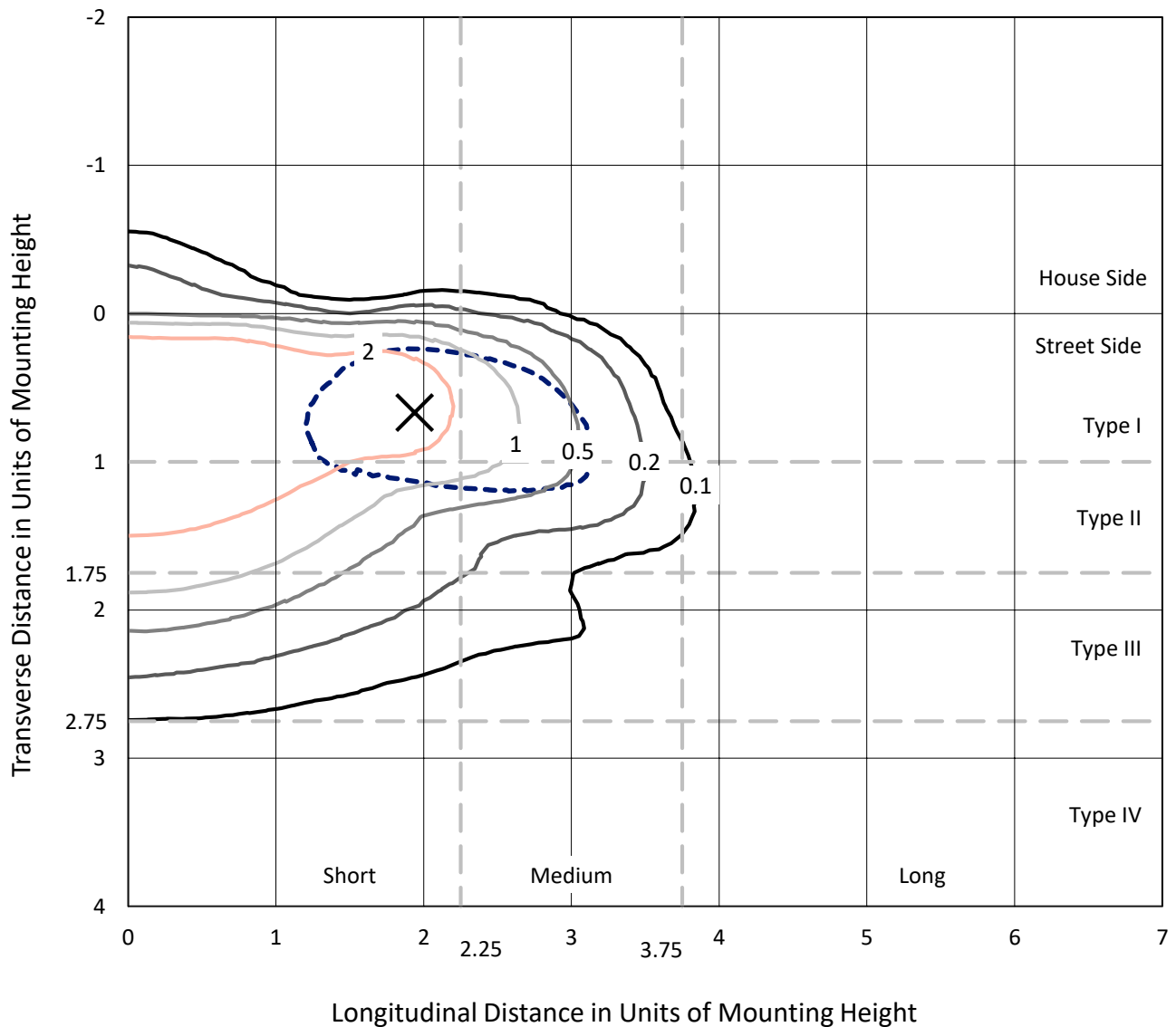
Input Watts (W): 55
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P154203
 CATALOG NUMBER: AVM-F02-LED-E-U-T2-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

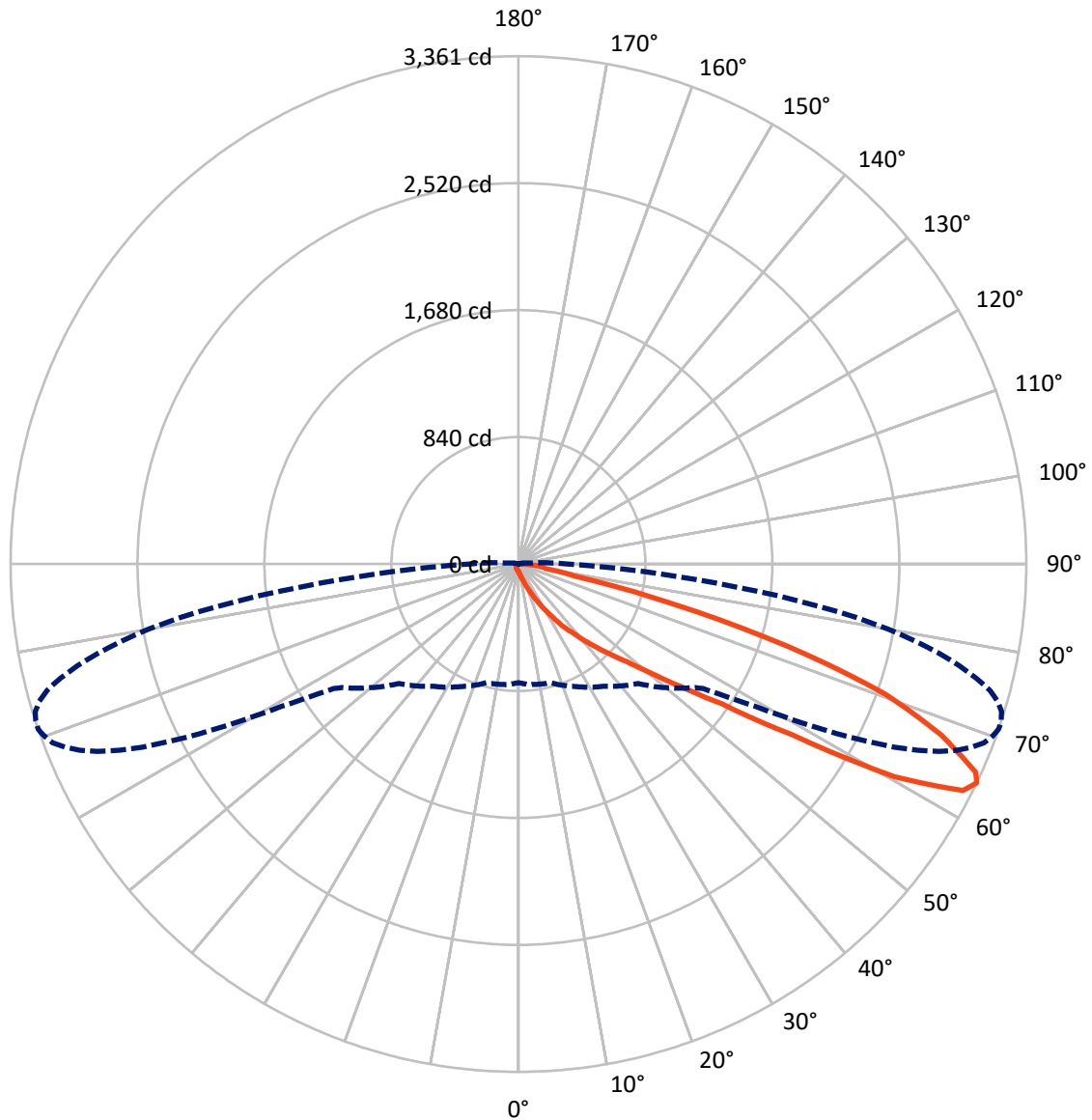
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.3 fc
 Type II - Short - Non-Cutoff

REPORT NUMBER: P154203
CATALOG NUMBER: AVM-F02-LED-E-U-T2-HSS-8030

Luminous Intensity Polar Plot



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

REPORT NUMBER: P154203

CATALOG NUMBER: AVM-F02-LED-E-U-T2-HSS-8030

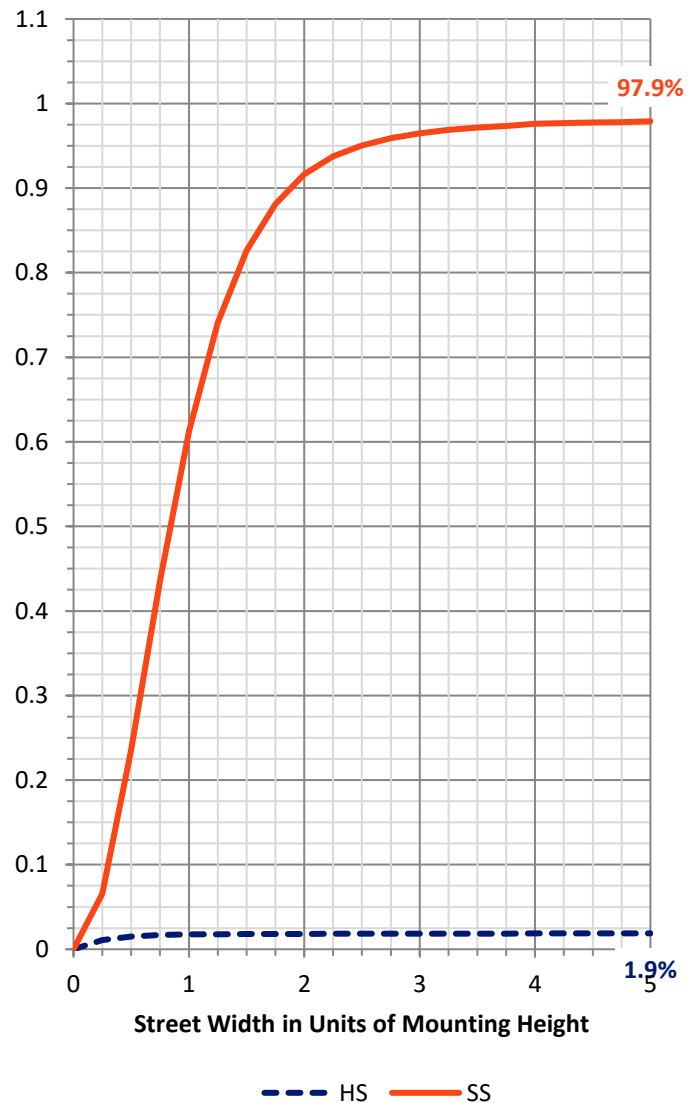
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	42.7	0.0	42.7
	% Fixture	1.9	0.0	1.9
Street Side	Lumens	2188.6	0.0	2188.6
	% Fixture	98.1	0.0	98.1
Total	Lumens	2231.4	0.0	2231.4
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	0.3
10°-20°	40.3	1.8
20°-30°	103.1	4.6
30°-40°	208.4	9.3
40°-50°	381.0	17.1
50°-60°	593.6	26.6
60°-70°	659.8	29.6
70°-80°	215.2	9.6
80°-90°	23.2	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°	2231.4	100.0
0°-180°	2231.4	100.0

Coefficient of Utilization



REPORT NUMBER: P154203

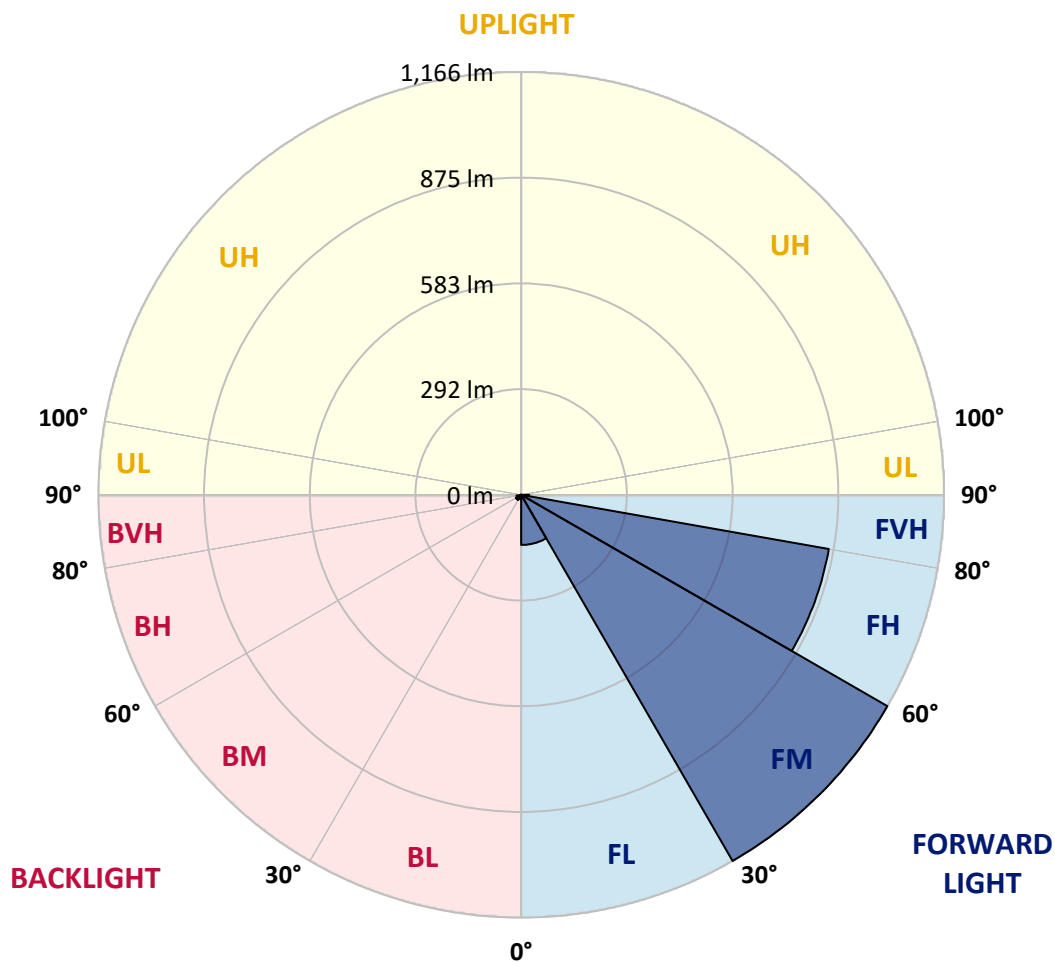
CATALOG NUMBER: AVM-F02-LED-E-U-T2-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	138.3	6.2			
FM	(30°-60°)	1166.5	52.3			
FH	(60°-80°)	861.8	38.6			G1/1800
FVH	(80°-90°)	22.0	1.0			G1/100
BL	(0°-30°)	11.9	0.5	B0/110		
BM	(30°-60°)	16.5	0.7	B0/220		
BH	(60°-80°)	13.2	0.6	B0/110		G0/110
BVH	(80°-90°)	1.1	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: P154203
 CATALOG NUMBER: AVM-F02-LED-E-U-T2-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	56°	57°	58°	59°
0°	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
2.5°	66.9	66.0	66.0	64.6	62.7	60.8	59.0	58.5	58.1	57.6	57.6
