

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: P156296

Luminaire Tested: **AVM-F03-LED-E-U-T4-HSS-7050**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156296  
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-F03-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: (21) 5000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 4914.8 lumens  
Efficiency: N/A  
Efficacy: 62.8 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

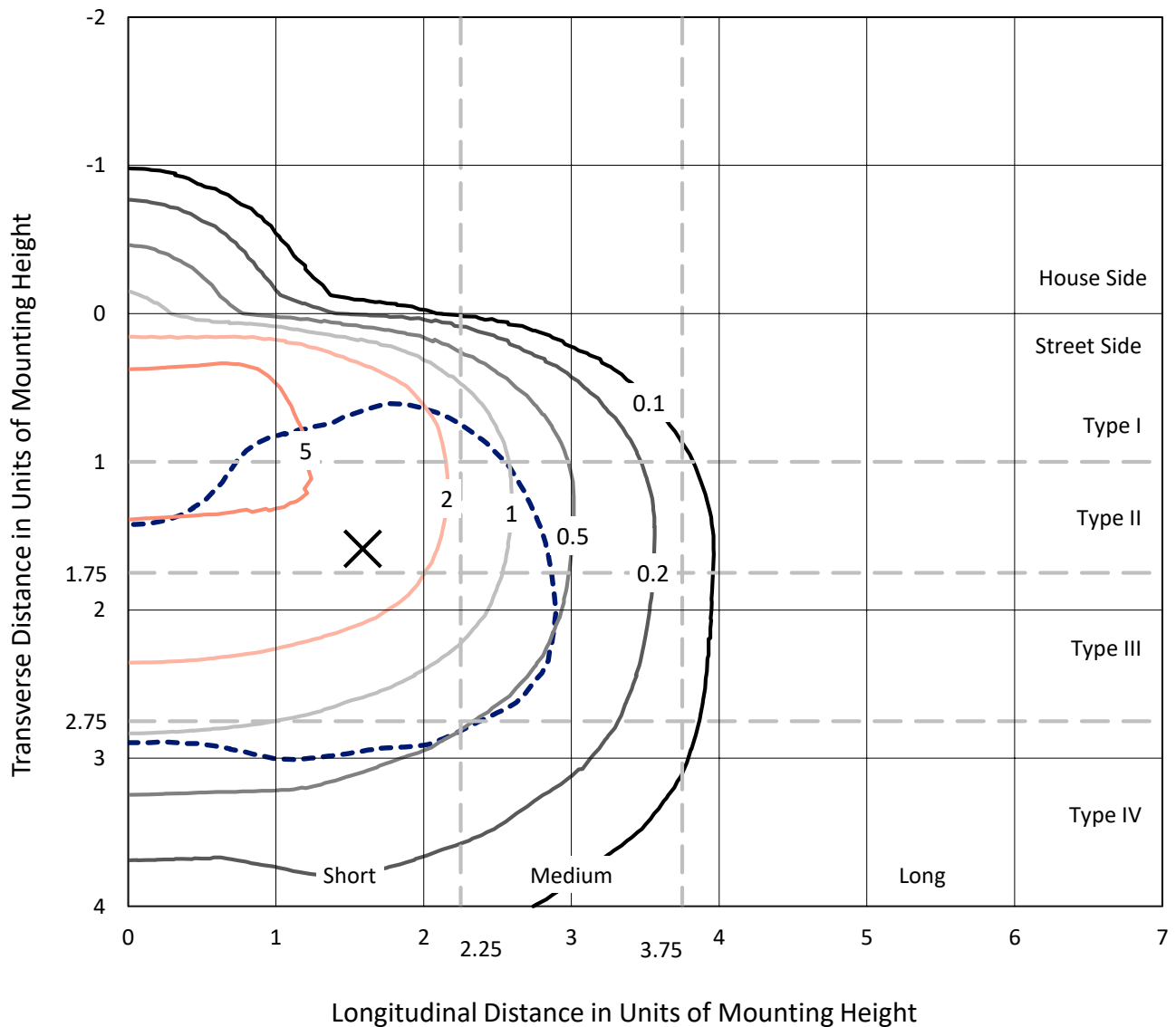
Input Watts (W): 78.3  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

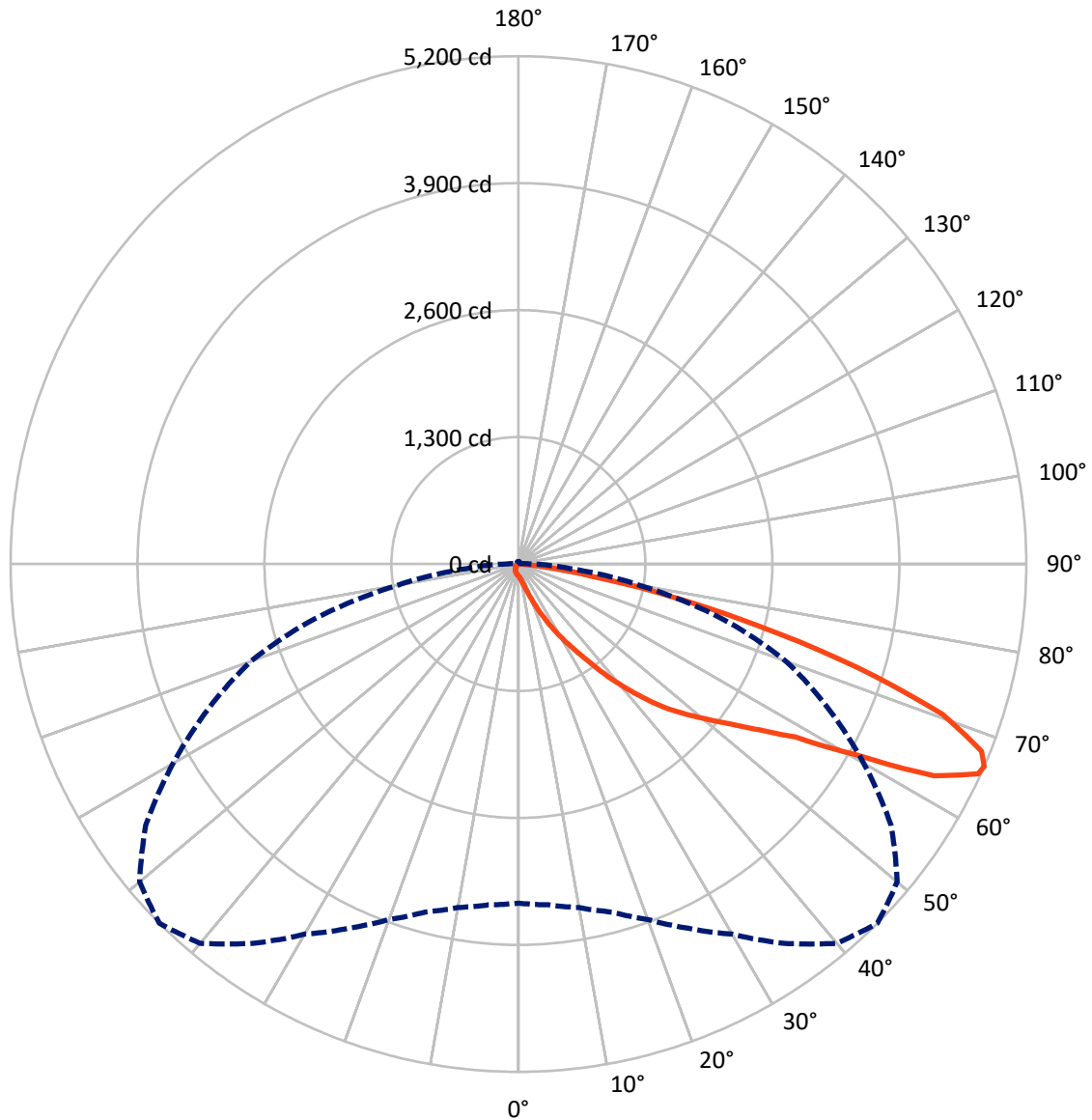
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.8 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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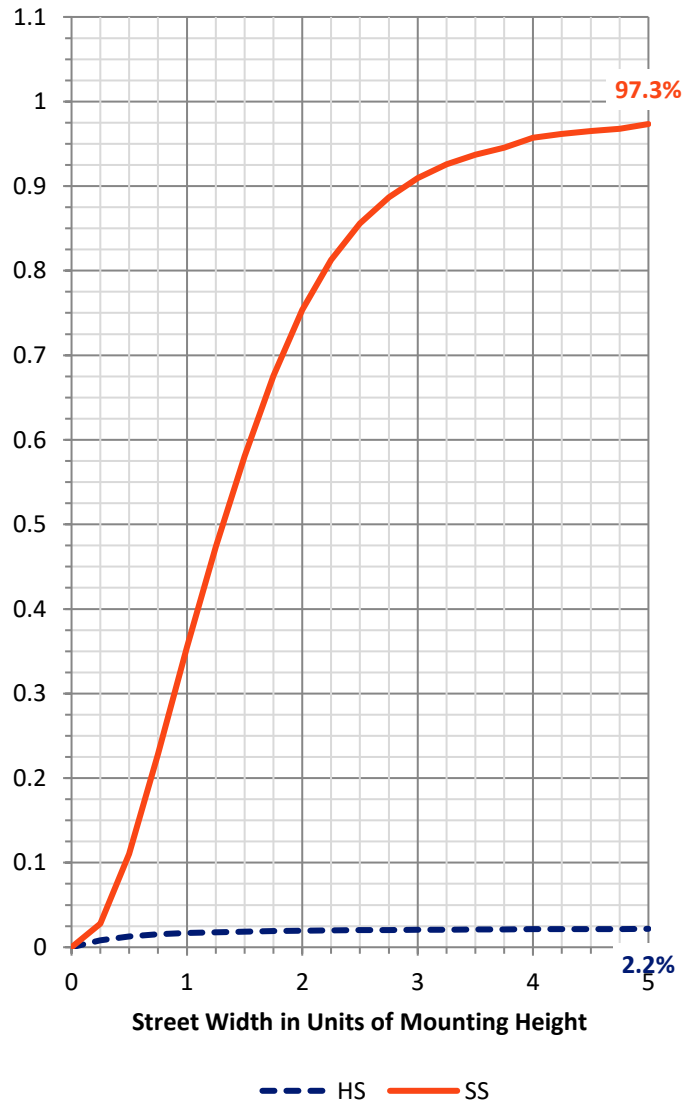
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	111.4	0.0	111.4
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	4803.4	0.0	4803.4
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	4914.8	0.0	4914.8
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	12.4	0.3
10°-20°	50.1	1.0
20°-30°	146.8	3.0
30°-40°	343.0	7.0
40°-50°	644.3	13.1
50°-60°	1067.7	21.7
60°-70°	1694.9	34.5
70°-80°	876.5	17.8
80°-90°	79.2	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°	4914.8	100.0
0°-180°	4914.8	100.0



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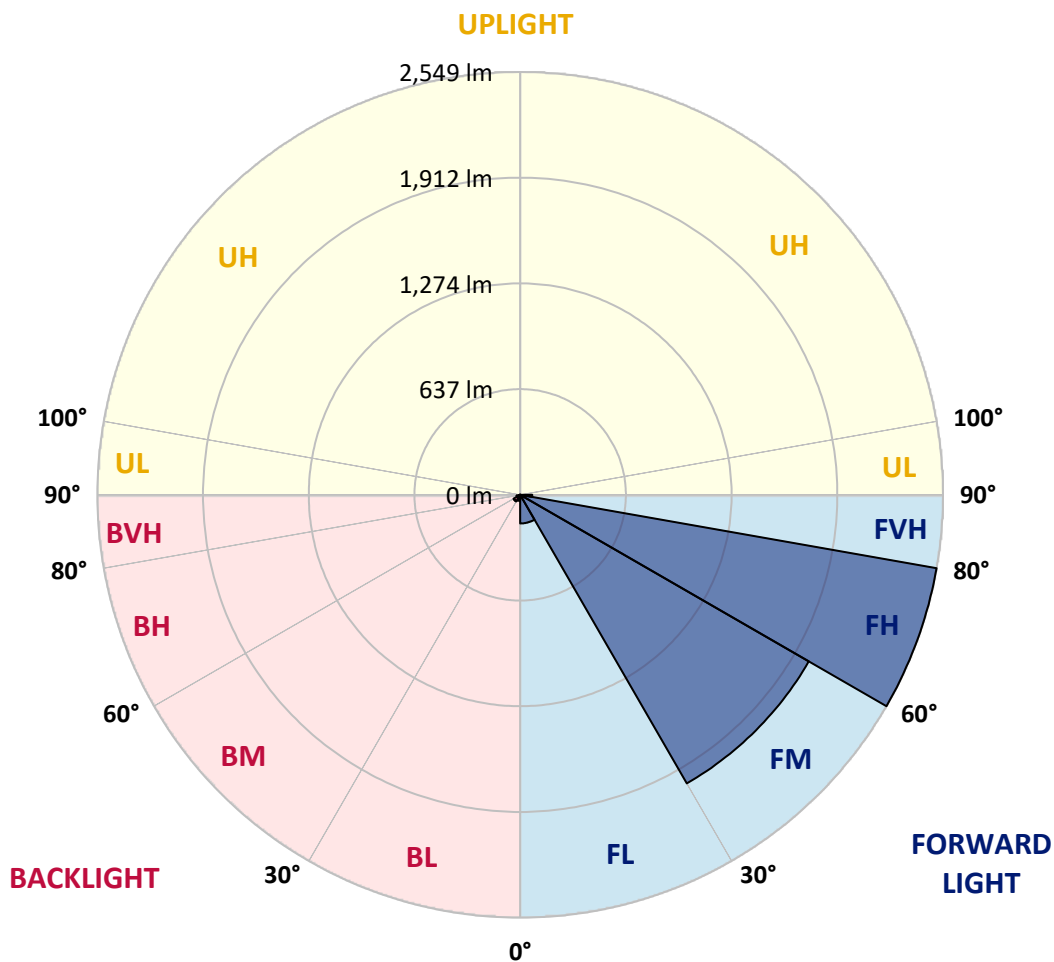
CATALOG NUMBER: AVM-F03-LED-E-U-T4-HSS-7050

