

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: P156313

Luminaire Tested: **AVM-F05-LED-E-U-T4-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156313  
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-F05-LED-E-U-T4-HSS-8030  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD  
Light Source: (35) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

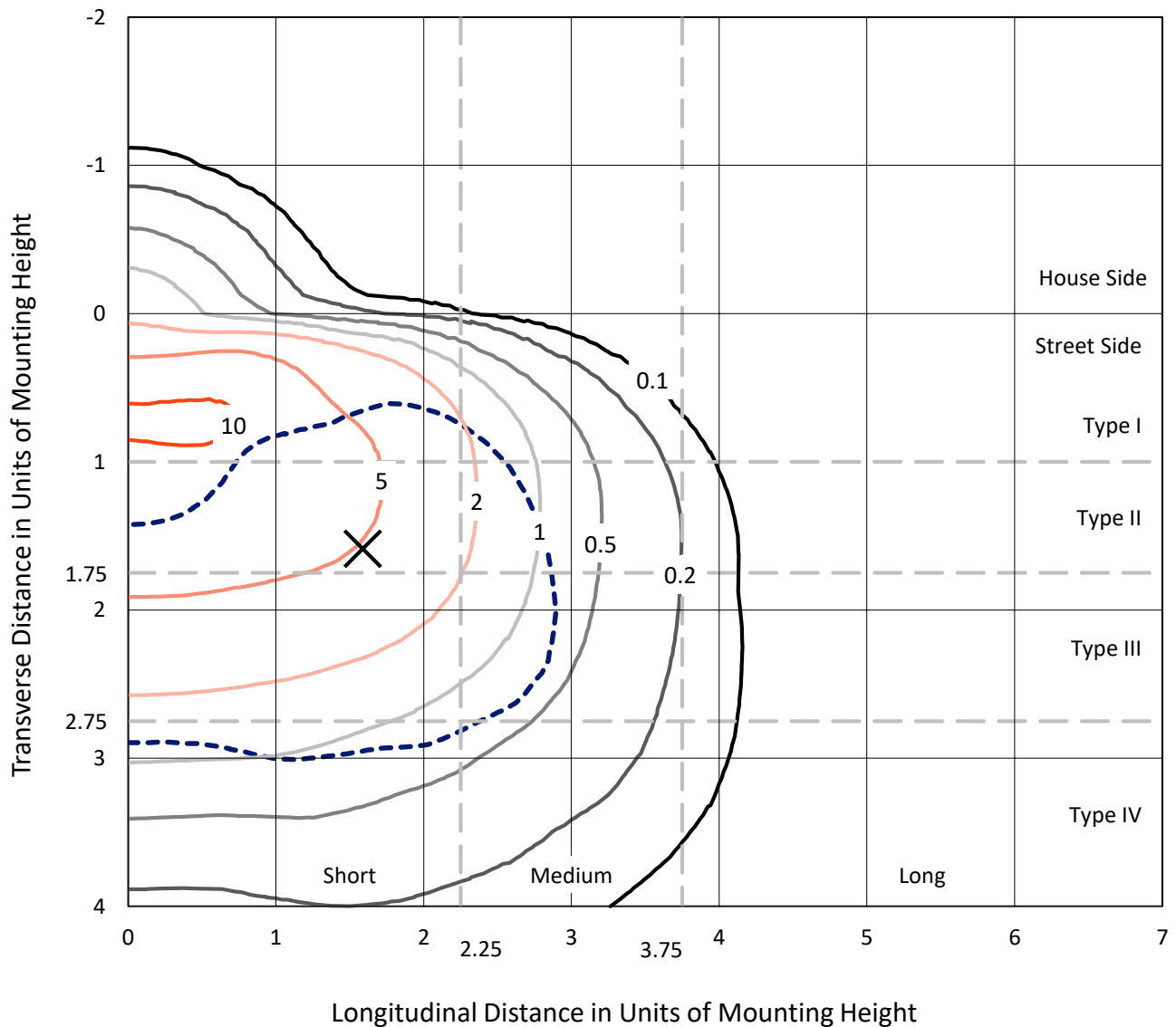
Lumens per Lamp: N/A  
Luminaire Lumens: 6737.6 lumens  
Efficiency: N/A  
Efficacy: 50.5 lumens/watt  
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2  
  
