

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: P314576

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314576
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-15)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPW-A2-D-U-SYM-7027
Description: WOODBRIDGE 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: 1910 lumens
Efficiency: N/A
Efficacy: 108.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type I - 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

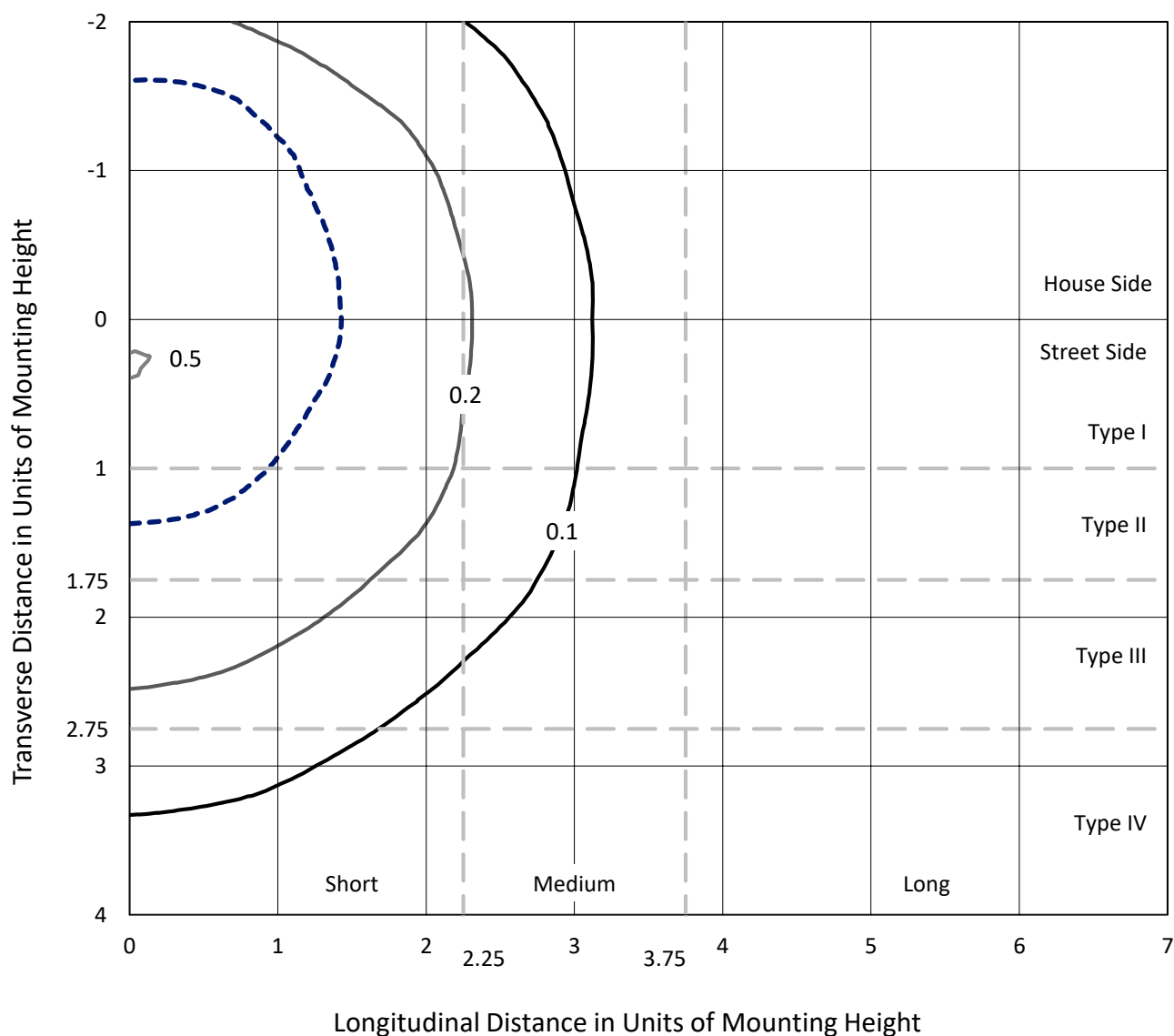


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

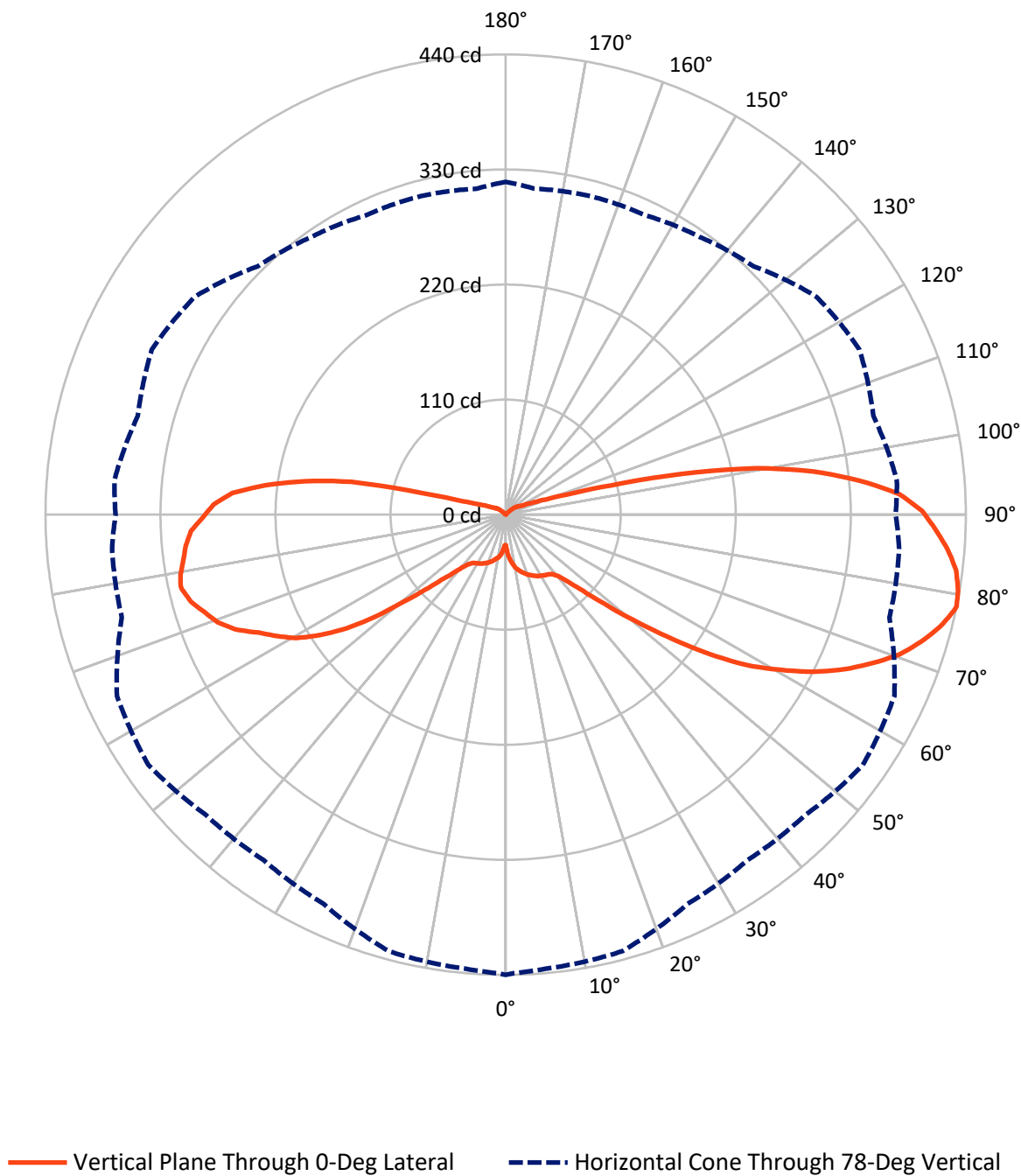


Based on 10 foot mounting height. Maximum calculated value = 0.5 fc
 Type I - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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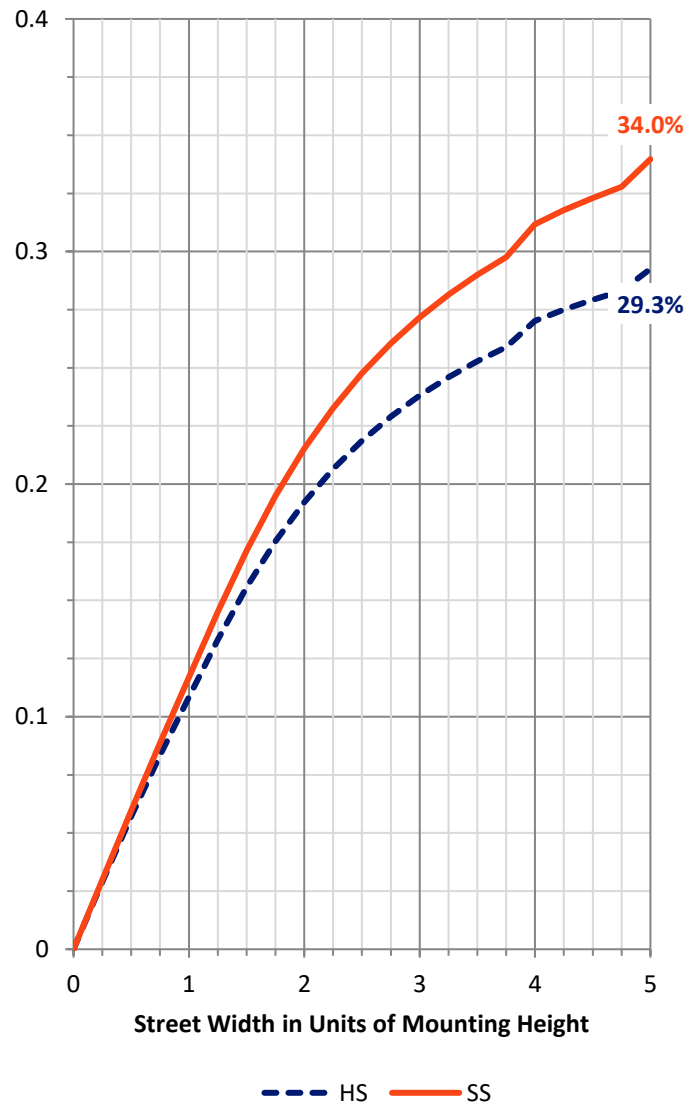
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	659.2	219.6	878.8
	% Fixture	34.5	11.5	46.0
Street Side	Lumens	778.1	253.1	1031.2
	% Fixture	40.7	13.2	54.0
Total	Lumens	1437.4	472.6	1910.0
	% Fixture	75.3	24.7	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.9	0.2
10°-20°	14.5	0.8
20°-30°	27.1	1.4
30°-40°	40.6	2.1
40°-50°	79.6	4.2
50°-60°	190.5	10.0
60°-70°	303.2	15.9
70°-80°	384.4	20.1
80°-90°	393.5	20.6
90°-100°	320.5	16.8
100°-110°	115.7	6.1
110°-120°	23.6	1.2
120°-130°	10.6	0.6
130°-140°	2.1	0.1
