

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: P271553

Luminaire Tested: **ISS-AF-XXX-LED-E1-SL3-7027-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271553
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29762)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: ISS-AF-XXX-LED-E1-SL3-7027-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCUCLED OPTICS-TYPE III W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 513.3 lumens
Efficiency: N/A
Efficacy: 39.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Non-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

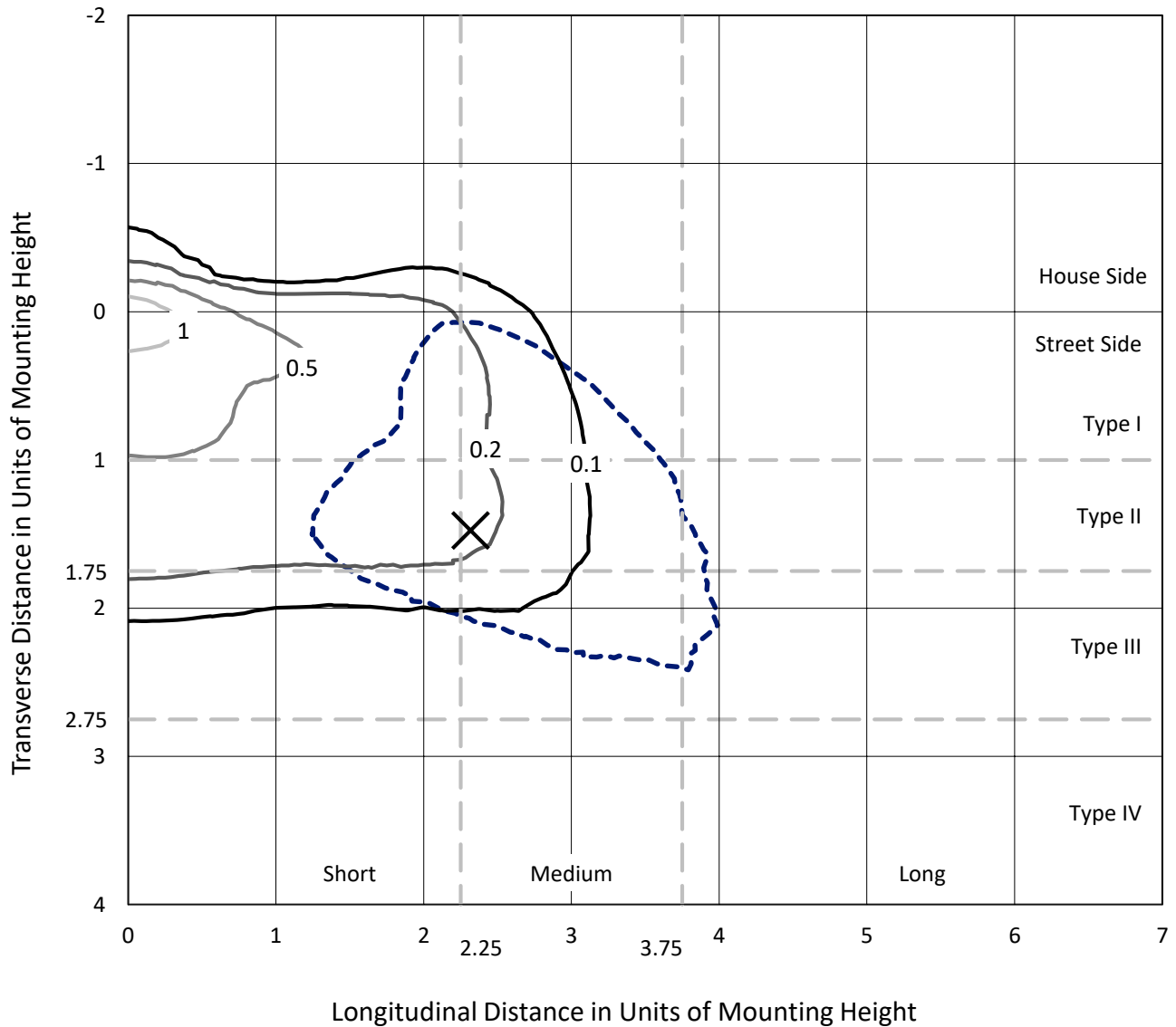


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Iso-Footcandle Lines of Horizontal Illumination

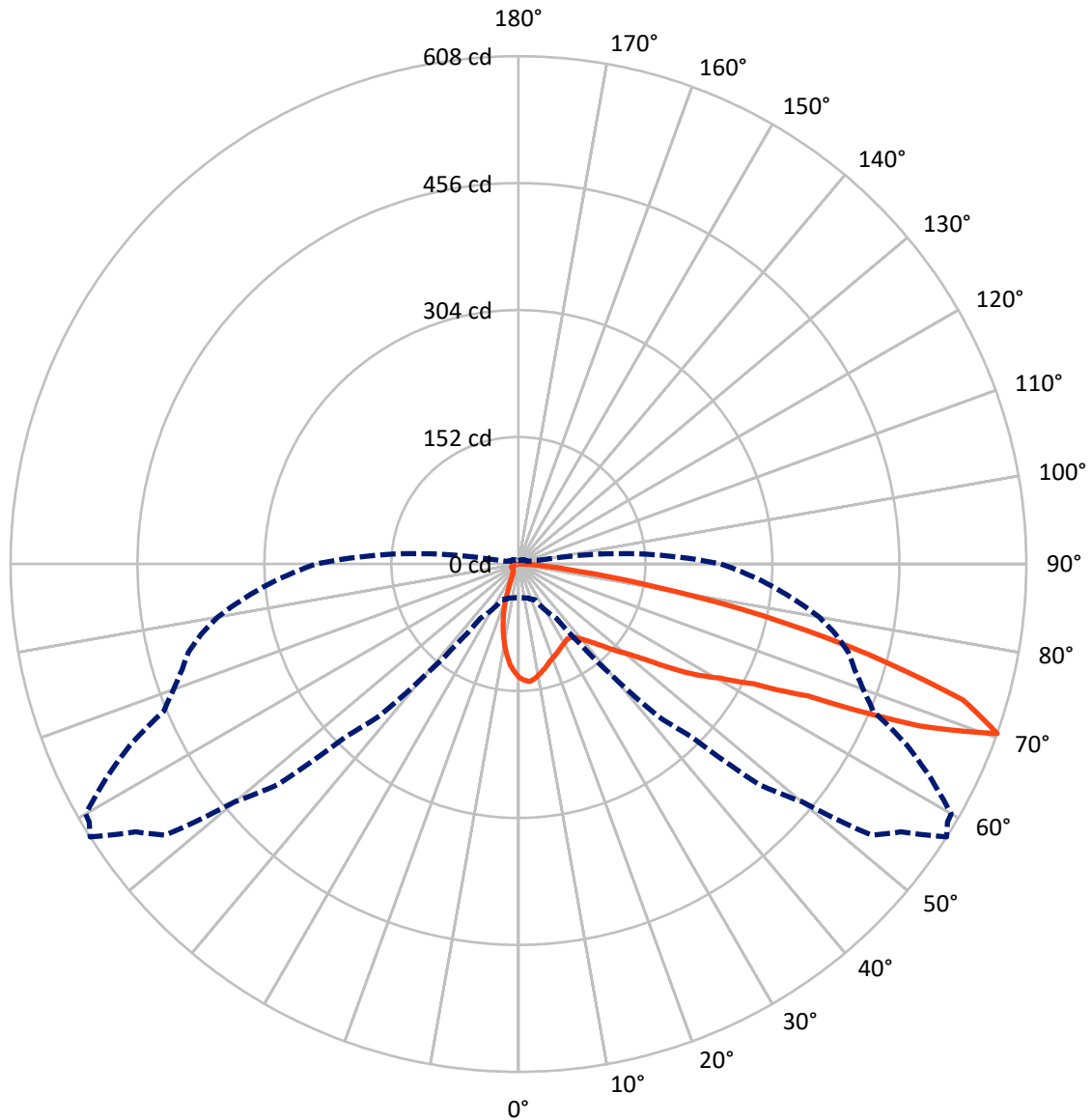
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.4 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	63.5	0.0	63.5
	% Fixture	12.4	0.0	12.4
Street Side	Lumens	449.8	0.0	449.8
	% Fixture	87.6	0.0	87.6
Total	Lumens	513.3	0.0	513.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	2.3
10°-20°	25.5	5.0
20°-30°	32.0	6.2
30°-40°	41.8	8.1
40°-50°	62.8	12.2
50°-60°	99.2	19.3
60°-70°	143.0	27.9
70°-80°	88.5	17.2
80°-90°	8.8	1.7
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°	513.3	100.0
0°-180°	513.3	100.0



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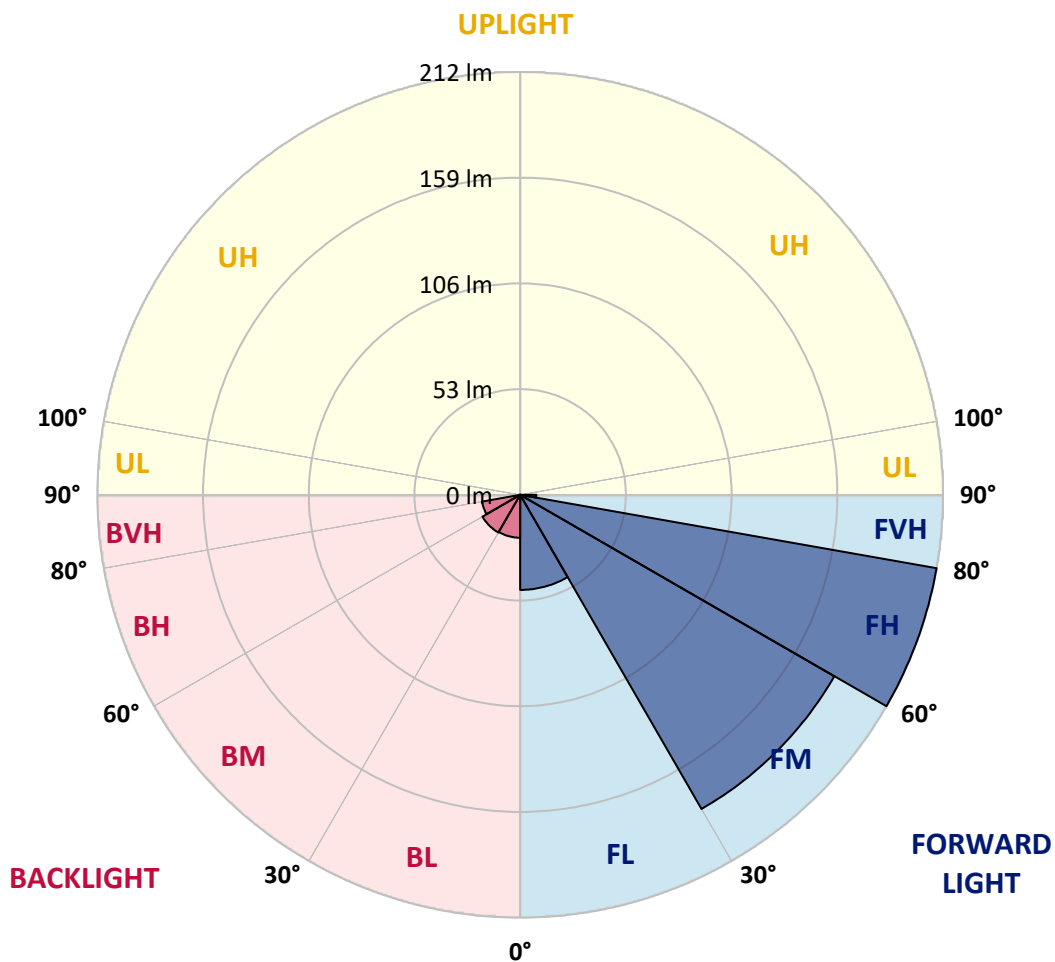
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SL3-7027-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	47.7	9.3			
FM	(30°-60°)	182.0	35.4			
FH	(60°-80°)	212.1	41.3			G0/660
FVH	(80°-90°)	8.1	1.6			G0/10
BL	(0°-30°)	21.5	4.2	B0/110		