Input Watts (W): 133.3  
Input Voltage (V): NR  
Input Current (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



REPORT NUMBER: P156313  
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### Iso-Footcandle Lines of Horizontal Illumination

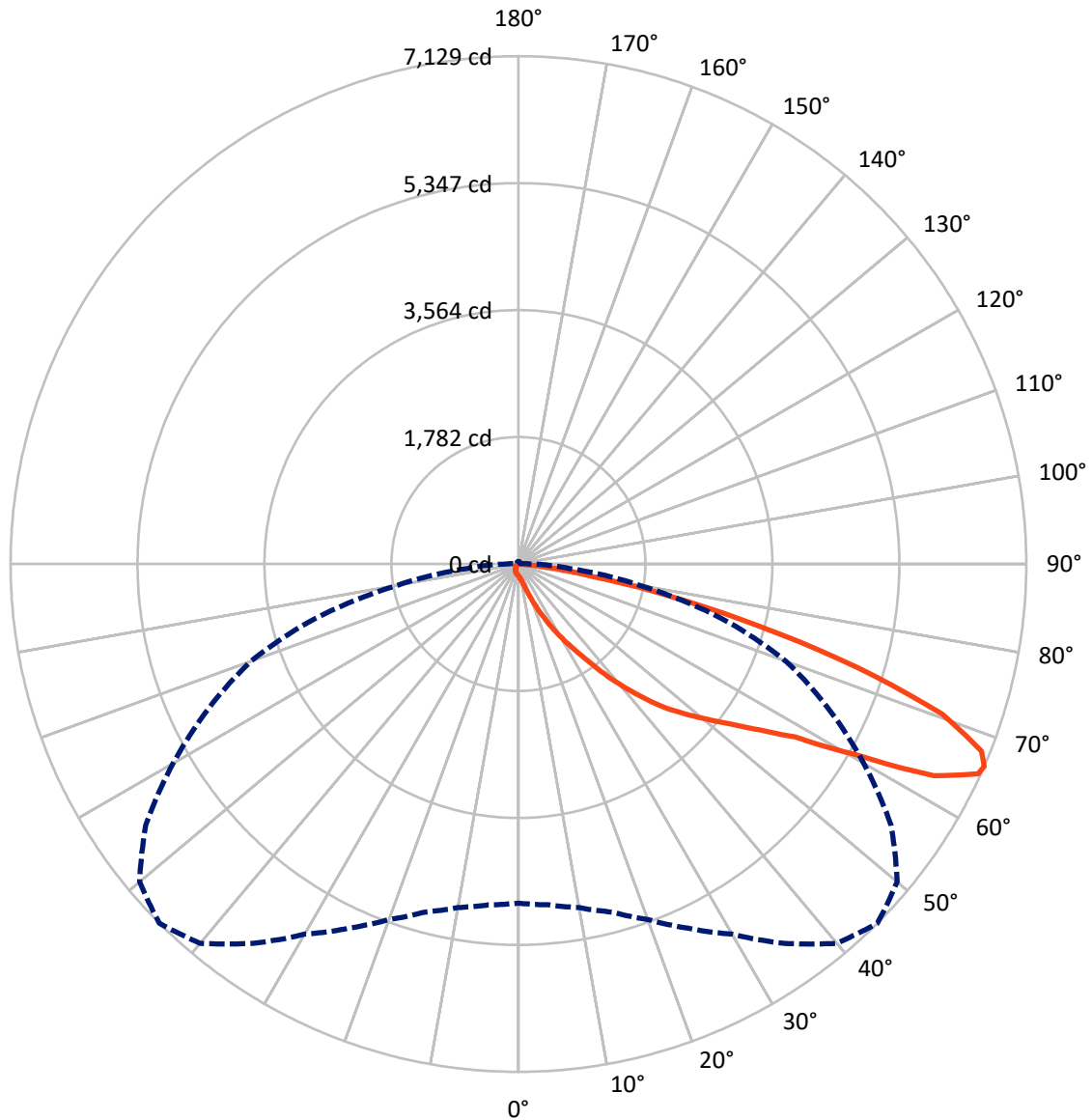
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.7 fc  
 Type IV - Short - Semi-Cutoff

