

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: P314618

Luminaire Tested: **MPB-A2-D-U-SYM-7030**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P314618
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-A2-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: 1892 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Vertical Cylinder (Dia: 1' x H: 0.58')
IES Classification: Type IV - 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

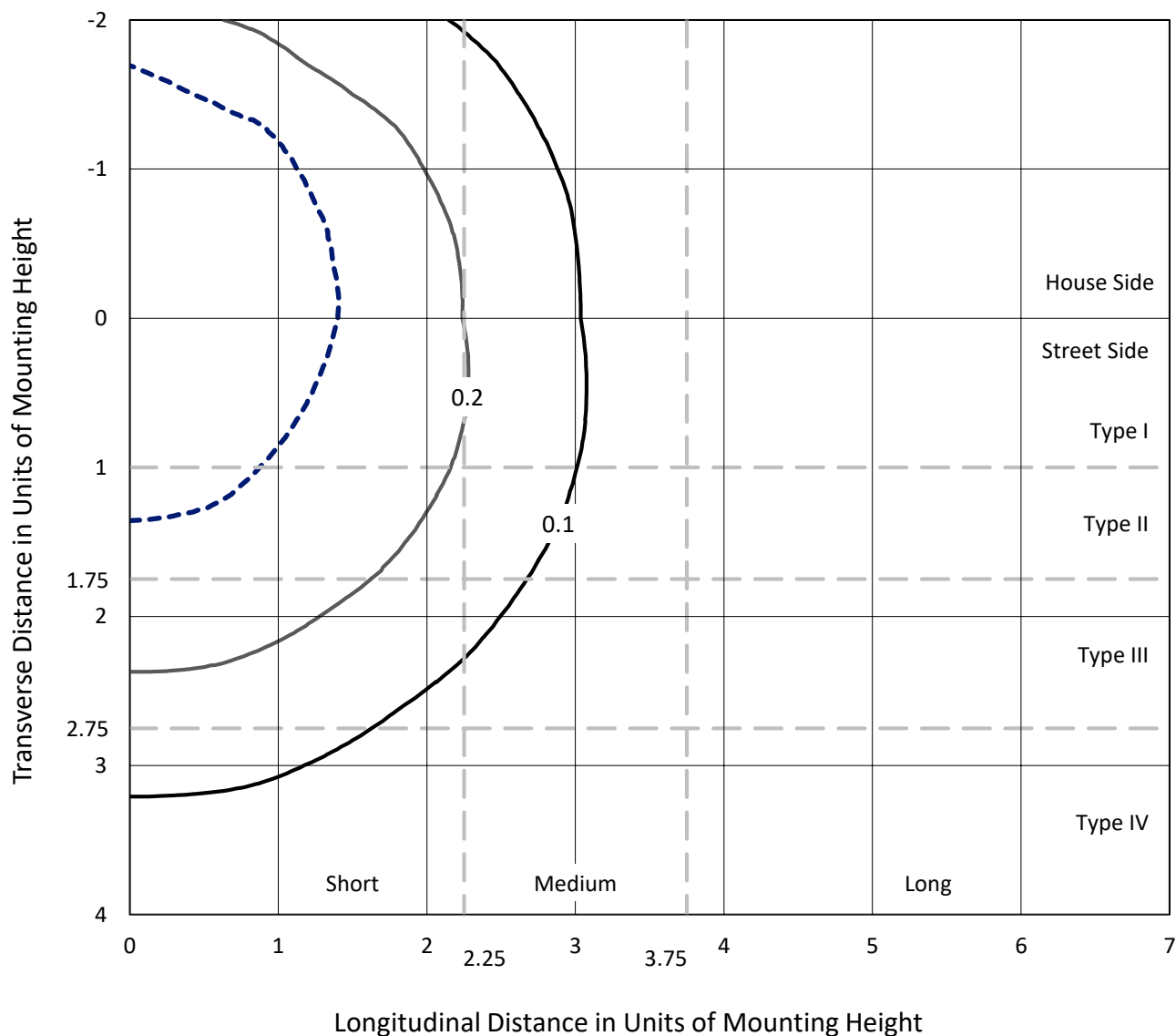


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

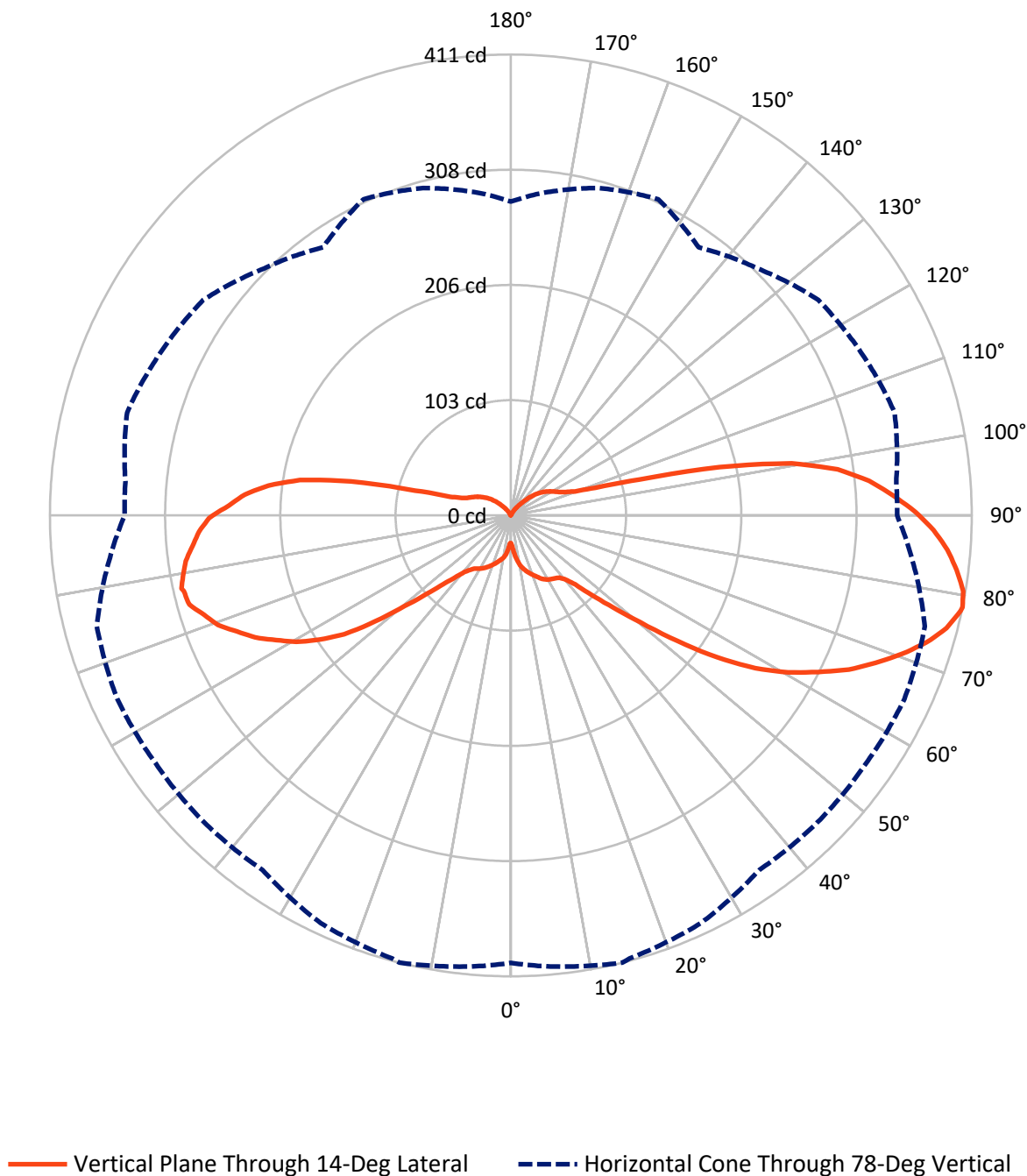


Based on 10 foot mounting height. Maximum calculated value = 0.5 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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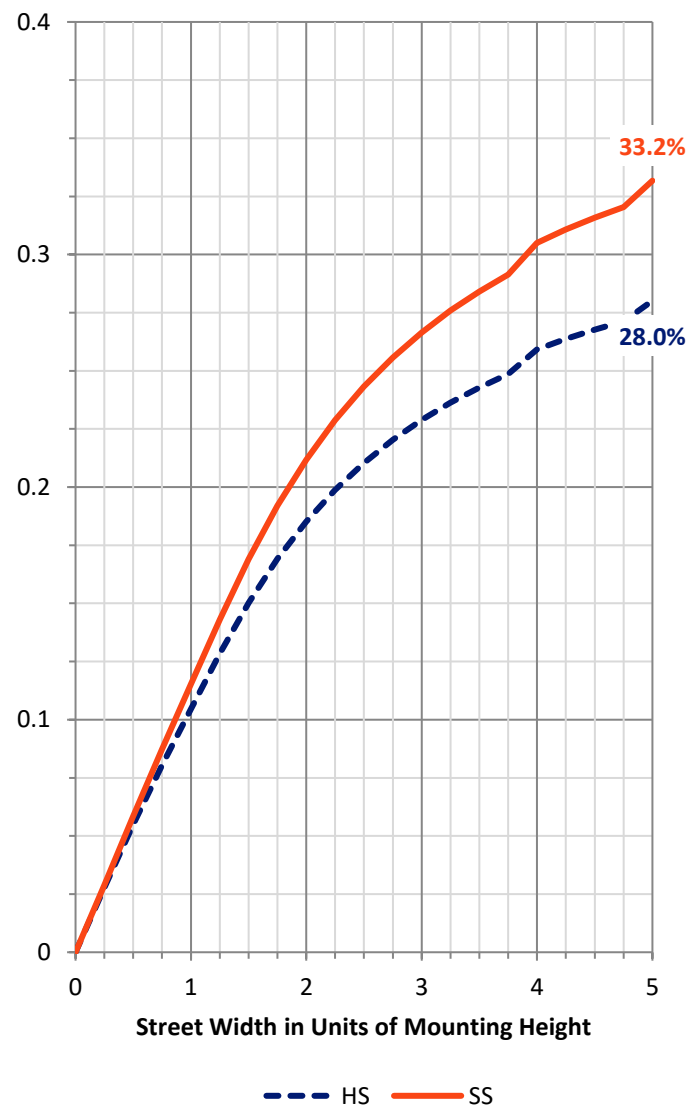
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	621.9	234.6	856.5
	% Fixture	32.9	12.4	45.3
Street Side	Lumens	748.6	287.0	1035.6
	% Fixture	39.6	15.2	54.7
Total	Lumens	1370.5	521.6	1892.0
	% Fixture	72.4	27.6	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.4	0.2
10°-20°	13.5	0.7
20°-30°	26.5	1.4
30°-40°	40.5	2.1
40°-50°	76.7	4.1
50°-60°	185.1	9.8
60°-70°	292.9	15.5
70°-80°	365.8	19.3
80°-90°	366.2	19.4
90°-100°	300.9	15.9
100°-110°	127.4	6.7
110°-120°	44.4	2.3
120°-130°	29.6	1.6
130°-140°	14.7	0.8
140°-150°	4.3	0.2
150°-160°	0.2	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	1370.5	72.4
0°-180°	1892.0	100.0

Coefficient of Utilization



