

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: P156284

Luminaire Tested: **AVM-F02-LED-E-U-T4-HSS-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156284  
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-F02-LED-E-U-T4-HSS-7030  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 2916.5 lumens  
Efficiency: N/A  
Efficacy: 53.0 lumens/watt  
Luminous Opening: Rectangular (W 0.33' x L: 1' x H: 0')  
IES Classification: Type IV - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G1

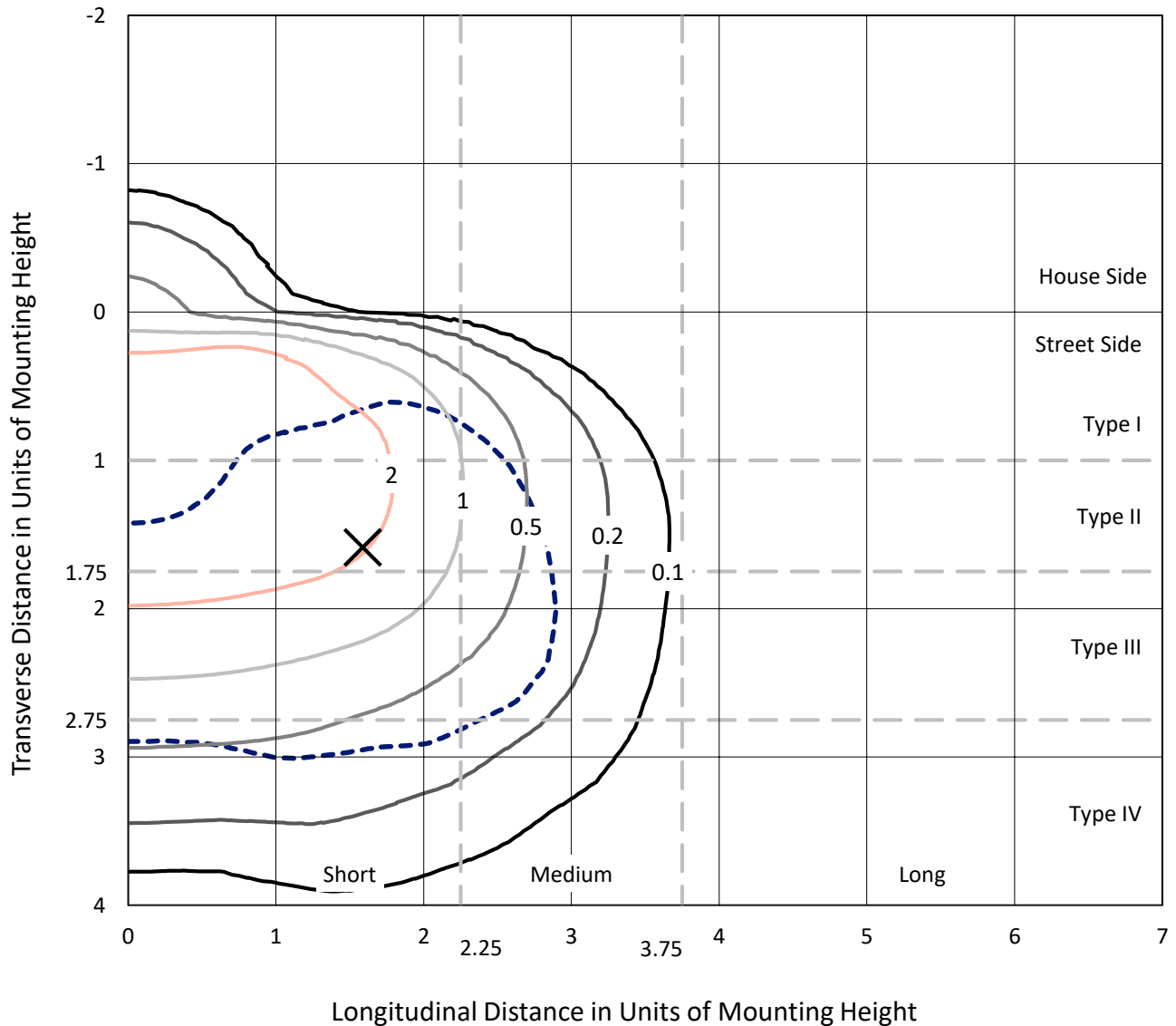
Input Watts (W): 55  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd  
 - - - 1/2 Max cd

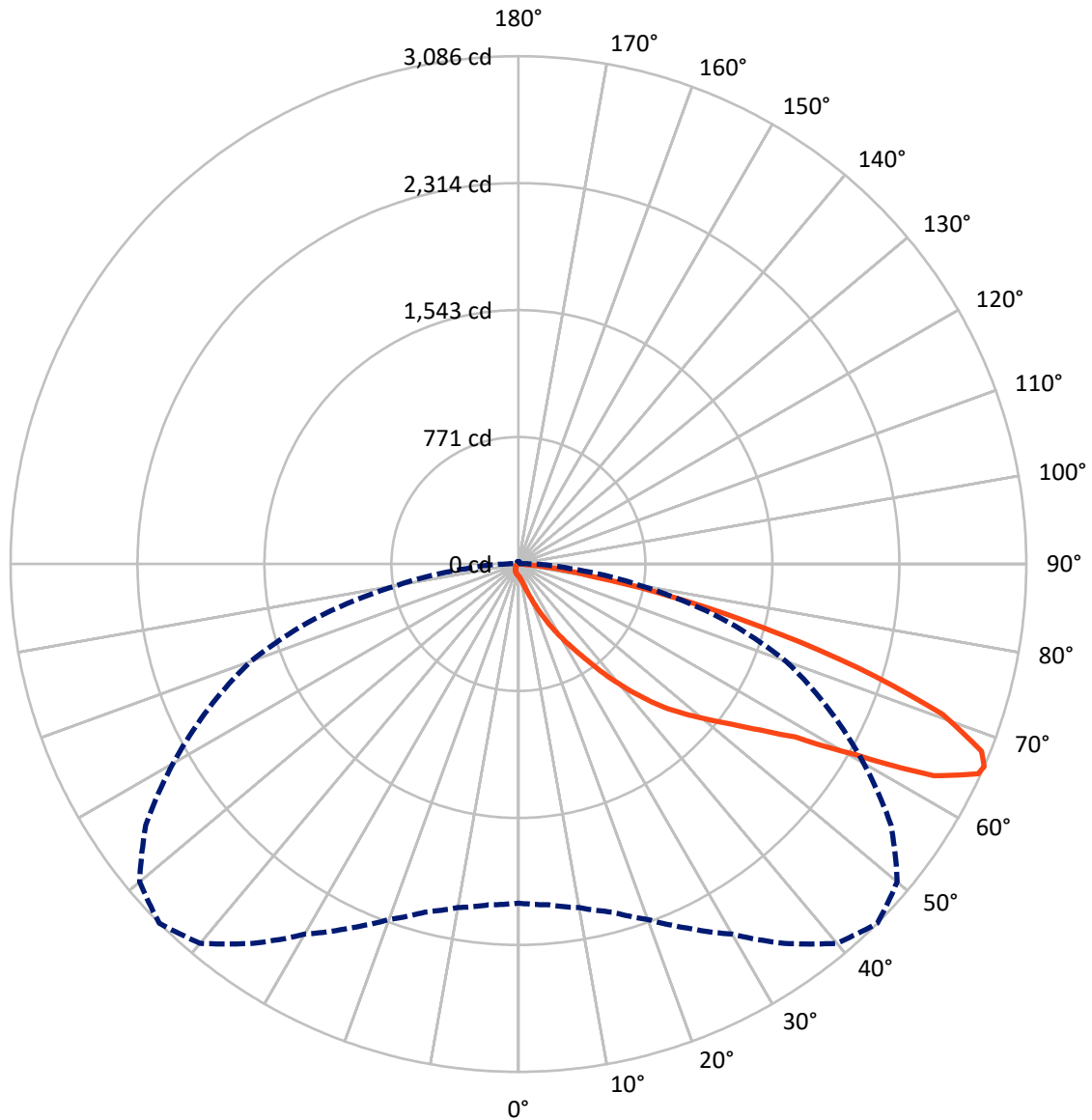


Based on 10 foot mounting height. Maximum calculated value = 4.6 fc  
 Type IV - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



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

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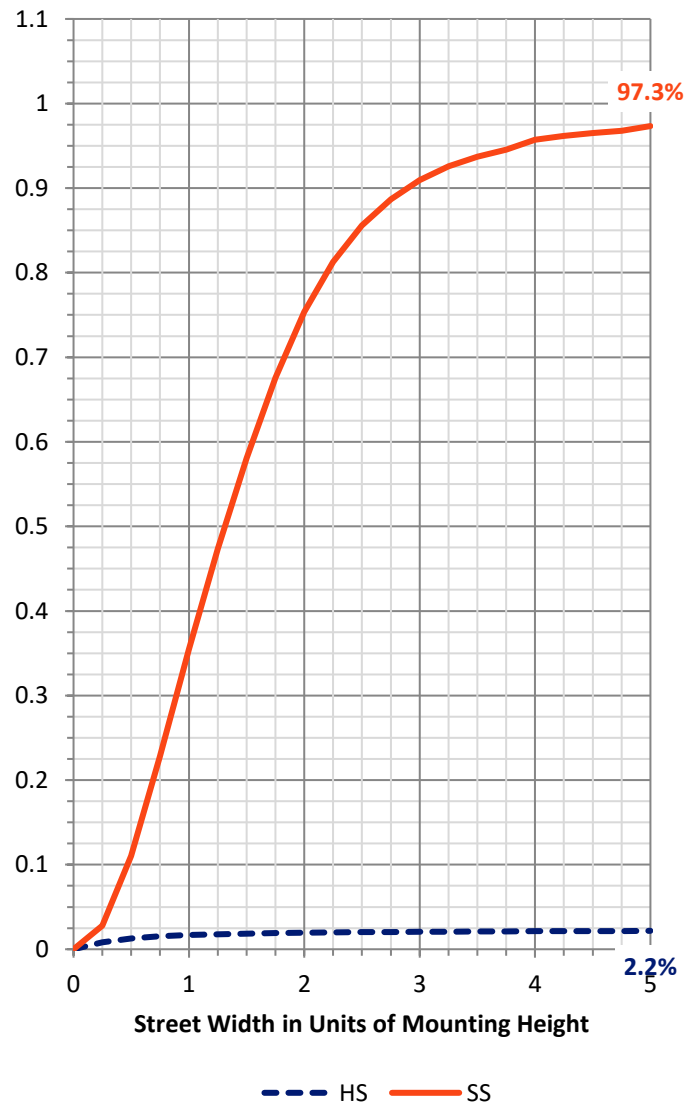
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	66.1	0.0	66.1
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	2850.4	0.0	2850.4
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	2916.5	0.0	2916.5
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	7.3	0.3
10°-20°	29.7	1.0
20°-30°	87.1	3.0
30°-40°	203.5	7.0
