

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: P314546

Luminaire Tested: **MPN-A2-D-U-SYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314546
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-A2-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: 1815 lumens
Efficiency: N/A
Efficacy: 103.1 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B1 - U3 - G2

Input Watts (W): 17.6
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

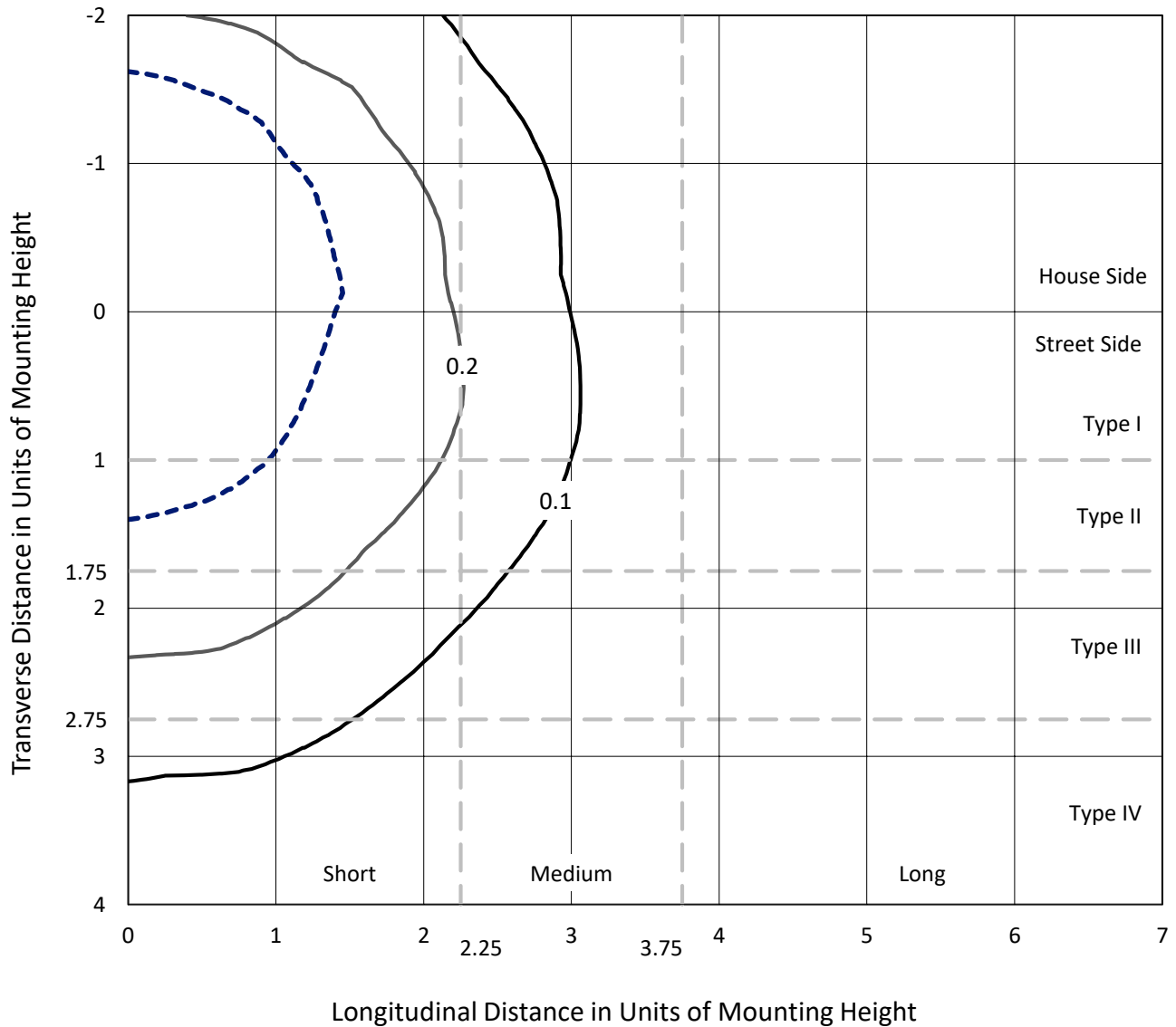


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Iso-Footcandle Lines of Horizontal Illumination

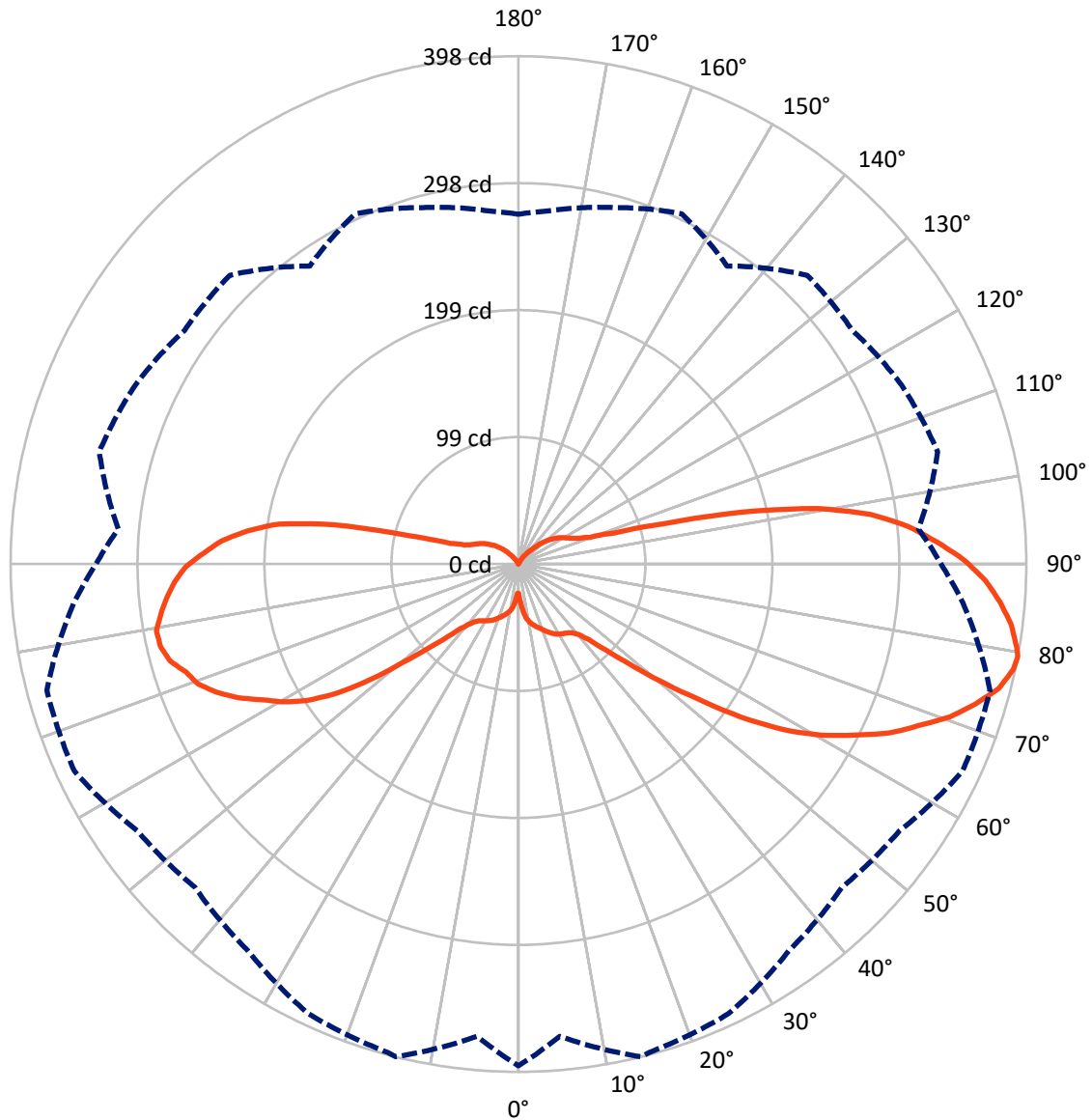
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.5 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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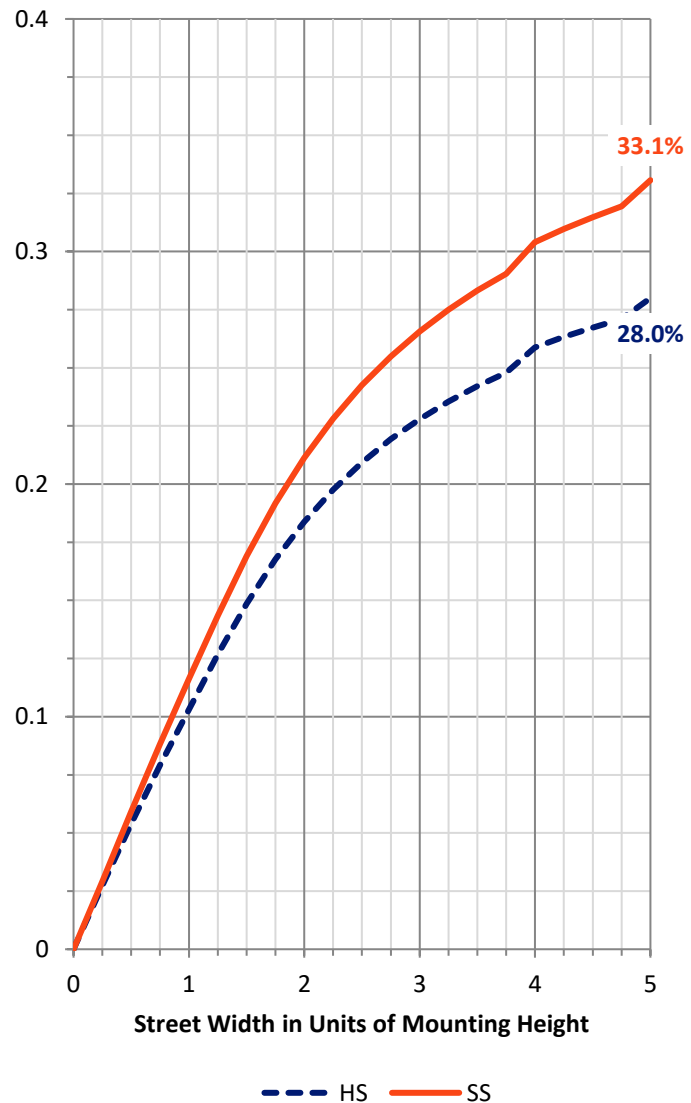
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	598.2	228.0	826.1
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	715.5	273.3	988.8
	% Fixture	39.4	15.1	54.5
Total	Lumens	1313.7	501.3	1815.0
	% Fixture	72.4	27.6	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.2
10°-20°	13.0	0.7
20°-30°	25.4	1.4
30°-40°	38.6	2.1
40°-50°	72.9	4.0
50°-60°	175.9	9.7
60°-70°	280.0	15.4
70°-80°	351.1	19.3
80°-90°	353.5	19.5
90°-100°	289.8	16.0
100°-110°	122.4	6.7
110°-120°	42.4	2.3
120°-130°	28.2	1.6
130°-140°	14.1	0.8
