

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: P228341

Luminaire Tested: **ISS-AF-XXX-LED-E1-SL4-8030-XXB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P228341  
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-SL4-8030-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) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 458 lumens  
Efficiency: N/A  
Efficacy: 35.2 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

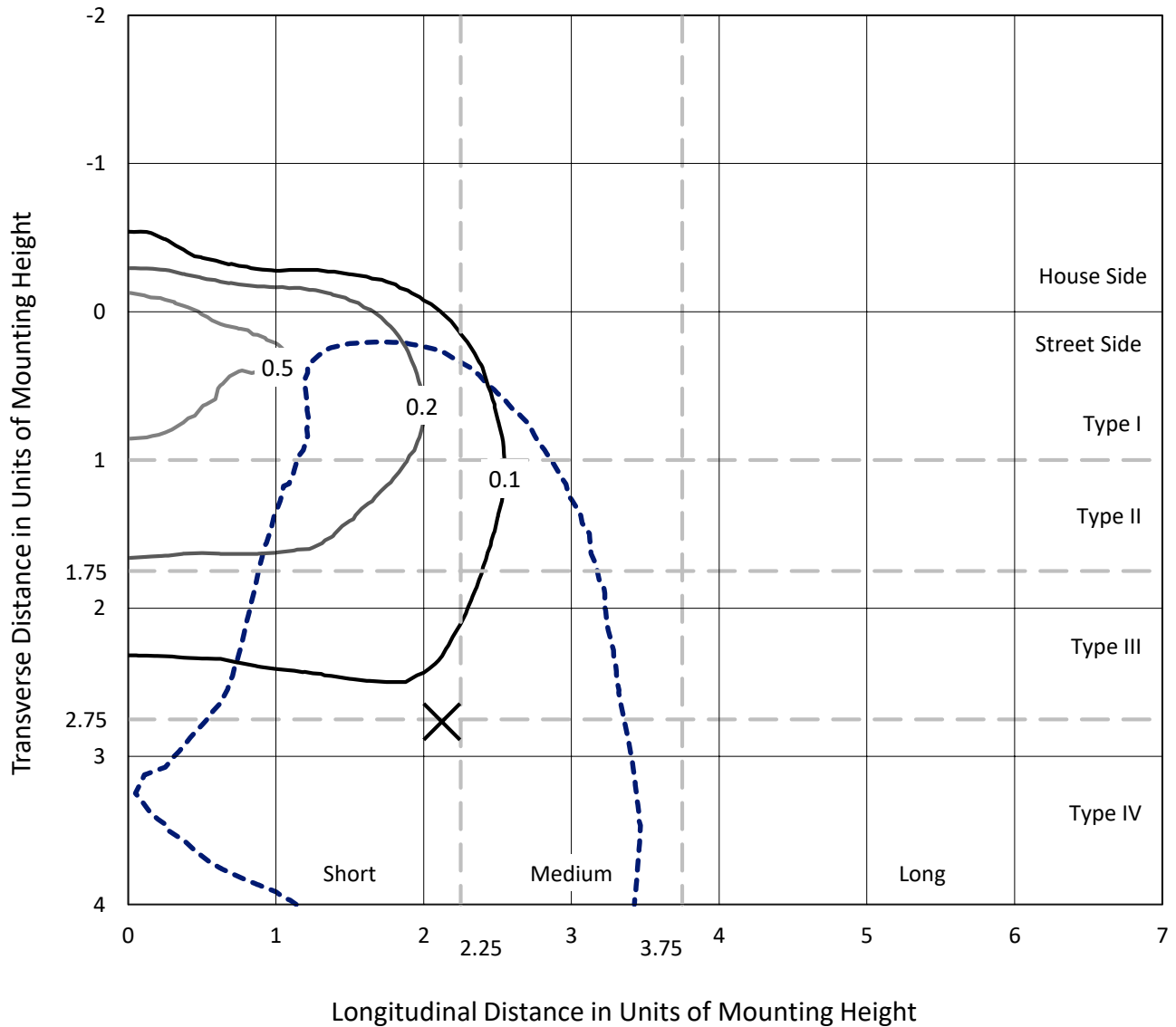


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### Iso-Footcandle Lines of Horizontal Illumination

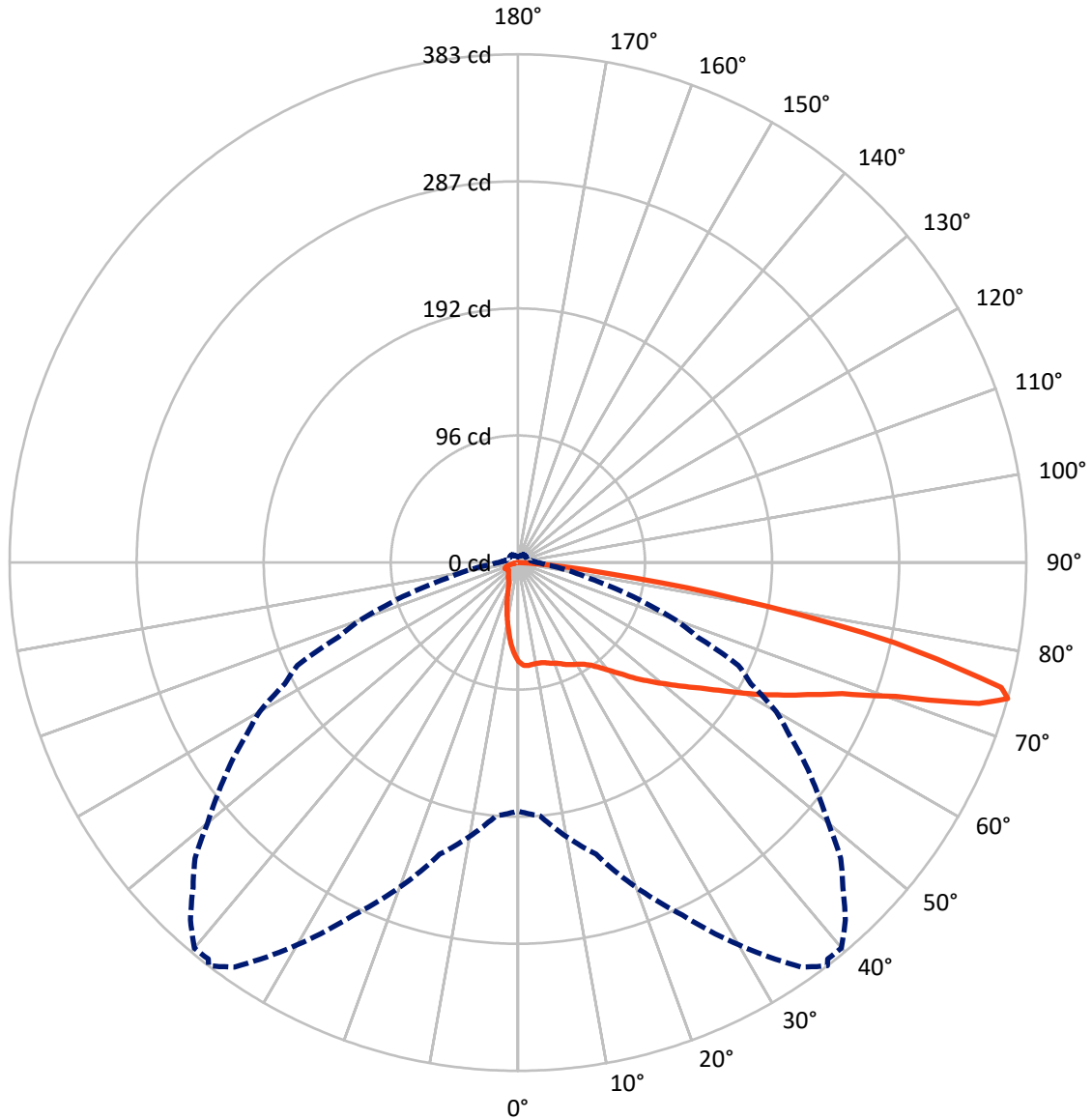
× Max cd  
 - - - 1/2 Max cd



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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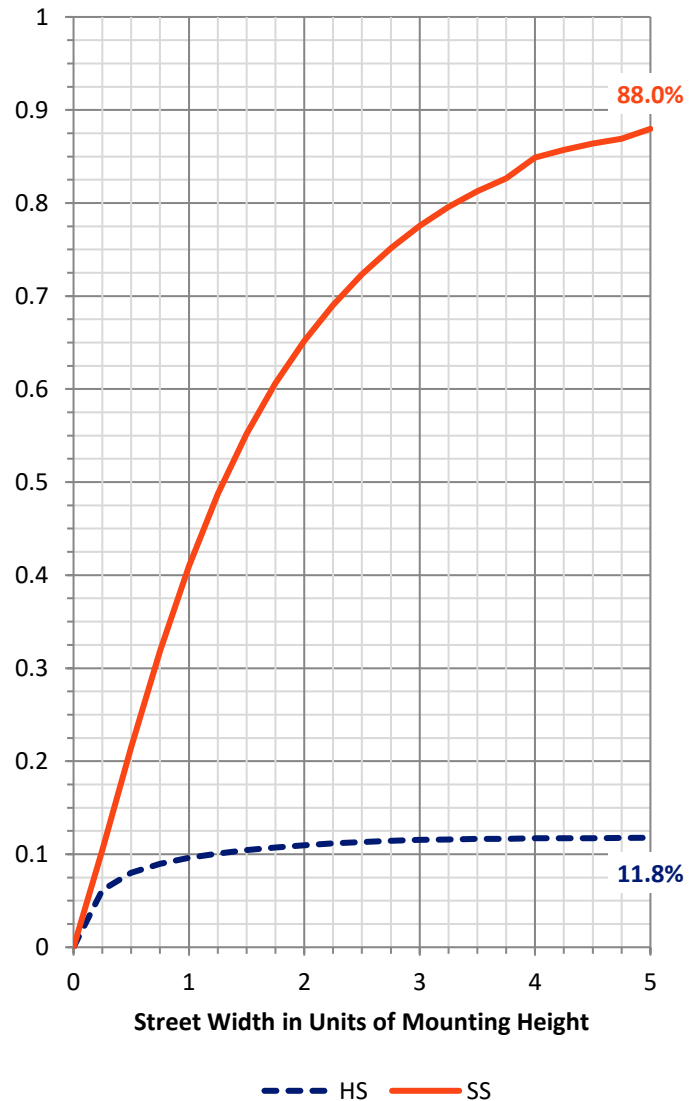
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	54.3	0.0	54.3
	% Fixture	11.9	0.0	11.9
<b>Street Side</b>	Lumens	403.7	0.0	403.7
	% Fixture	88.1	0.0	88.1
<b>Total</b>	Lumens	458.0	0.0	458.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.5	1.4
10°-20°	16.6	3.6
20°-30°	25.7	5.6
30°-40°	38.1	8.3
40°-50°	58.6	12.8
50°-60°	86.6	18.9
60°-70°	115.5	25.2
70°-80°	99.7	21.8
80°-90°	10.7	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°	458.0	100.0
0°-180°	458.0	100.0



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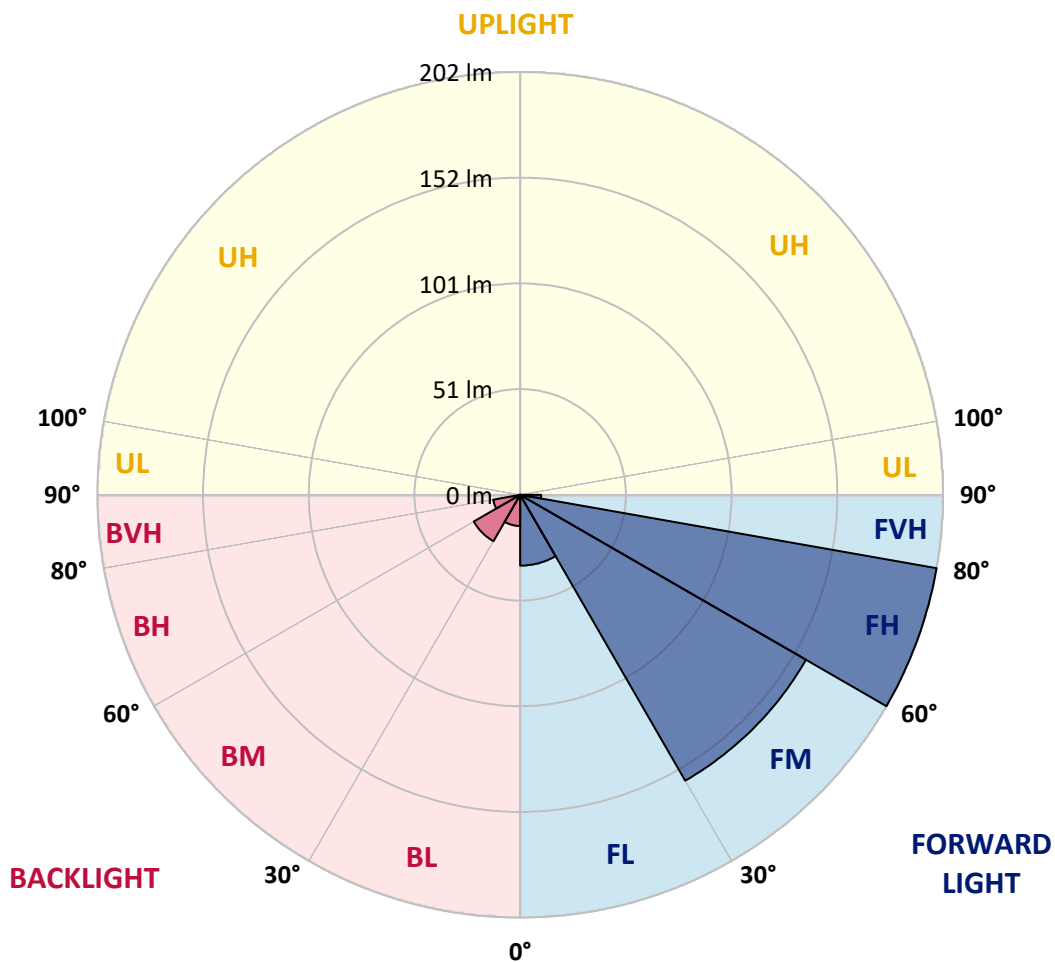
CATALOG NUMBER: ISS-AF-XXX-LED-E1-SL4-8030-XXB

