

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: P314548

Luminaire Tested: **MPN-A4-D-U-SYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314548
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-A4-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: 3767 lumens
Efficiency: N/A
Efficacy: 96.3 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type V - Short - Non-Cutoff
BUG Rating: B2 - U4 - G3

Input Watts (W): 39.1
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

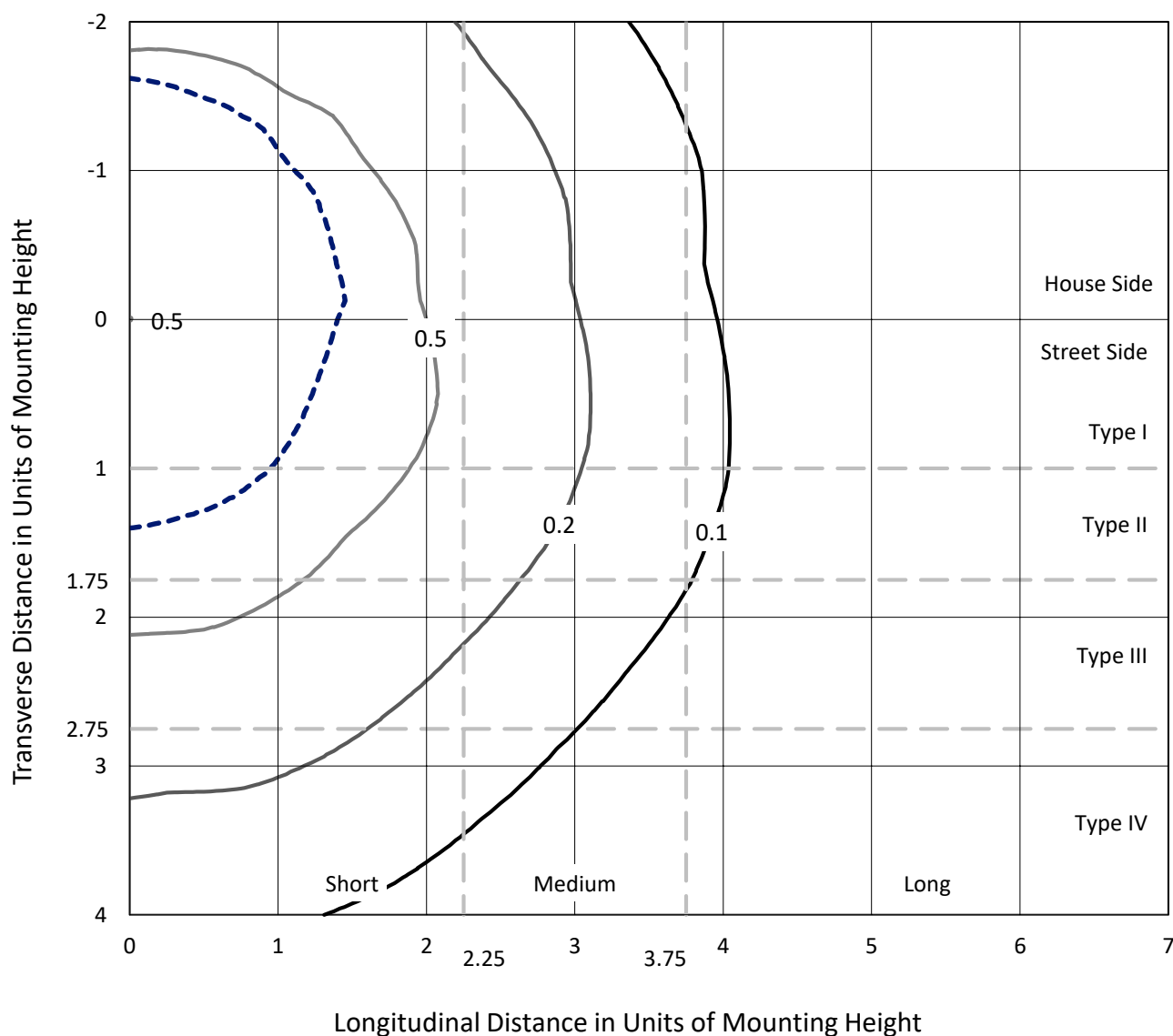


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

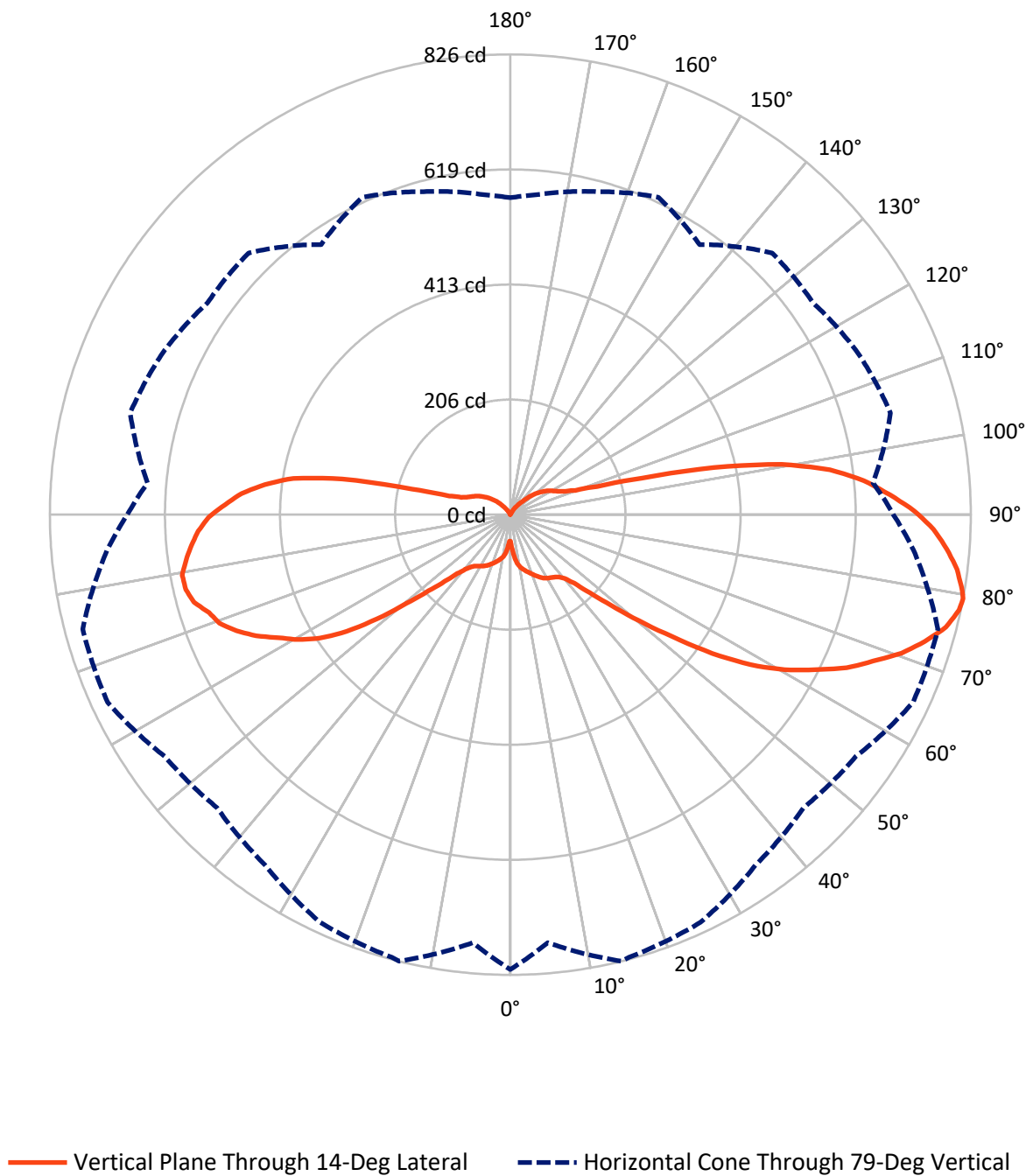


Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type V - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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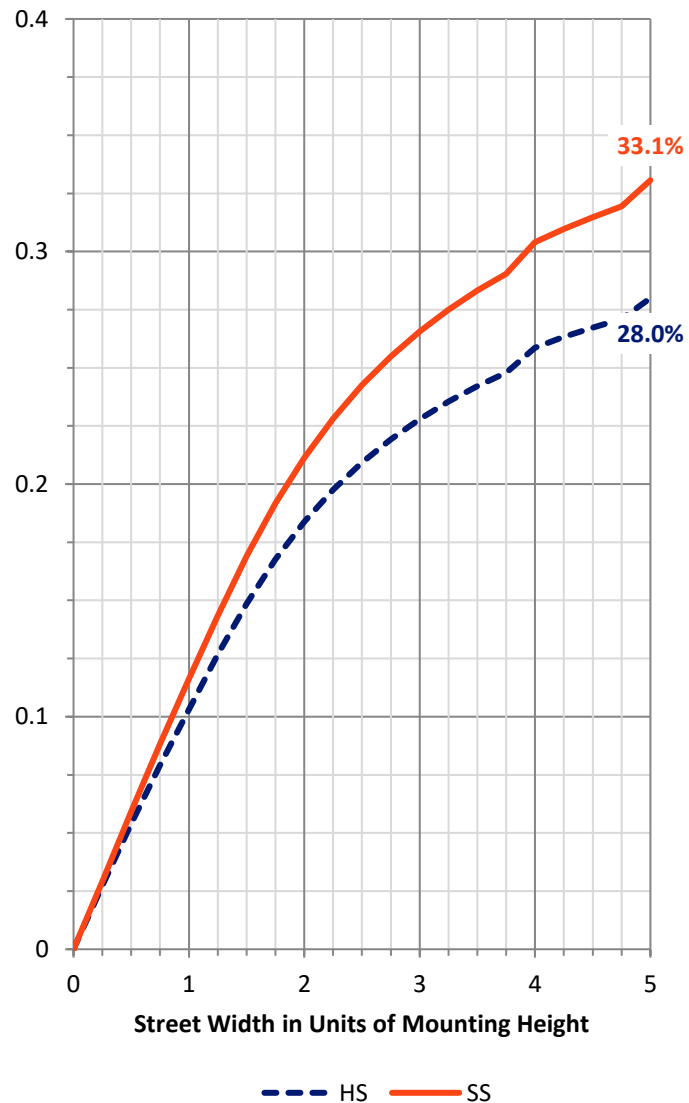
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1241.5	473.2	1714.6
	% Fixture	33.0	12.6	45.5
Street Side	Lumens	1485.1	567.2	2052.4
	% Fixture	39.4	15.1	54.5
Total	Lumens	2726.6	1040.4	3767.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.2
10°-20°	27.0	0.7
20°-30°	52.6	1.4
30°-40°	80.2	2.1
40°-50°	151.3	4.0
50°-60°	365.0	9.7
60°-70°	581.1	15.4
70°-80°	728.8	19.3
80°-90°	733.6	19.5
90°-100°	601.5	16.0
100°-110°	254.0	6.7
110°-120°	88.0	2.3
120°-130°	58.6	1.6
130°-140°	29.2	0.8
140°-150°	8.6	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2726.6	72.4
