

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: P314620

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314620
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-1)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A4-D-U-SYM-7030
Description: BRECKENRIDGE 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: 3926 lumens
Efficiency: N/A
Efficacy: 100.4 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - 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



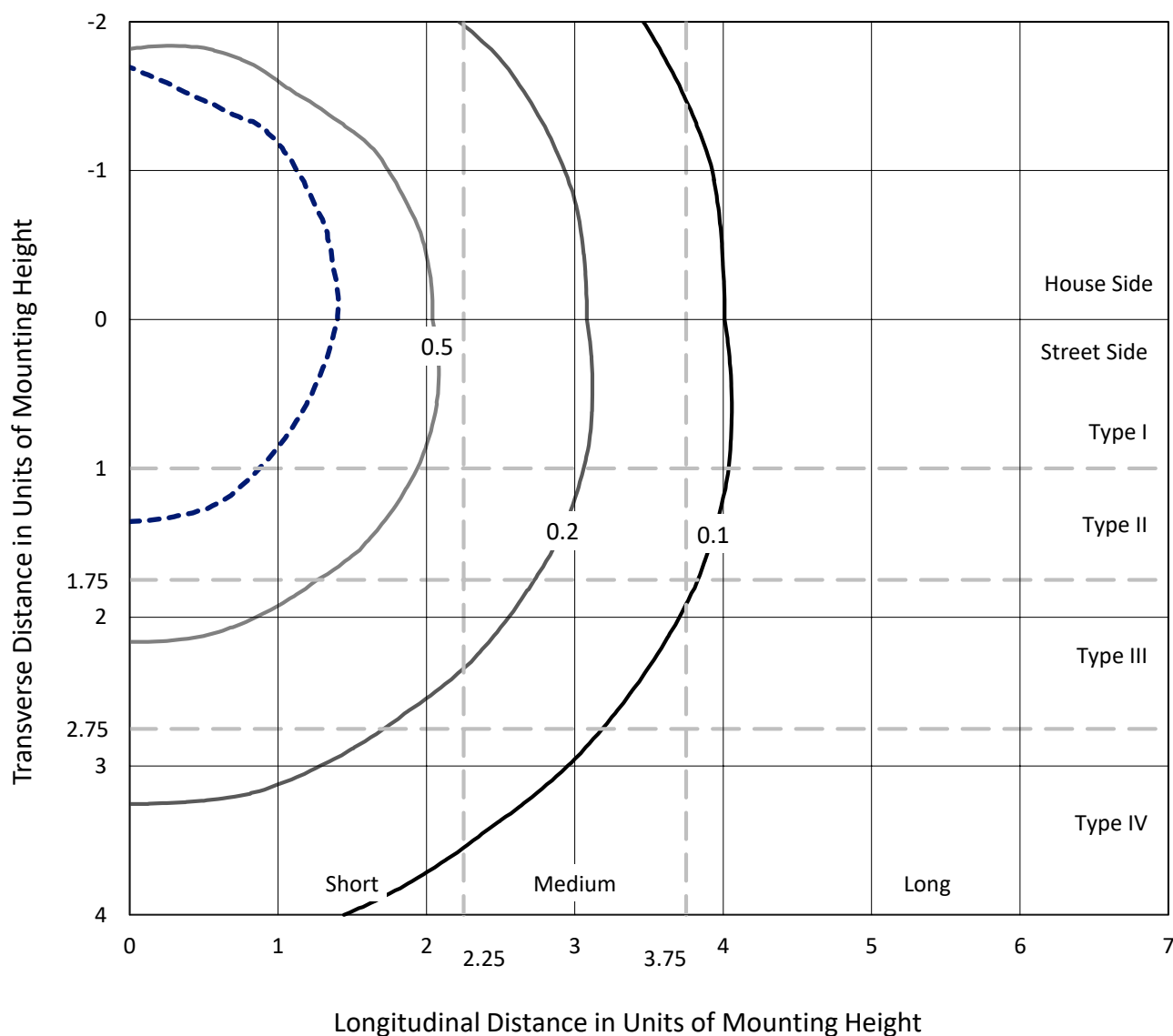
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

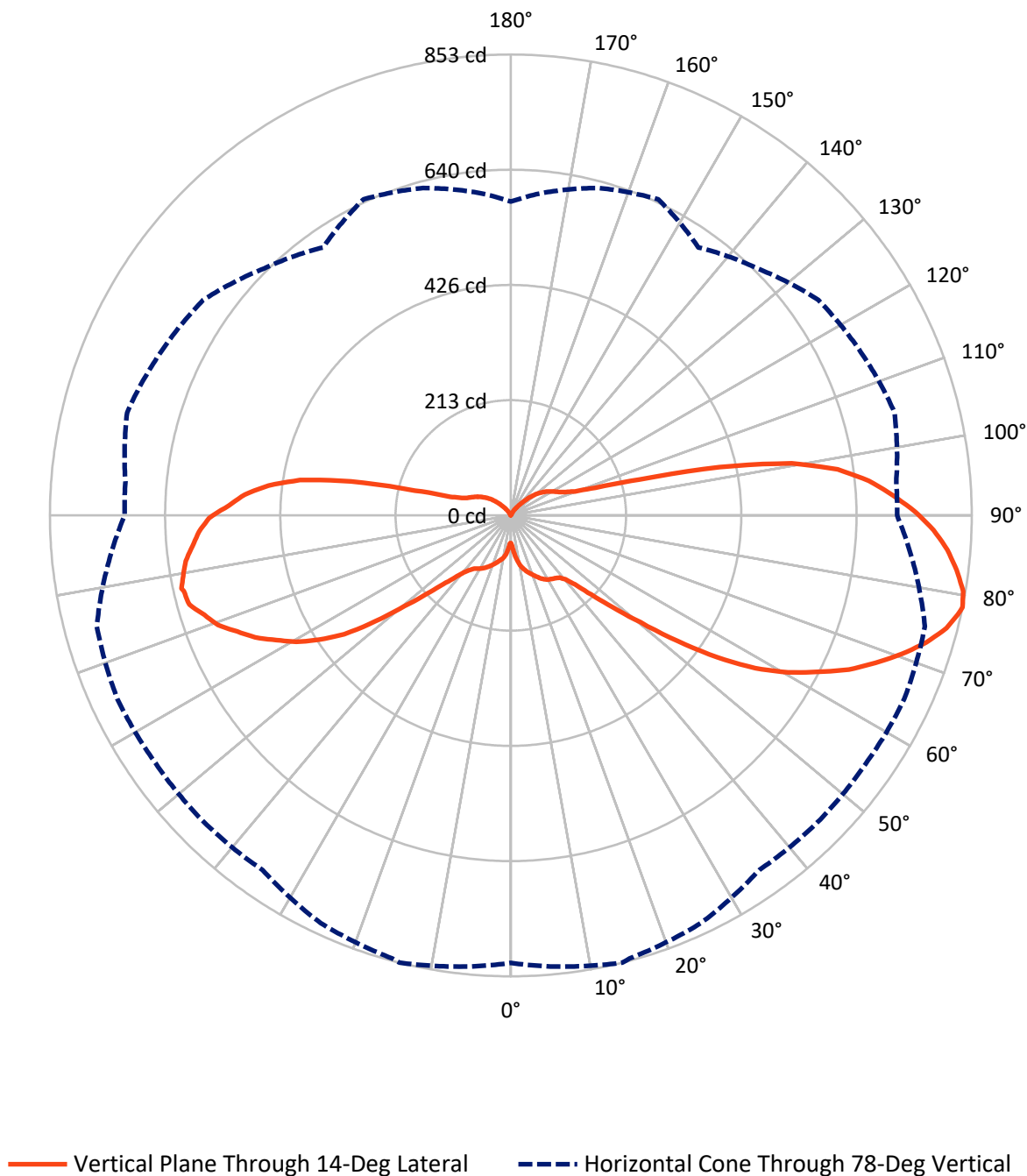


Based on 10 foot mounting height. Maximum calculated value = 1 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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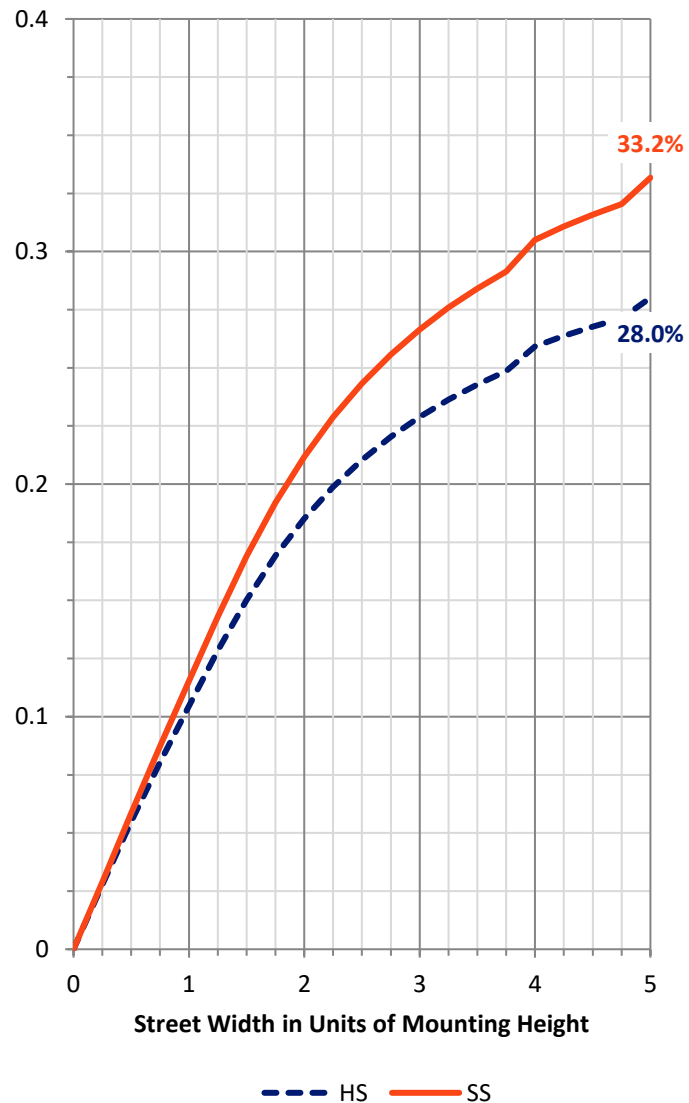
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1290.5	486.7	1777.2
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	1553.3	595.5	2148.8
	% Fixture	39.6	15.2	54.7
Total	Lumens	2843.8	1082.2	3926.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.0	0.2
10°-20°	28.0	0.7
20°-30°	54.9	1.4
30°-40°	84.0	2.1
40°-50°	159.2	4.1
50°-60°	384.0	9.8
60°-70°	607.8	15.5
70°-80°	759.1	19.3
80°-90°	759.8	19.4
90°-100°	624.3	15.9
100°-110°	264.4	6.7
110°-120°	92.1	2.3
120°-130°	61.4	1.6
130°-140°	30.6	0.8
140°-150°	9.0	0.2
150°-160°	0.4	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	2843.8	72.4
0°-180°	3926.0	100.0

Coefficient of Utilization



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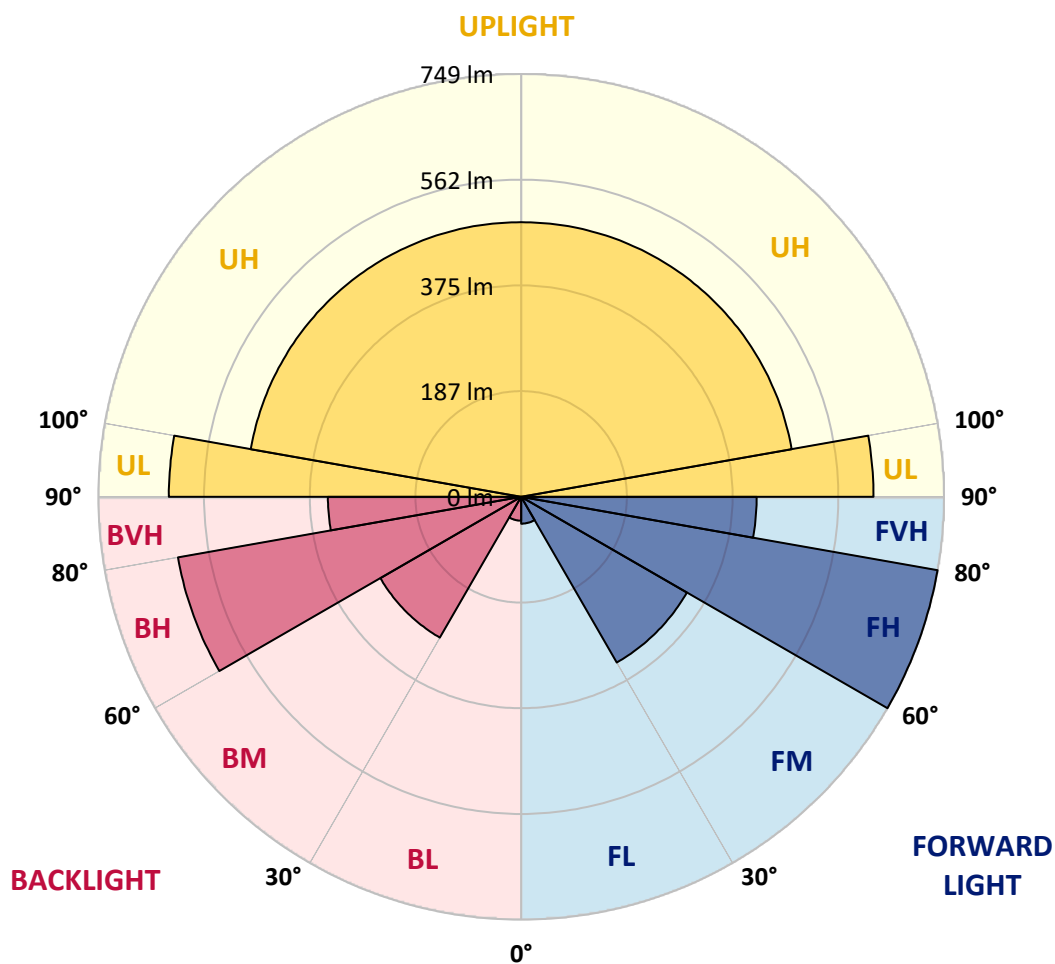
