

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: P271554

Luminaire Tested: **ISS-AF-XXX-LED-E1-SL4-7027-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P271554
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29763)
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-SL4-7027-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCUCLED OPTICS-TYPE IV W/SPILL CONTROL
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 487.8 lumens
Efficiency: N/A
Efficacy: 37.5 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - Short - 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

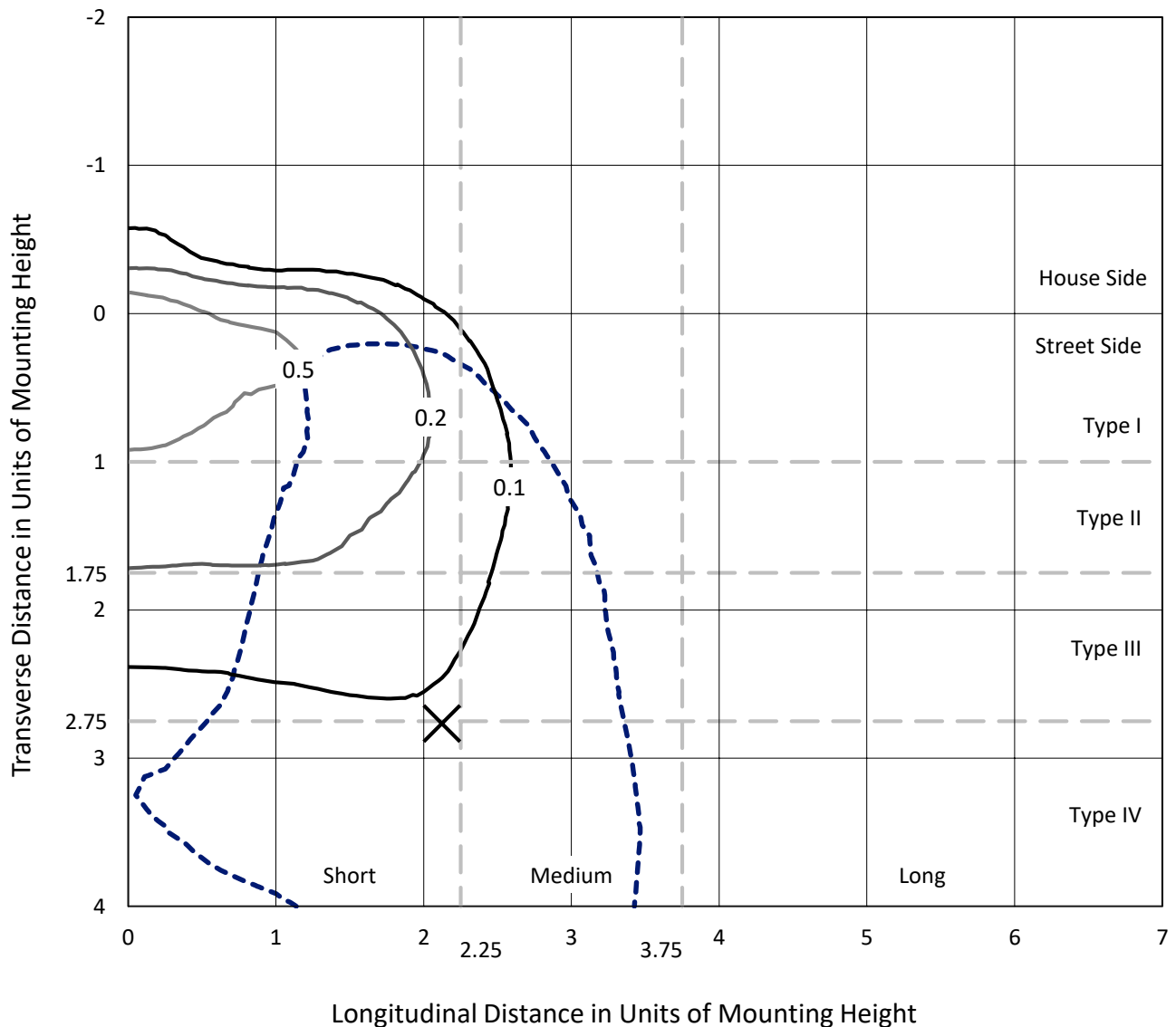


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Iso-Footcandle Lines of Horizontal Illumination

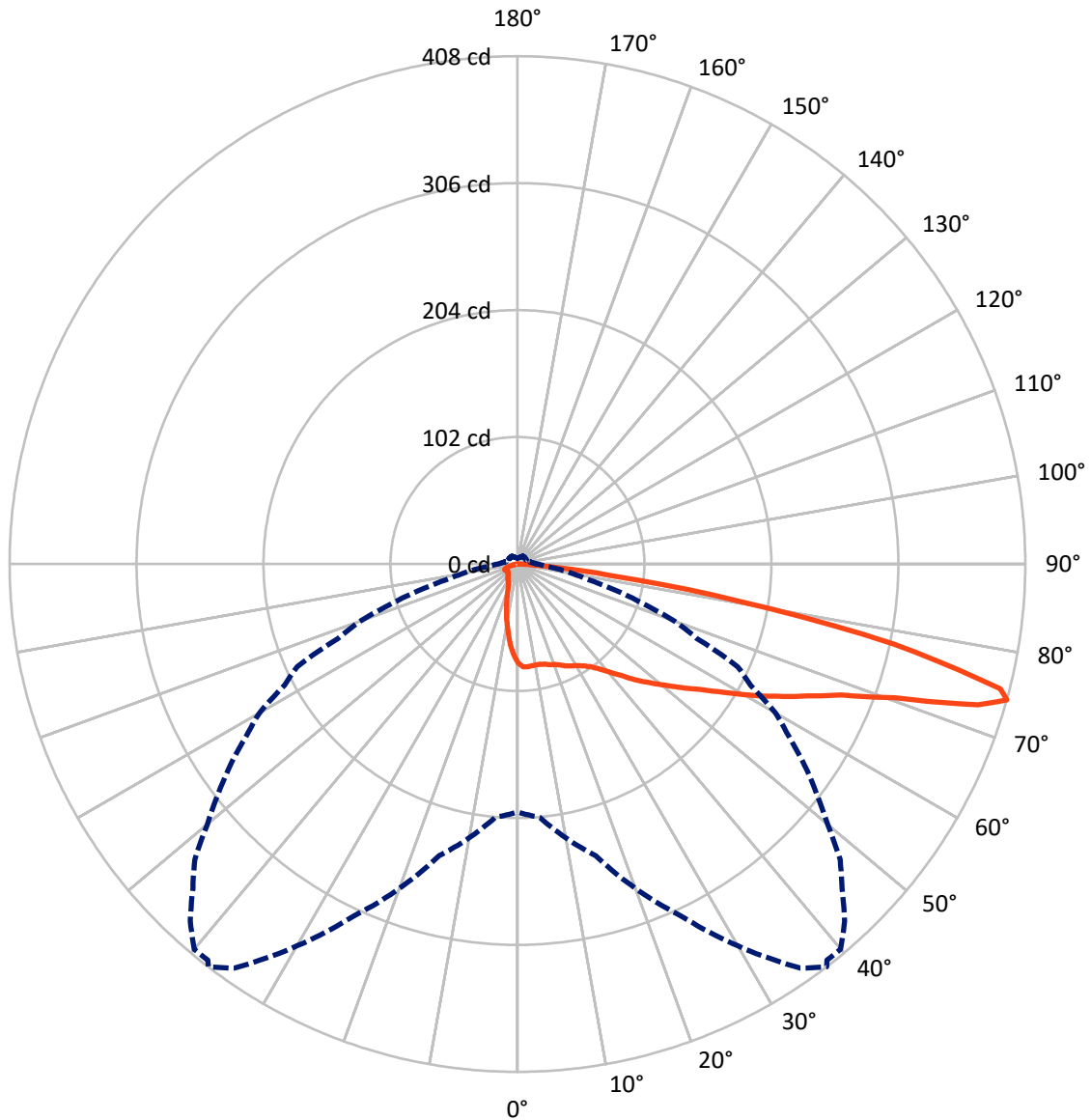
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 37.5-Deg Lateral - - - Horizontal Cone Through 74-Deg Vertical

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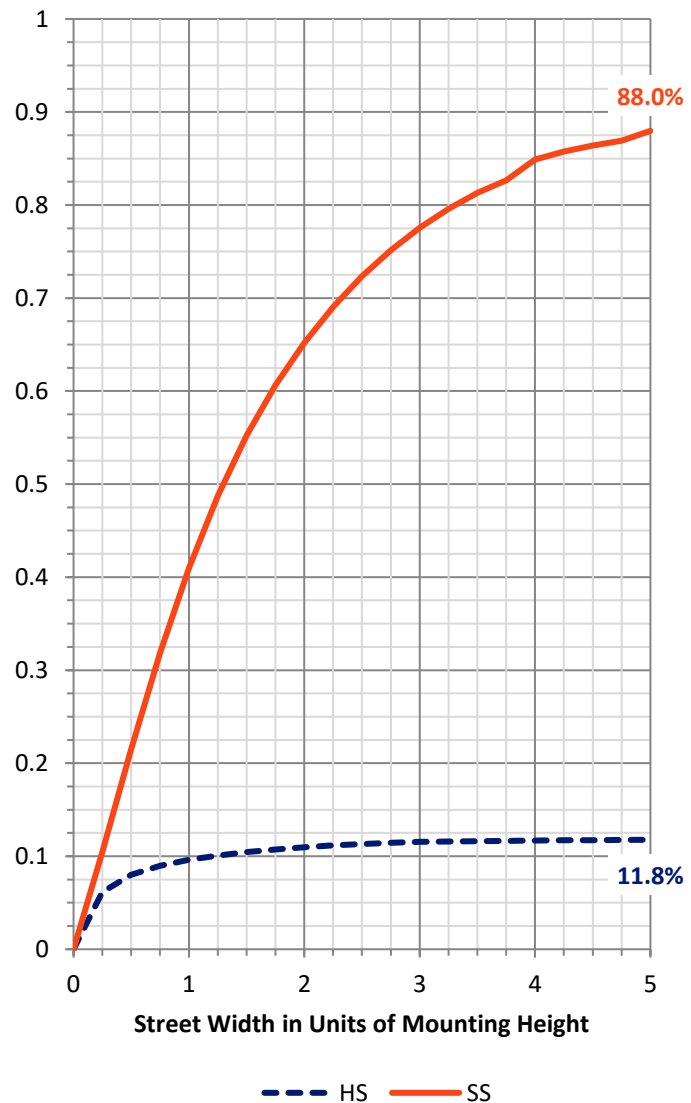
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	57.8	0.0	57.8
	% Fixture	11.9	0.0	11.9
Street Side	Lumens	430.0	0.0	430.0
	% Fixture	88.1	0.0	88.1
Total	Lumens	487.8	0.0	487.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.9	1.4
10°-20°	17.7	3.6
20°-30°	27.4	5.6
30°-40°	40.6	8.3
40°-50°	62.4	12.8
50°-60°	92.3	18.9
60°-70°	123.0	25.2
70°-80°	106.2	21.8
80°-90°	11.4	2.3
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°	487.8	100.0
0°-180°	487.8	100.0