5°	105.0	101.3	99.9	94.8	88.3	80.4	73.4	71.5	71.5	70.1	69.2
7.5°	164.9	163.0	153.3	148.2	132.8	113.8	93.8	92.0	91.5	89.6	86.9
10°	241.5	237.8	230.9	216.0	188.1	155.1	126.8	122.2	118.9	115.2	111.5
12.5°	318.2	313.5	303.3	279.2	251.3	209.0	163.5	159.3	154.2	149.1	143.1
15°	394.8	391.6	375.8	351.6	315.4	264.8	207.2	199.7	195.6	185.3	180.7
17.5°	461.2	457.1	444.5	417.1	379.5	323.7	255.5	246.2	239.2	233.2	222.0
20°	518.8	514.7	502.6	479.8	437.5	382.7	307.5	302.8	290.3	281.0	274.5
22.5°	554.1	552.7	544.8	523.0	485.4	436.6	366.9	359.5	351.2	338.6	331.2
25°	576.0	574.6	569.9	554.6	529.1	493.3	432.4	423.2	415.7	404.6	395.3
27.5°	598.7	597.8	594.1	580.6	567.1	544.8	498.9	493.8	477.5	471.0	462.2
30°	636.4	632.2	635.4	628.9	611.7	597.8	565.7	558.3	551.4	540.2	532.3
32.5°	696.3	689.3	696.3	689.3	681.9	665.2	634.5	632.2	625.2	618.2	607.1
35°	769.7	766.9	772.4	778.5	772.4	750.2	713.0	706.0	703.2	692.1	687.9
37.5°	843.5	848.6	858.8	872.3	868.6	852.3	799.9	793.3	788.2	778.5	771.1
40°	922.9	923.4	945.2	964.7	974.5	964.7	895.5	890.4	883.5	869.5	867.7
42.5°	1009.3	1005.6	1021.9	1043.7	1063.7	1077.2	1021.9	1012.1	1002.4	986.6	975.9
45°	1086.0	1086.0	1099.0	1119.4	1150.1	1184.0	1155.2	1145.0	1135.7	1122.7	1110.6
47.5°	1142.6	1143.1	1151.0	1180.7	1228.6	1279.2	1280.1	1282.0	1275.0	1259.7	1260.2
50°	1182.6	1177.5	1188.2	1217.0	1272.2	1351.7	1408.8	1412.1	1417.6	1405.1	1408.8
52.5°	1211.9	1209.5	1216.5	1240.7	1295.9	1393.0	1514.2	1528.2	1536.5	1538.4	1553.7
55°	1196.5	1197.9	1214.6	1249.5	1308.9	1420.4	1603.9	1626.6	1646.2	1662.9	1681.9
57.5°	1145.9	1150.1	1179.3	1233.7	1311.7	1442.7	1699.1	1733.9	1770.6	1815.2	1852.9
60°	1065.1	1074.8	1114.3	1190.5	1284.8	1413.4	1727.4	1780.9	1837.1	1904.9	1980.6
