

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: P156308

Luminaire Tested: **AVM-E05-LED-E-U-T4-HSS-8030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P156308
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-E05-LED-E-U-T4-HSS-8030
Description: VISION SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 SHORT W/ HOUSE SIDE SHIELD
Light Source: (105) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 8161.6 lumens
Efficiency: N/A
Efficacy: 64.1 lumens/watt
Luminous Opening: Rectangular (W 0.83' x L: 1' x H: 0')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

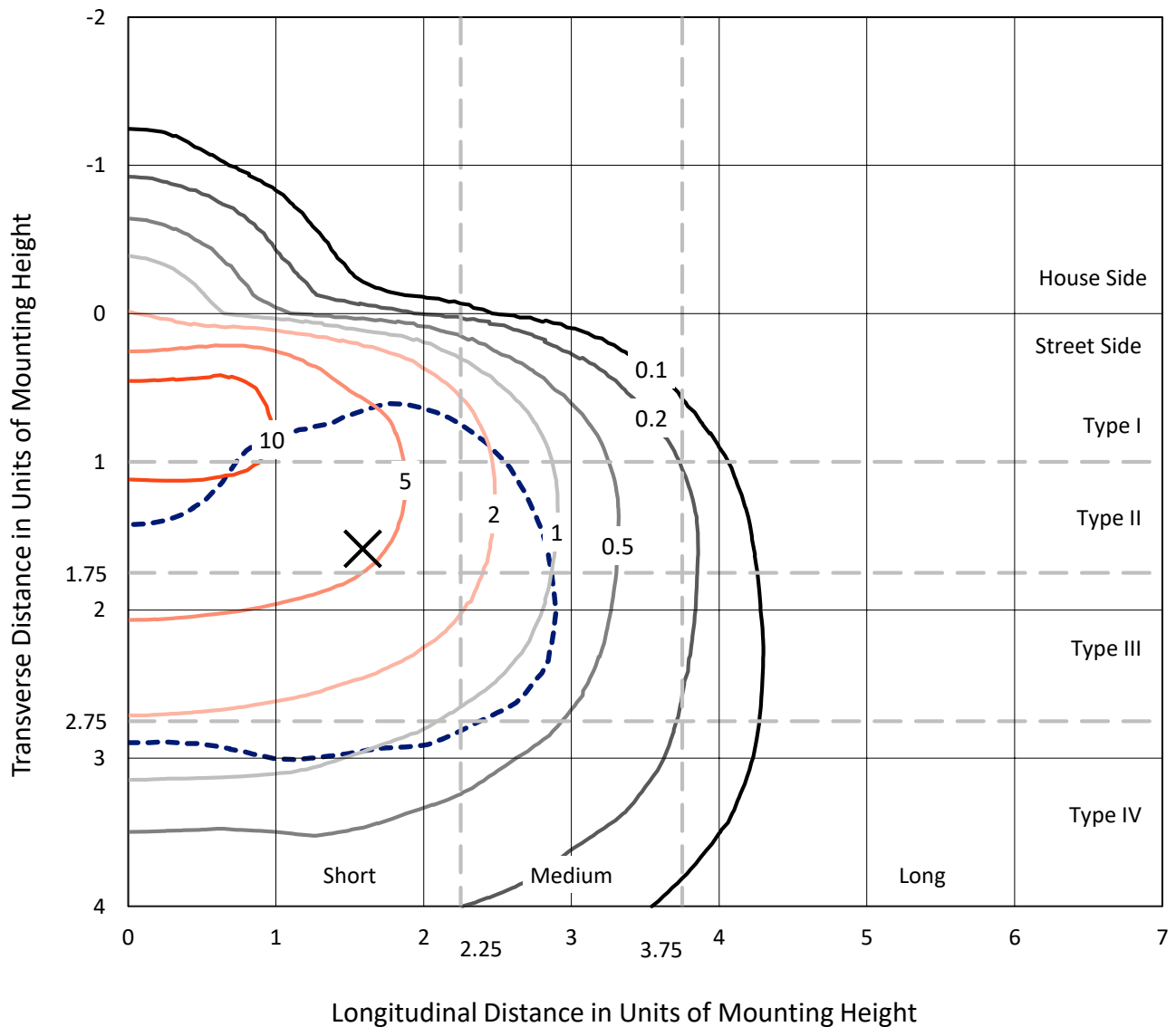
Input Watts (W): 127.3
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

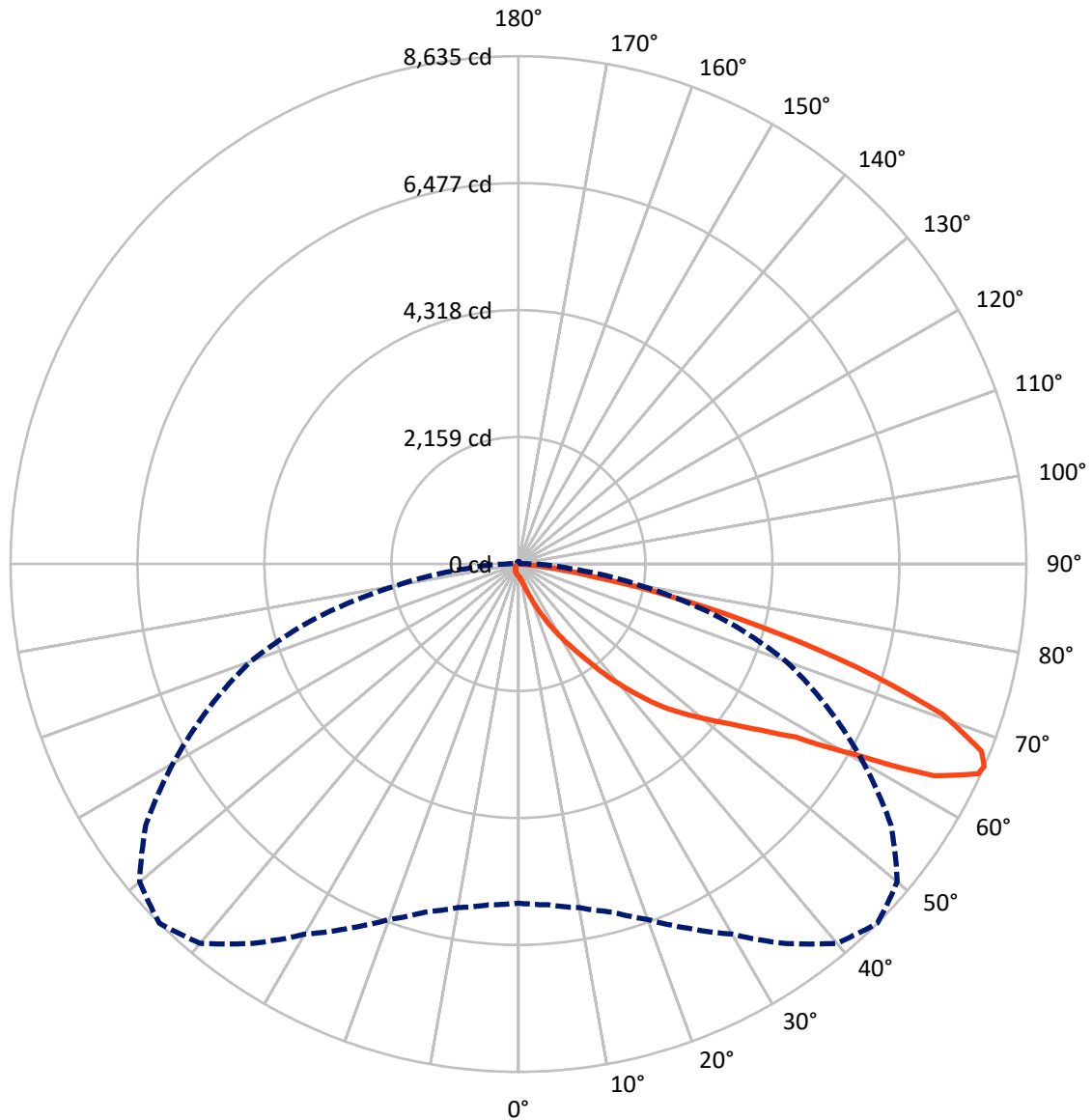
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 13 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	185.0	0.0	185.0
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	7976.6	0.0	7976.6
	% Fixture	97.7	0.0	97.7
Total	Lumens	8161.6	0.0	8161.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.5	0.3
10°-20°	83.2	1.0
20°-30°	243.8	3.0
30°-40°	569.6	7.0
40°-50°	1069.9	13.1
50°-60°	1773.0	21.7
60°-70°	2814.6	34.5
70°-80°	1455.6	17.8
80°-90°	131.5	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°	8161.6	100.0
0°-180°	8161.6	100.0



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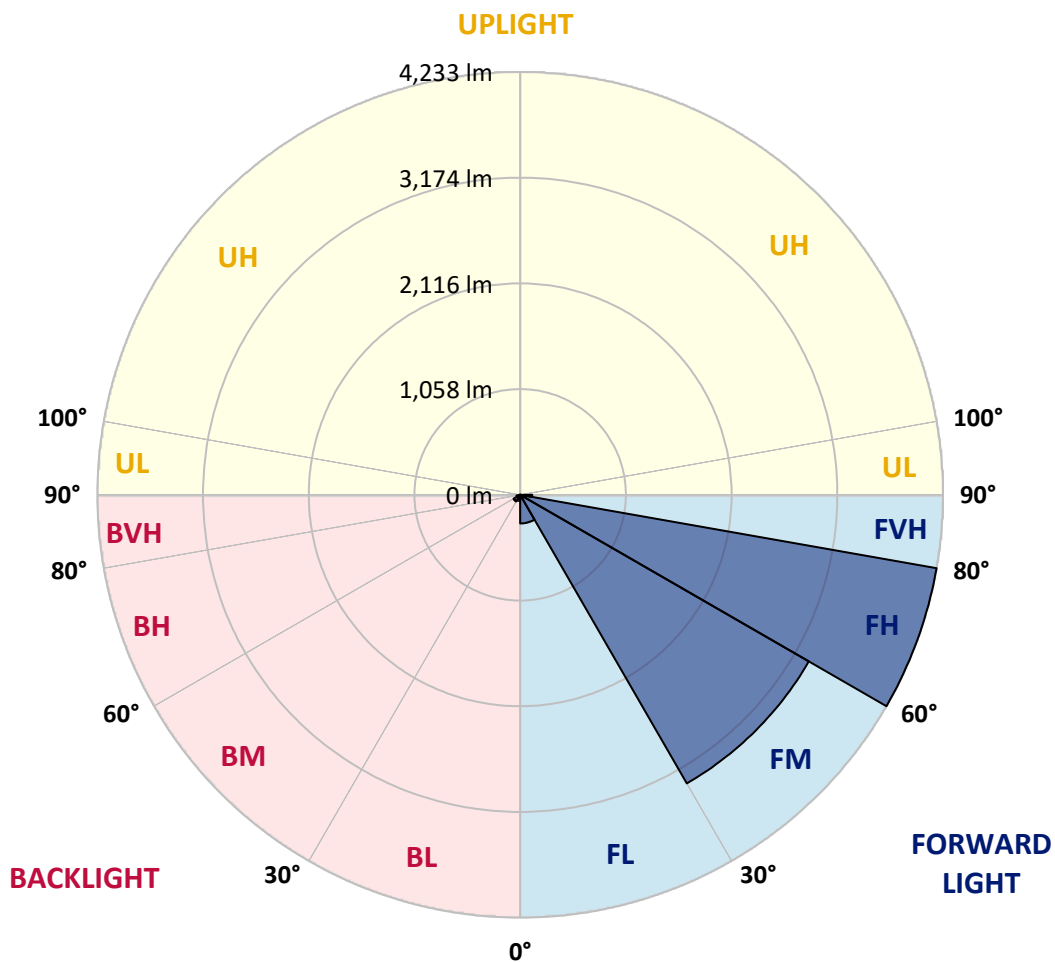
CATALOG NUMBER: AVM-E05-LED-E-U-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	287.2	3.5			
FM	(30°-60°)	3335.6	40.9			
