

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: P227560

Luminaire Tested: **ISS-AF-XXX-LED-E1-T2-7030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227560
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: ISS-AF-XXX-LED-E1-T2-7030-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCULED OPTICS-TYPE II
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 550 lumens
Efficiency: N/A
Efficacy: 42.3 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

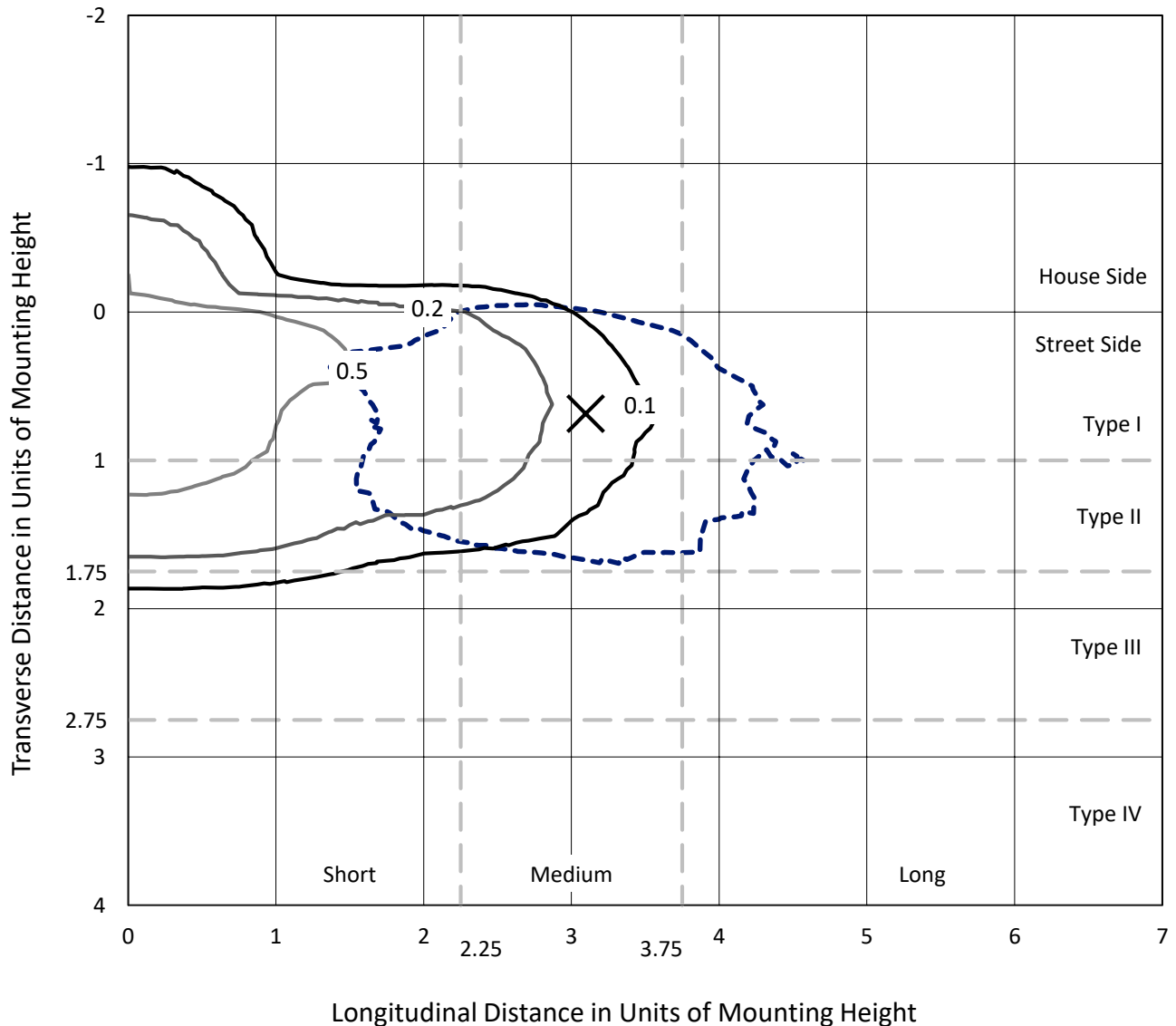
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

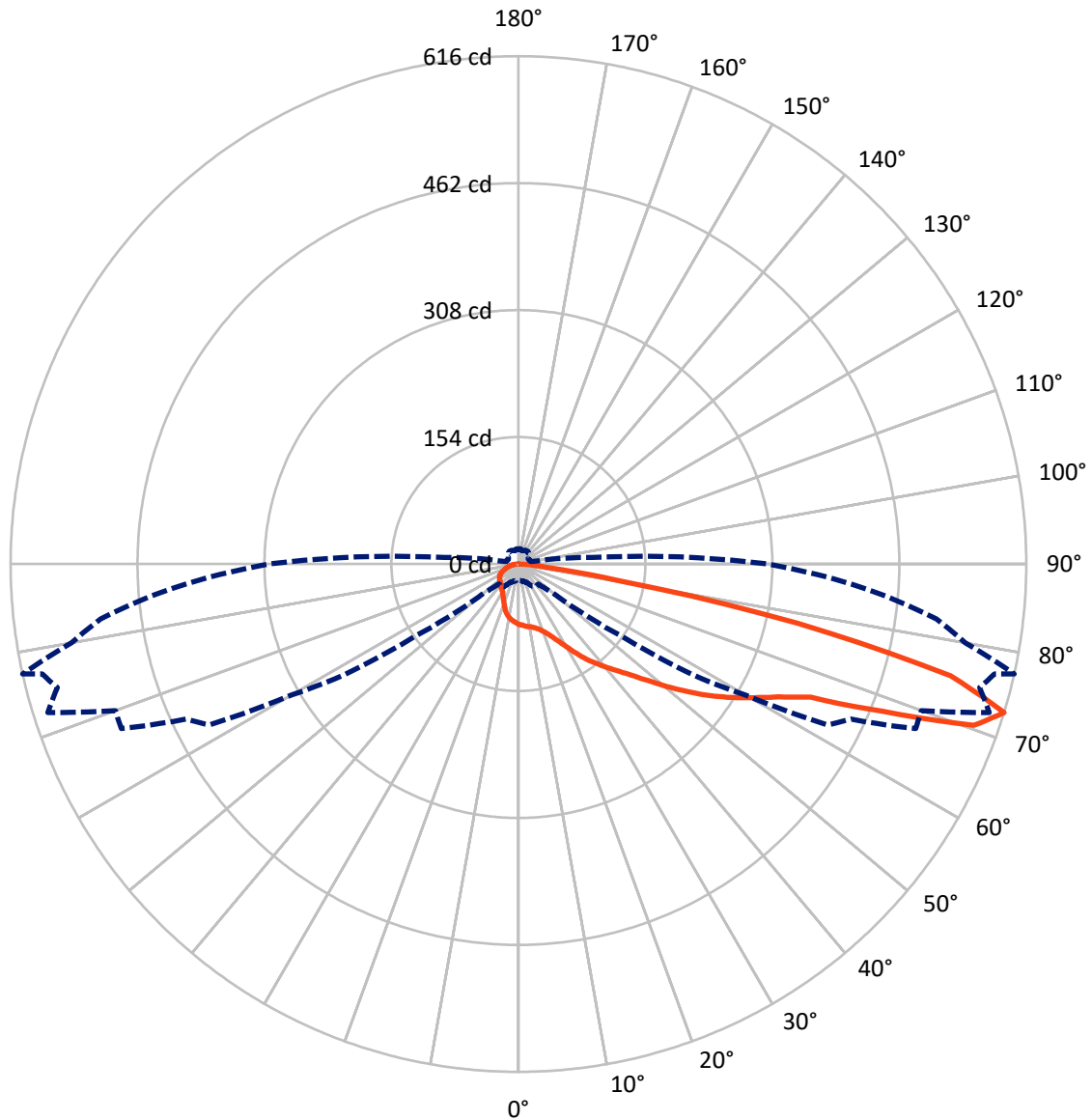
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.9 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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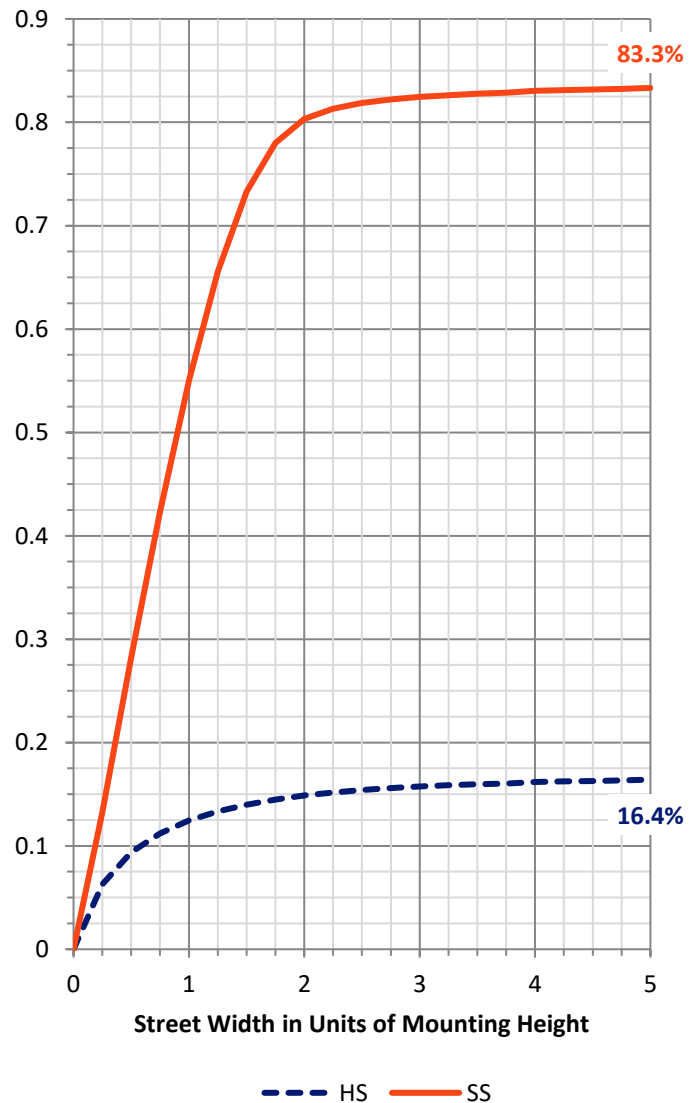
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	91.1	0.0	91.1
	% Fixture	16.6	0.0	16.6
Street Side	Lumens	458.9	0.0	458.9
	% Fixture	83.4	0.0	83.4
Total	Lumens	550.0	0.0	550.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.8	1.2
10°-20°	20.9	3.8
20°-30°	37.1	6.8
30°-40°	58.8	10.7
40°-50°	88.2	16.0
50°-60°	114.4	20.8
60°-70°	129.9	23.6
70°-80°	86.2	15.7
80°-90°	7.5	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°	550.0	100.0
0°-180°	550.0	100.0



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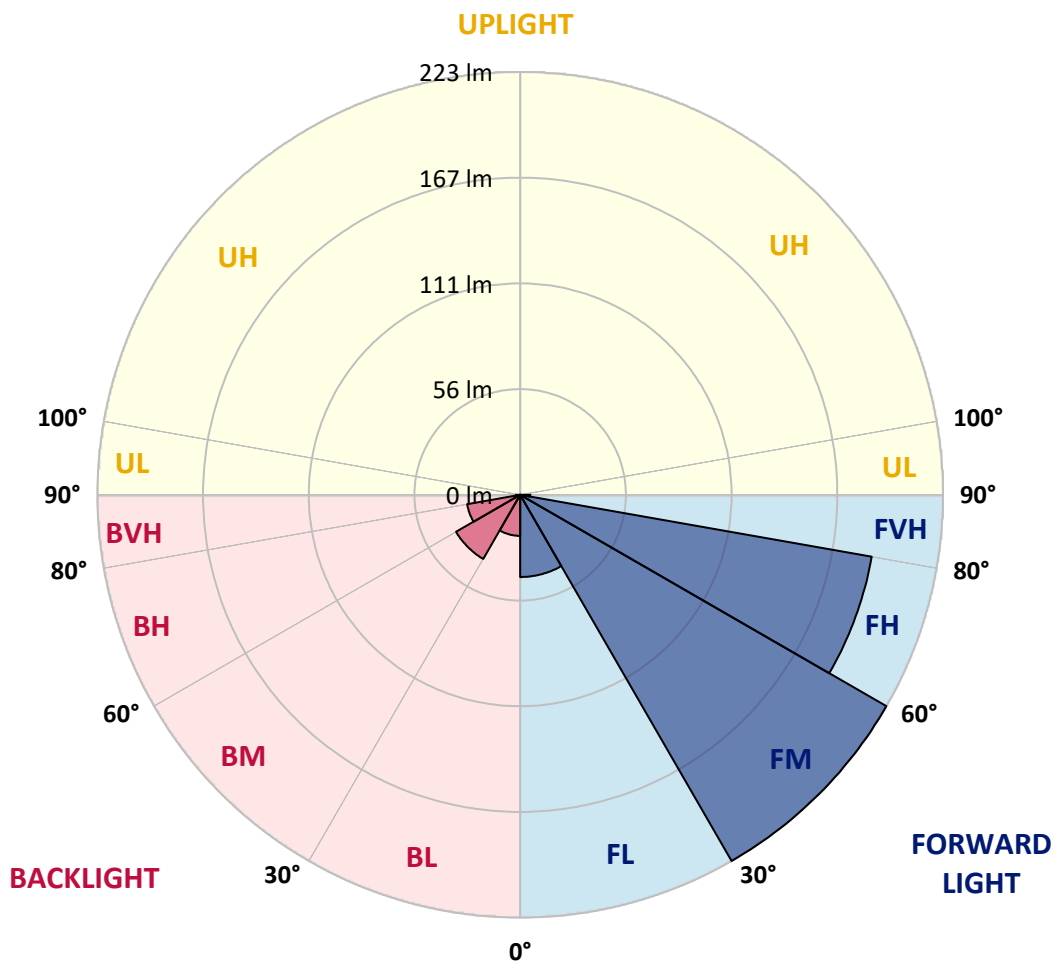
CATALOG NUMBER: ISS-AF-XXX-LED-E1-T2-7030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	43.3	7.9			