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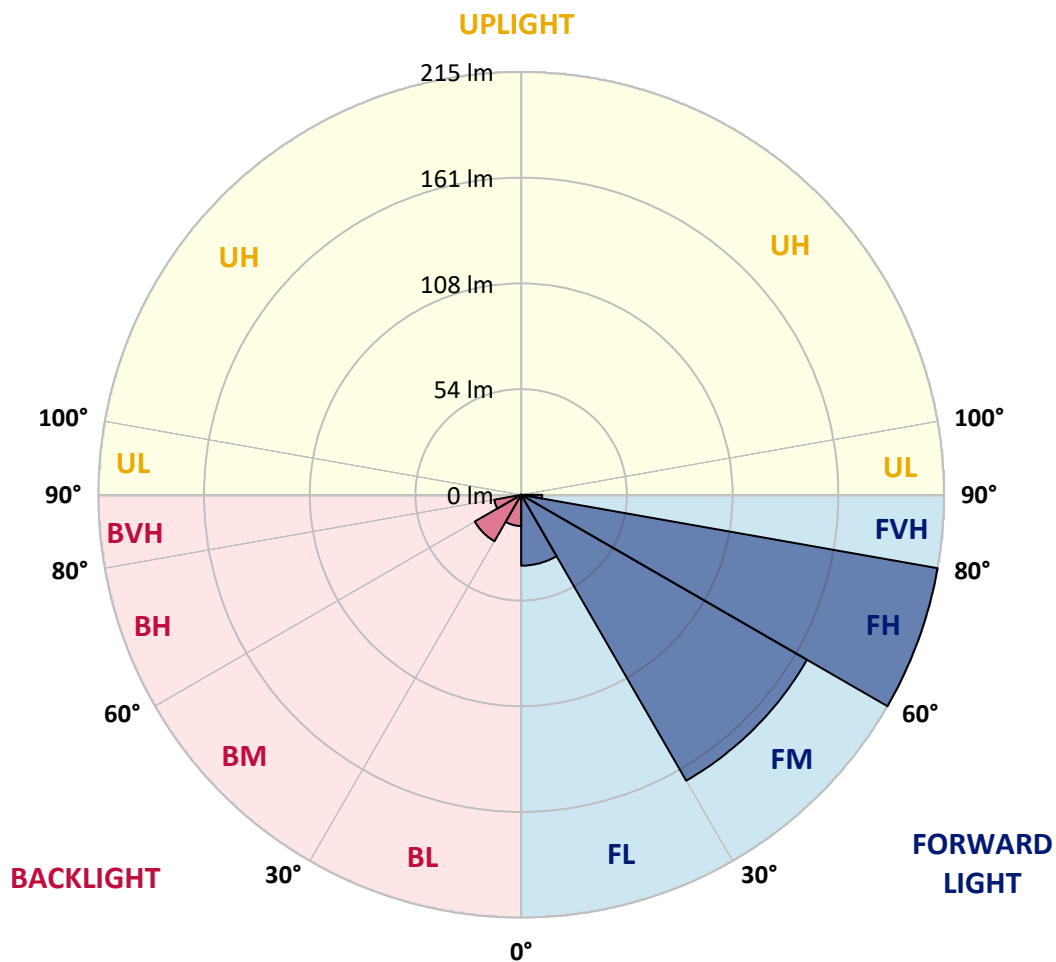
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SL4-7027-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	36.1	7.4			
FM (30°-60°)	168.0	34.4			
FH (60°-80°)	215.2	44.1			G0/660
FVH (80°-90°)	10.7	2.2			G1/100
BL (0°-30°)	15.9	3.3	B0/110		
BM (30°-60°)	27.3	5.6	B0/220		
BH (60°-80°)	13.9	2.9	B0/110		G0/110
BVH (80°-90°)	0.8	0.2			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	38°	40°	42.5°	45°	47.5°
0°	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
2.5°	84.1	84.0	83.6	83.5	83.0	82.6	83.0	82.4	81.9	82.4	81.6
5°	85.6	85.4	85.1	84.4	84.0	83.0	83.6	82.7	82.6	82.8	81.9
7.5°	85.8	85.4	84.9	84.0	83.6	82.6	82.8	81.7	81.5	81.7	81.3
10°	85.2	85.1	84.5	83.0	82.7	82.4	82.1	81.5	81.3	81.0	80.8
12.5°	84.4	84.4	84.0	83.5	83.3	82.6	82.7	81.9	82.1	81.7	81.5
15°	84.0	83.8	84.1	84.5	84.5	83.5	84.1	83.6	83.3	83.5	82.8
17.5°	83.6	83.8	85.1	85.8	86.1	85.1	86.1	85.1	84.4	85.2	84.4
20°	83.5	84.0	86.1	87.9	87.9	86.1	87.9	86.1	86.1	87.2	85.6
22.5°	84.4	85.2	88.3	90.2	90.5	88.1	90.4	87.9	87.9	88.9	87.2
25°	87.2	88.1	91.6	93.6	93.2	90.7	92.7	90.4	90.2	91.3	89.1
27.5°	91.1	92.3	95.6	97.5	96.2	92.7	95.6	92.2	92.2	93.9	90.9
30°	96.6	97.5	100.4	100.5	98.9	94.7	97.9	94.1	93.6	96.6	93.0
32.5°	102.6	103.2	105.6	104.2	101.8	97.5	101.3	96.7	96.6	99.6	95.4
35°	109.0	109.6	110.4	108.2	106.0	101.3	105.6	100.9	100.7	104.2	100.3
37.5°	115.5	115.5	115.5	113.0	111.5	106.9	110.7	107.1	106.8	110.4	106.6