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°	1437.4	75.3
0°-180°	1910.0	100.0

Coefficient of Utilization



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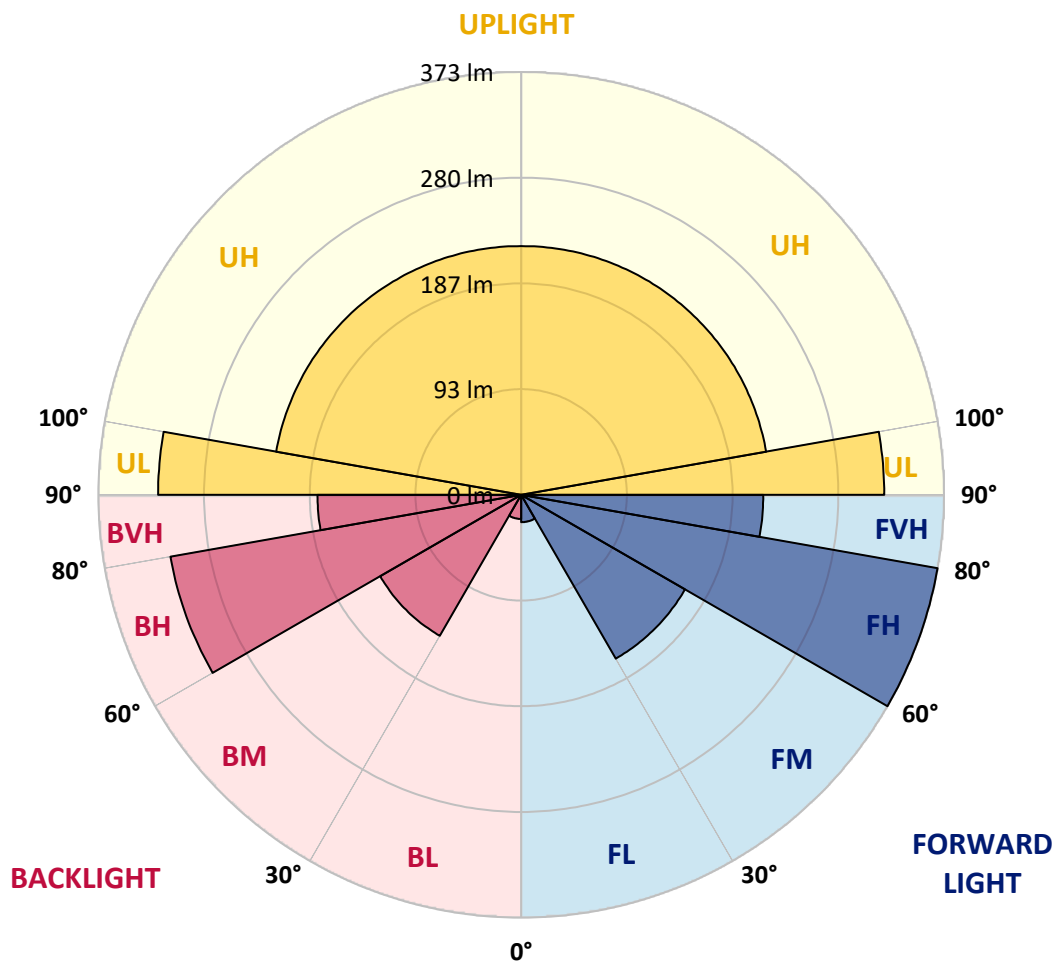
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	24.2	1.3			
FM	(30°-60°)	167.0	8.7			
FH	(60°-80°)	373.3	19.5			G0/660
FVH	(80°-90°)	213.7	11.2			G2/225
BL	(0°-30°)	21.3	1.1	B0/110		
BM	(30°-60°)	143.7	7.5	B0/220		
BH	(60°-80°)	314.4	16.5	B1/500		G1/500
BVH	(80°-90°)	179.8	9.4			G2/225
UL	(90°-100°)	320.5	16.8		U3/500	
UH	(100°-180°)	219.6	11.5		U3/500	

BUG Rating: B1-U3-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
2.5°	37.1	36.8	36.6	36.0	36.3	36.0	35.5	34.6	33.8	33.0	32.4
5°	42.9	42.7	42.7	42.7	42.7	42.7	42.4	41.5	40.4	39.3	37.9
7.5°	47.4	47.1	47.1	47.4	47.4	47.1	46.5	46.0	45.1	44.6	43.5
10°	51.5	51.2	51.2	51.2	51.0	50.4	49.9	49.0	47.9	47.4	46.5
12.5°	54.3	54.0	54.0	53.7	53.5	52.9	51.8	50.7	50.1	49.3	48.5
15°	56.8	56.5	56.5	55.9	55.7	55.1	54.0	53.2	52.3	51.8	51.2
17.5°	59.0	59.0	58.7	58.2	57.9	57.3	56.5	55.4	54.6	54.0	53.2
20°	61.2	60.9	60.9	60.4	59.8	59.3	58.4	57.6	57.1	56.2	55.4
22.5°	62.9	62.9	62.6	62.3	61.8	61.5	60.4	59.8	59.0	58.4	57.6
25°	64.8	64.8	64.8	64.3	63.7	63.4	62.3	61.8	61.2	60.4	59.3
27.5°	66.5	66.2	66.5	65.9	65.1	64.8	63.7	62.9	62.3	61.8	60.7
30°	67.6	67.6	67.3	67.0	66.2	65.6	64.8	64.0	63.4	62.6	61.8
