

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: P156291

Luminaire Tested: **AVM-E03-LED-E-U-T4-HSS-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156291  
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-E03-LED-E-U-T4-HSS-7050  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD  
Light Source: (63) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5953.6 lumens  
Efficiency: N/A  
Efficacy: 79.2 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G2

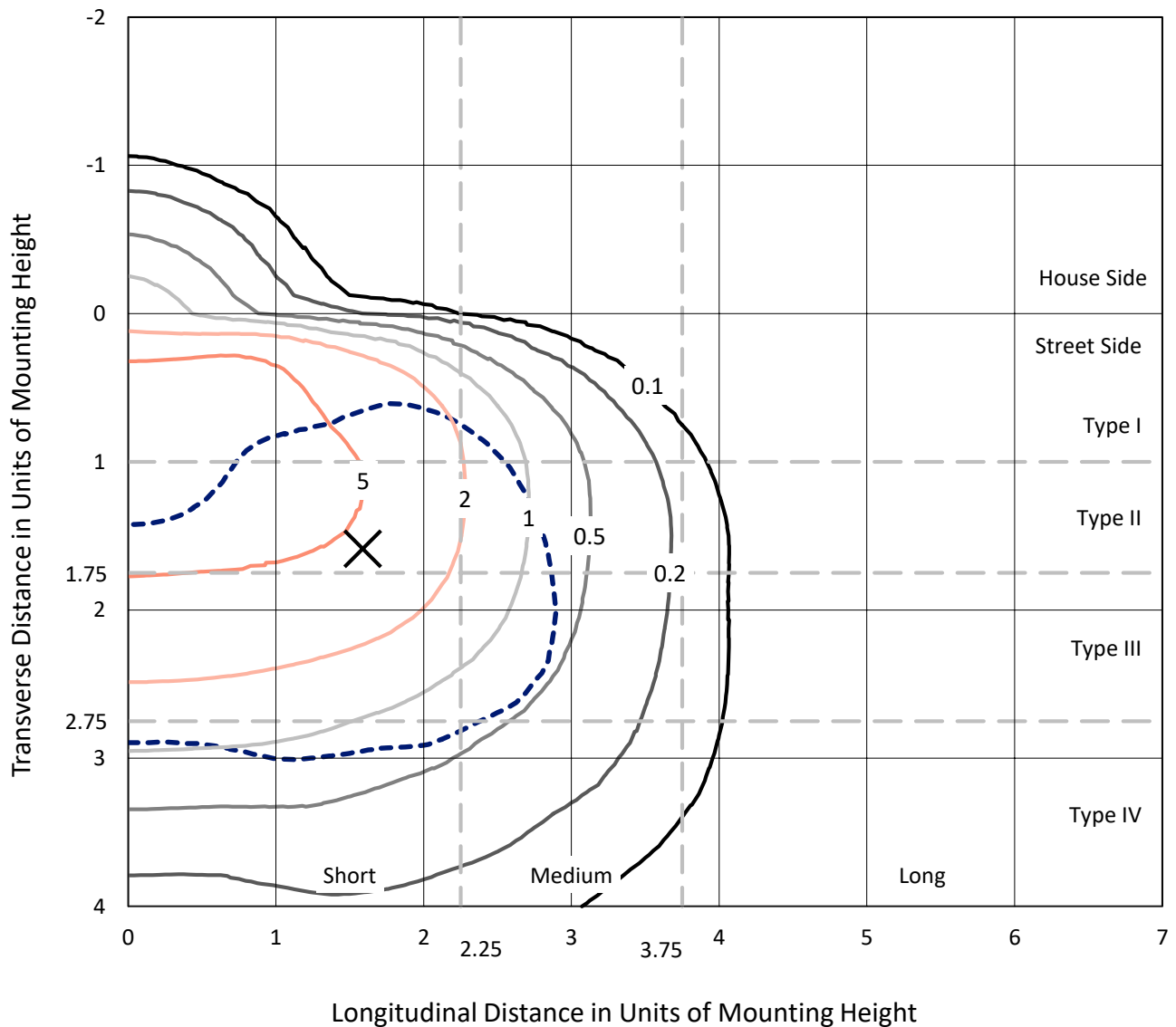
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

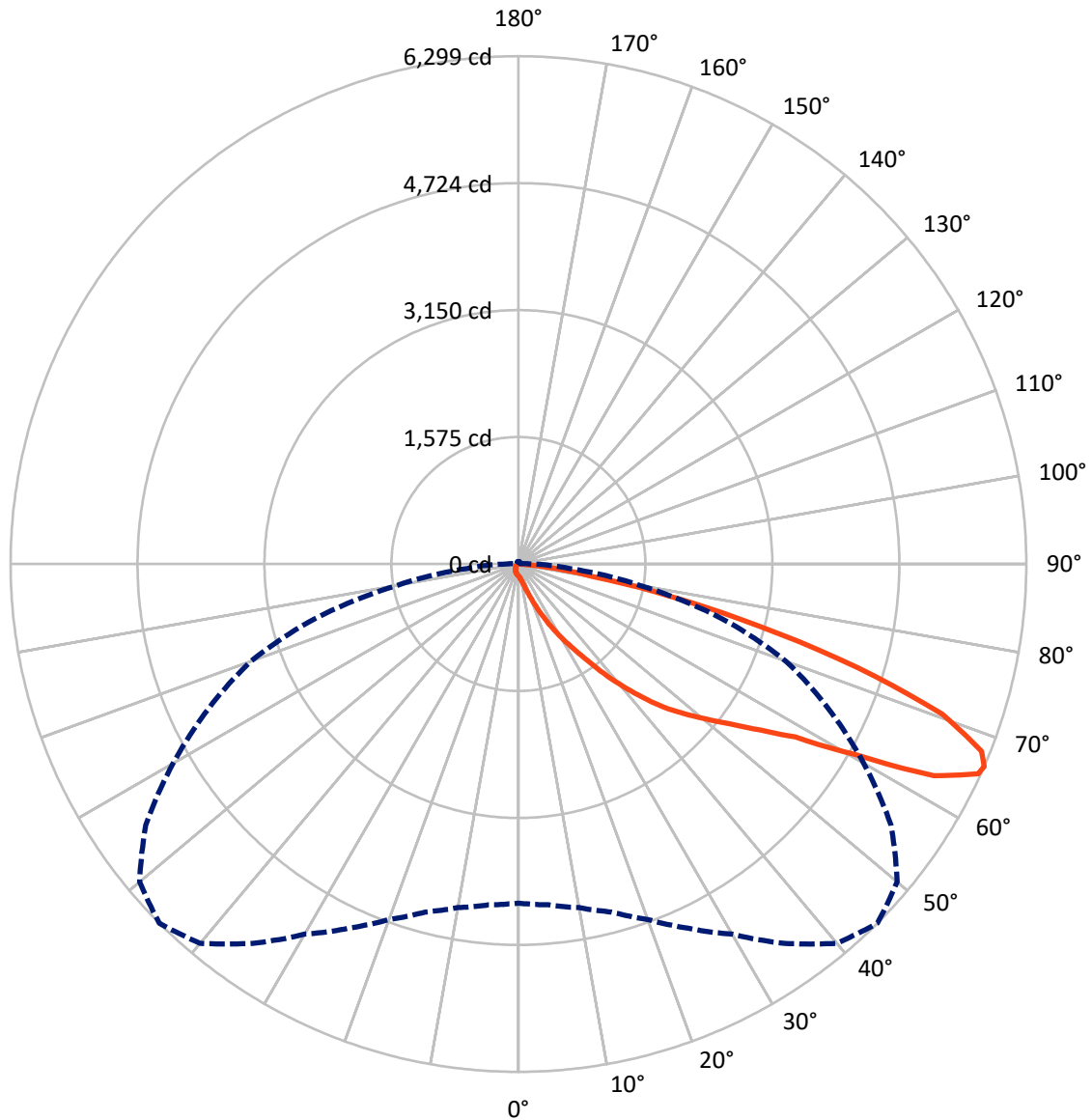
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.4 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	134.9	0.0	134.9
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	5818.6	0.0	5818.6
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	5953.6	0.0	5953.6
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	15.0	0.3
10°-20°	60.7	1.0
20°-30°	177.9	3.0
30°-40°	415.5	7.0
40°-50°	780.4	13.1
50°-60°	1293.3	21.7
60°-70°	2053.1	34.5
70°-80°	1061.8	17.8
80°-90°	95.9	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°	5953.6	100.0
0°-180°	5953.6	100.0



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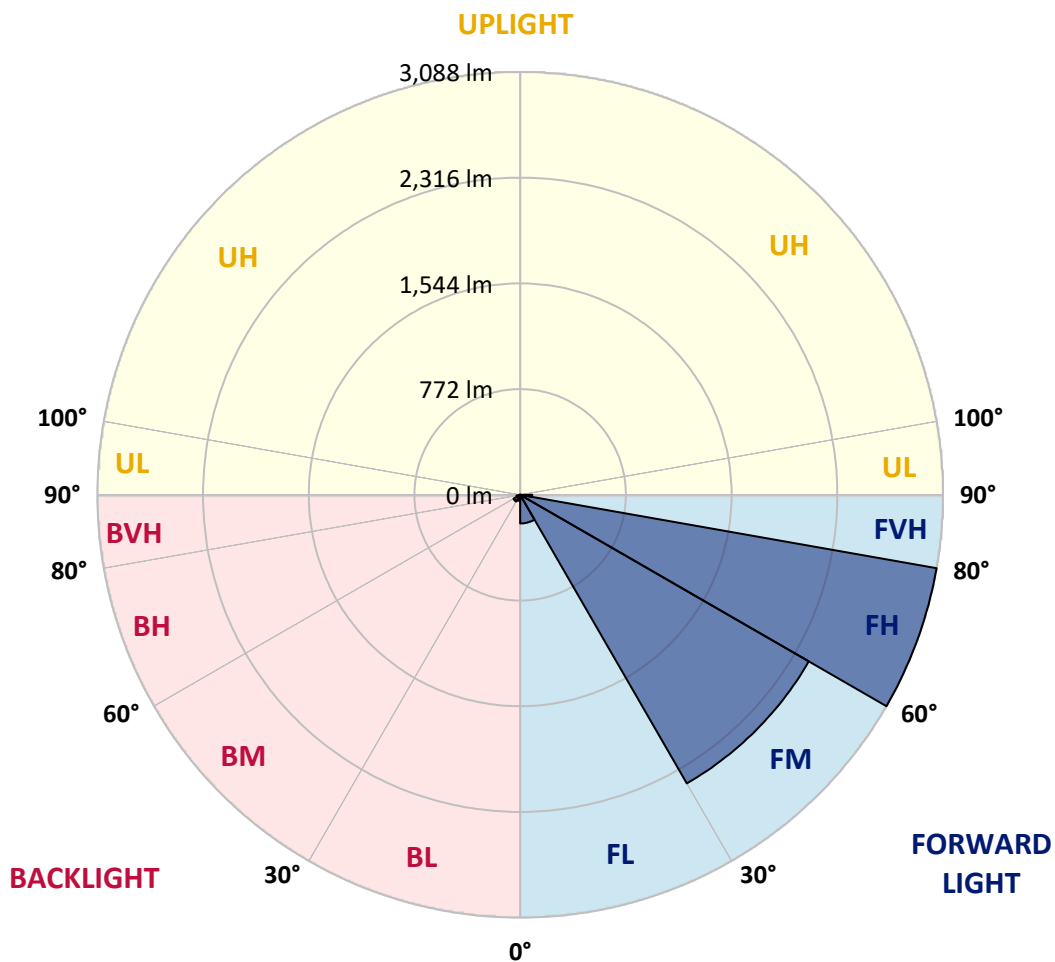
CATALOG NUMBER: AVM-E03-LED-E-U-T4-HSS-7050

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	209.5	3.5			
FM	(30°-60°)	2433.2	40.9			
FH	(60°-80°)	3087.6	51.9			G2/5000
FVH	(80°-90°)	88.3	1.5			G1/100