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	172.9	3.5			
FM	(30°-60°)	2008.7	40.9			
FH	(60°-80°)	2548.9	51.9			G2/5000
FVH	(80°-90°)	72.9	1.5			G1/100
BL	(0°-30°)	36.4	0.7	B0/110		
BM	(30°-60°)	46.2	0.9	B0/220		
BH	(60°-80°)	22.6	0.5	B0/110		G0/110
BVH	(80°-90°)	6.3	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°	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8
2.5°	133.0	133.0	133.0	133.0	132.1	131.3	130.4	129.6	128.8	128.8	127.9
5°	150.8	151.6	150.8	149.9	148.2	147.4	144.8	143.2	140.6	139.8	137.2
7.5°	175.3	174.5	175.3	172.8	169.4	168.6	165.2	160.9	157.6	152.5	149.1
10°	210.9	210.1	210.9	205.8	200.8	196.5	190.6	185.5	177.9	172.0	165.2
12.5°	267.7	267.7	266.0	259.2	252.4	243.1	233.8	222.8	209.2	197.4	186.4
15°	354.9	350.7	343.1	338.8	327.0	312.6	302.4	280.4	260.9	242.3	220.2
17.5°	460.0	451.5	445.6	436.2	421.0	402.4	385.4	353.2	333.7	303.3	271.9
20°	580.2	570.1	568.4	554.0	537.9	517.6	493.0	454.9	421.8	383.7	339.7
22.5°	703.1	704.8	698.0	687.8	671.7	648.0	609.9	575.2	534.5	486.2	429.5
25°	840.3	839.5	833.5	821.7	809.8	780.2	749.7	716.6	668.3	606.5	538.7
27.5°	969.1	968.2	953.8	954.7	931.8	920.8	891.1	855.5	797.1	745.4	671.7
30°	1103.7	1095.3	1086.0	1079.2	1063.1	1043.6	1028.3	986.0	941.9	881.0	820.8
32.5°	1240.1	1230.8	1233.3	1224.9	1212.2	1192.7	1169.8	1135.1	1087.6	1028.3	972.4
35°	1407.0	1402.8	1396.0	1398.5	1396.0	1381.6	1362.1	1316.4	1264.7	1207.9	1150.3
37.5°	1530.7	1526.4	1530.7	1548.5	1552.7	1562.0	1547.6	1524.7	1487.5	1425.6	1365.5