32.5°	69.0	68.4	69.0	67.9	67.3	66.5	65.6	64.5	64.0	63.1	62.3
35°	70.1	69.8	69.8	69.5	68.4	67.9	66.7	65.9	65.1	64.3	63.4
37.5°	72.0	72.0	72.0	71.5	70.9	71.2	70.4	69.2	68.4	67.3	65.9
40°	77.0	77.0	77.0	77.0	76.7	77.6	77.3	77.0	76.7	75.1	72.8
42.5°	87.2	87.5	87.2	87.2	87.5	89.2	89.5	90.0	89.2	86.7	83.6
45°	103.9	104.4	103.9	104.7	105.2	107.5	107.2	107.7	106.6	104.4	99.4
47.5°	128.0	128.8	129.1	127.4	127.7	129.9	131.3	131.8	130.7	125.7	121.3
50°	158.1	159.0	159.0	157.6	156.2	159.0	160.9	162.0	162.6	154.3	149.3
52.5°	193.6	194.7	194.4	192.8	190.0	195.8	197.5	202.7	201.4	188.9	183.4
55°	233.8	234.9	234.6	231.3	226.8	229.3	234.3	240.4	238.7	223.5	219.6
57.5°	271.2	271.7	271.7	267.6	262.3	260.6	264.0	271.2	268.4	250.7	247.3
60°	301.1	301.6	301.9	295.5	289.2	285.6	288.3	296.4	293.6	273.1	269.8
62.5°	330.7	328.5	326.3	321.0	312.1	308.0	308.5	319.1	313.5	291.1	288.6
65°	356.2	355.4	350.1	344.5	334.9	330.1	330.1	341.2	335.7	311.9	308.5
67.5°	378.6	378.6	372.5	367.3	354.2	348.7	347.6	360.9	354.0	329.6	325.4
70°	399.7	399.1	392.2	388.6	372.5	364.5	365.9	379.4	373.4	347.6	344.5
72.5°	415.2	415.2	410.2	406.9	387.2	379.7	380.3	394.7	387.8	360.6	356.5
75°	428.7	427.6	424.9	421.8	401.3	392.7	394.1	408.3	401.1	373.6	372.0
77.5°	438.4	437.6	435.1	431.8	409.4	401.6	403.8	416.6	410.2	378.9	376.7
78°	439.8	438.4	435.7	431.8	410.7	403.0	405.5	416.8	409.9	379.7	377.5
