

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: P156298

Luminaire Tested: **AVM-E04-LED-E-U-T4-HSS-8030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156298  
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-E04-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: (84) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 6529.3 lumens  
Efficiency: N/A  
Efficacy: 67.2 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

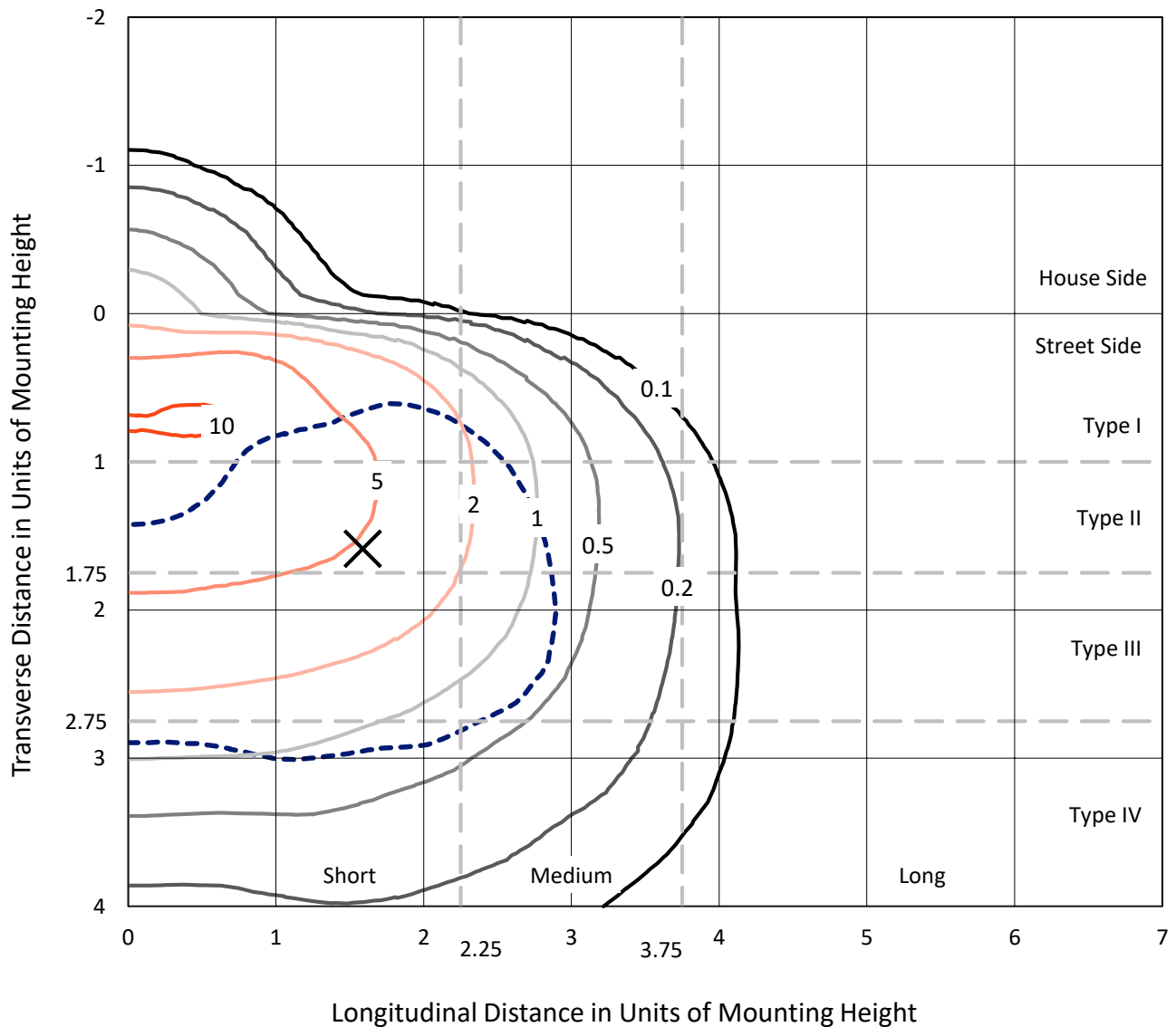
Input Watts (W): 97.2  
Input Voltage (V): NR  
Input Current (A<sub>in</sub>): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

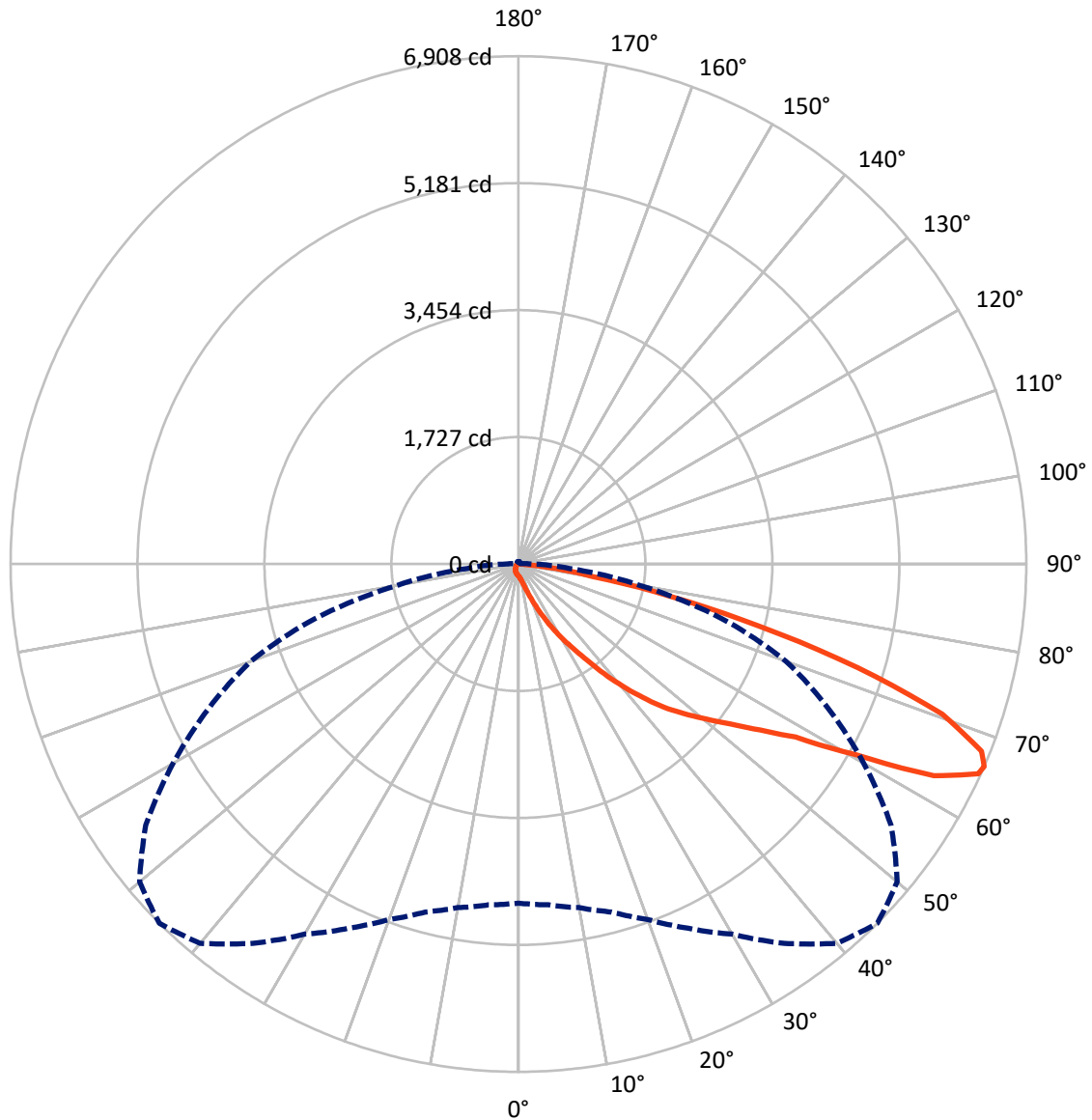
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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	148.0	0.0	148.0
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	6381.3	0.0	6381.3
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	6529.3	0.0	6529.3
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	16.4	0.3
10°-20°	66.6	1.0
20°-30°	195.1	3.0
30°-40°	455.7	7.0
40°-50°	855.9	13.1
50°-60°	1418.4	21.7
60°-70°	2251.6	34.5
70°-80°	1164.5	17.8
80°-90°	105.2	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°	6529.3	100.0
0°-180°	6529.3	100.0



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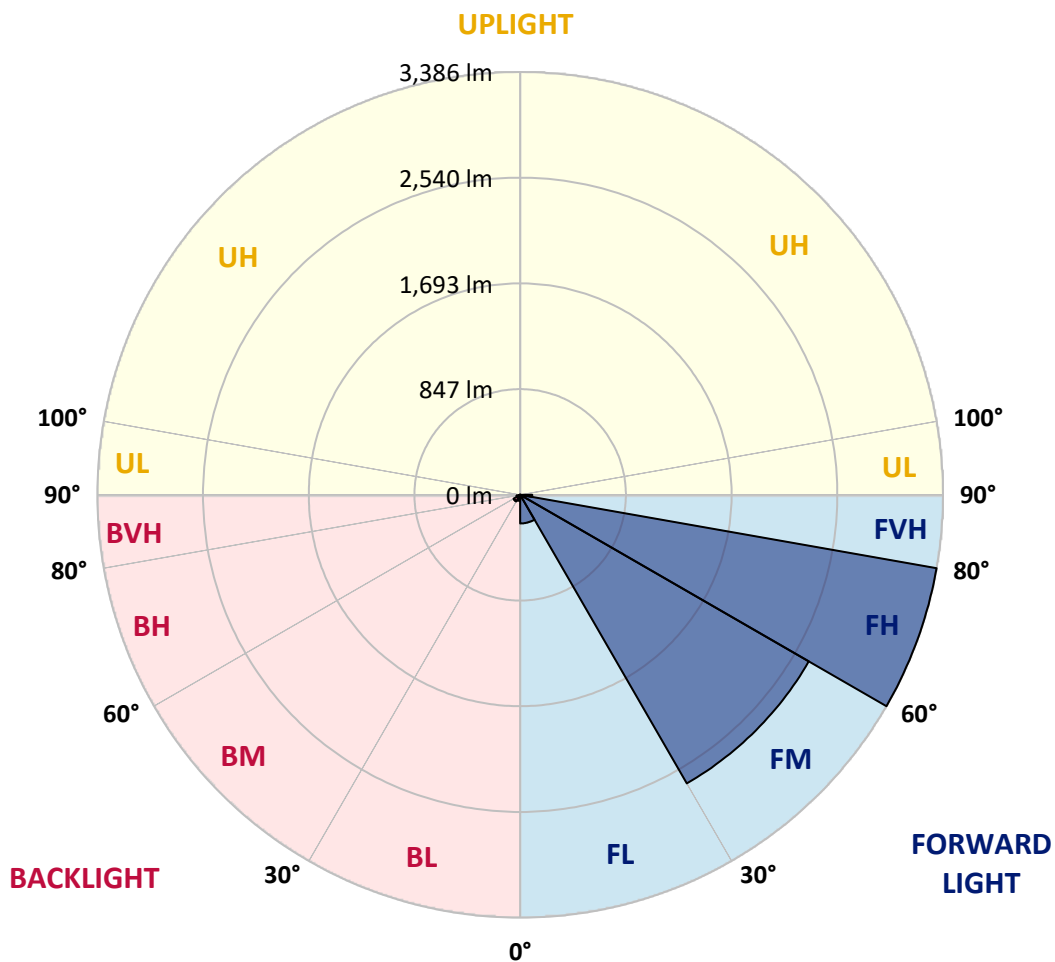
CATALOG NUMBER: AVM-E04-LED-E-U-T4-HSS-8030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	229.7	3.5			
FM	(30°-60°)	2668.5	40.9			
FH	(60°-80°)	3386.1	51.9			G2/5000
FVH	(80°-90°)	96.9	1.5			G1/100
