

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: P314632

Luminaire Tested: **MPB-A4-D-U-ASYM-7027**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314632
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G2-1906-378-2)
Test Lab: INNOVATION CENTER
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: MPB-A4-D-U-ASYM-7027
Description: BRECKENRIDGE POST TOP LUMINAIRE
(1) 70 CRI, 2700K LIGHT ENGINE. ASYMMETRIC DISTRIBUTION.
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3652 lumens
Efficiency: N/A
Efficacy: 92.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B1 - U4 - G3

Input Watts (W): 39.5
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



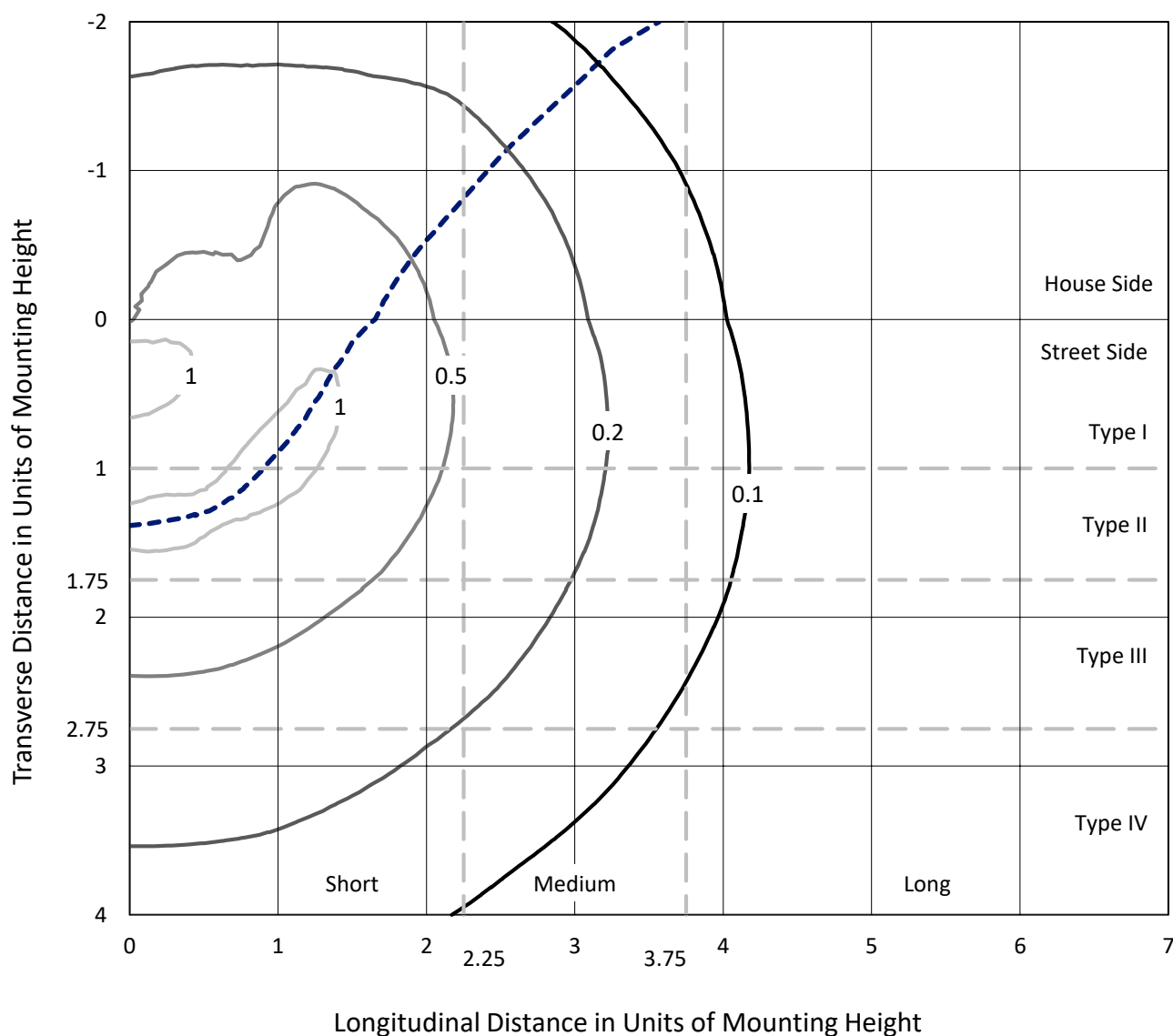
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

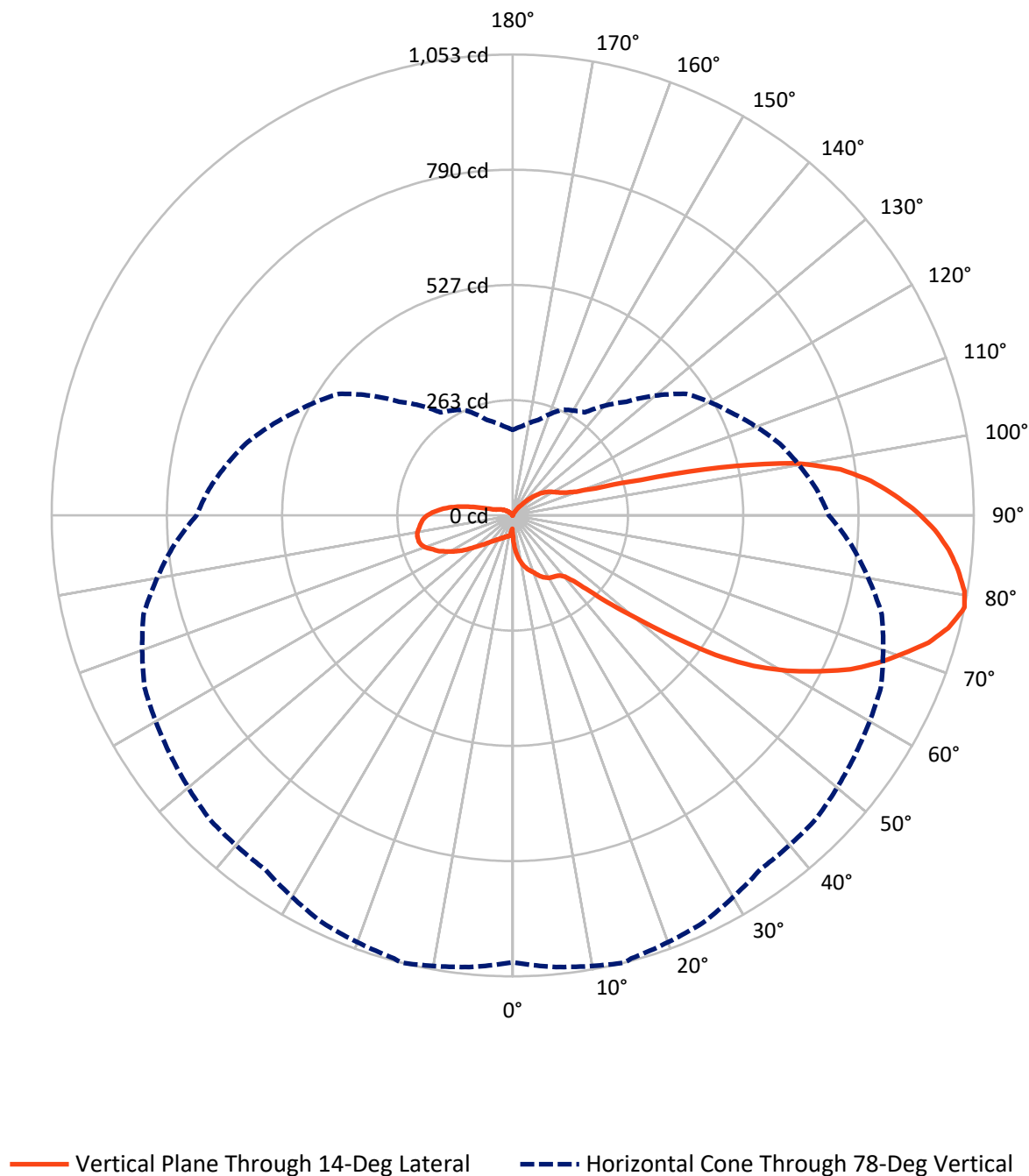


Based on 10 foot mounting height. Maximum calculated value = 1.2 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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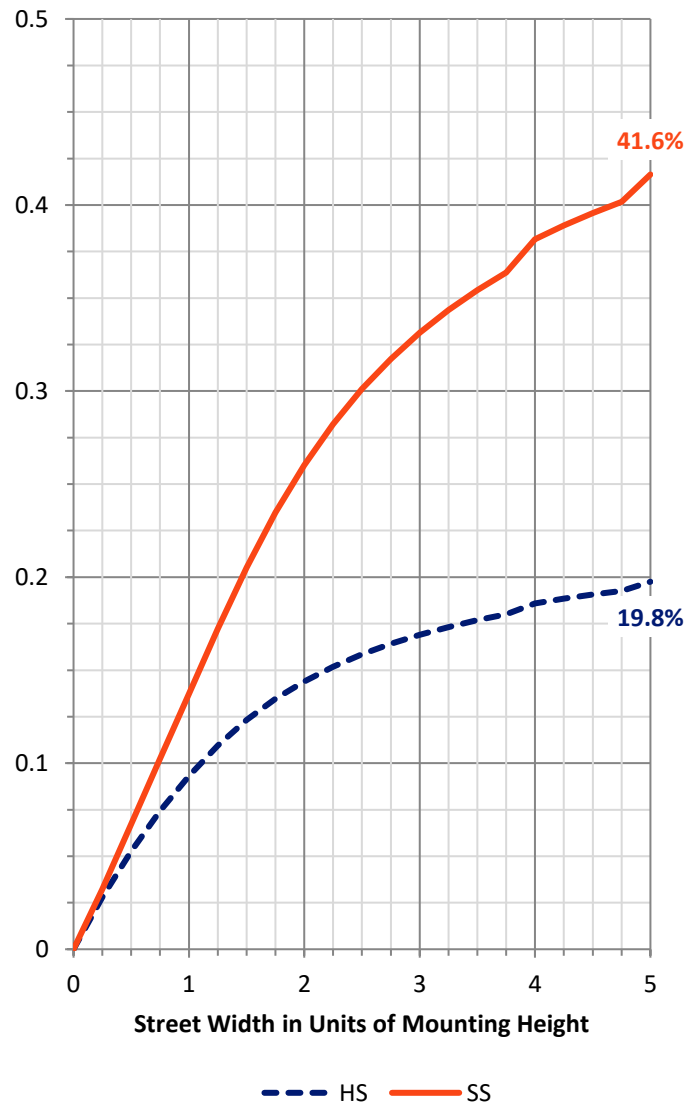
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	819.4	300.7	1120.1
	% Fixture	22.4	8.2	30.7
Street Side	Lumens	1825.7	706.3	2531.9
	% Fixture	50.0	19.3	69.3
Total	Lumens	2645.0	1007.0	3652.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.4	0.2
10°-20°	25.9	0.7
20°-30°	51.1	1.4
30°-40°	78.0	2.1
40°-50°	147.9	4.0
50°-60°	356.4	9.8
60°-70°	565.2	15.5
70°-80°	706.7	19.4