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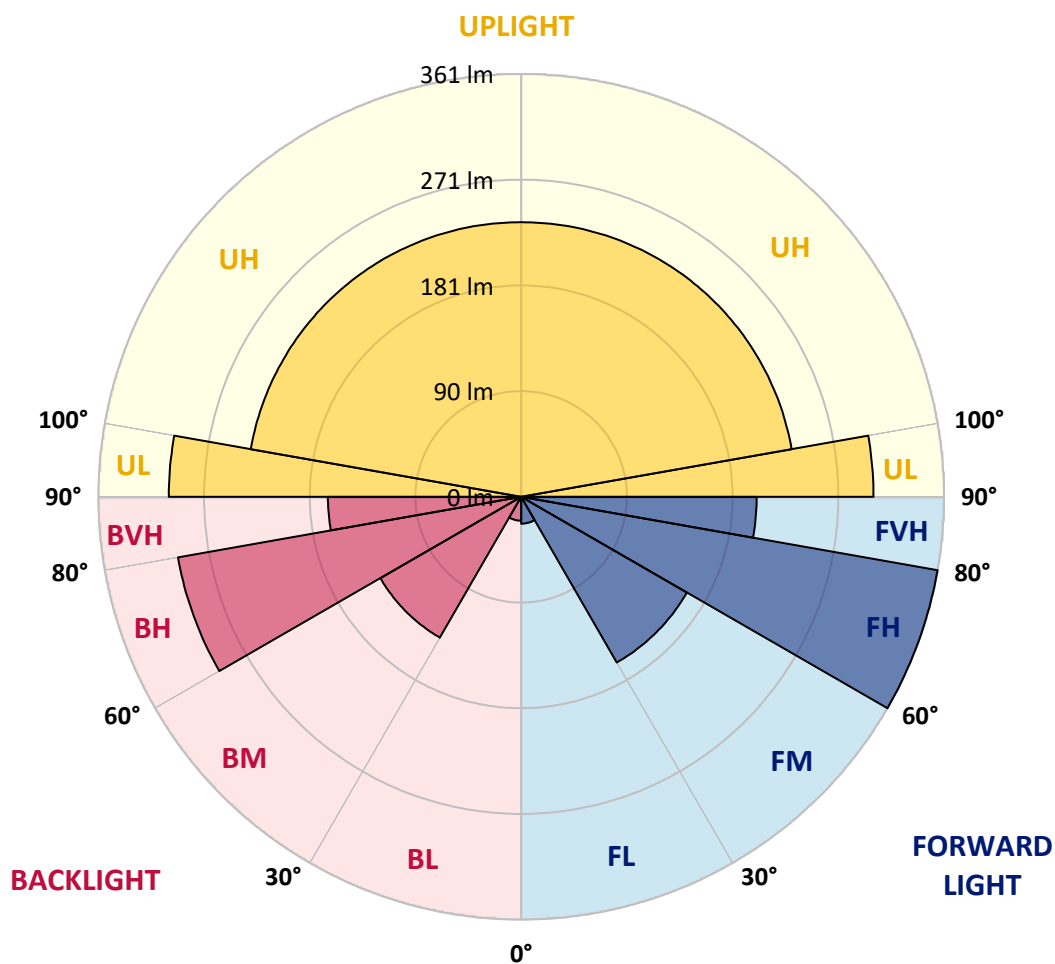
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	22.9	1.2			
FM	(30°-60°)	163.4	8.6			
FH	(60°-80°)	361.1	19.1			G0/660
FVH	(80°-90°)	201.1	10.6			G2/225
BL	(0°-30°)	20.4	1.1	B0/110		
BM	(30°-60°)	138.9	7.3	B0/220		
BH	(60°-80°)	297.6	15.7	B1/500		G1/500
BVH	(80°-90°)	165.1	8.7			G2/225
UL	(90°-100°)	300.9	15.9		U3/500	
UH	(100°-180°)	234.6	12.4		U3/500	

BUG Rating: B1-U3-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
0°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
2.5°	27.9	28.2	28.2	28.5	27.9	27.9	27.6	27.3	27.1	26.8	26.5
5°	34.9	34.9	34.9	34.9	34.3	34.6	34.3	33.7	33.2	33.2	32.6
7.5°	40.4	40.4	40.4	40.4	40.1	40.1	39.9	39.6	39.0	38.7	38.4
10°	44.5	44.8	45.1	45.1	44.8	44.5	43.9	43.6	43.3	42.8	41.9
12.5°	48.3	48.6	48.6	48.6	48.3	48.0	47.4	46.8	46.5	46.0	45.4
15°	51.5	51.5	51.5	51.2	50.9	50.6	50.0	49.7	49.2	48.6	48.0
17.5°	53.8	54.1	54.1	53.8	53.2	53.2	52.4	52.4	51.8	51.2	50.6
20°	56.7	56.7	56.7	56.4	56.1	55.9	55.0	54.7	54.4	53.8	53.2
22.5°	59.6	59.6	59.3	59.3	58.8	58.5	57.9	57.6	57.0	56.4	56.1
25°	62.8	62.8	62.3	62.3	61.7	61.1	60.5	60.2	59.6	59.3	59.1
27.5°	65.2	65.2	64.6	64.3	64.0	63.1	62.8	62.3	61.7	61.4	61.1
30°	67.2	66.9	66.3	66.3	65.7	64.9	64.3	63.7	63.1	63.1	63.1
32.5°	68.4	68.1	67.5	67.2	66.3	65.7	65.2	64.6	64.0	64.3	64.3
35°	69.5	69.5	68.7	68.4	67.5	66.6	65.7	65.2	64.9	65.2	65.5
37.5°	71.6	71.3	70.4	70.1	68.9	68.7	68.1	67.8	67.5	67.8	67.8
40°	75.9	75.9	75.1	74.8	73.9	74.2	73.9	74.2	73.6	74.2	73.3