62.5°	946.6	948.5	974.5	1048.4	1152.4	1257.8	1597.4	1665.7	1740.0	1838.0	1943.9
64°	784.5	801.2	813.3	894.6	987.5	1119.0	1425.5	1472.9	1576.5	1696.8	1830.1
65°	647.5	667.5	677.2	758.5	864.9	990.3	1276.0	1326.6	1435.7	1557.9	1724.2
67.5°	381.8	368.3	396.7	444.5	533.7	682.3	860.7	899.3	980.5	1125.9	1258.8
70°	246.2	246.2	272.2	321.0	403.6	517.4	591.3	575.0	592.2	648.4	742.3
72.5°	157.9	166.3	182.1	223.4	300.1	433.8	604.3	527.7	487.7	469.1	468.2
75°	72.0	76.6	93.8	118.4	160.2	282.9	609.4	576.0	539.3	504.0	476.6
77.5°	15.3	17.7	29.7	61.3	78.0	130.5	432.4	482.6	522.6	534.2	534.2
80°	7.9	8.4	12.5	28.8	33.4	44.1	166.8	219.2	270.3	337.7	408.3
82.5°	3.3	3.7	7.4	13.0	13.9	13.5	44.1	55.7	76.6	111.5	166.3
85°	0.9	0.9	3.3	5.1	7.4	6.0	9.8	11.1	14.4	20.9	39.9
87.5°	0.0	0.0	0.5	0.9	1.4	2.3	2.8	2.8	2.8	2.8	2.8
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: P154203
 CATALOG NUMBER: AVM-F02-LED-E-U-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	60°	61°	62°	64°	65°	66°	67°	68°	69°	70°	71°
0°	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
2.5°	57.1	57.1	56.7	56.2	56.2	55.3	55.3	54.8	54.8	54.3	54.3
5°	68.7	67.8	66.9	65.5	65.0	64.1	63.2	62.2	61.3	60.8	59.9
7.5°	85.5	84.5	81.8	79.9	77.6	76.2	74.3	72.9	71.5	70.6	68.7
10°	107.8	104.5	103.1	96.6	95.2	92.0	89.2	87.3	83.6	81.3	79.0
12.5°	139.3	133.3	131.0	119.8	116.6	111.9	108.7	104.0	99.9	97.1	92.9
15°	175.1	170.5	161.6	150.5	144.5	139.3	131.5	127.7	122.2	116.1	110.1
17.5°	217.8	209.5	199.7	185.3	177.9	170.0	162.6	154.7	145.4	139.8	133.3
20°	267.5	258.7	246.6	228.5	219.7	211.8	198.8	193.2	182.1	170.9	162.6
22.5°	321.9	313.1	301.5	281.0	269.4	256.4	245.7	236.0	223.0	211.8	202.1
25°	383.2	373.0	364.2	340.5	326.1	312.6	301.0	283.8	272.7	259.7	246.2
27.5°	452.9	440.8	429.2	403.2	389.7	374.8	360.9	342.8	332.1	310.7	298.2