**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	33.9	7.4			
FM	(30°-60°)	157.7	34.4			
FH	(60°-80°)	202.1	44.1			G0/660
FVH	(80°-90°)	10.0	2.2			G1/100
BL	(0°-30°)	14.9	3.3	B0/110		
BM	(30°-60°)	25.6	5.6	B0/220		
BH	(60°-80°)	13.1	2.9	B0/110		G0/110
BVH	(80°-90°)	0.7	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°	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
2.5°	79.0	78.8	78.5	78.3	78.0	77.5	78.0	77.3	77.0	77.3	76.6
5°	80.4	80.2	79.9	79.2	78.8	78.0	78.5	77.6	77.5	77.8	77.0
7.5°	80.6	80.2	79.7	78.8	78.5	77.5	77.8	76.8	76.4	76.8	76.3
10°	80.0	79.9	79.4	78.0	77.6	77.3	77.1	76.4	76.3	76.1	75.9
12.5°	79.2	79.2	78.8	78.3	78.2	77.5	77.6	77.0	77.1	76.8	76.4
15°	78.8	78.7	79.0	79.4	79.4	78.3	79.0	78.5	78.2	78.3	77.8
17.5°	78.5	78.7	79.9	80.6	80.9	79.9	80.9	79.9	79.2	80.0	79.2
20°	78.3	78.8	80.9	82.4	82.6	80.9	82.6	80.9	80.9	81.9	80.4
22.5°	79.2	80.0	82.9	84.7	85.0	82.8	84.8	82.6	82.6	83.5	81.9
25°	81.9	82.8	86.0	87.9	87.6	85.2	87.1	84.8	84.7	85.7	83.6
27.5°	85.5	86.7	89.8	91.5	90.3	87.1	89.8	86.5	86.5	88.1	85.3
30°	90.6	91.5	94.2	94.4	92.9	88.9	92.0	88.4	87.9	90.6	87.2
32.5°	96.3	97.0	99.0	97.8	95.6	91.5	95.1	90.8	90.6	93.6	89.6
35°	102.3	103.0	103.6	101.6	99.5	95.1	99.0	94.7	94.6	97.8	94.1
37.5°	108.4	108.4	108.4	106.0	104.7	100.4	104.0	100.6	100.2	103.6	100.1
40°	113.4	113.7	113.2	111.0	110.3	107.2	110.3	107.2	107.7	110.8	107.9
42.5°	117.5	117.8	118.0	116.1	116.8	115.1	117.5	115.3	115.4	118.9	117.2
45°	121.6	121.4	122.8	122.3	124.3	124.5	125.9	125.0	125.4	127.9	127.4