40°-50°	382.3	13.1
50°-60°	633.6	21.7
60°-70°	1005.8	34.5
70°-80°	520.1	17.8
80°-90°	47.0	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°	2916.5	100.0
0°-180°	2916.5	100.0



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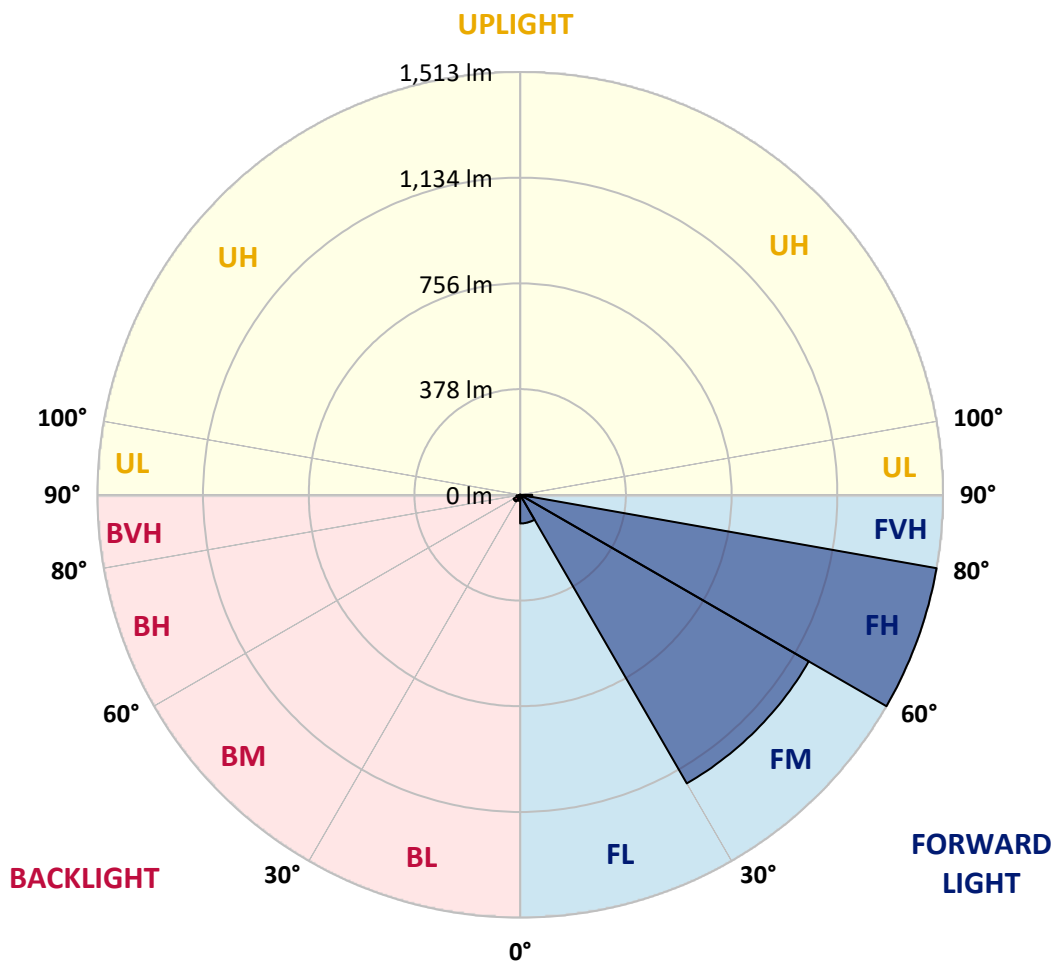
CATALOG NUMBER: AVM-F02-LED-E-U-T4-HSS-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	102.6	3.5			
FM	(30°-60°)	1192.0	40.9			
FH	(60°-80°)	1512.5	51.9			G1/1800
FVH	(80°-90°)	43.3	1.5			G1/100
BL	(0°-30°)	21.6	0.7	B0/110		
BM	(30°-60°)	27.4	0.9	B0/220		
BH	(60°-80°)	13.4	0.5	B0/110		G0/110
BVH	(80°-90°)	3.7	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-G1**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
2.5°	78.9	78.9	78.9	78.9	78.4	77.9	77.4	76.9	76.4	76.4	75.9
5°	89.5	90.0	89.5	89.0	88.0	87.5	86.0	84.9	83.4	82.9	81.4
7.5°	104.1	103.5	104.1	102.5	100.5	100.0	98.0	95.5	93.5	90.5	88.5
10°	125.2	124.7	125.2	122.1	119.1	116.6	113.1	110.1	105.6	102.0	98.0
12.5°	158.8	158.8	157.8	153.8	149.8	144.3	138.7	132.2	124.2	117.1	110.6
15°	210.6	208.1	203.6	201.1	194.0	185.5	179.5	166.4	154.8	143.8	130.7
17.5°	272.9	267.9	264.4	258.9	249.8	238.8	228.7	209.6	198.0	180.0	161.4
20°	344.3	338.3	337.3	328.7	319.2	307.1	292.5	269.9	250.3	227.7	201.6
22.5°	417.2	418.2	414.2	408.2	398.6	384.5	361.9	341.3	317.2	288.5	254.8