30°	524.4	509.5	497.5	471.0	458.9	443.6	424.5	408.3	390.2	375.8	355.3
32.5°	599.7	587.6	577.8	550.0	534.6	515.6	498.4	481.2	465.4	442.2	423.6
35°	680.0	669.3	658.6	634.5	621.0	606.6	587.1	566.2	544.4	520.2	503.5
37.5°	764.6	756.2	747.8	718.6	702.8	687.4	665.2	644.2	624.7	599.2	570.9
40°	853.3	845.4	831.9	807.7	791.0	777.1	756.7	737.1	710.7	682.3	657.3
42.5°	964.7	947.6	935.9	909.5	891.8	876.5	858.4	829.1	806.8	772.9	748.8
45°	1095.3	1079.0	1060.0	1033.0	1011.2	986.1	960.6	940.6	912.7	882.1	850.9
47.5°	1242.0	1229.0	1206.7	1180.3	1158.4	1133.4	1103.2	1077.6	1043.7	1007.9	965.7
50°	1403.7	1390.2	1375.4	1345.6	1323.8	1300.1	1276.4	1246.2	1215.6	1172.8	1129.2
52.5°	1553.7	1556.5	1547.7	1533.7	1523.1	1498.4	1476.6	1447.8	1420.9	1381.9	1348.0
55°	1701.9	1726.0	1735.3	1748.8	1753.5	1733.5	1733.0	1690.7	1674.5	1651.7	1632.2
57.5°	1897.4	1950.9	1993.1	2074.9	2109.3	2144.1	2150.6	2120.9	2151.5	2112.0	2125.5
60°	2063.7	2161.7	2266.7	2478.1	2584.0	2663.9	2728.0	2775.3	2806.0	2858.0	2860.8
62.5°	2078.6	2232.8	2392.6	2701.0	2845.9	2967.2	3082.8	3163.6	3227.7	3286.7	3301.1
64°	2007.5	2198.4	2392.6	2765.6	2913.7	3048.5	3153.9	3234.2	3299.7	3336.4	3360.6
65°	1878.4	2092.1	2315.5	2722.8	2875.7	3018.7	3119.5	3200.3	3262.1	3298.8	3323.9
67.5°	1391.6	1598.3	1822.7	2296.9	2537.5	2668.5	2797.6	2911.0	2960.7	3007.1	3015.9
70°	848.2	998.2	1152.9	1592.7	1816.2	2051.7	2197.0	2362.9	2479.0	2550.5	2574.2
72.5°	511.9	563.9	656.3	892.8	1106.9	1272.2	1473.4	1631.8	1761.8	1833.8	1870.0
75°	455.7	449.2	461.2	559.7	635.9	735.3	808.2	907.6	988.0	1013.1	1060.0
77.5°	526.7	508.2	489.1	470.5	466.8	457.5	442.7	446.4	411.1	377.2	378.1
80°	469.1	513.7	540.2	520.7	476.6	432.0	377.2	308.9	241.5	199.7	182.1
82.5°	235.5	334.9	430.6	525.3	518.8	479.4	419.0	344.2	266.6	204.8	163.5
