

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: P314540

Luminaire Tested: **MPN-A2-D-U-SYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314540
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-7027
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. SYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1728 lumens
Efficiency: N/A
Efficacy: 98.2 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



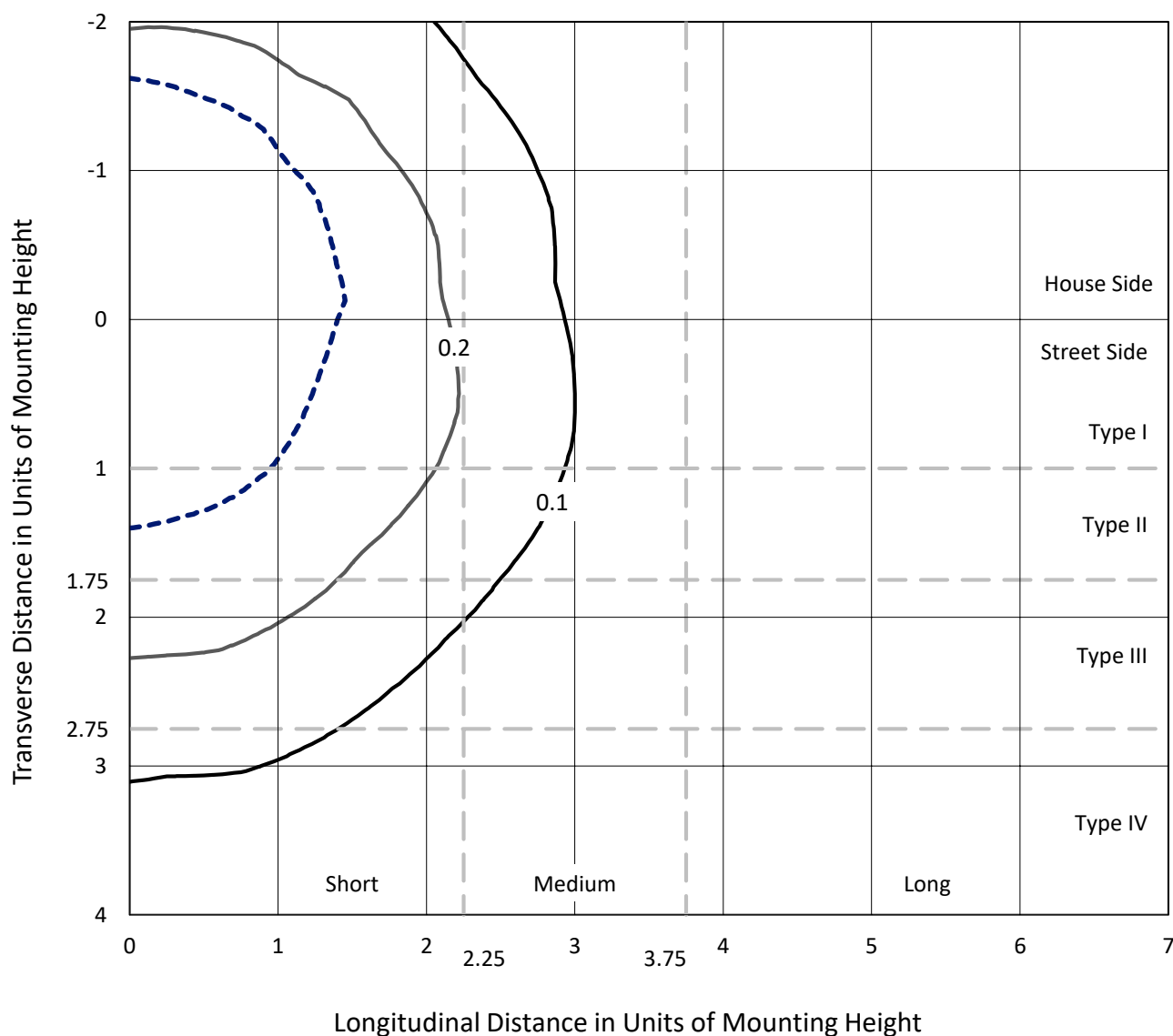
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

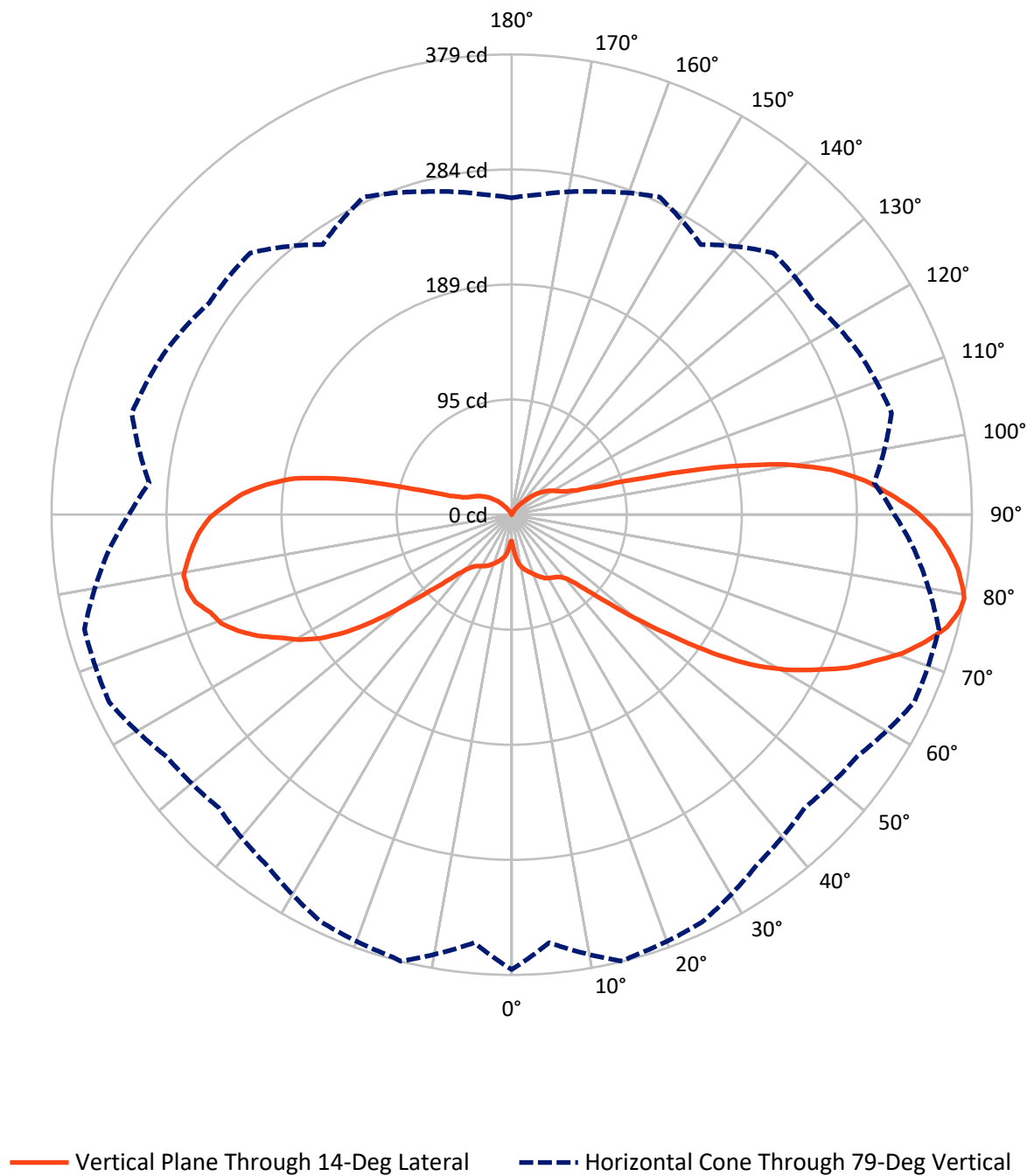


Based on 10 foot mounting height. Maximum calculated value = 0.4 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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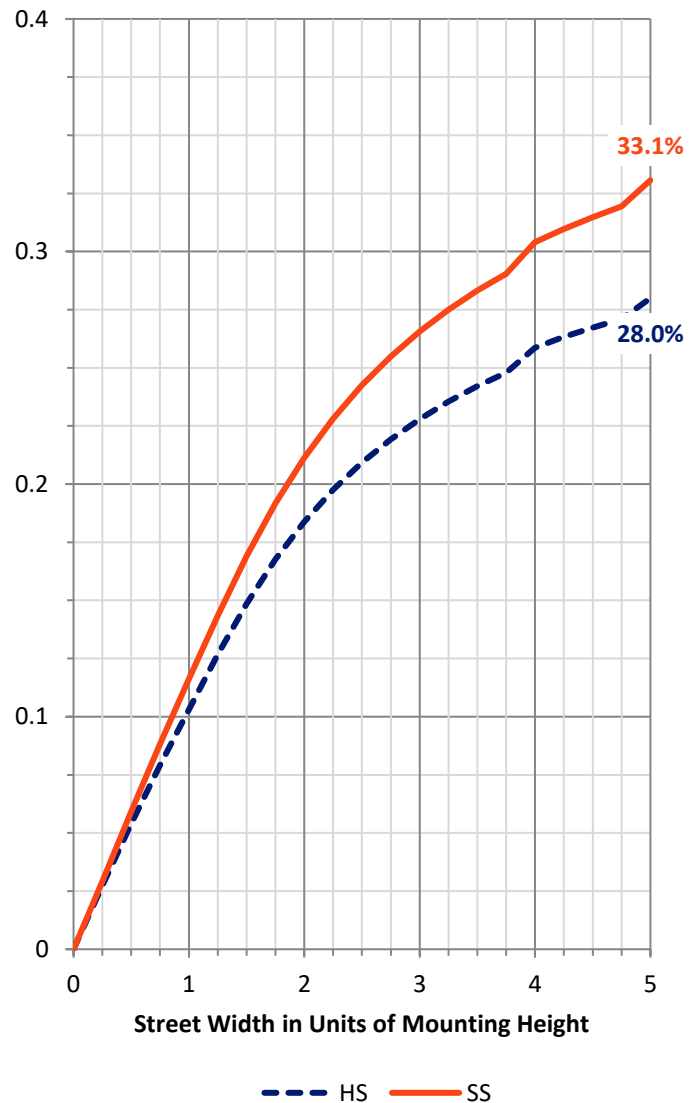
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	569.5	217.1	786.6
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	681.3	260.2	941.5
	% Fixture	39.4	15.1	54.5
Total	Lumens	1250.7	477.3	1728.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.2	0.2
10°-20°	12.4	0.7
20°-30°	24.1	1.4
30°-40°	36.8	2.1
40°-50°	69.4	4.0
50°-60°	167.4	9.7
60°-70°	266.6	15.4
70°-80°	334.3	19.3
80°-90°	336.5	19.5
90°-100°	275.9	16.0
100°-110°	116.5	6.7
110°-120°	40.4	2.3
120°-130°	26.9	1.6
130°-140°	13.4	0.8
140°-150°	3.9	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1250.7	72.4
0°-180°	1728.0	100.0

Coefficient of Utilization