25°	498.6	498.1	494.6	487.6	480.5	463.0	444.9	425.3	396.6	359.9	319.7
27.5°	575.0	574.5	566.0	566.5	552.9	546.4	528.8	507.7	473.0	442.3	398.6
30°	655.0	649.9	644.4	640.4	630.8	619.3	610.2	585.1	559.0	522.8	487.1
32.5°	735.9	730.4	731.9	726.8	719.3	707.7	694.2	673.6	645.4	610.2	577.1
35°	834.9	832.4	828.4	829.9	828.4	819.8	808.3	781.1	750.5	716.8	682.6
37.5°	908.3	905.8	908.3	918.9	921.4	926.9	918.4	904.8	882.7	846.0	810.3
40°	976.2	976.7	988.2	1001.3	1010.4	1028.4	1031.5	1025.9	1008.3	974.7	927.9
42.5°	1037.0	1044.5	1055.1	1076.7	1096.3	1121.9	1141.0	1144.1	1131.0	1108.9	1061.6
45°	1104.9	1111.4	1128.0	1153.6	1180.8	1212.4	1243.1	1259.2	1258.2	1242.6	1191.8
47.5°	1180.8	1189.3	1207.4	1228.5	1264.7	1300.4	1340.1	1368.7	1380.8	1359.2	1309.9
50°	1272.7	1276.3	1291.8	1319.0	1352.2	1393.4	1436.6	1478.3	1502.0	1481.8	1431.1
52.5°	1381.8	1382.8	1397.4	1422.5	1449.2	1494.4	1536.6	1594.4	1625.1	1614.0	1553.2
55°	1531.6	1528.6	1538.6	1560.3	1581.9	1625.6	1667.8	1733.2	1777.9	1778.9	1714.1
57.5°	1736.2	1729.2	1735.7	1752.8	1776.9	1817.6	1870.9	1928.7	1988.5	1984.5	1931.2
60°	2021.2	2018.7	2030.8	2059.4	2100.6	2142.8	2203.2	2281.1	2333.9	2352.0	2296.2
62.5°	2210.7	2217.7	2245.4	2289.6	2369.0	2456.5	2568.6	2687.7	2788.3	2833.5	2756.6