140°-150°	4.1	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1313.7	72.4
0°-180°	1815.0	100.0



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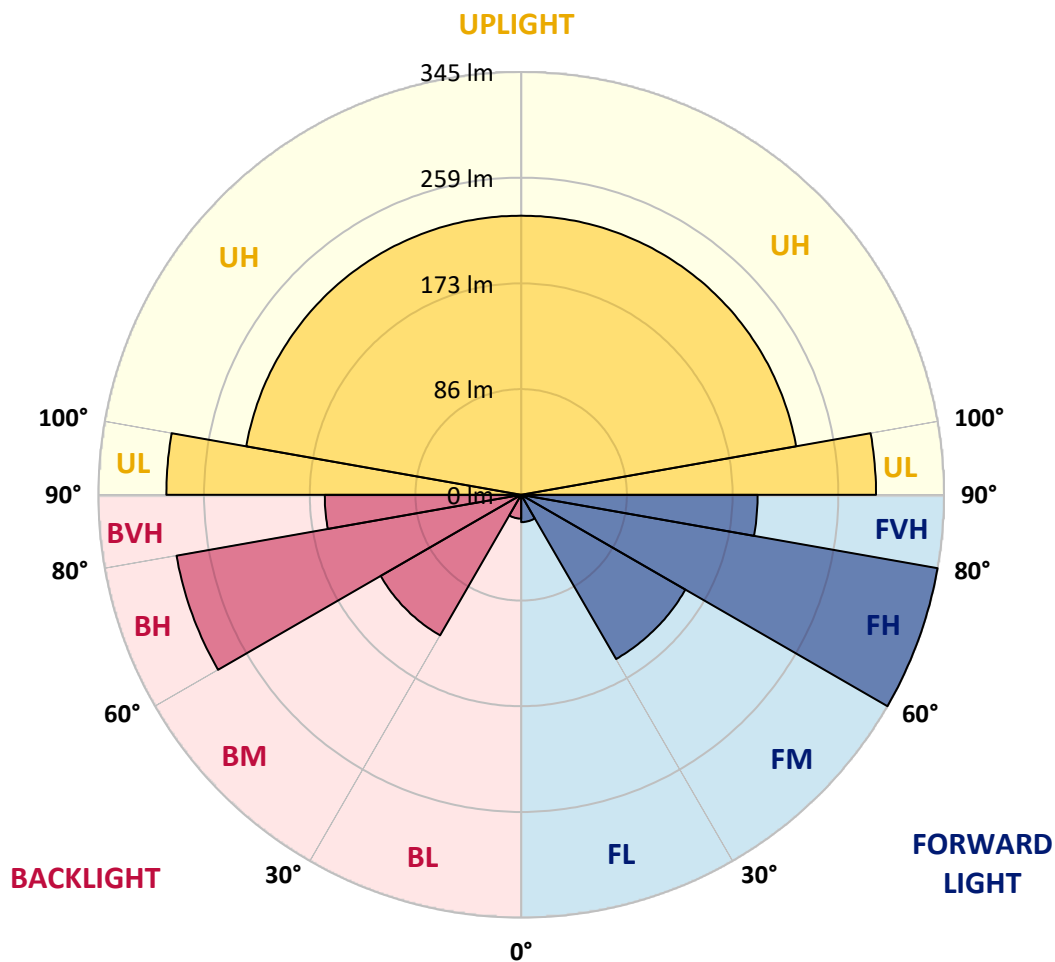
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	22.3	1.2			
FM (30°-60°)	154.9	8.5			
FH (60°-80°)	345.3	19.0			G0/660
FVH (80°-90°)	193.1	10.6			G2/225
BL (0°-30°)	19.4	1.1	B0/110		
BM (30°-60°)	132.5	7.3	B0/220		
BH (60°-80°)	285.8	15.7	B1/500		G0/660
BVH (80°-90°)	160.4	8.8			G2/225
UL (90°-100°)	289.8	16.0		U3/500	
UH (100°-180°)	228.0	12.6		U3/500	

BUG Rating: B1-U3-G2

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
2.5°	30.5	29.7	29.7	30.0	30.0	28.8	27.9	27.9	27.3	26.8	25.6
5°	37.2	36.6	36.6	36.6	36.6	36.9	36.1	35.5	34.3	33.7	32.9
7.5°	42.5	42.2	42.2	42.5	42.2	41.9	41.0	41.0	39.8	39.3	38.4
10°	46.2	46.0	46.0	46.0	45.4	44.8	44.2	43.9	43.0	42.2	41.3
12.5°	48.3	48.0	48.3	48.3	47.7	46.5	46.2	46.0	45.4	44.5	43.3
15°	50.6	50.3	50.6	50.6	49.7	49.2	48.6	48.3	47.7	47.1	46.0
17.5°	52.9	52.6	52.6	52.6	52.4	51.2	50.6	50.9	50.0	49.2	48.3
20°	55.6	55.3	55.0	55.0	54.7	53.5	53.2	52.9	52.4	51.5	50.6
22.5°	58.5	57.9	57.6	57.6	57.3	56.1	56.1	55.8	55.0	54.1	53.5
25°	61.4	61.1	59.9	59.9	59.6	58.8	59.0	58.5	57.6	56.4	56.1
27.5°	63.7	63.1	62.2	61.9	61.7	60.8	61.1	60.5	59.3	58.5	58.2
30°	65.1	64.9	63.7	63.7	62.8	62.5	62.5	61.7	60.5	59.6	59.9
