

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: P314565

Luminaire Tested: **MPN-A3-D-U-ASYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314565
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-14)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPN-A3-D-U-ASYM-7030
Description: NEW HAVEN POST TOP LUMINAIRE
(1) 70 CRI, 3000K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2835 lumens
Efficiency: N/A
Efficacy: 98.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U3 - G3

Input Watts (W): 28.8
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

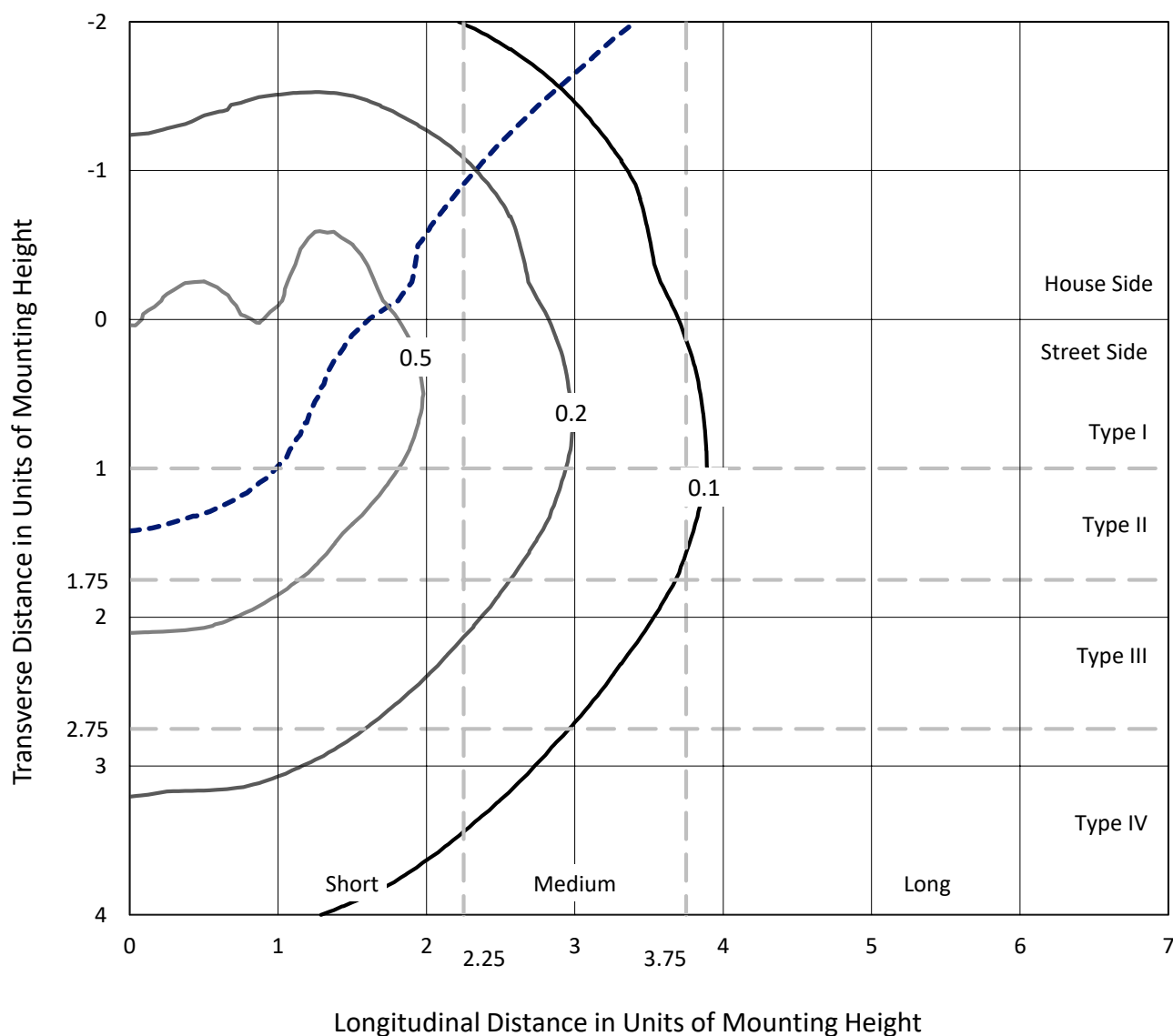


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

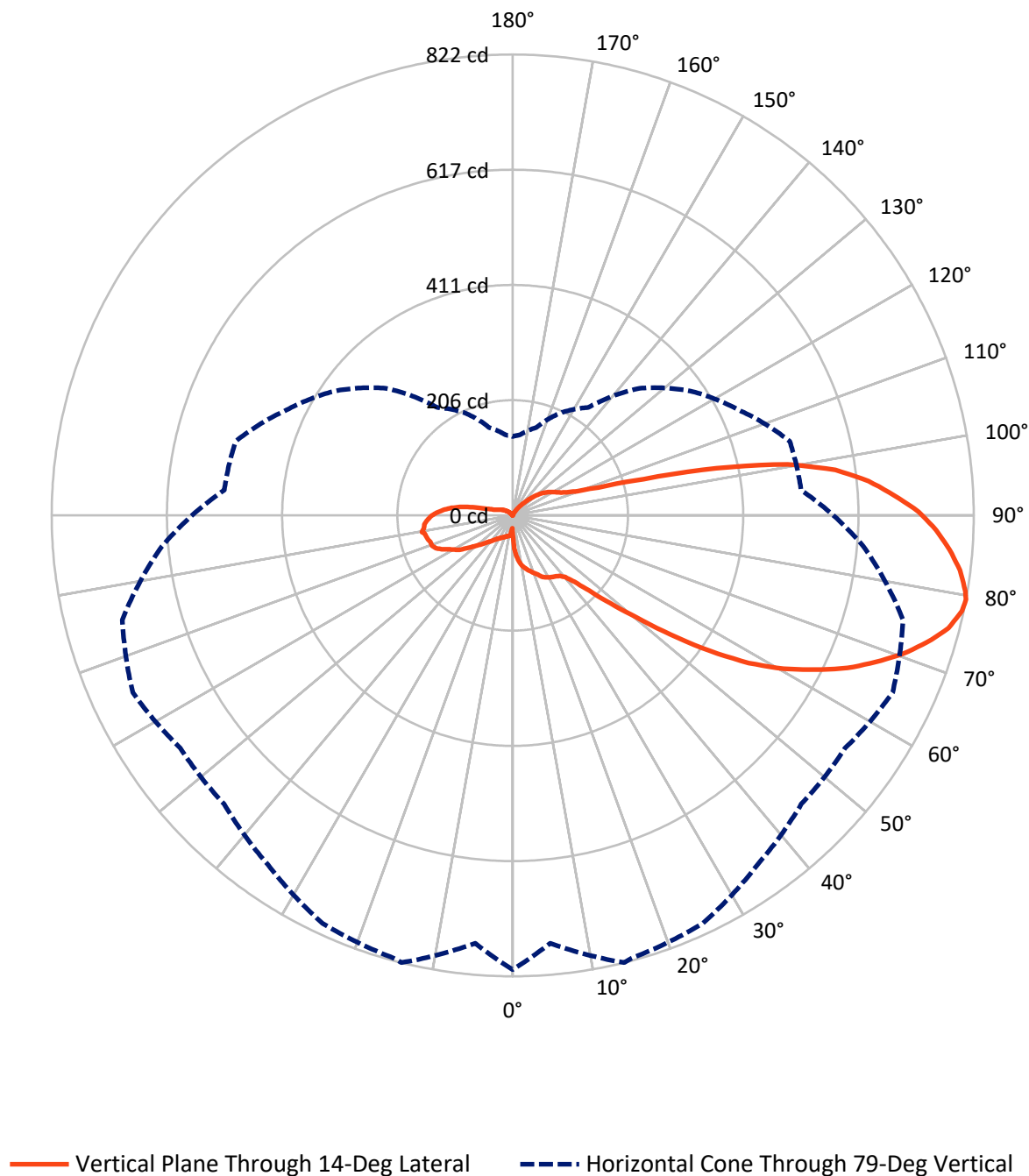


Based on 10 foot mounting height. Maximum calculated value = 0.9 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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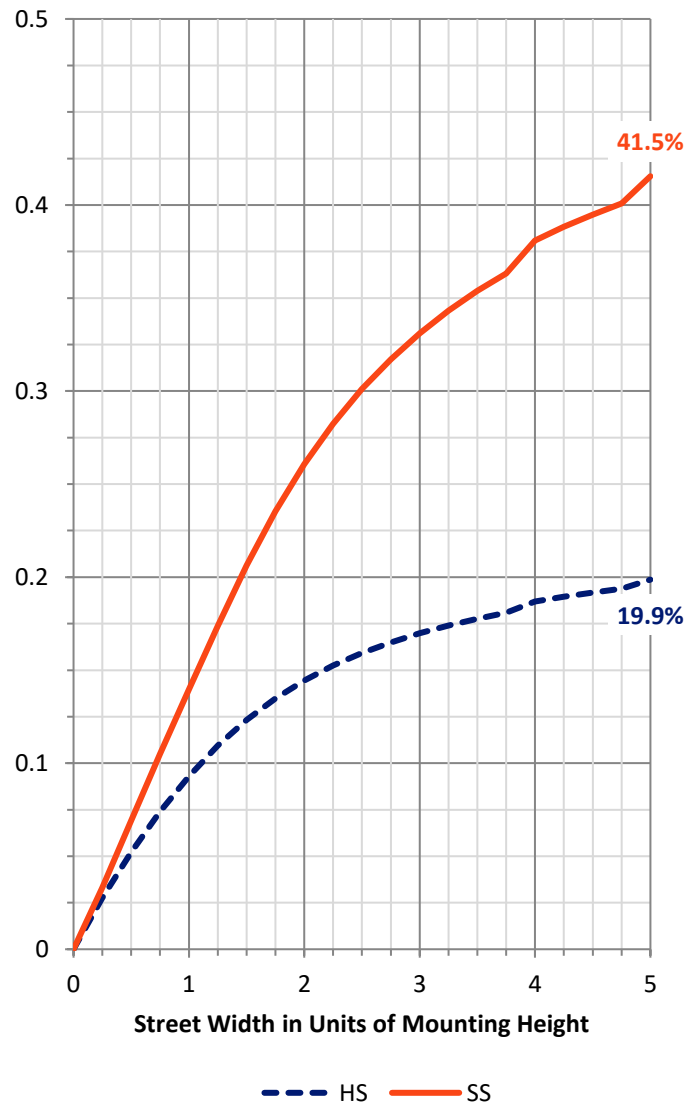
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	641.3	237.4	878.8
	% Fixture	22.6	8.4	31.0
Street Side	Lumens	1412.5	543.8	1956.2
	% Fixture	49.8	19.2	69.0
Total	Lumens	2053.8	781.2	2835.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	5.3	0.2
10°-20°	20.3	0.7
20°-30°	39.7	1.4
30°-40°	60.5	2.1
40°-50°	113.7	4.0
50°-60°	273.4	9.6
60°-70°	437.8	15.4
70°-80°	549.7	19.4
80°-90°	553.2	19.5
90°-100°	451.6	15.9
100°-110°	191.1	6.7
110°-120°	66.1	2.3
120°-130°	44.1	1.6
130°-140°	21.8	0.8
140°-150°	6.3	0.2
150°-160°	0.3	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2053.8	72.4
0°-180°	2835.0	100.0

Coefficient of Utilization



