

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: P156289

Luminaire Tested: **AVM-E03-LED-E-U-T4-HSS-7030**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P156289  
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-7030  
Description: VISION SITE MEDIUM LED LUMINAIRE  
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD  
Light Source: (63) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 5299.4 lumens  
Efficiency: N/A  
Efficacy: 70.5 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

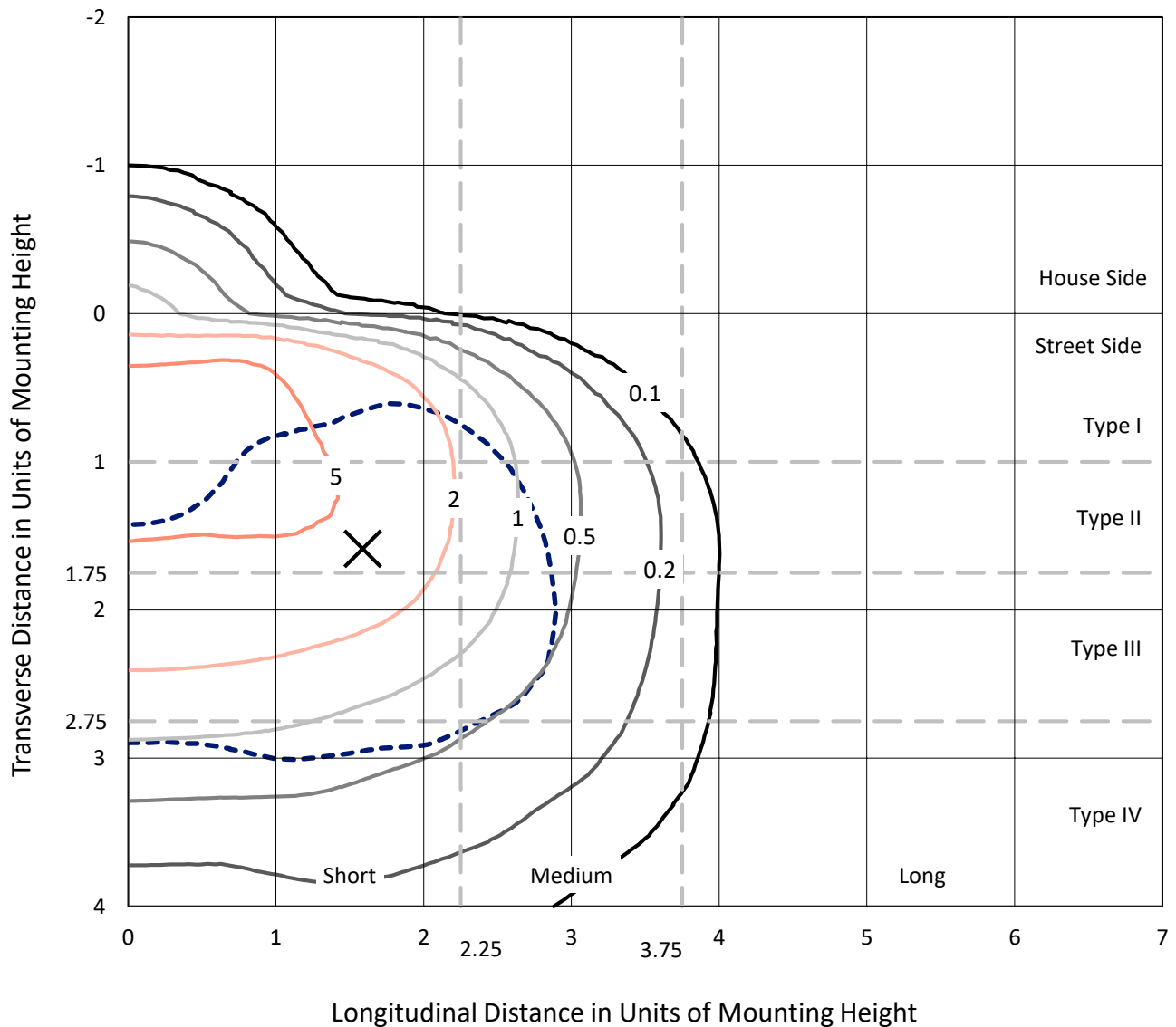
Input Watts (W): 75.2  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 28.75 FT



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### Iso-Footcandle Lines of Horizontal Illumination

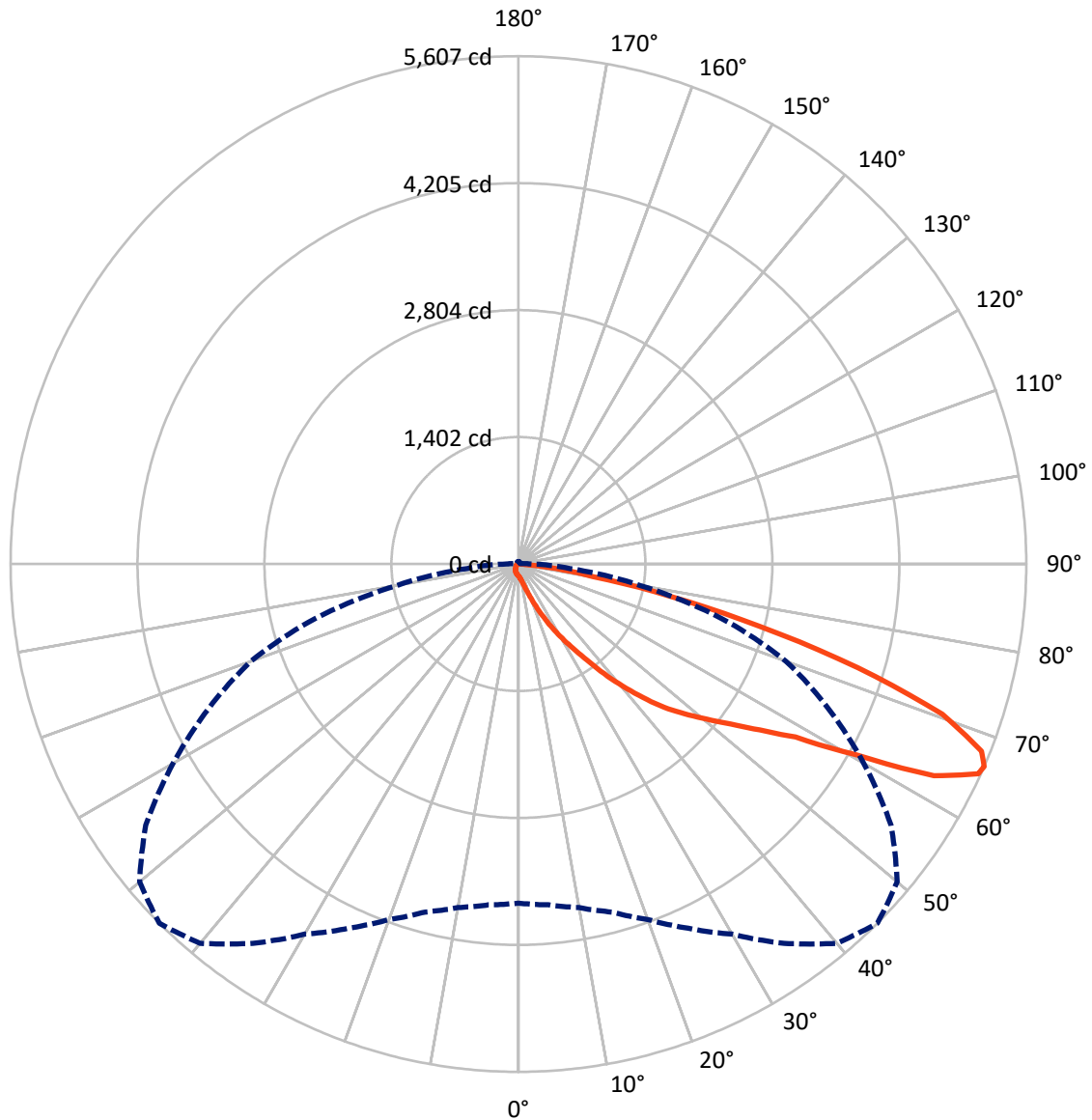
✕ Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 8.4 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	120.1	0.0	120.1
	% Fixture	2.3	0.0	2.3
<b>Street Side</b>	Lumens	5179.2	0.0	5179.2
	% Fixture	97.7	0.0	97.7
<b>Total</b>	Lumens	5299.4	0.0	5299.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	13.3	0.3
10°-20°	54.0	1.0
20°-30°	158.3	3.0
30°-40°	369.8	7.0
40°-50°	694.7	13.1
50°-60°	1151.2	21.7
60°-70°	1827.5	34.5
70°-80°	945.1	17.8
80°-90°	85.4	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°	5299.4	100.0
0°-180°	5299.4	100.0



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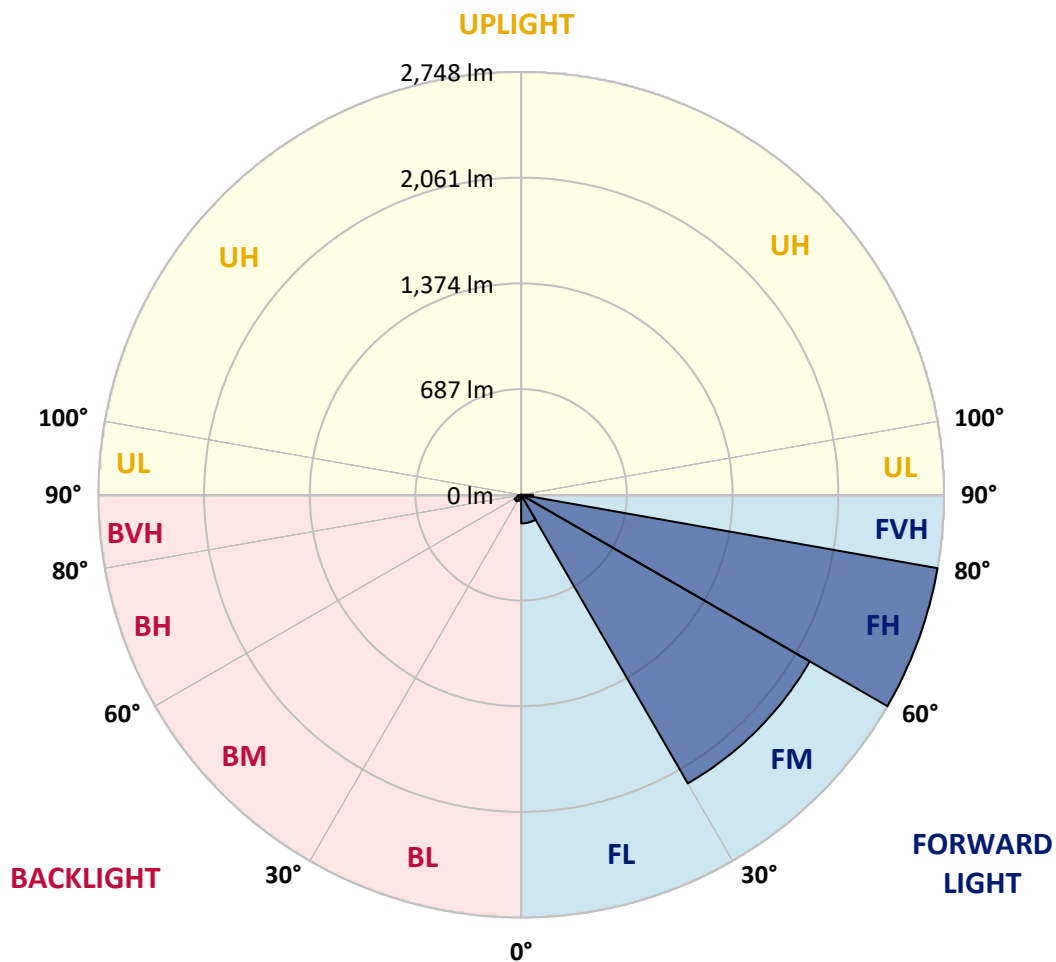
CATALOG NUMBER: AVM-E03-LED-E-U-T4-HSS-7030