47.5°	125.9	125.0	126.6	128.8	132.5	133.7	134.6	134.9	136.3	137.5	138.7
50°	130.0	129.1	130.2	135.1	141.1	143.7	143.8	145.5	147.1	148.8	151.2
52.5°	134.3	133.6	134.6	141.6	151.2	154.8	154.3	157.2	159.4	161.3	165.2
55°	138.7	138.0	139.0	149.5	162.0	166.9	166.4	170.5	174.8	175.5	179.9
57.5°	143.0	142.1	145.0	158.7	174.8	182.3	179.9	186.2	190.4	190.0	196.2
60°	147.6	146.9	151.5	170.0	190.9	200.6	197.0	205.4	208.3	207.1	212.9
62.5°	152.0	151.9	159.6	183.2	210.4	219.8	216.5	223.9	225.9	224.4	227.3
65°	156.1	157.2	168.3	196.3	229.2	239.9	235.5	242.9	245.3	244.1	249.0
67.5°	163.0	164.2	179.1	213.1	252.4	263.6	259.8	267.5	271.1	270.7	276.2
70°	173.1	175.3	195.0	236.9	287.8	302.0	300.0	309.4	318.1	317.4	322.9
72.5°	190.7	194.3	221.1	273.8	346.0	363.3	360.9	366.2	364.6	352.1	342.1
74°	187.3	191.7	227.6	293.1	372.2	383.1	379.2	379.3	365.3	346.3	330.1
75°	174.8	179.4	218.2	290.7	370.3	376.3	370.6	363.6	346.7	327.3	307.3
77.5°	119.9	125.9	160.4	234.8	298.1	289.9	288.5	275.2	252.8	231.1	205.4
80°	61.4	65.7	82.9	122.8	176.8	168.6	171.4	160.6	142.0	126.2	100.1
82.5°	14.7	15.7	24.5	47.5	76.6	70.1	71.1	62.9	52.2	42.6	33.0
85°	7.7	8.7	12.0	13.2	20.2	20.9	20.4	19.7	16.1	13.5	11.8
87.5°	0.0	0.0	0.0	0.3	0.2	0.0	0.2	0.0	0.0	0.2	0.3
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°	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
2.5°	77.1	76.8	77.1	76.1	76.6	75.8	76.1	75.3	75.6	74.9	75.1