BM	(30°-60°)	21.8	4.3	B0/220		
BH	(60°-80°)	19.4	3.8	B0/110		G0/110
BVH	(80°-90°)	0.7	0.1			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°	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8
2.5°	142.7	142.4	142.0	141.3	140.9	141.3	140.9	140.5	139.7	140.2	139.9
5°	142.2	142.7	141.9	141.3	142.2	142.7	141.9	141.9	141.1	141.9	141.6
7.5°	135.1	135.4	135.6	135.4	137.7	137.7	137.4	137.7	137.9	138.2	138.4
10°	126.2	126.4	126.8	127.3	130.3	130.5	130.7	131.2	131.7	132.1	133.1
12.5°	117.3	117.7	118.4	120.2	123.2	123.7	124.2	124.8	125.7	126.2	128.2
15°	109.9	110.0	110.7	112.7	117.3	118.1	118.6	119.3	121.1	121.1	123.2
17.5°	102.9	103.2	103.8	106.2	110.7	112.2	113.3	113.6	116.0	116.6	119.1
20°	97.6	97.7	97.9	100.3	104.3	106.6	107.4	109.0	110.7	112.2	114.4
22.5°	94.7	95.0	94.5	95.4	99.0	101.8	102.9	104.3	105.1	107.7	109.0
25°	95.0	95.1	94.1	93.6	95.4	98.4	99.3	100.7	100.3	104.0	104.0
27.5°	96.7	97.1	96.2	94.5	94.7	97.1	97.6	98.2	97.1	100.7	100.0
30°	100.3	100.7	99.6	98.4	96.4	97.7	97.7	97.7	95.8	98.9	97.6
32.5°	104.1	104.6	104.1	103.2	100.7	101.1	100.3	100.0	97.3	99.8	97.7
35°	109.9	110.0	110.2	110.2	106.6	107.3	105.3	104.1	101.6	103.7	100.9
37.5°	116.6	116.6	117.9	118.4	114.4	114.4	112.2	110.7	108.3	109.1	106.4
40°	122.6	123.1	126.0	127.6	124.1	122.6	120.7	119.5	117.7	117.7	114.9
42.5°	129.4	130.5	134.0	137.1	135.1	132.9	131.2	129.9	129.0	128.7	125.9
45°	138.1	139.3	143.2	146.1	146.6	145.0	143.5	142.2	141.6	141.1	138.6
47.5°	147.7	149.0	152.4	155.9	158.4	158.1	156.5	155.1	155.8	155.4	153.7
50°	158.4	159.2	161.3	165.4	171.1	172.5	172.1	171.1	172.3	172.3	170.9
52.5°	167.1	167.5	169.2	173.9	183.5	186.5	188.8	190.7	192.5	193.7	192.7
