

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: P314549

Luminaire Tested: **MPN-A5-D-U-SYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314549
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-13)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPN-A5-D-U-SYM-7030
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 3000K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4729 lumens
Efficiency: N/A
Efficacy: 93.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U4 - G4

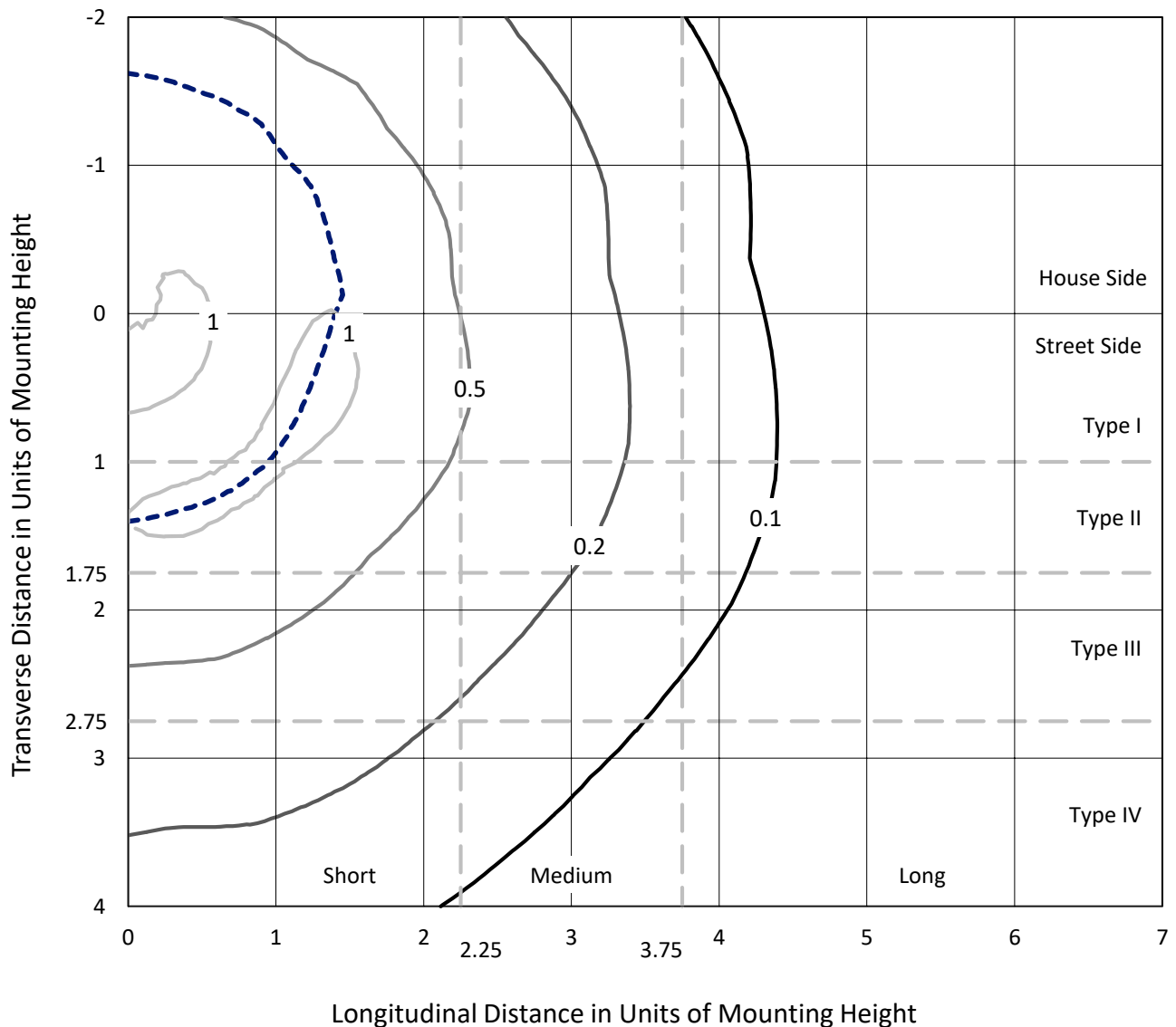
Input Watts (W): 50.6
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT



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Iso-Footcandle Lines of Horizontal Illumination

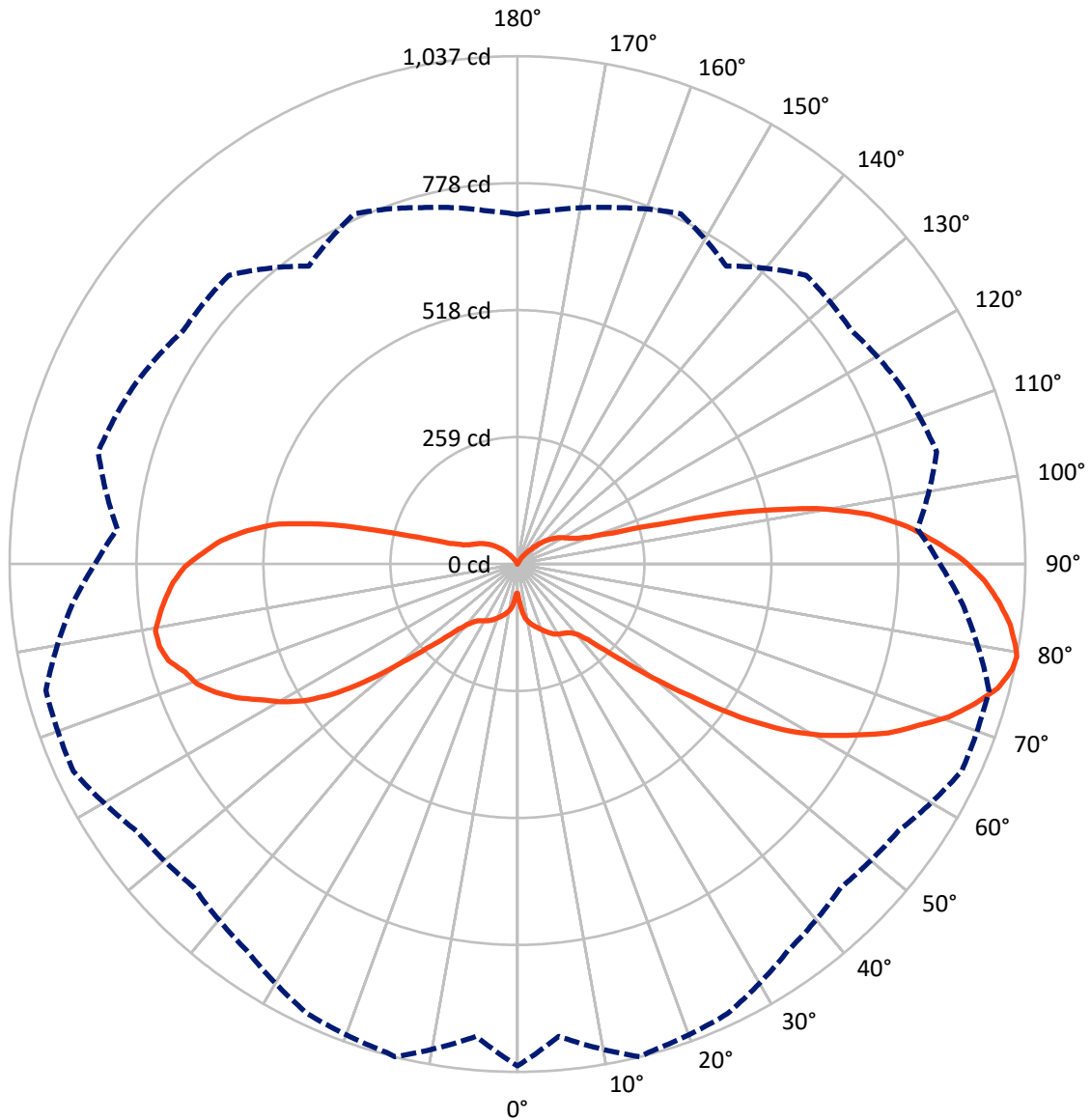
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 14-Deg Lateral - - - Horizontal Cone Through 79-Deg Vertical



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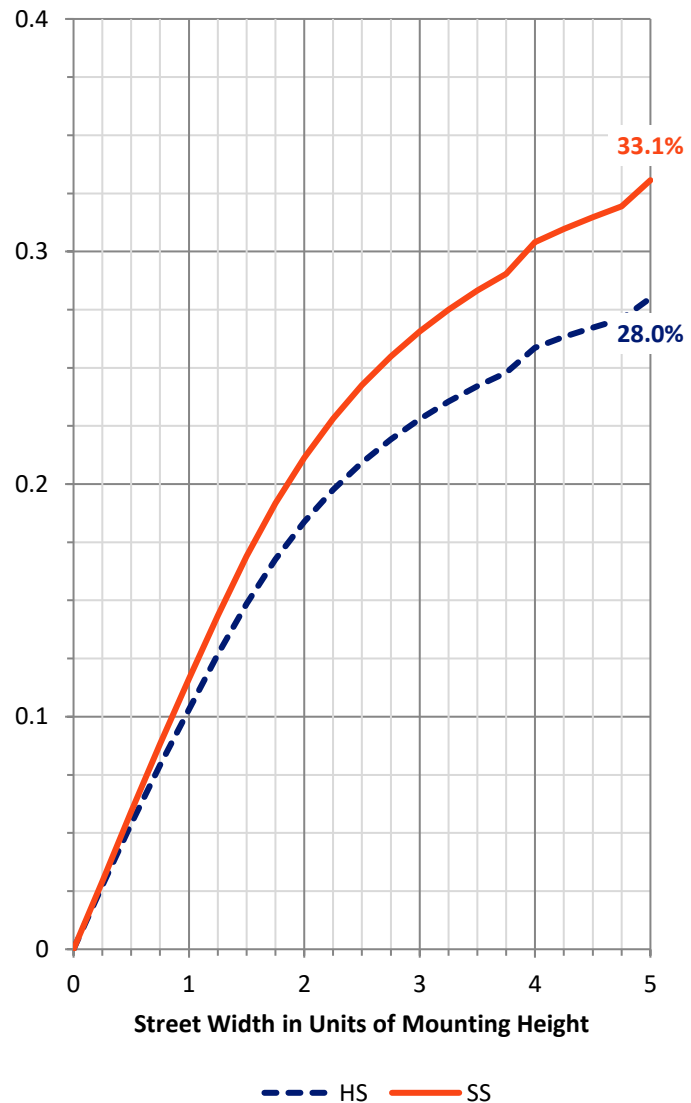
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1558.5	594.0	2152.5
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	1864.4	712.1	2576.5
	% Fixture	39.4	15.1	54.5
Total	Lumens	3422.9	1306.1	4729.0
	% Fixture	72.4	27.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	8.8	0.2
10°-20°	33.9	0.7
20°-30°	66.1	1.4
30°-40°	100.7	2.1
40°-50°	189.9	4.0
50°-60°	458.2	9.7
60°-70°	729.5	15.4
70°-80°	914.9	19.3
80°-90°	921.0	19.5
90°-100°	755.1	16.0
100°-110°	318.9	6.7