80°-90°	707.4	19.4
90°-100°	580.2	15.9
100°-110°	247.3	6.8
110°-120°	85.3	2.3
120°-130°	57.0	1.6
130°-140°	28.4	0.8
140°-150°	8.2	0.2
150°-160°	0.5	0.0
160°-170°	0.1	0.0
170°-180°	0.0	0.0
0°-90°	2645.0	72.4
0°-180°	3652.0	100.0

Coefficient of Utilization



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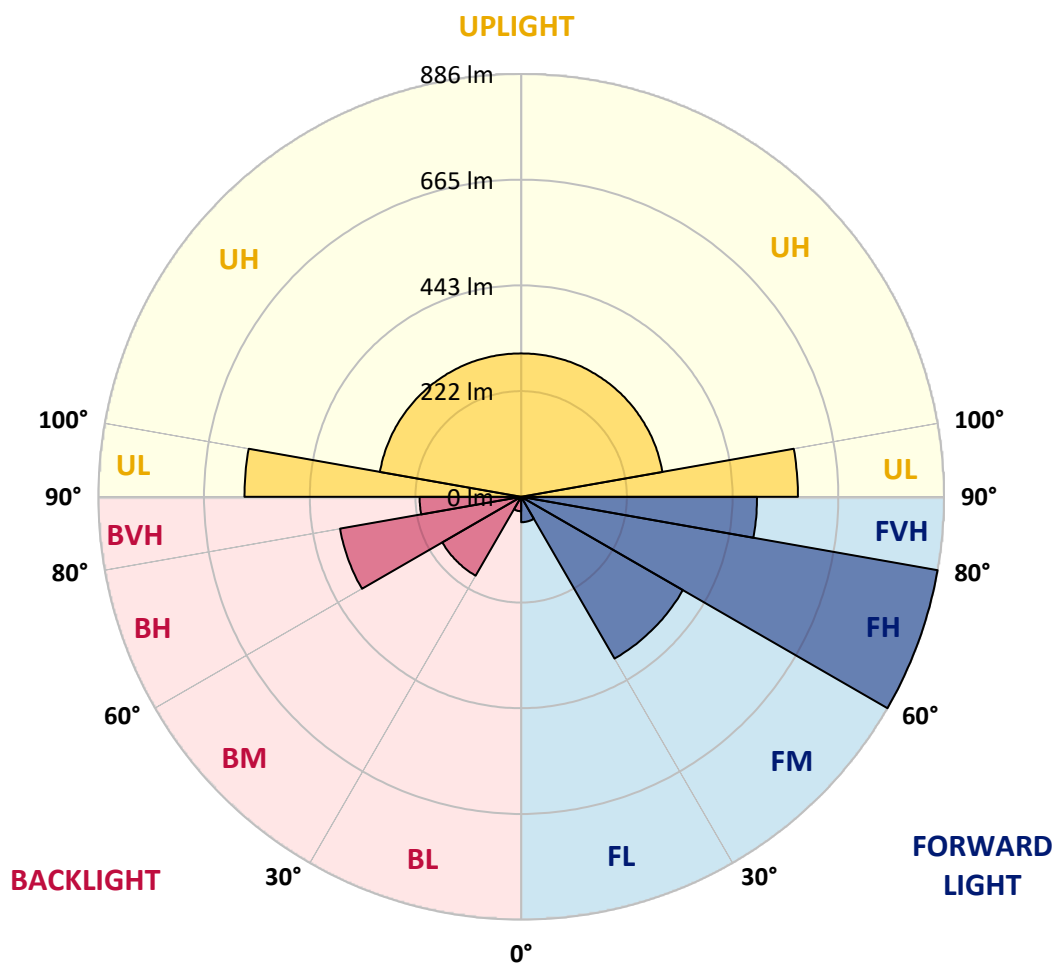
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	53.2	1.5			
FM	(30°-60°)	391.5	10.7			
FH	(60°-80°)	886.4	24.3			G1/1800
FVH	(80°-90°)	494.5	13.5			G3/500
BL	(0°-30°)	30.2	0.8	B0/110		
BM	(30°-60°)	190.8	5.2	B0/220		
BH	(60°-80°)	385.4	10.6	B1/500		G1/500
BVH	(80°-90°)	212.9	5.8			G2/225
UL	(90°-100°)	580.2	15.9		U4/1000	
UH	(100°-180°)	300.7	8.2		U3/500	

BUG Rating: B1-U4-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
2.5°	71.0	70.4	69.9	69.3	68.7	65.2	64.0	61.6	58.7	55.2	52.2
5°	88.1	87.5	86.3	86.3	84.5	82.2	79.8	76.9	72.2	67.5	63.4
7.5°	101.6	100.4	99.8	99.2	98.0	95.1	92.2	88.6	84.5	79.8	75.1
10°	111.5	111.5	110.9	110.9	109.2	106.3	102.1	98.6	93.9	88.1	82.8
12.5°	120.9	120.3	119.8	119.8	118.0	114.5	110.4	106.3	101.6	95.7	90.4
15°	127.4	127.4	127.4	126.8	124.5	121.5	117.4	113.9	108.6	102.1	96.9
17.5°	133.8	133.8	133.3	133.3	130.3	127.4	123.3	119.8	114.5	108.0	102.1
20°	140.9	140.9	139.7	139.1	136.8	134.4	129.7	125.6	120.3	114.5	108.0
22.5°	149.7	149.1	147.9	147.9	145.0	140.9	136.8	132.7	127.4	120.9	114.5