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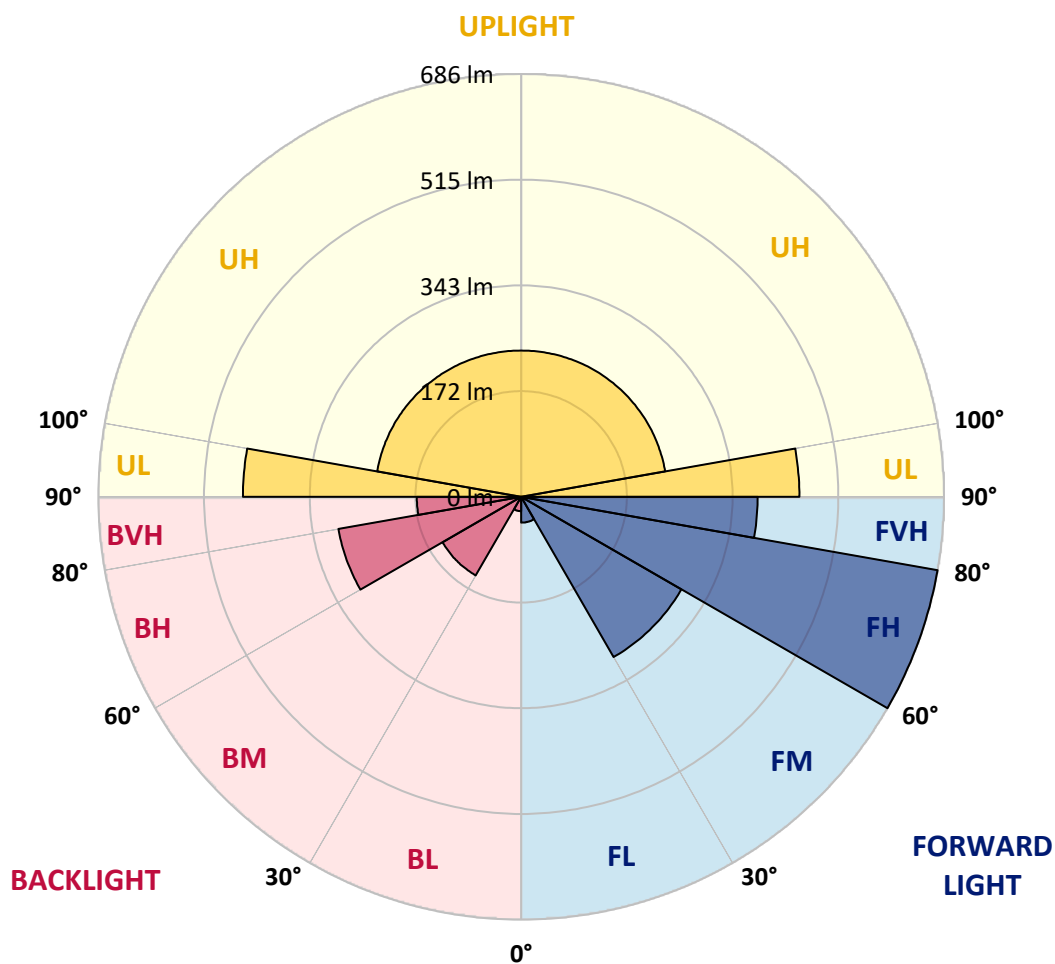
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	42.0	1.5			
FM	(30°-60°)	300.3	10.6			
FH	(60°-80°)	686.3	24.2			G1/1800
FVH	(80°-90°)	383.9	13.5			G3/500
BL	(0°-30°)	23.3	0.8	B0/110		
BM	(30°-60°)	147.4	5.2	B0/220		
BH	(60°-80°)	301.2	10.6	B1/500		G1/500
BVH	(80°-90°)	169.4	6.0			G2/225
UL	(90°-100°)	451.6	15.9		U3/500	
UH	(100°-180°)	237.4	8.4		U3/500	

BUG Rating: B1-U3-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
2.5°	61.8	59.9	59.9	59.9	58.5	56.1	53.8	52.3	49.0	46.1	41.9
5°	75.2	74.2	73.3	73.3	71.8	71.4	69.0	65.2	61.4	57.6	52.8
7.5°	85.2	84.2	83.3	83.7	81.8	79.9	77.5	74.2	70.4	66.6	61.8
10°	91.8	91.3	90.9	90.9	88.5	86.1	83.3	80.4	76.1	71.8	66.6
12.5°	96.6	96.1	96.1	96.1	93.7	90.4	88.0	84.7	80.9	76.1	70.9
15°	101.3	101.3	100.9	100.4	98.0	95.1	92.8	89.9	86.1	80.9	75.6
17.5°	106.1	105.6	105.1	105.1	102.8	99.9	97.5	95.1	90.4	85.2	79.9
20°	111.8	110.8	109.9	109.9	107.5	104.2	102.3	99.9	95.1	89.9	84.2
22.5°	117.5	116.6	114.7	114.7	112.7	108.9	108.0	105.1	100.4	94.7	89.0
25°	123.7	123.2	121.3	120.8	118.5	113.7	112.7	110.4	105.1	99.4	93.7
27.5°	128.4	128.0	125.1	125.1	123.2	118.9	116.6	113.7	108.5	102.3	97.5
30°	131.8	131.3	128.4	128.0	125.6	122.7	119.9	115.6	110.4	104.2	99.9
32.5°	133.2	133.2	130.8	130.4	127.5	125.1	122.3	118.0	111.3	105.6	100.9
35°	136.1	135.6	133.2	132.7	129.4	127.5	123.7	118.5	112.3	106.6	101.8
37.5°	138.9	138.9	137.0	136.5	132.7	130.8	127.0	122.3	115.6	109.9	104.7
40°	145.6	146.1	144.6	144.1	140.3	139.4	136.1	132.7	128.0	122.3	113.2