110°-120°	110.4	2.3
120°-130°	73.6	1.6
130°-140°	36.7	0.8
140°-150°	10.8	0.2
150°-160°	0.6	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	3422.9	72.4
0°-180°	4729.0	100.0



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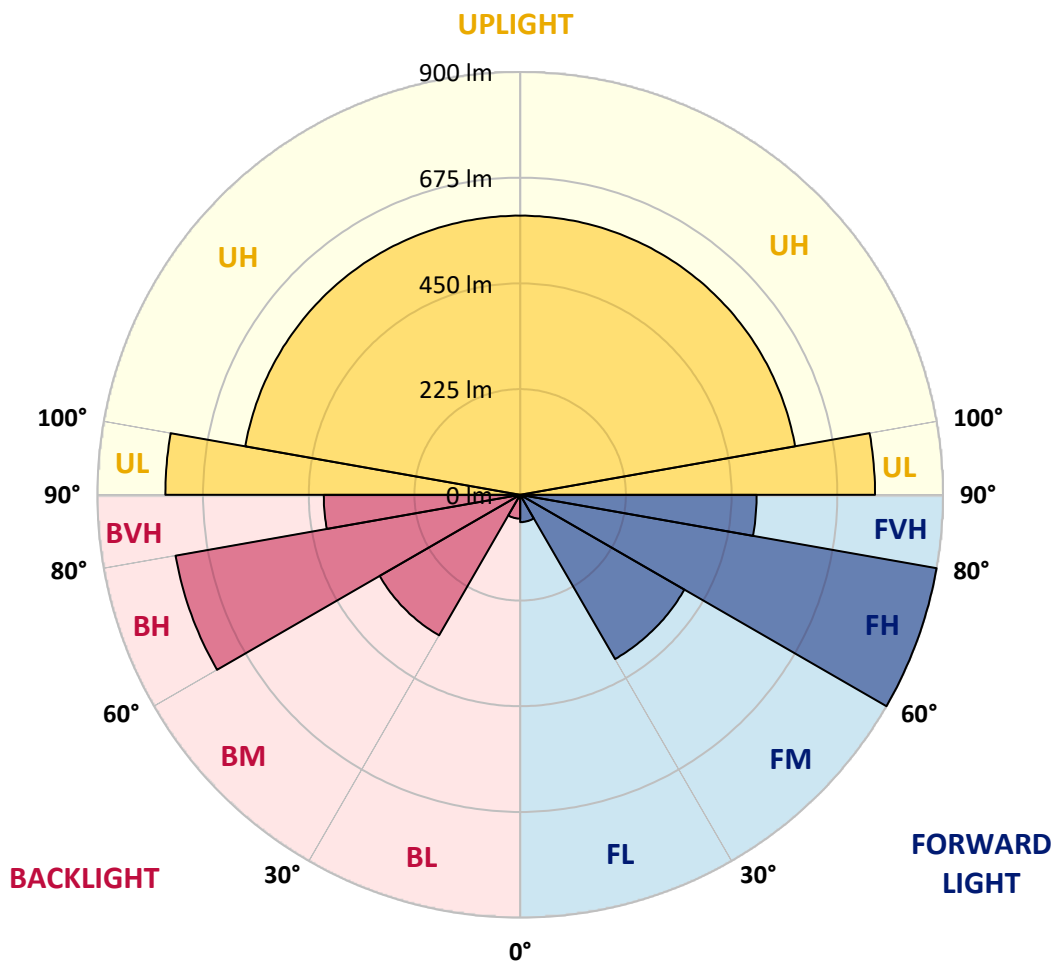
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	58.1	1.2			
FM (30°-60°)	403.5	8.5			
FH (60°-80°)	899.7	19.0			G1/1800
FVH (80°-90°)	503.1	10.6			G4/750
BL (0°-30°)	50.6	1.1	B0/110		
BM (30°-60°)	345.3	7.3	B1/1000		
BH (60°-80°)	744.7	15.7	B2/1000		G1/1800
BVH (80°-90°)	417.9	8.8			G3/500
UL (90°-100°)	755.1	16.0		U4/1000	
UH (100°-180°)	594.0	12.6		U4/1000	

BUG Rating: B2-U4-G4

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
2.5°	79.6	77.3	77.3	78.1	78.1	75.0	72.7	72.7	71.2	69.7	66.7
5°	97.0	95.5	95.5	95.5	95.5	96.2	94.0	92.5	89.4	87.9	85.6
7.5°	110.6	109.9	109.9	110.6	109.9	109.1	106.8	106.8	103.8	102.3	100.0
10°	120.5	119.7	119.7	119.7	118.2	116.7	115.2	114.4	112.2	109.9	107.6
12.5°	125.8	125.0	125.8	125.8	124.3	121.2	120.5	119.7	118.2	115.9	112.9
15°	131.9	131.1	131.9	131.9	129.6	128.1	126.6	125.8	124.3	122.8	119.7
17.5°	137.9	137.2	137.2	137.2	136.4	133.4	131.9	132.6	130.3	128.1	125.8
20°	144.7	144.0	143.2	143.2	142.5	139.4	138.7	137.9	136.4	134.1	131.9
22.5°	152.3	150.8	150.0	150.0	149.3	146.3	146.3	145.5	143.2	141.0	139.4
25°	159.9	159.1	156.1	156.1	155.3	153.1	153.8	152.3	150.0	147.0	146.3
27.5°	166.0	164.4	162.2	161.4	160.7	158.4	159.1	157.6	154.6	152.3	151.6
