

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: P227644

Luminaire Tested: **ISC-AF-XXX-LED-E1-T2-8030-XXB**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P227644  
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29758)  
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-T2-8030-XXB  
Description: IMPACT ELITE LED CYLINDER LUMINAIRE, EMERGENCY MODE WITH BATTERY  
BACKPACK BOX  
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II  
Light Source: (16) 3000K CCT, 80 CRI LEDs  
Ballast/Driver: ELECTRONIC DRIVER

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 507 lumens  
Efficiency: N/A  
Efficacy: 39.0 lumens/watt  
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')  
IES Classification: Type II - Medium - Non-Cutoff  
BUG Rating: B0 - U0 - G0

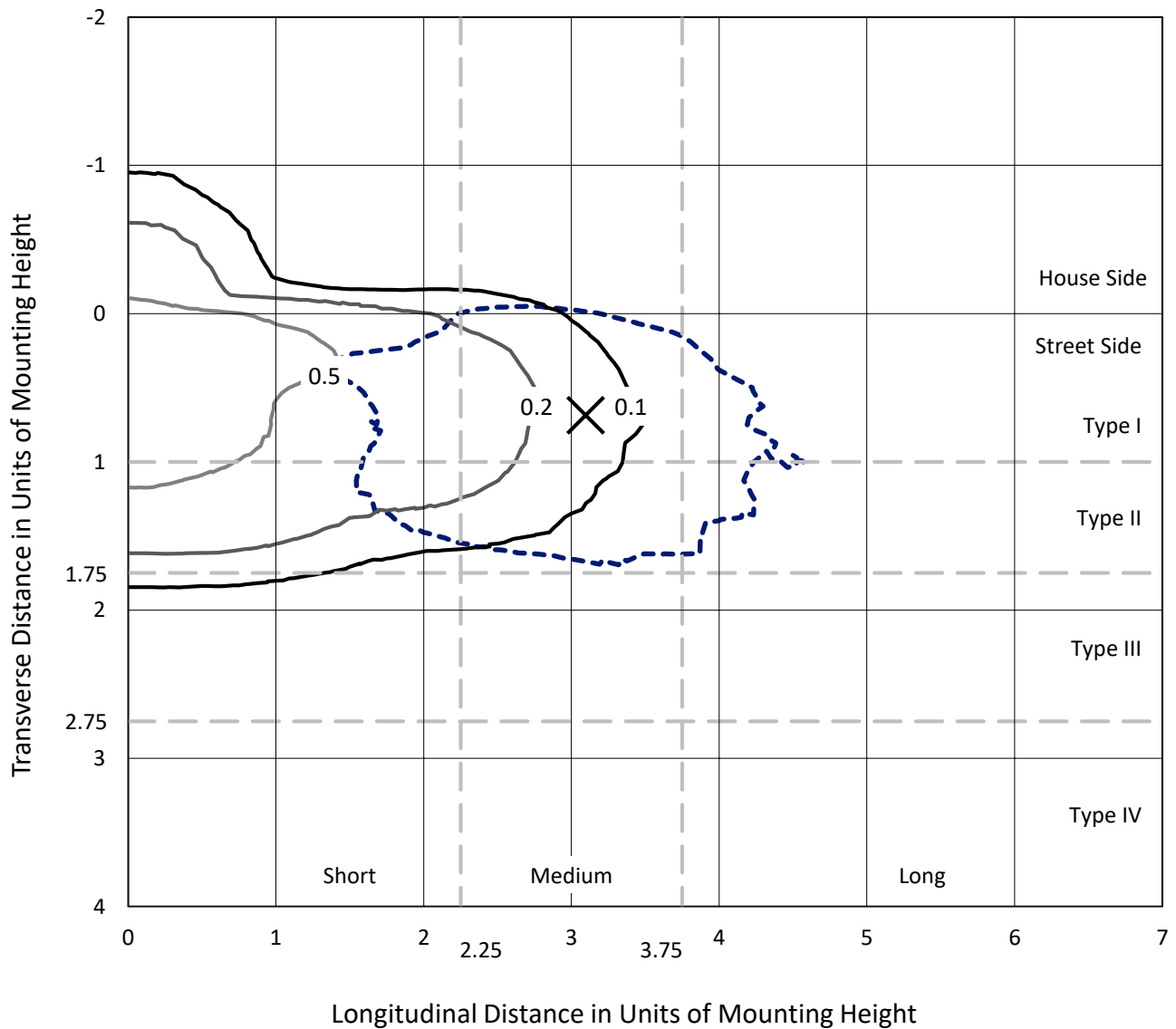
Input Watts (W): 13  
Input Voltage (V): 120  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

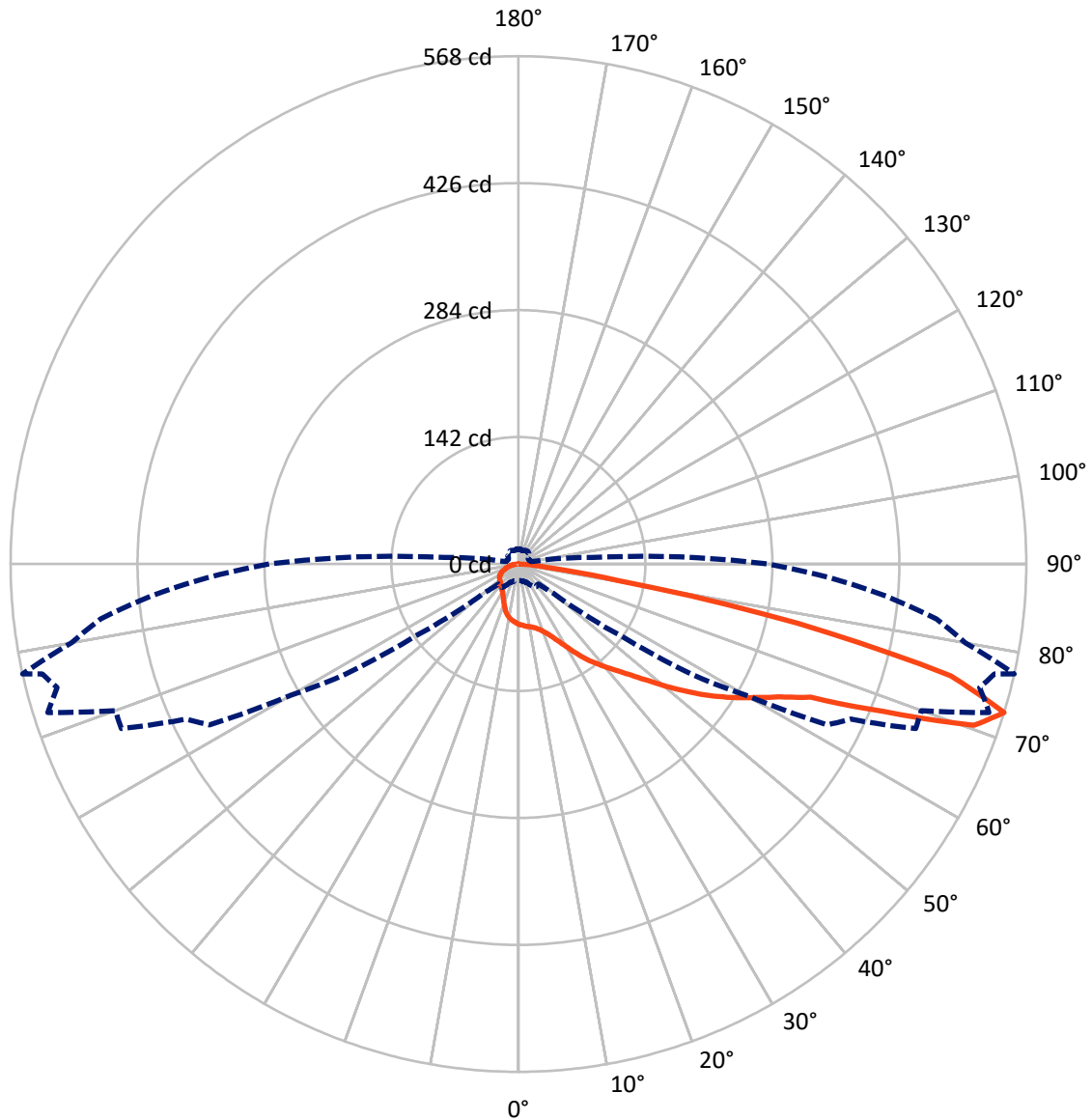
× Max cd  
 - - - 1/2 Max cd



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

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### Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral    - - - Horizontal Cone Through 72.5-Deg Vertical

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**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	84.0	0.0	84.0
	% Fixture	16.6	0.0	16.6
<b>Street Side</b>	Lumens	423.0	0.0	423.0
	% Fixture	83.4	0.0	83.4
<b>Total</b>	Lumens	507.0	0.0	507.0
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	6.3	1.2
10°-20°	19.3	3.8