40°	1645.0	1645.9	1665.4	1687.4	1702.6	1733.1	1738.2	1728.9	1699.2	1642.5	1563.7
42.5°	1747.5	1760.2	1778.0	1814.4	1847.5	1890.7	1922.9	1927.9	1905.9	1868.6	1789.0
45°	1861.9	1872.9	1900.8	1944.0	1989.8	2043.1	2094.8	2121.9	2120.2	2094.0	2008.4
47.5°	1989.8	2004.2	2034.7	2070.3	2131.2	2191.4	2258.3	2306.6	2326.9	2290.5	2207.5
50°	2144.8	2150.7	2177.0	2222.7	2278.6	2348.1	2420.9	2491.2	2531.1	2497.2	2411.6
52.5°	2328.6	2330.3	2354.9	2397.2	2442.1	2518.4	2589.5	2686.9	2738.6	2720.0	2617.5
55°	2581.0	2576.0	2592.9	2629.3	2665.7	2739.4	2810.6	2920.7	2996.1	2997.8	2888.5
57.5°	2925.8	2913.9	2925.0	2953.8	2994.4	3063.0	3152.8	3250.2	3351.0	3344.3	3254.5
60°	3406.1	3401.9	3422.2	3470.5	3539.9	3611.1	3712.7	3844.0	3933.0	3963.5	3869.4
62.5°	3725.4	3737.3	3783.9	3858.4	3992.3	4139.7	4328.6	4529.3	4698.7	4775.0	4645.4
65°	3588.2	3607.7	3680.5	3790.7	3967.7	4188.8	4439.5	4769.0	5061.3	5177.3	5042.6
66°	3472.2	3503.5	3572.1	3689.0	3873.7	4115.1	4376.8	4741.1	5069.7	5200.2	5063.0
67.5°	3271.4	3293.4	3371.4	3501.0	3699.2	3938.1	4221.0	4605.6	4976.6	5114.6	4978.3
70°	2862.3	2870.7	2934.3	3044.4	3197.7	3442.5	3699.2	4069.4	4410.7	4604.7	4455.6
72.5°	2130.4	2142.3	2247.3	2448.0	2647.1	2786.0	2937.7	3234.1	3454.4	3635.6	3606.8
75°	1025.0	1030.0	1100.4	1393.4	1781.4	1947.4	2088.0	2317.6	2401.5	2553.1	2530.2
77.5°	649.7	660.7	706.5	777.6	997.9	1195.2	1306.2	1437.5	1462.1	1590.0	1515.4
80°	178.7	207.5	253.3	372.7	639.5	762.4	812.3	807.3	812.3	773.4	748.0
82.5°	36.4	35.6	43.2	66.9	282.1	443.9	479.4	408.3	405.7	390.5	403.2
