

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: McGRAW-EDISON

Report Number: P271428

Luminaire Tested: **ISC-AF-XXX-LED-E1-T3-7027-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271428
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISC-AF-XXX-LED-E1-T3-7027-XXB
Description: IMPACT ELITE LED CYLINDER LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 550.6 lumens
Efficiency: N/A
Efficacy: 42.4 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B0 - U0 - G0

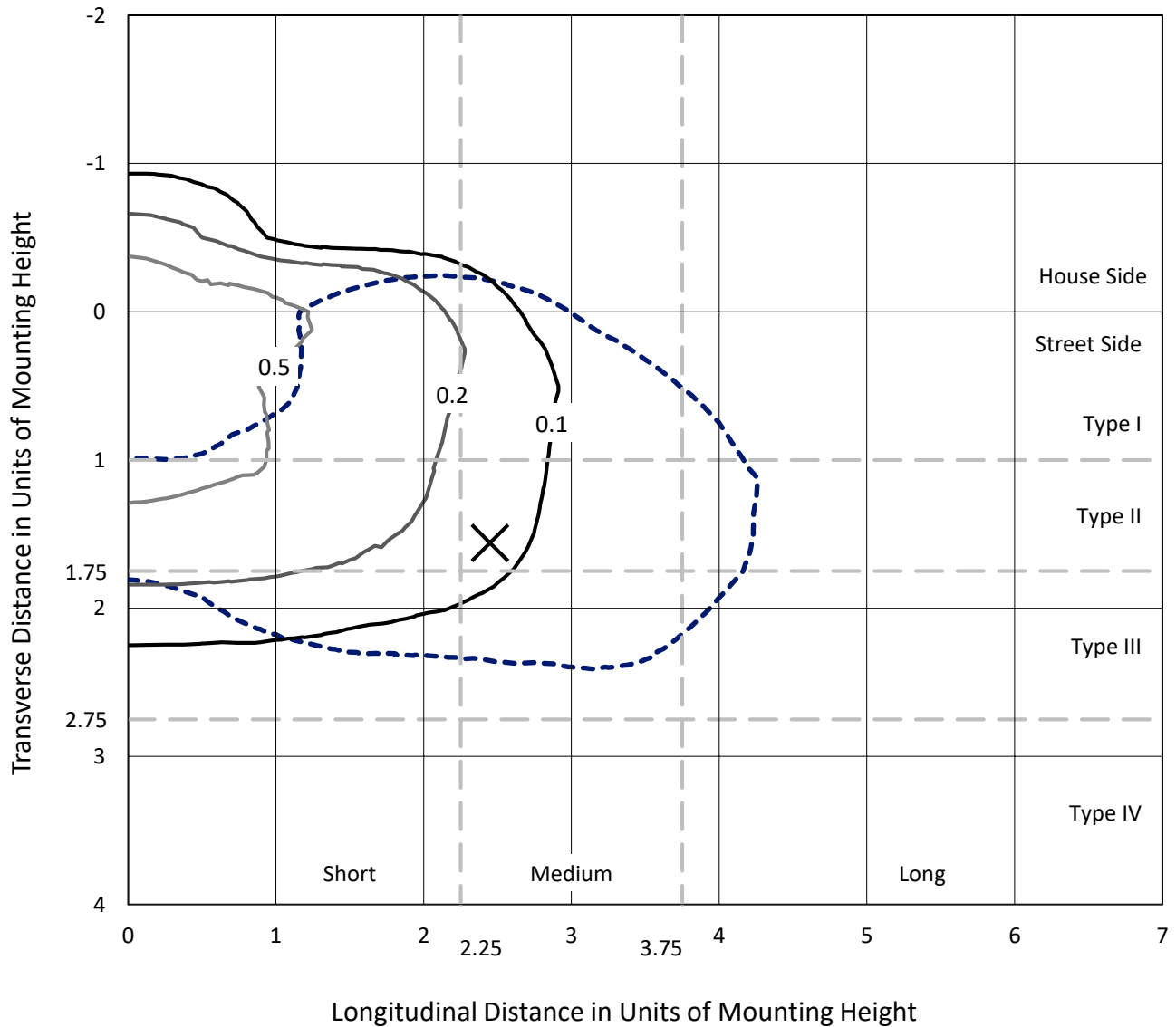
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

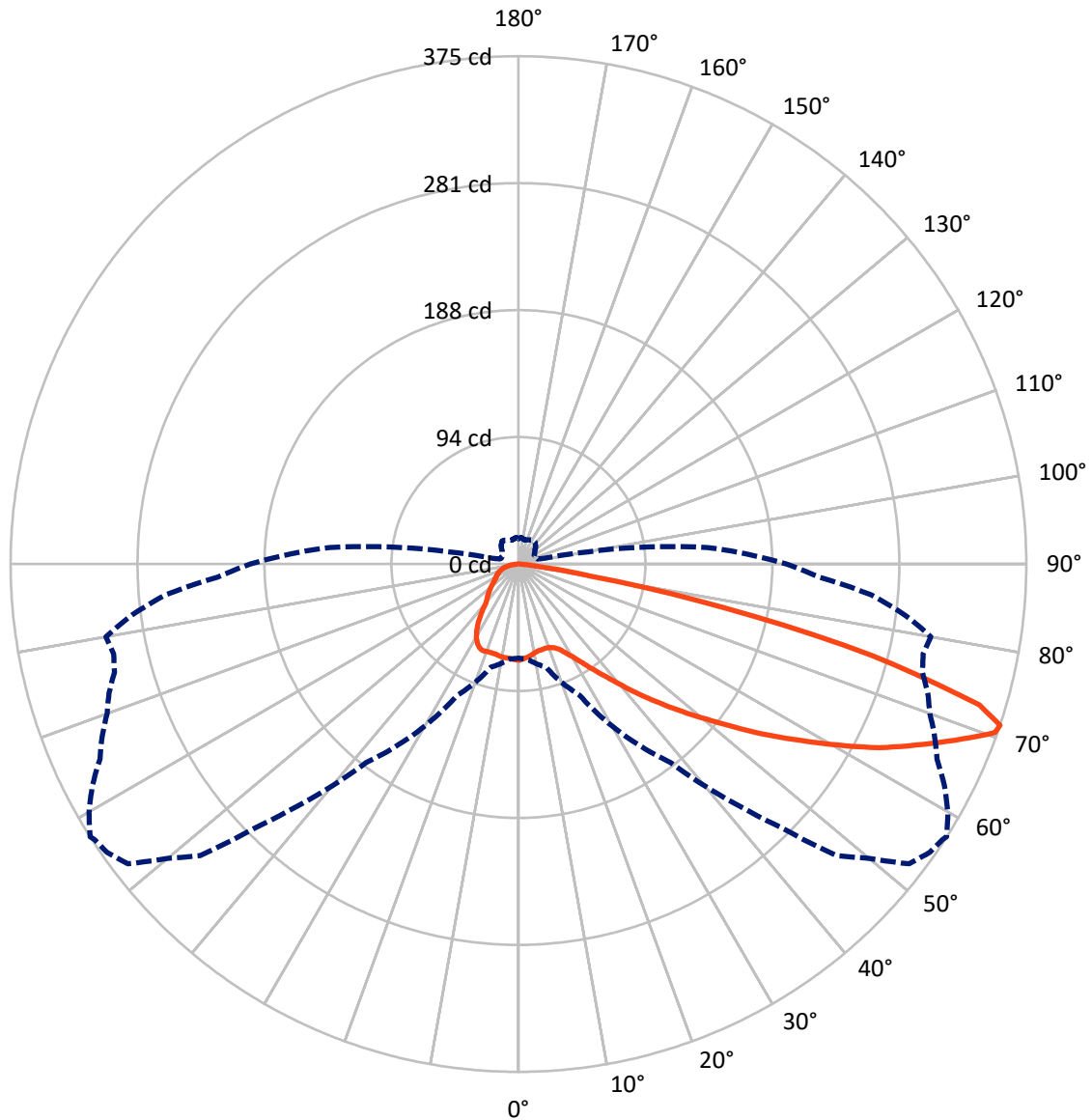
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.7 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	119.9	0.0	119.9
	% Fixture	21.8	0.0	21.8
Street Side	Lumens	430.7	0.0	430.7
	% Fixture	78.2	0.0	78.2
Total	Lumens	550.6	0.0	550.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.7	1.2
10°-20°	19.3	3.5
20°-30°	32.0	5.8
30°-40°	51.0	9.3
40°-50°	82.8	15.0
50°-60°	124.2	22.6
60°-70°	148.1	26.9
70°-80°	80.0	14.5
80°-90°	6.5	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	550.6	100.0
0°-180°	550.6	100.0



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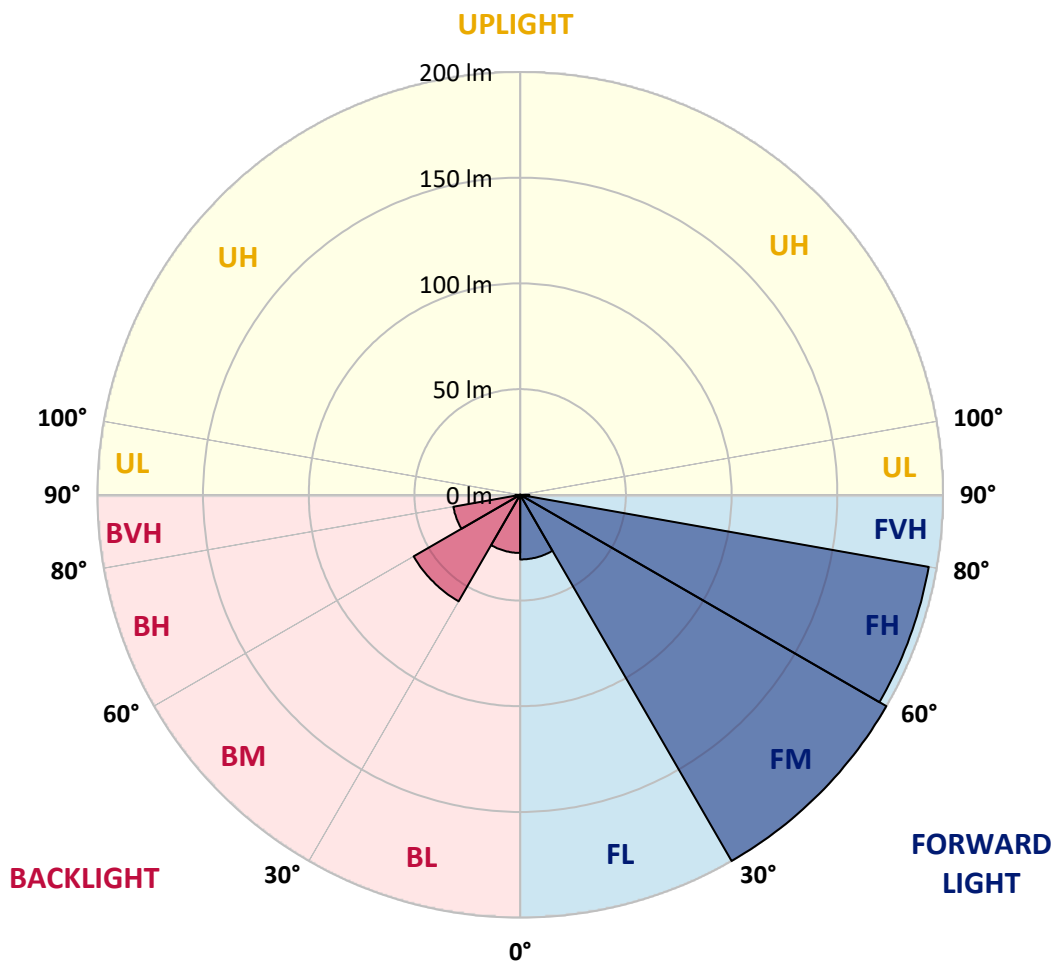
CATALOG NUMBER: ISC-AF-XXX-LED-E1-T3-7027-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	30.5	5.5			
FM	(30°-60°)	199.8	36.3			
FH	(60°-80°)	196.1	35.6			G0/660
FVH	(80°-90°)	4.3	0.8			G0/10
BL	(0°-30°)	27.5	5.0	B0/110		
BM	(30°-60°)	58.1	10.6	B0/220		
