

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: P227659

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227659
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-XXB
Description: IMPACT ELITE LED CYLINDER LUMINAIRE, EMERGENCY MODE WITH BATTERY
BACKPACK BOX
LIGHT SQUARE WITH ACCULED OPTICS-TYPE II
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 636.3 lumens
Efficiency: N/A
Efficacy: 48.9 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

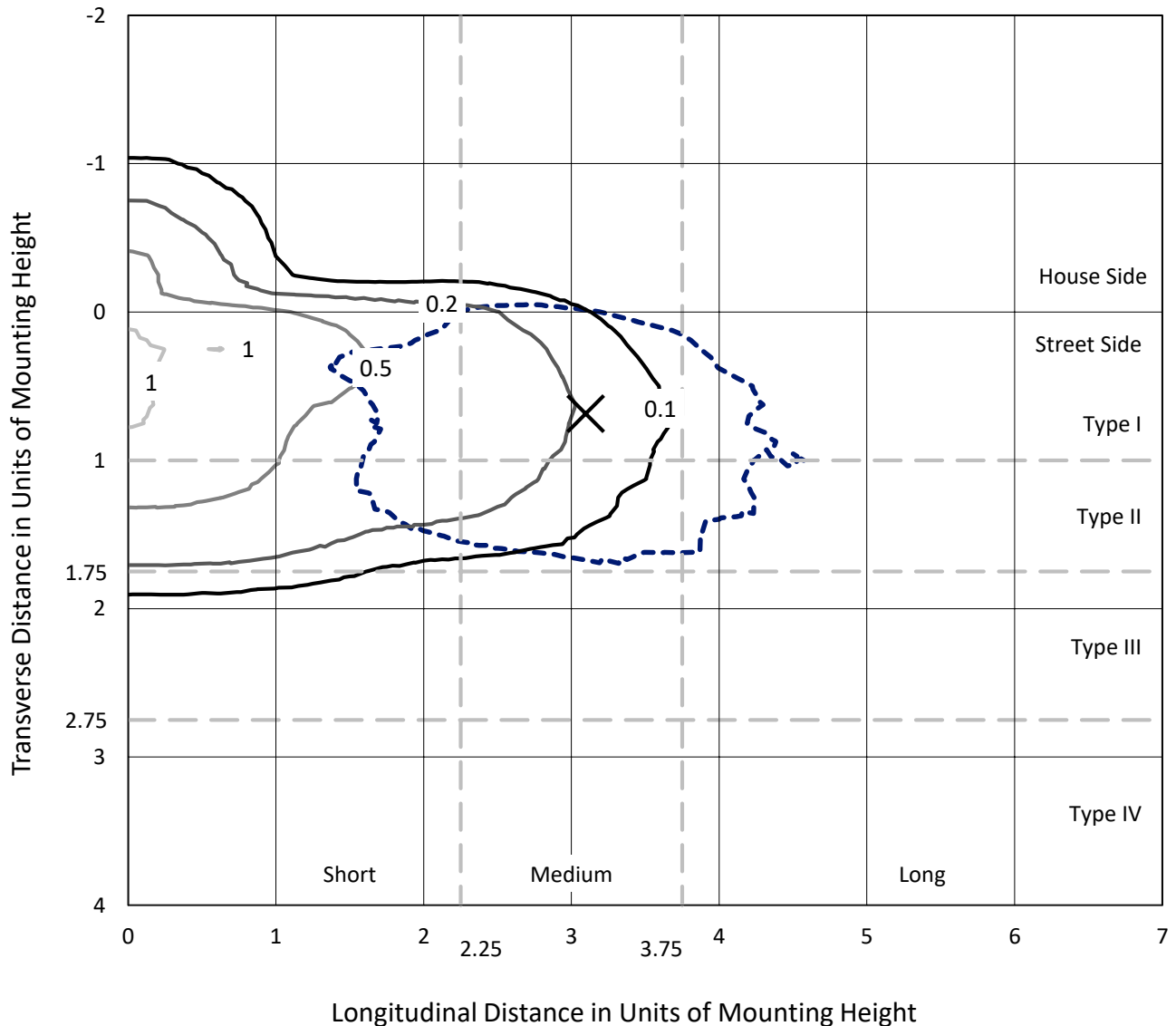
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

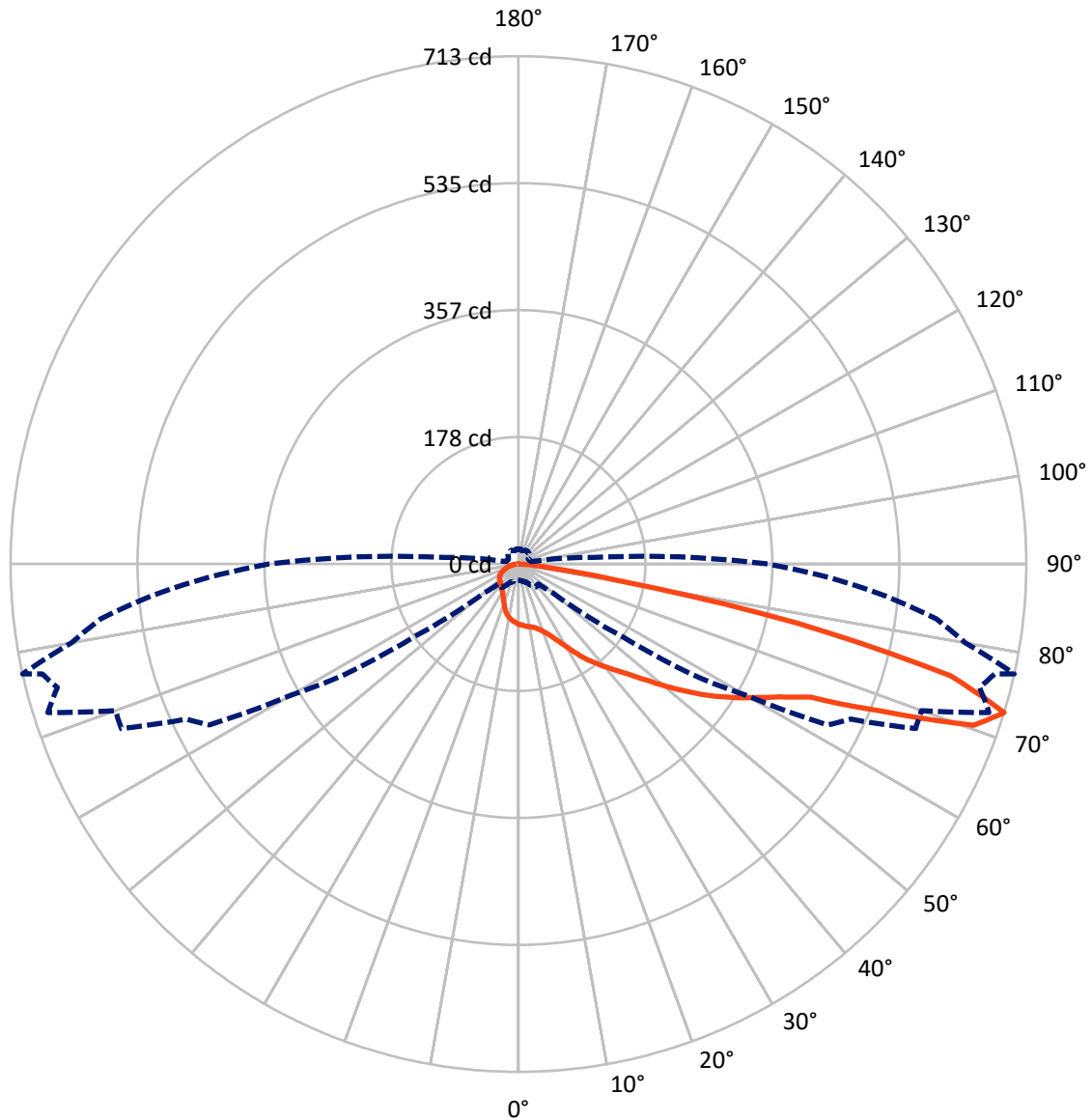
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1 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
House Side	Lumens	105.4	0.0	105.4
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	530.8	0.0	530.8
	% Fixture	83.4	0.0	83.4
Total	Lumens	636.3	0.0	636.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.9	1.2
10°-20°	24.2	3.8
20°-30°	43.0	6.8
30°-40°	68.1	10.7
40°-50°	102.1	16.0
50°-60°	132.3	20.8
60°-70°	150.3	23.6
70°-80°	99.8	15.7
80°-90°	8.7	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°	636.3	100.0
0°-180°	636.3	100.0



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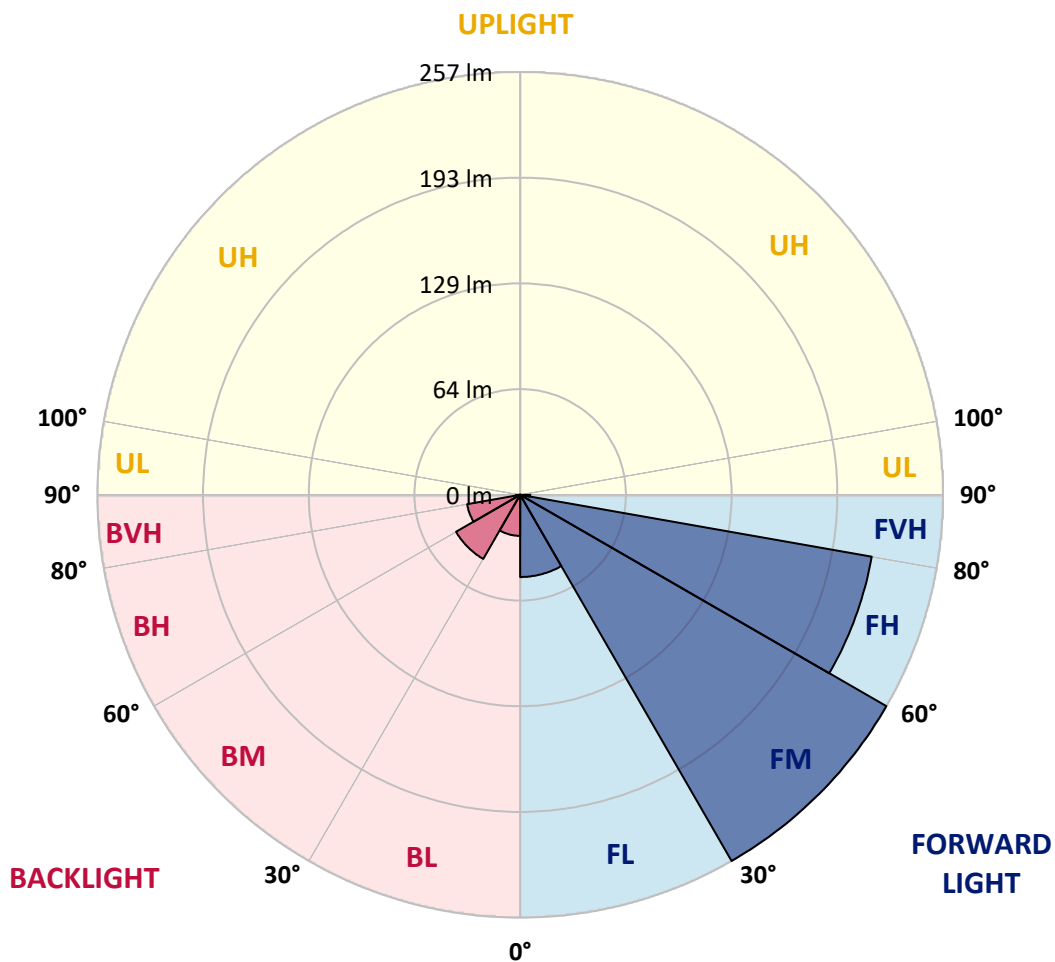
CATALOG NUMBER: ISC-AF-XXX-LED-E1-T2-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	50.1	7.9			
FM (30°-60°)	257.4	40.5			
FH (60°-80°)	217.3	34.2			G0/660
FVH (80°-90°)	6.1	1.0			G0/10
BL (0°-30°)	25.0	3.9	B0/110		
BM (30°-60°)	45.0	7.1	B0/220		