BL	(0°-30°)	48.3	0.7	B0/110		
BM	(30°-60°)	61.4	0.9	B0/220		
BH	(60°-80°)	30.0	0.5	B0/110		G0/110
BVH	(80°-90°)	8.3	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°	163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2
2.5°	176.7	176.7	176.7	176.7	175.6	174.4	173.3	172.2	171.0	171.0	169.9
5°	200.3	201.4	200.3	199.2	196.9	195.8	192.4	190.2	186.8	185.7	182.3
7.5°	232.9	231.8	232.9	229.6	225.1	223.9	219.4	213.8	209.3	202.6	198.1
10°	280.2	279.1	280.2	273.5	266.7	261.1	253.2	246.4	236.3	228.4	219.4
12.5°	355.6	355.6	353.4	344.3	335.3	323.0	310.6	296.0	278.0	262.2	247.6
15°	471.5	465.9	455.8	450.1	434.4	415.2	401.7	372.5	346.6	321.8	292.6
17.5°	611.0	599.8	591.9	579.5	559.3	534.5	512.0	469.3	443.4	402.9	361.2
20°	770.8	757.3	755.1	736.0	714.6	687.6	654.9	604.3	560.4	509.8	451.3
22.5°	934.0	936.3	927.3	913.8	892.4	860.9	810.2	764.1	710.1	645.9	570.5
25°	1116.3	1115.2	1107.3	1091.6	1075.8	1036.4	995.9	952.0	887.9	805.7	715.7
27.5°	1287.4	1286.2	1267.1	1268.2	1237.9	1223.2	1183.8	1136.6	1058.9	990.3	892.4
30°	1466.3	1455.0	1442.7	1433.7	1412.3	1386.4	1366.1	1309.9	1251.4	1170.3	1090.4
32.5°	1647.5	1635.1	1638.5	1627.2	1610.3	1584.5	1554.1	1507.9	1444.9	1366.1	1291.9
35°	1869.2	1863.5	1854.5	1857.9	1854.5	1835.4	1809.5	1748.7	1680.1	1604.7	1528.2
37.5°	2033.5	2027.8	2033.5	2057.1	2062.7	2075.1	2056.0	2025.6	1976.1	1893.9	1814.0
40°	2185.4	2186.5	2212.4	2241.6	2261.9	2302.4	2309.2	2296.8	2257.4	2182.0	2077.3
42.5°	2321.5	2338.4	2362.0	2410.4	2454.3	2511.7	2554.5	2561.2	2532.0	2482.5	2376.7
