

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: P271552

Luminaire Tested: **ISS-AF-XXX-LED-E1-SL2-7027-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271552
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29761)
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-SL2-7027-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCUCLED OPTICS-TYPE II W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 521.2 lumens
Efficiency: N/A
Efficacy: 40.1 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 - G1

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

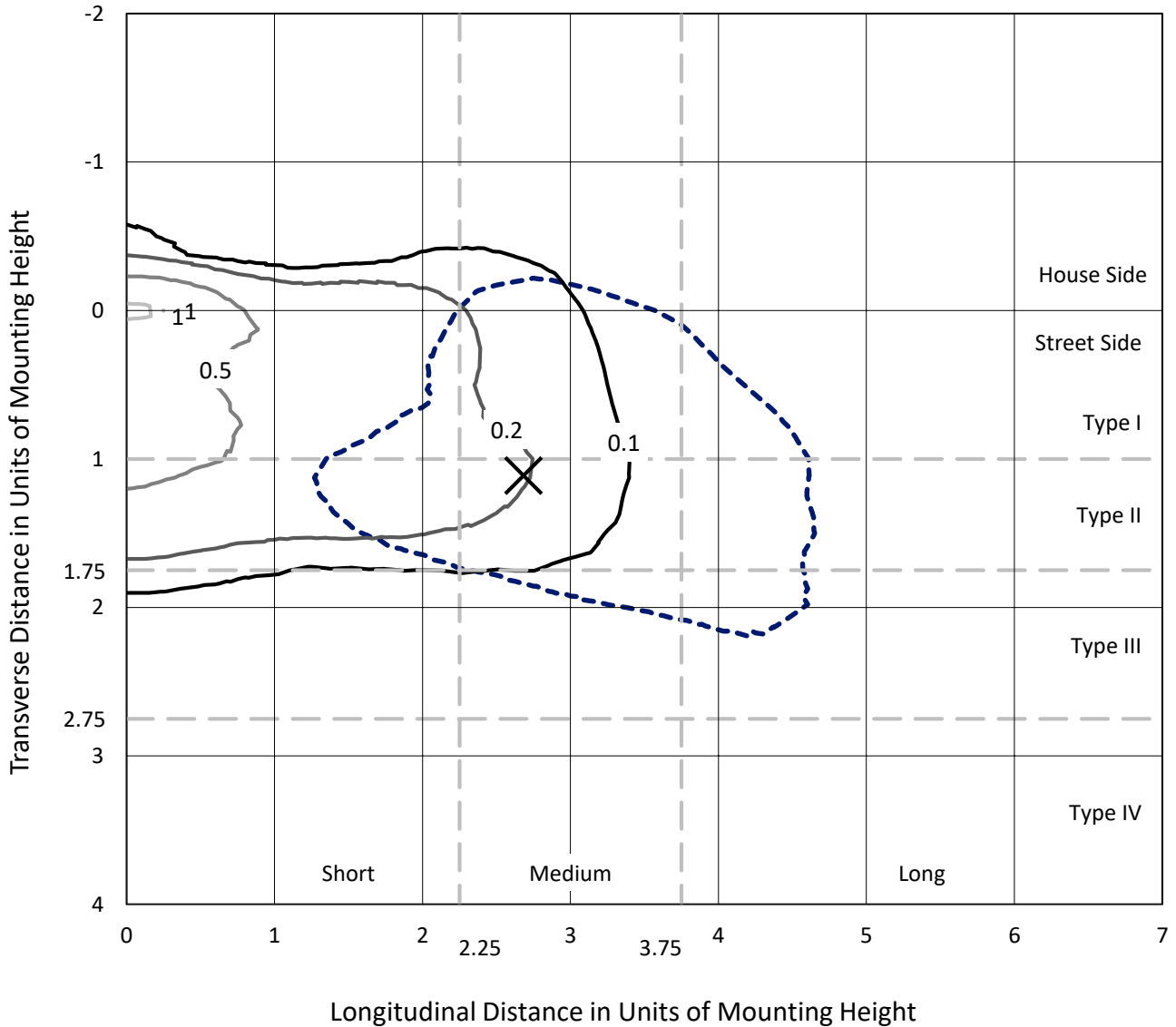


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

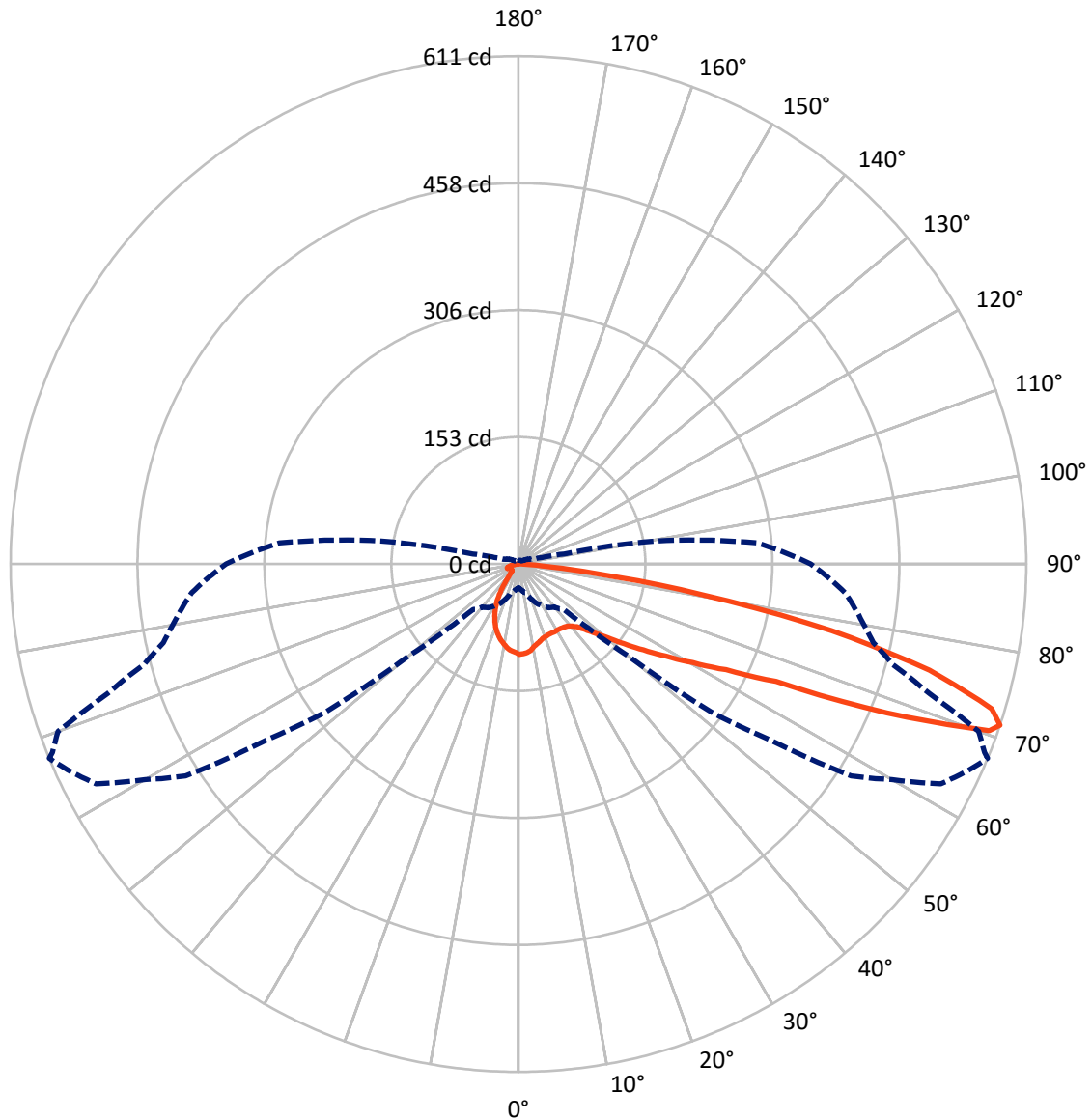


Based on 10 foot mounting height. Maximum calculated value = 1.1 fc
 Type III - Medium - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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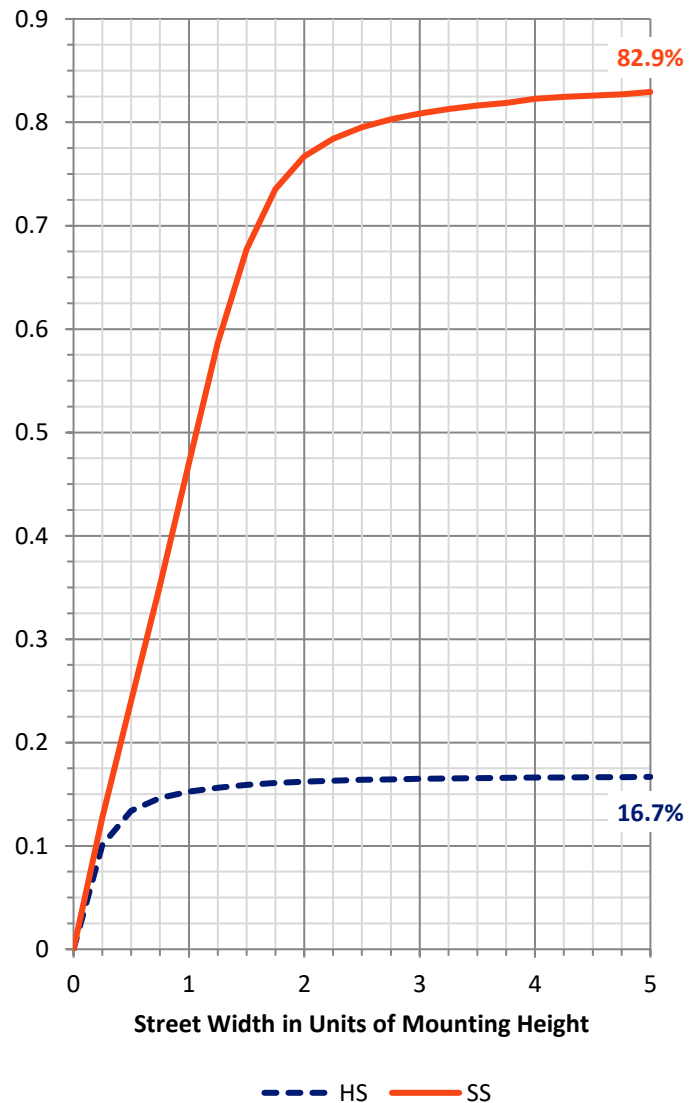
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	87.8	0.0	87.8
	% Fixture	16.8	0.0	16.8
Street Side	Lumens	433.3	0.0	433.3
	% Fixture	83.2	0.0	83.2
Total	Lumens	521.2	0.0	521.2
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	9.5	1.8
10°-20°	22.7	4.4
20°-30°	30.8	5.9
30°-40°	42.1	8.1
40°-50°	63.5	12.2
50°-60°	100.6	19.3
60°-70°	133.2	25.6
70°-80°	106.1	20.4
80°-90°	12.6	2.4
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°	521.2	100.0
0°-180°	521.2	100.0

Coefficient of Utilization



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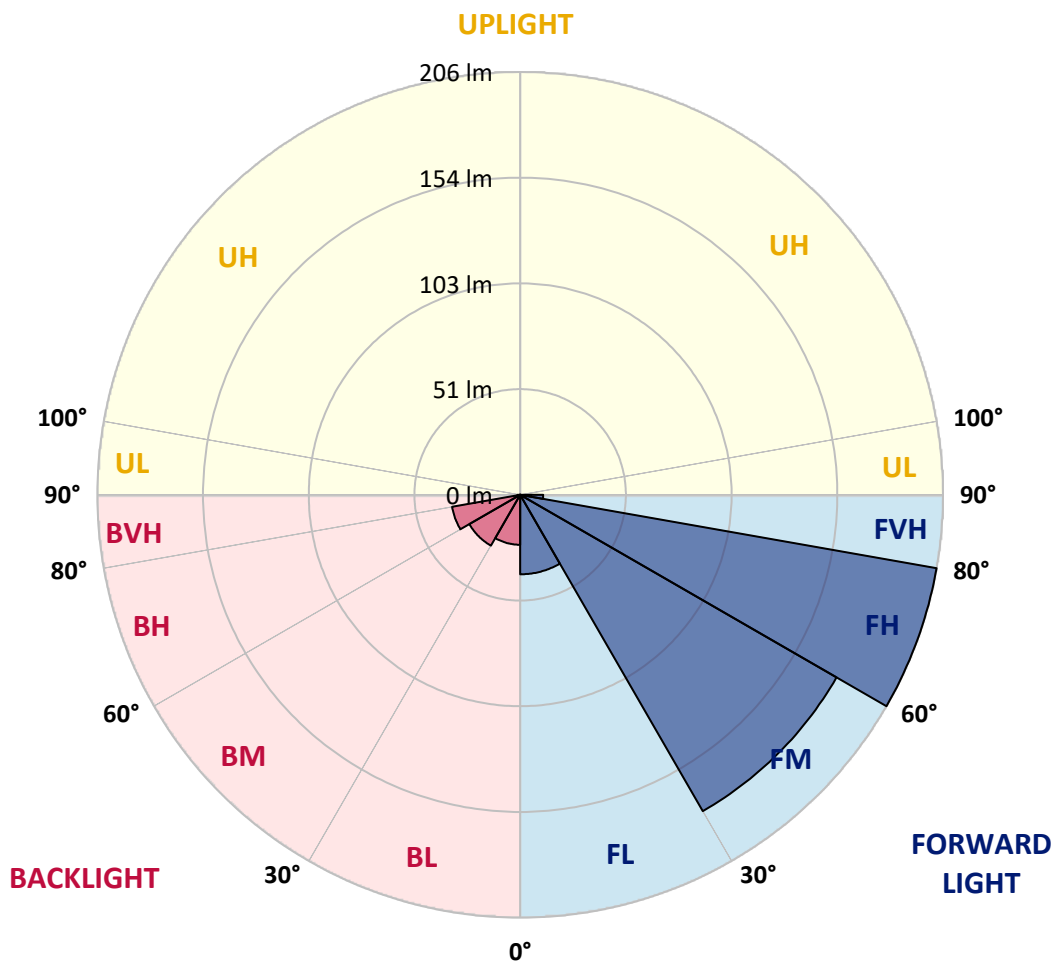