25°	156.7	156.7	155.6	155.0	152.6	149.1	144.4	138.5	133.3	126.8	120.9
27.5°	163.2	162.6	160.8	160.3	157.9	154.4	149.7	144.4	138.0	131.5	125.0
30°	168.5	167.3	165.5	165.5	162.6	158.5	153.8	148.5	140.9	135.0	128.6
32.5°	170.8	170.2	167.9	167.3	164.4	160.3	155.6	149.7	143.2	136.8	130.9
35°	173.2	172.6	170.2	169.7	166.1	161.4	156.2	150.9	143.8	138.5	132.1
37.5°	177.3	177.3	174.3	173.8	170.2	166.7	161.4	156.2	150.3	143.2	136.2
40°	186.1	185.5	183.7	182.6	179.6	178.5	173.8	168.5	162.6	157.3	146.8
42.5°	205.5	206.0	206.0	204.9	201.9	203.7	200.8	196.7	189.6	182.6	169.1
45°	240.7	247.1	245.4	244.2	240.7	246.6	244.8	243.0	233.1	222.5	203.7
47.5°	294.7	303.5	305.3	300.6	297.0	301.7	308.8	305.3	291.8	278.8	255.4
50°	365.1	374.5	372.2	371.0	364.0	377.5	386.9	385.1	369.2	353.4	317.0
52.5°	453.2	457.9	462.6	457.3	450.8	468.5	489.0	486.7	470.8	446.7	400.9
55°	553.6	558.3	563.0	556.5	547.1	567.7	594.7	589.4	572.9	533.6	480.8
57.5°	641.6	650.4	648.7	646.3	627.0	647.5	669.2	663.9	644.0	599.4	538.9
60°	708.0	713.2	720.3	717.9	707.4	711.5	733.8	720.9	696.8	647.5	582.3
62.5°	767.8	774.9	784.3	781.9	773.7	767.3	784.9	767.8	743.2	694.5	622.3
65°	827.1	835.4	848.3	844.7	834.2	819.5	836.5	818.9	791.3	738.5	658.7
67.5°	875.3	884.1	899.3	897.6	890.5	873.5	878.2	856.5	827.7	772.5	688.6
70°	924.6	934.6	945.7	948.1	928.7	913.4	917.5	893.5	868.2	813.6	723.2
72.5°	967.4	972.1	993.3	998.0	972.1	945.7	950.4	922.8	895.2	834.8	747.3