5°	77.5	76.6	77.1	76.3	76.4	75.8	75.6	75.3	75.1	74.6	74.2
7.5°	76.6	75.9	75.8	75.4	74.9	75.1	74.4	74.2	73.7	73.7	72.7
10°	75.8	75.9	74.9	75.3	74.4	74.6	73.4	73.7	72.9	73.5	72.0
12.5°	76.4	76.6	75.8	76.3	74.7	75.1	74.1	74.6	73.4	74.2	72.3
15°	78.0	77.8	77.5	77.5	75.9	76.6	75.4	75.8	74.6	75.6	73.5
17.5°	79.4	79.2	78.7	78.5	77.5	77.6	76.4	77.1	75.8	76.6	74.6
20°	80.9	80.0	79.9	79.7	78.5	78.5	77.6	78.0	76.6	77.6	75.3
22.5°	82.1	81.4	81.2	80.6	79.7	80.0	78.8	79.0	77.6	78.7	76.6
25°	84.0	83.1	83.1	82.1	81.6	81.4	80.7	81.2	79.9	80.6	78.7
27.5°	86.5	84.7	85.3	84.3	84.0	83.8	83.5	83.8	82.8	83.3	81.4
30°	88.9	86.5	87.6	86.2	86.9	86.2	86.7	86.2	86.2	86.2	85.3
32.5°	92.2	89.3	91.3	89.3	90.6	89.6	91.3	90.3	91.0	90.8	90.5
35°	96.8	93.4	96.3	93.6	95.9	94.6	97.0	96.5	97.8	97.1	97.8
37.5°	103.0	99.4	102.8	100.2	103.1	101.1	104.5	104.2	107.1	106.0	107.1
40°	110.7	108.1	110.7	108.8	111.9	111.0	114.6	114.8	118.0	117.5	118.7
42.5°	119.2	117.3	119.9	118.9	121.9	122.6	126.7	127.8	130.8	131.7	131.9
45°	128.4	128.1	130.2	131.2	134.3	136.3	139.9	142.5	145.9	147.8	147.4
47.5°	139.2	140.6	142.0	144.5	147.3	151.5	155.1	158.4	162.3	163.5	164.0
50°	151.4	153.8	154.9	158.5	161.3	166.6	171.5	175.6	179.9	179.4	179.7
52.5°	164.2	167.3	169.0	173.2	176.8	183.0	187.3	191.2	196.5	195.1	194.6
55°	178.4	183.0	184.4	189.2	192.2	198.6	202.3	209.2	211.4	210.0	207.1
57.5°	193.4	198.9	200.4	206.9	208.5	215.3	218.6	223.2	225.1	222.8	219.1
60°	210.5	215.5	216.7	222.5	224.6	230.9	233.3	237.4	238.8	233.3	228.0