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SL2-7027-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	38.7	7.4			
FM	(30°-60°)	177.7	34.1			
FH	(60°-80°)	205.7	39.5			G0/660
FVH	(80°-90°)	11.2	2.2			G1/100
BL	(0°-30°)	24.3	4.7	B0/110		
BM	(30°-60°)	28.5	5.5	B0/220		
BH	(60°-80°)	33.6	6.4	B0/110		G0/110
BVH	(80°-90°)	1.4	0.3			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B0-U0-G1

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°	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7
2.5°	106.6	106.2	106.2	106.8	107.7	107.0	107.4	107.4	107.7	108.2	108.4
5°	98.7	98.1	98.7	99.5	101.5	101.1	101.7	102.2	103.3	103.6	104.9
7.5°	91.6	91.3	91.9	93.3	95.8	95.1	95.8	96.6	97.8	98.5	99.9
10°	86.2	85.7	86.3	87.6	90.0	89.9	90.2	91.2	92.5	93.0	94.8
12.5°	82.3	82.3	82.6	84.0	86.2	86.1	87.1	87.7	88.9	89.3	91.3
15°	80.2	79.7	80.4	81.7	83.8	83.8	84.6	85.1	87.0	87.1	88.9
17.5°	78.4	78.6	78.8	80.2	82.3	81.8	82.7	83.1	85.1	84.8	87.0
20°	78.4	78.8	78.6	79.5	80.9	80.2	81.4	81.5	83.7	83.1	85.5
22.5°	80.6	80.9	80.4	80.2	80.8	80.2	80.8	81.2	82.7	82.5	84.6
25°	84.4	85.1	84.4	83.1	82.6	81.2	81.5	82.0	83.4	82.5	84.4
27.5°	90.4	91.0	89.7	88.4	85.9	84.2	83.7	83.5	85.0	83.5	85.1
30°	97.4	98.1	96.9	94.6	91.0	88.2	87.1	86.6	87.6	85.2	87.0
32.5°	104.8	105.6	104.8	102.9	98.1	94.1	92.5	91.3	92.1	89.1	89.9
35°	112.4	113.2	113.8	112.7	106.4	101.9	99.5	98.5	98.3	94.6	94.8
37.5°	119.1	119.8	122.3	123.3	117.5	111.3	109.1	106.8	107.0	101.9	101.9