FM (30°-60°)	222.5	40.5			
FH (60°-80°)	187.8	34.1			G0/660
FVH (80°-90°)	5.3	1.0			G0/10
BL (0°-30°)	21.6	3.9	B0/110		
BM (30°-60°)	38.9	7.1	B0/220		
BH (60°-80°)	28.3	5.2	B0/110		G0/110
BVH (80°-90°)	2.3	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°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
2.5°	79.6	79.2	79.0	78.6	78.3	78.1	77.5	77.1	77.7	77.5	77.5
5°	85.5	85.1	84.6	84.0	83.3	82.7	82.2	81.6	82.0	81.6	81.2
7.5°	90.3	89.9	89.2	88.6	87.9	87.2	86.4	86.2	85.9	85.3	85.1
10°	93.1	92.7	92.3	92.0	90.9	90.3	89.4	88.8	89.0	88.3	88.3
12.5°	95.7	95.3	95.1	95.1	94.2	93.6	93.3	92.7	93.1	92.0	91.6
15°	98.1	97.7	97.2	97.7	97.5	97.4	97.2	97.0	97.5	96.4	96.6
17.5°	102.0	101.8	100.7	100.0	100.1	100.7	101.1	100.9	100.9	100.3	100.5
20°	108.1	108.1	106.6	105.3	103.3	103.3	103.5	103.3	103.7	104.0	104.6
22.5°	112.7	112.4	111.8	110.7	108.5	106.6	106.6	105.9	106.4	106.6	107.7
25°	118.7	118.3	117.0	117.0	114.8	112.4	112.0	110.9	112.2	109.8	111.6
27.5°	125.9	125.5	123.9	123.1	122.0	119.1	118.3	118.5	119.8	116.3	118.1
30°	135.0	134.6	132.6	130.6	128.7	125.5	125.2	125.0	128.0	123.9	126.3
32.5°	146.5	146.5	144.3	141.5	137.8	133.5	132.0	132.2	136.3	131.8	135.9
35°	163.9	161.7	157.6	153.4	149.5	144.5	142.4	142.0	145.8	141.3	145.9
37.5°	175.1	173.6	169.9	166.7	162.4	157.6	156.1	156.7	159.9	153.4	160.0
40°	185.1	184.9	182.5	180.4	176.2	171.3	173.2	180.6	189.0	176.4	176.5
42.5°	191.7	192.1	191.9	192.1	189.7	184.7	187.9	198.2	212.5	205.1	198.2
