

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: P227954

Luminaire Tested: **ISS-AF-XXX-LED-E1-T4W-7030-XXB**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P227954
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29757)
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-T4W-7030-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCULED OPTICS-TYPE IV WIDE
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 562 lumens
Efficiency: N/A
Efficacy: 43.2 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type IV - 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

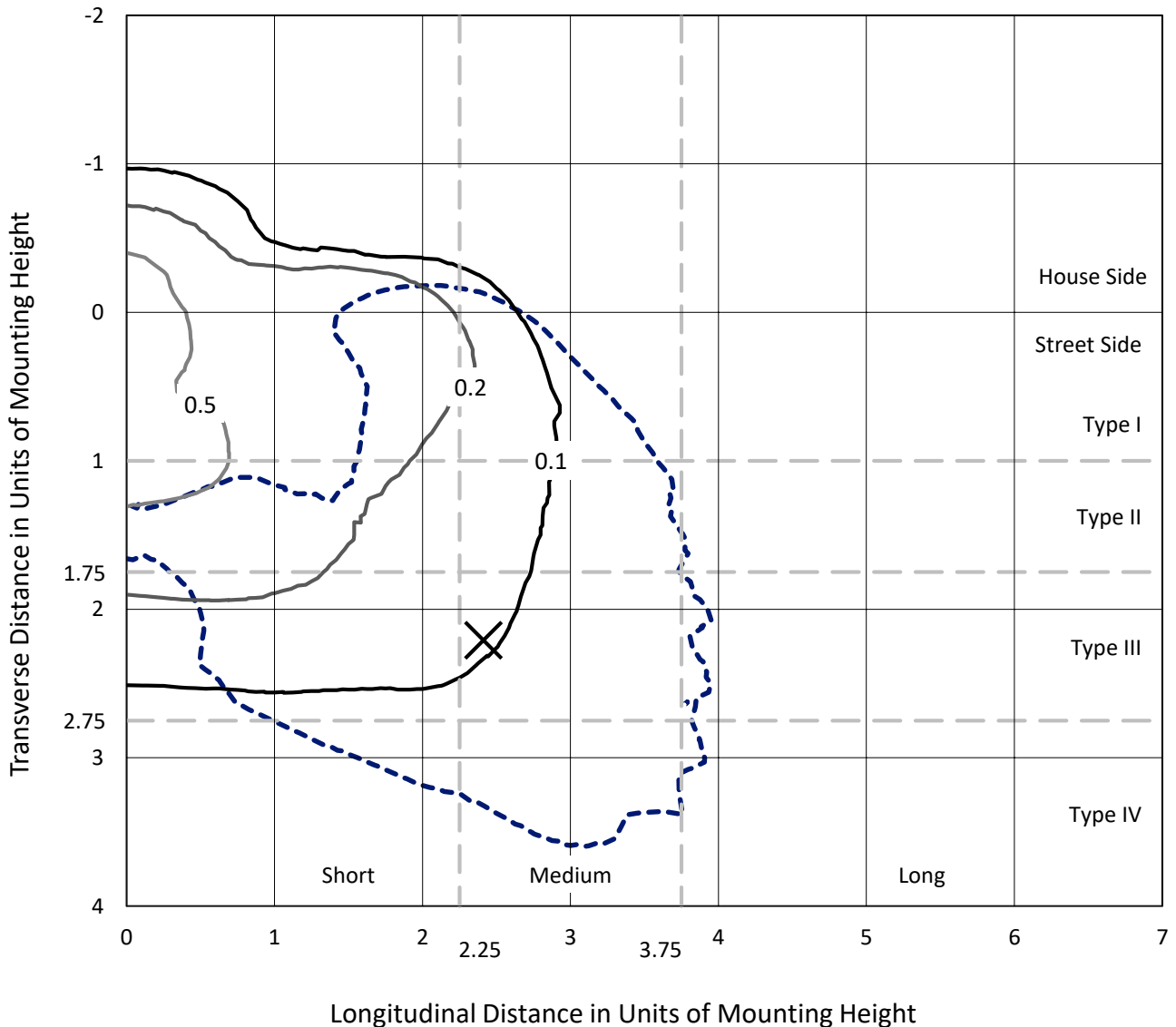


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Iso-Footcandle Lines of Horizontal Illumination

