

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: P156299

Luminaire Tested: **AVM-E04-LED-E-U-T4-HSS-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156299
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-7030
Description: VISION SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7065.8 lumens
Efficiency: N/A
Efficacy: 72.7 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

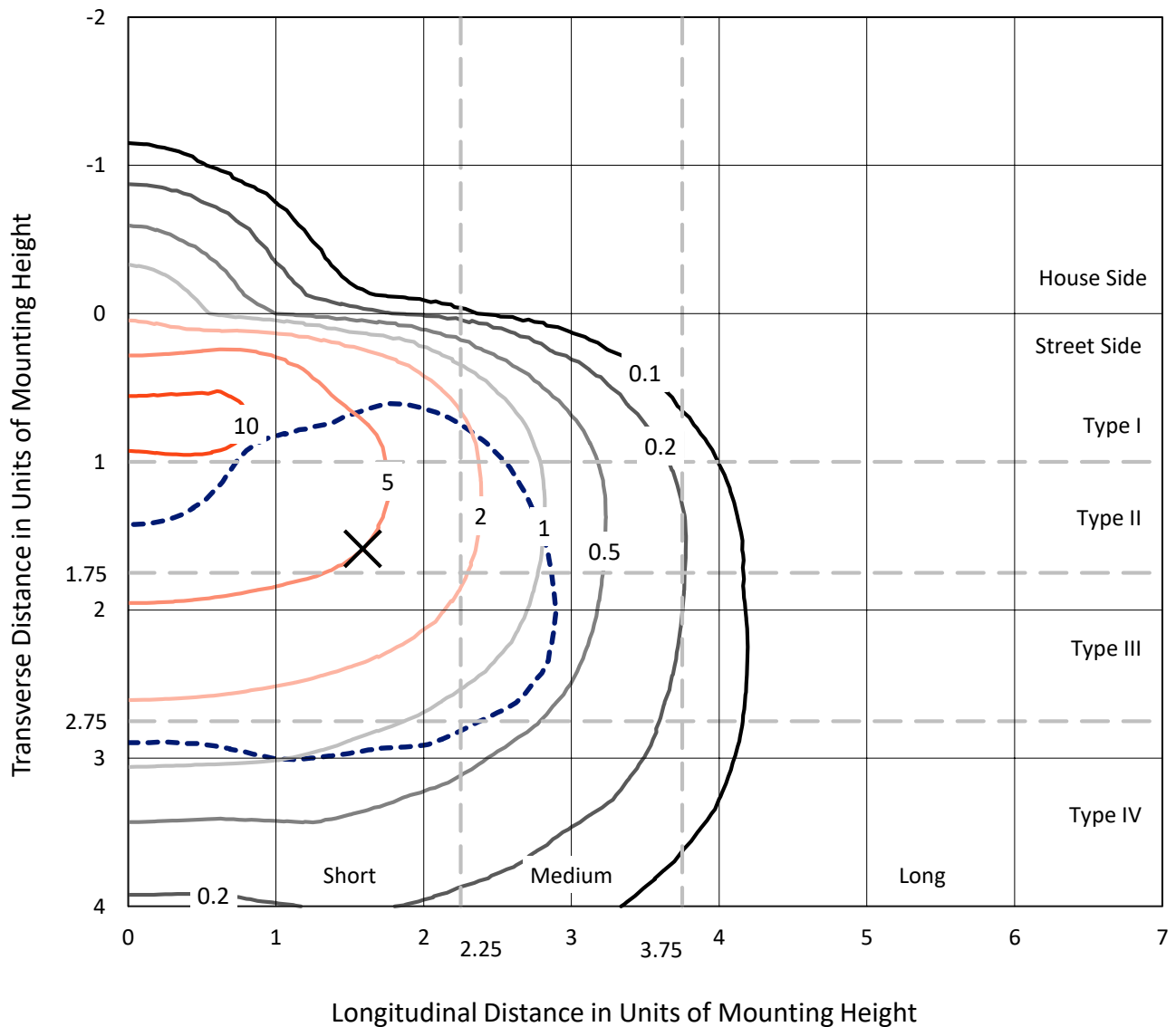
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

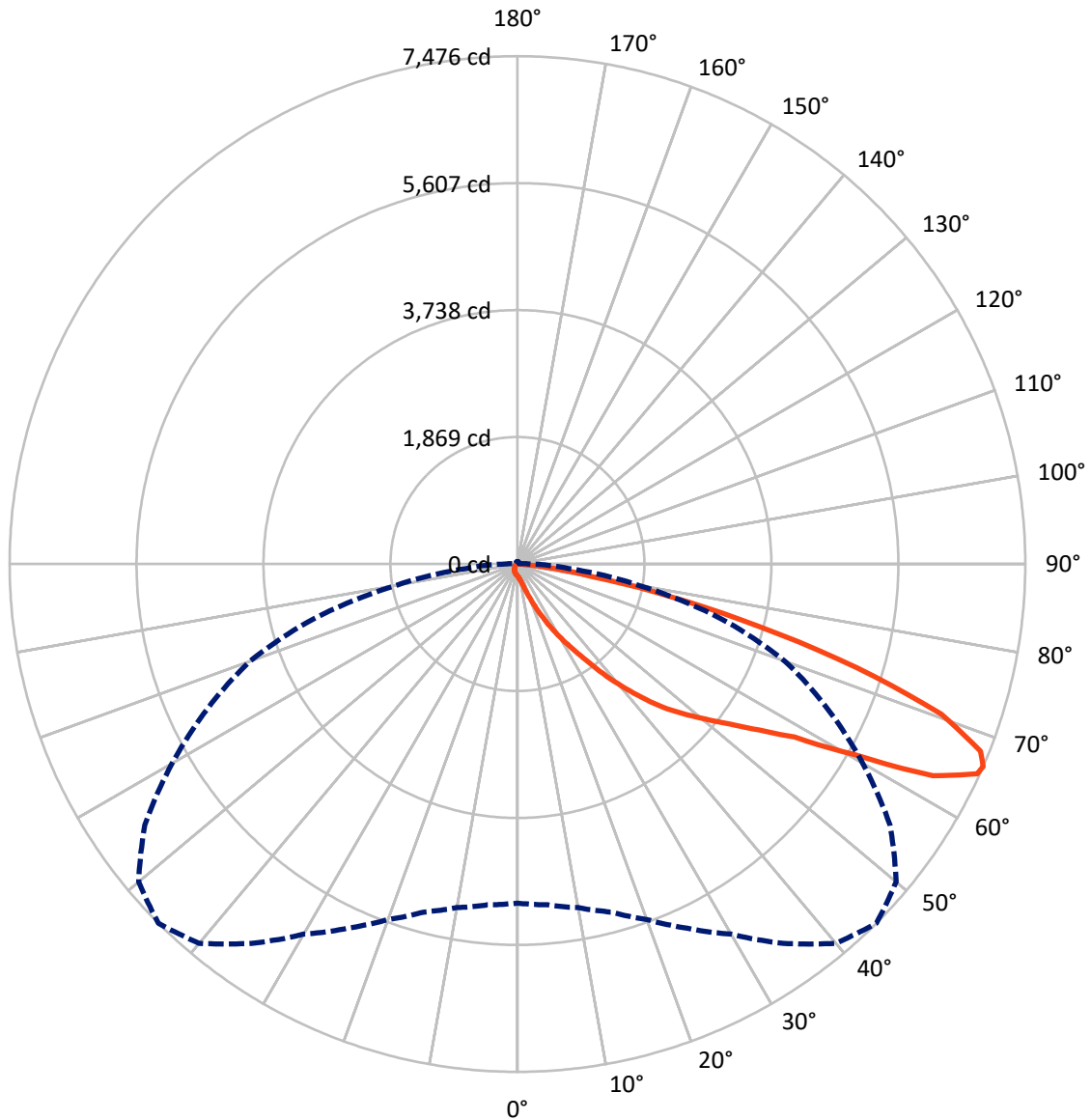
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 11.2 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
House Side	Lumens	160.1	0.0	160.1
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	6905.7	0.0	6905.7
	% Fixture	97.7	0.0	97.7
Total	Lumens	7065.8	0.0	7065.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.8	0.3
10°-20°	72.1	1.0
20°-30°	211.1	3.0
30°-40°	493.1	7.0
40°-50°	926.2	13.1
50°-60°	1534.9	21.7
60°-70°	2436.7	34.5
70°-80°	1260.2	17.8
80°-90°	113.8	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°	7065.8	100.0
0°-180°	7065.8	100.0



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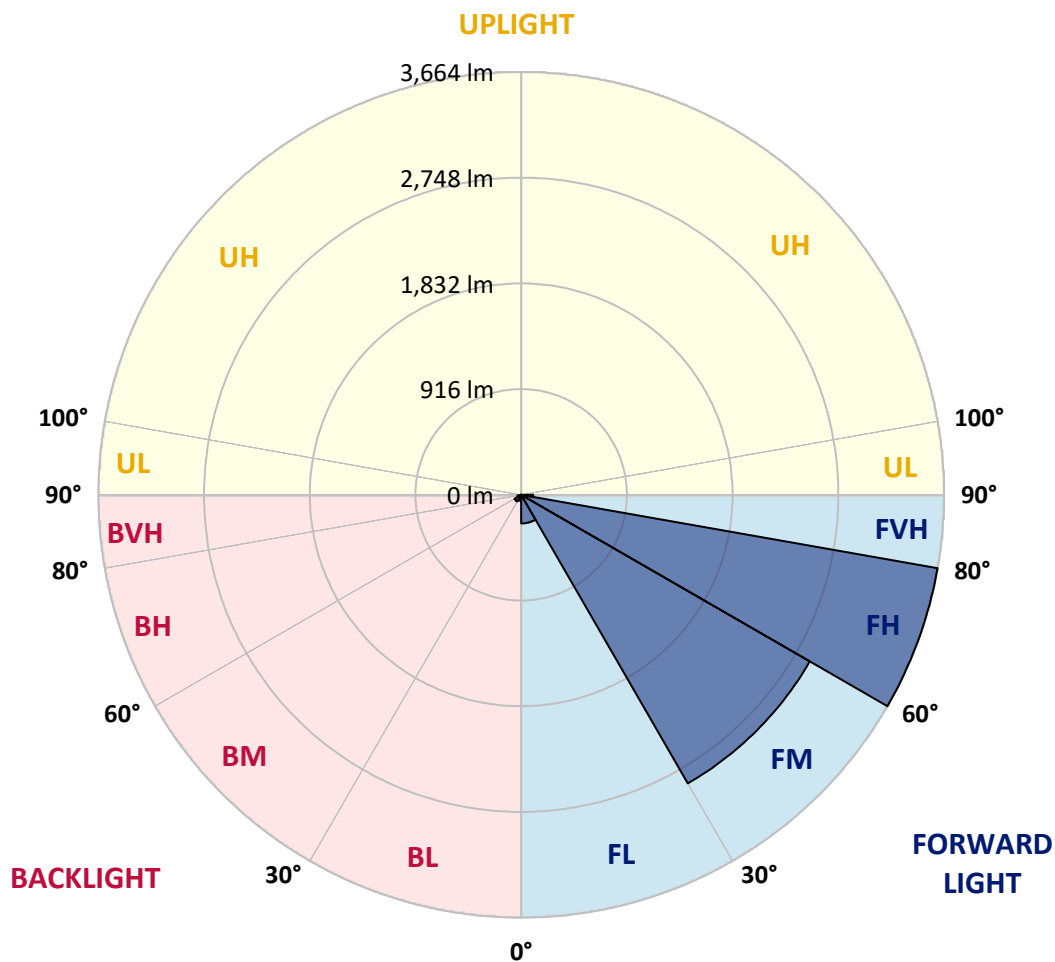
CATALOG NUMBER: AVM-E04-LED-E-U-T4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	248.6	3.5			
FM	(30°-60°)	2887.8	40.9			
FH	(60°-80°)	3664.4	51.9			G2/5000
FVH	(80°-90°)	104.8	1.5			G2/225
BL	(0°-30°)	52.3	0.7	B0/110		
BM	(30°-60°)	66.4	0.9	B0/220		
BH	(60°-80°)	32.4	0.5	B0/110		G0/110