40°	127.3	128.3	131.3	133.8	130.1	122.6	120.0	117.5	117.5	110.9	111.0
42.5°	138.5	139.6	141.6	145.0	143.7	136.0	133.4	129.9	130.3	122.3	122.1
45°	154.1	154.8	154.8	157.0	157.1	149.8	148.1	144.6	145.3	135.1	135.7
47.5°	174.5	173.6	169.9	171.1	172.7	165.0	163.3	161.2	162.1	151.2	152.3
50°	193.3	192.7	185.2	185.6	190.8	183.1	182.4	179.8	181.0	170.0	171.8
52.5°	200.5	199.2	191.8	195.7	210.6	206.1	207.0	205.7	206.5	194.8	194.4
55°	192.5	192.5	187.9	195.2	225.3	227.6	235.1	237.9	241.0	229.3	226.8
57.5°	170.3	171.8	172.5	185.4	222.9	233.0	247.2	259.6	275.4	274.7	278.6
60°	133.5	136.0	140.2	161.3	212.7	229.3	247.8	266.3	288.2	302.2	322.9
62.5°	93.7	95.8	99.4	113.8	183.1	211.7	238.3	266.9	294.7	316.7	344.1
65°	63.7	65.8	73.1	81.2	110.4	152.3	192.9	240.2	282.4	323.5	360.2
67.5°	45.8	47.1	52.8	66.3	73.5	81.2	96.3	151.9	204.2	286.5	340.2
70°	34.3	35.7	40.7	55.7	64.6	66.6	70.2	80.1	93.3	161.0	231.4
71°	28.7	30.5	36.7	52.4	64.2	65.8	67.6	73.3	77.6	113.8	171.8
72.5°	20.2	21.5	27.3	48.4	61.6	65.5	69.3	69.1	68.8	77.6	103.8
75°	12.9	12.9	12.9	27.3	65.8	63.5	64.9	72.8	68.8	65.3	68.5
77.5°	10.2	10.0	9.4	13.7	51.6	64.4	68.2	70.2	74.0	68.2	65.1
80°	7.6	7.5	7.5	8.5	23.9	41.6	57.7	64.0	66.7	72.7	66.3
82.5°	4.0	4.0	4.3	5.1	8.9	14.6	29.8	49.0	55.0	55.2	55.9
85°	1.3	1.1	1.4	2.3	3.9	4.7	8.4	19.9	29.5	35.7	37.7
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	0.7	1.3	1.7
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°	60°	62.5°	65°	67.5°	68°	70°	72.5°	75°
0°	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7