BH	(60°-80°)	32.1	5.8	B0/110		G0/110
BVH	(80°-90°)	2.2	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G0

Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
2.5°	71.1	71.0	70.8	70.8	70.8	70.6	70.1	70.2	70.8	70.3	71.0
5°	71.0	70.6	70.3	70.3	70.3	69.9	69.7	69.5	70.6	69.7	70.3
7.5°	68.9	68.9	68.6	68.9	69.3	68.8	68.5	68.6	69.5	68.6	69.5
10°	67.6	67.1	66.9	66.9	67.4	66.6	66.3	66.6	67.7	66.6	67.8
12.5°	66.9	67.1	66.6	66.6	66.5	65.5	65.5	65.5	66.5	65.5	66.6
15°	67.8	67.7	67.1	66.7	66.3	65.5	65.3	65.5	66.3	65.1	66.5
17.5°	69.1	69.1	68.2	67.4	66.7	66.0	66.0	65.7	66.3	65.5	66.5
20°	72.4	71.9	70.6	69.1	67.7	67.4	66.6	66.6	66.9	66.3	66.7
22.5°	78.1	77.5	75.3	72.7	70.2	69.3	68.9	68.8	68.5	68.0	68.0
25°	85.5	84.6	82.0	78.8	74.8	74.0	73.3	72.8	71.4	71.4	70.6
27.5°	93.5	92.5	89.9	86.2	81.4	80.2	79.3	78.6	76.4	76.4	74.8
30°	102.6	101.5	98.3	94.2	88.7	88.2	87.0	85.9	82.9	82.7	80.6
32.5°	113.2	111.7	108.4	103.1	97.2	97.4	95.3	94.6	90.8	91.0	88.0
35°	125.1	123.6	120.2	113.4	107.2	107.7	105.9	104.7	99.9	99.9	96.7
37.5°	137.9	137.9	133.7	125.8	118.3	119.6	117.4	116.2	111.3	112.1	107.2
40°	152.2	153.0	148.4	139.3	131.7	132.3	130.6	129.2	123.6	124.9	119.6
42.5°	167.1	168.6	164.6	155.1	146.6	148.4	145.7	144.3	138.2	140.9	134.7
45°	188.6	189.0	181.5	172.5	165.4	167.1	163.2	162.6	155.1	158.1	151.9
47.5°	202.3	201.4	195.9	190.5	186.3	189.5	186.1	185.2	176.7	178.7	169.9
50°	211.6	212.1	208.0	207.4	208.0	214.2	213.8	211.9	201.8	200.3	189.5
52.5°	219.9	217.6	216.9	221.9	229.8	237.1	239.9	237.6	226.6	222.5	211.9