BL	(0°-30°)	44.1	0.7	B0/110		
BM	(30°-60°)	56.0	0.9	B0/220		
BH	(60°-80°)	27.3	0.5	B0/110		G0/110
BVH	(80°-90°)	7.6	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°	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8
2.5°	161.1	161.1	161.1	161.1	160.1	159.0	158.0	157.0	156.0	156.0	154.9
5°	182.6	183.7	182.6	181.6	179.6	178.5	175.5	173.4	170.3	169.3	166.2
7.5°	212.4	211.4	212.4	209.3	205.2	204.2	200.1	195.0	190.9	184.7	180.6
10°	255.5	254.5	255.5	249.3	243.2	238.1	230.9	224.7	215.5	208.3	200.1
12.5°	324.2	324.2	322.2	314.0	305.8	294.5	283.2	269.9	253.4	239.1	225.7
15°	429.9	424.8	415.6	410.4	396.1	378.6	366.3	339.6	316.0	293.5	266.8
17.5°	557.2	546.9	539.7	528.4	510.0	487.4	466.9	427.9	404.3	367.3	329.4
20°	702.9	690.6	688.5	671.1	651.6	627.0	597.2	551.0	511.0	464.8	411.5
22.5°	851.7	853.7	845.5	833.2	813.7	785.0	738.8	696.7	647.5	589.0	520.2
25°	1017.9	1016.9	1009.7	995.3	981.0	945.0	908.1	868.1	809.6	734.7	652.6
27.5°	1173.9	1172.8	1155.4	1156.4	1128.7	1115.4	1079.5	1036.4	965.6	903.0	813.7
30°	1337.0	1326.8	1315.5	1307.3	1287.8	1264.2	1245.7	1194.4	1141.0	1067.1	994.3
32.5°	1502.2	1490.9	1494.0	1483.7	1468.4	1444.8	1417.1	1375.0	1317.5	1245.7	1178.0
35°	1704.4	1699.2	1691.0	1694.1	1691.0	1673.6	1650.0	1594.6	1532.0	1463.2	1393.5
37.5°	1854.2	1849.0	1854.2	1875.7	1880.9	1892.1	1874.7	1847.0	1801.8	1726.9	1654.1
40°	1992.7	1993.7	2017.3	2044.0	2062.5	2099.4	2105.6	2094.3	2058.4	1989.6	1894.2
42.5°	2116.9	2132.2	2153.8	2197.9	2237.9	2290.3	2329.3	2335.4	2308.7	2263.6	2167.1
