

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: P156304

Luminaire Tested: **AVM-F04-LED-E-U-T4-HSS-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156304  
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-7030  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD  
Light Source: (28) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5833 lumens  
Efficiency: N/A  
Efficacy: 57.1 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

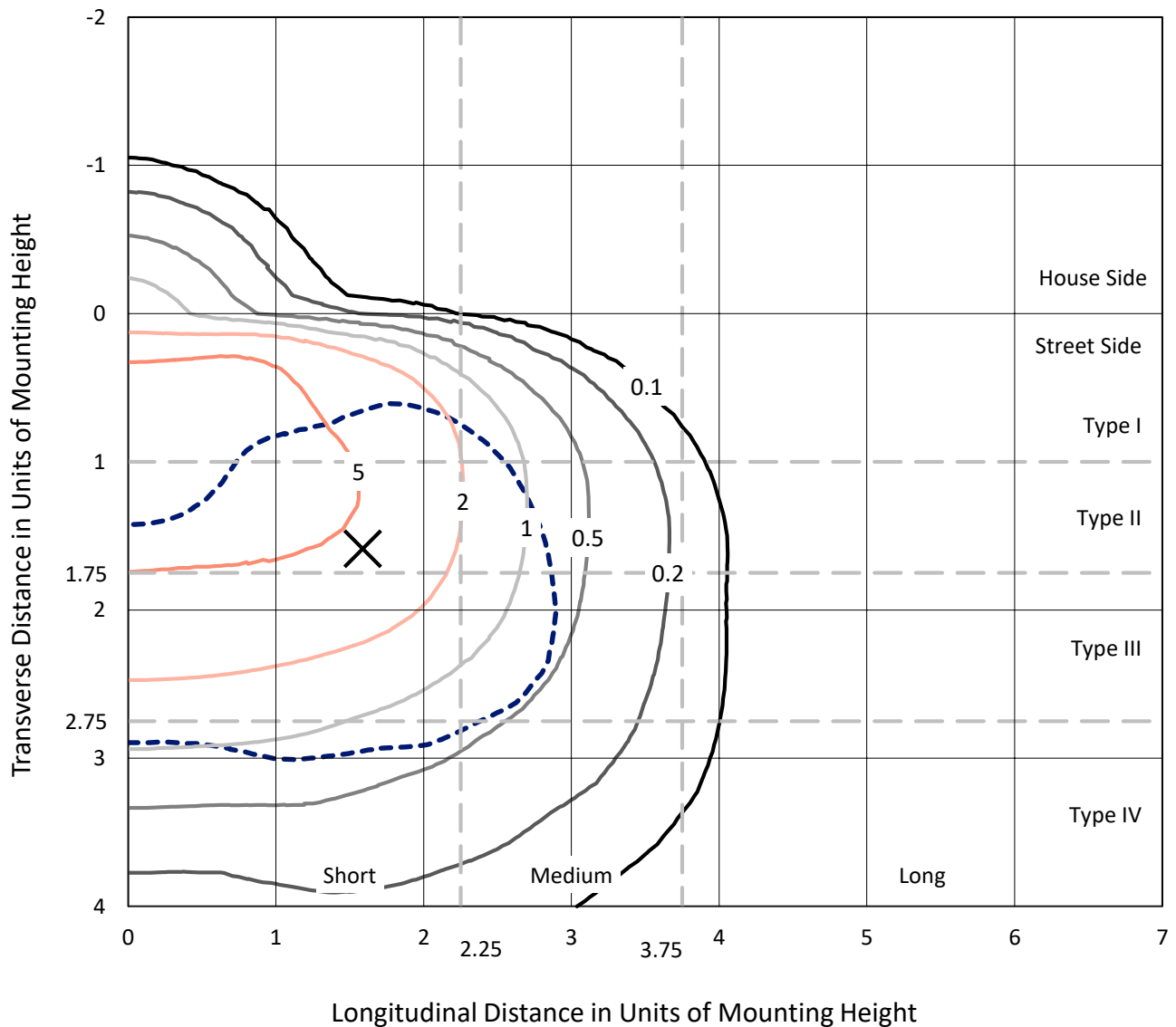
Input Watts (W): 102.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

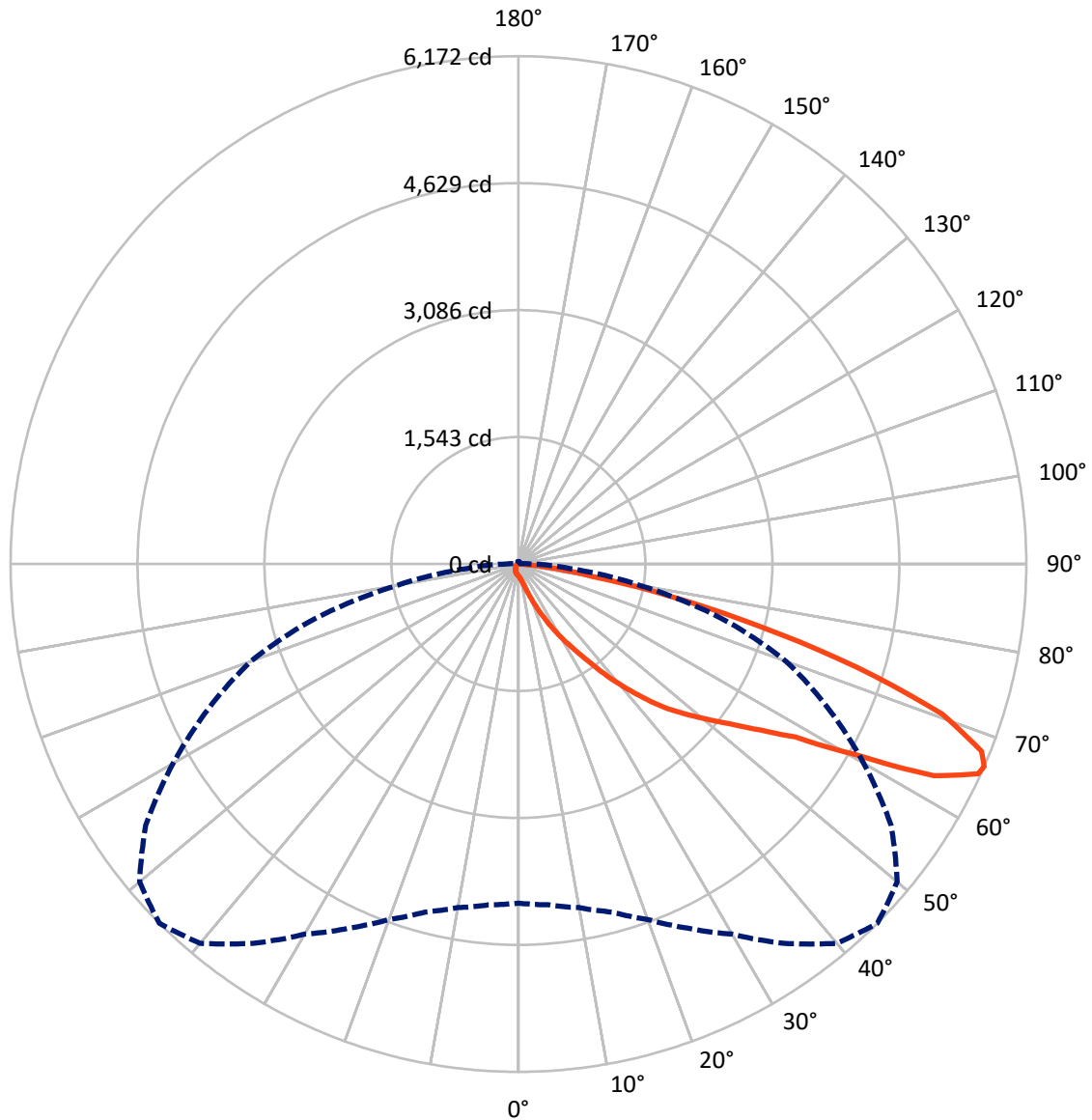
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.3 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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



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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	132.2	0.0	132.2
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	5700.8	0.0	5700.8
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	5833.0	0.0	5833.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.7	0.3
10°-20°	59.5	1.0
20°-30°	174.3	3.0
30°-40°	407.1	7.0
40°-50°	764.6	13.1
50°-60°	1267.1	21.7
60°-70°	2011.5	34.5
70°-80°	1040.3	17.8
80°-90°	94.0	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°	5833.0	100.0
0°-180°	5833.0	100.0



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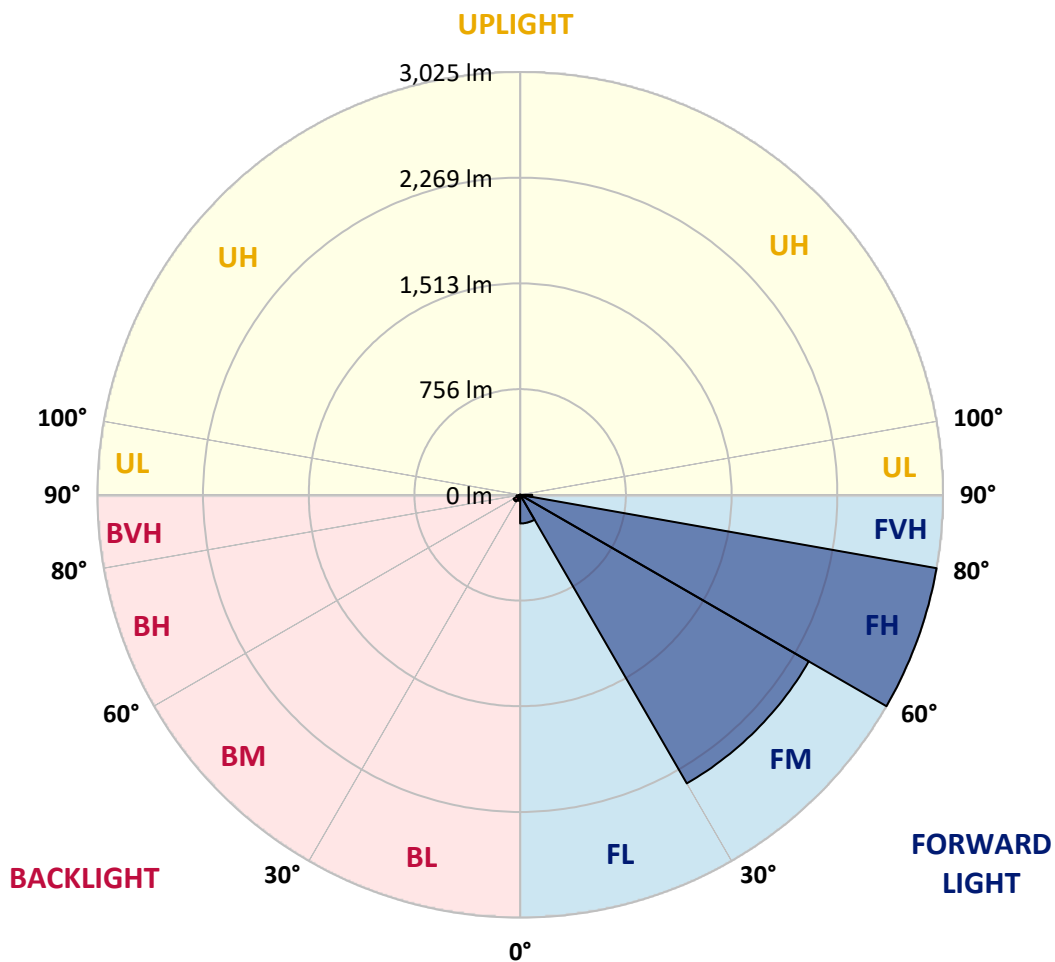
CATALOG NUMBER: AVM-F04-LED-E-U-T4-HSS-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	205.3	3.5			