30°	169.7	169.0	166.0	166.0	163.7	162.9	162.9	160.7	157.6	155.3	156.1
32.5°	172.0	172.0	169.0	168.2	166.7	166.0	165.2	163.7	159.9	157.6	158.4
35°	175.8	175.1	172.8	172.0	169.7	169.7	168.2	166.0	161.4	160.7	161.4
37.5°	180.4	179.6	178.1	177.3	173.5	175.1	172.8	171.3	166.7	166.0	165.2
40°	191.0	191.0	188.7	188.7	184.1	187.9	185.7	186.4	181.9	181.1	178.1
42.5°	210.7	210.7	211.4	212.2	208.4	212.2	211.4	215.2	211.4	208.4	203.8
45°	249.3	246.3	250.8	249.3	247.0	250.8	249.3	254.6	253.1	249.3	244.8
47.5°	297.1	303.1	303.9	305.4	300.8	305.4	303.9	309.9	313.0	308.4	296.3
50°	363.0	369.0	375.9	375.9	372.1	373.6	372.8	381.9	385.7	386.5	369.8
52.5°	440.3	446.3	455.4	460.7	454.7	459.2	460.7	478.2	490.3	488.8	460.0
55°	531.2	540.3	551.7	554.7	544.1	547.1	548.6	570.6	594.9	591.8	554.7
57.5°	619.9	628.2	638.1	643.4	630.5	626.7	614.6	640.3	671.4	669.9	615.3
60°	692.6	698.7	709.3	714.6	701.7	694.1	668.4	695.7	731.3	733.5	669.9
62.5°	757.0	760.1	769.2	774.5	760.1	751.7	719.9	748.7	783.6	786.6	717.6
65°	813.9	809.3	832.1	833.6	813.1	800.2	769.9	801.0	834.3	836.6	758.6
67.5°	864.6	855.6	880.6	885.9	863.1	843.4	814.6	838.1	874.5	873.0	804.0
70°	910.1	898.0	934.4	937.4	907.1	880.6	863.9	877.5	918.5	919.2	843.4
72.5°	956.3	933.6	976.0	976.8	951.0	912.4	891.9	909.4	949.5	945.7	874.5
75°	992.7	952.6	1013.2	1010.1	986.7	939.7	920.0	933.6	981.3	979.8	895.7
77.5°	1027.6	970.0	1032.9	1030.6	1009.4	958.6	934.4	953.3	998.8	998.0	914.7