FH	(60°-80°)	4232.7	51.9			G2/5000
FVH	(80°-90°)	121.1	1.5			G2/225
BL	(0°-30°)	60.4	0.7	B0/110		
BM	(30°-60°)	76.7	0.9	B0/220		
BH	(60°-80°)	37.5	0.5	B0/110		G0/110
BVH	(80°-90°)	10.4	0.1			G1/100
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°	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
2.5°	220.8	220.8	220.8	220.8	219.4	218.0	216.6	215.2	213.8	213.8	212.4
5°	250.4	251.8	250.4	249.0	246.2	244.8	240.5	237.7	233.5	232.1	227.9
7.5°	291.2	289.8	291.2	287.0	281.3	279.9	274.3	267.3	261.6	253.2	247.6
10°	350.3	348.8	350.3	341.8	333.4	326.3	316.5	308.1	295.4	285.6	274.3
12.5°	444.5	444.5	441.7	430.4	419.2	403.7	388.2	369.9	347.4	327.7	309.5
15°	589.4	582.4	569.7	562.7	543.0	519.1	502.2	465.6	433.2	402.3	365.7
17.5°	763.8	749.7	739.9	724.4	699.1	668.2	640.0	586.6	554.2	503.6	451.5
20°	963.6	946.7	943.9	920.0	893.2	859.5	818.7	755.4	700.5	637.2	564.1
22.5°	1167.5	1170.3	1159.1	1142.2	1115.5	1076.1	1012.8	955.1	887.6	807.4	713.2
25°	1395.4	1394.0	1384.1	1364.5	1344.8	1295.5	1244.9	1190.0	1109.8	1007.2	894.6
27.5°	1609.2	1607.8	1583.9	1585.3	1547.3	1529.0	1479.8	1420.7	1323.7	1237.9	1115.5
30°	1832.9	1818.8	1803.3	1792.1	1765.3	1733.0	1707.7	1637.3	1564.2	1462.9	1363.0
32.5°	2059.3	2043.9	2048.1	2034.0	2012.9	1980.6	1942.6	1884.9	1806.1	1707.7	1614.8
35°	2336.4	2329.4	2318.2	2322.4	2318.2	2294.2	2261.9	2185.9	2100.1	2005.9	1910.2
37.5°	2541.8	2534.8	2541.8	2571.4	2578.4	2593.9	2570.0	2532.0	2470.1	2367.4	2267.5
40°	2731.7	2733.1	2765.5	2802.0	2827.4	2878.0	2886.4	2871.0	2821.7	2727.5	2596.7
