

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: P227691

Luminaire Tested: **ISS-AF-XXX-LED-E1-T3-8030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227691
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29759)
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-T3-8030-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCULED OPTICS-TYPE III
Light Source: (16) 3000K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 518 lumens
Efficiency: N/A
Efficacy: 39.8 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type III - Medium - Semi-Cutoff
BUG Rating: B0 - U0 - G0

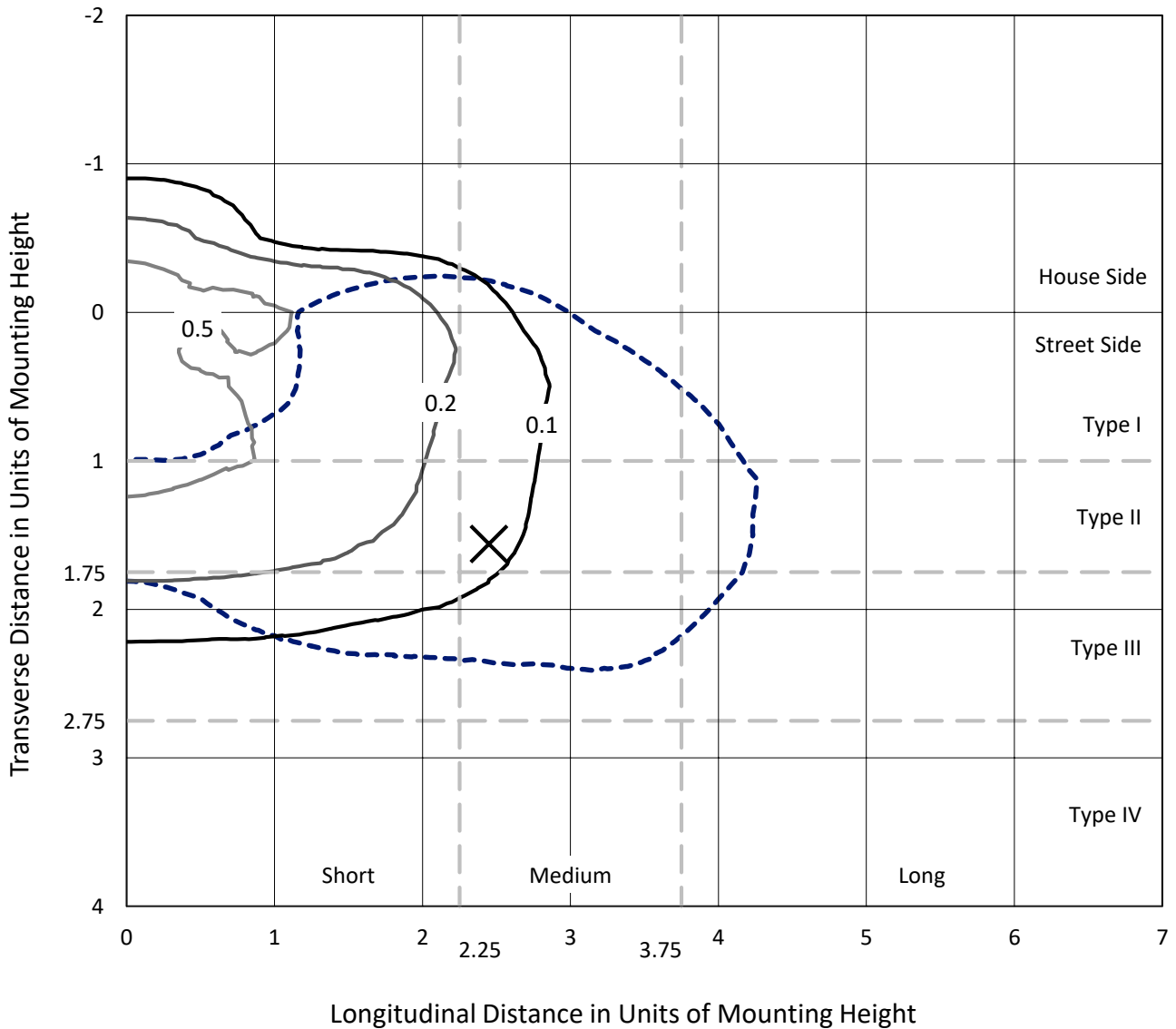
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

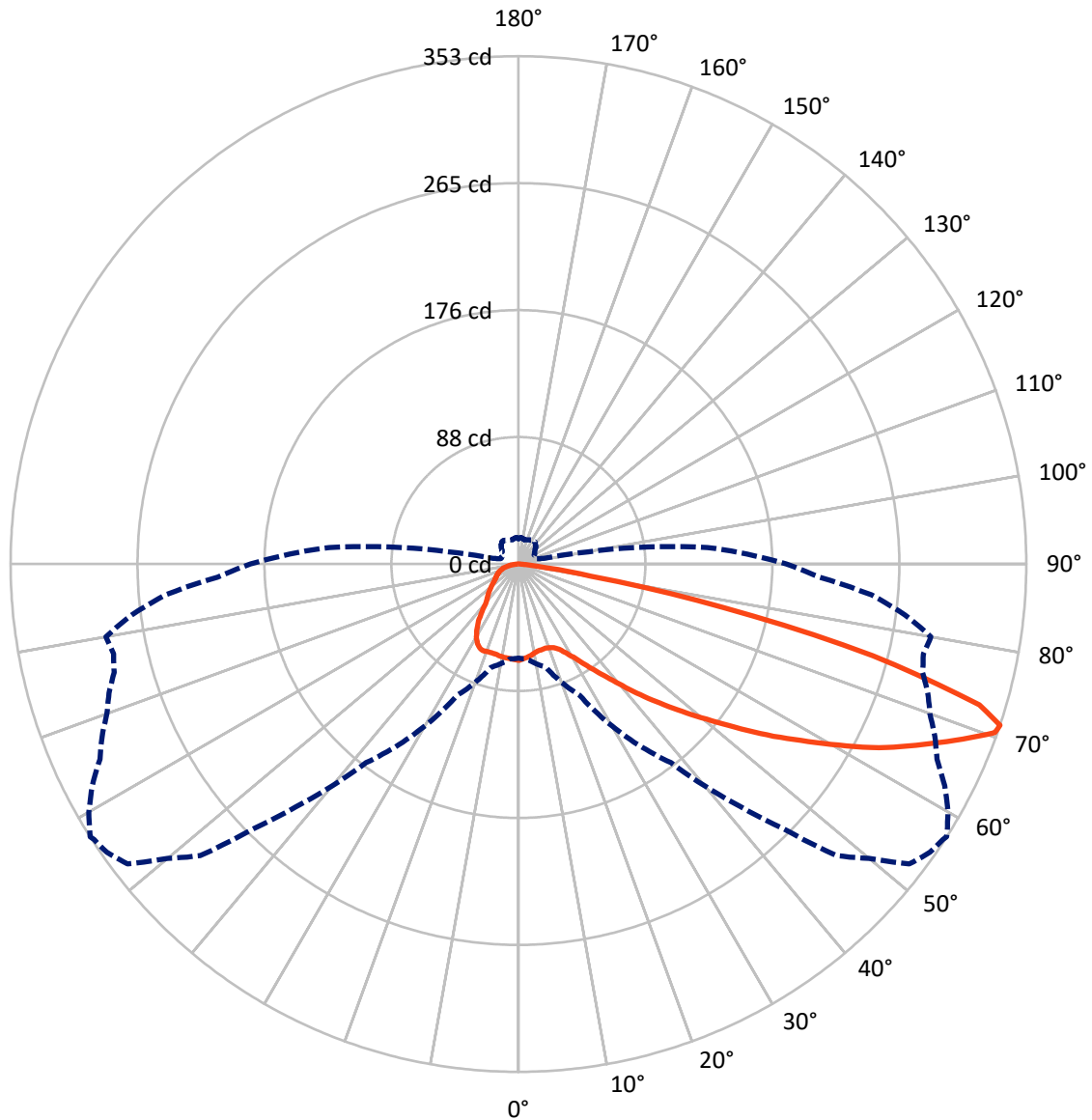
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.7 fc
 Type III - Medium - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 57.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	112.8	0.0	112.8
	% Fixture	21.8	0.0	21.8
Street Side	Lumens	405.2	0.0	405.2
	% Fixture	78.2	0.0	78.2
Total	Lumens	518.0	0.0	518.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.3	1.2
10°-20°	18.1	3.5
20°-30°	30.1	5.8
30°-40°	48.0	9.3
40°-50°	77.9	15.0
50°-60°	116.8	22.5
60°-70°	139.4	26.9
70°-80°	75.3	14.5
80°-90°	6.1	1.2
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°	518.0	100.0
0°-180°	518.0	100.0



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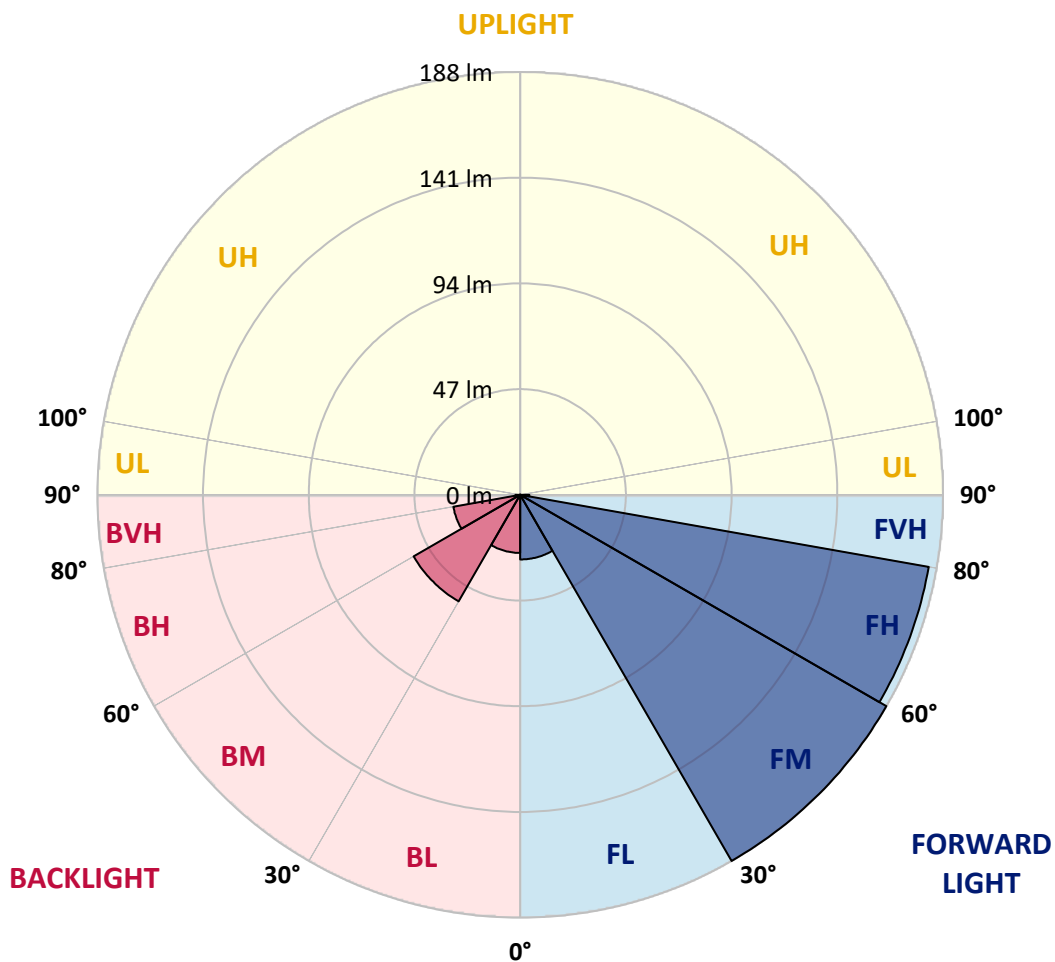
CATALOG NUMBER: ISS-AF-XXX-LED-E1-T3-8030-XXB

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	28.7	5.5			