45°	192.9	194.2	194.7	198.4	200.8	197.9	199.5	210.5	239.0	250.5	219.6
47.5°	195.6	196.9	195.8	200.3	211.4	211.2	217.9	222.0	225.9	227.7	251.1
50°	199.3	201.8	200.6	204.4	213.4	218.6	224.4	229.6	226.4	214.7	221.0
52.5°	199.5	202.3	208.4	212.1	221.0	219.9	223.8	221.0	225.9	213.8	219.9
55°	183.2	183.8	201.6	220.3	235.9	232.7	230.3	224.0	230.1	215.1	222.9
57.5°	157.4	159.3	177.8	209.4	242.7	245.5	244.8	244.2	249.0	229.0	237.6
60°	129.1	131.3	148.9	186.0	228.5	235.7	245.7	251.8	264.3	256.3	270.4
62.5°	80.5	82.2	101.6	148.0	201.6	215.9	230.5	237.7	255.7	259.4	283.4
65°	38.4	38.9	46.5	80.5	146.5	173.4	195.1	210.5	232.5	249.2	281.5
67.5°	29.9	30.0	32.8	42.8	75.1	93.1	117.8	138.2	161.7	207.3	247.4
70°	23.9	23.9	26.1	31.5	46.5	49.0	55.3	62.1	72.1	108.9	141.3
72.5°	20.0	20.0	21.5	24.8	34.5	35.0	34.7	34.1	34.1	43.0	54.9
75°	16.9	16.7	17.6	19.8	25.6	26.3	26.0	24.7	23.2	23.2	26.1
77.5°	13.7	13.7	14.5	15.6	18.5	18.9	18.9	17.8	16.5	16.7	18.0
80°	10.8	10.8	11.3	12.1	13.0	12.8	12.8	11.7	10.8	10.6	11.3
82.5°	7.8	8.0	9.3	8.7	8.3	7.8	7.8	7.6	6.9	6.3	6.7
85°	2.4	2.6	4.5	5.2	4.3	3.5	3.3	2.8	3.0	2.4	2.8
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°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
2.5°	76.6	77.0	76.2	76.2	75.3	75.8	74.9	75.1	74.2	74.5	74.5
5°	80.3	80.5	79.6	79.2	78.3	78.3	77.3	77.3	76.0	76.4	76.0
7.5°	83.8	83.8	82.9	82.2	81.2	80.9	79.7	79.2	78.1	77.9	77.3
10°	86.8	86.8	85.5	84.7	83.6	83.1	81.6	81.0	79.7	78.8	78.3
12.5°	90.5	90.1	88.6	87.9	86.0	85.9	83.6	83.3	81.4	80.9	79.9