62.5°	227.6	232.8	233.5	238.6	240.6	246.1	248.8	251.2	250.6	242.5	235.8
65°	247.1	252.1	253.8	258.9	260.1	264.2	266.5	263.7	262.2	250.0	242.5
67.5°	278.1	283.4	284.1	285.3	285.1	283.0	282.0	272.6	265.8	243.4	232.6
70°	318.8	314.9	307.2	298.3	291.8	280.1	273.3	254.0	239.6	214.5	196.3
72.5°	326.1	313.3	294.3	279.1	263.4	245.1	230.4	201.1	180.9	154.6	135.5
74°	305.3	284.4	264.4	243.0	224.9	198.2	183.3	146.4	126.4	99.7	76.4
75°	280.1	255.7	233.1	205.9	189.0	157.0	143.0	103.1	83.1	59.2	39.8
77.5°	178.7	149.5	127.9	96.5	83.3	57.5	42.1	26.2	19.3	16.9	14.7
80°	80.2	57.1	45.3	31.3	26.2	20.0	16.9	13.7	12.5	10.9	10.4
82.5°	25.7	20.5	19.5	17.4	17.4	14.0	12.0	9.4	8.6	7.4	6.7
85°	11.1	10.4	10.8	9.9	10.1	7.7	6.2	4.6	4.6	3.2	2.9
87.5°	0.3	0.0	0.2	0.0	0.3	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°	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
2.5°	74.4	74.7	74.6	73.9	73.7	73.2	72.0	72.2	71.5	72.0	71.1
5°	73.7	73.5	72.9	72.0	71.1	70.1	69.3	68.9	68.2	67.9	67.4
7.5°	72.7	72.0	70.8	69.4	68.2	66.9	66.2	65.0	64.6	63.5	63.3
10°	72.3	71.1	69.8	68.1	66.0	64.0	63.8	61.7	61.6	59.7	59.2
12.5°	73.0	71.5	69.8	67.7	65.3	62.4	62.4	59.3	59.2	56.6	55.8
15°	74.4	72.5	70.3	67.9	64.8	61.2	61.1	57.5	57.1	54.0	53.0
17.5°	75.6	73.0	71.0	67.7	64.1	60.0	59.2	55.6	54.9	51.3	49.9
20°	76.4	73.5	71.1	67.4	62.9	58.1	57.0	53.2	51.6	48.1	46.2
22.5°	77.5	74.7	71.5	67.2	62.3	56.6	54.0	50.6	48.4	44.6	42.1
25°	79.0	76.6	72.7	67.7	61.7	55.1	51.6	48.1	45.0	41.2	37.5