20°-30°	34.2	6.8
30°-40°	54.2	10.7
40°-50°	81.3	16.0
50°-60°	105.4	20.8
60°-70°	119.8	23.6
70°-80°	79.5	15.7
80°-90°	7.0	1.4
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°	507.0	100.0
0°-180°	507.0	100.0



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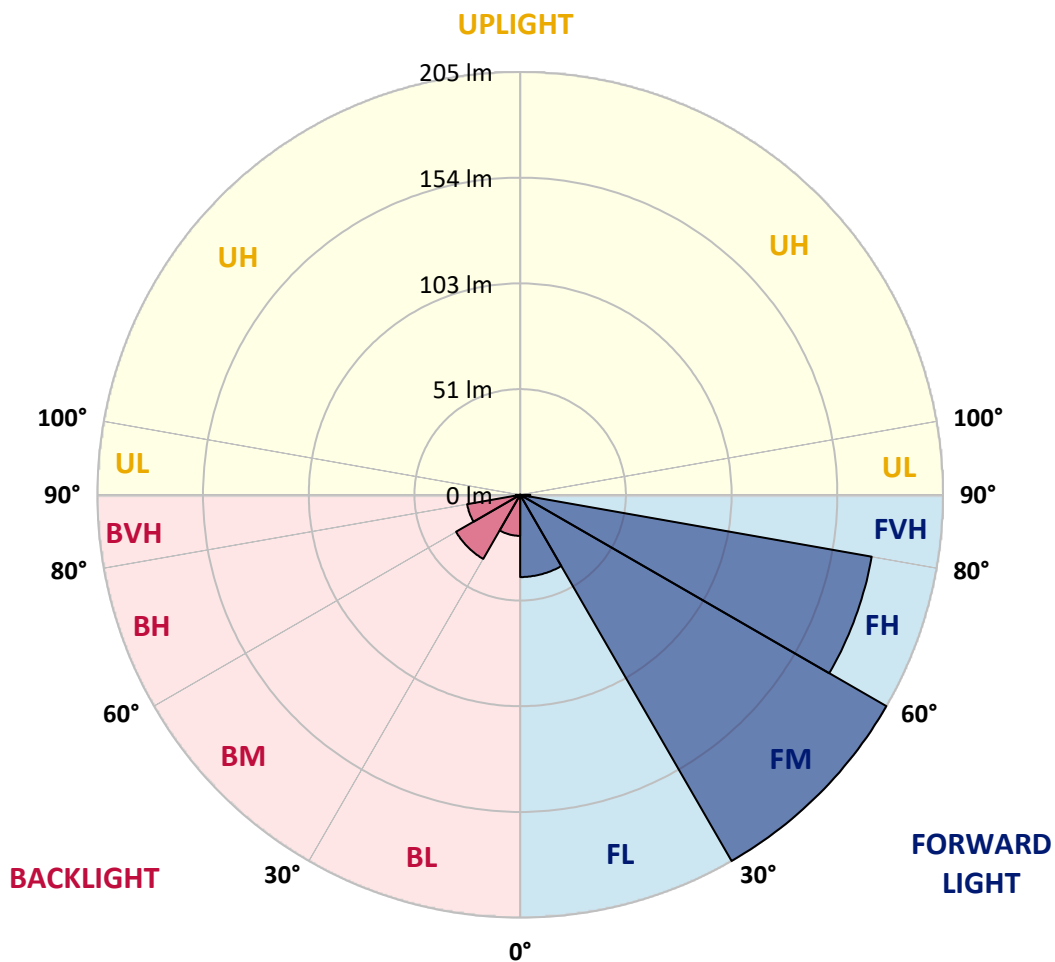
CATALOG NUMBER: ISC-AF-XXX-LED-E1-T2-8030-XXB

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

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	39.9	7.9			
FM (30°-60°)	205.1	40.5			
FH (60°-80°)	173.1	34.1			G0/660
FVH (80°-90°)	4.9	1.0			G0/10
BL (0°-30°)	19.9	3.9	B0/110		
BM (30°-60°)	35.9	7.1	B0/220		
BH (60°-80°)	26.1	5.2	B0/110		G0/110
BVH (80°-90°)	2.1	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 II Medium





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2.5°	73.3	73.0	72.8	72.5	72.1	72.0	71.5	71.1	71.6	71.5	71.5
5°	78.8	78.5	77.9	77.4	76.8	76.2	75.7	75.2	75.6	75.2	74.9
7.5°	83.2	82.9	82.2	81.7	81.0	80.3	79.7	79.5	79.1	78.6	78.5
10°	85.8	85.5	85.1	84.8	83.8	83.2	82.4	81.9	82.1	81.4	81.4
12.5°	88.2	87.9	87.7	87.7	86.8	86.3	86.0	85.5	85.8	84.8	84.4
15°	90.4	90.1	89.6	90.1	89.9	89.7	89.6	89.4	89.9	88.9	89.1
17.5°	94.0	93.8	92.8	92.1	92.3	92.8	93.2	93.0	93.0	92.5	92.7
20°	99.7	99.7	98.3	97.1	95.2	95.2	95.4	95.2	95.6	95.9	96.4
22.5°	103.9	103.6	103.1	102.1	100.0	98.3	98.3	97.6	98.1	98.3	99.3
25°	109.4	109.1	107.9	107.9	105.8	103.6	103.2	102.2	103.4	101.2	102.9
27.5°	116.1	115.7	114.2	113.5	112.5	109.7	109.1	109.2	110.4	107.2	108.9
30°	124.4	124.1	122.2	120.3	118.6	115.7	115.4	115.2	118.0	114.2	116.4