FM	(30°-60°)	188.0	36.3			
FH	(60°-80°)	184.5	35.6			G0/660
FVH	(80°-90°)	4.0	0.8			G0/10
BL	(0°-30°)	25.8	5.0	B0/110		
BM	(30°-60°)	54.7	10.6	B0/220		
BH	(60°-80°)	30.2	5.8	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 III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47.5°	50°
0°	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
2.5°	66.9	66.7	66.6	66.6	66.6	66.4	65.9	66.1	66.6	66.2	66.7
5°	66.7	66.4	66.2	66.2	66.2	65.7	65.5	65.4	66.4	65.5	66.2
7.5°	64.9	64.9	64.5	64.9	65.2	64.7	64.4	64.5	65.4	64.5	65.4
10°	63.5	63.2	63.0	63.0	63.3	62.6	62.3	62.6	63.7	62.6	63.8
12.5°	63.0	63.2	62.6	62.6	62.5	61.6	61.6	61.6	62.5	61.6	62.6
15°	63.8	63.7	63.2	62.8	62.3	61.6	61.4	61.6	62.3	61.3	62.5
17.5°	65.0	65.0	64.2	63.3	62.8	62.1	62.1	61.8	62.3	61.6	62.5
20°	68.1	67.6	66.4	65.0	63.7	63.3	62.6	62.6	63.0	62.3	62.8
22.5°	73.4	72.9	70.9	68.3	66.1	65.2	64.9	64.7	64.4	64.0	64.0
25°	80.4	79.6	77.2	74.1	70.3	69.7	69.0	68.5	67.3	67.3	66.4
27.5°	88.0	87.1	84.5	81.1	76.5	75.5	74.6	73.9	71.9	71.9	70.3
30°	96.5	95.5	92.4	88.7	83.3	83.0	81.8	80.8	78.0	77.9	75.8
32.5°	106.5	105.1	102.0	97.0	91.4	91.6	89.7	89.0	85.4	85.6	82.8
35°	117.7	116.2	113.1	106.6	100.8	101.3	99.6	98.4	94.0	94.0	91.0
37.5°	129.7	129.7	125.8	118.3	111.2	112.4	110.4	109.2	104.7	105.4	100.8
40°	143.1	143.9	139.7	131.1	123.9	124.4	122.9	121.5	116.2	117.4	112.4
42.5°	157.1	158.7	154.9	146.0	137.9	139.7	137.1	135.7	130.1	132.6	126.8
45°	177.5	177.8	170.8	162.2	155.6	157.1	153.5	153.0	146.0	148.7	142.9