75°	1005.6	1010.9	1027.3	1027.9	998.5	973.9	975.1	952.2	927.5	867.1	769.6
77.5°	1022.0	1032.0	1049.6	1044.3	1024.4	986.8	990.9	968.0	938.7	872.3	772.5
78°	1020.9	1035.5	1053.1	1047.9	1027.3	986.8	980.4	954.5	928.1	872.9	776.6
80°	1016.7	1034.9	1046.1	1040.8	1022.6	976.2	968.0	946.3	921.6	865.9	764.9
82.5°	993.3	1013.2	1025.0	1020.9	1007.4	958.6	954.5	945.7	923.4	862.9	756.7
85°	972.7	992.7	999.1	996.2	981.5	935.7	933.4	917.5	887.6	831.2	730.9
87.5°	945.1	962.2	965.1	965.7	948.7	902.3	898.8	885.8	864.1	812.5	713.2
90°	902.3	917.0	923.4	923.4	909.3	866.5	867.1	862.9	843.0	787.8	688.6
92.5°	853.6	867.6	874.1	873.5	861.2	823.6	823.6	816.0	790.2	742.0	649.3
95°	801.9	812.5	821.9	821.3	804.8	769.6	768.4	767.8	743.2	696.2	611.1
97.5°	737.3	743.2	756.1	754.3	739.1	712.7	713.8	716.2	693.9	649.8	567.7
100°	638.1	637.5	654.0	650.4	641.0	624.0	631.7	635.2	616.4	578.2	509.0
102.5°	474.9	474.3	488.4	484.9	485.5	479.0	491.3	497.2	485.5	456.1	399.8
105°	297.6	295.3	303.5	301.1	298.2	290.0	291.8	289.4	283.0	265.3	233.1
107.5°	197.2	195.5	199.6	200.8	195.5	189.6	187.9	185.5	178.5	167.9	149.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	152.6	152.6	155.0	153.8	151.5	148.5	146.2	145.0	139.7	132.7	119.2
112.5°	130.9	130.9	133.3	132.7	130.9	128.0	127.4	126.2	122.7	116.8	106.3
115°	119.2	119.2	120.9	120.9	119.2	116.2	115.6	115.1	112.7	107.4	98.0
117.5°	111.5	110.9	112.7	112.7	110.4	108.6	108.6	108.0	106.3	101.0	92.8