BVH	(80°-90°)	9.0	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°	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6
2.5°	191.2	191.2	191.2	191.2	190.0	188.8	187.5	186.3	185.1	185.1	183.9
5°	216.8	218.0	216.8	215.6	213.1	211.9	208.2	205.8	202.2	200.9	197.3
7.5°	252.1	250.9	252.1	248.4	243.6	242.3	237.5	231.4	226.5	219.2	214.3
10°	303.2	302.0	303.2	295.9	288.6	282.5	274.0	266.7	255.7	247.2	237.5
12.5°	384.8	384.8	382.4	372.6	362.9	349.5	336.1	320.3	300.8	283.7	267.9
15°	510.3	504.2	493.2	487.1	470.1	449.4	434.8	403.1	375.1	348.3	316.6
17.5°	661.3	649.1	640.6	627.2	605.2	578.5	554.1	507.8	479.8	436.0	390.9
20°	834.2	819.6	817.1	796.4	773.3	744.1	708.8	654.0	606.5	551.7	488.3
22.5°	1010.8	1013.2	1003.5	988.9	965.7	931.6	876.8	826.9	768.4	699.0	617.4
25°	1208.1	1206.8	1198.3	1181.3	1164.2	1121.6	1077.8	1030.3	960.8	871.9	774.5
27.5°	1393.2	1391.9	1371.2	1372.5	1339.6	1323.7	1281.1	1230.0	1146.0	1071.7	965.7
30°	1586.8	1574.6	1561.2	1551.5	1528.3	1500.3	1478.4	1417.5	1354.2	1266.5	1180.0
32.5°	1782.9	1769.5	1773.1	1760.9	1742.7	1714.7	1681.8	1631.9	1563.7	1478.4	1398.0
35°	2022.8	2016.7	2006.9	2010.6	2006.9	1986.2	1958.2	1892.5	1818.2	1736.6	1653.8
37.5°	2200.6	2194.5	2200.6	2226.1	2232.2	2245.6	2224.9	2192.0	2138.5	2049.6	1963.1
40°	2365.0	2366.2	2394.2	2425.9	2447.8	2491.6	2498.9	2485.5	2442.9	2361.3	2248.1
42.5°	2512.3	2530.6	2556.2	2608.5	2656.0	2718.1	2764.4	2771.7	2740.1	2686.5	2572.0
45°	2676.7	2692.6	2732.7	2794.9	2860.6	2937.3	3011.6	3050.6	3048.2	3010.4	2887.4