55°	218.5	215.1	218.8	231.2	246.7	257.9	258.4	256.6	246.7	245.1	233.6
57.5°	208.7	209.3	217.2	234.9	261.0	272.6	274.7	272.6	264.6	266.0	256.5
60°	195.0	196.5	208.9	231.7	272.5	282.6	283.4	285.8	280.3	284.1	277.6
62.5°	174.6	176.7	192.5	223.4	264.6	279.5	287.7	293.3	292.2	300.9	297.5
65°	160.4	160.4	175.9	214.0	256.6	276.4	288.9	299.0	300.6	314.4	313.1
67.5°	134.0	134.9	148.3	187.6	247.2	269.4	288.4	305.6	314.4	336.1	337.2
70°	92.7	93.5	102.2	133.8	199.7	218.6	246.6	274.7	300.9	333.8	350.9
71°	69.5	70.3	78.9	106.8	169.2	184.8	213.8	243.0	276.0	318.7	338.0
72.5°	34.0	34.6	42.8	68.6	117.7	137.7	154.5	182.4	217.4	266.3	293.7
75°	15.8	16.0	17.9	24.7	44.9	53.4	60.9	78.9	100.6	143.5	176.7
77.5°	11.7	11.7	12.8	16.2	23.3	23.6	23.3	23.9	28.7	41.1	61.8
80°	8.5	8.5	9.3	10.9	15.5	15.5	14.9	15.1	14.6	15.1	17.1
82.5°	5.6	5.6	6.0	6.6	9.4	9.4	9.2	9.2	8.7	8.5	9.3
85°	3.2	3.4	3.6	3.1	4.0	3.9	3.4	3.9	3.6	3.2	4.0
87.5°	0.0	0.0	0.0	0.0	0.2	0.0	0.0	0.0	0.2	0.0	0.2
90°	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):

	52.5°	55°	57°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
2.5°	70.2	70.8	70.8	70.1	70.6	70.1	70.3	69.9	70.3	69.5	70.6
5°	69.7	70.2	70.2	69.1	70.2	69.1	70.1	68.8	70.1	68.6	70.1
7.5°	68.2	69.5	69.5	68.0	69.3	68.2	69.3	68.0	69.1	67.6	69.3
10°	66.6	67.8	68.0	66.6	68.0	66.7	68.5	66.7	68.5	66.6	68.6
12.5°	65.5	66.9	67.4	65.7	67.6	65.8	67.8	66.0	67.8	65.8	68.2
15°	65.3	66.6	66.9	65.5	67.1	65.3	67.7	65.5	67.8	65.7	68.5
17.5°	65.5	66.6	66.9	65.3	66.9	65.5	67.6	65.7	67.8	65.8	68.5
20°	66.0	66.7	66.7	65.8	67.1	65.8	67.6	65.7	68.0	66.3	68.6