47.5°	190.3	189.5	184.3	179.2	175.3	178.3	175.1	174.2	166.2	168.1	159.8
50°	199.0	199.6	195.6	195.1	195.8	201.6	201.1	199.4	189.8	188.4	178.2
52.5°	206.9	204.7	204.0	208.8	216.2	223.0	225.7	223.5	213.1	209.3	199.4
55°	205.5	202.3	205.9	217.5	232.1	242.7	243.0	241.5	232.1	230.5	219.8
57.5°	196.3	197.0	204.3	220.9	245.6	256.5	258.4	256.5	248.8	250.2	241.3
60°	183.5	184.8	196.5	217.9	256.4	265.8	266.6	268.9	263.7	267.3	261.2
62.5°	164.3	166.2	181.1	210.2	248.8	262.9	270.8	275.9	274.9	283.1	279.8
65°	151.0	151.0	165.5	201.3	241.5	260.0	271.8	281.4	282.7	295.7	294.5
67.5°	126.1	127.0	139.5	176.5	232.6	253.5	271.3	287.5	295.7	316.3	317.3
70°	87.3	88.0	96.2	126.0	187.9	205.7	231.9	258.4	283.1	314.1	330.1
71°	65.4	66.2	74.3	100.5	159.2	173.9	201.1	228.6	259.6	299.8	318.0
72.5°	32.0	32.5	40.4	64.5	110.7	129.6	145.3	171.7	204.5	250.6	276.2
75°	14.9	15.1	16.8	23.3	42.3	50.3	57.3	74.3	94.6	135.0	166.2
77.5°	11.0	11.0	12.0	15.2	21.9	22.2	21.9	22.4	27.0	38.7	58.2
80°	8.0	8.0	8.7	10.3	14.5	14.5	14.0	14.2	13.7	14.2	16.1
82.5°	5.3	5.3	5.6	6.2	8.9	8.9	8.6	8.6	8.2	8.0	8.7
85°	3.1	3.3	3.4	2.9	3.8	3.6	3.3	3.6	3.4	3.1	3.8
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°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
2.5°	66.1	66.6	66.6	65.9	66.4	65.9	66.2	65.7	66.2	65.4	66.4
5°	65.5	66.1	66.1	65.0	66.1	65.0	65.9	64.7	65.9	64.5	65.9
7.5°	64.2	65.4	65.4	64.0	65.2	64.2	65.2	64.0	65.0	63.5	65.2
10°	62.6	63.8	64.0	62.6	64.0	62.8	64.4	62.8	64.4	62.6	64.5
12.5°	61.6	63.0	63.3	61.8	63.5	62.0	63.8	62.1	63.8	62.0	64.2