32.5°	66.0	66.0	64.9	64.6	64.0	63.7	63.4	62.8	61.4	60.5	60.8
35°	67.5	67.2	66.3	66.0	65.1	65.1	64.6	63.7	61.9	61.7	61.9
37.5°	69.2	68.9	68.3	68.1	66.6	67.2	66.3	65.7	64.0	63.7	63.4
40°	73.3	73.3	72.4	72.4	70.7	72.1	71.3	71.5	69.8	69.5	68.3
42.5°	80.9	80.9	81.1	81.4	80.0	81.4	81.1	82.6	81.1	80.0	78.2
45°	95.7	94.5	96.3	95.7	94.8	96.3	95.7	97.7	97.1	95.7	93.9
47.5°	114.0	116.3	116.6	117.2	115.5	117.2	116.6	119.0	120.1	118.4	113.7
50°	139.3	141.6	144.3	144.3	142.8	143.4	143.1	146.6	148.0	148.3	141.9
52.5°	169.0	171.3	174.8	176.8	174.5	176.3	176.8	183.5	188.2	187.6	176.5
55°	203.9	207.4	211.7	212.9	208.8	210.0	210.6	219.0	228.3	227.1	212.9
57.5°	237.9	241.1	244.9	246.9	242.0	240.5	235.9	245.8	257.7	257.1	236.2
60°	265.8	268.2	272.2	274.3	269.3	266.4	256.5	267.0	280.7	281.5	257.1
62.5°	290.6	291.7	295.2	297.2	291.7	288.5	276.3	287.4	300.7	301.9	275.4
65°	312.4	310.6	319.3	319.9	312.1	307.1	295.5	307.4	320.2	321.1	291.1
67.5°	331.9	328.4	338.0	340.0	331.3	323.7	312.7	321.7	335.6	335.1	308.6
70°	349.3	344.7	358.6	359.8	348.1	338.0	331.6	336.8	352.5	352.8	323.7
72.5°	367.0	358.3	374.6	374.9	365.0	350.2	342.3	349.0	364.4	363.0	335.6
75°	381.0	365.6	388.9	387.7	378.7	360.6	353.1	358.3	376.6	376.1	343.8
77.5°	394.4	372.3	396.4	395.5	387.4	367.9	358.6	365.9	383.3	383.0	351.0
79°	393.2	371.4	397.9	396.1	388.9	369.7	358.3	364.4	383.9	382.5	349.6
80°	392.1	368.8	395.8	394.4	386.5	367.6	354.2	359.2	378.7	377.8	344.9