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	186.5	3.5			
FM	(30°-60°)	2165.9	40.9			
FH	(60°-80°)	2748.3	51.9			G2/5000
FVH	(80°-90°)	78.6	1.5			G1/100
BL	(0°-30°)	39.2	0.7	B0/110		
BM	(30°-60°)	49.8	0.9	B0/220		
BH	(60°-80°)	24.3	0.5	B0/110		G0/110
BVH	(80°-90°)	6.7	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-G2**

Type IV Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4
2.5°	143.4	143.4	143.4	143.4	142.5	141.6	140.7	139.7	138.8	138.8	137.9
5°	162.6	163.5	162.6	161.7	159.8	158.9	156.2	154.4	151.6	150.7	148.0
7.5°	189.1	188.2	189.1	186.3	182.7	181.8	178.1	173.5	169.9	164.4	160.7
10°	227.4	226.5	227.4	221.9	216.5	211.9	205.5	200.0	191.8	185.4	178.1
12.5°	288.6	288.6	286.8	279.5	272.2	262.1	252.1	240.2	225.6	212.8	200.9
15°	382.7	378.1	369.9	365.3	352.6	337.0	326.1	302.3	281.3	261.2	237.5
17.5°	495.9	486.8	480.4	470.4	453.9	433.8	415.6	380.9	359.9	327.0	293.2
20°	625.6	614.7	612.9	597.3	580.0	558.1	531.6	490.5	454.8	413.7	366.3
22.5°	758.1	759.9	752.6	741.6	724.3	698.7	657.6	620.2	576.3	524.3	463.1
25°	906.0	905.1	898.7	885.9	873.2	841.2	808.3	772.7	720.6	654.0	580.9
27.5°	1044.9	1044.0	1028.4	1029.3	1004.7	992.8	960.8	922.5	859.5	803.7	724.3
30°	1190.1	1181.0	1170.9	1163.6	1146.3	1125.2	1108.8	1063.1	1015.6	949.9	885.0
32.5°	1337.1	1327.1	1329.8	1320.7	1307.0	1286.0	1261.3	1223.9	1172.7	1108.8	1048.5
35°	1517.1	1512.5	1505.2	1507.9	1505.2	1489.7	1468.7	1419.3	1363.6	1302.4	1240.3
37.5°	1650.4	1645.9	1650.4	1669.6	1674.2	1684.2	1668.7	1644.0	1603.8	1537.2	1472.3
40°	1773.7	1774.6	1795.6	1819.4	1835.8	1868.7	1874.2	1864.1	1832.2	1771.0	1686.0