45°	2473.5	2488.1	2525.2	2582.6	2643.4	2714.3	2782.9	2818.9	2816.7	2781.8	2668.1
47.5°	2643.4	2662.5	2703.0	2750.3	2831.3	2911.2	3000.1	3064.2	3091.3	3042.9	2932.6
50°	2849.3	2857.2	2892.1	2952.8	3027.1	3119.4	3216.2	3309.6	3362.5	3317.4	3203.8
52.5°	3093.5	3095.8	3128.4	3184.7	3244.3	3345.6	3440.1	3569.5	3638.2	3613.4	3477.2
55°	3428.9	3422.1	3444.6	3493.0	3541.4	3639.3	3733.8	3880.1	3980.3	3982.5	3837.3
57.5°	3886.9	3871.1	3885.7	3924.0	3978.0	4069.2	4188.4	4317.9	4451.8	4442.8	4323.5
60°	4524.9	4519.3	4546.3	4610.4	4702.7	4797.2	4932.3	5106.7	5224.9	5265.4	5140.5
62.5°	4949.2	4964.9	5026.8	5125.8	5303.6	5499.4	5750.4	6017.1	6242.2	6343.4	6171.3
65°	4766.9	4792.7	4889.5	5035.8	5271.0	5564.7	5897.8	6335.6	6723.8	6878.0	6699.0
66°	4612.7	4654.3	4745.5	4900.8	5146.1	5466.8	5814.5	6298.4	6735.0	6908.3	6726.0
67.5°	4346.0	4375.2	4478.8	4651.0	4914.3	5231.6	5607.5	6118.4	6611.3	6794.7	6613.5
70°	3802.5	3813.7	3898.1	4044.4	4248.1	4573.3	4914.3	5406.0	5859.5	6117.2	5919.2
72.5°	2830.2	2845.9	2985.5	3252.2	3516.6	3701.2	3902.6	4296.5	4589.1	4829.9	4791.6
75°	1361.6	1368.4	1461.8	1851.2	2366.6	2587.1	2773.9	3078.9	3190.3	3391.7	3361.3
77.5°	863.1	877.8	938.5	1033.0	1325.6	1587.8	1735.2	1909.7	1942.3	2112.2	2013.2
80°	237.4	275.7	336.5	495.1	849.6	1012.8	1079.2	1072.4	1079.2	1027.4	993.7
82.5°	48.4	47.3	57.4	88.9	374.7	589.7	636.9	542.4	539.0	518.8	535.7
85°	12.4	11.3	13.5	28.1	64.1	174.4	219.4	122.7	93.4	88.9	78.8
87.5°	3.4	3.4	3.4	5.6	6.8	9.0	12.4	9.0	6.8	6.8	6.8