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	47.6	1.2			
FM	(30°-60°)	339.1	8.6			
FH	(60°-80°)	749.3	19.1			G1/1800
FVH	(80°-90°)	417.3	10.6			G3/500
BL	(0°-30°)	42.3	1.1	B0/110		
BM	(30°-60°)	288.1	7.3	B1/1000		
BH	(60°-80°)	617.5	15.7	B2/1000		G2/1000
BVH	(80°-90°)	342.5	8.7			G3/500
UL	(90°-100°)	624.3	15.9		U4/1000	
UH	(100°-180°)	486.7	12.4		U3/500	

BUG Rating: B2-U4-G3

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
2.5°	57.9	58.6	58.6	59.2	57.9	57.9	57.3	56.7	56.1	55.5	54.9
5°	72.4	72.4	72.4	72.4	71.2	71.8	71.2	70.0	68.8	68.8	67.6
7.5°	83.9	83.9	83.9	83.9	83.3	83.3	82.7	82.1	80.9	80.3	79.7
10°	92.4	93.0	93.6	93.6	93.0	92.4	91.1	90.5	89.9	88.7	86.9
12.5°	100.2	100.8	100.8	100.8	100.2	99.6	98.4	97.2	96.6	95.4	94.2
15°	106.8	106.8	106.8	106.2	105.6	105.0	103.8	103.2	102.0	100.8	99.6
17.5°	111.7	112.3	112.3	111.7	110.5	110.5	108.7	108.7	107.4	106.2	105.0
20°	117.7	117.7	117.7	117.1	116.5	115.9	114.1	113.5	112.9	111.7	110.5
22.5°	123.7	123.7	123.1	123.1	121.9	121.3	120.1	119.5	118.3	117.1	116.5
25°	130.4	130.4	129.2	129.2	128.0	126.8	125.6	125.0	123.7	123.1	122.5
27.5°	135.2	135.2	134.0	133.4	132.8	131.0	130.4	129.2	128.0	127.4	126.8
30°	139.4	138.8	137.6	137.6	136.4	134.6	133.4	132.2	131.0	131.0	131.0
32.5°	141.9	141.2	140.0	139.4	137.6	136.4	135.2	134.0	132.8	133.4	133.4
35°	144.3	144.3	142.5	141.9	140.0	138.2	136.4	135.2	134.6	135.2	135.8
37.5°	148.5	147.9	146.1	145.5	143.1	142.5	141.2	140.6	140.0	140.6	140.6
40°	157.5	157.5	155.7	155.1	153.3	153.9	153.3	153.9	152.7	153.9	152.1