BH (60°-80°)	32.8	5.2	B0/110		G0/110
BVH (80°-90°)	2.6	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°	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2.5°	92.1	91.6	91.3	90.9	90.5	90.3	89.7	89.2	89.9	89.7	89.7
5°	98.9	98.5	97.8	97.2	96.4	95.6	95.0	94.4	94.8	94.4	94.0
7.5°	104.4	104.0	103.2	102.5	101.7	100.9	99.9	99.7	99.3	98.7	98.5
10°	107.7	107.3	106.8	106.4	105.2	104.4	103.4	102.8	103.0	102.1	102.1
12.5°	110.7	110.3	110.1	110.1	108.9	108.3	107.9	107.3	107.7	106.4	106.0
15°	113.4	113.0	112.4	113.0	112.8	112.6	112.4	112.2	112.8	111.6	111.8
17.5°	117.9	117.7	116.5	115.6	115.8	116.5	116.9	116.7	116.7	116.1	116.3
20°	125.1	125.1	123.4	121.8	119.5	119.5	119.7	119.5	119.9	120.4	121.0
22.5°	130.4	130.0	129.4	128.1	125.5	123.4	123.4	122.4	123.2	123.4	124.6
25°	137.3	136.9	135.3	135.3	132.8	130.0	129.6	128.3	129.8	127.1	129.1
27.5°	145.7	145.3	143.3	142.5	141.2	137.7	136.9	137.1	138.6	134.5	136.7
30°	156.2	155.8	153.3	151.0	148.8	145.3	144.8	144.5	148.0	143.3	146.1
32.5°	169.5	169.5	166.9	163.7	159.4	154.5	152.7	152.9	157.6	152.5	157.2
35°	189.7	187.1	182.4	177.4	172.9	167.2	164.8	164.3	168.6	163.5	168.8
37.5°	202.5	200.8	196.5	192.8	187.9	182.4	180.7	181.3	184.9	177.4	185.2
40°	214.1	213.9	211.1	208.8	203.8	198.2	200.4	209.0	218.6	204.0	204.3
42.5°	221.8	222.3	222.1	222.3	219.4	213.7	217.3	229.3	245.8	237.2	229.3
45°	223.1	224.6	225.3	229.6	232.3	228.9	230.9	243.5	276.5	289.8	254.0
47.5°	226.4	227.8	226.6	231.7	244.6	244.4	252.1	256.8	261.3	263.4	290.5