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°	163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2
2.5°	168.8	168.8	167.7	166.5	166.5	165.4	164.3	163.2	162.0	160.9	159.8
5°	178.9	176.7	173.3	171.0	168.8	165.4	163.2	160.9	158.7	157.5	155.3
7.5°	192.4	186.8	182.3	175.6	171.0	166.5	162.0	158.7	155.3	153.0	150.8
10°	209.3	200.3	191.3	182.3	174.4	167.7	160.9	155.3	151.9	148.5	146.3
12.5°	230.7	217.2	204.8	191.3	178.9	168.8	159.8	153.0	148.5	145.2	141.8
15°	265.6	244.2	222.8	202.6	186.8	171.0	158.7	150.8	145.2	141.8	138.4
17.5°	320.7	282.5	248.7	220.6	194.7	174.4	158.7	148.5	141.8	137.3	133.9
20°	400.6	337.6	283.6	243.1	209.3	180.1	158.7	145.2	138.4	132.8	129.4
22.5°	495.1	416.4	342.1	274.6	226.2	187.9	158.7	141.8	133.9	129.4	124.9
25°	633.6	528.9	427.6	333.1	254.3	200.3	162.0	139.5	130.5	124.9	120.4
27.5°	795.6	669.6	543.5	410.7	297.1	218.3	166.5	137.3	127.2	120.4	115.9
30°	980.2	840.6	686.4	514.3	353.4	241.9	174.4	136.2	122.7	115.9	110.3
32.5°	1180.5	1033.0	864.2	647.1	436.6	278.0	184.6	135.0	118.2	110.3	103.5
35°	1419.0	1281.7	1075.8	833.9	566.0	339.8	207.1	137.3	113.7	104.7	96.8
37.5°	1680.1	1533.8	1315.5	1031.9	694.3	409.6	223.9	133.9	105.8	96.8	88.9
40°	1943.4	1775.8	1554.1	1240.1	857.5	495.1	245.3	130.5	97.9	88.9	81.0
42.5°	2200.0	2023.3	1782.5	1453.9	1029.7	596.4	272.3	130.5	92.3	81.0	73.1
45°	2469.0	2256.3	1992.9	1658.7	1200.7	712.3	310.6	129.4	85.5	74.3	65.3
47.5°	2723.3	2471.2	2168.5	1838.8	1384.1	839.5	354.5	130.5	79.9	67.5	59.6
50°	2964.1	2674.9	2348.5	1999.7	1559.7	976.8	408.5	131.7	74.3	61.9	54.0