15°	61.4	62.6	63.0	61.6	63.2	61.4	63.7	61.6	63.8	61.8	64.4
17.5°	61.6	62.6	63.0	61.4	63.0	61.6	63.5	61.8	63.8	62.0	64.4
20°	62.1	62.8	62.8	62.0	63.2	62.0	63.5	61.8	64.0	62.3	64.5
22.5°	63.7	63.8	63.8	63.2	63.8	63.0	64.2	63.0	64.5	63.2	65.2
25°	66.2	66.1	65.7	65.5	65.7	65.2	65.9	65.0	66.6	65.4	67.4
27.5°	70.7	70.0	69.7	69.7	69.5	69.7	69.7	69.3	70.0	69.7	71.0
30°	76.2	75.0	74.4	75.0	74.3	75.0	74.8	74.6	75.3	75.0	76.2
32.5°	83.3	81.3	81.0	82.0	80.6	81.8	80.8	81.3	81.8	82.1	82.8
35°	91.7	89.3	89.0	90.0	88.5	90.2	89.0	89.7	90.0	90.9	91.4
37.5°	101.7	98.8	98.2	99.6	97.6	99.4	97.7	99.8	99.3	100.5	101.0
40°	113.6	110.2	109.0	110.9	108.5	110.0	108.3	110.6	110.0	112.4	113.0
42.5°	128.4	123.4	122.2	124.1	120.5	121.0	119.6	122.2	121.9	125.1	125.6
45°	143.6	137.6	135.9	137.8	133.7	134.7	132.6	135.4	135.2	137.8	139.8
47.5°	160.5	153.2	151.0	153.0	148.0	149.2	147.2	150.1	150.3	153.2	155.2
50°	178.2	170.5	167.6	169.4	164.8	165.7	163.6	167.2	167.0	171.0	172.5
52.5°	197.3	189.5	187.2	188.1	182.6	183.6	181.9	186.4	185.4	187.7	190.8
55°	218.6	209.5	206.9	209.5	203.0	204.3	202.1	206.2	204.5	207.6	208.5
57.5°	240.3	231.4	229.3	231.2	225.1	226.1	223.2	226.6	225.2	227.3	228.6
60°	263.4	255.3	253.3	255.3	249.4	249.5	244.6	248.2	246.1	248.7	248.2
62.5°	285.5	278.6	278.1	281.0	273.5	272.6	266.6	269.2	266.3	268.0	266.0
65°	304.3	300.4	301.0	303.4	296.8	294.7	287.9	289.2	285.0	285.0	282.4
67.5°	328.9	324.7	324.7	326.7	318.3	313.0	303.6	302.4	295.4	294.0	288.0
70°	349.5	350.7	349.3	351.0	341.1	330.3	317.8	311.8	302.6	298.1	291.1