65°	2129.3	2140.8	2184.1	2249.4	2354.5	2485.7	2634.5	2830.0	3003.4	3072.3	2992.3
66°	2060.4	2079.0	2119.7	2189.1	2298.7	2441.9	2597.3	2813.4	3008.4	3085.8	3004.4
67.5°	1941.3	1954.4	2000.6	2077.5	2195.1	2336.9	2504.8	2733.0	2953.1	3035.1	2954.1
70°	1698.5	1703.5	1741.2	1806.6	1897.6	2042.8	2195.1	2414.8	2617.4	2732.5	2644.0
72.5°	1264.2	1271.2	1333.6	1452.7	1570.8	1653.3	1743.2	1919.2	2049.9	2157.4	2140.3
75°	608.2	611.2	653.0	826.9	1057.1	1155.6	1239.1	1375.3	1425.0	1515.0	1501.5
77.5°	385.5	392.1	419.2	461.4	592.1	709.3	775.1	853.0	867.6	943.5	899.3
80°	106.1	123.2	150.3	221.2	379.5	452.4	482.1	479.0	482.1	458.9	443.9
82.5°	21.6	21.1	25.6	39.7	167.4	263.4	284.5	242.3	240.8	231.7	239.3
85°	5.5	5.0	6.0	12.6	28.7	77.9	98.0	54.8	41.7	39.7	35.2
87.5°	1.5	1.5	1.5	2.5	3.0	4.0	5.5	4.0	3.0	3.0	3.0
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°	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
2.5°	75.4	75.4	74.9	74.4	74.4	73.9	73.4	72.9	72.4	71.9	71.4
5°	79.9	78.9	77.4	76.4	75.4	73.9	72.9	71.9	70.9	70.4	69.4
7.5°	86.0	83.4	81.4	78.4	76.4	74.4	72.4	70.9	69.4	68.4	67.4
10°	93.5	89.5	85.5	81.4	77.9	74.9	71.9	69.4	67.9	66.4	65.3
12.5°	103.0	97.0	91.5	85.5	79.9	75.4	71.4	68.4	66.4	64.8	63.3
15°	118.6	109.1	99.5	90.5	83.4	76.4	70.9	67.4	64.8	63.3	61.8
17.5°	143.3	126.2	111.1	98.5	87.0	77.9	70.9	66.4	63.3	61.3	59.8