42.5°	2901.9	2923.0	2952.6	3013.0	3067.9	3139.6	3193.1	3201.5	3165.0	3103.1	2970.8
45°	3091.8	3110.1	3156.5	3228.3	3304.2	3392.8	3478.6	3523.7	3520.8	3477.2	3335.2
47.5°	3304.2	3328.1	3378.8	3437.9	3539.1	3639.0	3750.1	3830.3	3864.1	3803.6	3665.7
50°	3561.6	3571.5	3615.1	3691.1	3783.9	3899.2	4020.2	4137.0	4203.1	4146.8	4004.7
52.5°	3866.9	3869.7	3910.5	3980.8	4055.4	4182.0	4300.1	4461.9	4547.7	4516.8	4346.6
55°	4286.1	4277.6	4305.8	4366.2	4426.7	4549.1	4667.3	4850.1	4975.3	4978.1	4796.7
57.5°	4858.6	4838.9	4857.2	4905.0	4972.5	5086.5	5235.6	5397.3	5564.7	5553.5	5404.4
60°	5656.1	5649.1	5682.9	5763.1	5878.4	5996.6	6165.4	6383.4	6531.1	6581.7	6425.6
62.5°	6186.5	6206.1	6283.5	6407.3	6629.5	6874.3	7188.0	7521.4	7802.7	7929.3	7714.1
65°	5958.6	5990.9	6111.9	6294.8	6588.8	6955.9	7372.3	7919.4	8404.7	8597.5	8373.8
66°	5765.9	5817.9	5931.8	6126.0	6432.6	6833.5	7268.2	7873.0	8418.8	8635.4	8407.6
67.5°	5432.5	5469.1	5598.5	5813.7	6142.8	6539.5	7009.3	7648.0	8264.1	8493.4	8266.9
70°	4753.1	4767.1	4872.6	5055.5	5310.1	5716.6	6142.8	6757.6	7324.4	7646.6	7399.0
72.5°	3537.7	3557.4	3731.8	4065.2	4395.8	4626.5	4878.3	5370.6	5736.3	6037.3	5989.5
75°	1702.0	1710.5	1827.2	2313.9	2958.2	3233.9	3467.4	3848.6	3987.9	4239.6	4201.7
77.5°	1078.9	1097.2	1173.1	1291.3	1657.0	1984.8	2169.1	2387.1	2427.9	2640.3	2516.5
80°	296.8	344.6	420.6	618.9	1062.0	1266.0	1349.0	1340.5	1349.0	1284.3	1242.1
82.5°	60.5	59.1	71.7	111.1	468.4	737.1	796.2	678.0	673.8	648.5	669.6
85°	15.5	14.1	16.9	35.2	80.2	218.0	274.3	153.3	116.8	111.1	98.5