55°	174.8	174.8	175.0	181.0	195.4	200.1	205.4	209.2	211.6	216.0	217.7
57.5°	187.6	186.7	186.5	192.9	209.7	214.5	222.2	227.7	231.0	239.8	239.7
60°	184.0	184.3	190.9	209.7	238.8	243.1	250.1	255.8	262.0	268.6	269.2
62.5°	158.6	159.6	169.4	197.4	257.4	280.1	301.4	317.6	326.7	332.6	324.6
65°	111.1	113.3	126.6	160.9	237.0	272.1	305.9	343.3	372.1	416.7	429.6
67.5°	55.3	57.0	59.2	84.4	177.1	226.5	272.8	324.0	362.3	427.9	464.4
70°	39.7	40.4	42.1	47.3	79.2	118.6	173.2	246.4	291.4	390.3	442.1
72.5°	30.8	31.5	33.7	41.1	52.4	57.9	68.8	112.6	167.4	269.5	339.5
75°	23.9	25.0	28.0	37.2	50.5	53.6	54.1	58.1	66.3	119.7	190.4
77.5°	16.8	17.0	20.0	32.1	49.0	55.0	54.1	54.1	55.2	61.1	81.4
80°	11.0	11.3	13.3	22.2	43.0	50.0	55.3	52.8	53.0	53.9	55.3
82.5°	5.7	6.2	7.8	13.5	25.2	33.9	46.0	48.1	47.3	48.3	47.9
85°	1.7	1.7	2.8	5.1	12.4	13.1	20.4	27.8	28.4	32.2	34.5
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	1.7	1.9
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°	57.5°	59°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8
2.5°	140.2	139.5	139.3	139.0	139.1	138.6	138.4	137.7	137.7	137.4	136.9
5°	141.1	140.5	141.1	139.9	140.0	139.5	138.6	138.6	137.9	137.4	136.3
7.5°	138.6	138.6	138.8	138.1	138.2	138.1	136.9	136.8	135.6	135.6	134.4
10°	133.8	133.8	134.6	134.0	134.3	134.0	133.5	133.3	132.9	132.9	131.0
12.5°	128.4	129.4	130.5	130.1	130.1	130.4	130.4	130.5	130.4	130.3	128.5
15°	123.9	125.5	126.6	126.4	126.6	127.5	127.9	128.1	128.5	128.4	126.9
17.5°	119.7	121.5	122.3	123.1	123.7	124.3	125.5	126.0	126.8	126.6	125.1
20°	115.8	117.5	119.1	120.0	120.2	121.7	123.0	124.5	125.0	125.3	123.4
22.5°	111.7	113.3	116.6	116.0	117.3	120.0	120.7	123.1	123.1	124.3	121.8