45°	2255.4	2268.7	2302.6	2354.9	2410.3	2475.0	2537.6	2570.4	2568.3	2536.5	2432.9
47.5°	2410.3	2427.8	2464.7	2507.8	2581.7	2654.5	2735.6	2794.1	2818.7	2774.6	2674.0
50°	2598.1	2605.3	2637.1	2692.5	2760.2	2844.4	2932.6	3017.8	3066.0	3025.0	2921.3
52.5°	2820.8	2822.8	2852.6	2903.9	2958.3	3050.6	3136.8	3254.8	3317.4	3294.8	3170.7
55°	3126.5	3120.4	3140.9	3185.0	3229.2	3318.4	3404.6	3538.0	3629.3	3631.4	3499.0
57.5°	3544.2	3529.8	3543.1	3578.0	3627.3	3710.4	3819.2	3937.2	4059.3	4051.1	3942.3
60°	4126.0	4120.8	4145.5	4204.0	4288.1	4374.3	4497.4	4656.5	4764.2	4801.1	4687.2
62.5°	4512.8	4527.2	4583.6	4673.9	4836.0	5014.6	5243.4	5486.6	5691.8	5784.2	5627.2
65°	4346.6	4370.2	4458.4	4591.8	4806.3	5074.1	5377.8	5777.0	6131.0	6271.6	6108.4
66°	4206.0	4244.0	4327.1	4468.7	4692.4	4984.8	5301.9	5743.1	6141.2	6299.3	6133.0
67.5°	3962.8	3989.5	4083.9	4240.9	4481.0	4770.4	5113.1	5578.9	6028.4	6195.6	6030.4
70°	3467.2	3477.5	3554.4	3687.8	3873.5	4170.1	4481.0	4929.4	5342.9	5577.9	5397.3
72.5°	2580.7	2595.0	2722.3	2965.4	3206.6	3374.9	3558.5	3917.7	4184.5	4404.0	4369.2
75°	1241.6	1247.7	1332.9	1687.9	2157.9	2359.0	2529.3	2807.4	2909.0	3092.7	3065.0
77.5°	787.0	800.4	855.8	942.0	1208.8	1447.8	1582.3	1741.3	1771.1	1926.0	1835.7
80°	216.5	251.4	306.8	451.5	774.7	923.5	984.0	977.9	984.0	936.8	906.1
82.5°	44.1	43.1	52.3	81.1	341.7	537.7	580.8	494.6	491.5	473.0	488.4
85°	11.3	10.3	12.3	25.7	58.5	159.0	200.1	111.8	85.2	81.1	71.8
87.5°	3.1	3.1	3.1	5.1	6.2	8.2	11.3	8.2	6.2	6.2	6.2