40°	120.7	121.1	120.6	118.1	117.5	114.3	117.5	114.3	114.7	118.0	114.9
42.5°	125.1	125.5	125.8	123.7	124.4	122.6	125.1	122.8	123.0	126.6	124.8
45°	129.5	129.4	130.8	130.3	132.4	132.6	134.0	133.2	133.5	136.3	135.7
47.5°	134.0	133.2	134.7	137.1	141.1	142.4	143.4	143.7	145.2	146.4	147.7
50°	138.4	137.5	138.6	143.9	150.3	153.0	153.3	155.0	156.7	158.6	161.1
52.5°	143.0	142.2	143.4	150.8	161.1	164.9	164.3	167.4	169.8	171.8	176.0
55°	147.7	147.1	148.1	159.2	172.6	177.8	177.2	181.5	186.2	186.8	191.6
57.5°	152.4	151.4	154.5	169.0	186.2	194.1	191.6	198.3	202.7	202.4	208.9
60°	157.2	156.5	161.3	181.1	203.3	213.7	209.8	218.7	221.8	220.5	226.8
62.5°	162.0	161.8	170.0	195.1	224.0	234.1	230.7	238.4	240.7	238.9	242.0
65°	166.3	167.4	179.2	209.1	244.1	255.6	250.9	258.6	261.1	259.9	265.2
67.5°	173.6	174.9	190.7	226.9	268.9	280.7	276.7	284.9	288.7	288.4	294.1
70°	184.3	186.7	207.7	252.2	306.5	321.8	319.4	329.5	338.8	338.1	343.9
72.5°	203.1	206.9	235.5	291.6	368.5	386.9	384.4	390.0	388.3	375.0	364.4
74°	199.4	204.2	242.5	312.3	396.3	408.0	403.9	404.0	389.1	368.8	351.6
75°	186.2	191.1	232.4	309.6	394.4	400.7	394.7	387.3	369.2	348.6	327.3
77.5°	127.6	134.0	170.9	250.1	317.6	308.7	307.3	293.0	269.2	246.0	218.7
80°	65.4	70.0	88.3	130.8	188.4	179.6	182.5	171.0	151.2	134.5	106.6
82.5°	15.7	16.8	26.1	50.7	81.6	74.6	75.7	67.0	55.5	45.4	35.1
85°	8.3	9.3	12.8	14.0	21.5	22.2	21.6	20.9	17.1	14.5	12.6
87.5°	0.0	0.0	0.0	0.4	0.2	0.0	0.2	0.0	0.0	0.2	0.4
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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