15°	94.9	95.3	92.9	92.7	90.1	89.9	87.0	86.8	84.0	83.8	82.5
17.5°	99.8	100.5	98.5	98.3	95.1	95.1	91.6	91.4	87.7	87.5	85.9
20°	104.0	105.0	103.7	104.0	101.3	101.4	97.5	97.5	92.3	92.0	90.5
22.5°	107.9	109.8	108.7	110.7	107.9	109.2	104.0	105.0	98.8	98.1	95.9
25°	111.8	114.2	113.9	117.2	115.2	117.4	112.0	113.9	105.9	106.4	103.5
27.5°	115.7	118.9	118.5	123.3	122.6	127.0	122.4	124.4	115.7	116.3	112.9
30°	122.2	125.7	124.4	129.4	129.4	136.7	133.1	136.3	126.7	127.8	123.9
32.5°	130.9	135.0	131.1	137.6	137.2	146.7	143.9	149.3	139.8	141.3	136.5
35°	140.4	146.9	140.6	147.8	146.7	156.5	154.7	163.4	153.4	155.0	150.2
37.5°	152.8	160.6	152.2	158.6	153.5	164.9	163.7	175.6	165.4	169.7	163.9
40°	167.5	173.6	163.2	168.6	160.2	171.9	170.0	186.4	176.9	183.8	178.6
42.5°	181.0	185.3	171.5	178.2	168.2	180.1	176.7	196.4	188.2	198.8	193.0
45°	193.2	198.1	179.9	187.3	176.2	189.1	183.4	206.0	200.5	216.4	210.7
47.5°	210.7	203.6	187.5	197.1	184.7	199.0	191.4	217.3	215.3	237.9	231.2
50°	204.9	209.5	193.8	203.8	192.5	209.9	201.6	230.9	231.4	261.3	257.4
52.5°	205.5	213.3	198.6	212.5	201.6	225.1	216.4	247.2	249.8	283.9	278.5
55°	208.8	220.3	205.8	224.6	214.4	242.0	235.9	264.8	269.3	305.2	302.1
57.5°	217.2	233.1	218.3	242.7	232.2	261.3	255.7	283.0	289.1	326.6	325.6
60°	249.2	268.1	242.2	269.3	255.2	283.2	275.8	302.1	308.2	347.0	349.4
62.5°	285.0	317.8	302.5	330.6	293.4	321.7	299.9	325.6	326.0	368.8	376.4
65°	294.3	344.7	357.9	410.4	390.9	420.0	361.6	378.9	356.6	408.7	419.7
67.5°	290.8	352.5	389.1	448.2	470.3	521.1	511.3	505.3	453.8	491.2	504.4