47.5°	2860.6	2881.3	2925.2	2976.3	3064.0	3150.4	3246.7	3316.1	3345.3	3292.9	3173.6
50°	3083.5	3092.0	3129.7	3195.5	3275.9	3375.7	3480.5	3581.6	3638.8	3590.1	3467.1
52.5°	3347.7	3350.2	3385.5	3446.4	3510.9	3620.5	3722.8	3862.9	3937.1	3910.4	3763.0
55°	3710.6	3703.3	3727.7	3780.1	3832.4	3938.4	4040.7	4199.0	4307.4	4309.8	4152.7
57.5°	4206.3	4189.2	4205.1	4246.5	4304.9	4403.6	4532.7	4672.7	4817.6	4807.9	4678.8
60°	4896.8	4890.7	4919.9	4989.3	5089.2	5191.5	5337.6	5526.4	5654.2	5698.1	5562.9
62.5°	5355.9	5372.9	5439.9	5547.1	5739.5	5951.4	6223.0	6511.6	6755.1	6864.7	6678.4
65°	5158.6	5186.6	5291.3	5449.7	5704.2	6022.0	6382.5	6856.2	7276.4	7443.2	7249.6
66°	4991.8	5036.8	5135.5	5303.5	5569.0	5916.1	6292.4	6816.0	7288.5	7476.1	7278.8
67.5°	4703.1	4734.8	4846.8	5033.2	5318.1	5661.6	6068.3	6621.2	7154.6	7353.1	7157.0
70°	4114.9	4127.1	4218.5	4376.8	4597.2	4949.1	5318.1	5850.3	6341.1	6620.0	6405.6
72.5°	3062.8	3079.8	3230.8	3519.4	3805.6	4005.3	4223.3	4649.6	4966.2	5226.8	5185.4
75°	1473.5	1480.8	1581.9	2003.3	2561.0	2799.7	3001.9	3331.9	3452.5	3670.5	3637.6
77.5°	934.1	949.9	1015.6	1117.9	1434.6	1718.3	1877.8	2066.6	2101.9	2285.8	2178.6
80°	257.0	298.4	364.1	535.8	919.4	1096.0	1167.9	1160.6	1167.9	1111.9	1075.3
82.5°	52.4	51.1	62.1	96.2	405.5	638.1	689.3	587.0	583.3	561.4	579.7
85°	13.4	12.2	14.6	30.4	69.4	188.8	237.5	132.7	101.1	96.2	85.2
87.5°	3.7	3.7	3.7	6.1	7.3	9.7	13.4	9.7	7.3	7.3	7.3
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6