42.5°	160.8	161.3	161.8	160.8	157.9	156.5	153.7	153.2	148.9	141.8	133.2
45°	187.0	189.8	191.2	189.8	186.0	185.5	183.2	184.1	180.8	173.6	162.7
47.5°	226.9	228.8	234.1	234.1	228.8	227.4	225.5	226.0	226.0	217.9	201.2
50°	277.4	281.2	285.0	287.8	285.4	281.6	279.3	284.0	287.8	276.4	254.0
52.5°	338.7	342.5	353.9	353.0	350.1	348.2	349.7	358.7	367.3	357.3	321.6
55°	410.6	415.8	426.3	428.6	422.9	420.6	419.1	432.4	446.7	436.3	388.2
57.5°	482.4	487.6	496.7	500.5	492.9	485.3	471.5	486.2	503.8	490.5	432.4
60°	542.3	545.2	555.2	559.5	551.4	540.4	515.2	530.0	549.5	535.2	470.0
62.5°	596.6	597.5	605.6	609.4	599.9	588.5	558.5	571.4	587.5	573.7	502.9
65°	639.4	638.9	656.0	657.5	642.7	627.0	598.5	610.4	623.2	608.5	530.0
67.5°	682.7	677.5	697.9	699.3	684.6	664.1	635.1	641.3	649.4	638.4	559.9
70°	718.4	711.7	738.8	741.2	719.3	692.2	668.9	672.7	684.6	667.5	584.7
72.5°	755.5	739.3	773.1	774.5	754.5	718.8	695.5	694.6	708.4	689.3	603.2
75°	785.4	754.0	802.6	800.7	782.1	742.2	716.5	714.6	732.6	709.8	617.0
77.5°	813.0	767.8	819.2	817.3	800.2	756.4	727.9	726.0	745.5	721.2	629.4
79°	810.2	765.9	822.1	817.8	802.6	760.7	727.9	723.6	747.4	720.7	627.5
80°	810.7	760.2	818.3	814.5	797.8	756.4	720.3	713.6	735.0	708.8	618.5
82.5°	791.6	746.9	803.5	797.8	785.0	746.9	710.8	705.5	734.1	705.0	614.7
85°	771.6	726.5	781.6	777.8	765.9	728.4	691.2	678.4	703.6	675.1	593.2
87.5°	740.2	700.8	755.5	752.6	741.2	707.9	668.9	659.8	686.5	660.8	578.5
90°	713.1	674.1	724.1	721.2	710.8	678.4	642.7	641.3	668.4	642.7	559.9
92.5°	671.7	635.1	681.3	677.9	670.3	642.7	609.9	605.6	628.0	599.4	524.3