42.5°	1884.2	1897.9	1917.1	1956.4	1992.0	2038.6	2073.3	2078.8	2055.0	2014.9	1929.0
45°	2007.5	2019.4	2049.6	2096.1	2145.5	2203.0	2258.7	2287.9	2286.1	2257.8	2165.6
47.5°	2145.5	2161.0	2193.9	2232.2	2298.0	2362.8	2435.0	2487.1	2509.0	2469.7	2380.2
50°	2312.6	2319.0	2347.3	2396.6	2456.9	2531.8	2610.4	2686.2	2729.1	2692.6	2600.3
52.5°	2510.8	2512.6	2539.1	2584.8	2633.2	2715.4	2792.1	2897.1	2952.9	2932.8	2822.3
55°	2783.0	2777.5	2795.8	2835.0	2874.3	2953.8	3030.5	3149.2	3230.5	3232.3	3114.5
57.5°	3154.7	3141.9	3153.8	3184.9	3228.7	3302.7	3399.5	3504.5	3613.2	3605.9	3509.1
60°	3672.6	3668.0	3689.9	3742.0	3816.9	3893.6	4003.2	4144.8	4240.7	4273.6	4172.2
62.5°	4016.9	4029.7	4079.9	4160.3	4304.6	4463.5	4667.2	4883.7	5066.4	5148.6	5008.8
65°	3869.0	3890.0	3968.5	4087.2	4278.1	4516.5	4786.9	5142.2	5457.3	5582.4	5437.2
66°	3743.8	3777.6	3851.6	3977.6	4176.8	4437.1	4719.3	5112.0	5466.4	5607.1	5459.1
67.5°	3527.4	3551.1	3635.1	3774.9	3988.6	4246.2	4551.2	4965.9	5365.9	5514.8	5367.8
70°	3086.2	3095.3	3163.8	3282.6	3447.9	3711.9	3988.6	4387.7	4755.8	4965.0	4804.2
72.5°	2297.1	2309.9	2423.1	2639.6	2854.2	3004.0	3167.5	3487.2	3724.6	3920.1	3889.0
75°	1105.2	1110.6	1186.4	1502.5	1920.8	2099.8	2251.4	2498.9	2589.3	2752.8	2728.2
77.5°	700.5	712.4	761.7	838.5	1075.9	1288.7	1408.4	1550.0	1576.4	1714.4	1634.0
80°	192.7	223.8	273.1	401.9	689.6	822.0	875.9	870.4	875.9	833.9	806.5
82.5°	39.3	38.4	46.6	72.2	304.1	478.6	517.0	440.2	437.5	421.1	434.8
85°	10.0	9.1	11.0	22.8	52.1	141.6	178.1	99.6	75.8	72.2	63.9
