

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: P156303

Luminaire Tested: **AVM-F04-LED-E-U-T4-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156303
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-F04-LED-E-U-T4-HSS-8030
Description: VISION SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD
Light Source: (28) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 5390 lumens
Efficiency: N/A
Efficacy: 52.7 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

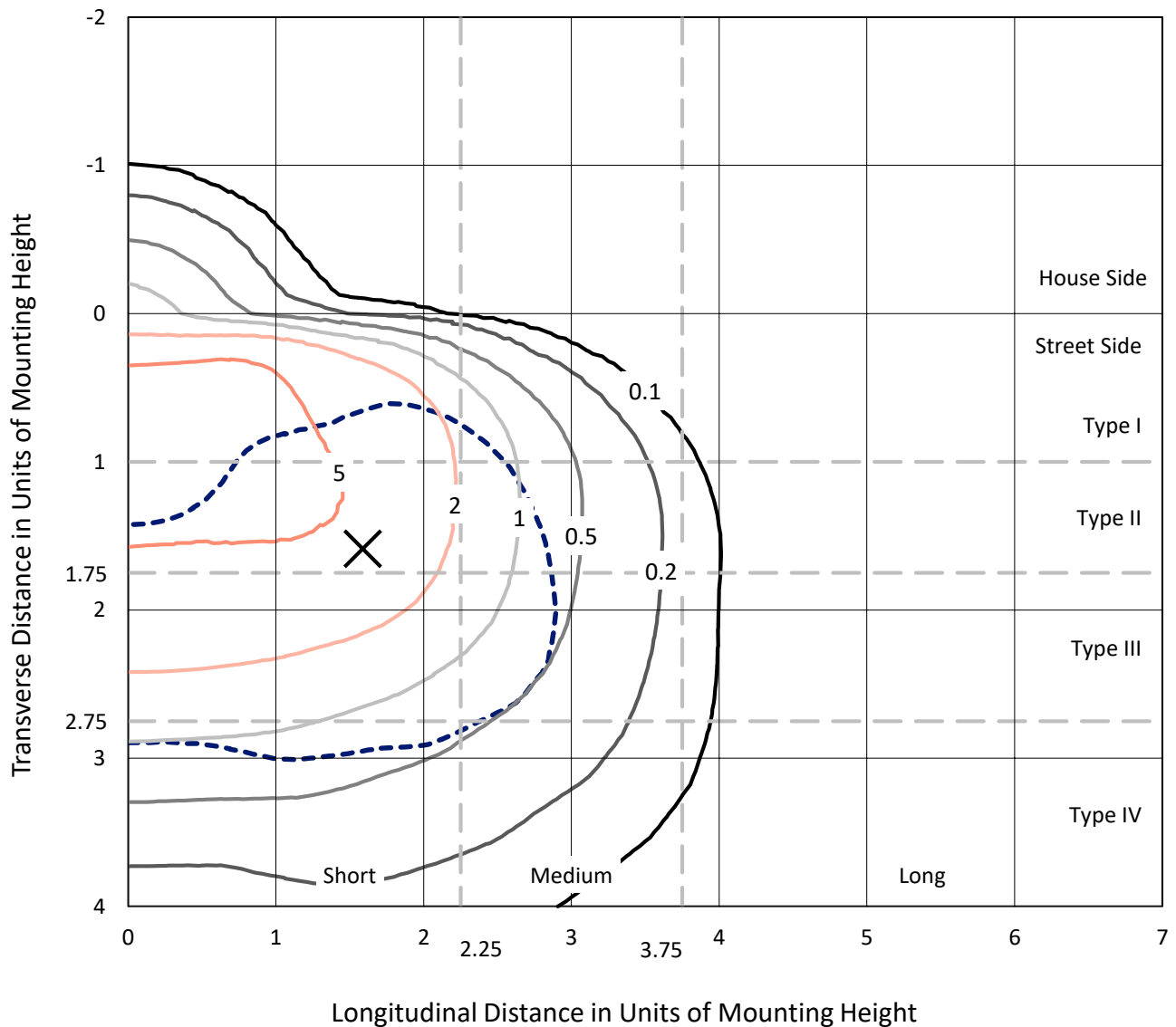
Input Watts (W): 102.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