2.5°	107.9	108.7	108.1	108.8	107.9	109.0	108.1	108.7	108.8	108.1	109.0
5°	104.0	106.2	105.6	107.2	106.4	107.9	107.2	108.7	108.7	108.1	109.3
7.5°	99.4	101.5	101.7	103.3	103.3	105.1	105.1	106.6	107.3	107.3	109.1
10°	94.6	96.6	96.9	98.7	99.2	101.3	101.3	103.3	104.8	105.3	107.4
12.5°	91.0	93.5	93.5	95.5	95.1	98.5	98.7	100.6	102.0	103.3	106.2
15°	88.8	91.2	91.2	93.2	92.7	96.1	96.6	98.5	100.6	101.3	105.3
17.5°	86.6	88.9	88.4	91.2	91.0	94.6	94.2	96.9	98.7	99.9	104.5
20°	84.8	87.6	87.1	89.9	89.1	93.2	93.2	95.8	97.6	98.6	103.8
22.5°	83.8	86.8	86.1	88.8	88.2	92.3	92.3	95.0	96.9	98.5	103.7
25°	83.8	86.3	85.7	88.8	87.9	92.3	92.1	94.8	96.7	98.1	103.8
27.5°	84.2	86.8	86.2	89.1	88.4	92.3	92.5	95.0	96.9	98.5	104.2
30°	85.5	87.9	86.6	89.3	88.8	92.4	92.3	94.8	96.7	98.6	104.2
32.5°	88.2	89.5	87.9	90.2	89.1	92.7	92.7	94.6	96.9	99.2	104.2
35°	92.1	93.0	90.4	92.1	90.0	93.7	93.5	95.5	97.4	99.2	104.7
37.5°	97.5	98.6	94.6	96.1	92.7	95.7	95.0	97.4	99.2	100.3	106.4
40°	105.7	106.1	100.8	101.9	97.4	99.9	98.1	101.3	102.2	102.9	109.1
42.5°	115.7	116.2	109.3	110.0	104.2	106.4	103.3	106.8	108.1	107.9	114.6
45°	128.1	128.3	120.6	121.1	114.4	116.2	112.4	115.3	116.2	115.7	122.6
47.5°	141.6	143.0	134.5	135.1	128.1	129.0	124.2	127.5	127.5	127.0	134.0
50°	159.4	161.5	151.5	152.6	144.4	145.2	139.7	143.2	142.8	141.3	149.4
52.5°	181.5	183.5	173.0	174.5	165.7	166.1	159.4	163.3	162.2	159.9	169.2
55°	208.7	208.9	199.1	200.3	191.6	191.0	182.6	187.6	185.9	182.6	191.2
57.5°	252.2	246.9	230.7	230.3	220.8	220.2	209.3	215.4	212.7	205.7	217.0