27.5°	81.4	79.0	74.4	68.4	61.6	53.5	49.8	45.3	41.6	37.5	33.2
30°	84.8	82.3	77.3	70.3	61.7	52.3	47.7	42.9	38.5	33.7	29.2
32.5°	89.3	87.2	81.1	72.3	62.4	51.3	45.8	40.4	34.9	30.3	26.3
35°	95.4	94.1	86.4	76.3	64.1	50.8	44.0	38.0	31.8	27.2	22.9
37.5°	104.5	102.6	94.1	81.9	66.9	50.5	42.6	35.1	29.2	24.3	20.7
40°	116.0	113.4	103.1	88.8	71.1	50.6	41.4	32.8	27.0	21.7	18.8
42.5°	129.6	125.9	114.2	97.1	75.4	51.0	40.7	30.8	25.3	19.7	17.4
45°	145.0	140.8	127.4	107.6	81.6	51.8	40.2	29.1	23.8	18.1	16.6
47.5°	160.1	155.8	140.9	118.0	87.9	53.4	40.5	28.0	22.7	17.3	15.6
50°	174.8	170.3	152.9	127.4	93.4	55.4	41.9	28.2	22.6	16.9	15.1
52.5°	187.8	182.3	163.2	134.8	97.3	56.8	43.1	28.7	22.7	16.8	14.9
55°	200.8	193.8	171.4	140.6	99.7	57.0	43.1	28.9	22.9	16.8	14.7
57.5°	210.5	202.5	177.7	144.0	100.6	56.1	42.1	28.0	21.9	16.6	14.4
60°	216.7	208.1	182.1	146.2	99.4	52.5	36.6	24.8	19.3	15.4	13.3
62.5°	221.8	213.1	183.5	142.5	89.3	41.7	28.6	20.2	16.1	13.7	12.3
65°	223.0	212.6	173.9	125.9	69.8	28.9	20.7	15.9	13.2	12.1	11.1
67.5°	204.9	192.4	146.2	98.5	47.5	19.8	15.4	13.0	11.3	10.8	10.4
70°	166.6	152.9	107.1	64.5	26.5	13.9	11.8	10.8	9.7	9.7	9.2
72.5°	107.4	93.2	54.9	27.5	13.5	10.6	9.6	9.2	8.4	8.6	8.0
74°	54.9	42.8	22.4	14.5	11.1	9.4	8.6	8.4	7.5	7.7	7.2
75°	27.9	22.1	15.7	12.1	10.3	8.9	7.9	7.9	6.8	7.0	6.5
77.5°	13.0	12.5	10.8	9.6	8.7	7.5	6.5	6.3	5.3	5.6	5.0
80°	9.1	9.1	8.4	8.0	7.2	6.2	5.0	5.0	3.9	4.1	3.6
82.5°	5.1	4.8	4.8	5.5	5.6	4.6	3.6	3.4	2.9	2.9	2.4
85°	2.2	2.6	3.1	3.8	4.1	3.6	2.6	2.4	1.5	1.5	0.9