FM	(30°-60°)	2384.0	40.9			
FH	(60°-80°)	3025.1	51.9			G2/5000
FVH	(80°-90°)	86.5	1.5			G1/100
BL	(0°-30°)	43.2	0.7	B0/110		
BM	(30°-60°)	54.8	0.9	B0/220		
BH	(60°-80°)	26.8	0.5	B0/110		G0/110
BVH	(80°-90°)	7.4	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8
2.5°	157.8	157.8	157.8	157.8	156.8	155.8	154.8	153.8	152.8	152.8	151.8
5°	178.9	180.0	178.9	177.9	175.9	174.9	171.9	169.9	166.9	165.9	162.9
7.5°	208.1	207.1	208.1	205.1	201.1	200.1	196.0	191.0	187.0	181.0	176.9
10°	250.3	249.3	250.3	244.3	238.3	233.2	226.2	220.2	211.1	204.1	196.0
12.5°	317.7	317.7	315.7	307.6	299.6	288.5	277.5	264.4	248.3	234.2	221.2
15°	421.2	416.2	407.2	402.1	388.1	371.0	358.9	332.8	309.6	287.5	261.4
17.5°	545.9	535.8	528.8	517.7	499.6	477.5	457.4	419.2	396.1	359.9	322.7
20°	688.6	676.6	674.6	657.5	638.4	614.3	585.1	539.9	500.7	455.4	403.1
22.5°	834.4	836.4	828.4	816.3	797.2	769.1	723.8	682.6	634.4	577.1	509.7
25°	997.3	996.3	989.2	975.2	961.1	925.9	889.7	850.5	793.2	719.8	639.4
27.5°	1150.1	1149.1	1132.0	1133.0	1105.9	1092.8	1057.6	1015.4	946.0	884.7	797.2
30°	1309.9	1299.9	1288.8	1280.8	1261.7	1238.6	1220.5	1170.2	1117.9	1045.5	974.2
32.5°	1471.8	1460.7	1463.8	1453.7	1438.6	1415.5	1388.4	1347.1	1290.8	1220.5	1154.1
35°	1669.8	1664.8	1656.8	1659.8	1656.8	1639.7	1616.6	1562.3	1500.9	1433.6	1365.2
37.5°	1816.6	1811.6	1816.6	1837.7	1842.8	1853.8	1836.7	1809.6	1765.4	1692.0	1620.6
40°	1952.3	1953.3	1976.5	2002.6	2020.7	2056.9	2062.9	2051.9	2016.7	1949.3	1855.8
42.5°	2074.0	2089.1	2110.2	2153.4	2192.6	2243.9	2282.1	2288.1	2262.0	2217.7	2123.2