REPORT NUMBER: P156313  
CATALOG NUMBER: AVM-F05-LED-E-U-T4-HSS-8030

### Luminous Intensity Polar Plot



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



REPORT NUMBER: P156313

CATALOG NUMBER: AVM-F05-LED-E-U-T4-HSS-8030

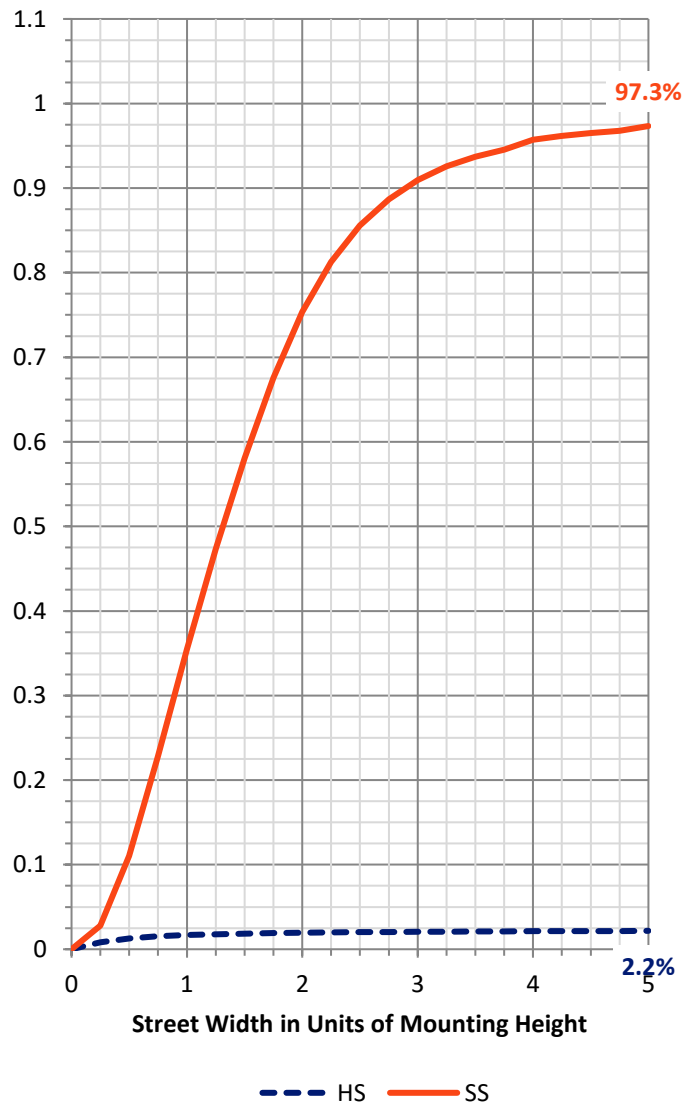
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	152.7	0.0	152.7
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	6584.9	0.0	6584.9
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	6737.6	0.0	6737.6
	% Fixture	100.0	0.0	100.0

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.9	0.3
10°-20°	68.7	1.0
20°-30°	201.3	3.0
30°-40°	470.2	7.0
40°-50°	883.2	13.1
50°-60°	1463.6	21.7
60°-70°	2323.5	34.5
70°-80°	1201.6	17.8
80°-90°	108.5	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°	6737.6	100.0
0°-180°	6737.6	100.0