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°	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8
2.5°	153.9	153.9	152.9	151.9	151.9	150.8	149.8	148.8	147.8	146.7	145.7
5°	163.2	161.1	158.0	156.0	153.9	150.8	148.8	146.7	144.7	143.7	141.6
7.5°	175.5	170.3	166.2	160.1	156.0	151.9	147.8	144.7	141.6	139.6	137.5
10°	190.9	182.6	174.4	166.2	159.0	152.9	146.7	141.6	138.5	135.4	133.4
12.5°	210.4	198.0	186.8	174.4	163.2	153.9	145.7	139.6	135.4	132.4	129.3
15°	242.2	222.7	203.2	184.7	170.3	156.0	144.7	137.5	132.4	129.3	126.2
17.5°	292.4	257.6	226.8	201.1	177.5	159.0	144.7	135.4	129.3	125.2	122.1
20°	365.3	307.8	258.6	221.6	190.9	164.2	144.7	132.4	126.2	121.1	118.0
22.5°	451.5	379.7	311.9	250.4	206.2	171.4	144.7	129.3	122.1	118.0	113.9
25°	577.7	482.3	389.9	303.7	231.9	182.6	147.8	127.2	119.0	113.9	109.8
27.5°	725.5	610.5	495.6	374.5	270.9	199.1	151.9	125.2	115.9	109.8	105.7
30°	893.7	766.5	625.9	468.9	322.2	220.6	159.0	124.2	111.8	105.7	100.6
32.5°	1076.4	942.0	788.0	590.0	398.1	253.4	168.3	123.1	107.7	100.6	94.4
35°	1293.9	1168.7	981.0	760.3	516.1	309.9	188.8	125.2	103.6	95.4	88.2
37.5°	1532.0	1398.6	1199.5	940.9	633.1	373.5	204.2	122.1	96.5	88.2	81.1
40°	1772.1	1619.2	1417.1	1130.8	781.9	451.5	223.7	119.0	89.3	81.1	73.9
42.5°	2006.0	1844.9	1625.4	1325.7	938.9	543.8	248.3	119.0	84.1	73.9	66.7
45°	2251.3	2057.3	1817.2	1512.5	1094.9	649.5	283.2	118.0	78.0	67.7	59.5
47.5°	2483.2	2253.3	1977.3	1676.7	1262.1	765.5	323.2	119.0	72.9	61.6	54.4
50°	2702.8	2439.1	2141.5	1823.4	1422.2	890.7	372.5	120.1	67.7	56.4	49.3