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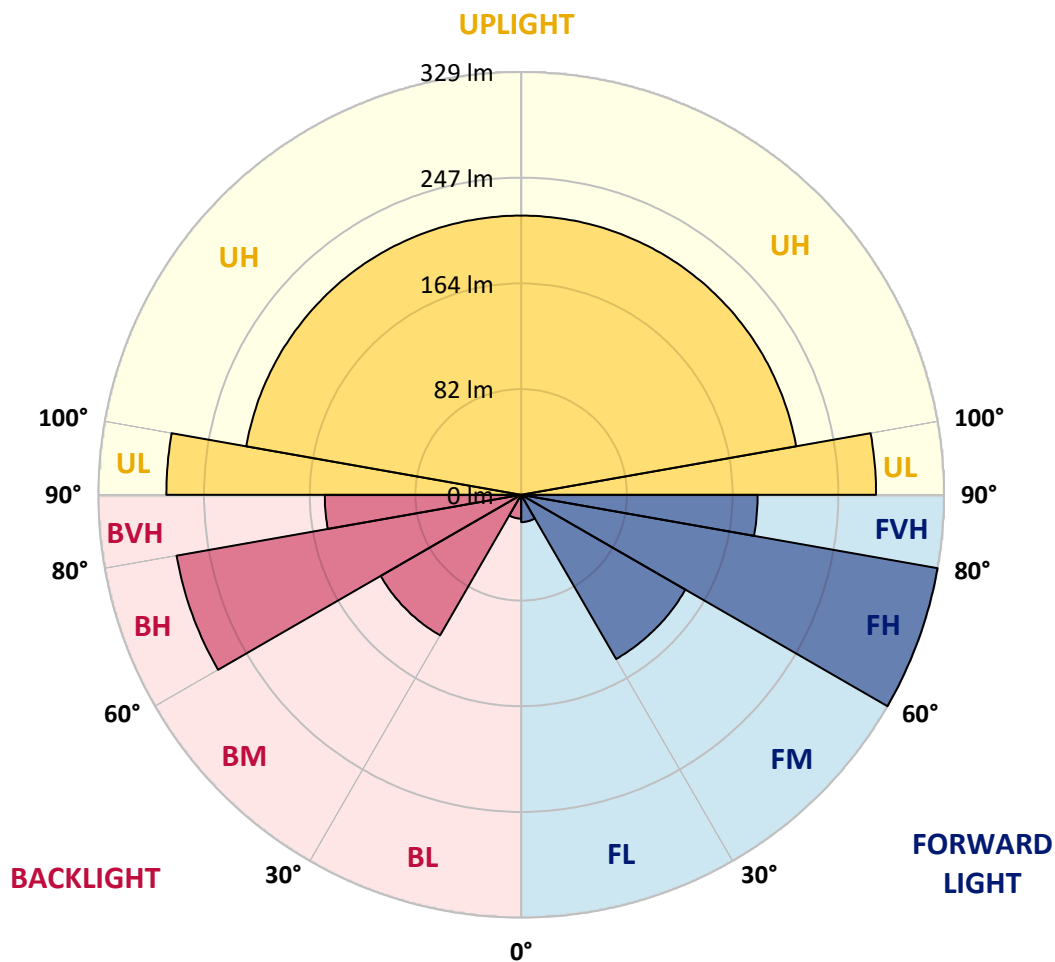
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	21.2	1.2			
FM	(30°-60°)	147.5	8.5			
FH	(60°-80°)	328.8	19.0			G0/660
FVH	(80°-90°)	183.8	10.6			G2/225
BL	(0°-30°)	18.5	1.1	B0/110		
BM	(30°-60°)	126.2	7.3	B0/220		
BH	(60°-80°)	272.1	15.7	B1/500		G0/660
BVH	(80°-90°)	152.7	8.8			G2/225
UL	(90°-100°)	275.9	16.0		U3/500	
UH	(100°-180°)	217.1	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°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
2.5°	29.1	28.2	28.2	28.5	28.5	27.4	26.6	26.6	26.0	25.5	24.4
5°	35.4	34.9	34.9	34.9	34.9	35.2	34.3	33.8	32.7	32.1	31.3
7.5°	40.4	40.2	40.2	40.4	40.2	39.9	39.0	39.0	37.9	37.4	36.6
10°	44.0	43.8	43.8	43.8	43.2	42.6	42.1	41.8	41.0	40.2	39.3
12.5°	46.0	45.7	46.0	46.0	45.4	44.3	44.0	43.8	43.2	42.4	41.3
15°	48.2	47.9	48.2	48.2	47.4	46.8	46.2	46.0	45.4	44.9	43.8
17.5°	50.4	50.1	50.1	50.1	49.8	48.7	48.2	48.5	47.6	46.8	46.0
20°	52.9	52.6	52.3	52.3	52.1	51.0	50.7	50.4	49.8	49.0	48.2
22.5°	55.7	55.1	54.8	54.8	54.5	53.4	53.4	53.2	52.3	51.5	51.0
25°	58.4	58.1	57.0	57.0	56.8	55.9	56.2	55.7	54.8	53.7	53.4
27.5°	60.6	60.1	59.0	59.0	58.7	57.9	58.1	57.6	56.5	55.7	55.4
30°	62.0	61.7	60.6	60.6	59.8	59.5	59.5	58.7	57.6	56.8	57.0
32.5°	62.9	62.9	61.5	61.5	60.9	60.6	60.4	59.8	58.4	57.6	57.9
35°	64.2	64.0	62.9	62.9	62.0	62.0	61.5	60.6	59.0	58.7	59.0
37.5°	65.9	65.6	64.8	64.8	63.4	64.0	63.1	62.6	60.9	60.6	60.4