120°	104.5	104.5	105.7	105.7	103.9	102.7	103.3	102.7	101.0	95.7	87.5
122.5°	98.0	98.0	99.2	98.6	97.4	97.4	97.4	97.4	95.7	91.0	82.8
125°	89.8	89.8	91.0	91.0	89.8	90.4	91.0	91.0	89.8	85.1	77.5
127.5°	81.0	81.0	82.2	82.2	81.6	82.8	84.5	83.9	82.8	78.7	71.6
130°	71.0	71.0	72.2	72.8	72.8	74.6	75.7	75.7	74.6	71.0	64.0
132.5°	60.5	59.9	61.1	61.6	62.8	64.6	65.2	65.2	64.6	61.1	55.2
135°	48.7	48.7	50.5	51.1	52.2	53.4	54.0	54.6	54.0	51.1	45.8
137.5°	37.6	37.6	39.3	39.9	41.1	41.7	41.7	42.9	41.7	39.9	35.8
140°	29.4	29.4	30.5	31.1	32.3	32.3	31.7	31.7	31.1	29.9	26.4
142.5°	23.5	22.9	24.7	24.7	25.2	25.8	25.2	25.2	24.7	23.5	21.1
145°	17.6	17.6	18.2	18.8	18.8	19.4	19.4	19.4	18.8	18.2	15.8
147.5°	11.7	11.7	12.9	12.9	13.5	14.1	14.1	14.1	13.5	12.9	11.2
150°	5.9	5.9	6.5	7.0	7.6	7.6	8.2	8.8	8.2	7.6	6.5
152.5°	0.0	0.0	0.6	0.6	1.2	1.8	2.3	2.3	2.3	2.3	2.3
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6
157.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.0	0.6	0.6	0.6
160°	0.0	0.0	0.0	0.0	0.0	0.6	0.0	0.6	0.6	0.6	0.6
162.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
165°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
167.5°	0.0	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6
170°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
172.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
175°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
177.5°	0.0	0.0	0.0	0.0	0.6	0.6	0.6	0.6	0.6	0.6	0.6