REPORT NUMBER: P156303
 CATALOG NUMBER: AVM-F04-LED-E-U-T4-HSS-8030

Iso-Footcandle Lines of Horizontal Illumination

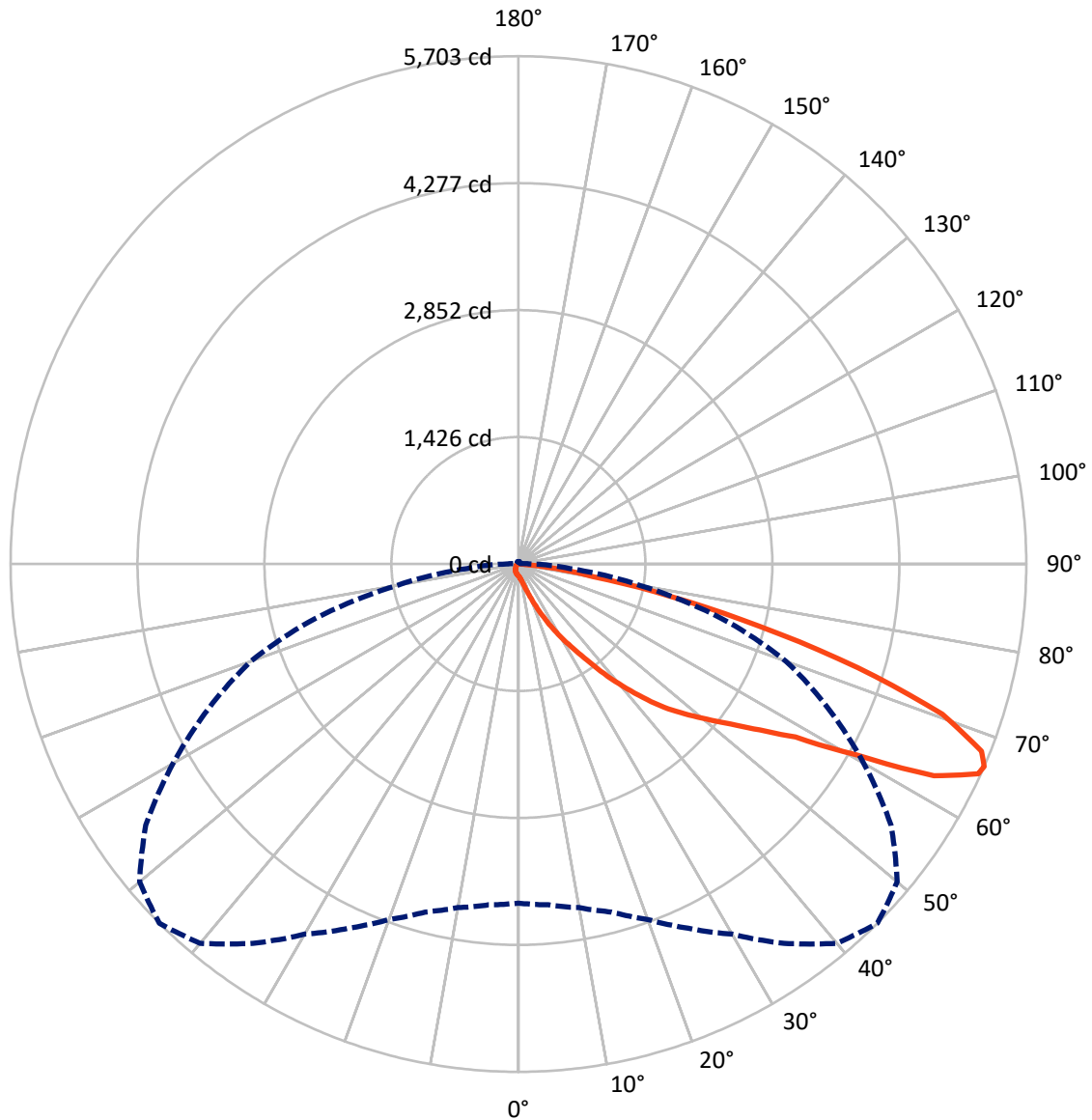
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.6 fc
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P156303
CATALOG NUMBER: AVM-F04-LED-E-U-T4-HSS-8030