2.5°	82.1	81.7	82.1	81.0	81.6	80.7	81.0	80.2	80.5	79.8	79.9
5°	82.6	81.6	82.1	81.3	81.5	80.7	80.5	80.2	79.9	79.4	79.1
7.5°	81.6	80.8	80.7	80.3	79.8	79.9	79.2	79.1	78.5	78.5	77.4
10°	80.7	80.8	79.8	80.2	79.2	79.4	78.2	78.5	77.6	78.3	76.6
12.5°	81.5	81.6	80.7	81.3	79.6	79.9	78.9	79.4	78.2	79.1	77.1
15°	83.0	82.8	82.6	82.6	80.8	81.6	80.3	80.7	79.4	80.5	78.3
17.5°	84.5	84.4	83.8	83.6	82.6	82.7	81.5	82.1	80.7	81.6	79.4
20°	86.1	85.2	85.1	84.9	83.6	83.6	82.7	83.0	81.6	82.7	80.2
22.5°	87.5	86.7	86.6	85.8	84.9	85.2	84.0	84.1	82.7	83.8	81.6
25°	89.4	88.6	88.6	87.5	86.9	86.7	86.0	86.6	85.1	85.8	83.8
27.5°	92.2	90.2	90.9	89.8	89.4	89.2	88.9	89.2	88.1	88.8	86.7
30°	94.7	92.2	93.2	91.8	92.5	91.8	92.3	91.8	91.8	91.8	90.9
32.5°	98.2	95.1	97.3	95.1	96.6	95.4	97.3	96.2	96.8	96.7	96.4
35°	103.0	99.4	102.6	99.6	102.1	100.7	103.2	102.8	104.2	103.5	104.2
37.5°	109.6	105.8	109.4	106.8	109.9	107.7	111.3	110.9	114.1	113.0	114.1
40°	117.9	115.2	117.9	115.8	119.1	118.1	122.0	122.2	125.8	125.1	126.4
42.5°	127.0	125.0	127.6	126.6	129.9	130.6	134.9	136.0	139.3	140.2	140.5
45°	136.8	136.5	138.6	139.7	143.0	145.2	149.0	151.7	155.4	157.3	157.0
47.5°	148.3	149.7	151.2	153.9	156.8	161.3	165.2	168.7	172.8	174.1	174.7
50°	161.2	163.7	165.0	168.8	171.8	177.4	182.6	187.0	191.6	191.1	191.5
52.5°	174.9	178.1	180.0	184.5	188.4	194.9	199.4	203.6	209.2	207.9	207.3
55°	190.0	194.9	196.4	201.5	204.7	211.6	215.5	222.8	225.1	223.7	220.5