87.5°	2.7	2.7	2.7	4.6	5.5	7.3	10.0	7.3	5.5	5.5	5.5
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):**

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4
2.5°	137.0	137.0	136.1	135.2	135.2	134.3	133.3	132.4	131.5	130.6	129.7
5°	145.2	143.4	140.7	138.8	137.0	134.3	132.4	130.6	128.8	127.9	126.0
7.5°	156.2	151.6	148.0	142.5	138.8	135.2	131.5	128.8	126.0	124.2	122.4
10°	169.9	162.6	155.3	148.0	141.6	136.1	130.6	126.0	123.3	120.6	118.7
12.5°	187.2	176.3	166.2	155.3	145.2	137.0	129.7	124.2	120.6	117.8	115.1
15°	215.6	198.2	180.8	164.4	151.6	138.8	128.8	122.4	117.8	115.1	112.3
17.5°	260.3	229.3	201.9	179.0	158.0	141.6	128.8	120.6	115.1	111.4	108.7
20°	325.2	274.0	230.2	197.3	169.9	146.1	128.8	117.8	112.3	107.8	105.0
22.5°	401.9	337.9	277.7	222.9	183.6	152.5	128.8	115.1	108.7	105.0	101.4
25°	514.2	429.3	347.1	270.4	206.4	162.6	131.5	113.3	105.9	101.4	97.7
27.5°	645.7	543.4	441.1	333.4	241.1	177.2	135.2	111.4	103.2	97.7	94.1
30°	795.5	682.3	557.1	417.4	286.8	196.4	141.6	110.5	99.6	94.1	89.5
32.5°	958.1	838.5	701.5	525.2	354.4	225.6	149.8	109.6	95.9	89.5	84.0
35°	1151.7	1040.3	873.2	676.8	459.4	275.8	168.1	111.4	92.2	84.9	78.5
37.5°	1363.6	1244.9	1067.7	837.5	563.5	332.5	181.8	108.7	85.9	78.5	72.2
40°	1577.4	1441.3	1261.3	1006.5	696.0	401.9	199.1	105.9	79.5	72.2	65.8
42.5°	1785.6	1642.2	1446.7	1180.0	835.7	484.1	221.0	105.9	74.9	65.8	59.4
45°	2003.9	1831.3	1617.5	1346.3	974.5	578.2	252.1	105.0	69.4	60.3	53.0
47.5°	2210.3	2005.7	1760.0	1492.4	1123.4	681.4	287.7	105.9	64.8	54.8	48.4