87.5°	0.0	0.2	0.2	0.3	0.7	0.7	0.0	0.3	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°	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7	74.7
2.5°	71.5	70.6	71.1	70.3	70.6	69.8	70.1	69.6	69.1	68.4	68.2
5°	66.9	66.2	66.0	65.2	65.3	64.6	64.0	63.1	62.1	60.7	60.2
7.5°	61.7	61.6	60.4	59.9	59.2	58.5	57.3	55.9	53.9	52.0	50.8
10°	57.3	56.8	55.1	54.2	53.2	52.3	50.6	48.7	45.8	42.9	41.4
12.5°	53.5	52.8	50.6	49.6	48.1	47.0	45.0	42.6	38.5	34.4	32.5
15°	50.5	49.4	46.9	45.3	43.3	42.2	40.0	36.6	31.6	27.4	24.8
17.5°	46.9	45.5	42.8	40.9	38.8	36.9	34.7	31.1	25.5	21.5	19.0
20°	42.9	41.2	38.3	35.7	33.5	31.8	29.6	26.0	20.4	17.3	15.9
22.5°	38.8	36.1	33.5	31.3	28.7	27.0	24.8	21.5	17.3	15.6	15.1
25°	34.5	31.5	28.9	26.7	24.3	22.7	20.9	18.3	15.7	15.2	15.2
27.5°	30.3	27.2	24.8	22.6	20.5	19.5	17.8	16.1	14.9	15.1	15.2
30°	26.3	23.3	21.0	19.3	17.4	16.8	15.4	14.4	14.2	14.7	14.9
32.5°	22.9	20.2	18.1	16.8	15.2	14.9	13.7	13.2	13.7	14.4	14.2
35°	20.0	17.8	15.7	14.9	13.5	13.3	12.5	12.1	12.8	13.7	13.7
37.5°	17.8	15.7	14.2	13.5	12.5	12.3	11.6	11.3	11.8	13.0	13.3
40°	15.9	14.7	13.2	12.5	11.8	11.5	11.1	10.8	10.9	12.5	12.7
42.5°	14.7	13.9	12.5	12.1	11.3	11.1	10.6	10.3	10.4	11.6	12.1
45°	13.9	13.2	12.0	11.8	10.9	10.8	10.3	9.9	10.1	11.1	11.6
47.5°	13.2	12.5	11.5	11.1	10.6	10.4	10.1	9.7	9.7	10.8	11.3
50°	12.8	12.1	11.1	10.8	10.3	10.1	9.7	9.4	9.6	10.4	10.8
52.5°	12.7	11.8	10.9	10.4	10.1	9.7	9.4	9.1	9.2	10.1	10.4
55°	12.7	11.6	10.9	10.4	9.9	9.4	9.2	8.7	9.1	9.7	10.3