57.5°	206.0	211.8	213.4	220.4	222.0	229.3	232.8	237.7	239.7	237.3	233.3
60°	224.3	229.4	230.8	237.1	239.2	245.9	248.4	252.9	254.3	248.4	242.8
62.5°	242.5	247.9	248.7	254.1	256.3	262.1	265.0	267.5	266.9	258.4	251.2
65°	263.2	268.5	270.3	275.8	277.0	281.3	283.8	280.9	279.2	266.3	258.4
67.5°	296.2	301.8	302.5	303.9	303.6	301.5	300.3	290.3	283.1	259.3	247.8
70°	339.5	335.3	327.2	317.7	310.7	298.3	291.1	270.5	255.2	228.3	209.1
72.5°	347.4	333.7	313.5	297.2	280.5	261.0	245.3	214.2	192.8	164.7	144.3
74°	325.2	302.9	281.6	258.8	239.5	211.1	195.3	155.9	134.7	106.2	81.5
75°	298.3	272.4	248.3	219.3	201.3	167.3	152.4	109.9	88.6	63.0	42.4
77.5°	190.4	159.2	136.3	102.8	88.8	61.3	44.8	27.8	20.6	18.1	15.7
80°	85.4	60.8	48.3	33.3	27.8	21.3	18.1	14.6	13.3	11.7	11.0
82.5°	27.3	21.9	20.8	18.5	18.5	14.9	12.8	10.0	9.2	7.8	7.1
85°	11.9	11.0	11.5	10.6	10.7	8.3	6.6	4.9	4.9	3.4	3.1
87.5°	0.4	0.0	0.2	0.0	0.4	0.0	0.2	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°	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
2.5°	79.2	79.6	79.4	78.7	78.5	78.0	76.6	76.9	76.2	76.6	75.7
5°	78.5	78.3	77.6	76.6	75.7	74.6	73.8	73.4	72.8	72.3	71.8
7.5°	77.4	76.6	75.4	73.9	72.8	71.2	70.4	69.2	68.9	67.6	67.5
10°	77.1	75.7	74.3	72.5	70.2	68.1	67.9	65.8	65.6	63.6	63.0
12.5°	77.7	76.2	74.3	72.1	69.6	66.5	66.5	63.2	63.0	60.3	59.4
15°	79.2	77.3	74.9	72.3	69.0	65.1	65.0	61.3	60.8	57.5	56.4
17.5°	80.5	77.7	75.5	72.1	68.3	63.9	63.0	59.2	58.5	54.7	53.2
20°	81.5	78.3	75.7	71.8	67.0	61.9	60.6	56.6	55.0	51.2	49.1