52.5°	3227.4	2906.7	2542.1	2165.1	1733.0	1115.2	471.5	133.9	68.6	56.3	49.5
55°	3553.8	3198.2	2780.7	2367.7	1916.4	1254.7	532.3	136.2	63.0	51.8	45.0
57.5°	4024.1	3619.0	3167.8	2671.5	2159.5	1413.4	595.3	141.8	58.5	48.4	41.6
60°	4789.4	4306.6	3785.6	3200.4	2523.0	1628.3	686.4	154.2	52.9	43.9	39.4
62.5°	5709.9	5129.2	4466.4	3756.3	2865.1	1773.5	747.2	167.7	48.4	40.5	37.1
65°	6173.5	5442.1	4678.0	3911.6	2909.0	1730.7	722.5	163.2	42.8	36.0	31.5
66°	6187.0	5425.2	4648.7	3877.9	2863.9	1679.0	698.8	160.9	41.6	34.9	29.3
67.5°	6058.7	5280.0	4493.4	3724.8	2731.2	1578.8	656.1	153.0	38.3	31.5	25.9
70°	5425.2	4666.7	3945.4	3235.3	2349.7	1330.1	550.3	135.0	33.8	28.1	23.6
72.5°	4324.6	3706.8	3099.1	2545.5	1826.4	998.2	434.4	110.3	29.3	24.8	20.3
75°	3020.4	2512.8	2050.3	1655.3	1147.8	597.5	281.3	77.6	24.8	20.3	16.9
77.5°	1685.7	1336.9	1010.5	769.7	458.0	186.8	93.4	39.4	21.4	15.8	13.5
80°	857.5	635.8	483.9	356.7	211.6	96.8	47.3	25.9	16.9	12.4	11.3
82.5°	498.5	365.7	291.5	230.7	145.2	73.1	38.3	19.1	11.3	9.0	10.1
85°	111.4	147.4	124.9	105.8	77.6	46.1	27.0	12.4	7.9	7.9	9.0
87.5°	9.0	12.4	11.3	14.6	15.8	14.6	11.3	6.8	5.6	6.8	6.8
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°	163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2	163.2
2.5°	158.7	157.5	157.5	156.4	155.3	155.3	155.3	154.2	155.3	155.3	155.3
5°	154.2	153.0	151.9	150.8	149.7	148.5	148.5	147.4	147.4	147.4	148.5
7.5°	149.7	147.4	146.3	144.0	142.9	141.8	141.8	140.7	140.7	140.7	140.7
10°	144.0	141.8	139.5	138.4	137.3	135.0	135.0	133.9	132.8	132.8	132.8