Luminous Intensity Polar Plot



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



REPORT NUMBER: P156303

CATALOG NUMBER: AVM-F04-LED-E-U-T4-HSS-8030

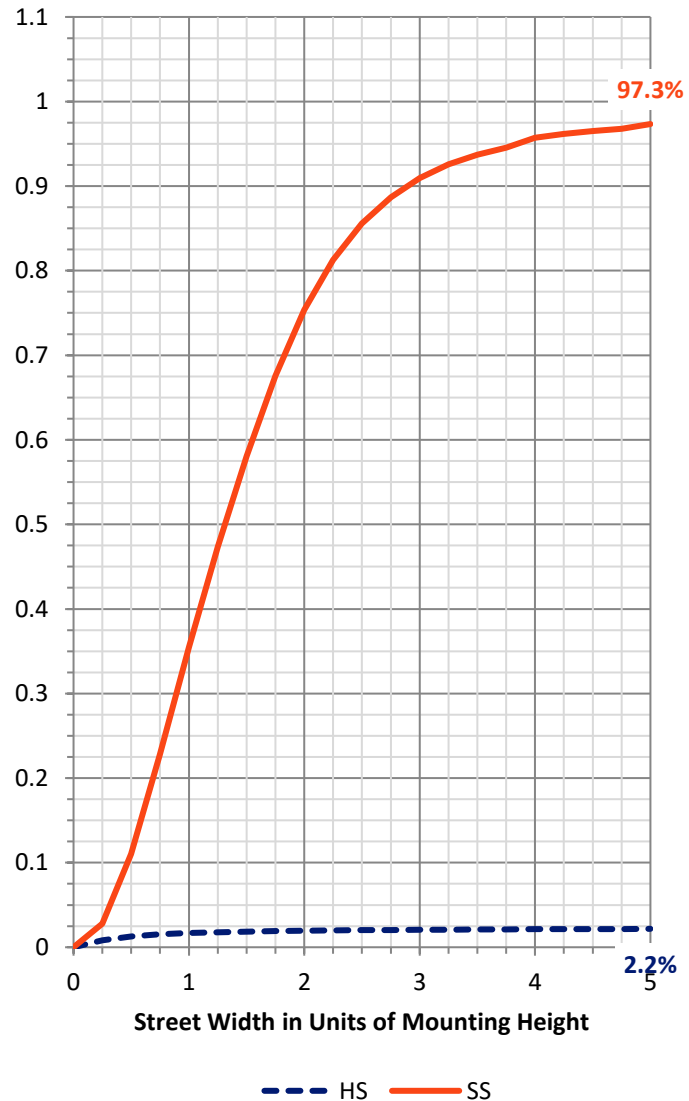
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	122.2	0.0	122.2
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	5267.9	0.0	5267.9
	% Fixture	97.7	0.0	97.7
Total	Lumens	5390.0	0.0	5390.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	13.6	0.3
10°-20°	55.0	1.0
20°-30°	161.0	3.0
30°-40°	376.2	7.0
40°-50°	706.5	13.1
50°-60°	1170.9	21.7
60°-70°	1858.8	34.5
70°-80°	961.3	17.8
80°-90°	86.8	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°	5390.0	100.0
0°-180°	5390.0	100.0