82.5°	383.9	362.4	388.9	386.8	380.1	363.0	350.2	354.8	377.8	374.9	340.6
85°	372.9	352.5	378.4	376.6	370.2	353.7	338.8	342.6	363.0	362.4	330.4
87.5°	358.6	340.0	365.9	364.1	358.3	343.2	328.4	332.7	353.4	353.1	319.3
90°	344.9	326.9	349.3	348.7	342.9	328.9	316.1	322.8	344.1	342.9	309.5
92.5°	324.3	308.0	328.4	328.7	323.1	311.5	299.6	305.1	321.7	321.4	290.6
95°	303.4	288.2	306.8	306.8	301.6	291.4	279.2	283.3	299.6	302.2	272.5
97.5°	275.7	262.3	278.9	279.5	275.4	266.7	256.2	261.5	277.2	279.8	252.7
100°	233.0	224.0	238.5	239.9	236.7	231.5	224.2	231.8	245.5	248.4	224.8
102.5°	170.4	167.8	180.6	180.0	178.9	177.4	175.7	179.7	188.8	193.1	169.0
105°	115.8	111.4	118.1	117.8	115.5	111.7	107.3	107.0	109.4	107.6	95.7
107.5°	77.9	76.2	78.8	79.1	77.4	74.2	70.1	69.8	71.8	70.7	64.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	59.3	58.5	59.9	60.2	59.3	56.7	54.7	54.7	56.7	55.8	51.8
112.5°	51.5	50.9	51.8	51.8	51.2	48.6	47.4	48.3	50.0	49.7	46.2
115°	46.8	46.5	46.8	47.1	46.2	43.9	43.3	44.2	46.0	45.7	42.8
117.5°	43.6	43.3	43.3	43.6	42.8	40.7	40.4	41.3	43.0	42.8	40.1
120°	40.7	40.7	40.7	40.7	40.1	38.4	38.1	39.3	40.7	40.4	38.1
122.5°	37.8	37.8	37.8	37.8	37.2	36.1	36.1	37.2	38.4	38.1	36.1
125°	34.6	34.6	34.3	34.6	34.0	33.4	33.4	34.6	35.5	35.5	33.7
127.5°	31.4	31.4	30.8	31.1	30.5	30.2	30.5	31.7	32.6	32.6	31.4
130°	27.9	27.6	27.0	27.3	26.8	26.8	27.3	28.5	29.1	29.4	28.2