42.5°	175.1	176.3	174.4	173.2	172.0	174.4	176.9	176.3	175.1	175.7	171.4
45°	205.8	208.3	208.9	207.0	203.4	210.1	213.7	214.3	211.3	209.5	202.8
47.5°	252.3	255.9	254.1	254.1	248.1	257.7	262.6	265.6	260.8	257.7	246.9
50°	310.9	316.9	310.9	313.3	302.4	319.3	327.2	329.0	324.8	318.1	304.2
52.5°	383.3	388.1	386.3	384.5	373.0	395.4	409.3	416.5	409.3	399.6	378.5
55°	465.4	464.8	463.6	465.4	454.5	472.6	493.8	498.0	495.6	475.7	451.5
57.5°	533.0	533.6	533.6	533.6	520.3	536.0	555.3	558.4	554.7	537.2	505.2
60°	585.5	587.3	589.7	591.0	578.3	585.5	606.0	605.4	601.8	580.1	552.9
62.5°	630.2	633.2	638.0	638.0	630.2	628.4	647.1	644.7	642.9	622.3	591.0
65°	674.9	677.9	687.5	686.9	677.9	669.4	689.9	688.1	683.9	663.4	626.0
67.5°	712.9	717.1	728.0	729.2	722.5	712.3	725.0	720.1	717.7	696.0	654.9
70°	753.3	759.4	767.8	767.8	752.1	744.3	755.7	752.7	755.7	734.0	686.9
72.5°	784.1	786.5	804.0	805.8	787.7	770.2	783.5	776.3	778.7	755.1	708.7
75°	816.1	819.1	833.0	833.0	808.3	792.6	802.2	799.2	803.4	784.1	729.8
77.5°	828.2	836.0	850.5	847.5	830.0	802.8	813.1	811.9	814.3	790.1	737.0
78°	828.2	837.8	852.9	848.7	832.4	801.0	802.8	801.6	803.4	793.2	740.7
80°	825.8	839.6	848.7	843.3	829.4	794.4	793.2	793.8	797.4	786.5	731.0
82.5°	807.0	821.5	831.2	828.8	816.7	778.7	784.7	791.4	799.2	779.9	723.7
85°	790.1	805.2	810.1	808.3	794.4	755.1	760.0	769.0	765.4	751.5	701.4
87.5°	767.8	781.1	782.9	781.7	769.6	732.2	735.8	741.9	745.5	737.6	682.7
90°	732.2	744.3	748.5	748.5	735.8	703.8	712.3	720.7	727.4	712.3	658.0
92.5°	693.0	703.8	708.1	708.1	697.2	665.8	671.2	682.1	683.3	671.2	621.1