REPORT NUMBER: P156303

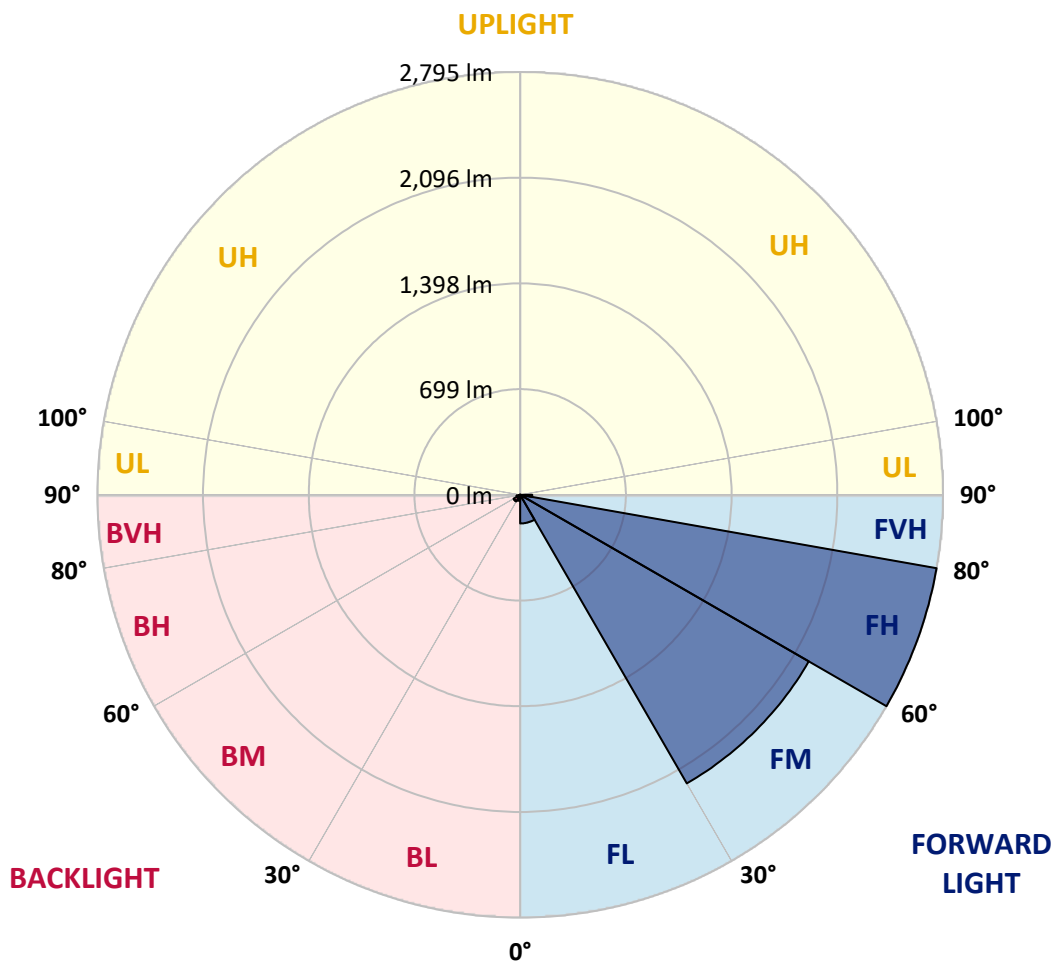
CATALOG NUMBER: AVM-F04-LED-E-U-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	189.7	3.5			
FM	(30°-60°)	2202.9	40.9			
FH	(60°-80°)	2795.3	51.9			G2/5000
FVH	(80°-90°)	80.0	1.5			G1/100
BL	(0°-30°)	39.9	0.7	B0/110		
BM	(30°-60°)	50.7	0.9	B0/220		
BH	(60°-80°)	24.7	0.5	B0/110		G0/110
BVH	(80°-90°)	6.9	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 IV Short