95°	630.4	595.1	637.5	636.1	626.1	602.3	570.9	562.8	585.2	564.2	493.8
97.5°	575.6	542.3	581.4	580.9	573.7	551.4	524.7	521.4	544.7	523.3	460.0
100°	491.0	461.9	499.0	494.8	495.7	477.6	455.8	462.4	485.7	470.5	413.4
102.5°	364.9	350.6	373.0	374.9	376.3	363.9	355.9	354.9	377.3	363.5	317.8
105°	237.9	231.2	242.6	244.5	241.7	232.6	210.8	212.7	215.0	203.6	177.0
107.5°	158.9	156.0	160.8	161.8	159.4	151.8	138.9	137.5	138.4	132.3	116.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	121.8	120.4	123.2	123.7	121.8	114.7	107.5	107.0	108.0	103.7	92.8
112.5°	104.2	103.2	104.7	104.7	103.2	98.0	93.7	93.7	95.1	91.8	82.8
115°	95.1	94.2	94.7	95.1	93.2	88.5	85.2	86.1	87.5	84.7	76.6
117.5°	88.5	88.0	88.0	88.0	86.6	82.3	80.4	80.9	82.3	79.4	72.3
120°	82.8	82.8	82.3	82.3	80.9	77.5	76.1	77.1	78.0	75.6	69.0
122.5°	77.1	77.1	76.6	76.6	75.6	72.8	71.8	73.3	74.2	71.4	65.7
125°	70.9	70.9	69.9	69.9	69.0	67.6	67.1	68.5	69.5	67.1	61.4
127.5°	64.2	64.2	62.8	63.3	61.8	61.4	61.4	63.3	64.2	62.3	57.1
130°	57.1	56.6	54.7	55.2	54.2	54.2	55.2	56.6	57.6	55.7	51.4
132.5°	48.5	48.5	46.1	46.6	46.1	46.6	47.6	49.0	49.5	48.5	44.7
135°	40.0	40.0	38.1	38.5	38.1	38.1	39.5	40.4	41.4	40.4	37.1
137.5°	31.9	31.9	30.0	30.4	30.0	29.5	30.4	30.9	31.4	30.4	29.0
140°	24.7	24.7	23.8	23.8	22.8	22.4	22.8	23.3	23.3	22.8	21.9
142.5°	19.5	20.0	19.0	19.0	17.6	17.6	17.6	18.1	18.1	18.1	17.1
145°	14.7	15.2	14.3	14.3	13.3	13.3	13.3	13.8	13.8	13.8	12.8
147.5°	10.5	10.5	10.0	10.0	9.0	9.5	9.5	10.0	10.0	9.5	9.0
150°	5.2	5.2	5.2	5.2	5.2	5.2	5.7	5.7	5.7	5.7	5.2
152.5°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	1.0