79°	1024.5	967.7	1036.7	1032.1	1013.2	963.2	933.6	949.5	1000.3	996.5	910.9
80°	1021.5	960.9	1031.4	1027.6	1007.1	957.9	923.0	935.9	986.7	984.4	898.7
82.5°	1000.3	944.2	1013.2	1007.9	990.4	945.7	912.4	924.5	984.4	976.8	887.4
85°	971.5	918.5	985.9	981.3	964.7	921.5	882.8	892.7	945.7	944.2	860.9
87.5°	934.4	885.9	953.3	948.8	933.6	894.2	855.6	866.9	920.7	920.0	832.1
90°	898.7	851.8	910.1	908.6	893.4	857.1	823.7	841.2	896.5	893.4	806.3
92.5°	844.9	802.5	855.6	856.3	841.9	811.6	780.5	794.9	838.1	837.4	757.0
95°	790.4	751.0	799.5	799.5	785.8	759.3	727.5	738.1	780.5	787.4	710.1
97.5°	718.4	683.5	726.7	728.2	717.6	694.9	667.6	681.3	722.2	729.0	658.5
100°	607.0	583.5	621.4	625.2	616.8	603.2	584.3	604.0	639.6	647.2	585.8
102.5°	444.1	437.2	470.6	469.1	466.0	462.3	457.7	468.3	491.8	503.2	440.3
105°	301.6	290.2	307.7	306.9	300.8	291.0	279.6	278.9	284.9	280.4	249.3
107.5°	203.1	198.5	205.4	206.1	201.6	193.2	182.6	181.9	187.2	184.1	167.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	154.6	152.3	156.1	156.9	154.6	147.8	142.5	142.5	147.8	145.5	134.9
112.5°	134.1	132.6	134.9	134.9	133.4	126.6	123.5	125.8	130.3	129.6	120.5
115°	122.0	121.2	122.0	122.8	120.5	114.4	112.9	115.2	119.7	119.0	111.4
117.5°	113.7	112.9	112.9	113.7	111.4	106.1	105.3	107.6	112.2	111.4	104.6
120°	106.1	106.1	106.1	106.1	104.6	100.0	99.3	102.3	106.1	105.3	99.3
122.5°	98.5	98.5	98.5	98.5	97.0	94.0	94.0	97.0	100.0	99.3	94.0
125°	90.2	90.2	89.4	90.2	88.7	87.1	87.1	90.2	92.5	92.5	87.9