50°	2405.8	2171.0	1906.2	1623.0	1265.9	792.8	331.5	106.9	60.3	50.2	43.8
52.5°	2619.5	2359.2	2063.3	1757.3	1406.6	905.1	382.7	108.7	55.7	45.7	40.2
55°	2884.4	2595.7	2256.9	1921.7	1555.4	1018.4	432.0	110.5	51.1	42.0	36.5
57.5°	3266.1	2937.3	2571.1	2168.3	1752.7	1147.2	483.2	115.1	47.5	39.3	33.8
60°	3887.2	3495.4	3072.5	2597.6	2047.7	1321.6	557.1	125.1	42.9	35.6	32.0
62.5°	4634.3	4163.1	3625.1	3048.8	2325.4	1439.4	606.5	136.1	39.3	32.9	30.1
65°	5010.6	4417.0	3796.8	3174.8	2361.0	1404.7	586.4	132.4	34.7	29.2	25.6
66°	5021.6	4403.3	3773.1	3147.4	2324.5	1362.7	567.2	130.6	33.8	28.3	23.7
67.5°	4917.5	4285.4	3647.0	3023.2	2216.7	1281.4	532.5	124.2	31.1	25.6	21.0
70°	4403.3	3787.7	3202.2	2625.9	1907.1	1079.6	446.6	109.6	27.4	22.8	19.2
72.5°	3510.0	3008.6	2515.4	2066.0	1482.4	810.1	352.6	89.5	23.7	20.1	16.4
75°	2451.4	2039.5	1664.1	1343.5	931.6	485.0	228.3	63.0	20.1	16.4	13.7
77.5°	1368.2	1085.1	820.2	624.7	371.7	151.6	75.8	32.0	17.4	12.8	11.0
80°	696.0	516.0	392.7	289.5	171.7	78.5	38.4	21.0	13.7	10.0	9.1
82.5°	404.6	296.8	236.6	187.2	117.8	59.4	31.1	15.5	9.1	7.3	8.2
85°	90.4	119.6	101.4	85.9	63.0	37.4	21.9	10.0	6.4	6.4	7.3
87.5°	7.3	10.0	9.1	11.9	12.8	11.9	9.1	5.5	4.6	5.5	5.5
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):**

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4	132.4
2.5°	128.8	127.9	127.9	127.0	126.0	126.0	126.0	125.1	126.0	126.0	126.0
5°	125.1	124.2	123.3	122.4	121.5	120.6	120.6	119.6	119.6	119.6	120.6
7.5°	121.5	119.6	118.7	116.9	116.0	115.1	115.1	114.2	114.2	114.2	114.2