2.5°	182.7	182.7	181.5	180.2	180.2	179.0	177.8	176.6	175.4	174.1	172.9
5°	193.6	191.2	187.5	185.1	182.7	179.0	176.6	174.1	171.7	170.5	168.1
7.5°	208.2	202.2	197.3	190.0	185.1	180.2	175.4	171.7	168.1	165.6	163.2
10°	226.5	216.8	207.0	197.3	188.8	181.5	174.1	168.1	164.4	160.7	158.3
12.5°	249.6	235.0	221.6	207.0	193.6	182.7	172.9	165.6	160.7	157.1	153.4
15°	287.4	264.3	241.1	219.2	202.2	185.1	171.7	163.2	157.1	153.4	149.8
17.5°	347.1	305.7	269.1	238.7	210.7	188.8	171.7	160.7	153.4	148.6	144.9
20°	433.5	365.3	306.9	263.0	226.5	194.8	171.7	157.1	149.8	143.7	140.0
22.5°	535.8	450.6	370.2	297.1	244.8	203.4	171.7	153.4	144.9	140.0	135.2
25°	685.6	572.4	462.8	360.5	275.2	216.8	175.4	151.0	141.3	135.2	130.3
27.5°	861.0	724.6	588.2	444.5	321.5	236.3	180.2	148.6	137.6	130.3	125.4
30°	1060.7	909.7	742.9	556.5	382.4	261.8	188.8	147.4	132.7	125.4	119.3
32.5°	1277.5	1117.9	935.3	700.2	472.5	300.8	199.7	146.1	127.9	119.3	112.0
35°	1535.6	1387.1	1164.2	902.4	612.6	367.8	224.1	148.6	123.0	113.3	104.7
37.5°	1818.2	1659.9	1423.6	1116.7	751.4	443.3	242.3	144.9	114.5	104.7	96.2
40°	2103.1	1921.7	1681.8	1342.0	928.0	535.8	265.5	141.3	105.9	96.2	87.7
42.5°	2380.8	2189.6	1929.0	1573.4	1114.3	645.4	294.7	141.3	99.9	87.7	79.2
45°	2671.9	2441.7	2156.7	1795.0	1299.4	770.9	336.1	140.0	92.6	80.4	70.6
47.5°	2947.1	2674.3	2346.7	1989.9	1497.9	908.5	383.6	141.3	86.5	73.1	64.5
50°	3207.7	2894.7	2541.5	2164.0	1687.9	1057.1	442.1	142.5	80.4	67.0	58.5
52.5°	3492.7	3145.6	2751.0	2343.0	1875.4	1206.8	510.3	144.9	74.3	60.9	53.6