127.5°	81.8	81.8	80.3	81.1	79.6	78.8	79.6	82.6	84.9	84.9	81.8
130°	72.7	72.0	70.5	71.2	69.7	69.7	71.2	74.3	75.8	76.5	73.5
132.5°	62.1	61.4	59.9	59.9	59.9	59.9	61.4	63.7	65.9	65.9	64.4
135°	51.5	50.8	49.3	49.3	49.3	48.5	50.8	53.0	54.6	54.6	53.0
137.5°	40.2	40.2	38.6	39.4	38.6	37.9	39.4	40.9	41.7	42.4	40.9
140°	31.8	31.8	31.1	30.3	29.6	28.8	29.6	30.3	31.1	31.8	31.1
142.5°	25.0	25.0	24.2	24.2	23.5	22.7	22.7	23.5	25.0	25.0	24.2
145°	18.9	18.9	18.9	18.2	17.4	17.4	17.4	18.2	18.9	18.9	18.9
147.5°	13.6	12.9	12.9	12.9	12.1	12.1	12.9	12.9	13.6	13.6	13.6
150°	6.8	6.8	6.8	6.8	6.8	6.8	7.6	7.6	8.3	8.3	7.6
152.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	1.5
155°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.0	0.8	0.0	0.0
165°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.0
167.5°	0.8	0.0	0.8	0.8	0.8	0.0	0.8	0.0	0.8	0.8	0.0
170°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.0	0.0
172.5°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.0	0.8	0.8	0.0
175°	0.0	0.0	0.8	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.0
177.5°	0.8	0.0	0.8	0.8	0.8	0.8	0.8	0.0	0.8	0.8	0.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9	59.9
2.5°	65.9	65.2	63.7	64.4	62.1	61.4	60.6	59.9	59.9	59.9	59.1
5°	84.1	82.6	78.8	77.3	77.3	75.8	75.8	75.0	75.0	75.0	75.0
7.5°	98.5	97.8	94.0	90.9	89.4	88.7	88.7	87.9	87.9	87.1	86.4
10°	106.1	104.6	102.3	100.8	99.3	97.8	96.2	97.0	96.2	94.7	94.7