132.5°	23.8	23.6	23.0	23.0	23.0	23.0	23.6	24.4	25.3	25.3	24.7
135°	19.8	19.5	18.9	18.9	18.9	18.6	19.5	20.4	20.9	20.9	20.4
137.5°	15.4	15.4	14.8	15.1	14.8	14.5	15.1	15.7	16.0	16.3	15.7
140°	12.2	12.2	11.9	11.6	11.3	11.1	11.3	11.6	11.9	12.2	11.9
142.5°	9.6	9.6	9.3	9.3	9.0	8.7	8.7	9.0	9.6	9.6	9.3
145°	7.3	7.3	7.3	7.0	6.7	6.7	6.7	7.0	7.3	7.3	7.3
147.5°	5.2	4.9	4.9	4.9	4.7	4.7	4.9	4.9	5.2	5.2	5.2
150°	2.6	2.6	2.6	2.6	2.6	2.6	2.9	2.9	3.2	3.2	2.9
152.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.6
155°	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.0	0.3	0.0	0.0
165°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.0
167.5°	0.3	0.0	0.3	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.0
170°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.0	0.0
172.5°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3	0.0
175°	0.0	0.0	0.3	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.0
177.5°	0.3	0.0	0.3	0.3	0.3	0.3	0.3	0.0	0.3	0.3	0.0
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0	23.0
2.5°	25.3	25.0	24.4	24.7	23.8	23.6	23.3	23.0	23.0	23.0	22.7
5°	32.3	31.7	30.2	29.7	29.7	29.1	29.1	28.8	28.8	28.8	28.8
7.5°	37.8	37.5	36.1	34.9	34.3	34.0	34.0	33.7	33.7	33.4	33.2
10°	40.7	40.1	39.3	38.7	38.1	37.5	36.9	37.2	36.9	36.4	36.4
12.5°	43.0	42.5	41.6	41.0	40.4	39.6	39.3	39.3	39.0	38.1	38.1
15°	45.4	44.8	44.2	43.3	42.8	41.9	41.3	41.3	41.0	40.1	39.8