40°	69.8	69.8	68.9	68.9	67.3	68.7	67.8	68.1	66.5	66.2	65.1
42.5°	77.0	77.0	77.5	77.5	76.1	77.5	77.3	78.6	77.3	76.1	74.5
45°	91.1	90.0	91.1	91.1	90.3	91.7	91.1	93.0	92.5	91.1	89.4
47.5°	108.5	110.8	111.6	111.6	109.9	111.6	111.0	113.3	114.4	112.7	108.3
50°	132.6	134.9	137.3	137.3	136.0	136.5	136.2	139.6	140.9	141.2	135.1
52.5°	160.9	163.1	168.4	168.4	166.1	167.8	168.4	174.7	179.2	178.6	168.1
55°	194.1	197.4	202.7	202.7	198.8	199.9	200.5	208.5	217.4	216.3	202.7
57.5°	226.5	229.6	235.1	235.1	230.4	229.0	224.6	234.0	245.3	244.8	224.8
60°	253.1	255.3	261.1	261.1	256.4	253.6	244.2	254.2	267.2	268.0	244.8
62.5°	276.6	277.7	283.0	283.0	277.7	274.7	263.1	273.6	286.3	287.4	262.2
65°	297.4	295.7	304.6	304.6	297.1	292.4	281.3	292.7	304.9	305.7	277.2
67.5°	315.9	312.6	323.7	323.7	315.4	308.2	297.7	306.3	319.5	319.0	293.8
70°	332.6	328.1	342.5	342.5	331.5	321.8	315.7	320.7	335.6	335.9	308.2
72.5°	349.5	341.1	356.9	356.9	347.5	333.4	325.9	332.3	347.0	345.6	319.5
75°	362.7	348.1	369.1	369.1	360.5	343.4	336.2	341.1	358.6	358.0	327.3
77.5°	375.5	354.4	376.6	376.6	368.8	350.3	341.4	348.3	365.0	364.7	334.2
79°	374.4	353.6	377.1	377.1	370.2	351.9	341.1	347.0	365.5	364.1	332.8
80°	373.3	351.1	375.5	375.5	368.0	350.0	337.3	342.0	360.5	359.7	328.4
82.5°	365.5	345.0	368.3	368.3	361.9	345.6	333.4	337.8	359.7	356.9	324.3
85°	355.0	335.6	358.6	358.6	352.5	336.7	322.6	326.2	345.6	345.0	314.6
87.5°	341.4	323.7	346.7	346.7	341.1	326.7	312.6	316.8	336.4	336.2	304.0