12.5°	112.2	110.6	108.4	106.8	105.3	103.1	102.3	102.3	101.5	99.3	99.3
15°	118.2	116.7	115.2	112.9	111.4	109.1	107.6	107.6	106.8	104.6	103.8
17.5°	124.3	123.5	121.2	119.0	117.5	115.2	112.9	112.2	111.4	109.9	109.1
20°	131.1	129.6	127.3	125.0	122.8	121.2	119.0	116.7	115.9	115.2	114.4
22.5°	138.7	136.4	134.1	131.1	128.8	128.1	124.3	122.0	121.2	119.7	119.7
25°	145.5	142.5	140.2	137.9	134.9	134.1	130.3	127.3	125.8	125.0	125.0
27.5°	150.8	147.8	145.5	143.2	140.2	139.4	134.9	131.9	129.6	129.6	130.3
30°	154.6	152.3	150.0	147.0	145.5	144.7	139.4	135.6	133.4	134.1	134.1
32.5°	157.6	155.3	153.1	150.0	148.5	147.8	143.2	138.7	136.4	137.2	137.2
35°	159.9	158.4	156.1	153.1	152.3	150.8	146.3	141.7	140.2	141.7	141.0
37.5°	164.4	162.2	159.9	156.1	157.6	155.3	151.6	147.0	147.0	149.3	148.5
40°	175.8	172.8	169.7	165.2	166.0	165.2	162.9	159.1	159.1	162.2	161.4
42.5°	199.3	194.8	189.4	183.4	183.4	181.9	178.8	177.3	178.1	180.4	180.4
45°	234.9	226.6	222.8	215.2	213.7	212.2	209.2	206.1	210.7	209.9	211.4
47.5°	285.7	274.3	269.8	259.9	258.4	257.7	253.1	250.1	251.6	253.1	256.9
50°	354.6	338.0	332.7	322.8	320.5	317.5	308.4	304.6	307.7	309.9	313.0
52.5°	444.8	416.0	414.5	405.4	392.5	397.8	385.7	379.7	381.9	381.2	385.0
55°	534.2	500.9	504.7	492.6	475.1	481.2	457.7	457.0	453.2	450.1	451.6
57.5°	596.4	563.8	579.0	563.8	541.8	547.9	516.8	513.0	511.5	502.4	499.4
60°	644.1	610.8	633.5	612.3	588.1	604.0	560.0	563.0	555.5	545.6	538.8
62.5°	686.6	652.5	679.7	655.5	629.0	645.6	596.4	606.2	591.1	582.7	570.6