50°	230.6	233.4	232.1	236.4	246.9	253.0	259.6	265.6	262.0	248.5	255.7
52.5°	230.9	234.1	241.1	245.4	255.7	254.4	258.9	255.7	261.3	247.3	254.4
55°	212.0	212.6	233.2	254.8	272.9	269.2	266.5	259.1	266.3	248.9	257.9
57.5°	182.1	184.2	205.7	242.2	280.8	284.1	283.2	282.5	288.1	264.9	274.8
60°	149.4	151.9	172.3	215.1	264.3	272.7	284.3	291.3	305.7	296.5	312.8
62.5°	93.1	95.0	117.5	171.2	233.2	249.7	266.7	275.1	295.8	300.1	327.8
65°	44.4	45.0	53.8	93.1	169.5	200.6	225.7	243.5	269.0	288.4	325.7
67.5°	34.6	34.8	38.0	49.5	86.8	107.7	136.3	159.8	187.1	239.9	286.2
70°	27.7	27.7	30.3	36.5	53.8	56.7	63.9	71.9	83.5	125.9	163.5
72.5°	23.1	23.1	24.9	28.7	39.9	40.5	40.1	39.5	39.5	49.8	63.5
75°	19.5	19.3	20.4	22.9	29.6	30.5	30.1	28.5	26.8	26.8	30.3
77.5°	15.9	15.9	16.8	18.0	21.5	21.9	21.9	20.6	19.1	19.3	20.8
80°	12.5	12.5	13.1	13.9	15.0	14.8	14.8	13.5	12.5	12.3	13.1
82.5°	9.0	9.2	10.7	10.1	9.6	9.0	9.0	8.8	8.0	7.3	7.7
85°	2.8	3.0	5.1	6.0	4.9	4.1	3.9	3.2	3.5	2.8	3.2
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°	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2.5°	88.6	89.0	88.2	88.2	87.1	87.8	86.6	86.8	85.8	86.2	86.2
5°	92.9	93.1	92.1	91.6	90.5	90.5	89.5	89.5	88.0	88.4	88.0
7.5°	97.0	97.0	95.9	95.0	94.0	93.5	92.3	91.6	90.3	90.1	89.5
10°	100.4	100.4	98.9	98.0	96.8	96.2	94.4	93.7	92.3	91.1	90.5
12.5°	104.6	104.2	102.5	101.7	99.5	99.3	96.8	96.4	94.2	93.5	92.5
15°	109.9	110.3	107.5	107.3	104.2	104.0	100.7	100.4	97.2	97.0	95.4
17.5°	115.4	116.3	114.0	113.8	110.1	110.1	106.0	105.8	101.5	101.3	99.3