12.5°	139.5	137.3	135.0	132.8	130.5	129.4	128.3	127.2	126.0	126.0	126.0
15°	135.0	131.7	129.4	127.2	124.9	122.7	121.5	120.4	119.3	118.2	118.2
17.5°	130.5	127.2	123.8	121.5	119.3	117.0	115.9	112.5	112.5	111.4	111.4
20°	124.9	121.5	118.2	115.9	113.7	111.4	109.2	106.9	104.7	103.5	103.5
22.5°	120.4	117.0	113.7	110.3	106.9	103.5	101.3	99.0	97.9	96.8	95.7
25°	115.9	111.4	106.9	103.5	100.2	96.8	94.5	92.3	90.0	88.9	88.9
27.5°	110.3	105.8	101.3	96.8	93.4	90.0	87.8	84.4	83.3	82.1	81.0
30°	104.7	99.0	94.5	90.0	86.6	82.1	79.9	77.6	75.4	75.4	74.3
32.5°	97.9	92.3	87.8	83.3	78.8	75.4	73.1	70.9	69.8	67.5	67.5
35°	91.2	85.5	79.9	75.4	72.0	68.6	66.4	64.1	61.9	60.8	60.8
37.5°	83.3	77.6	73.1	68.6	65.3	61.9	59.6	57.4	56.3	55.1	54.0
40°	74.3	68.6	65.3	61.9	58.5	56.3	52.9	50.6	49.5	48.4	47.3
42.5°	66.4	60.8	58.5	56.3	52.9	50.6	47.3	45.0	42.8	41.6	40.5
45°	59.6	55.1	52.9	50.6	47.3	43.9	41.6	39.4	37.1	36.0	36.0
47.5°	52.9	49.5	47.3	45.0	41.6	39.4	36.0	34.9	32.6	32.6	32.6
50°	48.4	45.0	42.8	40.5	38.3	34.9	32.6	31.5	30.4	30.4	31.5
52.5°	45.0	41.6	39.4	37.1	34.9	32.6	30.4	29.3	29.3	30.4	31.5
55°	41.6	38.3	36.0	33.8	31.5	30.4	28.1	28.1	29.3	30.4	31.5
57.5°	39.4	34.9	32.6	31.5	29.3	28.1	28.1	28.1	29.3	30.4	32.6
60°	36.0	31.5	29.3	29.3	27.0	27.0	27.0	28.1	29.3	31.5	32.6
62.5°	31.5	28.1	27.0	27.0	25.9	25.9	27.0	28.1	30.4	31.5	32.6
65°	27.0	24.8	24.8	24.8	24.8	25.9	27.0	28.1	29.3	31.5	32.6
66°	24.8	23.6	23.6	24.8	24.8	25.9	27.0	28.1	29.3	30.4	31.5
67.5°	23.6	22.5	22.5	23.6	24.8	24.8	25.9	28.1	29.3	30.4	30.4