87.5°	4.2	4.2	4.2	7.0	8.4	11.3	15.5	11.3	8.4	8.4	8.4
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
2.5°	211.0	211.0	209.6	208.2	208.2	206.8	205.4	204.0	202.6	201.2	199.7
5°	223.7	220.8	216.6	213.8	211.0	206.8	204.0	201.2	198.3	196.9	194.1
7.5°	240.5	233.5	227.9	219.4	213.8	208.2	202.6	198.3	194.1	191.3	188.5
10°	261.6	250.4	239.1	227.9	218.0	209.6	201.2	194.1	189.9	185.7	182.9
12.5°	288.4	271.5	256.0	239.1	223.7	211.0	199.7	191.3	185.7	181.5	177.2
15°	332.0	305.2	278.5	253.2	233.5	213.8	198.3	188.5	181.5	177.2	173.0
17.5°	400.9	353.1	310.9	275.7	243.4	218.0	198.3	185.7	177.2	171.6	167.4
20°	500.8	422.0	354.5	303.8	261.6	225.1	198.3	181.5	173.0	166.0	161.8
22.5°	618.9	520.5	427.6	343.2	282.7	234.9	198.3	177.2	167.4	161.8	156.1
25°	791.9	661.1	534.5	416.4	317.9	250.4	202.6	174.4	163.2	156.1	150.5
27.5°	994.5	837.0	679.4	513.4	371.4	272.9	208.2	171.6	159.0	150.5	144.9
30°	1225.2	1050.8	858.1	642.8	441.7	302.4	218.0	170.2	153.3	144.9	137.9
32.5°	1475.6	1291.3	1080.3	808.8	545.8	347.4	230.7	168.8	147.7	137.9	129.4
35°	1773.8	1602.2	1344.8	1042.3	707.5	424.8	258.8	171.6	142.1	130.8	121.0
37.5°	2100.1	1917.3	1644.4	1289.9	867.9	512.0	279.9	167.4	132.2	121.0	111.1
40°	2429.3	2219.7	1942.6	1550.1	1071.9	618.9	306.7	163.2	122.4	111.1	101.3
42.5°	2750.0	2529.2	2228.1	1817.4	1287.1	745.5	340.4	163.2	115.3	101.3	91.4
45°	3086.2	2820.3	2491.2	2073.4	1500.9	890.4	388.2	161.8	106.9	92.8	81.6
47.5°	3404.1	3089.0	2710.6	2298.5	1730.2	1049.4	443.1	163.2	99.9	84.4	74.6
50°	3705.1	3343.6	2935.7	2499.6	1949.6	1221.0	510.6	164.6	92.8	77.4	67.5