80°	438.4	437.3	434.3	430.1	411.6	402.4	403.8	413.8	406.6	378.3	375.3
82.5°	433.7	432.9	430.1	425.1	406.6	398.8	400.2	409.6	403.3	373.9	375.3
85°	423.8	421.8	419.6	414.6	398.6	389.7	390.8	399.9	392.7	363.9	363.1
87.5°	411.3	409.9	408.3	403.3	388.3	380.6	380.8	390.0	383.0	356.2	356.2
90°	398.0	396.3	395.0	390.2	375.6	368.1	368.4	378.6	373.1	348.4	349.8
92.5°	376.7	375.3	373.9	368.6	355.4	348.2	349.3	359.2	353.7	329.6	331.3
95°	339.8	338.7	339.0	335.1	323.2	316.6	316.9	326.8	321.6	300.5	304.9
97.5°	296.6	296.1	294.4	293.0	282.5	278.4	277.2	288.0	285.6	267.3	272.0
100°	243.2	242.1	240.1	239.6	232.9	231.3	232.1	242.3	241.0	225.2	229.9
102.5°	172.3	172.0	173.7	170.6	167.8	168.4	171.7	180.3	178.9	165.4	168.4
105°	104.7	105.0	103.6	102.8	100.5	100.3	100.8	103.3	100.3	91.1	91.7
107.5°	62.3	62.6	62.9	60.9	59.3	58.7	58.4	59.3	57.6	54.0	54.0



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CANDELA DISTRIBUTION (continued):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
110°	42.4	42.4	42.7	41.5	40.2	40.2	39.9	40.7	40.2	38.2	38.2
112.5°	31.0	31.3	31.0	30.5	29.6	29.9	29.9	30.5	30.5	29.4	29.4
115°	24.1	24.1	24.1	23.5	23.0	23.0	23.3	23.8	24.1	23.5	23.5
117.5°	19.1	19.1	19.1	18.8	18.3	18.3	18.6	18.8	19.4	19.1	19.1
120°	16.1	16.1	16.1	15.8	15.5	15.5	15.8	16.1	16.3	16.1	16.1
122.5°	14.4	14.4	14.4	14.1	13.8	13.8	13.8	14.1	14.4	14.4	14.4
125°	13.0	13.0	13.0	13.0	12.5	12.2	12.5	12.7	13.0	13.3	13.3