45°	2209.7	2222.8	2255.9	2307.2	2361.5	2424.8	2486.2	2518.3	2516.3	2485.2	2383.6
47.5°	2361.5	2378.6	2414.8	2457.0	2529.4	2600.8	2680.2	2737.5	2761.6	2718.4	2619.9
50°	2545.5	2552.5	2583.7	2638.0	2704.3	2786.8	2873.2	2956.7	3003.9	2963.7	2862.2
52.5°	2763.6	2765.6	2794.8	2845.1	2898.4	2988.8	3073.3	3188.9	3250.2	3228.1	3106.5
55°	3063.2	3057.2	3077.3	3120.5	3163.8	3251.2	3335.7	3466.4	3555.8	3557.8	3428.2
57.5°	3472.4	3458.3	3471.4	3505.6	3553.8	3635.3	3741.8	3857.4	3977.1	3969.0	3862.5
60°	4042.4	4037.4	4061.5	4118.8	4201.3	4285.7	4406.3	4562.2	4667.7	4703.9	4592.3
62.5°	4421.4	4435.5	4490.8	4579.3	4738.1	4913.0	5137.2	5375.5	5576.5	5667.0	5513.2
65°	4258.6	4281.7	4368.1	4498.8	4708.9	4971.3	5268.9	5660.0	6006.8	6144.5	5984.7
66°	4120.8	4158.0	4239.5	4378.2	4597.3	4883.9	5194.5	5626.8	6016.9	6171.7	6008.8
67.5°	3882.6	3908.7	4001.2	4155.0	4390.3	4673.8	5009.5	5466.0	5906.3	6070.2	5908.3
70°	3397.0	3407.0	3482.4	3613.1	3795.1	4085.6	4390.3	4829.6	5234.7	5464.9	5288.0
72.5°	2528.4	2542.5	2667.1	2905.4	3141.6	3306.5	3486.5	3838.3	4099.7	4314.9	4280.7
75°	1216.4	1222.5	1305.9	1653.8	2114.2	2311.2	2478.1	2750.6	2850.1	3030.0	3002.9
77.5°	771.1	784.2	838.4	922.9	1184.3	1418.5	1550.2	1706.0	1735.2	1887.0	1798.5
80°	212.1	246.3	300.6	442.3	759.0	904.8	964.1	958.1	964.1	917.9	887.7
82.5°	43.2	42.2	51.3	79.4	334.8	526.8	569.0	484.6	481.6	463.5	478.5
85°	11.1	10.1	12.1	25.1	57.3	155.8	196.0	109.6	83.4	79.4	70.4
87.5°	3.0	3.0	3.0	5.0	6.0	8.0	11.1	8.0	6.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8