85°	9.3	8.5	10.2	21.2	48.3	131.3	165.2	92.3	70.3	66.9	59.3
87.5°	2.5	2.5	2.5	4.2	5.1	6.8	9.3	6.8	5.1	5.1	5.1
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8
2.5°	127.1	127.1	126.2	125.4	125.4	124.5	123.7	122.8	122.0	121.1	120.3
5°	134.7	133.0	130.4	128.8	127.1	124.5	122.8	121.1	119.4	118.6	116.9
7.5°	144.8	140.6	137.2	132.1	128.8	125.4	122.0	119.4	116.9	115.2	113.5
10°	157.6	150.8	144.0	137.2	131.3	126.2	121.1	116.9	114.4	111.8	110.1
12.5°	173.7	163.5	154.2	144.0	134.7	127.1	120.3	115.2	111.8	109.3	106.7
15°	199.9	183.8	167.7	152.5	140.6	128.8	119.4	113.5	109.3	106.7	104.2
17.5°	241.4	212.6	187.2	166.0	146.5	131.3	119.4	111.8	106.7	103.3	100.8
20°	301.6	254.1	213.5	183.0	157.6	135.5	119.4	109.3	104.2	100.0	97.4
22.5°	372.7	313.4	257.5	206.7	170.3	141.5	119.4	106.7	100.8	97.4	94.0
25°	476.9	398.1	321.9	250.7	191.4	150.8	122.0	105.0	98.3	94.0	90.6
27.5°	598.9	504.0	409.1	309.2	223.6	164.3	125.4	103.3	95.7	90.6	87.2
30°	737.8	632.8	516.7	387.1	266.0	182.1	131.3	102.5	92.3	87.2	83.0
32.5°	888.6	777.6	650.6	487.1	328.7	209.2	138.9	101.6	88.9	83.0	77.9
35°	1068.2	964.8	809.8	627.7	426.1	255.8	155.9	103.3	85.6	78.8	72.8
37.5°	1264.7	1154.6	990.2	776.8	522.6	308.3	168.6	100.8	79.6	72.8	66.9
40°	1462.9	1336.7	1169.8	933.5	645.5	372.7	184.7	98.3	73.7	66.9	61.0
42.5°	1656.0	1523.0	1341.8	1094.4	775.1	449.0	205.0	98.3	69.5	61.0	55.1
45°	1858.5	1698.4	1500.2	1248.6	903.8	536.2	233.8	97.4	64.4	55.9	49.1
47.5°	2049.9	1860.2	1632.3	1384.1	1041.9	631.9	266.8	98.3	60.1	50.8	44.9