65°	726.7	694.9	722.9	701.0	665.3	688.8	632.8	650.9	635.0	619.9	608.5
67.5°	765.4	734.3	766.9	744.9	706.3	729.0	660.8	688.1	671.4	654.7	641.1
70°	798.0	765.4	803.3	782.8	741.1	756.3	675.2	723.7	700.2	685.0	666.1
72.5°	828.3	790.4	837.4	818.4	774.5	787.4	696.4	751.7	714.6	700.2	686.6
75°	848.0	806.3	865.4	843.4	807.8	814.6	722.2	773.7	741.1	717.6	707.0
77.5°	866.2	820.7	882.8	857.1	824.5	828.3	738.9	788.9	752.5	726.0	712.3
79°	862.4	819.9	885.9	863.1	832.1	833.6	742.6	788.9	753.3	723.7	713.8
80°	853.3	813.1	878.3	852.5	821.5	823.7	738.9	782.8	755.5	715.4	706.3
82.5°	843.4	801.8	866.9	843.4	812.4	810.1	733.5	773.7	740.4	707.8	697.9
85°	817.7	781.3	842.7	819.2	793.4	789.6	716.9	754.0	725.2	684.3	676.0
87.5°	793.4	757.8	819.9	797.2	772.2	769.2	703.2	740.4	707.8	663.8	659.3
90°	766.9	730.5	788.9	766.1	738.1	732.8	672.9	710.1	683.5	641.1	636.6
92.5°	719.2	686.6	741.9	722.2	698.7	694.9	637.3	671.4	646.4	608.5	604.0
95°	676.0	644.9	694.1	677.5	655.5	654.7	597.9	634.3	610.0	575.9	573.7
97.5°	629.0	598.7	641.1	625.9	604.0	601.7	548.6	581.2	560.0	528.9	526.7
100°	554.7	528.9	557.0	545.6	519.8	526.7	479.7	514.5	497.9	470.6	465.3
102.5°	416.0	395.6	404.7	395.6	372.8	382.7	358.4	395.6	388.8	373.6	369.0
105°	235.7	229.6	235.7	232.6	224.3	222.0	209.9	234.9	229.6	224.3	221.3
107.5°	159.1	154.6	159.9	157.6	147.8	147.0	137.9	149.3	144.0	139.4	137.2



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	129.6	125.8	129.6	128.8	122.0	119.7	112.9	120.5	116.7	112.9	111.4