2.5°	150.8	150.8	149.8	148.8	148.8	147.8	146.8	145.8	144.8	143.8	142.8
5°	159.8	157.8	154.8	152.8	150.8	147.8	145.8	143.8	141.8	140.7	138.7
7.5°	171.9	166.9	162.9	156.8	152.8	148.8	144.8	141.8	138.7	136.7	134.7
10°	187.0	178.9	170.9	162.9	155.8	149.8	143.8	138.7	135.7	132.7	130.7
12.5°	206.1	194.0	183.0	170.9	159.8	150.8	142.8	136.7	132.7	129.7	126.7
15°	237.3	218.2	199.1	181.0	166.9	152.8	141.8	134.7	129.7	126.7	123.7
17.5°	286.5	252.3	222.2	197.0	173.9	155.8	141.8	132.7	126.7	122.6	119.6
20°	357.9	301.6	253.3	217.2	187.0	160.9	141.8	129.7	123.7	118.6	115.6
22.5°	442.3	372.0	305.6	245.3	202.1	167.9	141.8	126.7	119.6	115.6	111.6
25°	566.0	472.5	382.0	297.6	227.2	178.9	144.8	124.7	116.6	111.6	107.6
27.5°	710.8	598.2	485.6	366.9	265.4	195.0	148.8	122.6	113.6	107.6	103.5
30°	875.6	751.0	613.2	459.4	315.7	216.1	155.8	121.6	109.6	103.5	98.5
32.5°	1054.6	922.9	772.1	578.1	390.1	248.3	164.9	120.6	105.6	98.5	92.5
35°	1267.7	1145.1	961.1	744.9	505.7	303.6	185.0	122.6	101.5	93.5	86.5
37.5°	1500.9	1370.3	1175.2	921.9	620.3	365.9	200.1	119.6	94.5	86.5	79.4
40°	1736.2	1586.4	1388.4	1107.9	766.1	442.3	219.2	116.6	87.5	79.4	72.4
42.5°	1965.4	1807.6	1592.4	1298.9	919.9	532.8	243.3	116.6	82.4	72.4	65.3
45°	2205.7	2015.7	1780.4	1481.8	1072.7	636.4	277.5	115.6	76.4	66.4	58.3
47.5°	2432.9	2207.7	1937.3	1642.7	1236.5	750.0	316.7	116.6	71.4	60.3	53.3
50°	2648.0	2389.7	2098.1	1786.5	1393.4	872.6	364.9	117.6	66.4	55.3	48.3
52.5°	2883.3	2596.8	2271.0	1934.2	1548.2	996.3	421.2	119.6	61.3	50.3	44.2
55°	3174.8	2857.1	2484.2	2115.2	1712.1	1120.9	475.5	121.6	56.3	46.2	40.2