95°	651.3	658.0	665.8	664.6	651.3	620.5	626.0	639.2	641.1	630.2	585.5
97.5°	598.8	601.2	610.9	609.1	595.8	573.4	581.3	593.4	594.6	583.7	540.2
100°	520.9	520.3	528.8	528.8	516.1	502.2	513.1	528.2	526.4	515.5	478.7
102.5°	391.8	384.5	396.6	395.4	391.8	386.3	397.2	411.7	415.3	407.4	370.0
105°	248.7	244.5	248.1	245.7	243.9	233.6	237.8	242.7	239.0	242.1	221.5
107.5°	164.2	161.8	164.2	163.6	160.0	155.1	154.5	155.7	155.1	152.7	141.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	126.2	125.0	126.8	126.2	124.3	121.9	121.3	122.5	122.5	120.7	114.1
112.5°	109.3	108.7	110.5	109.9	108.7	106.8	106.8	107.4	108.0	106.2	101.4
115°	98.4	99.0	100.2	100.2	99.0	96.6	97.2	98.4	98.4	97.2	93.6
117.5°	91.8	92.4	93.6	93.0	91.8	90.5	90.5	91.8	93.0	91.1	88.1
120°	86.3	86.3	87.5	86.9	85.7	85.1	85.7	86.9	87.5	85.7	82.7
122.5°	80.3	80.9	81.5	81.5	80.3	80.3	81.5	82.1	82.7	80.9	77.3
125°	73.6	74.2	74.8	74.8	74.2	74.8	75.5	76.1	77.3	75.5	71.8
127.5°	66.4	67.0	67.6	67.6	67.6	68.2	69.4	70.0	71.2	69.4	65.8
130°	57.9	58.6	59.8	59.2	59.8	61.0	62.8	62.8	63.4	62.2	58.6
132.5°	48.9	49.5	50.7	50.7	51.3	53.1	54.3	54.3	54.9	53.7	50.7
135°	39.2	39.8	41.7	41.7	42.9	44.1	45.3	45.3	45.9	44.7	41.7
137.5°	30.8	30.8	32.6	32.6	33.8	34.4	35.0	35.0	35.6	35.0	32.6
140°	24.1	24.1	26.0	25.4	26.6	26.6	26.6	26.6	27.2	26.6	24.7
142.5°	18.7	19.3	20.5	19.9	21.1	21.1	21.1	20.5	21.7	21.1	19.3
145°	14.5	14.5	15.7	15.1	15.7	16.3	16.3	15.7	16.3	15.7	14.5
147.5°	9.7	9.7	10.9	10.3	10.9	11.5	12.1	11.5	12.1	11.5	10.3
150°	4.8	4.8	6.0	5.4	6.0	6.6	7.2	7.2	7.2	6.6	5.4
152.5°	0.0	0.0	0.6	0.6	0.6	1.2	1.2	1.2	1.8	1.8	1.2