20°	178.9	150.8	126.7	108.6	93.5	80.4	70.9	64.8	61.8	59.3	57.8
22.5°	221.2	186.0	152.8	122.6	101.0	83.9	70.9	63.3	59.8	57.8	55.8
25°	283.0	236.3	191.0	148.8	113.6	89.5	72.4	62.3	58.3	55.8	53.8
27.5°	355.4	299.1	242.8	183.5	132.7	97.5	74.4	61.3	56.8	53.8	51.8
30°	437.8	375.5	306.6	229.7	157.8	108.1	77.9	60.8	54.8	51.8	49.3
32.5°	527.3	461.4	386.0	289.0	195.0	124.2	82.4	60.3	52.8	49.3	46.2
35°	633.9	572.5	480.5	372.5	252.8	151.8	92.5	61.3	50.8	46.7	43.2
37.5°	750.5	685.1	587.6	460.9	310.1	183.0	100.0	59.8	47.3	43.2	39.7
40°	868.1	793.2	694.2	553.9	383.0	221.2	109.6	58.3	43.7	39.7	36.2
42.5°	982.7	903.8	796.2	649.4	459.9	266.4	121.6	58.3	41.2	36.2	32.7
45°	1102.8	1007.8	890.2	740.9	536.3	318.2	138.7	57.8	38.2	33.2	29.2
47.5°	1216.4	1103.8	968.6	821.4	618.3	375.0	158.3	58.3	35.7	30.2	26.6
50°	1324.0	1194.8	1049.1	893.2	696.7	436.3	182.5	58.8	33.2	27.6	24.1
52.5°	1441.6	1298.4	1135.5	967.1	774.1	498.1	210.6	59.8	30.7	25.1	22.1
55°	1587.4	1428.6	1242.1	1057.6	856.0	560.5	237.8	60.8	28.1	23.1	20.1
57.5°	1797.5	1616.6	1415.0	1193.3	964.6	631.3	265.9	63.3	26.1	21.6	18.6
60°	2139.3	1923.7	1691.0	1429.6	1127.0	727.4	306.6	68.9	23.6	19.6	17.6
62.5°	2550.5	2291.1	1995.1	1677.9	1279.8	792.2	333.8	74.9	21.6	18.1	16.6
65°	2757.6	2430.9	2089.6	1747.3	1299.4	773.1	322.7	72.9	19.1	16.1	14.1