50°	2231.2	2013.5	1767.8	1505.3	1174.0	735.3	307.5	99.1	55.9	46.6	40.7
52.5°	2429.4	2188.0	1913.5	1629.8	1304.5	839.5	354.9	100.8	51.7	42.4	37.3
55°	2675.1	2407.4	2093.1	1782.2	1442.6	944.5	400.7	102.5	47.4	39.0	33.9
57.5°	3029.1	2724.2	2384.5	2011.0	1625.5	1063.9	448.1	106.7	44.0	36.4	31.3
60°	3605.2	3241.8	2849.6	2409.1	1899.1	1225.7	516.7	116.0	39.8	33.0	29.6
62.5°	4298.1	3861.0	3362.0	2827.5	2156.7	1335.0	562.5	126.2	36.4	30.5	28.0
65°	4647.1	4096.5	3521.3	2944.4	2189.7	1302.8	543.8	122.8	32.2	27.1	23.7
66°	4657.2	4083.8	3499.3	2919.0	2155.8	1263.8	526.0	121.1	31.3	26.3	22.0
67.5°	4560.7	3974.5	3382.4	2803.8	2055.9	1188.4	493.8	115.2	28.8	23.7	19.5
70°	4083.8	3512.8	2969.8	2435.3	1768.7	1001.2	414.2	101.6	25.4	21.2	17.8
72.5°	3255.3	2790.3	2332.8	1916.1	1374.8	751.4	327.0	83.0	22.0	18.6	15.2
75°	2273.6	1891.5	1543.4	1246.0	864.0	449.8	211.8	58.4	18.6	15.2	12.7
77.5°	1268.9	1006.3	760.7	579.4	344.8	140.6	70.3	29.6	16.1	11.9	10.2
80°	645.5	478.6	364.2	268.5	159.3	72.8	35.6	19.5	12.7	9.3	8.5
82.5°	375.3	275.3	219.4	173.7	109.3	55.1	28.8	14.4	8.5	6.8	7.6
85°	83.9	111.0	94.0	79.6	58.4	34.7	20.3	9.3	5.9	5.9	6.8
87.5°	6.8	9.3	8.5	11.0	11.9	11.0	8.5	5.1	4.2	5.1	5.1
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8	122.8
2.5°	119.4	118.6	118.6	117.7	116.9	116.9	116.9	116.0	116.9	116.9	116.9
5°	116.0	115.2	114.4	113.5	112.7	111.8	111.8	111.0	111.0	111.0	111.8
7.5°	112.7	111.0	110.1	108.4	107.6	106.7	106.7	105.9	105.9	105.9	105.9
10°	108.4	106.7	105.0	104.2	103.3	101.6	101.6	100.8	100.0	100.0	100.0