22.5°	67.7	67.8	67.8	67.1	67.8	66.9	68.2	66.9	68.6	67.1	69.3
25°	70.3	70.2	69.9	69.7	69.9	69.3	70.1	69.1	70.8	69.5	71.7
27.5°	75.2	74.4	74.0	74.0	73.9	74.0	74.0	73.8	74.4	74.0	75.5
30°	80.9	79.7	79.1	79.7	78.9	79.7	79.5	79.3	80.1	79.7	80.9
32.5°	88.7	86.3	86.1	87.1	85.7	87.0	85.9	86.3	87.0	87.3	88.0
35°	97.5	95.0	94.6	95.7	94.1	95.8	94.6	95.3	95.7	96.6	97.2
37.5°	108.1	104.9	104.5	105.9	103.8	105.7	103.8	106.1	105.6	106.8	107.3
40°	120.8	117.2	115.9	117.9	115.3	117.0	115.2	117.5	117.0	119.6	120.0
42.5°	136.5	131.2	129.9	131.9	128.1	128.5	127.2	129.9	129.5	132.9	133.5
45°	152.6	146.2	144.4	146.4	142.1	143.2	140.9	143.9	143.7	146.4	148.6
47.5°	170.7	162.9	160.4	162.6	157.3	158.6	156.5	159.6	159.7	162.9	165.0
50°	189.5	181.2	178.1	180.1	175.2	176.1	173.9	177.8	177.5	181.7	183.3
52.5°	209.8	201.4	199.1	200.0	194.1	195.2	193.3	198.1	197.0	199.5	202.8
55°	232.3	222.7	219.9	222.7	215.8	217.2	214.9	219.2	217.4	220.6	221.6
57.5°	255.4	246.0	243.8	245.8	239.2	240.4	237.2	240.8	239.4	241.6	243.0
60°	280.0	271.4	269.2	271.4	265.1	265.2	260.0	263.8	261.6	264.3	263.8
62.5°	303.4	296.2	295.6	298.7	290.7	289.8	283.4	286.2	283.1	284.9	282.7
65°	323.5	319.3	320.0	322.5	315.5	313.3	306.1	307.4	302.9	302.9	300.1
67.5°	349.6	345.1	345.1	347.3	338.4	332.7	322.7	321.4	314.0	312.5	306.1
70°	371.4	372.8	371.3	373.2	362.6	351.1	337.9	331.5	321.6	316.9	309.5
71°	363.6	370.9	373.4	375.0	366.1	354.7	341.0	332.7	323.3	316.9	308.8
72.5°	328.2	345.8	355.8	355.8	357.0	349.6	336.3	327.4	316.7	308.4	300.9