70°	213.4	278.9	368.3	428.4	492.0	525.4	578.2	583.6	581.4	576.2	584.9
72.5°	97.2	152.4	249.2	317.8	422.8	445.2	521.8	520.3	599.0	579.5	593.2
75°	38.2	58.8	118.7	177.5	292.4	320.1	406.9	385.3	483.4	454.9	484.2
77.5°	21.0	26.3	44.5	76.2	159.7	174.3	249.0	213.1	299.9	250.3	260.2
80°	12.6	15.8	20.4	28.9	67.9	71.8	106.3	85.7	122.6	93.1	90.3
82.5°	6.9	8.5	10.2	14.3	25.2	28.0	36.7	33.0	39.3	33.6	32.8
85°	2.8	3.7	3.9	5.7	8.3	9.6	11.7	12.6	15.4	14.1	13.7
87.5°	0.0	0.2	0.0	0.4	0.0	0.4	0.0	0.6	0.6	0.9	1.1
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°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
2.5°	74.0	74.5	73.8	73.8	72.9	73.4	72.9	72.3	71.4	71.6	70.3
5°	75.3	75.7	74.7	74.4	73.8	73.6	72.5	71.4	70.1	70.1	68.6
7.5°	76.6	76.6	75.3	75.3	74.0	73.6	72.0	70.1	68.2	68.1	65.8
10°	77.3	77.1	75.5	75.5	73.6	73.4	71.4	68.6	66.0	65.3	62.1
12.5°	78.8	78.6	76.6	76.2	73.8	73.8	70.8	67.1	63.4	62.1	57.7
15°	80.7	80.9	78.4	77.9	75.1	74.9	70.8	65.3	60.3	58.2	52.9
17.5°	83.6	83.8	80.5	79.9	76.6	76.0	71.0	63.0	56.0	53.8	49.0
20°	87.5	87.0	82.5	82.3	77.9	77.3	70.8	59.7	51.7	49.5	45.2
22.5°	92.3	91.8	86.0	85.5	80.3	79.4	70.7	56.2	47.8	45.4	42.7
25°	99.0	98.3	91.2	90.5	84.0	82.5	70.5	52.5	44.5	42.7	41.0
27.5°	107.4	105.9	97.4	96.6	87.9	86.0	69.7	48.2	41.2	39.9	39.1
30°	117.4	116.1	105.1	104.0	93.1	90.7	69.0	44.3	38.8	38.2	37.6
32.5°	129.3	128.0	114.6	113.3	99.8	96.2	67.7	41.2	37.3	37.3	36.5
35°	141.7	140.6	124.8	123.9	107.2	102.5	66.0	38.4	36.0	36.0	35.2