52.5°	4034.3	3633.4	3177.6	2706.4	2166.2	1394.0	589.4	167.4	85.8	70.3	61.9
55°	4442.2	3997.7	3475.8	2959.6	2395.5	1568.4	665.3	170.2	78.8	64.7	56.3
57.5°	5030.2	4523.8	3959.7	3339.4	2699.4	1766.8	744.1	177.2	73.1	60.5	52.0
60°	5986.7	5383.3	4732.0	4000.5	3153.7	2035.4	858.1	192.7	66.1	54.9	49.2
62.5°	7137.3	6411.5	5583.0	4695.4	3581.3	2216.9	934.0	209.6	60.5	50.6	46.4
65°	7716.9	6802.6	5847.5	4889.5	3636.2	2163.4	903.1	204.0	53.5	45.0	39.4
66°	7733.8	6781.5	5810.9	4847.3	3579.9	2098.7	873.5	201.2	52.0	43.6	36.6
67.5°	7573.4	6600.0	5616.8	4656.0	3413.9	1973.5	820.1	191.3	47.8	39.4	32.4
70°	6781.5	5833.4	4931.7	4044.1	2937.1	1662.7	687.9	168.8	42.2	35.2	29.5
72.5°	5405.8	4633.5	3873.9	3181.8	2283.0	1247.7	543.0	137.9	36.6	30.9	25.3
75°	3775.5	3141.1	2562.9	2069.2	1434.8	746.9	351.7	97.1	30.9	25.3	21.1
77.5°	2107.2	1671.1	1263.2	962.1	572.5	233.5	116.8	49.2	26.7	19.7	16.9
80°	1071.9	794.8	604.9	445.9	264.5	121.0	59.1	32.4	21.1	15.5	14.1
82.5°	623.1	457.2	364.3	288.4	181.5	91.4	47.8	23.9	14.1	11.3	12.7
85°	139.3	184.3	156.1	132.2	97.1	57.7	33.8	15.5	9.8	9.8	11.3
87.5°	11.3	15.5	14.1	18.3	19.7	18.3	14.1	8.4	7.0	8.4	8.4
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0	204.0
2.5°	198.3	196.9	196.9	195.5	194.1	194.1	194.1	192.7	194.1	194.1	194.1
5°	192.7	191.3	189.9	188.5	187.1	185.7	185.7	184.3	184.3	184.3	185.7
7.5°	187.1	184.3	182.9	180.1	178.6	177.2	177.2	175.8	175.8	175.8	175.8
10°	180.1	177.2	174.4	173.0	171.6	168.8	168.8	167.4	166.0	166.0	166.0
12.5°	174.4	171.6	168.8	166.0	163.2	161.8	160.4	159.0	157.5	157.5	157.5