75°	230.0	258.7	271.6	270.1	279.6	282.9	284.0	280.1	274.2	262.1	256.8
77.5°	102.5	134.9	154.5	154.6	164.7	173.7	180.8	188.3	185.6	179.8	179.4
80°	23.3	42.2	54.0	54.5	63.9	72.0	77.0	84.4	85.2	77.0	72.2
82.5°	10.0	11.8	13.5	13.3	16.3	19.7	23.3	25.3	24.3	20.2	19.1
85°	4.2	5.5	5.7	5.5	6.7	7.5	8.7	8.9	10.4	9.3	9.8
87.5°	0.0	0.2	0.2	0.0	0.4	0.0	0.4	0.2	0.9	0.4	1.1
90°	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):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
2.5°	69.9	70.8	69.9	70.8	70.2	70.8	70.6	70.8	69.9	70.8	69.7
5°	68.6	70.1	68.8	69.9	68.8	70.1	70.1	70.1	68.8	70.2	68.9
7.5°	67.6	69.1	67.6	69.1	68.0	69.3	69.3	69.9	68.5	70.1	68.2
10°	66.5	68.5	66.5	68.8	66.9	68.9	69.1	69.5	67.6	69.7	67.8
12.5°	65.8	68.5	66.0	68.5	66.3	68.9	69.1	69.5	67.4	70.1	67.7
15°	65.8	68.6	66.0	68.6	66.3	68.9	69.3	69.7	67.4	70.2	67.7
17.5°	65.8	68.6	66.5	68.8	66.6	69.1	69.5	69.9	67.7	70.2	68.0
20°	66.5	68.9	66.7	69.3	67.1	69.7	69.9	70.3	68.0	70.3	68.5
22.5°	67.7	69.9	68.0	70.3	68.8	70.8	71.0	71.4	69.7	71.7	70.1
25°	69.9	72.2	70.8	72.7	71.7	73.3	73.8	73.8	72.9	74.2	73.8
27.5°	74.4	76.3	75.2	76.7	76.3	77.5	77.5	77.6	78.2	78.6	79.1
30°	80.2	81.5	81.2	82.0	82.3	82.9	82.9	84.0	86.2	84.0	83.8
32.5°	88.0	88.8	88.9	89.3	90.0	90.5	91.3	92.5	94.4	89.3	87.7
35°	97.6	97.8	98.5	98.9	100.3	100.6	102.9	102.0	102.0	94.1	90.5
37.5°	108.2	108.2	109.8	109.8	112.7	113.0	115.3	110.6	107.9	97.5	92.4
40°	121.5	121.3	123.0	123.3	127.5	127.6	127.3	117.0	111.2	98.5	91.4
42.5°	135.6	136.0	138.2	139.0	142.1	143.2	138.6	121.3	112.6	97.8	88.4