17.5°	47.7	47.4	46.5	45.7	45.1	44.2	43.3	43.0	42.8	42.2	41.9
20°	50.3	49.7	48.9	48.0	47.1	46.5	45.7	44.8	44.5	44.2	43.9
22.5°	53.2	52.4	51.5	50.3	49.4	49.2	47.7	46.8	46.5	46.0	46.0
25°	55.8	54.7	53.8	52.9	51.8	51.5	50.0	48.9	48.3	48.0	48.0
27.5°	57.9	56.7	55.8	55.0	53.8	53.5	51.8	50.6	49.7	49.7	50.0
30°	59.3	58.5	57.6	56.4	55.8	55.6	53.5	52.1	51.2	51.5	51.5
32.5°	60.5	59.6	58.8	57.6	57.0	56.7	55.0	53.2	52.4	52.6	52.6
35°	61.4	60.8	59.9	58.8	58.5	57.9	56.1	54.4	53.8	54.4	54.1
37.5°	63.1	62.2	61.4	59.9	60.5	59.6	58.2	56.4	56.4	57.3	57.0
40°	67.5	66.3	65.1	63.4	63.7	63.4	62.5	61.1	61.1	62.2	61.9
42.5°	76.5	74.7	72.7	70.4	70.4	69.8	68.6	68.1	68.3	69.2	69.2
45°	90.2	87.0	85.5	82.6	82.0	81.4	80.3	79.1	80.9	80.6	81.1
47.5°	109.6	105.3	103.5	99.8	99.2	98.9	97.1	96.0	96.6	97.1	98.6
50°	136.1	129.7	127.7	123.9	123.0	121.9	118.4	116.9	118.1	119.0	120.1
52.5°	170.7	159.7	159.1	155.6	150.7	152.7	148.0	145.7	146.6	146.3	147.7
55°	205.0	192.2	193.7	189.0	182.4	184.7	175.7	175.4	173.9	172.8	173.3
57.5°	228.9	216.4	222.2	216.4	208.0	210.3	198.4	196.9	196.3	192.8	191.7
60°	247.2	234.4	243.1	235.0	225.7	231.8	214.9	216.1	213.2	209.4	206.8
62.5°	263.5	250.4	260.9	251.6	241.4	247.8	228.9	232.7	226.9	223.7	219.0
65°	278.9	266.7	277.5	269.0	255.4	264.4	242.9	249.8	243.7	237.9	233.5
67.5°	293.8	281.8	294.3	285.9	271.1	279.8	253.6	264.1	257.7	251.3	246.1