42.5°	84.4	84.9	84.1	83.5	82.9	84.1	85.2	84.9	84.4	84.7	82.6
45°	99.2	100.4	100.7	99.8	98.0	101.2	103.0	103.3	101.8	100.9	97.7
47.5°	121.6	123.3	122.5	122.5	119.6	124.2	126.5	128.0	125.7	124.2	119.0
50°	149.8	152.7	149.8	151.0	145.7	153.9	157.7	158.5	156.5	153.3	146.6
52.5°	184.7	187.0	186.2	185.3	179.8	190.5	197.2	200.7	197.2	192.6	182.4
55°	224.3	224.0	223.4	224.3	219.0	227.8	238.0	240.0	238.8	229.2	217.6
57.5°	256.9	257.2	257.2	257.2	250.8	258.3	267.6	269.1	267.3	258.9	243.5
60°	282.2	283.0	284.2	284.8	278.7	282.2	292.1	291.8	290.0	279.6	266.5
62.5°	303.7	305.2	307.5	307.5	303.7	302.8	311.8	310.7	309.8	299.9	284.8
65°	325.2	326.7	331.3	331.0	326.7	322.6	332.5	331.6	329.6	319.7	301.7
67.5°	343.5	345.6	350.8	351.4	348.2	343.3	349.4	347.0	345.9	335.4	315.6
70°	363.0	365.9	370.0	370.0	362.5	358.7	364.2	362.7	364.2	353.7	331.0
72.5°	377.9	379.0	387.5	388.3	379.6	371.2	377.6	374.1	375.3	363.9	341.5
75°	393.3	394.7	401.4	401.4	389.5	381.9	386.6	385.1	387.2	377.9	351.7
77.5°	399.1	402.9	409.9	408.4	400.0	386.9	391.8	391.3	392.4	380.8	355.2
78°	399.1	403.8	411.0	409.0	401.1	386.0	386.9	386.3	387.2	382.2	356.9
80°	397.9	404.6	409.0	406.4	399.7	382.8	382.2	382.5	384.3	379.0	352.3
82.5°	388.9	395.9	400.6	399.4	393.6	375.3	378.2	381.4	385.1	375.8	348.8
85°	380.8	388.1	390.4	389.5	382.8	363.9	366.2	370.6	368.9	362.2	338.0
87.5°	370.0	376.4	377.3	376.7	370.9	352.9	354.6	357.5	359.3	355.5	329.0
90°	352.9	358.7	360.7	360.7	354.6	339.2	343.3	347.3	350.5	343.3	317.1