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	0.6	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.6	0.6
177.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.0	0.0	0.6
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°	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3	51.3
2.5°	54.3	54.3	54.9	54.3	53.7	53.1	52.5	51.9	51.9	50.7	51.3
5°	67.6	67.0	66.4	65.2	64.6	64.0	63.4	62.8	62.8	62.8	63.4
7.5°	79.1	78.5	76.7	74.8	74.8	74.2	73.6	73.0	72.4	71.2	71.2
10°	86.3	85.7	84.5	83.9	82.7	82.1	81.5	80.3	79.1	76.7	76.7
12.5°	93.0	92.4	90.5	89.9	89.3	88.1	86.9	85.7	83.3	81.5	80.9
15°	99.0	97.8	96.0	95.4	94.2	92.4	91.1	89.9	87.5	85.1	84.5
17.5°	103.8	102.6	101.4	100.2	98.4	96.6	94.8	93.6	91.8	89.9	89.3
20°	109.3	108.0	106.8	105.0	103.2	101.4	99.6	97.8	96.6	94.8	94.8
22.5°	115.3	114.1	112.3	111.1	108.0	106.2	103.8	102.0	100.8	100.2	99.6
25°	121.3	120.1	117.7	115.9	112.9	110.5	108.7	106.2	105.0	105.6	105.6
27.5°	126.2	124.3	121.9	120.1	117.1	114.7	112.3	110.5	109.3	109.9	109.9
30°	129.8	128.6	126.2	123.7	120.7	117.7	115.9	113.5	112.9	113.5	114.1
32.5°	132.8	131.6	128.6	126.8	123.7	120.7	118.3	116.5	115.9	116.5	116.5
35°	135.2	134.6	131.6	128.6	126.2	123.1	121.3	119.5	119.5	120.7	120.1
37.5°	139.4	138.8	135.8	132.8	130.4	128.0	126.8	125.6	126.2	126.8	126.8
40°	150.3	146.7	144.3	140.6	138.2	137.0	135.8	135.8	136.4	137.0	137.0
42.5°	168.4	165.4	161.8	156.9	154.5	152.7	150.9	152.7	153.9	153.3	153.3
45°	197.4	193.8	188.3	181.1	176.9	174.4	174.4	176.9	178.1	176.3	175.1
47.5°	239.6	234.2	227.6	219.1	212.5	210.1	208.3	212.5	213.1	208.9	205.2