32.5°	135.0	135.0	133.0	130.4	127.0	123.1	121.7	121.9	125.6	121.5	125.3
35°	151.1	149.1	145.3	141.4	137.8	133.2	131.3	130.9	134.4	130.3	134.5
37.5°	161.4	160.0	156.6	153.7	149.7	145.3	143.9	144.4	147.4	141.4	147.5
40°	170.6	170.4	168.2	166.3	162.4	158.0	159.7	166.5	174.2	162.6	162.7
42.5°	176.8	177.1	176.9	177.1	174.9	170.3	173.2	182.7	195.9	189.1	182.7
45°	177.8	179.0	179.5	182.9	185.1	182.4	183.9	194.0	220.3	230.9	202.4
47.5°	180.3	181.5	180.5	184.6	194.9	194.7	200.9	204.6	208.2	209.9	231.5
50°	183.8	186.0	185.0	188.4	196.8	201.5	206.8	211.6	208.7	198.0	203.8
52.5°	183.9	186.5	192.1	195.6	203.8	202.7	206.3	203.8	208.2	197.1	202.7
55°	168.9	169.4	185.8	203.1	217.4	214.5	212.3	206.5	212.1	198.3	205.5
57.5°	145.1	146.8	163.9	193.0	223.8	226.3	225.6	225.1	229.6	211.1	219.0
60°	119.0	121.0	137.3	171.5	210.6	217.3	226.5	232.1	243.6	236.2	249.2
62.5°	74.2	75.7	93.7	136.4	185.8	199.0	212.5	219.1	235.7	239.1	261.2
65°	35.4	35.9	42.9	74.2	135.0	159.8	179.8	194.0	214.4	229.7	259.5
67.5°	27.5	27.7	30.3	39.5	69.2	85.8	108.5	127.4	149.1	191.1	228.0
70°	22.1	22.1	24.1	29.1	42.9	45.1	50.9	57.3	66.5	100.3	130.3
72.5°	18.5	18.5	19.8	22.9	31.8	32.3	32.0	31.5	31.5	39.7	50.6
75°	15.6	15.4	16.2	18.3	23.6	24.3	23.9	22.7	21.4	21.4	24.1
77.5°	12.6	12.6	13.3	14.4	17.1	17.4	17.4	16.4	15.2	15.4	16.6
80°	9.9	9.9	10.4	11.1	12.0	11.8	11.8	10.8	9.9	9.7	10.4
82.5°	7.2	7.4	8.5	8.0	7.7	7.2	7.2	7.0	6.3	5.8	6.2
85°	2.2	2.4	4.1	4.8	3.9	3.2	3.1	2.6	2.7	2.2	2.6
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°	77°