37.5°	152.8	153.7	135.9	135.2	114.6	108.9	64.2	36.5	34.9	34.5	33.8
40°	164.9	167.1	146.3	146.9	122.4	115.5	61.9	35.0	33.6	33.2	33.0
42.5°	177.1	181.4	157.3	159.3	130.2	122.4	60.3	34.1	33.0	32.3	32.1
45°	192.3	198.4	170.8	174.7	139.3	130.7	59.7	33.0	31.3	30.4	29.9
47.5°	211.2	219.4	187.5	191.9	151.3	140.7	60.8	32.6	30.2	29.1	28.0
50°	233.7	241.4	207.3	209.2	164.9	151.7	63.2	33.2	29.9	28.2	26.5
52.5°	257.4	263.3	228.3	226.2	179.0	162.4	66.0	33.4	28.9	27.3	25.2
55°	281.9	285.2	247.7	242.4	191.7	173.2	69.7	33.2	28.2	26.3	23.7
57.5°	305.8	306.9	265.0	259.8	204.4	186.0	74.4	32.6	27.1	25.2	22.4
60°	329.2	331.0	284.1	279.3	218.1	202.5	81.0	31.7	25.6	24.3	21.3
62.5°	354.7	360.9	306.9	307.6	237.0	228.3	93.6	30.6	24.1	22.6	19.7
65°	389.6	413.0	344.5	362.0	273.3	276.9	117.8	27.4	22.1	20.2	18.2
67.5°	477.0	502.5	436.0	443.0	358.5	337.5	133.0	23.4	19.5	18.2	16.9
70°	586.4	568.0	520.7	478.1	408.2	347.0	117.0	19.7	17.2	16.5	15.8
72.5°	616.4	550.6	511.6	447.7	377.4	302.6	89.6	16.9	15.4	15.0	14.5
75°	541.7	446.4	448.6	355.7	312.8	230.7	61.2	14.5	13.4	13.2	13.0
77.5°	346.4	229.4	279.3	175.8	180.6	106.8	29.9	12.1	11.5	11.5	11.1
80°	123.1	76.4	86.4	55.4	50.4	33.9	16.1	9.6	9.3	9.5	9.3
82.5°	36.9	29.3	28.7	22.4	17.4	14.3	8.9	7.4	7.0	7.2	6.9
85°	14.8	11.5	9.6	7.4	6.1	5.6	4.8	5.0	4.5	4.8	4.3
87.5°	0.9	0.7	0.6	0.7	0.0	0.4	0.9	0.7	0.2	0.7	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°	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4	73.4