90°	328.4	311.2	332.0	332.0	326.5	313.2	301.0	307.4	327.6	326.5	294.6
92.5°	308.7	293.2	312.9	312.9	307.6	296.6	285.2	290.5	306.3	306.0	276.6
95°	288.8	274.4	292.1	292.1	287.1	277.5	265.8	269.7	285.2	287.7	259.5
97.5°	262.5	249.8	266.1	266.1	262.2	253.9	244.0	248.9	263.9	266.4	240.6
100°	221.8	213.2	228.4	228.4	225.4	220.4	213.5	220.7	233.7	236.5	214.0
102.5°	162.3	159.8	171.4	171.4	170.3	168.9	167.2	171.1	179.7	183.9	160.9
105°	110.2	106.1	112.1	112.1	109.9	106.3	102.2	101.9	104.1	102.5	91.1
107.5°	74.2	72.5	75.3	75.3	73.7	70.6	66.7	66.5	68.4	67.3	61.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	56.5	55.7	57.0	57.3	56.5	54.0	52.1	52.1	54.0	53.2	49.3
112.5°	49.0	48.5	49.3	49.3	48.7	46.2	45.1	46.0	47.6	47.4	44.0
115°	44.6	44.3	44.6	44.9	44.0	41.8	41.3	42.1	43.8	43.5	40.7
117.5°	41.5	41.3	41.3	41.5	40.7	38.8	38.5	39.3	41.0	40.7	38.2
120°	38.8	38.8	38.8	38.8	38.2	36.6	36.3	37.4	38.8	38.5	36.3
122.5°	36.0	36.0	36.0	36.0	35.4	34.3	34.3	35.4	36.6	36.3	34.3
125°	33.0	33.0	32.7	33.0	32.4	31.8	31.8	33.0	33.8	33.8	32.1
127.5°	29.9	29.9	29.4	29.6	29.1	28.8	29.1	30.2	31.0	31.0	29.9
130°	26.6	26.3	25.8	26.0	25.5	25.5	26.0	27.1	27.7	28.0	26.9
132.5°	22.7	22.4	21.9	21.9	21.9	21.9	22.4	23.3	24.1	24.1	23.5
135°	18.8	18.6	18.0	18.0	18.0	17.7	18.6	19.4	19.9	19.9	19.4
137.5°	14.7	14.7	14.1	14.4	14.1	13.8	14.4	15.0	15.2	15.5	15.0
140°	11.6	11.6	11.4	11.1	10.8	10.5	10.8	11.1	11.4	11.6	11.4