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°	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2	45.2
2.5°	50.5	48.1	45.2	42.3	39.3	36.4	34.0	31.7	30.5	29.4	29.4
5°	61.1	58.7	54.6	50.5	46.4	43.4	41.1	39.3	38.2	38.2	38.7
7.5°	72.8	70.4	64.6	58.7	54.6	51.1	48.1	46.4	44.6	43.4	43.4
10°	80.4	76.9	71.6	66.3	61.6	56.9	53.4	50.5	47.5	45.8	45.2
12.5°	86.9	83.9	77.5	71.6	66.3	60.5	56.4	52.2	48.7	46.4	45.8
15°	92.8	89.2	82.8	76.3	69.9	63.4	58.1	53.4	49.9	47.0	47.0
17.5°	98.6	95.1	88.1	81.0	73.4	66.3	59.9	55.2	51.1	48.7	48.1
20°	104.5	100.4	93.3	85.7	76.9	69.3	62.2	56.9	52.8	51.1	50.5
22.5°	110.4	106.3	98.6	90.4	81.0	72.2	64.6	58.7	54.6	53.4	53.4
25°	116.2	111.5	103.3	94.5	84.5	75.7	67.5	61.1	56.9	55.8	56.4
27.5°	120.3	116.2	107.4	98.0	88.1	78.7	69.9	63.4	59.3	58.7	58.7
30°	124.5	119.8	110.4	101.0	91.0	81.6	72.8	65.7	62.2	61.6	62.2
32.5°	126.8	122.1	112.1	103.3	93.3	83.4	75.1	68.1	64.6	65.2	65.2
35°	128.0	123.3	114.5	105.1	95.1	85.7	77.5	71.0	68.7	68.7	68.7
37.5°	131.5	126.8	117.4	108.0	98.6	89.2	81.0	74.6	72.8	73.4	72.8
40°	140.3	135.6	125.0	114.5	104.5	94.5	85.7	79.2	78.1	78.7	78.1
42.5°	161.4	156.2	140.9	126.8	114.5	102.7	92.2	85.7	84.5	84.5	85.1
45°	192.5	185.5	168.5	147.3	131.5	115.6	102.1	93.9	92.2	91.6	91.0
47.5°	238.3	227.8	206.6	179.6	155.6	135.0	115.1	103.9	100.4	99.2	98.0
50°	298.2	286.5	255.4	220.1	193.1	160.3	132.7	116.8	110.4	106.8	105.7
52.5°	372.2	360.4	318.8	275.3	236.6	193.1	156.7	132.7	123.3	116.2	114.5