0°-180°	3767.0	100.0

Coefficient of Utilization



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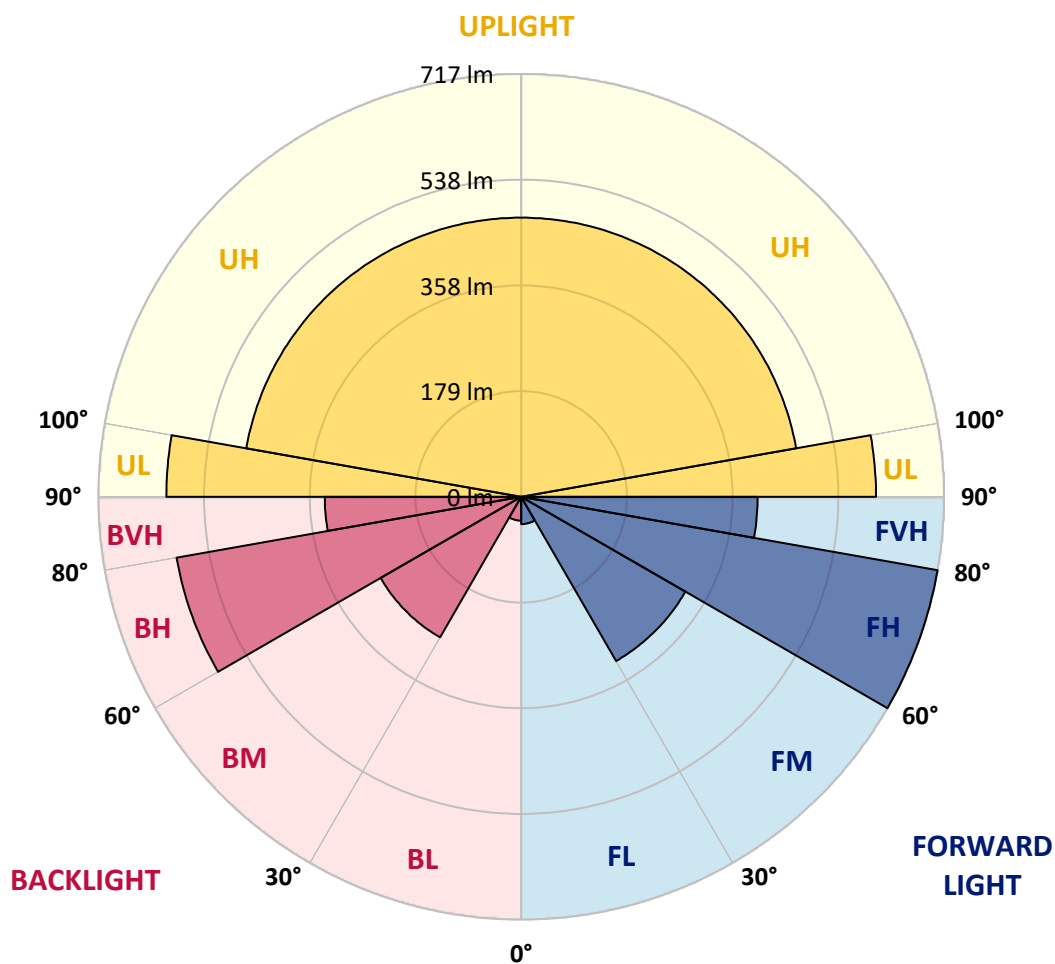
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	46.3	1.2			
FM	(30°-60°)	321.4	8.5			
FH	(60°-80°)	716.7	19.0			G1/1800
FVH	(80°-90°)	400.7	10.6			G3/500
BL	(0°-30°)	40.3	1.1	B0/110		
BM	(30°-60°)	275.0	7.3	B1/1000		
BH	(60°-80°)	593.2	15.7	B2/1000		G0/660
BVH	(80°-90°)	332.9	8.8			G3/500
UL	(90°-100°)	601.5	16.0		U4/1000	
UH	(100°-180°)	473.2	12.6		U3/500	

BUG Rating: B2-U4-G3

Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
2.5°	63.4	61.6	61.6	62.2	62.2	59.8	57.9	57.9	56.7	55.5	53.1
5°	77.3	76.1	76.1	76.1	76.1	76.7	74.9	73.6	71.2	70.0	68.2
7.5°	88.1	87.5	87.5	88.1	87.5	86.9	85.1	85.1	82.7	81.5	79.7
10°	96.0	95.4	95.4	95.4	94.2	93.0	91.8	91.2	89.3	87.5	85.7
12.5°	100.2	99.6	100.2	100.2	99.0	96.6	96.0	95.4	94.2	92.4	89.9
15°	105.0	104.4	105.0	105.0	103.2	102.0	100.8	100.2	99.0	97.8	95.4
17.5°	109.9	109.3	109.3	109.3	108.7	106.2	105.0	105.6	103.8	102.0	100.2
20°	115.3	114.7	114.1	114.1	113.5	111.1	110.5	109.9	108.7	106.8	105.0
22.5°	121.3	120.1	119.5	119.5	118.9	116.5	116.5	115.9	114.1	112.3	111.1
25°	127.4	126.8	124.4	124.4	123.7	121.9	122.5	121.3	119.5	117.1	116.5
27.5°	132.2	131.0	129.2	128.6	128.0	126.2	126.8	125.6	123.1	121.3	120.7
30°	135.2	134.6	132.2	132.2	130.4	129.8	129.8	128.0	125.6	123.7	124.4