92.5°	333.9	339.2	341.2	341.2	336.0	320.9	323.5	328.7	329.3	323.5	299.3
95°	313.9	317.1	320.9	320.3	313.9	299.0	301.7	308.1	308.9	303.7	282.2
97.5°	288.6	289.7	294.4	293.5	287.1	276.4	280.1	286.0	286.5	281.3	260.4
100°	251.0	250.8	254.8	254.8	248.7	242.0	247.3	254.5	253.7	248.4	230.7
102.5°	188.8	185.3	191.1	190.5	188.8	186.2	191.4	198.4	200.1	196.4	178.3
105°	119.8	117.8	119.6	118.4	117.5	112.6	114.6	116.9	115.2	116.6	106.8
107.5°	79.1	78.0	79.1	78.8	77.1	74.8	74.5	75.1	74.8	73.6	68.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	14°	15°	25°	35°	45°	55°	65°	75°	85°
110°	60.8	60.2	61.1	60.8	59.9	58.8	58.5	59.1	59.1	58.2	55.0
112.5°	52.7	52.4	53.2	52.9	52.4	51.5	51.5	51.8	52.1	51.2	48.9
115°	47.4	47.7	48.3	48.3	47.7	46.5	46.8	47.4	47.4	46.8	45.1
117.5°	44.2	44.5	45.1	44.8	44.2	43.6	43.6	44.2	44.8	43.9	42.5
120°	41.6	41.6	42.2	41.9	41.3	41.0	41.3	41.9	42.2	41.3	39.9
122.5°	38.7	39.0	39.3	39.3	38.7	38.7	39.3	39.6	39.9	39.0	37.2
125°	35.5	35.8	36.1	36.1	35.8	36.1	36.4	36.7	37.2	36.4	34.6
127.5°	32.0	32.3	32.6	32.6	32.6	32.9	33.5	33.7	34.3	33.5	31.7
130°	27.9	28.2	28.8	28.5	28.8	29.4	30.3	30.3	30.5	30.0	28.2
132.5°	23.6	23.9	24.4	24.4	24.7	25.6	26.2	26.2	26.5	25.9	24.4
135°	18.9	19.2	20.1	20.1	20.7	21.2	21.8	21.8	22.1	21.5	20.1
137.5°	14.8	14.8	15.7	15.7	16.3	16.6	16.9	16.9	17.2	16.9	15.7
140°	11.6	11.6	12.5	12.2	12.8	12.8	12.8	12.8	13.1	12.8	11.9
142.5°	9.0	9.3	9.9	9.6	10.2	10.2	10.2	9.9	10.5	10.2	9.3
145°	7.0	7.0	7.6	7.3	7.6	7.9	7.9	7.6	7.9	7.6	7.0
147.5°	4.7	4.7	5.2	4.9	5.2	5.5	5.8	5.5	5.8	5.5	4.9