142.5°	9.1	9.1	8.9	8.9	8.6	8.3	8.3	8.6	9.1	9.1	8.9
145°	6.9	6.9	6.9	6.6	6.4	6.4	6.4	6.6	6.9	6.9	6.9
147.5°	5.0	4.7	4.7	4.7	4.4	4.4	4.7	4.7	5.0	5.0	5.0
150°	2.5	2.5	2.5	2.5	2.5	2.5	2.8	2.8	3.0	3.0	2.8
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°	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9	21.9
2.5°	24.1	23.8	23.3	23.5	22.7	22.4	22.2	21.9	21.9	21.9	21.6
5°	30.7	30.2	28.8	28.2	28.2	27.7	27.7	27.4	27.4	27.4	27.4
7.5°	36.0	35.7	34.3	33.2	32.7	32.4	32.4	32.1	32.1	31.8	31.6
10°	38.8	38.2	37.4	36.8	36.3	35.7	35.2	35.4	35.2	34.6	34.6
12.5°	41.0	40.4	39.6	39.0	38.5	37.7	37.4	37.4	37.1	36.3	36.3
15°	43.2	42.6	42.1	41.3	40.7	39.9	39.3	39.3	39.0	38.2	37.9
17.5°	45.4	45.1	44.3	43.5	42.9	42.1	41.3	41.0	40.7	40.2	39.9
20°	47.9	47.4	46.5	45.7	44.9	44.3	43.5	42.6	42.4	42.1	41.8
22.5°	50.7	49.8	49.0	47.9	47.1	46.8	45.4	44.6	44.3	43.8	43.8
25°	53.2	52.1	51.2	50.4	49.3	49.0	47.6	46.5	46.0	45.7	45.7
27.5°	55.1	54.0	53.2	52.3	51.2	51.0	49.3	48.2	47.4	47.4	47.6
30°	56.5	55.7	54.8	53.7	53.2	52.9	51.0	49.6	48.7	49.0	49.0
32.5°	57.6	56.8	55.9	54.8	54.3	54.0	52.3	50.7	49.8	50.1	50.1
35°	58.4	57.9	57.0	55.9	55.7	55.1	53.4	51.8	51.2	51.8	51.5
37.5°	60.1	59.3	58.4	57.0	57.6	56.8	55.4	53.7	53.7	54.5	54.3
40°	64.2	63.1	62.0	60.4	60.6	60.4	59.5	58.1	58.1	59.3	59.0
42.5°	72.8	71.2	69.2	67.0	67.0	66.5	65.3	64.8	65.1	65.9	65.9
45°	85.8	82.8	81.4	78.6	78.1	77.5	76.4	75.3	77.0	76.7	77.3
47.5°	104.4	100.2	98.6	95.0	94.4	94.1	92.5	91.4	91.9	92.5	93.9