20°	120.4	121.4	119.9	120.4	117.1	117.3	112.8	112.8	106.8	106.4	104.6
22.5°	124.9	127.1	125.7	128.1	124.9	126.3	120.4	121.4	114.4	113.4	110.9
25°	129.4	132.2	131.8	135.5	133.2	135.8	129.6	131.8	122.4	123.2	119.7
27.5°	133.9	137.5	137.1	142.7	141.8	147.0	141.6	143.9	133.9	134.5	130.6
30°	141.4	145.5	143.9	149.8	149.8	158.1	154.1	157.6	146.5	147.8	143.3
32.5°	151.5	156.2	151.7	159.2	158.8	169.7	166.4	172.7	161.7	163.5	157.9
35°	162.4	169.9	162.6	170.9	169.7	181.1	178.9	189.0	177.4	179.3	173.8
37.5°	176.8	185.8	176.2	183.4	177.6	190.7	189.5	203.2	191.4	196.3	189.7
40°	193.7	200.8	188.8	195.0	185.4	198.9	196.7	215.6	204.7	212.6	206.6
42.5°	209.4	214.3	198.5	206.1	194.6	208.3	204.5	227.2	217.8	230.0	223.3
45°	223.5	229.1	208.1	216.7	203.8	218.8	212.2	238.3	231.9	250.3	243.7
47.5°	243.7	235.6	216.9	228.0	213.7	230.2	221.4	251.4	249.1	275.3	267.5
50°	237.0	242.4	224.2	235.8	222.7	242.8	233.2	267.1	267.7	302.3	297.8
52.5°	237.7	246.7	229.8	245.8	233.2	260.4	250.3	286.0	289.0	328.5	322.2
55°	241.5	254.8	238.1	259.8	248.0	280.0	272.9	306.4	311.5	353.1	349.4
57.5°	251.2	269.6	252.5	280.8	268.6	302.3	295.8	327.3	334.4	377.8	376.8
60°	288.4	310.3	280.2	311.5	295.2	327.5	319.0	349.4	356.5	401.4	404.2
62.5°	329.7	367.8	349.8	382.5	339.4	372.3	346.9	376.8	377.2	426.7	435.5
65°	340.4	398.8	414.1	474.8	452.2	485.9	418.3	438.3	412.6	472.8	485.5
67.5°	336.3	407.9	450.1	518.5	544.0	602.8	591.5	584.6	525.0	568.2	583.5
70°	246.9	322.6	426.1	495.5	569.2	607.7	668.9	675.1	672.6	666.6	676.6