22.5°	82.6	79.6	76.2	71.5	66.4	60.3	57.5	53.9	51.6	47.5	44.8
25°	84.1	81.6	77.4	72.1	65.8	58.7	55.0	51.2	47.9	43.8	39.9
27.5°	86.7	84.1	79.2	72.9	65.6	57.0	53.0	48.3	44.3	39.9	35.3
30°	90.4	87.7	82.4	74.9	65.8	55.8	50.8	45.7	41.1	35.9	31.1
32.5°	95.1	93.0	86.3	77.1	66.5	54.7	48.8	43.0	37.2	32.2	28.0
35°	101.7	100.3	92.0	81.3	68.3	54.1	46.8	40.4	33.9	28.9	24.4
37.5°	111.3	109.3	100.3	87.2	71.2	53.7	45.4	37.3	31.1	25.9	22.1
40°	123.4	120.7	109.9	94.5	75.7	53.9	44.1	34.9	28.7	23.2	20.0
42.5°	138.1	134.0	121.7	103.5	80.3	54.3	43.4	32.8	26.9	20.9	18.5
45°	154.5	149.8	135.7	114.5	86.9	55.2	42.8	31.0	25.3	19.3	17.7
47.5°	170.5	166.0	150.1	125.8	93.6	56.9	43.2	29.8	24.3	18.3	16.6
50°	186.2	181.4	162.9	135.7	99.4	59.0	44.6	30.0	24.1	18.1	16.0
52.5°	200.1	194.1	173.8	143.5	103.7	60.5	45.9	30.6	24.3	17.9	15.8
55°	213.9	206.4	182.5	149.7	106.2	60.6	45.9	30.8	24.4	17.9	15.7
57.5°	224.3	215.6	189.3	153.4	107.1	59.7	44.8	29.8	23.4	17.7	15.3
60°	230.8	221.7	194.0	155.8	105.8	56.0	39.0	26.4	20.6	16.3	14.2
62.5°	236.3	226.9	195.4	151.7	95.1	44.5	30.5	21.5	17.1	14.6	13.1
65°	237.5	226.5	185.2	134.0	74.3	30.8	22.1	17.0	14.0	12.9	11.9
67.5°	218.2	204.9	155.8	104.9	50.7	21.1	16.3	13.8	11.9	11.5	11.0
70°	177.4	162.9	114.1	68.7	28.3	14.7	12.6	11.5	10.4	10.4	9.8
72.5°	114.4	99.3	58.5	29.4	14.5	11.3	10.2	9.8	8.9	9.2	8.5
74°	58.5	45.5	23.9	15.5	11.9	10.0	9.2	8.9	8.1	8.3	7.6
75°	29.7	23.4	16.8	12.9	10.9	9.5	8.4	8.4	7.3	7.5	7.0
77.5°	13.8	13.3	11.5	10.2	9.3	8.1	7.0	6.7	5.7	6.0	5.3
80°	9.6	9.6	8.9	8.5	7.6	6.6	5.3	5.3	4.2	4.4	3.9