32.5°	137.0	137.0	134.6	134.0	132.8	132.2	131.6	130.4	127.4	125.6	126.2
35°	140.0	139.4	137.6	137.0	135.2	135.2	134.0	132.2	128.6	128.0	128.6
37.5°	143.7	143.1	141.9	141.3	138.2	139.4	137.6	136.4	132.8	132.2	131.6
40°	152.1	152.1	150.3	150.3	146.7	149.7	147.9	148.5	144.9	144.3	141.9
42.5°	167.8	167.8	168.4	169.0	166.0	169.0	168.4	171.4	168.4	166.0	162.4
45°	198.6	196.2	199.8	198.6	196.8	199.8	198.6	202.8	201.6	198.6	195.0
47.5°	236.6	241.5	242.1	243.3	239.6	243.3	242.1	246.9	249.3	245.7	236.0
50°	289.1	294.0	299.4	299.4	296.4	297.6	297.0	304.2	307.3	307.9	294.6
52.5°	350.7	355.5	362.8	367.0	362.2	365.8	367.0	380.9	390.6	389.3	366.4
55°	423.2	430.4	439.5	441.9	433.4	435.8	437.0	454.5	473.9	471.4	441.9
57.5°	493.8	500.4	508.3	512.5	502.2	499.2	489.6	510.1	534.8	533.6	490.2
60°	551.7	556.6	565.0	569.2	559.0	552.9	532.4	554.1	582.5	584.3	533.6
62.5°	603.0	605.5	612.7	616.9	605.5	598.8	573.5	596.4	624.2	626.6	571.6
65°	648.3	644.7	662.8	664.0	647.7	637.4	613.3	638.1	664.6	666.4	604.2
67.5°	688.8	681.5	701.4	705.7	687.5	671.9	648.9	667.6	696.6	695.4	640.5
70°	725.0	715.3	744.3	746.7	722.6	701.4	688.2	699.0	731.6	732.2	671.9
72.5°	761.8	743.7	777.5	778.1	757.6	726.8	710.5	724.4	756.4	753.3	696.6
75°	790.8	758.8	807.1	804.7	785.9	748.5	732.8	743.7	781.7	780.5	713.5
77.5°	818.5	772.7	822.8	821.0	804.1	763.6	744.3	759.4	795.6	795.0	728.6
79°	816.1	770.9	825.8	822.2	807.1	767.2	743.7	756.4	796.8	793.8	725.6