0°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2.5°	70.6	70.9	70.3	70.3	69.4	69.9	69.1	69.2	68.4	68.7	68.7
5°	74.0	74.2	73.3	73.0	72.1	72.1	71.3	71.3	70.1	70.4	70.1
7.5°	77.3	77.3	76.4	75.7	74.9	74.5	73.5	73.0	72.0	71.8	71.3
10°	80.0	80.0	78.8	78.1	77.1	76.6	75.2	74.7	73.5	72.7	72.1
12.5°	83.4	83.1	81.7	81.0	79.3	79.1	77.1	76.8	75.0	74.5	73.7
15°	87.5	87.9	85.6	85.5	83.1	82.9	80.2	80.0	77.4	77.3	76.1
17.5°	92.0	92.7	90.8	90.6	87.7	87.7	84.4	84.3	80.9	80.7	79.1
20°	95.9	96.8	95.6	95.9	93.3	93.5	89.9	89.9	85.1	84.8	83.4
22.5°	99.5	101.2	100.2	102.1	99.5	100.7	95.9	96.8	91.1	90.4	88.4
25°	103.1	105.3	105.0	108.0	106.2	108.2	103.2	105.0	97.6	98.1	95.4
27.5°	106.7	109.6	109.2	113.7	113.0	117.1	112.8	114.7	106.7	107.2	104.1
30°	112.7	115.9	114.7	119.3	119.3	126.0	122.7	125.6	116.8	117.8	114.2
32.5°	120.7	124.4	120.9	126.8	126.5	135.2	132.7	137.6	128.9	130.3	125.8
35°	129.4	135.4	129.6	136.2	135.2	144.3	142.6	150.6	141.4	142.9	138.5
37.5°	140.9	148.0	140.3	146.2	141.5	152.0	150.9	161.9	152.5	156.4	151.1
40°	154.4	160.0	150.4	155.4	147.7	158.5	156.8	171.8	163.1	169.4	164.6
42.5°	166.8	170.8	158.1	164.3	155.0	166.0	162.9	181.0	173.5	183.3	178.0
45°	178.1	182.6	165.8	172.7	162.4	174.4	169.1	189.9	184.8	199.5	194.2
47.5°	194.2	187.7	172.8	181.7	170.3	183.4	176.4	200.3	198.5	219.3	213.2
50°	188.9	193.2	178.6	187.9	177.4	193.5	185.8	212.8	213.3	240.9	237.3
52.5°	189.4	196.6	183.1	195.9	185.8	207.5	199.5	227.9	230.3	261.7	256.8
55°	192.5	203.1	189.7	207.0	197.6	223.1	217.4	244.1	248.2	281.4	278.5
57.5°	200.2	214.9	201.2	223.8	214.0	240.9	235.7	260.9	266.5	301.0	300.2