45°	150.8	151.9	154.6	156.7	159.9	158.6	147.7	123.3	111.0	94.6	82.5
47.5°	167.5	168.6	170.8	174.6	176.1	174.6	155.1	124.1	108.4	89.5	73.8
50°	184.4	186.3	189.5	194.8	195.7	191.9	164.3	126.8	106.4	84.2	63.7
52.5°	203.6	205.4	209.0	218.1	216.3	208.9	175.0	131.9	107.0	80.9	55.2
55°	223.8	226.4	233.4	242.4	238.3	226.6	186.8	139.3	109.1	77.5	45.6
57.5°	245.1	247.8	257.1	267.7	259.8	244.1	198.9	145.2	110.2	70.3	35.3
60°	266.2	270.0	282.0	290.7	278.6	259.0	209.6	149.0	107.3	57.0	27.3
62.5°	285.4	291.6	305.1	309.8	290.3	268.5	215.4	146.2	95.5	39.3	22.0
65°	299.0	307.1	315.8	315.2	288.2	265.4	211.0	133.7	71.1	26.1	18.8
67.5°	305.0	312.3	314.4	305.1	272.5	251.7	195.4	107.7	41.0	19.4	16.3
70°	307.1	313.5	302.2	279.8	241.9	218.3	159.7	68.6	22.4	15.8	14.2
71°	306.1	309.3	287.7	261.6	222.5	197.8	140.0	52.2	19.1	14.7	13.5
72.5°	293.7	289.4	256.4	227.2	188.6	163.5	109.0	32.9	15.6	13.3	12.6
75°	240.2	220.4	188.6	161.2	128.5	102.8	59.1	16.9	12.6	11.5	10.9
77.5°	157.0	139.9	113.6	92.4	70.2	53.3	24.3	11.7	10.0	9.6	9.4
80°	56.1	44.9	34.0	29.8	22.5	18.5	11.8	8.9	7.8	8.1	7.8
82.5°	15.8	14.6	12.6	11.7	10.2	10.0	7.6	6.7	6.2	6.6	6.4
85°	7.8	6.7	4.9	4.7	3.6	4.2	3.9	4.5	4.0	4.2	3.9
87.5°	0.6	0.7	0.2	0.6	0.0	0.6	0.7	0.9	0.2	0.7	0.6
90°	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):

	110°	112.5°	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°
0°	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1	71.1
2.5°	71.0	70.2	71.1	70.2	71.1	70.6	71.1	70.6	71.1	71.4	71.4
5°	70.6	69.3	71.0	70.1	71.1	70.2	71.0	70.3	71.3	71.7	72.0