80°	813.7	765.4	821.6	818.5	802.2	763.0	735.2	745.5	785.9	784.1	715.9
82.5°	796.8	752.1	807.1	802.8	789.0	753.3	726.8	736.4	784.1	778.1	706.9
85°	773.9	731.6	785.3	781.7	768.4	734.0	703.2	711.1	753.3	752.1	685.7
87.5°	744.3	705.7	759.4	755.8	743.7	712.3	681.5	690.6	733.4	732.8	662.8
90°	715.9	678.5	725.0	723.8	711.7	682.7	656.2	670.0	714.1	711.7	642.3
92.5°	673.1	639.3	681.5	682.1	670.6	646.5	621.8	633.2	667.6	667.0	603.0
95°	629.6	598.2	636.8	636.8	626.0	604.8	579.5	587.9	621.8	627.2	565.6
97.5°	572.3	544.5	578.9	580.1	571.6	553.5	531.8	542.7	575.3	580.7	524.6
100°	483.5	464.8	495.0	498.0	491.4	480.5	465.4	481.1	509.5	515.5	466.6
102.5°	353.7	348.3	374.9	373.7	371.2	368.2	364.6	373.1	391.8	400.8	350.7
105°	240.2	231.2	245.1	244.5	239.6	231.8	222.7	222.1	227.0	223.3	198.6
107.5°	161.8	158.2	163.6	164.2	160.6	153.9	145.5	144.9	149.1	146.7	133.4



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	123.1	121.3	124.4	125.0	123.1	117.7	113.5	113.5	117.7	115.9	107.4
112.5°	106.8	105.6	107.4	107.4	106.2	100.8	98.4	100.2	103.8	103.2	96.0
115°	97.2	96.6	97.2	97.8	96.0	91.2	89.9	91.8	95.4	94.8	88.7
117.5°	90.5	89.9	89.9	90.5	88.7	84.5	83.9	85.7	89.3	88.7	83.3
120°	84.5	84.5	84.5	84.5	83.3	79.7	79.1	81.5	84.5	83.9	79.1
122.5°	78.5	78.5	78.5	78.5	77.3	74.9	74.9	77.3	79.7	79.1	74.9
125°	71.8	71.8	71.2	71.8	70.6	69.4	69.4	71.8	73.6	73.6	70.0
127.5°	65.2	65.2	64.0	64.6	63.4	62.8	63.4	65.8	67.6	67.6	65.2