127.5°	10.8	10.8	11.1	10.8	10.5	10.5	10.8	10.8	11.4	11.6	11.6
130°	8.0	8.0	8.3	8.3	8.0	7.8	8.0	8.3	8.9	9.1	8.9
132.5°	5.0	5.3	5.3	5.3	5.0	5.0	5.3	5.5	6.1	6.4	6.1
135°	0.6	0.6	0.8	0.6	0.8	0.8	0.8	1.1	1.7	1.9	1.9
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.3	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.3	0.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.3	0.3	0.3	0.0	0.3	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1	29.1
2.5°	32.1	32.4	31.9	31.6	31.3	31.0	30.7	30.2	29.9	29.9	29.6
5°	37.7	37.4	36.8	36.0	35.7	35.5	35.2	34.9	34.9	34.9	34.9
7.5°	42.9	42.4	41.0	40.2	39.9	40.2	39.6	39.3	39.1	38.8	38.8
10°	46.0	45.4	44.6	43.8	43.2	43.2	42.9	42.4	41.8	41.5	41.5
12.5°	47.9	47.4	46.8	46.0	45.4	45.1	44.9	44.0	43.2	43.2	42.9
15°	50.7	50.1	49.3	48.5	47.9	47.4	47.1	46.0	45.1	44.9	44.9
17.5°	52.9	52.3	51.8	51.0	50.1	49.3	48.7	47.9	47.1	46.8	46.8
20°	55.1	54.6	53.7	53.2	52.1	51.2	50.7	49.9	49.0	48.7	48.5
22.5°	57.3	56.8	55.9	55.4	54.3	53.2	52.3	51.5	50.4	50.1	49.9
25°	59.0	58.4	57.9	57.1	55.9	54.8	53.7	52.6	52.1	51.5	51.2
27.5°	60.4	60.1	59.5	58.7	57.3	56.2	55.1	54.0	53.2	52.6	52.6
30°	61.5	61.2	60.7	59.8	58.7	57.6	56.5	55.4	54.3	53.7	53.5
32.5°	62.3	61.8	61.5	60.7	59.8	58.7	57.6	56.5	55.4	54.8	54.6
35°	63.1	62.9	62.3	61.8	60.7	59.8	58.7	57.9	56.8	56.5	56.2
37.5°	65.6	65.4	64.8	63.7	62.9	62.0	61.2	60.4	59.8	59.5	59.3