50°	129.6	123.5	121.6	118.0	117.1	116.0	112.7	111.3	112.4	113.3	114.4
52.5°	162.5	152.0	151.5	148.1	143.4	145.4	140.9	138.7	139.6	139.3	140.7
55°	195.2	183.0	184.4	180.0	173.6	175.8	167.2	167.0	165.6	164.5	165.0
57.5°	217.9	206.0	211.6	206.0	198.0	200.2	188.8	187.5	186.9	183.6	182.5
60°	235.4	223.2	231.5	223.7	214.9	220.7	204.6	205.7	203.0	199.4	196.9
62.5°	250.9	238.4	248.4	239.5	229.8	235.9	217.9	221.5	216.0	212.9	208.5
65°	265.6	253.9	264.2	256.1	243.1	251.7	231.2	237.9	232.0	226.5	222.4
67.5°	279.7	268.3	280.2	272.2	258.1	266.4	241.5	251.4	245.3	239.2	234.3
70°	291.6	279.7	293.5	286.0	270.8	276.3	246.7	264.4	255.9	250.3	243.4
72.5°	302.7	288.8	306.0	299.1	283.0	287.7	254.5	274.7	261.1	255.9	250.9
75°	309.9	294.6	316.2	308.2	295.2	297.7	263.9	282.7	270.8	262.2	258.4
77.5°	316.5	299.9	322.6	313.2	301.3	302.7	270.0	288.3	275.0	265.3	260.3
79°	315.1	299.6	323.7	315.4	304.0	304.6	271.4	288.3	275.2	264.4	260.8
80°	311.8	297.1	320.9	311.5	300.2	301.0	270.0	286.0	276.1	261.4	258.1
82.5°	308.2	293.0	316.8	308.2	296.8	296.0	268.0	282.7	270.5	258.6	255.0
85°	298.8	285.5	307.9	299.3	289.9	288.5	262.0	275.5	265.0	250.0	247.0
87.5°	289.9	276.9	299.6	291.3	282.2	281.1	257.0	270.5	258.6	242.6	240.9
90°	280.2	266.9	288.3	279.9	269.7	267.8	245.9	259.5	249.8	234.3	232.6
92.5°	262.8	250.9	271.1	263.9	255.3	253.9	232.9	245.3	236.2	222.4	220.7
95°	247.0	235.6	253.6	247.6	239.5	239.2	218.5	231.8	222.9	210.4	209.6