130°	57.9	57.3	56.1	56.7	55.5	55.5	56.7	59.2	60.4	61.0	58.6
132.5°	49.5	48.9	47.7	47.7	47.7	47.7	48.9	50.7	52.5	52.5	51.3
135°	41.0	40.4	39.2	39.2	39.2	38.6	40.4	42.3	43.5	43.5	42.3
137.5°	32.0	32.0	30.8	31.4	30.8	30.2	31.4	32.6	33.2	33.8	32.6
140°	25.4	25.4	24.7	24.1	23.5	22.9	23.5	24.1	24.7	25.4	24.7
142.5°	19.9	19.9	19.3	19.3	18.7	18.1	18.1	18.7	19.9	19.9	19.3
145°	15.1	15.1	15.1	14.5	13.9	13.9	13.9	14.5	15.1	15.1	15.1
147.5°	10.9	10.3	10.3	10.3	9.7	9.7	10.3	10.3	10.9	10.9	10.9
150°	5.4	5.4	5.4	5.4	5.4	5.4	6.0	6.0	6.6	6.6	6.0
152.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	1.2
155°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.0	0.6	0.0	0.0
165°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	0.0
167.5°	0.6	0.0	0.6	0.6	0.6	0.0	0.6	0.0	0.6	0.6	0.0
170°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.0	0.0
172.5°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.0	0.6	0.6	0.0
175°	0.0	0.0	0.6	0.6	0.6	0.0	0.0	0.0	0.6	0.6	0.0
177.5°	0.6	0.0	0.6	0.6	0.6	0.6	0.6	0.0	0.6	0.6	0.0
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7	47.7
2.5°	52.5	51.9	50.7	51.3	49.5	48.9	48.3	47.7	47.7	47.7	47.1
5°	67.0	65.8	62.8	61.6	61.6	60.4	60.4	59.8	59.8	59.8	59.8
7.5°	78.5	77.9	74.9	72.4	71.2	70.6	70.6	70.0	70.0	69.4	68.8
10°	84.5	83.3	81.5	80.3	79.1	77.9	76.7	77.3	76.7	75.5	75.5
12.5°	89.3	88.1	86.3	85.1	83.9	82.1	81.5	81.5	80.9	79.1	79.1
15°	94.2	93.0	91.8	89.9	88.7	86.9	85.7	85.7	85.1	83.3	82.7