25°	108.3	108.5	113.6	112.7	113.8	118.8	119.3	123.4	122.3	124.2	121.3
27.5°	104.9	104.7	110.9	109.9	111.1	117.9	118.1	124.1	123.0	125.1	121.3
30°	102.4	101.8	109.0	106.7	108.5	116.9	117.0	124.5	123.7	126.6	122.6
32.5°	101.8	100.9	107.1	105.4	107.3	116.0	117.0	126.6	125.5	129.2	124.1
35°	104.1	102.8	108.0	106.6	108.0	116.4	117.9	129.6	128.4	132.6	127.5
37.5°	108.5	107.4	111.7	110.4	111.5	118.9	120.5	133.7	133.5	138.6	132.8
40°	116.2	115.2	118.6	116.6	117.5	124.3	125.1	139.3	139.9	146.1	140.2
42.5°	126.6	124.8	127.5	125.1	126.4	132.6	131.8	146.2	148.0	156.5	149.7
45°	139.9	137.5	139.1	136.6	137.5	142.8	140.8	155.6	157.1	167.7	161.8
47.5°	154.5	151.5	153.5	150.3	150.7	156.5	152.8	166.6	169.2	182.4	176.7
50°	171.9	168.2	168.8	165.7	166.1	171.8	167.7	180.3	183.4	198.2	193.0
52.5°	194.3	188.8	188.8	184.7	184.8	190.5	185.6	196.5	200.0	215.0	211.4
55°	223.9	219.5	218.6	214.2	212.7	213.8	206.9	214.5	218.4	232.4	229.7
57.5°	247.3	246.8	249.5	243.4	241.8	242.3	233.5	234.0	238.4	249.3	250.3
60°	275.9	276.9	277.1	272.1	271.6	266.4	257.5	256.1	261.6	269.0	271.8
62.5°	321.4	320.5	315.9	312.3	308.7	295.0	290.2	282.1	289.7	293.9	299.9
65°	419.3	409.8	380.6	383.1	374.1	344.4	340.2	324.0	336.1	336.1	347.6
67.5°	516.2	534.7	516.9	517.2	496.7	443.0	430.0	397.8	404.5	396.7	402.5
70°	532.8	558.7	607.5	598.8	597.7	556.4	512.8	459.1	438.9	422.1	408.7
72.5°	458.5	484.5	556.1	536.2	543.7	556.2	510.9	470.6	425.4	404.1	375.0
75°	322.5	360.1	432.7	422.3	427.9	448.5	409.5	404.9	352.6	338.4	293.6
77.5°	172.8	219.3	300.8	288.0	290.3	302.1	261.6	253.1	202.7	188.6	137.9
80°	77.7	107.9	168.8	154.6	150.5	143.7	105.8	83.5	51.0	33.9	23.4
82.5°	51.6	53.6	74.9	64.9	60.6	50.0	32.4	19.1	15.1	12.8	12.1