150°	2.3	2.3	2.9	2.6	2.9	3.2	3.5	3.5	3.5	3.2	2.6
152.5°	0.0	0.0	0.3	0.3	0.3	0.6	0.6	0.6	0.9	0.9	0.6
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	0.3	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	0.3	0.0	0.0	0.0	0.3	0.3
177.5°	0.0	0.0	0.0	0.0	0.0	0.3	0.0	0.0	0.0	0.0	0.3
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°	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7	24.7
2.5°	26.2	26.2	26.5	26.2	25.9	25.6	25.3	25.0	25.0	24.4	24.7
5°	32.6	32.3	32.0	31.4	31.1	30.8	30.5	30.3	30.3	30.3	30.5
7.5°	38.1	37.8	36.9	36.1	36.1	35.8	35.5	35.2	34.9	34.3	34.3
10°	41.6	41.3	40.7	40.4	39.9	39.6	39.3	38.7	38.1	36.9	36.9
12.5°	44.8	44.5	43.6	43.3	43.1	42.5	41.9	41.3	40.1	39.3	39.0
15°	47.7	47.1	46.3	46.0	45.4	44.5	43.9	43.3	42.2	41.0	40.7
17.5°	50.0	49.5	48.9	48.3	47.4	46.5	45.7	45.1	44.2	43.3	43.1
20°	52.7	52.1	51.5	50.6	49.7	48.9	48.0	47.1	46.5	45.7	45.7
22.5°	55.6	55.0	54.1	53.5	52.1	51.2	50.0	49.2	48.6	48.3	48.0
25°	58.5	57.9	56.7	55.9	54.4	53.2	52.4	51.2	50.6	50.9	50.9
27.5°	60.8	59.9	58.8	57.9	56.4	55.3	54.1	53.2	52.7	52.9	52.9
30°	62.5	62.0	60.8	59.6	58.2	56.7	55.9	54.7	54.4	54.7	55.0
32.5°	64.0	63.4	62.0	61.1	59.6	58.2	57.0	56.1	55.9	56.1	56.1
35°	65.2	64.9	63.4	62.0	60.8	59.3	58.5	57.6	57.6	58.2	57.9
37.5°	67.2	66.9	65.5	64.0	62.8	61.7	61.1	60.5	60.8	61.1	61.1
40°	72.4	70.7	69.5	67.8	66.6	66.0	65.5	65.5	65.7	66.0	66.0
42.5°	81.2	79.7	78.0	75.6	74.5	73.6	72.7	73.6	74.2	73.9	73.9
45°	95.1	93.4	90.8	87.3	85.2	84.1	84.1	85.2	85.8	84.9	84.4