60°	322.2	323.7	282.4	276.2	258.5	255.2	241.0	247.9	244.7	233.4	244.5
62.5°	361.7	387.7	385.1	362.2	316.7	304.3	280.3	288.5	280.0	263.5	273.8
65°	390.9	426.2	446.5	468.6	448.3	397.7	340.9	352.3	331.5	299.9	309.9
67.5°	401.8	444.4	487.4	518.6	539.9	543.7	478.1	481.2	429.7	366.8	368.0
70°	344.7	407.5	491.6	531.2	573.4	594.2	601.1	597.8	564.5	475.3	441.3
71°	292.2	368.1	474.8	519.0	573.1	593.0	611.3	605.1	589.6	518.4	466.3
72.5°	198.0	293.5	425.9	481.9	554.0	568.4	595.8	584.9	581.7	550.8	489.6
75°	93.2	146.2	277.0	361.8	468.7	482.7	511.3	497.9	489.4	499.9	465.7
77.5°	68.6	79.9	152.2	224.8	340.9	360.7	385.4	368.8	357.9	368.3	344.6
80°	62.4	62.7	78.8	118.6	203.4	215.2	224.5	211.0	194.4	193.8	171.8
82.5°	57.5	54.3	51.1	62.7	104.2	99.2	91.6	85.0	66.0	52.9	38.2
85°	36.7	40.1	36.4	34.3	41.5	34.1	27.1	26.1	18.3	12.4	11.5
87.5°	2.5	3.0	3.4	4.0	4.9	4.0	2.5	3.1	1.9	0.0	0.9
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):

	77.5°	80°	85°	90°	95°	100°	102.5°	105°	107.5°	110°	112.5°
0°	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7
2.5°	107.7	108.7	109.0	108.8	108.4	108.1	106.8	107.7	106.4	107.3	106.2
5°	108.2	109.5	109.8	109.3	109.0	108.2	106.1	107.3	105.9	106.6	104.9
7.5°	108.1	110.0	110.2	110.0	109.1	107.9	105.7	106.6	104.2	104.8	102.6
10°	107.2	110.0	110.2	109.3	108.2	106.2	103.7	104.0	101.7	101.7	98.7
12.5°	106.2	109.8	110.6	109.3	107.4	104.8	101.9	101.5	98.7	98.6	95.3
15°	106.2	110.0	111.3	109.8	107.0	103.1	99.7	98.9	95.8	95.0	91.3
17.5°	106.1	110.0	111.9	109.8	106.4	101.5	97.2	96.4	92.4	91.0	86.8