70°	306.3	293.8	308.3	300.4	284.4	290.3	259.1	277.8	268.7	262.9	255.7
72.5°	317.9	303.4	321.4	314.1	297.2	302.2	267.3	288.5	274.3	268.7	263.5
75°	325.5	309.5	332.1	323.7	310.0	312.7	277.2	297.0	284.4	275.4	271.4
77.5°	332.4	315.0	338.8	328.9	316.4	317.9	283.6	302.8	288.8	278.6	273.4
79°	331.0	314.7	340.0	331.3	319.3	319.9	285.0	302.8	289.1	277.8	274.0
80°	327.5	312.1	337.1	327.2	315.3	316.1	283.6	300.4	290.0	274.6	271.1
82.5°	323.7	307.7	332.7	323.7	311.8	310.9	281.5	297.0	284.2	271.6	267.9
85°	313.8	299.9	323.4	314.4	304.5	303.1	275.1	289.4	278.3	262.6	259.4
87.5°	304.5	290.8	314.7	306.0	296.4	295.2	269.9	284.2	271.6	254.8	253.0
90°	294.3	280.4	302.8	294.0	283.3	281.2	258.3	272.5	262.3	246.1	244.3
92.5°	276.0	263.5	284.7	277.2	268.2	266.7	244.6	257.7	248.1	233.5	231.8
95°	259.4	247.5	266.4	260.0	251.6	251.3	229.5	243.4	234.1	221.0	220.2
97.5°	241.4	229.8	246.1	240.2	231.8	230.9	210.6	223.1	214.9	203.0	202.1
100°	212.9	203.0	213.8	209.4	199.5	202.1	184.1	197.5	191.1	180.6	178.6
102.5°	159.7	151.8	155.3	151.8	143.1	146.9	137.6	151.8	149.2	143.4	141.6
105°	90.5	88.1	90.5	89.3	86.1	85.2	80.6	90.2	88.1	86.1	84.9
107.5°	61.1	59.3	61.4	60.5	56.7	56.4	52.9	57.3	55.3	53.5	52.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	49.7	48.3	49.7	49.4	46.8	46.0	43.3	46.2	44.8	43.3	42.8
112.5°	44.5	43.3	44.5	44.2	41.6	41.3	39.3	41.6	40.4	39.3	39.0