7.5°	70.3	69.1	70.8	69.5	71.1	69.9	71.0	70.2	71.3	71.7	72.4
10°	70.2	68.6	70.8	68.9	71.0	69.7	71.0	69.9	71.1	71.4	71.7
12.5°	70.2	68.5	70.8	68.8	71.0	69.1	70.8	69.1	71.0	70.8	70.2
15°	70.3	68.0	70.8	68.5	70.8	68.6	70.6	68.5	70.2	69.7	69.3
17.5°	70.3	68.0	70.6	68.2	70.3	68.5	70.1	68.0	69.7	69.5	68.9
20°	70.8	68.5	70.6	68.9	70.6	68.6	69.9	68.0	69.3	68.2	66.0
22.5°	71.9	70.2	71.9	70.2	71.0	69.1	69.7	67.6	67.4	65.5	62.1
25°	74.4	73.8	73.3	71.3	70.8	68.5	67.7	65.1	64.2	61.4	56.8
27.5°	77.6	76.1	73.9	71.4	69.1	66.3	64.2	62.3	60.3	56.8	50.8
30°	79.9	77.5	72.9	69.7	65.3	62.9	59.5	57.3	54.3	50.0	44.2
32.5°	81.4	77.6	70.8	66.9	61.2	58.0	53.4	51.1	46.9	42.8	38.5
35°	81.7	77.0	67.8	63.7	56.1	52.6	46.6	44.1	40.1	37.1	35.4
37.5°	80.2	74.4	63.3	57.9	49.5	45.5	39.9	38.0	35.7	34.6	33.9
40°	77.3	69.5	56.2	49.9	41.3	38.2	35.3	35.3	34.0	33.5	32.2
42.5°	72.0	62.3	47.1	41.0	35.1	34.6	32.9	33.7	32.8	32.4	30.5
45°	63.9	51.8	38.0	34.3	31.7	32.0	30.9	31.7	31.1	30.9	28.7
47.5°	53.3	41.3	32.0	30.7	28.9	29.5	28.6	29.5	28.9	29.1	27.5
50°	42.6	33.5	28.4	27.7	26.4	26.7	26.2	27.1	26.9	27.7	26.7
52.5°	34.0	28.6	25.3	24.7	24.1	24.3	24.1	25.0	25.2	26.6	26.6
55°	28.2	24.5	22.7	22.5	21.8	22.0	22.2	23.1	23.9	25.6	26.6
57.5°	24.3	22.0	20.8	20.5	20.2	20.4	20.8	21.8	22.5	25.0	26.9
60°	21.3	20.0	19.1	19.1	18.8	19.1	19.4	20.5	21.5	24.3	26.2
62.5°	19.1	18.1	17.7	17.9	17.7	18.0	18.3	19.4	20.5	23.1	25.2
65°	17.1	16.6	16.2	16.3	16.3	16.9	17.2	18.3	19.2	21.6	24.3
67.5°	15.5	15.1	14.9	15.1	15.3	15.8	16.3	17.1	17.9	20.0	23.0