55°	3845.8	3461.0	3009.2	2562.3	2073.9	1357.8	576.0	147.4	68.2	56.0	48.7
57.5°	4354.9	3916.4	3428.1	2891.1	2337.0	1529.6	644.2	153.4	63.3	52.4	45.1
60°	5183.0	4660.5	4096.7	3463.4	2730.3	1762.2	742.9	166.8	57.2	47.5	42.6
62.5°	6179.1	5550.7	4833.4	4065.0	3100.5	1919.3	808.6	181.5	52.4	43.8	40.2
65°	6680.9	5889.3	5062.4	4233.1	3148.0	1873.0	781.8	176.6	46.3	39.0	34.1
66°	6695.5	5871.0	5030.7	4196.5	3099.3	1817.0	756.3	174.1	45.1	37.8	31.7
67.5°	6556.6	5713.9	4862.7	4030.9	2955.6	1708.6	710.0	165.6	41.4	34.1	28.0
70°	5871.0	5050.2	4269.6	3501.2	2542.8	1439.4	595.5	146.1	36.5	30.4	25.6
72.5°	4680.0	4011.4	3353.8	2754.7	1976.5	1080.2	470.1	119.3	31.7	26.8	21.9
75°	3268.6	2719.3	2218.8	1791.4	1242.2	646.7	304.5	84.0	26.8	21.9	18.3
77.5°	1824.3	1446.7	1093.6	833.0	495.6	202.2	101.1	42.6	23.1	17.0	14.6
80°	928.0	688.1	523.7	386.0	228.9	104.7	51.1	28.0	18.3	13.4	12.2
82.5°	539.5	395.8	315.4	249.6	157.1	79.2	41.4	20.7	12.2	9.7	11.0
85°	120.6	159.5	135.2	114.5	84.0	49.9	29.2	13.4	8.5	8.5	9.7
87.5°	9.7	13.4	12.2	15.8	17.0	15.8	12.2	7.3	6.1	7.3	7.3
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6	176.6
2.5°	171.7	170.5	170.5	169.3	168.1	168.1	168.1	166.8	168.1	168.1	168.1
5°	166.8	165.6	164.4	163.2	162.0	160.7	160.7	159.5	159.5	159.5	160.7
7.5°	162.0	159.5	158.3	155.9	154.7	153.4	153.4	152.2	152.2	152.2	152.2
10°	155.9	153.4	151.0	149.8	148.6	146.1	146.1	144.9	143.7	143.7	143.7
12.5°	151.0	148.6	146.1	143.7	141.3	140.0	138.8	137.6	136.4	136.4	136.4