70°	20.3	20.3	20.3	22.5	23.6	24.8	25.9	27.0	28.1	29.3	30.4
72.5°	18.0	18.0	19.1	20.3	22.5	23.6	24.8	25.9	28.1	29.3	29.3
75°	15.8	15.8	18.0	19.1	21.4	22.5	24.8	25.9	27.0	28.1	28.1
77.5°	13.5	14.6	16.9	19.1	20.3	22.5	23.6	24.8	25.9	27.0	27.0
80°	12.4	14.6	16.9	18.0	19.1	20.3	21.4	23.6	24.8	25.9	27.0
82.5°	12.4	13.5	15.8	16.9	18.0	20.3	21.4	22.5	23.6	24.8	25.9
85°	10.1	12.4	13.5	15.8	16.9	19.1	20.3	20.3	21.4	22.5	23.6
87.5°	7.9	9.0	9.0	11.3	12.4	14.6	16.9	16.9	18.0	19.1	20.3
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°	163.2	163.2	163.2	163.2
2.5°	155.3	156.4	156.4	156.4
5°	148.5	148.5	148.5	148.5
7.5°	140.7	140.7	140.7	140.7
10°	132.8	132.8	133.9	132.8
12.5°	126.0	124.9	124.9	124.9
15°	118.2	118.2	117.0	118.2
17.5°	110.3	110.3	109.2	109.2
20°	102.4	102.4	102.4	102.4
22.5°	95.7	94.5	94.5	94.5
25°	87.8	87.8	87.8	87.8
27.5°	81.0	81.0	81.0	81.0
30°	74.3	74.3	73.1	73.1
32.5°	67.5	67.5	67.5	67.5
35°	60.8	60.8	59.6	59.6
37.5°	52.9	52.9	52.9	52.9
40°	46.1	46.1	46.1	46.1
42.5°	40.5	40.5	39.4	39.4
45°	34.9	34.9	34.9	34.9
47.5°	32.6	32.6	32.6	32.6
50°	31.5	32.6	32.6	32.6
52.5°	32.6	32.6	32.6	32.6
55°	32.6	33.8	33.8	33.8
57.5°	32.6	33.8	33.8	34.9
60°	33.8	34.9	34.9	34.9
62.5°	33.8	34.9	34.9	34.9
65°	32.6	33.8	33.8	33.8
66°	32.6	32.6	32.6	33.8
67.5°	31.5	32.6	32.6	32.6
70°	30.4	31.5	31.5	32.6
72.5°	30.4	31.5	31.5	31.5
75°	29.3	29.3	30.4	30.4
77.5°	28.1	28.1	29.3	29.3
80°	27.0	28.1	28.1	28.1
82.5°	25.9	27.0	27.0	27.0
85°	23.6	24.8	24.8	24.8
87.5°	20.3	20.3	21.4	21.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)