66°	2763.6	2423.3	2076.5	1732.2	1279.3	750.0	312.2	71.9	18.6	15.6	13.1
67.5°	2706.3	2358.5	2007.1	1663.8	1220.0	705.2	293.1	68.4	17.1	14.1	11.6
70°	2423.3	2084.5	1762.3	1445.2	1049.6	594.1	245.8	60.3	15.1	12.6	10.6
72.5°	1931.7	1655.8	1384.3	1137.0	815.8	445.9	194.0	49.3	13.1	11.1	9.0
75°	1349.1	1122.4	915.9	739.4	512.7	266.9	125.7	34.7	11.1	9.0	7.5
77.5°	753.0	597.2	451.4	343.8	204.6	83.4	41.7	17.6	9.6	7.0	6.0
80°	383.0	284.0	216.1	159.3	94.5	43.2	21.1	11.6	7.5	5.5	5.0
82.5°	222.7	163.4	130.2	103.0	64.8	32.7	17.1	8.5	5.0	4.0	4.5
85°	49.8	65.8	55.8	47.3	34.7	20.6	12.1	5.5	3.5	3.5	4.0
87.5°	4.0	5.5	5.0	6.5	7.0	6.5	5.0	3.0	2.5	3.0	3.0
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°	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9	72.9
2.5°	70.9	70.4	70.4	69.9	69.4	69.4	69.4	68.9	69.4	69.4	69.4
5°	68.9	68.4	67.9	67.4	66.9	66.4	66.4	65.8	65.8	65.8	66.4
7.5°	66.9	65.8	65.3	64.3	63.8	63.3	63.3	62.8	62.8	62.8	62.8
10°	64.3	63.3	62.3	61.8	61.3	60.3	60.3	59.8	59.3	59.3	59.3
12.5°	62.3	61.3	60.3	59.3	58.3	57.8	57.3	56.8	56.3	56.3	56.3
15°	60.3	58.8	57.8	56.8	55.8	54.8	54.3	53.8	53.3	52.8	52.8
17.5°	58.3	56.8	55.3	54.3	53.3	52.3	51.8	50.3	50.3	49.8	49.8
20°	55.8	54.3	52.8	51.8	50.8	49.8	48.8	47.8	46.7	46.2	46.2
22.5°	53.8	52.3	50.8	49.3	47.8	46.2	45.2	44.2	43.7	43.2	42.7