40°	72.8	71.7	70.6	69.5	67.9	66.7	65.9	65.6	65.4	65.4	65.6
42.5°	82.5	82.0	81.2	79.2	77.0	75.3	74.5	74.8	74.5	74.5	75.1
45°	98.0	96.9	95.8	94.2	90.3	87.5	86.7	86.1	86.7	86.4	87.0
47.5°	118.3	119.1	115.2	113.3	109.1	105.0	104.4	102.8	103.9	104.4	105.2
50°	146.2	147.1	143.5	139.6	134.9	128.0	126.9	124.9	125.7	128.2	128.0
52.5°	181.7	182.0	178.4	174.5	168.7	159.0	157.6	155.4	154.5	158.1	158.4
55°	218.5	219.9	214.4	211.6	205.8	192.2	187.8	184.2	184.5	188.3	187.5
57.5°	247.3	247.9	242.9	241.5	235.1	218.5	213.5	206.1	208.6	211.3	211.3
60°	269.2	269.8	263.7	264.5	259.5	238.2	233.8	225.5	227.4	229.3	232.4
62.5°	288.0	290.0	281.7	283.3	278.9	255.4	249.0	242.6	244.8	245.1	247.1
65°	307.7	308.0	299.4	301.6	295.8	272.8	262.8	256.8	259.8	259.2	261.7
67.5°	324.6	325.2	316.0	321.0	314.1	289.7	280.0	273.1	275.6	273.6	280.6
70°	342.1	343.7	330.7	335.4	329.6	303.6	292.8	286.1	286.9	284.7	293.6
72.5°	352.9	356.5	345.9	351.8	343.4	316.3	306.3	300.5	298.6	296.1	302.2
75°	365.3	368.9	354.8	363.1	355.9	328.5	318.0	312.7	308.5	307.2	311.9
77.5°	372.2	376.1	365.9	372.0	362.6	334.6	322.7	314.6	313.5	312.1	317.4
78°	372.8	375.3	363.9	373.1	362.8	335.4	323.8	315.7	314.9	312.7	318.0
80°	370.9	373.1	362.6	370.9	361.2	333.7	322.7	312.1	312.7	309.7	316.0
82.5°	369.8	372.2	361.7	367.3	360.3	331.5	322.4	309.9	309.9	304.9	311.0
85°	357.8	360.9	352.3	359.0	351.8	324.3	316.6	303.3	303.3	299.4	306.9