57.5°	3595.0	3233.1	2830.0	2386.6	1929.2	1262.7	531.8	126.7	52.3	43.2	37.2
60°	4278.7	3847.4	3381.9	2859.1	2253.9	1454.7	613.2	137.7	47.3	39.2	35.2
62.5°	5101.0	4582.3	3990.1	3355.8	2559.6	1584.4	667.5	149.8	43.2	36.2	33.2
65°	5515.2	4861.7	4179.1	3494.5	2598.8	1546.2	645.4	145.8	38.2	32.2	28.1
66°	5527.3	4846.7	4153.0	3464.3	2558.6	1499.9	624.3	143.8	37.2	31.2	26.1
67.5°	5412.7	4717.0	4014.3	3327.6	2439.9	1410.5	586.1	136.7	34.2	28.1	23.1
70°	4846.7	4169.1	3524.7	2890.3	2099.1	1188.3	491.6	120.6	30.2	25.1	21.1
72.5°	3863.5	3311.5	2768.7	2274.0	1631.6	891.7	388.1	98.5	26.1	22.1	18.1
75°	2698.3	2244.9	1831.7	1478.8	1025.4	533.8	251.3	69.4	22.1	18.1	15.1
77.5°	1506.0	1194.3	902.8	687.6	409.2	166.9	83.4	35.2	19.1	14.1	12.1
80°	766.1	568.0	432.3	318.7	189.0	86.5	42.2	23.1	15.1	11.1	10.1
82.5°	445.4	326.7	260.4	206.1	129.7	65.3	34.2	17.1	10.1	8.0	9.0
85°	99.5	131.7	111.6	94.5	69.4	41.2	24.1	11.1	7.0	7.0	8.0
87.5°	8.0	11.1	10.1	13.1	14.1	13.1	10.1	6.0	5.0	6.0	6.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0





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**CANDELA DISTRIBUTION (continued):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8	145.8
2.5°	141.8	140.7	140.7	139.7	138.7	138.7	138.7	137.7	138.7	138.7	138.7
5°	137.7	136.7	135.7	134.7	133.7	132.7	132.7	131.7	131.7	131.7	132.7
7.5°	133.7	131.7	130.7	128.7	127.7	126.7	126.7	125.7	125.7	125.7	125.7
10°	128.7	126.7	124.7	123.7	122.6	120.6	120.6	119.6	118.6	118.6	118.6
12.5°	124.7	122.6	120.6	118.6	116.6	115.6	114.6	113.6	112.6	112.6	112.6