15°	168.8	164.6	161.8	159.0	156.1	153.3	151.9	150.5	149.1	147.7	147.7
17.5°	163.2	159.0	154.7	151.9	149.1	146.3	144.9	140.7	140.7	139.3	139.3
20°	156.1	151.9	147.7	144.9	142.1	139.3	136.4	133.6	130.8	129.4	129.4
22.5°	150.5	146.3	142.1	137.9	133.6	129.4	126.6	123.8	122.4	121.0	119.6
25°	144.9	139.3	133.6	129.4	125.2	121.0	118.2	115.3	112.5	111.1	111.1
27.5°	137.9	132.2	126.6	121.0	116.8	112.5	109.7	105.5	104.1	102.7	101.3
30°	130.8	123.8	118.2	112.5	108.3	102.7	99.9	97.1	94.2	94.2	92.8
32.5°	122.4	115.3	109.7	104.1	98.5	94.2	91.4	88.6	87.2	84.4	84.4
35°	113.9	106.9	99.9	94.2	90.0	85.8	83.0	80.2	77.4	76.0	76.0
37.5°	104.1	97.1	91.4	85.8	81.6	77.4	74.6	71.7	70.3	68.9	67.5
40°	92.8	85.8	81.6	77.4	73.1	70.3	66.1	63.3	61.9	60.5	59.1
42.5°	83.0	76.0	73.1	70.3	66.1	63.3	59.1	56.3	53.5	52.0	50.6
45°	74.6	68.9	66.1	63.3	59.1	54.9	52.0	49.2	46.4	45.0	45.0
47.5°	66.1	61.9	59.1	56.3	52.0	49.2	45.0	43.6	40.8	40.8	40.8
50°	60.5	56.3	53.5	50.6	47.8	43.6	40.8	39.4	38.0	38.0	39.4
52.5°	56.3	52.0	49.2	46.4	43.6	40.8	38.0	36.6	36.6	38.0	39.4
55°	52.0	47.8	45.0	42.2	39.4	38.0	35.2	35.2	36.6	38.0	39.4
57.5°	49.2	43.6	40.8	39.4	36.6	35.2	35.2	35.2	36.6	38.0	40.8
60°	45.0	39.4	36.6	36.6	33.8	33.8	33.8	35.2	36.6	39.4	40.8
62.5°	39.4	35.2	33.8	33.8	32.4	32.4	33.8	35.2	38.0	39.4	40.8
65°	33.8	30.9	30.9	30.9	30.9	32.4	33.8	35.2	36.6	39.4	40.8
66°	30.9	29.5	29.5	30.9	30.9	32.4	33.8	35.2	36.6	38.0	39.4
67.5°	29.5	28.1	28.1	29.5	30.9	30.9	32.4	35.2	36.6	38.0	38.0
70°	25.3	25.3	25.3	28.1	29.5	30.9	32.4	33.8	35.2	36.6	38.0