**Coefficient of Utilization**



REPORT NUMBER: P156313

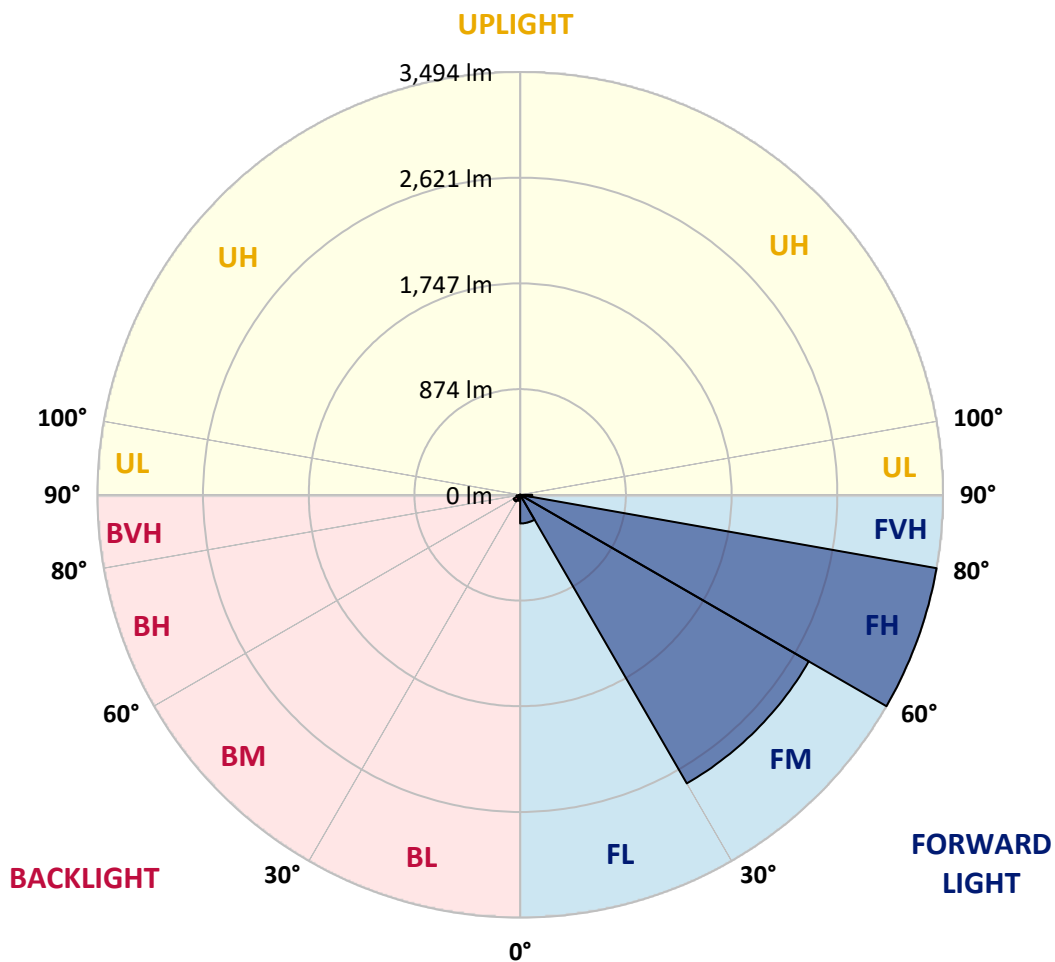
CATALOG NUMBER: AVM-F05-LED-E-U-T4-HSS-8030

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	237.1	3.5			
FM	(30°-60°)	2753.7	40.9			
FH	(60°-80°)	3494.2	51.9			G2/5000
FVH	(80°-90°)	100.0	1.5			G1/100
BL	(0°-30°)	49.9	0.7	B0/110		
BM	(30°-60°)	63.3	0.9	B0/220		
BH	(60°-80°)	30.9	0.5	B0/110		G0/110
BVH	(80°-90°)	8.6	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