REPORT NUMBER: P156303
 CATALOG NUMBER: AVM-F04-LED-E-U-T4-HSS-8030

CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7
2.5°	145.8	145.8	145.8	145.8	144.9	144.0	143.1	142.1	141.2	141.2	140.3
5°	165.4	166.3	165.4	164.4	162.6	161.6	158.9	157.0	154.2	153.3	150.5
7.5°	192.3	191.4	192.3	189.5	185.8	184.9	181.2	176.5	172.8	167.2	163.5
10°	231.3	230.4	231.3	225.7	220.2	215.5	209.0	203.4	195.1	188.6	181.2
12.5°	293.6	293.6	291.7	284.3	276.8	266.6	256.4	244.3	229.5	216.5	204.4
15°	389.2	384.6	376.2	371.6	358.6	342.8	331.6	307.5	286.1	265.7	241.5
17.5°	504.4	495.1	488.6	478.4	461.7	441.3	422.7	387.4	366.0	332.6	298.2
20°	636.4	625.2	623.3	607.6	589.9	567.6	540.7	498.9	462.6	420.8	372.5
22.5°	771.1	772.9	765.5	754.3	736.7	710.7	668.9	630.8	586.2	533.2	471.0
25°	921.5	920.6	914.1	901.1	888.1	855.6	822.1	785.9	733.0	665.2	590.8
27.5°	1062.8	1061.8	1046.0	1047.0	1021.9	1009.8	977.3	938.3	874.2	817.5	736.7
30°	1210.5	1201.2	1191.0	1183.5	1165.9	1144.5	1127.8	1081.3	1033.0	966.1	900.2
32.5°	1360.0	1349.8	1352.6	1343.3	1329.4	1308.0	1282.9	1244.8	1192.8	1127.8	1066.5
35°	1543.0	1538.4	1531.0	1533.7	1531.0	1515.2	1493.8	1443.6	1387.0	1324.7	1261.6
37.5°	1678.7	1674.0	1678.7	1698.2	1702.8	1713.0	1697.2	1672.2	1631.3	1563.5	1497.5
40°	1804.1	1805.0	1826.4	1850.5	1867.3	1900.7	1906.3	1896.0	1863.5	1801.3	1714.9
42.5°	1916.5	1930.4	1949.9	1989.9	2026.1	2073.5	2108.8	2114.4	2090.2	2049.3	1962.0
45°	2041.9	2054.0	2084.6	2132.0	2182.2	2240.7	2297.4	2327.1	2325.2	2296.4	2202.6
47.5°	2182.2	2198.0	2231.4	2270.4	2337.3	2403.3	2476.7	2529.6	2551.9	2512.0	2420.9
50°	2352.2	2358.7	2387.5	2437.6	2499.0	2575.1	2655.0	2732.1	2775.8	2738.6	2644.8
52.5°	2553.8	2555.6	2582.6	2629.0	2678.3	2761.9	2839.9	2946.7	3003.4	2983.0	2870.6
55°	2830.6	2825.0	2843.6	2883.6	2923.5	3004.3	3082.4	3203.1	3285.8	3287.7	3167.8
57.5°	3208.7	3195.7	3207.8	3239.4	3283.9	3359.2	3457.7	3564.5	3675.0	3667.6	3569.1
60°	3735.4	3730.8	3753.1	3806.0	3882.2	3960.2	4071.7	4215.7	4313.3	4346.7	4243.6
62.5°	4085.7	4098.7	4149.8	4231.5	4378.3	4539.9	4747.1	4967.3	5153.1	5236.7	5094.5
65°	3935.2	3956.5	4036.4	4157.2	4351.3	4593.8	4868.8	5230.2	5550.7	5677.9	5530.2
66°	3807.9	3842.3	3917.5	4045.7	4248.2	4513.0	4800.0	5199.5	5559.9	5703.0	5552.5
67.5°	3587.7	3611.9	3697.3	3839.5	4056.9	4318.8	4629.1	5050.9	5457.8	5609.2	5459.6
70°	3139.0	3148.3	3218.0	3338.8	3506.9	3775.4	4056.9	4462.8	4837.2	5049.9	4886.4
72.5°	2336.4	2349.4	2464.6	2684.8	2903.1	3055.4	3221.7	3546.8	3788.4	3987.2	3955.6
75°	1124.1	1129.6	1206.7	1528.2	1953.6	2135.7	2289.9	2541.7	2633.7	2799.9	2774.9
77.5°	712.5	724.6	774.8	852.8	1094.3	1310.8	1432.5	1576.5	1603.4	1743.7	1661.9
80°	196.0	227.6	277.8	408.8	701.4	836.1	890.9	885.3	890.9	848.2	820.3
82.5°	39.9	39.0	47.4	73.4	309.4	486.8	525.8	447.8	445.0	428.3	442.2
85°	10.2	9.3	11.1	23.2	53.0	144.0	181.2	101.3	77.1	73.4	65.0
87.5°	2.8	2.8	2.8	4.6	5.6	7.4	10.2	7.4	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: P156303