15°	146.1	142.5	140.0	137.6	135.2	132.7	131.5	130.3	129.1	127.9	127.9
17.5°	141.3	137.6	134.0	131.5	129.1	126.7	125.4	121.8	121.8	120.6	120.6
20°	135.2	131.5	127.9	125.4	123.0	120.6	118.1	115.7	113.3	112.0	112.0
22.5°	130.3	126.7	123.0	119.3	115.7	112.0	109.6	107.2	105.9	104.7	103.5
25°	125.4	120.6	115.7	112.0	108.4	104.7	102.3	99.9	97.4	96.2	96.2
27.5°	119.3	114.5	109.6	104.7	101.1	97.4	95.0	91.3	90.1	88.9	87.7
30°	113.3	107.2	102.3	97.4	93.8	88.9	86.5	84.0	81.6	81.6	80.4
32.5°	105.9	99.9	95.0	90.1	85.2	81.6	79.2	76.7	75.5	73.1	73.1
35°	98.6	92.6	86.5	81.6	77.9	74.3	71.9	69.4	67.0	65.8	65.8
37.5°	90.1	84.0	79.2	74.3	70.6	67.0	64.5	62.1	60.9	59.7	58.5
40°	80.4	74.3	70.6	67.0	63.3	60.9	57.2	54.8	53.6	52.4	51.1
42.5°	71.9	65.8	63.3	60.9	57.2	54.8	51.1	48.7	46.3	45.1	43.8
45°	64.5	59.7	57.2	54.8	51.1	47.5	45.1	42.6	40.2	39.0	39.0
47.5°	57.2	53.6	51.1	48.7	45.1	42.6	39.0	37.8	35.3	35.3	35.3
50°	52.4	48.7	46.3	43.8	41.4	37.8	35.3	34.1	32.9	32.9	34.1
52.5°	48.7	45.1	42.6	40.2	37.8	35.3	32.9	31.7	31.7	32.9	34.1
55°	45.1	41.4	39.0	36.5	34.1	32.9	30.4	30.4	31.7	32.9	34.1
57.5°	42.6	37.8	35.3	34.1	31.7	30.4	30.4	30.4	31.7	32.9	35.3
60°	39.0	34.1	31.7	31.7	29.2	29.2	29.2	30.4	31.7	34.1	35.3
62.5°	34.1	30.4	29.2	29.2	28.0	28.0	29.2	30.4	32.9	34.1	35.3
65°	29.2	26.8	26.8	26.8	26.8	28.0	29.2	30.4	31.7	34.1	35.3
66°	26.8	25.6	25.6	26.8	26.8	28.0	29.2	30.4	31.7	32.9	34.1
67.5°	25.6	24.4	24.4	25.6	26.8	26.8	28.0	30.4	31.7	32.9	32.9
70°	21.9	21.9	21.9	24.4	25.6	26.8	28.0	29.2	30.4	31.7	32.9