20°	105.9	110.4	112.3	109.3	104.8	99.5	94.6	93.2	88.8	86.3	81.5
22.5°	105.7	111.1	112.6	109.0	103.7	96.9	91.9	89.3	84.2	81.2	75.3
25°	106.6	112.1	112.7	108.7	102.0	94.2	88.8	85.2	79.7	75.6	68.8
27.5°	107.0	113.0	113.2	107.9	100.0	91.3	85.5	80.8	74.4	69.5	61.6
30°	108.1	113.2	112.6	106.4	97.6	87.7	81.7	75.9	68.8	62.4	53.1
32.5°	108.4	113.6	112.3	104.8	95.3	84.0	77.3	70.6	62.1	54.5	43.3
35°	109.1	114.1	111.9	103.8	92.7	80.2	72.8	65.1	55.2	45.8	32.9
37.5°	110.2	115.7	112.7	103.6	91.4	77.0	67.7	59.5	47.3	36.2	21.8
40°	113.0	118.9	114.4	104.0	90.5	74.2	62.7	53.7	38.2	26.7	15.1
42.5°	118.5	124.7	118.6	106.8	91.2	71.9	57.7	47.5	28.9	19.1	12.6
45°	126.6	131.9	125.5	111.3	93.3	70.6	52.9	41.1	20.8	15.3	11.5
47.5°	138.6	143.7	135.7	118.6	97.2	70.1	48.0	34.3	16.0	13.8	11.0
50°	154.5	160.4	150.5	130.1	104.2	70.6	42.8	27.9	14.0	13.5	10.9
52.5°	173.9	179.8	169.7	147.1	115.9	73.8	37.1	24.3	13.3	13.3	10.7
55°	195.9	204.2	194.3	170.5	133.8	80.4	33.7	23.1	13.3	13.5	10.6
57.5°	221.9	228.9	220.2	193.0	155.6	91.4	34.0	24.3	13.3	13.5	10.4
60°	247.4	255.9	246.0	221.7	180.3	108.2	41.5	30.9	13.8	14.0	10.4
62.5°	273.9	280.5	272.4	246.9	208.2	129.0	56.4	44.7	16.0	16.6	11.0
65°	303.1	313.8	305.2	284.3	247.9	162.1	84.8	67.1	23.6	19.2	12.1
67.5°	353.4	357.9	353.7	334.6	294.4	189.4	101.0	68.2	23.6	18.8	13.7
70°	421.7	411.9	393.1	357.4	299.2	169.9	72.4	41.6	20.2	17.9	14.4
71°	437.6	422.5	394.7	351.9	289.1	153.4	56.2	32.9	19.0	17.4	14.4
72.5°	447.2	424.6	382.8	335.2	269.0	120.8	37.1	25.8	17.2	16.6	13.8