71°	342.1	349.0	351.4	352.7	344.5	333.7	320.7	313.0	304.1	298.1	290.6
72.5°	308.7	325.3	334.8	334.8	335.8	328.9	316.4	308.1	298.0	290.1	283.1
75°	216.3	243.4	255.5	254.2	263.1	266.1	267.2	263.6	257.9	246.6	241.7
77.5°	96.4	127.0	145.3	145.5	155.1	163.4	170.1	177.1	174.6	169.1	168.7
80°	21.9	39.7	50.8	51.3	60.1	67.8	72.4	79.4	80.3	72.4	67.9
82.5°	9.4	11.1	12.7	12.5	15.4	18.5	21.9	23.8	22.9	19.0	18.0
85°	3.9	5.1	5.5	5.1	6.3	7.0	8.2	8.4	9.8	8.7	9.2
87.5°	0.0	0.2	0.2	0.0	0.3	0.0	0.3	0.2	0.9	0.3	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°	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
2.5°	65.7	66.6	65.7	66.6	66.1	66.6	66.4	66.6	65.7	66.6	65.5
5°	64.5	65.9	64.7	65.7	64.7	65.9	65.9	65.9	64.7	66.1	64.9
7.5°	63.5	65.0	63.5	65.0	64.0	65.2	65.2	65.7	64.4	65.9	64.2
10°	62.5	64.4	62.5	64.7	63.0	64.9	65.0	65.4	63.5	65.5	63.8
12.5°	62.0	64.4	62.1	64.4	62.3	64.9	65.0	65.4	63.3	65.9	63.7
15°	62.0	64.5	62.1	64.5	62.3	64.9	65.2	65.5	63.3	66.1	63.7
17.5°	62.0	64.5	62.5	64.7	62.6	65.0	65.4	65.7	63.7	66.1	64.0
20°	62.5	64.9	62.8	65.2	63.2	65.5	65.7	66.2	64.0	66.2	64.4
22.5°	63.7	65.7	64.0	66.2	64.7	66.6	66.7	67.3	65.5	67.4	65.9
25°	65.7	67.9	66.6	68.3	67.4	69.0	69.3	69.3	68.6	69.8	69.3
27.5°	70.0	71.7	70.7	72.2	71.7	72.9	72.9	73.1	73.6	73.9	74.4
30°	75.5	76.7	76.3	77.2	77.4	78.0	78.0	79.1	81.1	79.1	78.9
32.5°	82.8	83.5	83.7	84.0	84.7	85.2	85.9	87.1	88.8	84.0	82.5
35°	91.9	92.1	92.6	93.1	94.3	94.6	96.9	96.0	96.0	88.5	85.2
37.5°	101.8	101.8	103.2	103.2	106.1	106.3	108.5	104.1	101.5	91.7	86.9