25°	51.8	49.8	47.8	46.2	44.7	43.2	42.2	41.2	40.2	39.7	39.7
27.5°	49.3	47.3	45.2	43.2	41.7	40.2	39.2	37.7	37.2	36.7	36.2
30°	46.7	44.2	42.2	40.2	38.7	36.7	35.7	34.7	33.7	33.7	33.2
32.5°	43.7	41.2	39.2	37.2	35.2	33.7	32.7	31.7	31.2	30.2	30.2
35°	40.7	38.2	35.7	33.7	32.2	30.7	29.7	28.7	27.6	27.1	27.1
37.5°	37.2	34.7	32.7	30.7	29.2	27.6	26.6	25.6	25.1	24.6	24.1
40°	33.2	30.7	29.2	27.6	26.1	25.1	23.6	22.6	22.1	21.6	21.1
42.5°	29.7	27.1	26.1	25.1	23.6	22.6	21.1	20.1	19.1	18.6	18.1
45°	26.6	24.6	23.6	22.6	21.1	19.6	18.6	17.6	16.6	16.1	16.1
47.5°	23.6	22.1	21.1	20.1	18.6	17.6	16.1	15.6	14.6	14.6	14.6
50°	21.6	20.1	19.1	18.1	17.1	15.6	14.6	14.1	13.6	13.6	14.1
52.5°	20.1	18.6	17.6	16.6	15.6	14.6	13.6	13.1	13.1	13.6	14.1
55°	18.6	17.1	16.1	15.1	14.1	13.6	12.6	12.6	13.1	13.6	14.1
57.5°	17.6	15.6	14.6	14.1	13.1	12.6	12.6	12.6	13.1	13.6	14.6
60°	16.1	14.1	13.1	13.1	12.1	12.1	12.1	12.6	13.1	14.1	14.6
62.5°	14.1	12.6	12.1	12.1	11.6	11.6	12.1	12.6	13.6	14.1	14.6
65°	12.1	11.1	11.1	11.1	11.1	11.6	12.1	12.6	13.1	14.1	14.6
66°	11.1	10.6	10.6	11.1	11.1	11.6	12.1	12.6	13.1	13.6	14.1
67.5°	10.6	10.1	10.1	10.6	11.1	11.1	11.6	12.6	13.1	13.6	13.6
70°	9.0	9.0	9.0	10.1	10.6	11.1	11.6	12.1	12.6	13.1	13.6
72.5°	8.0	8.0	8.5	9.0	10.1	10.6	11.1	11.6	12.6	13.1	13.1
75°	7.0	7.0	8.0	8.5	9.6	10.1	11.1	11.6	12.1	12.6	12.6