2.5°	71.2	69.9	70.5	69.9	70.3	69.2	69.5	68.6	68.6	68.4	67.5
5°	68.8	67.5	67.3	66.0	66.2	64.7	64.5	62.9	62.9	61.4	58.6
7.5°	65.5	63.4	63.2	60.6	60.5	58.4	57.7	55.8	55.6	54.0	52.3
10°	61.2	58.0	57.5	54.1	54.3	52.1	51.9	50.6	50.6	49.9	49.9
12.5°	56.4	52.9	52.5	49.9	50.1	48.6	48.8	48.0	48.4	48.8	50.1
15°	51.9	49.1	48.8	47.1	47.3	46.9	47.5	47.5	48.0	49.0	51.2
17.5°	48.2	45.8	46.0	45.2	46.0	45.8	46.9	46.7	47.8	49.0	51.7
20°	44.9	43.6	44.1	43.9	44.9	44.9	45.8	46.0	46.9	48.4	51.6
22.5°	42.7	42.3	42.8	42.8	43.6	43.8	44.7	45.2	45.8	47.3	50.1
25°	41.4	41.2	41.7	41.9	42.5	42.7	43.6	43.6	44.5	45.4	46.9
27.5°	39.5	39.1	39.9	39.9	40.6	40.4	41.5	41.2	42.1	42.5	42.8
30°	38.2	37.6	38.2	38.0	38.6	38.0	38.6	38.0	38.6	38.6	38.0
32.5°	36.9	36.3	36.5	35.8	36.3	35.6	35.8	35.0	35.4	35.0	35.2
35°	35.6	34.9	34.9	33.9	33.9	33.0	33.4	32.6	33.4	33.9	33.8
37.5°	33.8	33.2	33.2	32.5	32.8	32.5	33.2	32.8	33.0	32.3	31.0
40°	32.6	33.0	32.8	33.4	33.0	32.5	31.9	30.8	30.6	30.2	29.5
42.5°	31.0	31.3	30.4	31.2	30.6	30.8	30.4	29.9	29.5	29.1	28.4
45°	28.6	28.6	27.8	28.9	28.4	29.5	29.1	29.1	28.7	28.2	27.6
47.5°	26.5	26.7	26.0	26.9	26.5	28.0	27.8	28.4	28.4	28.0	26.5
50°	25.2	24.8	24.3	25.2	25.0	26.3	26.5	27.6	27.4	27.6	26.3
52.5°	24.1	23.4	22.8	23.4	23.4	24.5	24.8	26.1	26.3	26.7	26.0
55°	22.8	21.9	21.5	21.9	21.9	23.0	23.6	24.5	25.0	26.1	25.8
57.5°	21.7	20.4	20.0	20.4	20.6	21.7	22.3	23.2	23.9	25.4	25.2
60°	20.4	19.3	18.9	19.5	19.7	20.8	21.3	22.3	22.8	24.5	24.5
62.5°	18.9	18.0	18.0	18.2	18.5	19.7	20.0	21.3	21.5	23.6	23.7