60°	229.7	247.2	223.3	248.2	235.2	261.0	254.2	278.5	284.1	319.8	322.1
62.5°	262.7	293.0	278.8	304.8	270.4	296.6	276.4	300.2	300.5	340.0	347.0
65°	271.3	317.8	329.9	378.3	360.3	387.2	333.3	349.2	328.7	376.8	386.8
67.5°	268.0	325.0	358.6	413.2	433.5	480.3	471.3	465.8	418.3	452.8	465.0
70°	196.8	257.1	339.5	394.9	453.5	484.3	533.0	538.0	535.9	531.1	539.2
72.5°	89.6	140.5	229.7	293.0	389.7	410.4	481.0	479.7	552.1	534.2	546.8
75°	35.2	54.2	109.4	163.6	269.6	295.0	375.0	355.2	445.6	419.3	446.3
77.5°	19.3	24.3	41.0	70.3	147.2	160.7	229.6	196.4	276.4	230.8	239.8
80°	11.6	14.5	18.8	26.7	62.6	66.2	98.0	79.0	113.0	85.8	83.2
82.5°	6.3	7.9	9.4	13.2	23.2	25.8	33.8	30.4	36.2	30.9	30.3
85°	2.6	3.4	3.6	5.3	7.7	8.9	10.8	11.6	14.2	13.0	12.6
87.5°	0.0	0.2	0.0	0.3	0.0	0.3	0.0	0.5	0.5	0.9	1.0
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):**

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2.5°	68.2	68.7	68.0	68.0	67.2	67.7	67.2	66.7	65.8	66.0	64.8
5°	69.4	69.7	68.9	68.5	68.0	67.9	66.8	65.8	64.6	64.6	63.2
7.5°	70.6	70.6	69.4	69.4	68.2	67.9	66.3	64.6	62.9	62.7	60.7
10°	71.3	71.1	69.6	69.6	67.9	67.7	65.8	63.2	60.9	60.2	57.3
12.5°	72.7	72.5	70.6	70.3	68.0	68.0	65.3	61.9	58.5	57.3	53.2
15°	74.4	74.5	72.3	71.8	69.2	69.1	65.3	60.2	55.6	53.7	48.7
17.5°	77.1	77.3	74.2	73.7	70.6	70.1	65.5	58.1	51.6	49.6	45.1
20°	80.7	80.2	76.1	75.9	71.8	71.3	65.3	55.0	47.7	45.6	41.7
22.5°	85.1	84.6	79.3	78.8	74.0	73.2	65.1	51.8	44.1	41.9	39.3
25°	91.3	90.6	84.1	83.4	77.4	76.1	65.0	48.4	41.0	39.3	37.8
27.5°	99.0	97.6	89.7	89.1	81.0	79.3	64.3	44.4	37.9	36.8	36.1