17.5°	99.0	98.4	96.6	94.8	93.6	91.8	89.9	89.3	88.7	87.5	86.9
20°	104.4	103.2	101.4	99.6	97.8	96.6	94.8	93.0	92.4	91.8	91.2
22.5°	110.5	108.7	106.8	104.4	102.6	102.0	99.0	97.2	96.6	95.4	95.4
25°	115.9	113.5	111.7	109.9	107.4	106.8	103.8	101.4	100.2	99.6	99.6
27.5°	120.1	117.7	115.9	114.1	111.7	111.1	107.4	105.0	103.2	103.2	103.8
30°	123.1	121.3	119.5	117.1	115.9	115.3	111.1	108.1	106.2	106.8	106.8
32.5°	125.6	123.7	121.9	119.5	118.3	117.7	114.1	110.5	108.7	109.3	109.3
35°	127.4	126.2	124.4	121.9	121.3	120.1	116.5	112.9	111.7	112.9	112.3
37.5°	131.0	129.2	127.4	124.4	125.6	123.7	120.7	117.1	117.1	118.9	118.3
40°	140.0	137.6	135.2	131.6	132.2	131.6	129.8	126.8	126.8	129.2	128.6
42.5°	158.8	155.1	150.9	146.1	146.1	144.9	142.5	141.3	141.9	143.7	143.7
45°	187.1	180.5	177.5	171.4	170.2	169.0	166.6	164.2	167.8	167.2	168.4
47.5°	227.6	218.5	214.9	207.0	205.8	205.2	201.6	199.2	200.4	201.6	204.6
50°	282.5	269.2	265.0	257.2	255.3	252.9	245.7	242.7	245.1	246.9	249.3
52.5°	354.3	331.4	330.2	322.9	312.7	316.9	307.3	302.4	304.2	303.6	306.7
55°	425.6	399.0	402.0	392.4	378.5	383.3	364.6	364.0	361.0	358.6	359.8
57.5°	475.1	449.1	461.2	449.1	431.6	436.4	411.7	408.7	407.5	400.2	397.8
60°	513.1	486.5	504.6	487.7	468.4	481.1	446.1	448.5	442.5	434.6	429.2
62.5°	546.9	519.7	541.5	522.2	501.0	514.3	475.1	482.9	470.8	464.2	454.5
65°	578.9	553.5	575.9	558.4	530.0	548.7	504.0	518.5	505.9	493.8	484.7