CATALOG NUMBER: AVM-F04-LED-E-U-T4-HSS-8030

CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7
2.5°	139.3	139.3	138.4	137.5	137.5	136.6	135.6	134.7	133.8	132.8	131.9
5°	147.7	145.8	143.1	141.2	139.3	136.6	134.7	132.8	131.0	130.1	128.2
7.5°	158.9	154.2	150.5	144.9	141.2	137.5	133.8	131.0	128.2	126.3	124.5
10°	172.8	165.4	157.9	150.5	144.0	138.4	132.8	128.2	125.4	122.6	120.8
12.5°	190.4	179.3	169.1	157.9	147.7	139.3	131.9	126.3	122.6	119.8	117.1
15°	219.2	201.6	183.9	167.2	154.2	141.2	131.0	124.5	119.8	117.1	114.3
17.5°	264.8	233.2	205.3	182.1	160.7	144.0	131.0	122.6	117.1	113.3	110.5
20°	330.7	278.7	234.1	200.7	172.8	148.6	131.0	119.8	114.3	109.6	106.8
22.5°	408.8	343.7	282.4	226.7	186.7	155.1	131.0	117.1	110.5	106.8	103.1
25°	523.0	436.6	353.0	275.0	209.9	165.4	133.8	115.2	107.8	103.1	99.4
27.5°	656.8	552.7	448.7	339.1	245.3	180.2	137.5	113.3	105.0	99.4	95.7
30°	809.1	693.9	566.7	424.5	291.7	199.7	144.0	112.4	101.3	95.7	91.0
32.5°	974.5	852.8	713.5	534.2	360.4	229.5	152.4	111.5	97.5	91.0	85.5
35°	1171.4	1058.1	888.1	688.4	467.3	280.6	170.9	113.3	93.8	86.4	79.9
37.5°	1387.0	1266.2	1086.0	851.9	573.2	338.1	184.9	110.5	87.3	79.9	73.4
40°	1604.3	1465.9	1282.9	1023.7	707.9	408.8	202.5	107.8	80.8	73.4	66.9
42.5°	1816.2	1670.3	1471.5	1200.2	850.0	492.4	224.8	107.8	76.2	66.9	60.4
45°	2038.2	1862.6	1645.2	1369.3	991.2	588.0	256.4	106.8	70.6	61.3	53.9
47.5°	2248.1	2040.0	1790.1	1518.0	1142.6	693.0	292.6	107.8	66.0	55.7	49.2
50°	2446.9	2208.2	1938.8	1650.8	1287.6	806.4	337.2	108.7	61.3	51.1	44.6
52.5°	2664.3	2399.6	2098.6	1787.4	1430.6	920.6	389.2	110.5	56.7	46.4	40.9
55°	2933.7	2640.2	2295.5	1954.6	1582.1	1035.8	439.4	112.4	52.0	42.7	37.2
57.5°	3322.0	2987.6	2615.1	2205.4	1782.7	1166.8	491.4	117.1	48.3	39.9	34.4
60°	3953.7	3555.2	3125.1	2642.0	2082.8	1344.2	566.7	127.3	43.7	36.2	32.5
62.5°	4713.6	4234.3	3687.1	3100.9	2365.2	1464.1	616.8	138.4	39.9	33.4	30.7
65°	5096.4	4492.6	3861.8	3229.1	2401.4	1428.8	596.4	134.7	35.3	29.7	26.0
66°	5107.5	4478.6	3837.6	3201.3	2364.3	1386.0	576.9	132.8	34.4	28.8	24.2
67.5°	5001.6	4358.8	3709.4	3074.9	2254.6	1303.4	541.6	126.3	31.6	26.0	21.4
70°	4478.6	3852.5	3257.0	2670.8	1939.7	1098.1	454.3	111.5	27.9	23.2	19.5
72.5°	3570.1	3060.1	2558.4	2101.4	1507.7	824.0	358.6	91.0	24.2	20.4	16.7
75°	2493.4	2074.4	1692.6	1366.5	947.6	493.3	232.2	64.1	20.4	16.7	13.9
77.5°	1391.6	1103.6	834.2	635.4	378.1	154.2	77.1	32.5	17.7	13.0	11.1
80°	707.9	524.9	399.5	294.5	174.6	79.9	39.0	21.4	13.9	10.2	9.3
82.5°	411.5	301.9	240.6	190.4	119.8	60.4	31.6	15.8	9.3	7.4	8.4
85°	92.0	121.7	103.1	87.3	64.1	38.1	22.3	10.2	6.5	6.5	7.4
87.5°	7.4	10.2	9.3	12.1	13.0	12.1	9.3	5.6	4.6	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: P156303