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4
2.5°	182.3	182.3	182.3	182.3	181.2	180.0	178.8	177.7	176.5	176.5	175.3
5°	206.7	207.9	206.7	205.5	203.2	202.1	198.6	196.2	192.8	191.6	188.1
7.5°	240.4	239.2	240.4	236.9	232.2	231.1	226.4	220.6	216.0	209.0	204.4
10°	289.1	288.0	289.1	282.2	275.2	269.4	261.3	254.3	243.9	235.7	226.4
12.5°	366.9	366.9	364.6	355.3	346.0	333.3	320.5	305.4	286.8	270.6	255.5
15°	486.6	480.7	470.3	464.5	448.2	428.5	414.6	384.4	357.7	332.1	301.9
17.5°	630.5	618.9	610.8	598.0	577.1	551.6	528.4	484.2	457.5	415.7	372.8
20°	795.4	781.5	779.2	759.4	737.4	709.5	675.8	623.6	578.3	526.0	465.7
22.5°	963.8	966.1	956.9	942.9	920.9	888.3	836.1	788.5	732.7	666.5	588.7
25°	1151.9	1150.8	1142.6	1126.4	1110.1	1069.5	1027.7	982.4	916.2	831.4	738.5
27.5°	1328.4	1327.3	1307.5	1308.7	1277.3	1262.3	1221.6	1172.8	1092.7	1021.9	920.9
30°	1513.1	1501.5	1488.7	1479.4	1457.3	1430.6	1409.7	1351.7	1291.3	1207.7	1125.2
32.5°	1700.0	1687.3	1690.7	1679.1	1661.7	1635.0	1603.7	1556.0	1491.0	1409.7	1333.1
35°	1928.8	1923.0	1913.7	1917.2	1913.7	1894.0	1867.3	1804.5	1733.7	1655.9	1576.9
37.5°	2098.3	2092.5	2098.3	2122.7	2128.5	2141.3	2121.6	2090.2	2039.1	1954.3	1871.9
40°	2255.1	2256.3	2283.0	2313.2	2334.1	2375.9	2382.8	2370.1	2329.4	2251.6	2143.6
42.5°	2395.6	2413.0	2437.4	2487.3	2532.6	2591.9	2636.0	2643.0	2612.8	2561.7	2452.5
45°	2552.4	2567.5	2605.8	2665.0	2727.7	2800.9	2871.7	2908.9	2906.5	2870.6	2753.3
47.5°	2727.7	2747.5	2789.3	2838.0	2921.6	3004.1	3095.8	3162.0	3189.9	3140.0	3026.2
50°	2940.2	2948.4	2984.4	3047.1	3123.7	3218.9	3318.8	3415.2	3469.7	3423.3	3306.0
52.5°	3192.2	3194.5	3228.2	3286.3	3347.8	3452.3	3549.9	3683.4	3754.2	3728.7	3588.2
55°	3538.3	3531.3	3554.5	3604.4	3654.4	3755.4	3852.9	4003.9	4107.3	4109.6	3959.8
57.5°	4010.9	3994.6	4009.7	4049.2	4104.9	4199.0	4322.1	4455.6	4593.8	4584.5	4461.4
60°	4669.3	4663.5	4691.4	4757.5	4852.8	4950.3	5089.7	5269.6	5391.6	5433.4	5304.5
62.5°	5107.1	5123.3	5187.2	5289.4	5472.9	5674.9	5933.9	6209.1	6441.3	6545.8	6368.2
65°	4919.0	4945.7	5045.5	5196.5	5439.2	5742.3	6086.0	6537.7	6938.3	7097.4	6912.8
66°	4759.9	4802.8	4896.9	5057.1	5310.3	5641.2	6000.1	6499.4	6949.9	7128.8	6940.6
67.5°	4484.7	4514.8	4621.7	4799.3	5071.1	5398.5	5786.4	6313.6	6822.2	7011.5	6824.5
70°	3923.8	3935.4	4022.5	4173.4	4383.6	4719.2	5071.1	5578.5	6046.5	6312.4	6108.0
72.5°	2920.5	2936.7	3080.7	3355.9	3628.8	3819.3	4027.1	4433.6	4735.5	4984.0	4944.5
75°	1405.1	1412.1	1508.4	1910.2	2442.1	2669.7	2862.4	3177.1	3292.1	3499.9	3468.6
77.5°	890.7	905.8	968.5	1066.0	1367.9	1638.5	1790.6	1970.6	2004.3	2179.6	2077.4
80°	245.0	284.5	347.2	510.9	876.7	1045.1	1113.6	1106.6	1113.6	1060.2	1025.4
82.5°	49.9	48.8	59.2	91.7	386.7	608.5	657.3	559.7	556.2	535.3	552.7
85°	12.8	11.6	13.9	29.0	66.2	180.0	226.4	126.6	96.4	91.7	81.3
87.5°	3.5	3.5	3.5	5.8	7.0	9.3	12.8	9.3	7.0	7.0	7.0
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: P156313