85°	34.7	31.7	31.5	27.8	25.8	20.4	15.1	9.4	7.8	6.6	6.0
87.5°	2.0	1.3	1.9	2.0	1.4	1.3	0.9	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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8
2.5°	136.0	136.0	135.8	134.6	133.8	133.5	132.2	132.1	131.5	131.3	131.3
5°	135.8	135.1	134.3	132.4	130.5	129.0	128.4	127.1	126.2	125.1	125.1
7.5°	133.3	132.6	130.5	127.9	125.5	123.1	121.8	120.0	118.6	117.0	116.7
10°	130.4	129.3	126.6	123.0	119.8	115.6	114.1	111.6	110.0	107.9	105.6
12.5°	127.3	126.6	123.2	119.1	114.4	109.1	106.6	103.2	101.1	98.5	95.2
15°	126.0	124.5	120.5	115.2	109.2	102.9	99.3	95.8	92.5	89.7	85.2
17.5°	124.3	122.6	117.9	111.6	104.3	96.7	92.0	88.1	83.8	80.7	75.7
20°	122.6	119.8	114.7	107.3	99.0	90.0	83.9	80.1	74.3	71.2	65.4
22.5°	121.1	117.7	111.5	103.0	93.2	83.0	76.0	71.5	64.9	61.4	54.1
25°	120.7	116.6	109.1	99.6	88.3	76.4	67.7	63.4	55.2	51.0	42.4
27.5°	120.9	116.0	107.7	96.7	83.9	70.2	60.1	55.0	44.6	40.2	30.5
30°	121.1	116.2	106.2	94.1	79.9	64.0	52.1	46.0	33.7	29.8	21.1
32.5°	123.0	116.9	105.8	92.2	76.4	57.9	43.0	37.5	23.9	21.6	15.7
35°	125.1	119.3	106.6	91.8	73.6	51.7	33.7	28.0	17.1	16.6	12.8
37.5°	129.6	123.0	109.4	92.7	72.0	45.4	25.2	21.5	13.5	13.8	11.0
40°	136.6	129.2	114.2	95.4	71.8	39.0	18.5	16.8	11.7	11.9	10.2
42.5°	145.9	137.7	121.5	101.3	72.7	33.0	14.9	14.5	10.7	11.0	9.8
45°	158.1	149.7	131.7	108.8	75.2	28.0	13.1	13.1	10.4	10.7	9.6
47.5°	173.6	164.3	144.3	118.8	79.2	25.3	12.4	12.6	10.2	10.7	9.6
50°	191.1	180.9	160.3	131.7	85.4	24.6	12.6	12.6	10.4	10.7	9.6
52.5°	209.2	199.9	177.5	146.4	94.0	26.2	12.9	12.8	10.4	10.7	9.4
55°	227.8	219.3	196.7	163.7	105.8	32.1	13.8	13.3	10.4	10.7	9.6
57.5°	246.4	240.4	216.7	182.3	120.6	42.6	17.4	15.5	11.5	11.7	9.8