67.5°	609.7	584.9	610.9	593.4	562.6	580.7	526.4	548.1	534.8	521.5	510.7
70°	635.6	609.7	639.9	623.6	590.4	602.4	537.8	576.5	557.8	545.7	530.6
72.5°	659.8	629.6	667.0	651.9	616.9	627.2	554.7	598.8	569.2	557.8	546.9
75°	675.5	642.3	689.4	671.9	643.5	648.9	575.3	616.3	590.4	571.6	563.2
77.5°	690.0	653.7	703.2	682.7	656.8	659.8	588.6	628.4	599.4	578.3	567.4
79°	686.9	653.1	705.7	687.5	662.8	664.0	591.6	628.4	600.0	576.5	568.6
80°	679.7	647.7	699.6	679.1	654.3	656.2	588.6	623.6	601.8	569.8	562.6
82.5°	671.9	638.7	690.6	671.9	647.1	645.3	584.3	616.3	589.8	563.8	556.0
85°	651.3	622.4	671.3	652.5	632.0	629.0	571.0	600.6	577.7	545.1	538.4
87.5°	632.0	603.6	653.1	635.0	615.1	612.7	560.2	589.8	563.8	528.8	525.2
90°	610.9	581.9	628.4	610.3	587.9	583.7	536.0	565.6	544.5	510.7	507.1
92.5°	572.9	546.9	591.0	575.3	556.6	553.5	507.7	534.8	514.9	484.7	481.1
95°	538.4	513.7	552.9	539.7	522.2	521.5	476.3	505.2	485.9	458.8	457.0
97.5°	501.0	476.9	510.7	498.6	481.1	479.3	437.0	463.0	446.1	421.3	419.5
100°	441.9	421.3	443.7	434.6	414.1	419.5	382.1	409.9	396.6	374.9	370.6
102.5°	331.4	315.1	322.3	315.1	297.0	304.8	285.5	315.1	309.7	297.6	294.0
105°	187.7	182.9	187.7	185.3	178.7	176.9	167.2	187.1	182.9	178.7	176.3
107.5°	126.8	123.1	127.4	125.6	117.7	117.1	109.9	118.9	114.7	111.1	109.3



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	103.2	100.2	103.2	102.6	97.2	95.4	89.9	96.0	93.0	89.9	88.7
112.5°	92.4	89.9	92.4	91.8	86.3	85.7	81.5	86.3	83.9	81.5	80.9