115°	41.3	40.1	41.0	40.7	38.4	38.1	36.4	38.4	37.5	36.4	36.1
117.5°	39.0	37.8	38.4	37.8	36.1	35.5	34.0	35.8	35.2	33.7	33.4
120°	36.9	35.8	36.4	35.5	33.7	33.2	32.0	33.2	32.6	31.7	31.4
122.5°	35.2	34.0	34.3	33.2	31.4	30.5	29.7	30.2	30.0	29.1	28.8
125°	32.9	31.7	31.7	30.5	28.5	27.9	27.0	27.3	27.0	26.8	26.5
127.5°	30.2	29.4	28.8	27.6	25.9	24.7	24.1	24.4	24.4	24.1	23.8
130°	27.3	26.5	25.3	24.1	22.7	21.8	20.9	21.5	21.5	21.5	21.5
132.5°	23.8	23.0	21.8	20.6	19.2	18.6	17.7	18.3	18.6	18.9	18.6
135°	19.8	19.2	18.0	16.9	15.7	14.8	14.5	15.1	15.7	15.7	15.4
137.5°	15.4	14.8	14.3	13.4	12.2	11.6	11.3	11.9	12.5	12.5	12.2
140°	11.6	11.6	11.1	10.2	9.0	8.7	8.7	9.0	9.3	9.3	9.0
142.5°	9.0	9.0	8.4	7.9	7.0	6.7	6.7	7.0	7.3	7.3	7.0
145°	7.0	7.0	6.4	5.8	5.2	4.9	4.9	5.2	5.5	5.5	5.2
147.5°	5.2	4.9	4.4	4.1	3.5	3.5	3.5	3.5	3.8	3.8	3.8
150°	2.9	2.9	2.6	2.0	1.7	1.7	1.7	2.0	2.3	2.3	2.0
152.5°	0.6	0.6	0.6	0.6	0.3	0.0	0.3	0.3	0.3	0.3	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	0.3	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0
167.5°	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.3	0.3	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0
172.5°	0.0	0.0	0.3	0.3	0.0	0.0	0.0	0.3	0.3	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.3	0.0	0.0
177.5°	0.0	0.0	0.3	0.3	0.0	0.3	0.0	0.3	0.3	0.0	0.0
180°	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3	0.3

(END OF REPORT)