10°	116.9	115.1	113.3	112.3	111.4	109.6	109.6	108.7	107.8	107.8	107.8
12.5°	113.3	111.4	109.6	107.8	105.9	105.0	104.1	103.2	102.3	102.3	102.3
15°	109.6	106.9	105.0	103.2	101.4	99.6	98.6	97.7	96.8	95.9	95.9
17.5°	105.9	103.2	100.5	98.6	96.8	95.0	94.1	91.3	91.3	90.4	90.4
20°	101.4	98.6	95.9	94.1	92.2	90.4	88.6	86.8	84.9	84.0	84.0
22.5°	97.7	95.0	92.2	89.5	86.8	84.0	82.2	80.4	79.5	78.5	77.6
25°	94.1	90.4	86.8	84.0	81.3	78.5	76.7	74.9	73.1	72.2	72.2
27.5°	89.5	85.9	82.2	78.5	75.8	73.1	71.2	68.5	67.6	66.7	65.8
30°	84.9	80.4	76.7	73.1	70.3	66.7	64.8	63.0	61.2	61.2	60.3
32.5°	79.5	74.9	71.2	67.6	63.9	61.2	59.4	57.5	56.6	54.8	54.8
35°	74.0	69.4	64.8	61.2	58.5	55.7	53.9	52.1	50.2	49.3	49.3
37.5°	67.6	63.0	59.4	55.7	53.0	50.2	48.4	46.6	45.7	44.8	43.8
40°	60.3	55.7	53.0	50.2	47.5	45.7	42.9	41.1	40.2	39.3	38.4
42.5°	53.9	49.3	47.5	45.7	42.9	41.1	38.4	36.5	34.7	33.8	32.9
45°	48.4	44.8	42.9	41.1	38.4	35.6	33.8	32.0	30.1	29.2	29.2
47.5°	42.9	40.2	38.4	36.5	33.8	32.0	29.2	28.3	26.5	26.5	26.5
50°	39.3	36.5	34.7	32.9	31.1	28.3	26.5	25.6	24.7	24.7	25.6
52.5°	36.5	33.8	32.0	30.1	28.3	26.5	24.7	23.7	23.7	24.7	25.6
55°	33.8	31.1	29.2	27.4	25.6	24.7	22.8	22.8	23.7	24.7	25.6
57.5°	32.0	28.3	26.5	25.6	23.7	22.8	22.8	22.8	23.7	24.7	26.5
60°	29.2	25.6	23.7	23.7	21.9	21.9	21.9	22.8	23.7	25.6	26.5
62.5°	25.6	22.8	21.9	21.9	21.0	21.0	21.9	22.8	24.7	25.6	26.5
65°	21.9	20.1	20.1	20.1	20.1	21.0	21.9	22.8	23.7	25.6	26.5
66°	20.1	19.2	19.2	20.1	20.1	21.0	21.9	22.8	23.7	24.7	25.6
67.5°	19.2	18.3	18.3	19.2	20.1	20.1	21.0	22.8	23.7	24.7	24.7