115°	85.7	83.3	85.1	84.5	79.7	79.1	75.5	79.7	77.9	75.5	74.9
117.5°	80.9	78.5	79.7	78.5	74.9	73.6	70.6	74.2	73.0	70.0	69.4
120°	76.7	74.2	75.5	73.6	70.0	68.8	66.4	68.8	67.6	65.8	65.2
122.5°	73.0	70.6	71.2	68.8	65.2	63.4	61.6	62.8	62.2	60.4	59.8
125°	68.2	65.8	65.8	63.4	59.2	57.9	56.1	56.7	56.1	55.5	54.9
127.5°	62.8	61.0	59.8	57.3	53.7	51.3	50.1	50.7	50.7	50.1	49.5
130°	56.7	54.9	52.5	50.1	47.1	45.3	43.5	44.7	44.7	44.7	44.7
132.5°	49.5	47.7	45.3	42.9	39.8	38.6	36.8	38.0	38.6	39.2	38.6
135°	41.0	39.8	37.4	35.0	32.6	30.8	30.2	31.4	32.6	32.6	32.0
137.5°	32.0	30.8	29.6	27.8	25.4	24.1	23.5	24.7	26.0	26.0	25.4
140°	24.1	24.1	22.9	21.1	18.7	18.1	18.1	18.7	19.3	19.3	18.7
142.5°	18.7	18.7	17.5	16.3	14.5	13.9	13.9	14.5	15.1	15.1	14.5
145°	14.5	14.5	13.3	12.1	10.9	10.3	10.3	10.9	11.5	11.5	10.9
147.5°	10.9	10.3	9.1	8.5	7.2	7.2	7.2	7.2	7.8	7.8	7.8
150°	6.0	6.0	5.4	4.2	3.6	3.6	3.6	4.2	4.8	4.8	4.2
152.5°	1.2	1.2	1.2	1.2	0.6	0.0	0.6	0.6	0.6	0.6	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	0.6	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0
167.5°	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.6	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0
172.5°	0.0	0.0	0.6	0.6	0.0	0.0	0.0	0.6	0.6	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.0	0.0
177.5°	0.0	0.0	0.6	0.6	0.0	0.6	0.0	0.6	0.6	0.0	0.0
180°	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6	0.6

(END OF REPORT)