30°	108.2	107.0	96.9	95.9	85.8	83.6	63.6	40.9	35.7	35.2	34.7
32.5°	119.1	118.0	105.6	104.4	92.0	88.7	62.4	37.9	34.4	34.4	33.7
35°	130.6	129.6	115.0	114.2	98.8	94.5	60.9	35.4	33.2	33.2	32.5
37.5°	140.9	141.7	125.3	124.6	105.6	100.3	59.1	33.7	32.1	31.8	31.1
40°	152.0	154.0	134.9	135.4	112.8	106.5	57.1	32.3	30.9	30.6	30.4
42.5°	163.3	167.2	145.0	146.8	120.0	112.8	55.6	31.5	30.4	29.7	29.6
45°	177.3	182.9	157.4	161.0	128.4	120.5	55.0	30.4	28.9	28.0	27.5
47.5°	194.7	202.2	172.8	176.9	139.5	129.7	56.1	30.1	27.9	26.8	25.8
50°	215.4	222.6	191.1	192.8	152.0	139.8	58.3	30.6	27.5	26.0	24.4
52.5°	237.3	242.7	210.4	208.6	165.0	149.7	60.9	30.8	26.7	25.1	23.2
55°	259.8	262.9	228.4	223.4	176.8	159.7	64.3	30.6	26.0	24.3	21.9
57.5°	281.9	282.9	244.3	239.5	188.4	171.5	68.5	30.1	25.0	23.2	20.7
60°	303.4	305.1	261.9	257.4	201.0	186.7	74.7	29.2	23.6	22.4	19.7
62.5°	327.0	332.7	282.9	283.6	218.5	210.4	86.3	28.2	22.2	20.9	18.1
65°	359.2	380.7	317.6	333.7	252.0	255.2	108.5	25.3	20.3	18.6	16.8
67.5°	439.7	463.3	401.9	408.4	330.4	311.1	122.6	21.5	17.9	16.8	15.6
70°	540.5	523.6	480.0	440.7	376.2	319.8	107.9	18.1	15.9	15.2	14.5
72.5°	568.2	507.5	471.6	412.7	347.9	279.0	82.6	15.6	14.2	13.8	13.3
75°	499.3	411.5	413.5	327.9	288.4	212.7	56.4	13.3	12.3	12.1	12.0
77.5°	319.3	211.5	257.4	162.1	166.5	98.5	27.5	11.1	10.6	10.6	10.3
80°	113.5	70.4	79.7	51.1	46.5	31.3	14.9	8.9	8.5	8.7	8.5
82.5°	34.0	27.0	26.5	20.7	16.1	13.2	8.2	6.8	6.5	6.7	6.3
85°	13.7	10.6	8.9	6.8	5.6	5.1	4.4	4.6	4.1	4.4	3.9
87.5°	0.9	0.7	0.5	0.7	0.0	0.3	0.9	0.7	0.2	0.7	0.5