60°	267.3	263.0	239.3	206.7	141.6	59.0	25.7	19.5	13.7	12.9	10.6
62.5°	294.6	293.4	274.6	241.8	175.2	82.6	36.4	23.6	14.7	13.5	11.3
65°	342.4	345.3	327.4	283.1	197.5	83.3	35.6	20.8	13.8	12.8	11.0
67.5°	390.4	381.9	336.1	276.9	178.3	55.3	22.5	16.2	12.1	11.9	10.4
70°	388.7	365.3	304.6	242.0	140.8	30.0	16.3	13.5	10.9	10.9	9.8
72.5°	348.6	314.0	249.1	191.6	94.0	19.1	13.8	11.9	10.0	9.8	9.2
75°	262.5	221.6	160.1	110.4	42.0	12.4	10.6	9.6	8.7	8.7	8.1
77.5°	123.4	69.6	38.5	25.7	14.0	8.4	7.3	7.3	7.1	7.3	6.6
80°	16.8	15.1	12.9	11.3	8.5	5.7	5.3	5.5	5.3	5.5	4.9
82.5°	10.2	9.2	7.5	7.1	5.3	4.0	3.9	4.0	3.6	3.9	3.0
85°	4.9	4.4	3.4	3.2	2.8	2.3	2.0	2.3	1.9	2.0	1.3
87.5°	0.0	0.4	0.2	0.4	0.4	0.4	0.0	0.4	0.0	0.4	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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8	135.8
2.5°	130.4	129.9	129.6	129.0	128.7	128.1	127.9	127.1	125.9	125.3	124.3
5°	123.4	122.6	121.8	121.5	120.0	119.3	118.1	116.7	114.1	112.7	110.5
7.5°	113.8	113.6	111.5	110.7	109.0	107.7	106.0	103.7	99.6	97.3	93.9
10°	103.2	102.6	100.0	98.5	96.2	94.3	92.2	88.8	82.6	77.5	72.3
12.5°	93.4	91.3	88.3	86.1	83.3	80.7	78.2	72.9	63.0	55.0	47.7
15°	83.3	79.9	76.9	73.2	70.1	66.1	63.2	56.2	43.4	33.5	28.9
17.5°	72.9	68.3	64.9	59.8	56.4	51.0	47.9	39.5	28.4	24.1	22.5
20°	61.9	56.0	52.1	46.0	42.6	35.8	33.3	27.3	21.9	20.2	19.9
22.5°	50.2	43.0	38.8	32.2	29.8	25.7	23.9	20.9	18.3	17.7	18.1
25°	38.1	30.3	27.5	22.7	21.9	19.7	19.0	17.4	16.2	16.2	16.8
27.5°	27.1	21.1	20.4	17.4	17.2	16.2	15.7	14.9	14.6	14.9	15.7
30°	19.9	16.0	16.0	14.5	14.5	13.7	13.5	13.1	13.1	13.8	14.6
32.5°	15.7	13.1	13.5	12.1	12.4	11.9	11.9	11.9	11.9	12.6	13.1