CATALOG NUMBER: AVM-F04-LED-E-U-T4-HSS-8030

CANDELA DISTRIBUTION (continued):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7	134.7
2.5°	131.0	130.1	130.1	129.1	128.2	128.2	128.2	127.3	128.2	128.2	128.2
5°	127.3	126.3	125.4	124.5	123.6	122.6	122.6	121.7	121.7	121.7	122.6
7.5°	123.6	121.7	120.8	118.9	118.0	117.1	117.1	116.1	116.1	116.1	116.1
10°	118.9	117.1	115.2	114.3	113.3	111.5	111.5	110.5	109.6	109.6	109.6
12.5°	115.2	113.3	111.5	109.6	107.8	106.8	105.9	105.0	104.0	104.0	104.0
15°	111.5	108.7	106.8	105.0	103.1	101.3	100.3	99.4	98.5	97.5	97.5
17.5°	107.8	105.0	102.2	100.3	98.5	96.6	95.7	92.9	92.9	92.0	92.0
20°	103.1	100.3	97.5	95.7	93.8	92.0	90.1	88.3	86.4	85.5	85.5
22.5°	99.4	96.6	93.8	91.0	88.3	85.5	83.6	81.8	80.8	79.9	79.0
25°	95.7	92.0	88.3	85.5	82.7	79.9	78.0	76.2	74.3	73.4	73.4
27.5°	91.0	87.3	83.6	79.9	77.1	74.3	72.5	69.7	68.7	67.8	66.9
30°	86.4	81.8	78.0	74.3	71.5	67.8	66.0	64.1	62.2	62.2	61.3
32.5°	80.8	76.2	72.5	68.7	65.0	62.2	60.4	58.5	57.6	55.7	55.7
35°	75.2	70.6	66.0	62.2	59.5	56.7	54.8	53.0	51.1	50.2	50.2
37.5°	68.7	64.1	60.4	56.7	53.9	51.1	49.2	47.4	46.4	45.5	44.6
40°	61.3	56.7	53.9	51.1	48.3	46.4	43.7	41.8	40.9	39.9	39.0
42.5°	54.8	50.2	48.3	46.4	43.7	41.8	39.0	37.2	35.3	34.4	33.4
45°	49.2	45.5	43.7	41.8	39.0	36.2	34.4	32.5	30.7	29.7	29.7
47.5°	43.7	40.9	39.0	37.2	34.4	32.5	29.7	28.8	26.9	26.9	26.9
50°	39.9	37.2	35.3	33.4	31.6	28.8	26.9	26.0	25.1	25.1	26.0
52.5°	37.2	34.4	32.5	30.7	28.8	26.9	25.1	24.2	24.2	25.1	26.0
55°	34.4	31.6	29.7	27.9	26.0	25.1	23.2	23.2	24.2	25.1	26.0
57.5°	32.5	28.8	26.9	26.0	24.2	23.2	23.2	23.2	24.2	25.1	26.9
60°	29.7	26.0	24.2	24.2	22.3	22.3	22.3	23.2	24.2	26.0	26.9
62.5°	26.0	23.2	22.3	22.3	21.4	21.4	22.3	23.2	25.1	26.0	26.9
65°	22.3	20.4	20.4	20.4	20.4	21.4	22.3	23.2	24.2	26.0	26.9
66°	20.4	19.5	19.5	20.4	20.4	21.4	22.3	23.2	24.2	25.1	26.0
67.5°	19.5	18.6	18.6	19.5	20.4	20.4	21.4	23.2	24.2	25.1	25.1
70°	16.7	16.7	16.7	18.6	19.5	20.4	21.4	22.3	23.2	24.2	25.1
72.5°	14.9	14.9	15.8	16.7	18.6	19.5	20.4	21.4	23.2	24.2	24.2
75°	13.0	13.0	14.9	15.8	17.7	18.6	20.4	21.4	22.3	23.2	23.2
77.5°	11.1	12.1	13.9	15.8	16.7	18.6	19.5	20.4	21.4	22.3	22.3
80°	10.2	12.1	13.9	14.9	15.8	16.7	17.7	19.5	20.4	21.4	22.3
82.5°	10.2	11.1	13.0	13.9	14.9	16.7	17.7	18.6	19.5	20.4	21.4
85°	8.4	10.2	11.1	13.0	13.9	15.8	16.7	16.7	17.7	18.6	19.5
87.5°	6.5	7.4	7.4	9.3	10.2	12.1	13.9	13.9	14.9	15.8	16.7
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: P156303