12.5°	105.0	103.3	101.6	100.0	98.3	97.4	96.6	95.7	94.9	94.9	94.9
15°	101.6	99.1	97.4	95.7	94.0	92.3	91.5	90.6	89.8	88.9	88.9
17.5°	98.3	95.7	93.2	91.5	89.8	88.1	87.2	84.7	84.7	83.9	83.9
20°	94.0	91.5	88.9	87.2	85.6	83.9	82.2	80.5	78.8	77.9	77.9
22.5°	90.6	88.1	85.6	83.0	80.5	77.9	76.2	74.5	73.7	72.8	72.0
25°	87.2	83.9	80.5	77.9	75.4	72.8	71.2	69.5	67.8	66.9	66.9
27.5°	83.0	79.6	76.2	72.8	70.3	67.8	66.1	63.5	62.7	61.8	61.0
30°	78.8	74.5	71.2	67.8	65.2	61.8	60.1	58.4	56.8	56.8	55.9
32.5°	73.7	69.5	66.1	62.7	59.3	56.8	55.1	53.4	52.5	50.8	50.8
35°	68.6	64.4	60.1	56.8	54.2	51.7	50.0	48.3	46.6	45.7	45.7
37.5°	62.7	58.4	55.1	51.7	49.1	46.6	44.9	43.2	42.4	41.5	40.7
40°	55.9	51.7	49.1	46.6	44.0	42.4	39.8	38.1	37.3	36.4	35.6
42.5°	50.0	45.7	44.0	42.4	39.8	38.1	35.6	33.9	32.2	31.3	30.5
45°	44.9	41.5	39.8	38.1	35.6	33.0	31.3	29.6	28.0	27.1	27.1
47.5°	39.8	37.3	35.6	33.9	31.3	29.6	27.1	26.3	24.6	24.6	24.6
50°	36.4	33.9	32.2	30.5	28.8	26.3	24.6	23.7	22.9	22.9	23.7
52.5°	33.9	31.3	29.6	28.0	26.3	24.6	22.9	22.0	22.0	22.9	23.7
55°	31.3	28.8	27.1	25.4	23.7	22.9	21.2	21.2	22.0	22.9	23.7
57.5°	29.6	26.3	24.6	23.7	22.0	21.2	21.2	21.2	22.0	22.9	24.6
60°	27.1	23.7	22.0	22.0	20.3	20.3	20.3	21.2	22.0	23.7	24.6
62.5°	23.7	21.2	20.3	20.3	19.5	19.5	20.3	21.2	22.9	23.7	24.6
65°	20.3	18.6	18.6	18.6	18.6	19.5	20.3	21.2	22.0	23.7	24.6
66°	18.6	17.8	17.8	18.6	18.6	19.5	20.3	21.2	22.0	22.9	23.7
67.5°	17.8	16.9	16.9	17.8	18.6	18.6	19.5	21.2	22.0	22.9	22.9
70°	15.2	15.2	15.2	16.9	17.8	18.6	19.5	20.3	21.2	22.0	22.9