15°	120.6	117.6	115.6	113.6	111.6	109.6	108.6	107.6	106.6	105.6	105.6
17.5°	116.6	113.6	110.6	108.6	106.6	104.6	103.5	100.5	100.5	99.5	99.5
20°	111.6	108.6	105.6	103.5	101.5	99.5	97.5	95.5	93.5	92.5	92.5
22.5°	107.6	104.6	101.5	98.5	95.5	92.5	90.5	88.5	87.5	86.5	85.5
25°	103.5	99.5	95.5	92.5	89.5	86.5	84.4	82.4	80.4	79.4	79.4
27.5°	98.5	94.5	90.5	86.5	83.4	80.4	78.4	75.4	74.4	73.4	72.4
30°	93.5	88.5	84.4	80.4	77.4	73.4	71.4	69.4	67.4	67.4	66.4
32.5°	87.5	82.4	78.4	74.4	70.4	67.4	65.3	63.3	62.3	60.3	60.3
35°	81.4	76.4	71.4	67.4	64.3	61.3	59.3	57.3	55.3	54.3	54.3
37.5°	74.4	69.4	65.3	61.3	58.3	55.3	53.3	51.3	50.3	49.3	48.3
40°	66.4	61.3	58.3	55.3	52.3	50.3	47.3	45.2	44.2	43.2	42.2
42.5°	59.3	54.3	52.3	50.3	47.3	45.2	42.2	40.2	38.2	37.2	36.2
45°	53.3	49.3	47.3	45.2	42.2	39.2	37.2	35.2	33.2	32.2	32.2
47.5°	47.3	44.2	42.2	40.2	37.2	35.2	32.2	31.2	29.2	29.2	29.2
50°	43.2	40.2	38.2	36.2	34.2	31.2	29.2	28.1	27.1	27.1	28.1
52.5°	40.2	37.2	35.2	33.2	31.2	29.2	27.1	26.1	26.1	27.1	28.1
55°	37.2	34.2	32.2	30.2	28.1	27.1	25.1	25.1	26.1	27.1	28.1
57.5°	35.2	31.2	29.2	28.1	26.1	25.1	25.1	25.1	26.1	27.1	29.2
60°	32.2	28.1	26.1	26.1	24.1	24.1	24.1	25.1	26.1	28.1	29.2
62.5°	28.1	25.1	24.1	24.1	23.1	23.1	24.1	25.1	27.1	28.1	29.2
65°	24.1	22.1	22.1	22.1	22.1	23.1	24.1	25.1	26.1	28.1	29.2
66°	22.1	21.1	21.1	22.1	22.1	23.1	24.1	25.1	26.1	27.1	28.1
67.5°	21.1	20.1	20.1	21.1	22.1	22.1	23.1	25.1	26.1	27.1	27.1
70°	18.1	18.1	18.1	20.1	21.1	22.1	23.1	24.1	25.1	26.1	27.1
72.5°	16.1	16.1	17.1	18.1	20.1	21.1	22.1	23.1	25.1	26.1	26.1