82.5°	5.5	5.1	5.1	5.7	6.0	4.9	3.9	3.6	3.1	3.1	2.5
85°	2.3	2.8	3.2	4.0	4.4	3.9	2.8	2.5	1.7	1.7	0.9
87.5°	0.0	0.2	0.2	0.4	0.7	0.7	0.0	0.4	0.0	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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6	79.6
2.5°	76.2	75.2	75.7	74.9	75.2	74.3	74.6	74.1	73.6	72.9	72.8
5°	71.2	70.4	70.2	69.3	69.6	68.9	68.1	67.2	66.1	64.7	64.0
7.5°	65.8	65.6	64.3	63.8	63.0	62.3	61.1	59.6	57.4	55.3	54.1
10°	61.1	60.5	58.7	57.7	56.6	55.8	53.9	51.9	48.8	45.7	44.1
12.5°	57.0	56.2	53.9	52.8	51.2	50.0	47.9	45.4	41.1	36.7	34.7
15°	53.7	52.6	49.9	48.3	46.2	44.9	42.6	39.0	33.7	29.1	26.4
17.5°	49.9	48.5	45.5	43.6	41.3	39.3	37.0	33.1	27.2	23.0	20.2
20°	45.7	43.8	40.9	38.1	35.8	33.9	31.5	27.7	21.6	18.3	17.0
22.5°	41.3	38.4	35.8	33.3	30.6	28.7	26.4	23.0	18.3	16.6	16.0
25°	36.8	33.5	30.8	28.5	25.9	24.3	22.2	19.5	16.8	16.2	16.2
27.5°	32.2	28.9	26.4	24.1	21.9	20.8	19.0	17.1	15.8	16.0	16.2
30°	28.0	24.7	22.4	20.6	18.5	17.9	16.3	15.3	15.1	15.7	15.8
32.5°	24.4	21.5	19.3	17.9	16.2	15.8	14.6	14.0	14.6	15.3	15.1
35°	21.3	19.0	16.8	15.8	14.5	14.2	13.3	12.9	13.7	14.6	14.6
37.5°	19.0	16.8	15.1	14.5	13.3	13.1	12.4	11.9	12.6	13.8	14.2
40°	17.0	15.7	14.0	13.3	12.6	12.1	11.9	11.5	11.7	13.3	13.5
42.5°	15.7	14.7	13.3	12.9	11.9	11.9	11.3	10.9	11.0	12.4	12.9
45°	14.7	14.0	12.8	12.6	11.7	11.5	10.9	10.6	10.7	11.9	12.4
47.5°	14.0	13.3	12.1	11.9	11.3	11.0	10.7	10.4	10.4	11.5	11.9
50°	13.7	12.9	11.9	11.5	10.9	10.7	10.4	10.0	10.2	11.0	11.5