72.5°	112.4	176.4	288.4	367.8	489.2	515.1	603.6	602.0	692.9	670.4	686.3
75°	44.2	68.0	137.3	205.3	338.3	370.3	470.7	445.8	559.2	526.2	560.2
77.5°	24.2	30.5	51.5	88.2	184.7	201.6	288.1	246.5	346.9	289.6	301.0
80°	14.6	18.2	23.6	33.5	78.6	83.1	123.0	99.1	141.8	107.7	104.4
82.5°	8.0	9.8	11.8	16.5	29.2	32.4	42.5	38.2	45.5	38.9	38.0
85°	3.2	4.3	4.5	6.6	9.6	11.2	13.5	14.6	17.8	16.3	15.9
87.5°	0.0	0.2	0.0	0.4	0.0	0.4	0.0	0.6	0.6	1.0	1.3
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):

	77.5°	80°	82.5°	85°	87.5°	90°	95°	100°	102.5°	105°	107.5°
0°	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2.5°	85.6	86.2	85.4	85.4	84.3	84.9	84.3	83.7	82.6	82.9	81.3
5°	87.1	87.6	86.4	86.0	85.4	85.2	83.9	82.6	81.1	81.1	79.4
7.5°	88.6	88.6	87.1	87.1	85.6	85.2	83.3	81.1	79.0	78.8	76.1
10°	89.5	89.2	87.4	87.4	85.2	84.9	82.6	79.4	76.4	75.5	71.9
12.5°	91.1	90.9	88.6	88.2	85.4	85.4	81.9	77.6	73.3	71.9	66.7
15°	93.3	93.5	90.7	90.1	86.8	86.6	81.9	75.5	69.8	67.4	61.2
17.5°	96.8	97.0	93.1	92.5	88.6	88.0	82.1	72.9	64.8	62.2	56.7
20°	101.3	100.7	95.4	95.2	90.1	89.5	81.9	69.0	59.8	57.3	52.4
22.5°	106.8	106.2	99.5	98.9	92.9	91.9	81.7	65.0	55.3	52.6	49.3
25°	114.6	113.8	105.6	104.6	97.2	95.4	81.5	60.7	51.5	49.3	47.4
27.5°	124.2	122.4	112.6	111.8	101.7	99.5	80.7	55.8	47.7	46.1	45.3
30°	135.8	134.3	121.6	120.4	107.7	105.0	79.8	51.2	44.8	44.2	43.6
32.5°	149.6	148.0	132.6	131.0	115.4	111.3	78.3	47.7	43.2	43.2	42.2
35°	163.9	162.6	144.3	143.3	124.0	118.7	76.4	44.4	41.6	41.6	40.7