112.5°	115.9	112.9	115.9	115.2	108.4	107.6	102.3	108.4	105.3	102.3	101.5
115°	107.6	104.6	106.8	106.1	100.0	99.3	94.7	100.0	97.8	94.7	94.0
117.5°	101.5	98.5	100.0	98.5	94.0	92.5	88.7	93.2	91.7	87.9	87.1
120°	96.2	93.2	94.7	92.5	87.9	86.4	83.4	86.4	84.9	82.6	81.8
122.5°	91.7	88.7	89.4	86.4	81.8	79.6	77.3	78.8	78.1	75.8	75.0
125°	85.6	82.6	82.6	79.6	74.3	72.7	70.5	71.2	70.5	69.7	69.0
127.5°	78.8	76.5	75.0	72.0	67.4	64.4	62.9	63.7	63.7	62.9	62.1
130°	71.2	69.0	65.9	62.9	59.1	56.8	54.6	56.1	56.1	56.1	56.1
132.5°	62.1	59.9	56.8	53.8	50.0	48.5	46.2	47.7	48.5	49.3	48.5
135°	51.5	50.0	47.0	44.0	40.9	38.6	37.9	39.4	40.9	40.9	40.2
137.5°	40.2	38.6	37.1	34.9	31.8	30.3	29.6	31.1	32.6	32.6	31.8
140°	30.3	30.3	28.8	26.5	23.5	22.7	22.7	23.5	24.2	24.2	23.5
142.5°	23.5	23.5	22.0	20.5	18.2	17.4	17.4	18.2	18.9	18.9	18.2
145°	18.2	18.2	16.7	15.2	13.6	12.9	12.9	13.6	14.4	14.4	13.6
147.5°	13.6	12.9	11.4	10.6	9.1	9.1	9.1	9.1	9.9	9.9	9.9
150°	7.6	7.6	6.8	5.3	4.5	4.5	4.5	5.3	6.1	6.1	5.3
152.5°	1.5	1.5	1.5	1.5	0.8	0.0	0.8	0.8	0.8	0.8	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0
167.5°	0.0	0.0	0.0	0.8	0.0	0.0	0.0	0.8	0.8	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0
172.5°	0.0	0.0	0.8	0.8	0.0	0.0	0.0	0.8	0.8	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8	0.8	0.0	0.0
177.5°	0.0	0.0	0.8	0.8	0.0	0.8	0.0	0.8	0.8	0.0	0.0
180°	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8	0.8

(END OF REPORT)