72.5°	22.5	22.5	23.9	25.3	28.1	29.5	30.9	32.4	35.2	36.6	36.6
75°	19.7	19.7	22.5	23.9	26.7	28.1	30.9	32.4	33.8	35.2	35.2
77.5°	16.9	18.3	21.1	23.9	25.3	28.1	29.5	30.9	32.4	33.8	33.8
80°	15.5	18.3	21.1	22.5	23.9	25.3	26.7	29.5	30.9	32.4	33.8
82.5°	15.5	16.9	19.7	21.1	22.5	25.3	26.7	28.1	29.5	30.9	32.4
85°	12.7	15.5	16.9	19.7	21.1	23.9	25.3	25.3	26.7	28.1	29.5
87.5°	9.8	11.3	11.3	14.1	15.5	18.3	21.1	21.1	22.5	23.9	25.3
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°	204.0	204.0	204.0	204.0
2.5°	194.1	195.5	195.5	195.5
5°	185.7	185.7	185.7	185.7
7.5°	175.8	175.8	175.8	175.8
10°	166.0	166.0	167.4	166.0
12.5°	157.5	156.1	156.1	156.1
15°	147.7	147.7	146.3	147.7
17.5°	137.9	137.9	136.4	136.4
20°	128.0	128.0	128.0	128.0
22.5°	119.6	118.2	118.2	118.2
25°	109.7	109.7	109.7	109.7
27.5°	101.3	101.3	101.3	101.3
30°	92.8	92.8	91.4	91.4
32.5°	84.4	84.4	84.4	84.4
35°	76.0	76.0	74.6	74.6
37.5°	66.1	66.1	66.1	66.1
40°	57.7	57.7	57.7	57.7
42.5°	50.6	50.6	49.2	49.2
45°	43.6	43.6	43.6	43.6
47.5°	40.8	40.8	40.8	40.8
50°	39.4	40.8	40.8	40.8
52.5°	40.8	40.8	40.8	40.8
55°	40.8	42.2	42.2	42.2
57.5°	40.8	42.2	42.2	43.6
60°	42.2	43.6	43.6	43.6
62.5°	42.2	43.6	43.6	43.6
65°	40.8	42.2	42.2	42.2
66°	40.8	40.8	40.8	42.2
67.5°	39.4	40.8	40.8	40.8
70°	38.0	39.4	39.4	40.8
72.5°	38.0	39.4	39.4	39.4
75°	36.6	36.6	38.0	38.0
77.5°	35.2	35.2	36.6	36.6
80°	33.8	35.2	35.2	35.2
82.5°	32.4	33.8	33.8	33.8
85°	29.5	30.9	30.9	30.9
87.5°	25.3	25.3	26.7	26.7
90°	0.0	0.0	0.0	0.0

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