52.5°	2942.9	2650.4	2318.0	1974.2	1580.2	1016.9	429.9	122.1	62.6	51.3	45.1
55°	3240.4	2916.2	2535.5	2158.9	1747.5	1144.1	485.3	124.2	57.5	47.2	41.0
57.5°	3669.4	3300.0	2888.5	2436.0	1969.1	1288.8	542.8	129.3	53.4	44.1	38.0
60°	4367.1	3926.9	3451.8	2918.2	2300.5	1484.8	625.9	140.6	48.2	40.0	35.9
62.5°	5206.5	4677.0	4072.6	3425.1	2612.5	1617.1	681.3	152.9	44.1	36.9	33.9
65°	5629.2	4962.2	4265.5	3566.7	2652.5	1578.2	658.8	148.8	39.0	32.8	28.7
66°	5641.5	4946.9	4238.8	3536.0	2611.4	1530.9	637.2	146.7	38.0	31.8	26.7
67.5°	5524.6	4814.5	4097.2	3396.4	2490.4	1439.6	598.2	139.6	34.9	28.7	23.6
70°	4946.9	4255.3	3597.5	2950.1	2142.5	1212.9	501.8	123.1	30.8	25.7	21.5
72.5°	3943.3	3380.0	2825.9	2321.1	1665.4	910.2	396.1	100.6	26.7	22.6	18.5
75°	2754.1	2291.3	1869.6	1509.4	1046.6	544.9	256.5	70.8	22.6	18.5	15.4
77.5°	1537.1	1219.0	921.4	701.9	417.6	170.3	85.2	35.9	19.5	14.4	12.3
80°	781.9	579.7	441.2	325.3	192.9	88.2	43.1	23.6	15.4	11.3	10.3
82.5°	454.6	333.5	265.8	210.4	132.4	66.7	34.9	17.4	10.3	8.2	9.2
85°	101.6	134.4	113.9	96.5	70.8	42.1	24.6	11.3	7.2	7.2	8.2
87.5°	8.2	11.3	10.3	13.3	14.4	13.3	10.3	6.2	5.1	6.2	6.2
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°	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8	148.8
2.5°	144.7	143.7	143.7	142.6	141.6	141.6	141.6	140.6	141.6	141.6	141.6
5°	140.6	139.6	138.5	137.5	136.5	135.4	135.4	134.4	134.4	134.4	135.4
7.5°	136.5	134.4	133.4	131.3	130.3	129.3	129.3	128.3	128.3	128.3	128.3
10°	131.3	129.3	127.2	126.2	125.2	123.1	123.1	122.1	121.1	121.1	121.1