70°	16.4	16.4	16.4	18.3	19.2	20.1	21.0	21.9	22.8	23.7	24.7
72.5°	14.6	14.6	15.5	16.4	18.3	19.2	20.1	21.0	22.8	23.7	23.7
75°	12.8	12.8	14.6	15.5	17.4	18.3	20.1	21.0	21.9	22.8	22.8
77.5°	11.0	11.9	13.7	15.5	16.4	18.3	19.2	20.1	21.0	21.9	21.9
80°	10.0	11.9	13.7	14.6	15.5	16.4	17.4	19.2	20.1	21.0	21.9
82.5°	10.0	11.0	12.8	13.7	14.6	16.4	17.4	18.3	19.2	20.1	21.0
85°	8.2	10.0	11.0	12.8	13.7	15.5	16.4	16.4	17.4	18.3	19.2
87.5°	6.4	7.3	7.3	9.1	10.0	11.9	13.7	13.7	14.6	15.5	16.4
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°	132.4	132.4	132.4	132.4
2.5°	126.0	127.0	127.0	127.0
5°	120.6	120.6	120.6	120.6
7.5°	114.2	114.2	114.2	114.2
10°	107.8	107.8	108.7	107.8
12.5°	102.3	101.4	101.4	101.4
15°	95.9	95.9	95.0	95.9
17.5°	89.5	89.5	88.6	88.6
20°	83.1	83.1	83.1	83.1
22.5°	77.6	76.7	76.7	76.7
25°	71.2	71.2	71.2	71.2
27.5°	65.8	65.8	65.8	65.8
30°	60.3	60.3	59.4	59.4
32.5°	54.8	54.8	54.8	54.8
35°	49.3	49.3	48.4	48.4
37.5°	42.9	42.9	42.9	42.9
40°	37.4	37.4	37.4	37.4
42.5°	32.9	32.9	32.0	32.0
45°	28.3	28.3	28.3	28.3
47.5°	26.5	26.5	26.5	26.5
50°	25.6	26.5	26.5	26.5
52.5°	26.5	26.5	26.5	26.5
55°	26.5	27.4	27.4	27.4
57.5°	26.5	27.4	27.4	28.3
60°	27.4	28.3	28.3	28.3
62.5°	27.4	28.3	28.3	28.3
65°	26.5	27.4	27.4	27.4
66°	26.5	26.5	26.5	27.4
67.5°	25.6	26.5	26.5	26.5
70°	24.7	25.6	25.6	26.5
72.5°	24.7	25.6	25.6	25.6
75°	23.7	23.7	24.7	24.7
77.5°	22.8	22.8	23.7	23.7
80°	21.9	22.8	22.8	22.8
82.5°	21.0	21.9	21.9	21.9
85°	19.2	20.1	20.1	20.1
87.5°	16.4	16.4	17.4	17.4
90°	0.0	0.0	0.0	0.0

(END OF REPORT)