CATALOG NUMBER: AVM-F05-LED-E-U-T4-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4
2.5°	174.2	174.2	173.0	171.9	171.9	170.7	169.5	168.4	167.2	166.1	164.9
5°	184.6	182.3	178.8	176.5	174.2	170.7	168.4	166.1	163.7	162.6	160.2
7.5°	198.6	192.8	188.1	181.2	176.5	171.9	167.2	163.7	160.2	157.9	155.6
10°	216.0	206.7	197.4	188.1	180.0	173.0	166.1	160.2	156.8	153.3	151.0
12.5°	238.1	224.1	211.3	197.4	184.6	174.2	164.9	157.9	153.3	149.8	146.3
15°	274.0	252.0	229.9	209.0	192.8	176.5	163.7	155.6	149.8	146.3	142.8
17.5°	330.9	291.5	256.6	227.6	200.9	180.0	163.7	153.3	146.3	141.7	138.2
20°	413.4	348.4	292.6	250.8	216.0	185.8	163.7	149.8	142.8	137.0	133.5
22.5°	510.9	429.7	353.0	283.3	233.4	193.9	163.7	146.3	138.2	133.5	128.9
25°	653.8	545.8	441.3	343.7	262.4	206.7	167.2	144.0	134.7	128.9	124.3
27.5°	821.0	690.9	560.9	423.8	306.6	225.3	171.9	141.7	131.2	124.3	119.6
30°	1011.4	867.4	708.3	530.7	364.6	249.7	180.0	140.5	126.6	119.6	113.8
32.5°	1218.1	1066.0	891.8	667.7	450.6	286.8	190.4	139.3	121.9	113.8	106.8
35°	1464.3	1322.6	1110.1	860.5	584.1	350.7	213.7	141.7	117.3	108.0	99.9
37.5°	1733.7	1582.8	1357.5	1064.8	716.5	422.7	231.1	138.2	109.2	99.9	91.7
40°	2005.4	1832.4	1603.7	1279.7	884.9	510.9	253.1	134.7	101.0	91.7	83.6
42.5°	2270.2	2087.9	1839.4	1500.3	1062.5	615.4	281.0	134.7	95.2	83.6	75.5
45°	2547.7	2328.3	2056.5	1711.6	1239.0	735.1	320.5	133.5	88.3	76.6	67.4
47.5°	2810.2	2550.1	2237.7	1897.4	1428.3	866.3	365.8	134.7	82.4	69.7	61.5
50°	3058.7	2760.2	2423.5	2063.5	1609.5	1007.9	421.5	135.9	76.6	63.9	55.7
52.5°	3330.4	2999.4	2623.2	2234.2	1788.3	1150.8	486.6	138.2	70.8	58.1	51.1
55°	3667.2	3300.2	2869.4	2443.2	1977.6	1294.8	549.3	140.5	65.0	53.4	46.4
57.5°	4152.5	3734.5	3268.9	2756.8	2228.4	1458.5	614.3	146.3	60.4	49.9	43.0
60°	4942.2	4444.0	3906.4	3302.5	2603.5	1680.3	708.3	159.1	54.6	45.3	40.6
62.5°	5892.1	5292.9	4608.9	3876.2	2956.5	1830.1	771.1	173.0	49.9	41.8	38.3
65°	6370.5	5615.7	4827.2	4036.4	3001.8	1786.0	745.5	168.4	44.1	37.2	32.5
66°	6384.4	5598.3	4797.0	4001.6	2955.3	1732.5	721.1	166.1	43.0	36.0	30.2
67.5°	6252.0	5448.5	4636.8	3843.7	2818.3	1629.2	677.0	157.9	39.5	32.5	26.7
70°	5598.3	4815.6	4071.3	3338.5	2424.6	1372.6	567.8	139.3	34.8	29.0	24.4
72.5°	4462.6	3825.1	3198.0	2626.7	1884.7	1030.0	448.2	113.8	30.2	25.5	20.9
75°	3116.7	2593.0	2115.8	1708.2	1184.5	616.6	290.3	80.1	25.5	20.9	17.4
77.5°	1739.5	1379.5	1042.8	794.3	472.6	192.8	96.4	40.6	22.1	16.3	13.9
80°	884.9	656.1	499.3	368.1	218.3	99.9	48.8	26.7	17.4	12.8	11.6
82.5°	514.4	377.4	300.8	238.1	149.8	75.5	39.5	19.7	11.6	9.3	10.5
85°	115.0	152.1	128.9	109.2	80.1	47.6	27.9	12.8	8.1	8.1	9.3
87.5°	9.3	12.8	11.6	15.1	16.3	15.1	11.6	7.0	5.8	7.0	7.0
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: P156313