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°	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7	67.7
2.5°	65.6	64.4	65.0	64.4	64.8	63.8	64.1	63.2	63.2	63.1	62.2
5°	63.4	62.2	62.1	60.9	61.0	59.7	59.5	57.9	57.9	56.6	54.0
7.5°	60.3	58.5	58.3	55.9	55.7	53.8	53.2	51.5	51.3	49.7	48.2
10°	56.4	53.5	53.0	49.9	50.1	48.0	47.9	46.7	46.7	46.0	46.0
12.5°	52.0	48.7	48.4	46.0	46.2	44.8	45.0	44.3	44.6	45.0	46.2
15°	47.9	45.3	45.0	43.4	43.6	43.2	43.8	43.8	44.3	45.1	47.2
17.5°	44.4	42.2	42.4	41.7	42.4	42.2	43.2	43.1	44.1	45.1	47.7
20°	41.4	40.2	40.7	40.5	41.4	41.4	42.2	42.4	43.2	44.6	47.5
22.5°	39.3	39.0	39.5	39.5	40.2	40.3	41.2	41.7	42.2	43.6	46.2
25°	38.1	37.9	38.5	38.6	39.1	39.3	40.2	40.2	41.0	41.9	43.2
27.5°	36.4	36.1	36.8	36.8	37.4	37.3	38.3	37.9	38.8	39.1	39.5
30°	35.2	34.7	35.2	35.0	35.6	35.0	35.6	35.0	35.6	35.6	35.0
32.5°	34.0	33.5	33.7	33.0	33.5	32.8	33.0	32.3	32.7	32.3	32.5
35°	32.8	32.1	32.1	31.3	31.3	30.4	30.8	30.1	30.8	31.3	31.1
37.5°	31.1	30.6	30.6	29.9	30.3	29.9	30.6	30.3	30.4	29.7	28.5
40°	30.1	30.4	30.3	30.8	30.4	29.9	29.4	28.4	28.2	27.9	27.2
42.5°	28.5	28.9	28.0	28.7	28.2	28.4	28.0	27.5	27.2	26.8	26.2
45°	26.3	26.3	25.6	26.7	26.2	27.2	26.8	26.8	26.5	26.0	25.5
47.5°	24.4	24.6	23.9	24.8	24.4	25.8	25.6	26.2	26.2	25.8	24.4
50°	23.2	22.9	22.4	23.2	23.1	24.3	24.4	25.5	25.3	25.5	24.3
52.5°	22.2	21.5	21.0	21.5	21.5	22.6	22.9	24.1	24.3	24.6	23.9
55°	21.0	20.2	19.8	20.2	20.2	21.2	21.7	22.6	23.1	24.1	23.8
57.5°	20.0	18.8	18.5	18.8	19.0	20.0	20.5	21.4	22.1	23.4	23.2
60°	18.8	17.8	17.4	17.9	18.1	19.1	19.7	20.5	21.0	22.6	22.6