75°	434.6	393.0	338.0	290.2	220.4	62.7	23.3	19.7	14.7	14.4	11.9
77.5°	345.1	308.6	249.4	210.8	141.8	27.8	16.8	14.9	11.7	11.3	9.3
80°	161.0	129.2	75.6	64.9	44.6	16.3	11.5	10.2	8.4	8.1	6.6
82.5°	29.3	22.0	17.1	16.6	14.9	9.6	6.7	6.2	5.3	5.1	4.2
85°	10.0	9.6	7.3	7.3	7.5	5.1	3.9	3.6	2.8	2.8	1.9
87.5°	0.2	0.9	0.9	1.3	1.1	0.9	0.4	0.6	0.2	0.6	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°	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7	108.7
2.5°	107.2	105.7	107.0	105.7	106.4	104.9	105.9	105.3	105.3	104.8	104.5
5°	105.6	103.7	104.7	103.1	103.8	101.7	102.2	101.3	99.5	98.5	96.9
7.5°	103.1	100.4	101.1	98.9	99.5	96.6	97.2	95.5	92.1	89.9	87.7
10°	98.9	96.4	96.6	93.9	93.7	90.8	90.2	88.0	82.9	79.3	76.4
12.5°	94.8	91.9	91.4	88.2	87.7	84.2	83.5	80.1	72.7	65.5	60.9
15°	90.4	86.8	85.7	82.3	80.2	77.3	75.3	70.2	59.5	50.2	44.2
17.5°	85.5	80.8	79.1	75.1	72.2	67.8	64.9	58.0	44.2	34.1	30.0
20°	79.1	74.0	71.1	66.0	62.3	57.0	53.3	44.4	29.5	24.3	23.9
22.5°	72.0	66.0	62.4	56.1	51.3	45.6	39.9	30.0	20.9	19.9	20.5
25°	64.6	57.1	52.4	44.6	38.2	31.7	26.2	20.0	17.1	16.9	18.0
27.5°	55.7	47.1	40.3	31.1	25.3	20.2	17.9	15.8	14.6	14.7	15.8
30°	45.8	34.8	27.7	19.4	16.9	14.7	14.4	13.7	13.0	13.5	14.2
32.5°	34.1	22.2	17.9	14.0	13.8	12.6	12.9	12.6	12.4	12.6	13.0
35°	23.1	14.7	14.0	11.9	12.4	11.5	11.9	11.8	11.7	11.7	11.9
37.5°	16.0	12.1	12.6	11.0	11.7	10.9	11.5	11.3	11.0	10.9	11.0
40°	13.3	11.0	11.7	10.6	11.0	10.4	10.9	10.7	10.6	10.2	10.2
42.5°	12.1	10.6	11.0	10.0	10.7	9.8	10.6	10.2	9.8	9.4	9.6
45°	11.8	10.2	10.7	9.6	10.4	9.4	10.0	9.8	9.2	8.9	9.2