CATALOG NUMBER: AVM-F05-LED-E-U-T4-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4	168.4
2.5°	163.7	162.6	162.6	161.4	160.2	160.2	160.2	159.1	160.2	160.2	160.2
5°	159.1	157.9	156.8	155.6	154.4	153.3	153.3	152.1	152.1	152.1	153.3
7.5°	154.4	152.1	151.0	148.6	147.5	146.3	146.3	145.2	145.2	145.2	145.2
10°	148.6	146.3	144.0	142.8	141.7	139.3	139.3	138.2	137.0	137.0	137.0
12.5°	144.0	141.7	139.3	137.0	134.7	133.5	132.4	131.2	130.1	130.1	130.1
15°	139.3	135.9	133.5	131.2	128.9	126.6	125.4	124.3	123.1	121.9	121.9
17.5°	134.7	131.2	127.7	125.4	123.1	120.8	119.6	116.1	116.1	115.0	115.0
20°	128.9	125.4	121.9	119.6	117.3	115.0	112.6	110.3	108.0	106.8	106.8
22.5°	124.3	120.8	117.3	113.8	110.3	106.8	104.5	102.2	101.0	99.9	98.7
25°	119.6	115.0	110.3	106.8	103.3	99.9	97.5	95.2	92.9	91.7	91.7
27.5°	113.8	109.2	104.5	99.9	96.4	92.9	90.6	87.1	85.9	84.8	83.6
30°	108.0	102.2	97.5	92.9	89.4	84.8	82.4	80.1	77.8	77.8	76.6
32.5°	101.0	95.2	90.6	85.9	81.3	77.8	75.5	73.2	72.0	69.7	69.7
35°	94.1	88.3	82.4	77.8	74.3	70.8	68.5	66.2	63.9	62.7	62.7
37.5°	85.9	80.1	75.5	70.8	67.4	63.9	61.5	59.2	58.1	56.9	55.7
40°	76.6	70.8	67.4	63.9	60.4	58.1	54.6	52.3	51.1	49.9	48.8
42.5°	68.5	62.7	60.4	58.1	54.6	52.3	48.8	46.4	44.1	43.0	41.8
45°	61.5	56.9	54.6	52.3	48.8	45.3	43.0	40.6	38.3	37.2	37.2
47.5°	54.6	51.1	48.8	46.4	43.0	40.6	37.2	36.0	33.7	33.7	33.7
50°	49.9	46.4	44.1	41.8	39.5	36.0	33.7	32.5	31.4	31.4	32.5
52.5°	46.4	43.0	40.6	38.3	36.0	33.7	31.4	30.2	30.2	31.4	32.5
55°	43.0	39.5	37.2	34.8	32.5	31.4	29.0	29.0	30.2	31.4	32.5
57.5°	40.6	36.0	33.7	32.5	30.2	29.0	29.0	29.0	30.2	31.4	33.7
60°	37.2	32.5	30.2	30.2	27.9	27.9	27.9	29.0	30.2	32.5	33.7
62.5°	32.5	29.0	27.9	27.9	26.7	26.7	27.9	29.0	31.4	32.5	33.7
65°	27.9	25.5	25.5	25.5	25.5	26.7	27.9	29.0	30.2	32.5	33.7
66°	25.5	24.4	24.4	25.5	25.5	26.7	27.9	29.0	30.2	31.4	32.5
67.5°	24.4	23.2	23.2	24.4	25.5	25.5	26.7	29.0	30.2	31.4	31.4
70°	20.9	20.9	20.9	23.2	24.4	25.5	26.7	27.9	29.0	30.2	31.4
72.5°	18.6	18.6	19.7	20.9	23.2	24.4	25.5	26.7	29.0	30.2	30.2
75°	16.3	16.3	18.6	19.7	22.1	23.2	25.5	26.7	27.9	29.0	29.0
77.5°	13.9	15.1	17.4	19.7	20.9	23.2	24.4	25.5	26.7	27.9	27.9
80°	12.8	15.1	17.4	18.6	19.7	20.9	22.1	24.4	25.5	26.7	27.9
82.5°	12.8	13.9	16.3	17.4	18.6	20.9	22.1	23.2	24.4	25.5	26.7
85°	10.5	12.8	13.9	16.3	17.4	19.7	20.9	20.9	22.1	23.2	24.4
87.5°	8.1	9.3	9.3	11.6	12.8	15.1	17.4	17.4	18.6	19.7	20.9
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: P156313