50°	293.4	288.5	280.1	271.0	265.0	258.4	252.9	259.0	259.0	249.9	246.3
52.5°	367.0	358.0	348.9	338.6	329.0	318.7	311.5	321.7	319.9	306.6	300.0
55°	438.8	434.0	428.0	410.5	401.4	382.7	374.2	385.1	380.3	361.6	356.7
57.5°	488.9	492.0	486.5	472.6	460.6	438.2	423.1	431.6	423.7	405.0	393.0
60°	530.0	533.0	531.2	515.5	507.7	479.3	458.8	469.0	463.0	441.3	429.8
62.5°	566.2	570.4	570.4	554.1	547.5	509.5	488.3	500.4	493.2	472.0	463.6
65°	601.2	604.2	606.0	589.7	581.9	537.8	513.7	529.4	526.4	504.6	500.4
67.5°	629.6	635.0	639.2	624.2	612.1	568.6	537.2	562.0	551.7	534.2	521.5
70°	661.0	664.6	671.2	658.0	646.5	597.6	557.8	591.6	580.7	560.8	543.9
72.5°	682.7	684.5	699.0	684.5	665.8	621.1	580.1	617.5	598.8	572.2	557.1
75°	702.6	705.6	724.4	705.6	691.8	641.7	594.6	638.0	620.5	589.7	574.0
77.5°	709.3	711.1	731.0	710.5	691.2	645.3	604.2	642.9	624.2	593.4	577.7
78°	714.7	715.9	735.2	714.7	694.8	645.9	605.4	645.3	627.2	597.6	580.7
80°	704.4	708.7	726.2	708.1	687.5	639.8	598.2	640.4	619.9	586.7	571.6
82.5°	694.2	697.2	711.7	693.0	674.9	630.2	588.5	629.0	610.9	575.9	563.2
85°	671.8	677.9	694.8	677.9	657.3	613.3	577.7	616.3	595.2	560.2	545.1
87.5°	653.7	661.0	676.1	664.0	643.5	598.2	560.8	601.2	581.3	546.9	532.4
90°	627.8	633.2	645.9	632.0	612.7	571.0	540.2	577.1	561.4	530.0	516.7
92.5°	592.8	598.2	610.9	596.4	579.5	537.8	508.3	545.1	524.6	498.6	484.1
95°	558.4	563.2	574.7	563.2	548.1	508.3	480.5	517.3	496.2	470.8	460.0
97.5°	514.9	518.5	528.8	516.1	503.4	465.4	439.4	473.2	453.9	433.4	420.1
100°	452.1	453.3	458.8	443.7	438.2	404.4	384.5	413.5	397.2	382.7	370.0