75°	14.1	14.1	16.1	17.1	19.1	20.1	22.1	23.1	24.1	25.1	25.1
77.5°	12.1	13.1	15.1	17.1	18.1	20.1	21.1	22.1	23.1	24.1	24.1
80°	11.1	13.1	15.1	16.1	17.1	18.1	19.1	21.1	22.1	23.1	24.1
82.5°	11.1	12.1	14.1	15.1	16.1	18.1	19.1	20.1	21.1	22.1	23.1
85°	9.0	11.1	12.1	14.1	15.1	17.1	18.1	18.1	19.1	20.1	21.1
87.5°	7.0	8.0	8.0	10.1	11.1	13.1	15.1	15.1	16.1	17.1	18.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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**CANDELA DISTRIBUTION (continued):**

	165°	170°	175°	180°
0°	145.8	145.8	145.8	145.8
2.5°	138.7	139.7	139.7	139.7
5°	132.7	132.7	132.7	132.7
7.5°	125.7	125.7	125.7	125.7
10°	118.6	118.6	119.6	118.6
12.5°	112.6	111.6	111.6	111.6
15°	105.6	105.6	104.6	105.6
17.5°	98.5	98.5	97.5	97.5
20°	91.5	91.5	91.5	91.5
22.5°	85.5	84.4	84.4	84.4
25°	78.4	78.4	78.4	78.4
27.5°	72.4	72.4	72.4	72.4
30°	66.4	66.4	65.3	65.3
32.5°	60.3	60.3	60.3	60.3
35°	54.3	54.3	53.3	53.3
37.5°	47.3	47.3	47.3	47.3
40°	41.2	41.2	41.2	41.2
42.5°	36.2	36.2	35.2	35.2
45°	31.2	31.2	31.2	31.2
47.5°	29.2	29.2	29.2	29.2
50°	28.1	29.2	29.2	29.2
52.5°	29.2	29.2	29.2	29.2
55°	29.2	30.2	30.2	30.2
57.5°	29.2	30.2	30.2	31.2
60°	30.2	31.2	31.2	31.2
62.5°	30.2	31.2	31.2	31.2
65°	29.2	30.2	30.2	30.2
66°	29.2	29.2	29.2	30.2
67.5°	28.1	29.2	29.2	29.2
70°	27.1	28.1	28.1	29.2
72.5°	27.1	28.1	28.1	28.1
75°	26.1	26.1	27.1	27.1
77.5°	25.1	25.1	26.1	26.1
80°	24.1	25.1	25.1	25.1
82.5°	23.1	24.1	24.1	24.1
85°	21.1	22.1	22.1	22.1
87.5°	18.1	18.1	19.1	19.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)