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	0.5	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.5	0.5	0.5	0.0	0.0
165°	0.0	0.0	0.0	0.5	0.0	0.5	0.5	0.5	0.5	0.0	0.0
167.5°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
170°	0.0	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
172.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
175°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
177.5°	0.5	0.0	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.0
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2	36.2
2.5°	40.4	38.5	35.7	32.8	29.5	27.1	24.7	23.8	22.8	21.9	21.9
5°	50.0	47.6	43.8	39.5	37.1	33.8	31.9	30.0	29.0	29.0	29.0
7.5°	59.9	57.6	52.3	46.6	43.8	40.0	38.5	36.6	35.2	33.8	33.3
10°	64.2	61.8	57.1	52.3	48.5	44.7	41.4	39.5	37.1	35.7	35.7
12.5°	68.5	65.7	60.9	56.1	51.4	46.6	43.3	40.4	38.1	36.2	35.7
15°	72.8	69.9	64.7	59.5	53.8	48.5	44.7	41.4	38.5	36.6	36.2
17.5°	77.1	74.2	68.5	62.8	56.6	50.9	46.6	42.3	39.5	37.6	37.1
20°	81.4	78.0	72.3	66.1	59.5	53.8	48.0	43.8	40.9	39.0	38.5
22.5°	86.1	82.3	76.1	69.5	62.3	56.6	50.0	45.2	41.9	40.4	40.4
25°	90.9	86.1	79.9	72.3	65.7	59.5	51.9	46.6	43.3	42.3	42.8
27.5°	94.2	89.0	82.8	75.2	68.0	61.8	54.2	48.0	44.7	44.7	44.7
30°	96.1	91.8	85.2	77.5	70.9	64.2	56.1	50.0	46.6	46.6	46.6
32.5°	97.1	92.8	86.1	79.0	72.8	66.6	58.0	51.9	48.5	49.0	49.0
35°	98.0	94.2	87.5	80.4	74.7	68.0	60.4	54.2	51.4	51.9	51.4
37.5°	100.4	96.1	89.4	82.3	77.1	70.4	63.3	57.1	54.7	55.2	54.7
40°	108.0	102.8	95.6	87.1	81.8	74.2	67.1	60.4	59.0	59.0	58.5
42.5°	123.7	116.6	108.0	97.5	89.9	80.4	72.3	65.2	63.3	62.8	62.3