37.5°	176.8	177.9	157.2	156.4	132.6	125.9	74.3	42.2	40.3	39.9	39.1
40°	190.7	193.3	169.3	169.9	141.6	133.7	71.6	40.5	38.9	38.4	38.2
42.5°	204.9	209.8	181.9	184.2	150.6	141.6	69.8	39.5	38.2	37.3	37.1
45°	222.5	229.6	197.5	202.1	161.1	151.3	69.0	38.2	36.2	35.2	34.6
47.5°	244.4	253.8	216.9	222.1	175.0	162.9	70.4	37.7	35.0	33.7	32.4
50°	270.3	279.4	239.9	242.0	190.7	175.4	73.1	38.4	34.6	32.6	30.7
52.5°	297.8	304.6	264.1	261.8	207.0	187.9	76.4	38.6	33.5	31.5	29.2
55°	326.1	329.9	286.6	280.4	221.8	200.4	80.7	38.4	32.6	30.5	27.4
57.5°	353.7	355.1	306.6	300.5	236.4	215.1	86.0	37.7	31.3	29.2	26.0
60°	380.7	382.9	328.7	323.0	252.3	234.3	93.7	36.7	29.6	28.1	24.7
62.5°	410.4	417.5	355.1	355.9	274.2	264.1	108.3	35.4	27.9	26.2	22.7
65°	450.7	477.7	398.6	418.8	316.2	320.3	136.3	31.7	25.6	23.4	21.1
67.5°	551.8	581.3	504.3	512.5	414.7	390.5	153.9	27.0	22.5	21.1	19.5
70°	678.3	657.1	602.4	553.1	472.2	401.4	135.3	22.7	19.9	19.1	18.2
72.5°	713.1	636.9	591.9	517.9	436.6	350.2	103.6	19.5	17.8	17.4	16.8
75°	626.7	516.4	518.9	411.4	361.9	266.9	70.8	16.8	15.4	15.2	15.0
77.5°	400.8	265.4	323.0	203.4	209.0	123.6	34.6	13.9	13.3	13.3	12.9
80°	142.5	88.4	99.9	64.1	58.3	39.3	18.6	11.2	10.7	10.9	10.7
82.5°	42.7	33.9	33.2	26.0	20.2	16.5	10.3	8.6	8.2	8.4	8.0
85°	17.2	13.3	11.2	8.6	7.1	6.4	5.6	5.8	5.1	5.6	4.9
87.5°	1.0	0.8	0.6	0.8	0.0	0.4	1.0	0.8	0.2	0.8	0.6
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°	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9	84.9
2.5°	82.3	80.9	81.5	80.9	81.3	80.0	80.4	79.4	79.4	79.2	78.1