72.5°	13.6	13.6	14.4	15.2	16.9	17.8	18.6	19.5	21.2	22.0	22.0
75°	11.9	11.9	13.6	14.4	16.1	16.9	18.6	19.5	20.3	21.2	21.2
77.5°	10.2	11.0	12.7	14.4	15.2	16.9	17.8	18.6	19.5	20.3	20.3
80°	9.3	11.0	12.7	13.6	14.4	15.2	16.1	17.8	18.6	19.5	20.3
82.5°	9.3	10.2	11.9	12.7	13.6	15.2	16.1	16.9	17.8	18.6	19.5
85°	7.6	9.3	10.2	11.9	12.7	14.4	15.2	15.2	16.1	16.9	17.8
87.5°	5.9	6.8	6.8	8.5	9.3	11.0	12.7	12.7	13.6	14.4	15.2
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):**

	165°	170°	175°	180°
0°	122.8	122.8	122.8	122.8
2.5°	116.9	117.7	117.7	117.7
5°	111.8	111.8	111.8	111.8
7.5°	105.9	105.9	105.9	105.9
10°	100.0	100.0	100.8	100.0
12.5°	94.9	94.0	94.0	94.0
15°	88.9	88.9	88.1	88.9
17.5°	83.0	83.0	82.2	82.2
20°	77.1	77.1	77.1	77.1
22.5°	72.0	71.2	71.2	71.2
25°	66.1	66.1	66.1	66.1
27.5°	61.0	61.0	61.0	61.0
30°	55.9	55.9	55.1	55.1
32.5°	50.8	50.8	50.8	50.8
35°	45.7	45.7	44.9	44.9
37.5°	39.8	39.8	39.8	39.8
40°	34.7	34.7	34.7	34.7
42.5°	30.5	30.5	29.6	29.6
45°	26.3	26.3	26.3	26.3
47.5°	24.6	24.6	24.6	24.6
50°	23.7	24.6	24.6	24.6
52.5°	24.6	24.6	24.6	24.6
55°	24.6	25.4	25.4	25.4
57.5°	24.6	25.4	25.4	26.3
60°	25.4	26.3	26.3	26.3
62.5°	25.4	26.3	26.3	26.3
65°	24.6	25.4	25.4	25.4
66°	24.6	24.6	24.6	25.4
67.5°	23.7	24.6	24.6	24.6
70°	22.9	23.7	23.7	24.6
72.5°	22.9	23.7	23.7	23.7
75°	22.0	22.0	22.9	22.9
77.5°	21.2	21.2	22.0	22.0
80°	20.3	21.2	21.2	21.2
82.5°	19.5	20.3	20.3	20.3
85°	17.8	18.6	18.6	18.6
87.5°	15.2	15.2	16.1	16.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)