85°	72.5	128.7	181.2	251.8	292.2	286.6	251.8	244.8	174.6	136.1	105.0
87.5°	3.3	3.3	3.3	2.8	3.3	3.3	3.3	3.7	3.7	4.2	4.2
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: P154203
 CATALOG NUMBER: AVM-F02-LED-E-U-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	72°	73°	74°	75°	76°	77°	78°	79°	80°	81°	82°
0°	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
2.5°	54.3	53.9	53.4	53.0	53.0	53.0	52.5	52.5	52.0	52.0	51.6
5°	59.9	59.0	58.5	57.6	57.6	56.7	56.2	55.7	54.8	54.3	53.9
7.5°	67.4	66.4	65.0	63.6	63.2	61.8	60.4	59.5	58.5	57.6	56.7
10°	77.1	75.2	72.5	70.6	69.2	67.4	65.5	64.1	62.2	60.4	59.5
12.5°	89.6	85.9	83.1	79.9	77.1	74.3	71.1	69.2	67.4	64.6	62.7
15°	104.0	100.3	97.1	91.5	86.9	83.1	80.4	76.2	72.9	69.2	66.4
17.5°	128.7	118.9	112.4	106.8	102.2	95.2	89.6	85.0	80.8	76.2	72.9
20°	152.8	144.5	135.6	129.1	118.9	112.9	105.4	98.9	91.5	85.9	80.4
22.5°	188.1	177.4	166.3	156.5	142.6	134.2	124.5	116.1	106.8	97.5	91.5
25°	232.7	216.9	202.1	188.1	175.1	162.6	150.0	136.6	126.8	115.7	105.4
27.5°	279.6	262.0	247.6	229.5	212.7	197.4	181.6	167.2	150.5	136.1	124.0
30°	338.6	314.5	297.7	275.9	259.2	237.8	218.3	199.3	178.8	162.1	144.9
32.5°	398.5	382.3	353.9	335.4	310.3	284.7	264.3	242.5	217.4	195.6	174.6
35°	477.5	449.6	425.9	399.9	372.5	346.0	319.6	288.4	262.9	236.0	210.4
37.5°	547.2	518.8	491.4	457.5	426.4	398.5	366.5	334.0	303.8	271.7	241.1
40°	628.0	592.7	560.2	528.6	490.0	457.1	423.6	383.2	348.4	313.1	276.8
42.5°	716.2	680.5	641.9	605.7	563.4	523.0	481.7	441.3	402.2	359.5	317.2
45°	812.9	775.2	732.0	690.7	644.7	600.1	550.9	504.4	458.5	410.6	361.8
47.5°	932.7	884.4	844.4	792.9	735.8	688.8	628.5	575.5	523.0	467.3	412.5
50°	1087.8	1033.0	975.4	918.3	855.1	795.7	728.8	666.1	595.9	533.7	471.0