12.5°	127.2	125.2	123.1	121.1	119.0	118.0	117.0	115.9	114.9	114.9	114.9
15°	123.1	120.1	118.0	115.9	113.9	111.8	110.8	109.8	108.8	107.7	107.7
17.5°	119.0	115.9	112.9	110.8	108.8	106.7	105.7	102.6	102.6	101.6	101.6
20°	113.9	110.8	107.7	105.7	103.6	101.6	99.5	97.5	95.4	94.4	94.4
22.5°	109.8	106.7	103.6	100.6	97.5	94.4	92.3	90.3	89.3	88.2	87.2
25°	105.7	101.6	97.5	94.4	91.3	88.2	86.2	84.1	82.1	81.1	81.1
27.5°	100.6	96.5	92.3	88.2	85.2	82.1	80.0	77.0	75.9	74.9	73.9
30°	95.4	90.3	86.2	82.1	79.0	74.9	72.9	70.8	68.7	68.7	67.7
32.5°	89.3	84.1	80.0	75.9	71.8	68.7	66.7	64.6	63.6	61.6	61.6
35°	83.1	78.0	72.9	68.7	65.7	62.6	60.5	58.5	56.4	55.4	55.4
37.5°	75.9	70.8	66.7	62.6	59.5	56.4	54.4	52.3	51.3	50.3	49.3
40°	67.7	62.6	59.5	56.4	53.4	51.3	48.2	46.2	45.1	44.1	43.1
42.5°	60.5	55.4	53.4	51.3	48.2	46.2	43.1	41.0	39.0	38.0	36.9
45°	54.4	50.3	48.2	46.2	43.1	40.0	38.0	35.9	33.9	32.8	32.8
47.5°	48.2	45.1	43.1	41.0	38.0	35.9	32.8	31.8	29.8	29.8	29.8
50°	44.1	41.0	39.0	36.9	34.9	31.8	29.8	28.7	27.7	27.7	28.7
52.5°	41.0	38.0	35.9	33.9	31.8	29.8	27.7	26.7	26.7	27.7	28.7
55°	38.0	34.9	32.8	30.8	28.7	27.7	25.7	25.7	26.7	27.7	28.7
57.5°	35.9	31.8	29.8	28.7	26.7	25.7	25.7	25.7	26.7	27.7	29.8
60°	32.8	28.7	26.7	26.7	24.6	24.6	24.6	25.7	26.7	28.7	29.8
62.5°	28.7	25.7	24.6	24.6	23.6	23.6	24.6	25.7	27.7	28.7	29.8
65°	24.6	22.6	22.6	22.6	22.6	23.6	24.6	25.7	26.7	28.7	29.8
66°	22.6	21.5	21.5	22.6	22.6	23.6	24.6	25.7	26.7	27.7	28.7
67.5°	21.5	20.5	20.5	21.5	22.6	22.6	23.6	25.7	26.7	27.7	27.7