102.5°	348.9	337.4	336.8	329.6	321.1	294.0	286.7	302.4	303.6	291.6	284.3
105°	209.5	201.0	199.2	195.6	187.1	173.8	169.0	185.3	183.5	179.9	173.8
107.5°	135.2	132.8	132.8	129.8	125.0	117.1	113.5	120.1	117.7	115.9	113.5



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	110.5	109.3	109.3	106.2	103.8	97.2	94.2	98.4	96.6	95.4	93.0
112.5°	98.4	97.2	97.2	95.4	93.0	87.5	85.7	89.3	86.9	85.1	83.9
115°	90.5	89.9	89.3	87.5	85.7	80.9	79.1	82.7	80.9	79.1	78.5
117.5°	85.1	83.9	83.9	82.1	80.3	76.1	74.8	77.3	75.5	73.6	73.0
120°	79.7	79.1	78.5	77.3	75.5	71.2	70.0	71.8	70.6	68.8	67.6
122.5°	74.8	74.2	73.0	71.8	69.4	65.8	65.2	66.4	64.6	62.8	62.2
125°	69.4	68.2	67.6	65.8	63.4	60.4	59.8	60.4	58.6	56.7	56.1
127.5°	64.0	62.2	61.0	59.2	56.7	53.7	53.7	54.3	53.1	51.3	50.7
130°	56.7	55.5	53.7	51.9	49.5	47.1	47.1	47.7	46.5	45.3	45.3
132.5°	48.9	47.1	45.9	44.1	42.3	40.4	40.4	40.4	39.8	39.2	38.6
135°	40.4	39.2	37.4	36.2	34.4	33.2	33.2	33.8	33.2	32.0	32.0
137.5°	31.4	30.2	29.0	28.4	27.2	26.0	26.0	26.6	26.0	25.4	25.4
140°	24.1	22.9	22.3	21.7	20.5	19.9	19.9	19.9	19.9	19.3	19.3
142.5°	18.7	18.1	17.5	16.9	16.3	15.1	15.7	15.7	15.7	15.1	15.1
145°	13.9	13.3	12.7	12.1	12.1	11.5	11.5	11.5	11.5	11.5	10.9
147.5°	9.7	9.1	8.5	7.8	7.8	7.8	7.8	7.8	7.8	7.2	7.2
150°	5.4	4.8	4.2	3.6	3.6	3.6	3.6	4.2	3.6	3.6	3.6
152.5°	1.2	0.6	0.6	0.6	0.6	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	0.0	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	0.6	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	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

(END OF REPORT)