52.5°	1293.6	1252.7	1185.8	1120.4	1043.2	967.5	875.6	794.3	704.2	624.7	548.1
55°	1585.8	1558.8	1500.8	1429.2	1361.9	1251.3	1145.4	1019.1	902.0	787.8	680.0
57.5°	2114.8	2085.6	2021.0	2003.8	1900.2	1818.9	1694.9	1531.4	1333.1	1158.4	984.3
60°	2876.6	2819.5	2756.3	2744.7	2623.0	2537.5	2414.4	2240.2	2053.5	1774.8	1537.5
62.5°	3302.1	3284.9	3233.8	3171.1	3065.6	2938.8	2800.4	2631.8	2442.3	2198.0	1915.6
64°	3359.2	3343.4	3299.3	3228.7	3122.8	2996.9	2843.6	2675.5	2485.5	2262.5	2004.7
65°	3323.4	3301.1	3263.5	3198.5	3100.0	2979.2	2825.0	2654.6	2461.8	2247.2	2007.5
67.5°	3035.0	3024.8	2990.4	2930.0	2868.2	2759.5	2623.9	2471.6	2314.1	2101.4	1904.9
70°	2577.0	2569.6	2525.9	2501.7	2399.6	2330.8	2221.2	2101.4	1962.0	1813.8	1646.6
72.5°	1910.4	1885.4	1850.1	1813.4	1744.2	1649.9	1564.4	1436.7	1364.7	1239.7	1145.4
75°	1013.1	997.3	942.5	865.8	780.3	736.2	647.5	568.1	504.9	476.6	408.3
77.5°	350.2	319.1	288.4	254.1	201.6	158.9	126.8	101.3	79.9	70.6	59.0
80°	174.6	165.8	156.1	136.6	114.7	92.4	72.5	57.1	46.9	39.9	35.8
82.5°	141.7	125.4	111.9	98.0	78.5	64.6	51.1	41.8	34.4	30.2	26.5
85°	83.6	64.1	48.8	44.1	34.4	29.7	25.5	21.8	18.6	17.7	16.3
87.5°	3.3	4.2	4.2	3.3	4.2	3.7	3.7	3.3	3.3	3.3	3.3
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: P154203

CATALOG NUMBER: AVM-F02-LED-E-U-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	83°	84°	85°	86°	87°	88°	89°	90°	95°	105°	115°
0°	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7	49.7
2.5°	51.6	51.1	51.1	50.6	50.2	50.2	50.2	49.7	48.8	46.9	45.5
5°	53.4	53.0	52.5	51.6	51.1	50.6	50.2	50.2	47.8	44.6	42.3
7.5°	55.7	54.8	53.9	53.0	52.5	51.6	50.6	50.2	46.9	42.7	40.4
10°	58.1	56.7	55.3	54.8	53.4	52.5	51.1	50.2	46.4	41.3	38.1
12.5°	60.8	59.0	57.1	55.7	53.9	53.0	51.6	50.2	45.5	39.9	36.2
15°	64.1	61.3	59.0	57.6	55.7	53.4	51.6	50.2	44.6	38.6	34.4