35°	13.1	11.3	11.9	10.7	11.0	10.6	10.9	10.9	11.3	11.5	11.7
37.5°	11.7	10.4	10.7	10.0	10.4	9.8	10.4	10.4	10.6	10.6	10.6
40°	10.7	9.6	10.2	9.4	10.0	9.4	10.0	10.0	9.8	9.6	9.8
42.5°	10.2	9.4	10.0	9.3	9.8	9.3	9.6	9.4	9.2	9.2	9.2
45°	10.0	9.3	9.6	9.2	9.4	8.9	9.3	9.2	8.5	8.4	8.7
47.5°	10.0	9.2	9.6	8.9	9.3	8.7	9.2	8.5	8.1	8.1	8.5
50°	10.0	9.2	9.6	8.9	9.3	8.5	8.7	8.3	7.5	7.6	8.4
52.5°	10.2	9.4	9.8	9.2	9.3	8.3	8.5	7.8	7.3	7.5	8.1
55°	10.4	9.4	9.8	8.7	8.9	8.3	8.3	7.8	7.3	7.3	7.8
57.5°	10.4	9.3	9.4	8.5	8.7	7.8	8.1	7.6	7.1	7.0	7.3
60°	10.7	9.6	9.6	8.4	8.5	7.6	7.8	7.5	7.0	6.6	6.7
62.5°	11.0	9.8	10.0	8.7	8.7	7.8	8.1	7.3	6.6	6.2	6.4
65°	11.0	9.8	10.0	8.9	8.9	8.1	8.1	7.3	6.2	5.7	5.7
67.5°	10.6	9.6	9.8	8.9	8.9	8.1	8.1	7.1	6.0	5.5	5.3
70°	10.2	9.3	9.4	8.4	8.5	7.6	7.6	6.7	5.7	5.1	4.7
72.5°	9.3	8.5	8.5	7.8	7.6	6.7	6.7	6.2	5.3	4.5	4.2
75°	8.1	7.3	7.1	6.4	6.4	5.7	5.7	5.1	4.4	3.9	3.6
77.5°	6.6	5.7	5.7	4.7	4.7	4.2	4.4	3.9	3.2	3.1	3.0
80°	4.7	3.9	3.9	3.1	3.1	2.5	2.8	2.5	2.3	2.3	2.2
82.5°	3.0	2.0	2.2	1.7	2.0	1.4	1.7	1.4	1.4	1.3	1.3
85°	1.4	0.7	1.1	0.6	0.9	0.2	0.6	0.4	0.4	0.4	0.4
87.5°	0.2	0.0	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	175°	180°
0°	135.8	135.8
2.5°	123.4	124.1
5°	109.9	110.0
7.5°	93.2	92.9
10°	71.2	70.2
12.5°	45.9	44.6
15°	27.7	27.3
17.5°	22.2	22.2
20°	19.9	19.9
22.5°	18.3	18.3
25°	17.2	17.4
27.5°	16.3	16.3
30°	15.3	15.3
32.5°	13.5	13.5
35°	11.9	11.9
37.5°	10.7	10.9
40°	9.8	10.0
42.5°	9.4	9.4
45°	9.2	9.2
47.5°	9.2	9.2
50°	8.9	9.2
52.5°	8.7	8.7
55°	8.3	8.4
57.5°	7.6	7.8
60°	7.1	7.1
62.5°	6.4	6.4
65°	5.7	5.7
67.5°	5.1	5.1
70°	4.5	4.5
72.5°	4.0	4.0
75°	3.4	3.4
77.5°	3.0	2.8
80°	2.2	2.2
82.5°	1.3	1.3
85°	0.4	0.4
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)