52.5°	13.5	12.6	11.7	11.0	10.7	10.4	10.0	9.6	9.8	10.7	11.0
55°	13.5	12.4	11.7	11.0	10.6	10.0	9.8	9.3	9.6	10.4	10.9
57.5°	13.5	12.4	11.7	11.0	10.7	10.2	9.8	9.5	9.6	10.4	10.9
60°	13.1	12.1	11.9	11.3	11.0	10.6	10.4	10.0	10.0	10.9	11.9
62.5°	12.6	11.9	11.9	11.5	11.5	11.0	11.0	10.7	10.7	11.9	12.8
65°	11.9	11.5	11.7	11.5	11.5	11.5	11.3	11.3	11.3	12.1	13.3
67.5°	11.0	10.9	11.0	11.0	11.3	11.0	11.3	11.0	11.0	11.9	13.1
70°	10.0	10.0	10.2	10.0	10.2	10.2	10.4	10.4	10.4	10.9	11.9
72.5°	8.7	8.5	8.7	8.5	8.9	8.5	8.9	9.2	8.9	9.2	9.6
74°	7.8	7.6	7.8	7.6	8.1	7.6	7.8	7.8	7.6	6.2	5.3
75°	7.1	7.0	7.1	7.0	7.3	7.0	7.3	7.1	6.7	4.5	4.4
77.5°	5.7	5.1	5.7	5.1	5.5	4.9	5.3	4.5	3.4	3.2	3.2
80°	4.2	3.6	4.0	3.4	3.2	2.5	2.8	2.5	2.3	2.5	2.5
82.5°	2.5	1.9	2.2	1.7	2.0	1.4	1.9	1.7	1.4	1.4	1.4
85°	1.3	0.9	1.3	0.7	1.1	0.7	0.9	0.9	0.6	0.6	0.6
87.5°	0.2	0.0	0.4	0.0	0.4	0.0	0.2	0.2	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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	175°	180°
0°	79.6	79.6
2.5°	72.1	72.3
5°	63.2	63.8
7.5°	53.4	53.7
10°	43.0	43.4
12.5°	33.1	33.5
15°	25.0	24.6
17.5°	19.1	18.8
20°	16.2	16.2
22.5°	15.8	15.7
25°	16.0	15.8
27.5°	16.0	15.8
30°	15.7	15.5
32.5°	15.1	14.9
35°	14.6	14.6
37.5°	14.2	14.5
40°	13.7	13.8
42.5°	13.1	13.3
45°	12.6	12.8
47.5°	11.9	11.9
50°	11.3	11.3
52.5°	11.0	11.0
55°	11.0	11.0
57.5°	11.5	11.5
60°	12.6	12.8
62.5°	14.7	14.9
65°	17.0	17.2
67.5°	17.1	17.7
70°	16.6	17.1
72.5°	11.5	11.5
74°	5.1	4.9
75°	4.4	4.2
77.5°	3.2	3.2
80°	2.3	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)