17.5°	68.3	65.0	62.2	59.5	56.7	54.3	52.5	50.6	43.2	36.7	32.0
20°	74.8	70.6	66.0	62.7	59.0	56.2	53.0	50.6	42.3	34.8	30.2
22.5°	83.6	77.1	72.0	66.4	61.8	58.1	54.3	51.6	40.9	33.0	27.9
25°	96.1	87.8	79.4	72.5	66.4	61.3	56.7	53.0	39.9	31.6	26.5
27.5°	110.1	100.3	89.2	80.8	72.5	65.0	59.9	55.3	39.9	30.7	25.1
30°	129.6	115.7	102.2	91.5	80.4	72.0	64.6	58.5	39.9	30.2	23.7
32.5°	153.3	137.5	120.3	105.0	92.0	79.9	70.6	62.7	40.9	29.3	22.8
35°	186.3	163.0	142.6	123.6	106.4	92.4	80.4	69.7	42.3	28.8	21.4
37.5°	212.3	184.4	158.4	136.6	116.6	99.4	84.1	72.5	40.9	26.9	20.0
40°	243.4	211.8	180.2	152.8	130.1	107.8	90.1	76.2	39.9	24.6	18.1
42.5°	281.0	241.5	204.8	173.7	145.4	118.9	98.0	80.8	39.9	23.2	16.7
45°	316.3	273.1	232.2	193.2	160.2	131.0	105.4	85.9	39.5	21.8	14.9
47.5°	360.0	308.9	261.0	216.0	177.9	142.1	113.3	90.6	39.0	20.4	13.5
50°	411.5	349.3	295.4	241.5	195.1	155.6	122.6	95.7	38.1	19.0	12.1
52.5°	468.7	401.8	333.0	270.8	216.5	170.0	131.5	100.3	36.7	17.7	10.7
55°	569.9	478.0	396.7	319.6	249.0	191.4	144.5	107.3	35.3	16.3	9.3
57.5°	812.9	660.5	545.3	429.2	327.9	245.7	179.8	127.3	33.4	14.4	7.4
60°	1276.4	1025.1	829.6	650.8	496.1	377.2	264.8	188.1	35.8	12.1	6.5
62.5°	1637.3	1348.4	1099.4	875.1	679.5	516.5	385.5	281.0	51.6	10.7	5.1
64°	1731.6	1439.0	1173.3	938.3	734.8	566.7	430.1	317.7	66.4	10.7	4.6
65°	1745.6	1466.9	1199.8	961.5	753.9	580.1	443.1	329.8	72.5	11.1	4.2
67.5°	1688.0	1450.6	1207.7	971.2	768.3	598.7	460.8	348.8	81.8	10.7	3.3
70°	1474.3	1299.6	1099.9	908.5	724.6	569.0	443.1	338.1	85.5	10.2	2.8
72.5°	1003.3	883.0	765.0	629.4	504.4	415.7	323.3	238.3	59.9	8.4	2.3
75°	334.4	326.1	291.7	221.1	185.8	151.0	120.8	92.9	22.8	5.1	2.3
77.5°	55.7	47.8	41.8	39.9	33.4	32.5	28.3	22.8	9.8	3.3	2.3