70°	14.2	13.8	13.8	13.8	14.0	14.6	15.3	15.6	16.3	18.8	21.5
71°	13.5	13.3	13.3	13.3	13.5	14.0	14.7	15.1	15.8	18.1	20.8
72.5°	12.6	12.6	12.8	12.6	12.9	13.0	13.8	14.2	15.1	17.4	19.9
75°	11.0	11.0	11.3	11.3	11.7	11.7	12.1	12.6	13.7	15.6	17.9
77.5°	9.8	9.8	10.2	10.0	10.0	9.6	10.4	10.7	11.7	13.7	15.8
80°	8.4	8.2	8.5	8.1	7.8	7.5	8.1	8.5	10.0	11.3	11.7
82.5°	6.6	6.0	6.2	5.6	5.6	5.3	5.7	6.0	6.8	8.2	8.9
85°	4.0	3.2	3.6	3.1	3.4	3.1	3.2	3.4	4.2	5.1	4.9
87.5°	0.9	0.6	0.7	0.2	0.6	0.0	0.6	0.2	0.6	0.2	0.0
90°	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):

	155°	165°	175°	180°
0°	71.1	71.1	71.1	71.1
2.5°	71.9	71.7	71.9	71.7
5°	72.8	72.8	72.9	73.1
7.5°	72.9	73.3	73.8	73.5
10°	71.7	71.3	71.7	71.3
12.5°	69.7	69.3	69.7	69.7
15°	69.5	69.3	69.5	69.5
17.5°	68.2	67.4	66.9	66.7
20°	64.6	62.9	62.6	62.1
22.5°	59.5	57.1	56.4	55.9
25°	53.3	50.0	48.8	48.0
27.5°	46.6	43.3	42.0	42.0
30°	41.3	38.8	37.5	37.5
32.5°	37.5	36.0	35.1	35.3
35°	34.3	33.5	32.9	33.1
37.5°	32.4	30.9	29.6	29.6
40°	30.5	28.6	26.9	26.9
42.5°	28.6	26.7	25.6	25.4
45°	26.7	25.4	24.5	24.3
47.5°	25.8	24.7	23.9	23.6
50°	25.4	24.3	23.1	23.1
52.5°	25.8	25.0	22.5	22.5
55°	26.6	26.1	22.5	22.2
57.5°	25.8	25.0	22.7	22.2
60°	24.3	22.7	22.4	22.0
62.5°	23.1	21.6	22.4	22.2
65°	22.2	21.1	22.7	22.4
67.5°	21.3	20.2	22.7	22.0
70°	20.2	19.1	20.8	19.4
71°	19.7	18.3	19.7	18.5
72.5°	18.8	17.2	17.7	16.9
75°	16.9	15.5	15.1	14.9
77.5°	14.0	12.4	11.8	11.7
80°	10.7	9.6	9.6	9.2
82.5°	8.1	7.1	6.8	6.0
85°	4.2	3.2	2.8	2.8
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)