40°	114.3	114.2	115.7	116.0	120.0	120.1	119.8	110.0	104.6	92.6	86.1
42.5°	127.5	128.0	130.1	130.8	133.7	134.7	130.4	114.2	105.9	92.1	83.2
45°	141.9	142.9	145.5	147.4	150.4	149.2	139.0	116.0	104.4	89.0	77.5
47.5°	157.6	158.7	160.7	164.3	165.7	164.3	146.0	116.7	102.0	84.2	69.3
50°	173.5	175.3	178.2	183.3	184.0	180.6	154.5	119.3	100.1	79.2	59.9
52.5°	191.5	193.2	196.6	205.2	203.5	196.5	164.6	124.1	100.6	76.2	51.9
55°	210.5	212.9	219.6	228.0	224.2	213.2	175.8	131.1	102.7	72.9	43.0
57.5°	230.5	233.1	241.8	251.8	244.4	229.7	187.1	136.6	103.7	66.2	33.2
60°	250.4	254.0	265.3	273.5	262.0	243.7	197.2	140.2	101.0	53.6	25.7
62.5°	268.5	274.3	287.0	291.5	273.1	252.6	202.6	137.6	89.9	37.0	20.7
65°	281.4	288.9	297.1	296.6	271.1	249.7	198.5	125.8	66.9	24.5	17.6
67.5°	286.8	293.9	295.7	287.0	256.4	236.9	183.8	101.3	38.5	18.3	15.4
70°	288.9	294.9	284.3	263.2	227.6	205.4	150.3	64.5	21.1	14.9	13.3
71°	288.0	290.9	270.8	246.1	209.3	186.0	131.8	49.1	18.0	13.9	12.7
72.5°	276.4	272.3	241.1	213.8	177.5	153.9	102.5	31.0	14.7	12.5	11.8
75°	225.9	207.4	177.5	151.6	120.8	96.7	55.6	15.9	11.8	10.8	10.3
77.5°	147.7	131.6	107.0	86.9	66.1	50.1	22.8	11.0	9.4	9.1	8.9
80°	52.7	42.3	32.0	28.1	21.2	17.5	11.1	8.4	7.4	7.5	7.4
82.5°	14.9	13.7	11.8	11.0	9.6	9.4	7.2	6.3	5.8	6.2	6.0
85°	7.4	6.3	4.6	4.4	3.4	3.9	3.6	4.3	3.8	3.9	3.6
87.5°	0.5	0.7	0.2	0.5	0.0	0.5	0.7	0.9	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°	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9	66.9
2.5°	66.7	66.1	66.9	66.1	66.9	66.4	66.9	66.4	66.9	67.3	67.3