80°	32.5	29.7	26.0	23.2	20.4	18.1	15.3	13.0	6.0	2.3	2.8
82.5°	24.2	21.4	19.0	16.7	14.4	12.5	10.7	8.8	3.3	2.3	2.8
85°	13.9	12.1	10.7	9.3	7.4	6.5	5.6	4.6	2.3	2.3	2.3
87.5°	2.8	2.8	2.3	2.3	2.3	2.3	2.3	1.9	2.3	2.3	1.9
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: P154203

CATALOG NUMBER: AVM-F02-LED-E-U-T2-HSS-8030

CANDELA DISTRIBUTION (continued):

	125°	135°	145°	155°	165°	175°	180°
0°	49.7	49.7	49.7	49.7	49.7	49.7	49.7
2.5°	44.6	43.2	42.7	42.7	42.7	42.7	42.7
5°	40.9	39.5	38.6	38.1	38.1	38.1	38.1
7.5°	38.1	36.2	35.3	34.4	34.4	33.9	33.9
10°	35.3	33.4	32.0	31.1	30.7	30.7	30.7
12.5°	33.0	31.1	29.3	28.3	28.3	27.9	27.9
15°	31.1	28.3	26.9	26.0	26.0	25.5	25.5
17.5°	28.8	26.5	25.1	24.2	23.7	23.7	23.7
20°	26.5	24.2	22.8	22.3	21.8	21.8	21.4
22.5°	24.6	22.3	20.9	20.4	20.0	20.0	19.5
25°	22.8	20.4	19.0	18.6	18.1	17.7	17.7
27.5°	21.4	19.0	17.7	16.7	16.3	15.8	15.8
30°	20.0	17.2	15.8	14.9	14.4	13.9	13.9
32.5°	18.6	15.8	13.9	13.0	12.5	12.1	12.1
35°	16.7	13.9	12.1	11.6	11.1	10.7	10.2
37.5°	15.3	12.1	10.7	9.8	9.3	8.8	8.8
40°	13.5	10.7	9.3	8.4	7.4	7.0	7.0
42.5°	12.1	9.3	7.9	6.5	6.0	5.6	5.6
45°	10.7	8.4	6.5	5.1	4.6	4.2	4.2
47.5°	9.3	7.0	5.1	4.2	3.7	3.3	3.3
50°	7.9	5.6	3.7	2.8	3.3	2.8	2.8
52.5°	7.0	4.2	2.8	2.8	2.8	2.8	2.8
55°	5.6	3.3	2.3	2.3	2.8	2.8	2.8
57.5°	4.6	2.3	1.9	2.3	2.3	2.3	2.3
60°	3.3	1.9	1.9	2.3	2.3	2.3	2.3
62.5°	2.8	1.9	1.9	1.9	2.3	2.3	2.3
64°	2.3	1.9	1.9	1.9	2.3	2.3	2.3
65°	2.3	1.9	1.9	1.9	2.3	2.3	2.3
67.5°	2.3	1.9	1.9	1.9	2.3	2.3	2.3
70°	1.9	1.9	1.9	1.9	2.3	2.3	2.3
72.5°	1.9	1.9	1.9	1.9	2.3	2.3	2.3
75°	1.9	1.9	1.9	1.9	2.3	2.3	2.3
77.5°	1.9	1.9	1.9	2.3	2.3	2.3	2.3
80°	1.9	1.9	1.9	2.3	2.3	2.3	2.3
82.5°	1.9	1.9	1.9	2.3	2.3	2.3	2.3
85°	1.9	1.9	1.9	2.3	2.3	2.3	2.3
87.5°	1.9	1.9	1.9	2.3	2.3	2.3	2.3
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)