47.5°	115.5	112.9	109.7	105.6	102.4	101.2	100.4	102.4	102.7	100.7	98.9
50°	141.4	139.0	135.0	130.6	127.7	124.5	121.9	124.8	124.8	120.4	118.7
52.5°	176.9	172.5	168.1	163.2	158.5	153.6	150.1	155.0	154.2	147.8	144.6
55°	211.5	209.2	206.2	197.8	193.4	184.4	180.4	185.6	183.3	174.2	171.9
57.5°	235.6	237.1	234.5	227.8	222.0	211.2	203.9	208.0	204.2	195.2	189.4
60°	255.4	256.9	256.0	248.4	244.6	231.0	221.1	226.0	223.1	212.6	207.1
62.5°	272.9	274.9	274.9	267.0	263.8	245.5	235.3	241.2	237.7	227.5	223.4
65°	289.7	291.2	292.1	284.2	280.4	259.2	247.6	255.1	253.7	243.2	241.2
67.5°	303.4	306.0	308.1	300.8	295.0	274.0	258.9	270.8	265.9	257.4	251.3
70°	318.5	320.3	323.5	317.1	311.6	288.0	268.8	285.1	279.8	270.2	262.1
72.5°	329.0	329.9	336.9	329.9	320.9	299.3	279.6	297.6	288.6	275.8	268.5
75°	338.6	340.1	349.1	340.1	333.4	309.2	286.5	307.5	299.0	284.2	276.6
77.5°	341.8	342.7	352.3	342.4	333.1	311.0	291.2	309.8	300.8	286.0	278.4
78°	344.4	345.0	354.3	344.4	334.8	311.3	291.8	311.0	302.2	288.0	279.8
80°	339.5	341.5	349.9	341.2	331.3	308.4	288.3	308.6	298.8	282.8	275.5
82.5°	334.5	336.0	343.0	333.9	325.2	303.7	283.6	303.1	294.4	277.5	271.4
85°	323.8	326.7	334.8	326.7	316.8	295.6	278.4	297.0	286.8	270.0	262.7
87.5°	315.0	318.5	325.8	320.0	310.1	288.3	270.2	289.7	280.1	263.6	256.6
90°	302.5	305.2	311.3	304.6	295.3	275.2	260.4	278.1	270.5	255.4	249.0
92.5°	285.7	288.3	294.4	287.4	279.3	259.2	244.9	262.7	252.8	240.3	233.3
95°	269.1	271.4	276.9	271.4	264.1	244.9	231.6	249.3	239.1	226.9	221.7