65°	17.6	17.1	17.1	17.2	17.6	18.5	18.7	20.0	20.2	22.3	22.8
67.5°	16.5	16.1	16.1	16.3	16.5	17.2	17.4	18.7	19.1	21.0	21.9
70°	15.4	15.0	14.8	14.8	15.4	15.9	16.3	17.6	17.8	19.5	20.6
72.5°	14.1	13.7	13.7	13.5	14.1	14.5	15.2	15.9	16.3	18.0	18.7
75°	12.8	12.4	12.4	12.2	12.6	13.4	13.5	14.3	14.5	15.9	16.7
77.5°	11.1	10.8	10.8	10.8	11.1	11.3	11.5	12.2	12.6	13.9	14.6
80°	9.3	8.9	9.1	8.9	9.5	8.7	9.3	10.0	10.4	11.1	10.8
82.5°	7.0	6.5	6.7	6.7	6.9	6.3	6.7	7.0	7.4	8.0	7.8
85°	4.5	3.9	4.3	3.9	4.3	3.7	4.1	4.1	4.5	4.1	3.9
87.5°	0.9	0.4	0.9	0.4	1.1	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°	73.4	73.4	73.4	73.4
2.5°	66.6	65.8	65.5	65.3
5°	57.1	55.8	55.4	55.1
7.5°	51.4	51.0	51.0	50.8
10°	50.3	50.8	51.0	51.0
12.5°	51.6	52.5	53.2	53.2
15°	53.2	54.9	55.8	55.8
17.5°	54.5	56.7	57.7	57.9
20°	54.7	56.9	58.2	58.4
22.5°	53.0	54.5	55.4	55.4
25°	48.8	49.5	50.1	50.1
27.5°	43.4	43.2	43.0	43.8
30°	37.8	37.5	36.7	37.5
32.5°	35.8	34.5	32.6	33.2
35°	32.6	32.3	31.3	31.5
37.5°	31.5	34.7	34.5	34.7
40°	30.2	34.1	33.9	34.3
42.5°	29.1	31.3	29.1	29.3
45°	27.1	28.0	26.1	26.1
47.5°	26.1	25.8	25.0	24.8
50°	25.4	25.4	25.0	24.7
52.5°	24.8	24.5	25.8	25.6
55°	24.1	23.7	24.7	24.7
57.5°	23.6	22.6	24.1	24.1
60°	23.0	22.1	23.6	23.6
62.5°	22.6	21.5	23.4	23.2
65°	22.1	21.0	23.4	23.0
67.5°	21.3	19.8	23.0	22.4
70°	19.8	18.5	21.7	20.2
72.5°	18.4	16.9	18.5	17.2
75°	16.1	14.8	15.0	14.8
77.5°	13.5	12.1	11.7	11.9
80°	10.2	9.3	8.9	8.9
82.5°	7.4	6.3	6.5	5.4
85°	3.3	2.4	1.9	1.9
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)