CATALOG NUMBER: AVM-F05-LED-E-U-T4-HSS-8030

**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	168.4	168.4	168.4	168.4
2.5°	160.2	161.4	161.4	161.4
5°	153.3	153.3	153.3	153.3
7.5°	145.2	145.2	145.2	145.2
10°	137.0	137.0	138.2	137.0
12.5°	130.1	128.9	128.9	128.9
15°	121.9	121.9	120.8	121.9
17.5°	113.8	113.8	112.6	112.6
20°	105.7	105.7	105.7	105.7
22.5°	98.7	97.5	97.5	97.5
25°	90.6	90.6	90.6	90.6
27.5°	83.6	83.6	83.6	83.6
30°	76.6	76.6	75.5	75.5
32.5°	69.7	69.7	69.7	69.7
35°	62.7	62.7	61.5	61.5
37.5°	54.6	54.6	54.6	54.6
40°	47.6	47.6	47.6	47.6
42.5°	41.8	41.8	40.6	40.6
45°	36.0	36.0	36.0	36.0
47.5°	33.7	33.7	33.7	33.7
50°	32.5	33.7	33.7	33.7
52.5°	33.7	33.7	33.7	33.7
55°	33.7	34.8	34.8	34.8
57.5°	33.7	34.8	34.8	36.0
60°	34.8	36.0	36.0	36.0
62.5°	34.8	36.0	36.0	36.0
65°	33.7	34.8	34.8	34.8
66°	33.7	33.7	33.7	34.8
67.5°	32.5	33.7	33.7	33.7
70°	31.4	32.5	32.5	33.7
72.5°	31.4	32.5	32.5	32.5
75°	30.2	30.2	31.4	31.4
77.5°	29.0	29.0	30.2	30.2
80°	27.9	29.0	29.0	29.0
82.5°	26.7	27.9	27.9	27.9
85°	24.4	25.5	25.5	25.5
87.5°	20.9	20.9	22.1	22.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)