CATALOG NUMBER: AVM-F04-LED-E-U-T4-HSS-8030

CANDELA DISTRIBUTION (continued):

	165°	170°	175°	180°
0°	134.7	134.7	134.7	134.7
2.5°	128.2	129.1	129.1	129.1
5°	122.6	122.6	122.6	122.6
7.5°	116.1	116.1	116.1	116.1
10°	109.6	109.6	110.5	109.6
12.5°	104.0	103.1	103.1	103.1
15°	97.5	97.5	96.6	97.5
17.5°	91.0	91.0	90.1	90.1
20°	84.5	84.5	84.5	84.5
22.5°	79.0	78.0	78.0	78.0
25°	72.5	72.5	72.5	72.5
27.5°	66.9	66.9	66.9	66.9
30°	61.3	61.3	60.4	60.4
32.5°	55.7	55.7	55.7	55.7
35°	50.2	50.2	49.2	49.2
37.5°	43.7	43.7	43.7	43.7
40°	38.1	38.1	38.1	38.1
42.5°	33.4	33.4	32.5	32.5
45°	28.8	28.8	28.8	28.8
47.5°	26.9	26.9	26.9	26.9
50°	26.0	26.9	26.9	26.9
52.5°	26.9	26.9	26.9	26.9
55°	26.9	27.9	27.9	27.9
57.5°	26.9	27.9	27.9	28.8
60°	27.9	28.8	28.8	28.8
62.5°	27.9	28.8	28.8	28.8
65°	26.9	27.9	27.9	27.9
66°	26.9	26.9	26.9	27.9
67.5°	26.0	26.9	26.9	26.9
70°	25.1	26.0	26.0	26.9
72.5°	25.1	26.0	26.0	26.0
75°	24.2	24.2	25.1	25.1
77.5°	23.2	23.2	24.2	24.2
80°	22.3	23.2	23.2	23.2
82.5°	21.4	22.3	22.3	22.3
85°	19.5	20.4	20.4	20.4
87.5°	16.7	16.7	17.7	17.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)