97.5°	229.8	218.8	234.3	228.7	220.7	219.9	200.5	212.4	204.6	193.3	192.4
100°	202.7	193.3	203.5	199.4	190.0	192.4	175.3	188.0	181.9	172.0	170.0
102.5°	152.0	144.5	147.9	144.5	136.2	139.8	131.0	144.5	142.1	136.5	134.9
105°	86.1	83.9	86.1	85.0	82.0	81.1	76.7	85.8	83.9	82.0	80.9
107.5°	58.1	56.5	58.4	57.6	54.0	53.7	50.4	54.5	52.6	51.0	50.1



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	47.4	46.0	47.4	47.1	44.6	43.8	41.3	44.0	42.6	41.3	40.7
112.5°	42.4	41.3	42.4	42.1	39.6	39.3	37.4	39.6	38.5	37.4	37.1
115°	39.3	38.2	39.0	38.8	36.6	36.3	34.6	36.6	35.7	34.6	34.3
117.5°	37.1	36.0	36.6	36.0	34.3	33.8	32.4	34.1	33.5	32.1	31.8
120°	35.2	34.1	34.6	33.8	32.1	31.6	30.5	31.6	31.0	30.2	29.9
122.5°	33.5	32.4	32.7	31.6	29.9	29.1	28.2	28.8	28.5	27.7	27.4
125°	31.3	30.2	30.2	29.1	27.1	26.6	25.8	26.0	25.8	25.5	25.2
127.5°	28.8	28.0	27.4	26.3	24.6	23.5	23.0	23.3	23.3	23.0	22.7
130°	26.0	25.2	24.1	23.0	21.6	20.8	19.9	20.5	20.5	20.5	20.5
132.5°	22.7	21.9	20.8	19.7	18.3	17.7	16.9	17.4	17.7	18.0	17.7
135°	18.8	18.3	17.2	16.1	15.0	14.1	13.8	14.4	15.0	15.0	14.7
137.5°	14.7	14.1	13.6	12.7	11.6	11.1	10.8	11.4	11.9	11.9	11.6
140°	11.1	11.1	10.5	9.7	8.6	8.3	8.3	8.6	8.9	8.9	8.6
142.5°	8.6	8.6	8.0	7.5	6.6	6.4	6.4	6.6	6.9	6.9	6.6
145°	6.6	6.6	6.1	5.5	5.0	4.7	4.7	5.0	5.3	5.3	5.0
147.5°	5.0	4.7	4.2	3.9	3.3	3.3	3.3	3.3	3.6	3.6	3.6
150°	2.8	2.8	2.5	1.9	1.7	1.7	1.7	1.9	2.2	2.2	1.9
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)