55°	446.7	434.4	388.0	328.7	285.9	227.2	183.2	151.5	138.0	126.8	125.6
57.5°	500.2	484.3	434.4	373.9	327.0	257.7	203.1	167.9	150.9	138.0	135.0
60°	536.6	520.1	471.4	405.1	358.7	281.2	219.6	182.0	164.4	150.3	147.9
62.5°	572.4	555.9	500.7	432.6	383.9	295.9	233.6	194.3	176.7	162.0	162.0
65°	605.8	588.2	528.3	460.8	408.6	310.0	246.6	206.6	190.2	176.1	179.0
67.5°	633.4	615.8	553.6	488.4	428.5	325.2	255.9	223.7	199.0	188.4	187.9
70°	665.7	645.2	580.0	511.9	453.2	344.6	265.3	237.2	211.9	200.8	191.4
72.5°	687.4	661.6	602.3	530.1	464.3	355.7	275.3	253.6	220.7	201.9	195.5
75°	710.9	687.4	623.4	545.4	484.3	365.7	281.2	260.6	224.8	202.5	194.9
77.5°	715.0	690.4	628.1	548.3	482.5	371.0	288.8	264.2	224.8	203.1	196.1
78°	722.1	696.2	631.7	553.0	484.3	367.5	287.1	266.5	225.4	203.1	195.5
80°	711.5	688.6	625.2	545.4	478.4	364.0	286.5	267.1	224.2	200.8	192.5
82.5°	699.7	679.2	612.9	536.6	470.8	358.7	282.4	257.7	219.0	193.7	186.1
85°	675.7	660.4	600.0	523.0	456.1	346.4	278.3	255.4	214.3	187.3	180.2
87.5°	657.5	643.4	582.3	514.2	447.9	336.4	270.0	248.9	209.0	181.4	174.3
90°	631.7	615.2	554.2	486.1	423.8	322.3	260.6	236.0	200.2	174.3	167.3
92.5°	597.0	583.5	525.4	459.1	400.9	301.7	244.2	222.5	186.1	164.4	156.7
95°	561.2	548.9	493.1	433.8	378.6	283.5	227.8	206.6	168.5	151.5	143.2
97.5°	520.1	509.0	456.1	398.0	345.2	260.1	205.5	186.1	148.5	132.7	127.4
100°	461.4	450.8	399.8	346.9	298.8	224.2	171.4	155.0	123.3	109.8	105.1