5°	66.4	65.2	66.7	65.9	66.9	66.1	66.7	66.2	67.1	67.4	67.8
7.5°	66.2	65.0	66.6	65.4	66.9	65.7	66.7	66.1	67.1	67.4	68.1
10°	66.1	64.5	66.6	64.9	66.7	65.5	66.7	65.7	66.9	67.3	67.4
12.5°	66.1	64.4	66.6	64.7	66.7	65.0	66.6	65.0	66.7	66.6	66.1
15°	66.2	64.0	66.6	64.4	66.6	64.5	66.4	64.4	66.1	65.5	65.2
17.5°	66.2	64.0	66.4	64.2	66.2	64.4	65.9	64.0	65.5	65.4	64.9
20°	66.6	64.4	66.4	64.9	66.4	64.5	65.7	64.0	65.2	64.2	62.1
22.5°	67.6	66.1	67.6	66.1	66.7	65.0	65.5	63.5	63.3	61.6	58.4
25°	70.0	69.3	69.0	67.1	66.6	64.4	63.7	61.3	60.4	57.8	53.4
27.5°	73.1	71.5	69.5	67.3	65.0	62.3	60.4	58.5	56.6	53.4	47.7
30°	75.1	72.9	68.6	65.5	61.4	59.2	56.0	53.9	51.2	47.1	41.6
32.5°	76.5	73.1	66.6	63.0	57.5	54.6	50.3	48.1	44.2	40.2	36.3
35°	76.8	72.4	63.8	59.9	52.7	49.5	43.8	41.4	37.7	34.9	33.4
37.5°	75.5	70.0	59.6	54.4	46.6	42.8	37.5	35.8	33.5	32.5	31.8
40°	72.7	65.4	52.9	46.9	38.8	35.9	33.2	33.2	32.0	31.5	30.3
42.5°	67.8	58.5	44.3	38.5	33.0	32.5	31.0	31.7	30.8	30.5	28.8
45°	60.1	48.8	35.8	32.3	29.8	30.1	29.1	29.8	29.3	29.1	27.0
47.5°	50.1	38.8	30.1	28.9	27.2	27.7	26.9	27.7	27.2	27.4	25.8
50°	40.0	31.5	26.7	26.0	24.8	25.2	24.6	25.5	25.3	26.0	25.2
52.5°	32.0	26.9	23.8	23.3	22.6	22.8	22.6	23.4	23.6	25.0	25.0
55°	26.5	23.1	21.4	21.2	20.5	20.7	20.9	21.7	22.4	24.1	25.0
57.5°	22.8	20.7	19.5	19.3	19.0	19.2	19.5	20.5	21.2	23.4	25.3
60°	20.0	18.8	18.0	18.0	17.6	18.0	18.3	19.3	20.2	22.8	24.6
62.5°	18.0	17.1	16.6	16.8	16.6	16.9	17.3	18.3	19.3	21.7	23.6
65°	16.1	15.6	15.2	15.4	15.4	15.9	16.3	17.3	18.1	20.4	22.8
67.5°	14.5	14.2	14.0	14.2	14.4	14.9	15.4	16.1	16.8	18.8	21.6