5°	79.6	78.1	77.8	76.4	76.6	74.9	74.7	72.7	72.7	71.0	67.8
7.5°	75.7	73.3	73.1	70.2	70.0	67.6	66.7	64.5	64.3	62.4	60.5
10°	70.8	67.1	66.5	62.6	62.8	60.3	60.0	58.6	58.6	57.7	57.7
12.5°	65.3	61.2	60.7	57.7	57.9	56.2	56.5	55.5	56.0	56.5	57.9
15°	60.0	56.9	56.5	54.5	54.7	54.3	54.9	54.9	55.5	56.7	59.2
17.5°	55.8	53.0	53.2	52.4	53.2	53.0	54.3	54.0	55.3	56.7	59.8
20°	52.0	50.4	51.0	50.8	52.0	52.0	53.0	53.2	54.3	56.0	59.6
22.5°	49.3	48.9	49.5	49.5	50.4	50.6	51.7	52.4	53.0	54.7	57.9
25°	47.9	47.7	48.3	48.5	49.1	49.3	50.4	50.4	51.5	52.6	54.3
27.5°	45.7	45.3	46.1	46.1	47.0	46.7	48.1	47.7	48.7	49.1	49.5
30°	44.2	43.6	44.2	44.0	44.6	44.0	44.6	44.0	44.6	44.6	44.0
32.5°	42.7	42.0	42.2	41.4	42.0	41.2	41.4	40.5	41.0	40.5	40.7
35°	41.2	40.3	40.3	39.3	39.3	38.2	38.6	37.7	38.6	39.3	39.1
37.5°	39.1	38.4	38.4	37.5	38.0	37.5	38.4	38.0	38.2	37.3	35.8
40°	37.7	38.2	38.0	38.6	38.2	37.5	36.9	35.6	35.4	35.0	34.1
42.5°	35.8	36.2	35.2	36.0	35.4	35.6	35.2	34.6	34.1	33.7	32.8
45°	33.0	33.0	32.2	33.5	32.8	34.1	33.7	33.7	33.2	32.6	31.9
47.5°	30.7	30.9	30.1	31.1	30.7	32.4	32.2	32.8	32.8	32.4	30.7
50°	29.2	28.7	28.1	29.2	28.9	30.5	30.7	31.9	31.7	31.9	30.5
52.5°	27.9	27.0	26.4	27.0	27.0	28.3	28.7	30.3	30.5	30.9	30.1
55°	26.4	25.3	24.9	25.3	25.3	26.6	27.2	28.3	28.9	30.3	29.9
57.5°	25.1	23.6	23.1	23.6	23.8	25.1	25.8	26.8	27.7	29.4	29.2
60°	23.6	22.3	21.9	22.5	22.7	24.0	24.7	25.8	26.4	28.3	28.3
62.5°	21.9	20.8	20.8	21.1	21.5	22.7	23.1	24.7	24.9	27.2	27.4
65°	20.4	19.7	19.7	19.9	20.4	21.5	21.7	23.1	23.4	25.8	26.4