45°	150.3	138.9	129.9	114.7	102.8	90.4	79.9	70.9	68.5	67.6	67.1
47.5°	184.6	171.3	159.4	142.7	124.2	105.1	91.3	79.0	75.2	73.3	72.3
50°	234.5	212.2	196.5	176.0	152.2	125.6	105.6	89.4	82.8	78.5	77.5
52.5°	294.5	265.0	248.3	219.3	186.5	150.8	123.7	100.4	90.9	85.2	84.7
55°	356.3	319.2	299.7	266.9	222.6	180.8	144.6	114.2	100.9	93.2	92.3
57.5°	397.7	357.3	338.2	303.5	253.1	208.4	164.1	127.0	114.2	102.3	101.3
60°	429.1	385.8	368.2	326.4	274.0	229.8	177.9	139.4	121.3	109.9	108.0
62.5°	456.2	409.6	395.8	345.9	293.1	245.0	189.3	150.3	129.4	119.4	116.1
65°	483.3	435.8	419.1	367.7	308.3	260.2	200.3	163.2	141.8	127.5	127.5
67.5°	509.0	460.5	442.9	388.7	327.3	275.0	207.9	173.6	150.3	136.1	136.1
70°	532.4	478.6	464.8	407.7	345.9	286.9	207.4	183.6	155.1	142.2	136.5
72.5°	551.9	495.2	481.9	424.4	360.6	299.7	212.7	193.6	155.1	144.1	140.8
75°	562.3	507.1	498.6	434.3	376.8	310.2	221.2	194.6	158.9	143.7	141.3
77.5°	574.7	517.6	509.0	442.9	383.9	318.3	230.3	201.2	160.8	144.6	140.3
79°	571.8	516.2	511.4	444.8	386.8	320.6	235.0	201.7	162.2	144.1	140.8
80°	565.2	512.4	504.8	437.2	383.4	316.8	235.0	201.7	167.0	143.2	139.4
82.5°	559.5	507.6	501.0	434.8	377.7	310.2	235.5	201.2	161.8	140.3	137.0
85°	542.3	493.8	483.8	421.0	369.2	302.6	232.2	198.9	160.8	133.7	131.8
87.5°	525.7	478.6	471.5	409.1	357.3	293.1	227.9	193.1	154.6	128.9	127.5
90°	509.0	462.4	453.9	394.9	342.5	277.8	216.5	185.1	148.4	120.4	120.8
92.5°	477.2	435.3	426.3	371.6	321.1	261.2	203.1	172.7	138.4	114.2	111.8
95°	448.1	408.7	399.6	349.7	300.2	244.5	186.5	159.4	126.5	104.7	103.2
97.5°	419.1	380.1	370.6	324.5	275.9	224.1	167.9	143.2	111.8	93.2	90.4