70°	18.5	18.5	18.5	20.5	21.5	22.6	23.6	24.6	25.7	26.7	27.7
72.5°	16.4	16.4	17.4	18.5	20.5	21.5	22.6	23.6	25.7	26.7	26.7
75°	14.4	14.4	16.4	17.4	19.5	20.5	22.6	23.6	24.6	25.7	25.7
77.5°	12.3	13.3	15.4	17.4	18.5	20.5	21.5	22.6	23.6	24.6	24.6
80°	11.3	13.3	15.4	16.4	17.4	18.5	19.5	21.5	22.6	23.6	24.6
82.5°	11.3	12.3	14.4	15.4	16.4	18.5	19.5	20.5	21.5	22.6	23.6
85°	9.2	11.3	12.3	14.4	15.4	17.4	18.5	18.5	19.5	20.5	21.5
87.5°	7.2	8.2	8.2	10.3	11.3	13.3	15.4	15.4	16.4	17.4	18.5
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°	148.8	148.8	148.8	148.8
2.5°	141.6	142.6	142.6	142.6
5°	135.4	135.4	135.4	135.4
7.5°	128.3	128.3	128.3	128.3
10°	121.1	121.1	122.1	121.1
12.5°	114.9	113.9	113.9	113.9
15°	107.7	107.7	106.7	107.7
17.5°	100.6	100.6	99.5	99.5
20°	93.4	93.4	93.4	93.4
22.5°	87.2	86.2	86.2	86.2
25°	80.0	80.0	80.0	80.0
27.5°	73.9	73.9	73.9	73.9
30°	67.7	67.7	66.7	66.7
32.5°	61.6	61.6	61.6	61.6
35°	55.4	55.4	54.4	54.4
37.5°	48.2	48.2	48.2	48.2
40°	42.1	42.1	42.1	42.1
42.5°	36.9	36.9	35.9	35.9
45°	31.8	31.8	31.8	31.8
47.5°	29.8	29.8	29.8	29.8
50°	28.7	29.8	29.8	29.8
52.5°	29.8	29.8	29.8	29.8
55°	29.8	30.8	30.8	30.8
57.5°	29.8	30.8	30.8	31.8
60°	30.8	31.8	31.8	31.8
62.5°	30.8	31.8	31.8	31.8
65°	29.8	30.8	30.8	30.8
66°	29.8	29.8	29.8	30.8
67.5°	28.7	29.8	29.8	29.8
70°	27.7	28.7	28.7	29.8
72.5°	27.7	28.7	28.7	28.7
75°	26.7	26.7	27.7	27.7
77.5°	25.7	25.7	26.7	26.7
80°	24.6	25.7	25.7	25.7
82.5°	23.6	24.6	24.6	24.6
85°	21.5	22.6	22.6	22.6
87.5°	18.5	18.5	19.5	19.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)