77.5°	6.0	6.5	7.5	8.5	9.0	10.1	10.6	11.1	11.6	12.1	12.1
80°	5.5	6.5	7.5	8.0	8.5	9.0	9.6	10.6	11.1	11.6	12.1
82.5°	5.5	6.0	7.0	7.5	8.0	9.0	9.6	10.1	10.6	11.1	11.6
85°	4.5	5.5	6.0	7.0	7.5	8.5	9.0	9.0	9.6	10.1	10.6
87.5°	3.5	4.0	4.0	5.0	5.5	6.5	7.5	7.5	8.0	8.5	9.0
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):**

	165°	170°	175°	180°
0°	72.9	72.9	72.9	72.9
2.5°	69.4	69.9	69.9	69.9
5°	66.4	66.4	66.4	66.4
7.5°	62.8	62.8	62.8	62.8
10°	59.3	59.3	59.8	59.3
12.5°	56.3	55.8	55.8	55.8
15°	52.8	52.8	52.3	52.8
17.5°	49.3	49.3	48.8	48.8
20°	45.7	45.7	45.7	45.7
22.5°	42.7	42.2	42.2	42.2
25°	39.2	39.2	39.2	39.2
27.5°	36.2	36.2	36.2	36.2
30°	33.2	33.2	32.7	32.7
32.5°	30.2	30.2	30.2	30.2
35°	27.1	27.1	26.6	26.6
37.5°	23.6	23.6	23.6	23.6
40°	20.6	20.6	20.6	20.6
42.5°	18.1	18.1	17.6	17.6
45°	15.6	15.6	15.6	15.6
47.5°	14.6	14.6	14.6	14.6
50°	14.1	14.6	14.6	14.6
52.5°	14.6	14.6	14.6	14.6
55°	14.6	15.1	15.1	15.1
57.5°	14.6	15.1	15.1	15.6
60°	15.1	15.6	15.6	15.6
62.5°	15.1	15.6	15.6	15.6
65°	14.6	15.1	15.1	15.1
66°	14.6	14.6	14.6	15.1
67.5°	14.1	14.6	14.6	14.6
70°	13.6	14.1	14.1	14.6
72.5°	13.6	14.1	14.1	14.1
75°	13.1	13.1	13.6	13.6
77.5°	12.6	12.6	13.1	13.1
80°	12.1	12.6	12.6	12.6
82.5°	11.6	12.1	12.1	12.1
85°	10.6	11.1	11.1	11.1
87.5°	9.0	9.0	9.6	9.6
90°	0.0	0.0	0.0	0.0

(END OF REPORT)