67.5°	19.1	18.6	18.6	18.9	19.1	19.9	20.2	21.7	22.1	24.2	25.3
70°	17.8	17.4	17.2	17.2	17.8	18.4	18.9	20.4	20.6	22.5	23.8
72.5°	16.3	15.9	15.9	15.7	16.3	16.8	17.6	18.4	18.9	20.8	21.7
75°	14.8	14.4	14.4	14.1	14.6	15.4	15.7	16.5	16.8	18.4	19.3
77.5°	12.9	12.5	12.5	12.5	12.9	13.1	13.3	14.1	14.6	16.1	17.0
80°	10.7	10.3	10.5	10.3	10.9	10.1	10.7	11.6	12.0	12.9	12.5
82.5°	8.2	7.5	7.7	7.7	8.0	7.3	7.7	8.2	8.6	9.2	9.0
85°	5.1	4.5	4.9	4.5	4.9	4.3	4.7	4.7	5.1	4.7	4.5
87.5°	1.0	0.4	1.0	0.4	1.3	0.0	0.6	0.0	0.4	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°	84.9	84.9	84.9	84.9
2.5°	77.0	76.1	75.7	75.5
5°	66.1	64.5	64.1	63.7
7.5°	59.4	59.0	59.0	58.8
10°	58.1	58.8	59.0	59.0
12.5°	59.6	60.7	61.6	61.6
15°	61.6	63.5	64.5	64.5
17.5°	63.1	65.7	66.7	66.9
20°	63.3	65.9	67.4	67.6
22.5°	61.4	63.1	64.1	64.1
25°	56.5	57.3	57.9	57.9
27.5°	50.2	50.0	49.8	50.6
30°	43.8	43.4	42.5	43.4
32.5°	41.4	39.9	37.7	38.4
35°	37.7	37.3	36.2	36.5
37.5°	36.5	40.1	39.9	40.1
40°	35.0	39.5	39.3	39.7
42.5°	33.7	36.2	33.7	33.9
45°	31.3	32.4	30.3	30.3
47.5°	30.3	29.9	28.9	28.7
50°	29.4	29.4	28.9	28.5
52.5°	28.7	28.3	29.9	29.6
55°	27.9	27.4	28.5	28.5
57.5°	27.2	26.2	27.9	27.9
60°	26.6	25.6	27.2	27.2
62.5°	26.2	24.9	27.0	26.8
65°	25.6	24.2	27.0	26.6
67.5°	24.7	22.9	26.6	26.0
70°	22.9	21.5	25.1	23.4
72.5°	21.3	19.5	21.5	19.9
75°	18.6	17.2	17.4	17.2
77.5°	15.7	13.9	13.5	13.7
80°	11.8	10.7	10.3	10.3
82.5°	8.6	7.3	7.5	6.2
85°	3.9	2.8	2.1	2.1
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)