102.5°	355.7	346.9	302.9	260.6	219.6	163.2	121.5	111.5	93.3	81.6	78.1
105°	209.0	203.7	180.2	155.6	130.3	100.4	76.3	74.6	64.0	58.7	55.8
107.5°	135.6	131.5	118.0	103.9	88.6	70.4	56.4	53.4	47.5	45.2	44.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	110.9	107.4	96.9	85.1	73.4	58.1	48.1	44.6	39.9	38.2	37.6
112.5°	98.6	95.7	86.3	75.7	65.7	52.2	43.4	39.9	35.8	34.0	33.5
115°	91.6	88.1	79.2	69.9	61.1	48.7	40.5	37.0	32.9	30.5	30.5
117.5°	85.7	82.2	74.6	65.7	56.9	45.2	37.6	33.5	29.9	27.6	27.0
120°	81.6	78.1	70.4	61.6	53.4	42.3	35.2	30.5	26.4	24.1	23.5
122.5°	76.9	73.4	65.7	57.5	48.7	38.7	31.7	27.0	23.5	21.1	20.5
125°	72.2	68.7	61.1	52.8	44.0	34.6	28.2	23.5	20.0	18.2	17.6
127.5°	66.9	63.4	55.8	47.5	39.3	30.5	24.7	20.5	17.0	15.3	14.7
130°	59.9	56.4	49.3	41.7	34.0	26.4	21.1	17.0	14.7	12.9	12.3
132.5°	51.7	48.1	41.7	35.2	28.8	22.3	17.0	14.1	11.7	10.6	10.0
135°	42.9	39.9	34.6	28.8	23.5	18.2	14.1	11.7	9.4	8.2	8.2
137.5°	33.5	31.1	26.4	22.3	18.2	14.1	10.6	8.8	7.6	6.5	6.5
140°	25.2	23.5	20.0	17.0	13.5	10.6	8.2	7.0	5.9	4.7	4.7
142.5°	19.4	18.2	15.3	12.9	10.6	7.6	5.9	4.7	4.1	3.5	3.5
145°	14.7	13.5	11.2	9.4	7.6	5.3	4.1	2.9	2.3	2.3	1.8
147.5°	10.0	9.4	7.6	5.9	4.7	2.9	2.3	1.8	1.2	1.2	0.6
150°	5.3	4.7	3.5	2.9	1.8	1.2	1.2	0.6	0.0	0.0	0.0
152.5°	1.8	1.8	1.2	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.6	0.6	0.6	0.6	0.6	0.0	0.0	0.0	0.0	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)