87.5°	351.5	354.5	344.0	353.1	344.3	316.0	309.9	298.8	298.0	293.9	301.1
90°	343.7	347.3	336.5	340.9	334.0	307.2	300.5	288.0	286.9	282.5	289.2
92.5°	325.2	328.5	318.2	324.9	318.5	294.4	287.8	277.8	275.9	272.8	279.2
95°	300.0	303.8	295.8	302.7	296.1	274.5	269.5	262.0	260.1	258.1	262.0
97.5°	267.3	268.9	263.1	269.5	263.7	244.8	240.7	233.2	229.9	229.3	230.7
100°	225.7	226.8	220.2	225.2	221.0	204.1	201.9	198.3	193.9	193.3	193.9
102.5°	167.6	162.9	157.6	155.7	155.1	142.4	143.7	145.7	143.7	146.0	150.7
105°	90.8	88.1	86.1	84.5	85.6	78.4	79.8	80.0	78.4	79.5	81.2
107.5°	53.5	52.6	51.8	51.0	49.3	46.8	46.3	44.3	44.3	44.3	44.9



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	37.9	37.7	36.8	36.6	35.2	33.5	33.2	32.4	31.9	31.9	32.4
112.5°	29.1	28.8	28.3	28.0	27.4	25.5	25.2	24.9	24.9	24.9	25.2
115°	23.3	23.0	22.7	22.2	21.3	19.9	20.2	19.7	19.7	19.9	19.9
117.5°	18.8	18.6	18.6	18.0	17.2	16.3	16.3	16.1	16.1	16.1	16.3
120°	16.1	15.8	15.5	15.2	14.4	13.6	13.6	13.3	13.6	13.6	13.6
122.5°	14.4	14.1	13.8	13.6	12.7	11.9	11.9	11.6	11.9	11.9	11.9
125°	13.0	12.7	12.5	11.9	11.1	10.5	10.5	10.5	10.5	10.5	10.5
127.5°	11.4	11.1	10.5	10.0	9.4	8.9	8.9	8.9	9.1	9.1	9.1
130°	8.9	8.3	8.0	7.5	6.9	6.4	6.6	6.9	7.2	7.2	7.2
132.5°	6.1	5.8	5.3	4.7	4.2	4.2	4.2	4.7	5.0	5.0	5.0
135°	1.7	1.7	1.7	1.4	1.4	1.4	1.7	2.2	2.2	2.5	2.5
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)