47.5°	11.5	10.0	10.6	9.4	10.0	9.2	9.6	9.3	8.5	8.4	8.5
50°	11.3	9.6	10.2	9.2	9.6	8.9	9.3	8.9	8.2	8.1	8.1
52.5°	11.0	9.4	10.0	8.7	9.3	8.2	8.7	8.4	7.6	7.5	7.5
55°	11.0	9.3	9.6	8.4	8.9	7.8	8.2	7.8	7.5	7.1	7.1
57.5°	10.9	8.9	9.4	8.1	8.4	7.5	7.8	7.5	6.8	6.7	6.7
60°	10.9	8.7	9.3	7.8	8.2	7.1	7.5	7.1	6.6	6.4	6.4
62.5°	11.5	9.2	9.4	8.1	8.2	7.1	7.3	6.7	6.2	6.2	6.0
65°	12.6	10.2	10.2	8.4	8.4	7.1	7.3	6.6	5.7	5.7	5.7
67.5°	13.7	11.3	11.0	8.9	8.7	7.1	7.1	6.2	5.5	5.5	5.5
70°	14.4	11.8	11.5	9.2	8.7	6.8	6.7	5.7	5.1	5.1	5.1
71°	14.2	11.8	11.3	8.9	8.4	6.6	6.6	5.6	4.9	4.9	4.7
72.5°	13.5	11.0	10.6	8.4	8.1	6.2	6.2	5.3	4.5	4.5	4.3
75°	11.5	9.4	8.9	7.1	6.7	5.5	5.3	4.3	4.0	3.9	3.9
77.5°	8.9	7.5	6.8	5.6	5.5	4.3	4.2	3.6	3.2	3.2	3.1
80°	6.4	5.3	4.9	3.9	3.4	3.0	3.1	2.8	2.5	2.5	2.3
82.5°	3.9	2.8	2.8	2.2	2.3	1.9	2.0	2.0	1.9	1.4	1.4
85°	2.0	1.3	1.7	0.9	1.3	0.6	0.9	0.7	0.7	0.6	0.6
87.5°	0.4	0.0	0.2	0.0	0.2	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°	108.7	108.7
2.5°	103.3	103.6
5°	96.3	96.6
7.5°	86.1	86.6
10°	73.9	74.2
12.5°	58.2	58.2
15°	40.7	41.1
17.5°	28.6	28.7
20°	24.1	24.3
22.5°	21.5	21.6
25°	19.1	19.2
27.5°	16.6	16.8
30°	14.9	15.1
32.5°	13.5	13.7
35°	12.1	12.1
37.5°	11.3	11.3
40°	10.4	10.4
42.5°	9.8	9.8
45°	9.3	9.3
47.5°	8.7	8.7
50°	8.2	8.4
52.5°	7.6	7.6
55°	7.1	7.1
57.5°	6.6	6.7
60°	6.2	6.2
62.5°	5.7	5.7
65°	5.6	5.6
67.5°	5.3	5.3
70°	4.9	4.9
71°	4.7	4.7
72.5°	4.3	4.3
75°	3.9	3.6
77.5°	3.1	3.1
80°	2.3	2.2
82.5°	1.4	1.3
85°	0.6	0.4
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)