100°	373.9	338.7	326.4	283.1	234.5	192.2	140.3	119.9	93.2	77.5	74.2
102.5°	283.1	254.5	241.7	211.2	166.5	137.5	101.8	88.5	68.5	58.5	56.6
105°	157.9	143.7	138.0	120.4	100.4	83.3	63.7	59.0	47.1	41.9	41.4
107.5°	105.6	97.1	92.8	84.2	70.4	59.0	46.1	43.3	35.7	31.9	31.4



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	85.6	79.4	75.6	68.5	58.0	48.5	38.5	36.2	30.0	27.1	26.6
112.5°	77.1	70.9	67.6	60.9	51.4	42.8	34.3	31.9	26.6	24.3	23.8
115°	71.4	66.1	62.3	56.1	47.1	39.0	31.4	29.0	24.7	21.9	21.4
117.5°	67.6	62.3	58.5	52.3	44.2	36.2	29.5	26.6	22.4	19.5	19.5
120°	64.2	59.5	55.7	49.5	41.4	33.8	27.1	23.8	20.0	17.1	17.1
122.5°	61.4	56.6	52.8	46.1	38.1	30.4	24.7	20.9	17.6	14.7	14.7
125°	58.0	53.8	49.5	42.8	34.7	27.6	21.9	18.1	14.7	12.4	12.4
127.5°	53.8	50.0	45.2	38.5	31.4	24.3	19.5	15.7	12.4	10.5	10.5
130°	49.0	44.7	40.0	33.8	27.1	20.9	16.2	13.3	10.5	9.0	8.6
132.5°	42.3	39.0	34.3	29.0	22.8	17.6	13.3	10.9	8.6	7.1	7.1
135°	35.7	32.4	28.5	23.3	18.6	13.8	10.5	8.6	7.1	5.7	5.7
137.5°	27.6	25.2	22.4	18.1	13.8	10.5	8.1	6.7	5.2	4.3	4.3
140°	20.9	19.5	17.1	13.3	10.5	8.1	6.2	5.2	4.3	3.3	2.9
142.5°	16.2	15.2	13.3	10.5	8.1	6.2	4.8	3.8	2.9	2.4	1.9
145°	12.4	11.4	10.0	7.6	5.7	4.3	3.3	2.4	1.9	1.4	1.0
147.5°	9.0	8.1	6.7	5.2	3.8	2.4	1.9	1.4	1.0	0.5	0.5
150°	4.8	4.3	3.8	2.9	1.9	1.0	0.5	0.5	0.0	0.0	0.0
152.5°	1.0	1.0	1.0	1.0	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	0.5	0.5	0.5	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	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.5	0.5	0.5	0.5	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5

(END OF REPORT)