62.5°	17.4	16.6	16.6	16.8	17.1	18.1	18.5	19.7	19.8	21.7	21.9
65°	16.2	15.7	15.7	15.9	16.2	17.1	17.3	18.5	18.6	20.5	21.0
67.5°	15.2	14.9	14.9	15.0	15.2	15.9	16.1	17.3	17.6	19.3	20.2
70°	14.2	13.8	13.7	13.7	14.2	14.7	15.0	16.2	16.4	17.9	19.0
72.5°	13.0	12.6	12.6	12.5	13.0	13.3	14.0	14.7	15.0	16.6	17.3
75°	11.8	11.5	11.5	11.3	11.6	12.3	12.5	13.2	13.3	14.7	15.4
77.5°	10.3	9.9	9.9	9.9	10.3	10.4	10.6	11.3	11.6	12.8	13.5
80°	8.5	8.2	8.4	8.2	8.7	8.0	8.5	9.2	9.6	10.3	9.9
82.5°	6.5	6.0	6.2	6.2	6.3	5.8	6.2	6.5	6.8	7.4	7.2
85°	4.1	3.6	3.9	3.6	3.9	3.4	3.8	3.8	4.1	3.8	3.6
87.5°	0.9	0.3	0.9	0.3	1.0	0.0	0.5	0.0	0.3	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°	67.7	67.7	67.7	67.7
2.5°	61.4	60.7	60.3	60.2
5°	52.7	51.5	51.1	50.8
7.5°	47.4	47.0	47.0	46.8
10°	46.3	46.8	47.0	47.0
12.5°	47.5	48.4	49.1	49.1
15°	49.1	50.6	51.5	51.5
17.5°	50.3	52.3	53.2	53.3
20°	50.4	52.5	53.7	53.8
22.5°	48.9	50.3	51.1	51.1
25°	45.0	45.6	46.2	46.2
27.5°	40.0	39.8	39.7	40.3
30°	34.9	34.5	33.8	34.5
32.5°	33.0	31.8	30.1	30.6
35°	30.1	29.7	28.9	29.1
37.5°	29.1	32.0	31.8	32.0
40°	27.9	31.5	31.3	31.6
42.5°	26.8	28.9	26.8	27.0
45°	25.0	25.8	24.1	24.1
47.5°	24.1	23.8	23.1	22.9
50°	23.4	23.4	23.1	22.7
52.5°	22.9	22.6	23.8	23.6
55°	22.2	21.9	22.7	22.7
57.5°	21.7	20.9	22.2	22.2
60°	21.2	20.3	21.7	21.7
62.5°	20.9	19.8	21.5	21.4
65°	20.3	19.3	21.5	21.2
67.5°	19.7	18.3	21.2	20.7
70°	18.3	17.1	20.0	18.6
72.5°	16.9	15.6	17.1	15.9
75°	14.9	13.7	13.8	13.7
77.5°	12.5	11.1	10.8	10.9
80°	9.4	8.5	8.2	8.2
82.5°	6.8	5.8	6.0	5.0
85°	3.1	2.2	1.7	1.7
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)