97.5°	248.1	249.9	254.8	248.7	242.6	224.3	211.8	228.1	218.8	208.9	202.5
100°	217.9	218.5	221.1	213.8	211.2	194.9	185.3	199.3	191.4	184.4	178.3
102.5°	168.1	162.6	162.3	158.8	154.8	141.7	138.2	145.7	146.3	140.5	137.0
105°	100.9	96.9	96.0	94.3	90.2	83.8	81.5	89.3	88.4	86.7	83.8
107.5°	65.2	64.0	64.0	62.5	60.2	56.4	54.7	57.9	56.7	55.9	54.7



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
110°	53.2	52.7	52.7	51.2	50.0	46.8	45.4	47.4	46.5	46.0	44.8
112.5°	47.4	46.8	46.8	46.0	44.8	42.2	41.3	43.1	41.9	41.0	40.4
115°	43.6	43.3	43.1	42.2	41.3	39.0	38.1	39.9	39.0	38.1	37.8
117.5°	41.0	40.4	40.4	39.6	38.7	36.7	36.1	37.2	36.4	35.5	35.2
120°	38.4	38.1	37.8	37.2	36.4	34.3	33.7	34.6	34.0	33.2	32.6
122.5°	36.1	35.8	35.2	34.6	33.5	31.7	31.4	32.0	31.1	30.3	30.0
125°	33.5	32.9	32.6	31.7	30.5	29.1	28.8	29.1	28.2	27.3	27.1
127.5°	30.8	30.0	29.4	28.5	27.3	25.9	25.9	26.2	25.6	24.7	24.4
130°	27.3	26.8	25.9	25.0	23.9	22.7	22.7	23.0	22.4	21.8	21.8
132.5°	23.6	22.7	22.1	21.2	20.4	19.5	19.5	19.5	19.2	18.9	18.6
135°	19.5	18.9	18.0	17.5	16.6	16.0	16.0	16.3	16.0	15.4	15.4
137.5°	15.1	14.5	14.0	13.7	13.1	12.5	12.5	12.8	12.5	12.2	12.2
140°	11.6	11.1	10.8	10.5	9.9	9.6	9.6	9.6	9.6	9.3	9.3
142.5°	9.0	8.7	8.4	8.1	7.9	7.3	7.6	7.6	7.6	7.3	7.3
145°	6.7	6.4	6.1	5.8	5.8	5.5	5.5	5.5	5.5	5.5	5.2
147.5°	4.7	4.4	4.1	3.8	3.8	3.8	3.8	3.8	3.8	3.5	3.5
150°	2.6	2.3	2.0	1.7	1.7	1.7	1.7	2.0	1.7	1.7	1.7
152.5°	0.6	0.3	0.3	0.3	0.3	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	0.3	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)