70°	13.3	13.0	13.0	13.0	13.2	13.7	14.4	14.7	15.4	17.6	20.2
71°	12.7	12.5	12.5	12.5	12.7	13.2	13.9	14.2	14.9	17.1	19.5
72.5°	11.8	11.8	12.0	11.8	12.2	12.3	13.0	13.3	14.2	16.4	18.7
75°	10.4	10.4	10.6	10.6	11.0	11.0	11.5	11.8	12.8	14.7	16.8
77.5°	9.2	9.2	9.6	9.4	9.4	9.1	9.8	10.1	11.0	12.8	14.9
80°	7.9	7.7	8.0	7.5	7.4	7.0	7.5	8.0	9.4	10.6	11.0
82.5°	6.2	5.6	5.8	5.3	5.3	5.0	5.5	5.6	6.5	7.7	8.4
85°	3.8	3.1	3.4	2.9	3.3	2.9	3.1	3.3	3.9	4.8	4.6
87.5°	0.9	0.5	0.7	0.2	0.5	0.0	0.5	0.2	0.5	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°	66.9	66.9	66.9	66.9
2.5°	67.6	67.4	67.6	67.4
5°	68.5	68.5	68.6	68.8
7.5°	68.6	69.0	69.3	69.1
10°	67.4	67.1	67.4	67.1
12.5°	65.5	65.2	65.5	65.5
15°	65.4	65.2	65.4	65.4
17.5°	64.2	63.3	63.0	62.8
20°	60.8	59.2	58.9	58.4
22.5°	56.0	53.7	53.1	52.5
25°	50.1	47.1	45.9	45.2
27.5°	43.8	40.7	39.5	39.5
30°	38.8	36.5	35.3	35.3
32.5°	35.3	33.9	33.0	33.2
35°	32.3	31.5	31.0	31.1
37.5°	30.5	29.1	27.9	27.9
40°	28.6	26.9	25.3	25.3
42.5°	26.9	25.2	24.1	24.0
45°	25.2	24.0	23.1	22.9
47.5°	24.3	23.3	22.4	22.2
50°	24.0	22.9	21.7	21.7
52.5°	24.3	23.4	21.2	21.2
55°	25.0	24.5	21.2	20.9
57.5°	24.3	23.4	21.4	20.9
60°	22.8	21.4	21.1	20.7
62.5°	21.7	20.4	21.1	20.9
65°	20.9	19.9	21.4	21.1
67.5°	20.0	19.0	21.4	20.7
70°	19.0	18.0	19.5	18.3
71°	18.5	17.3	18.5	17.5
72.5°	17.6	16.3	16.6	15.9
75°	15.9	14.5	14.2	14.0
77.5°	13.2	11.6	11.1	11.0
80°	10.1	9.1	9.1	8.6
82.5°	7.5	6.7	6.5	5.6
85°	3.9	3.1	2.6	2.6
87.5°	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0

(END OF REPORT)