72.5°	19.5	19.5	20.7	21.9	24.4	25.6	26.8	28.0	30.4	31.7	31.7
75°	17.0	17.0	19.5	20.7	23.1	24.4	26.8	28.0	29.2	30.4	30.4
77.5°	14.6	15.8	18.3	20.7	21.9	24.4	25.6	26.8	28.0	29.2	29.2
80°	13.4	15.8	18.3	19.5	20.7	21.9	23.1	25.6	26.8	28.0	29.2
82.5°	13.4	14.6	17.0	18.3	19.5	21.9	23.1	24.4	25.6	26.8	28.0
85°	11.0	13.4	14.6	17.0	18.3	20.7	21.9	21.9	23.1	24.4	25.6
87.5°	8.5	9.7	9.7	12.2	13.4	15.8	18.3	18.3	19.5	20.7	21.9
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°	176.6	176.6	176.6	176.6
2.5°	168.1	169.3	169.3	169.3
5°	160.7	160.7	160.7	160.7
7.5°	152.2	152.2	152.2	152.2
10°	143.7	143.7	144.9	143.7
12.5°	136.4	135.2	135.2	135.2
15°	127.9	127.9	126.7	127.9
17.5°	119.3	119.3	118.1	118.1
20°	110.8	110.8	110.8	110.8
22.5°	103.5	102.3	102.3	102.3
25°	95.0	95.0	95.0	95.0
27.5°	87.7	87.7	87.7	87.7
30°	80.4	80.4	79.2	79.2
32.5°	73.1	73.1	73.1	73.1
35°	65.8	65.8	64.5	64.5
37.5°	57.2	57.2	57.2	57.2
40°	49.9	49.9	49.9	49.9
42.5°	43.8	43.8	42.6	42.6
45°	37.8	37.8	37.8	37.8
47.5°	35.3	35.3	35.3	35.3
50°	34.1	35.3	35.3	35.3
52.5°	35.3	35.3	35.3	35.3
55°	35.3	36.5	36.5	36.5
57.5°	35.3	36.5	36.5	37.8
60°	36.5	37.8	37.8	37.8
62.5°	36.5	37.8	37.8	37.8
65°	35.3	36.5	36.5	36.5
66°	35.3	35.3	35.3	36.5
67.5°	34.1	35.3	35.3	35.3
70°	32.9	34.1	34.1	35.3
72.5°	32.9	34.1	34.1	34.1
75°	31.7	31.7	32.9	32.9
77.5°	30.4	30.4	31.7	31.7
80°	29.2	30.4	30.4	30.4
82.5°	28.0	29.2	29.2	29.2
85°	25.6	26.8	26.8	26.8
87.5°	21.9	21.9	23.1	23.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)