57.5°	12.7	11.6	10.9	10.4	10.1	9.6	9.2	8.9	9.1	9.7	10.3
60°	12.3	11.5	11.1	10.6	10.4	9.9	9.7	9.4	9.4	10.3	11.1
62.5°	11.8	11.3	11.1	10.8	10.8	10.4	10.4	10.1	10.1	11.1	12.0
65°	11.1	10.8	10.9	10.8	10.8	10.8	10.6	10.6	10.6	11.5	12.5
67.5°	10.4	10.3	10.4	10.4	10.6	10.4	10.6	10.4	10.4	11.3	12.3
70°	9.4	9.4	9.6	9.4	9.6	9.6	9.7	9.7	9.7	10.3	11.3
72.5°	8.2	8.0	8.2	8.0	8.4	8.0	8.4	8.6	8.4	8.6	9.1
74°	7.4	7.2	7.4	7.2	7.5	7.2	7.4	7.4	7.2	5.8	5.0
75°	6.7	6.5	6.7	6.5	6.8	6.5	6.8	6.7	6.3	4.3	4.1
77.5°	5.3	4.8	5.3	4.8	5.1	4.6	5.0	4.3	3.2	3.1	3.1
80°	3.9	3.4	3.8	3.2	3.1	2.4	2.6	2.4	2.2	2.4	2.4
82.5°	2.4	1.7	2.1	1.5	1.9	1.4	1.7	1.5	1.4	1.4	1.4
85°	1.2	0.9	1.2	0.7	1.0	0.7	0.9	0.9	0.5	0.5	0.5
87.5°	0.2	0.0	0.3	0.0	0.3	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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**CANDELA DISTRIBUTION (continued):**

	175°	180°
0°	74.7	74.7
2.5°	67.7	67.9
5°	59.3	59.9
7.5°	50.1	50.5
10°	40.4	40.7
12.5°	31.1	31.5
15°	23.4	23.1
17.5°	18.0	17.6
20°	15.2	15.2
22.5°	14.9	14.7
25°	15.1	14.9
27.5°	15.1	14.9
30°	14.7	14.5
32.5°	14.2	14.0
35°	13.7	13.7
37.5°	13.3	13.5
40°	12.8	13.0
42.5°	12.3	12.5
45°	11.8	12.0
47.5°	11.3	11.3
50°	10.6	10.6
52.5°	10.4	10.4
55°	10.4	10.4
57.5°	10.8	10.8
60°	11.8	12.0
62.5°	13.9	14.0
65°	15.9	16.2
67.5°	16.1	16.6
70°	15.6	16.1
72.5°	10.8	10.8
74°	4.8	4.6
75°	4.1	3.9
77.5°	3.1	3.1
80°	2.2	2.1
82.5°	1.2	1.2
85°	0.3	0.3
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)