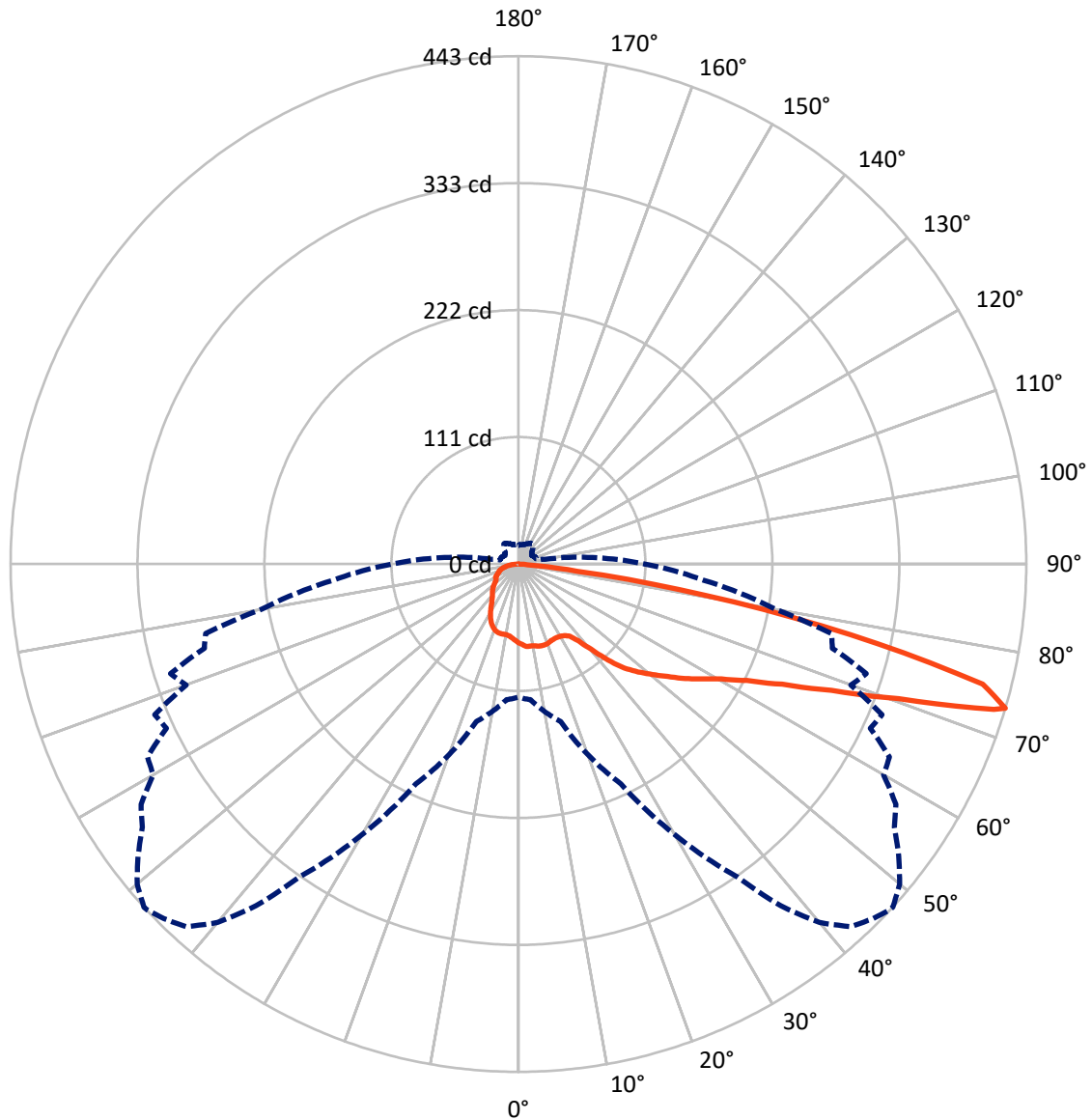
× Max cd
 - - - 1/2 Max cd



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

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Luminous Intensity Polar Plot



— Vertical Plane Through 47.5-Deg Lateral - - - Horizontal Cone Through 73-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	112.3	0.0	112.3
	% Fixture	20.0	0.0	20.0
Street Side	Lumens	449.7	0.0	449.7
	% Fixture	80.0	0.0	80.0
Total	Lumens	562.0	0.0	562.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.6	1.2
10°-20°	19.6	3.5
20°-30°	30.1	5.3
30°-40°	43.9	7.8
40°-50°	72.3	12.9
50°-60°	113.2	20.1
60°-70°	153.6	27.3
70°-80°	113.7	20.2
80°-90°	9.2	1.6
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°	562.0	100.0
0°-180°	562.0	100.0



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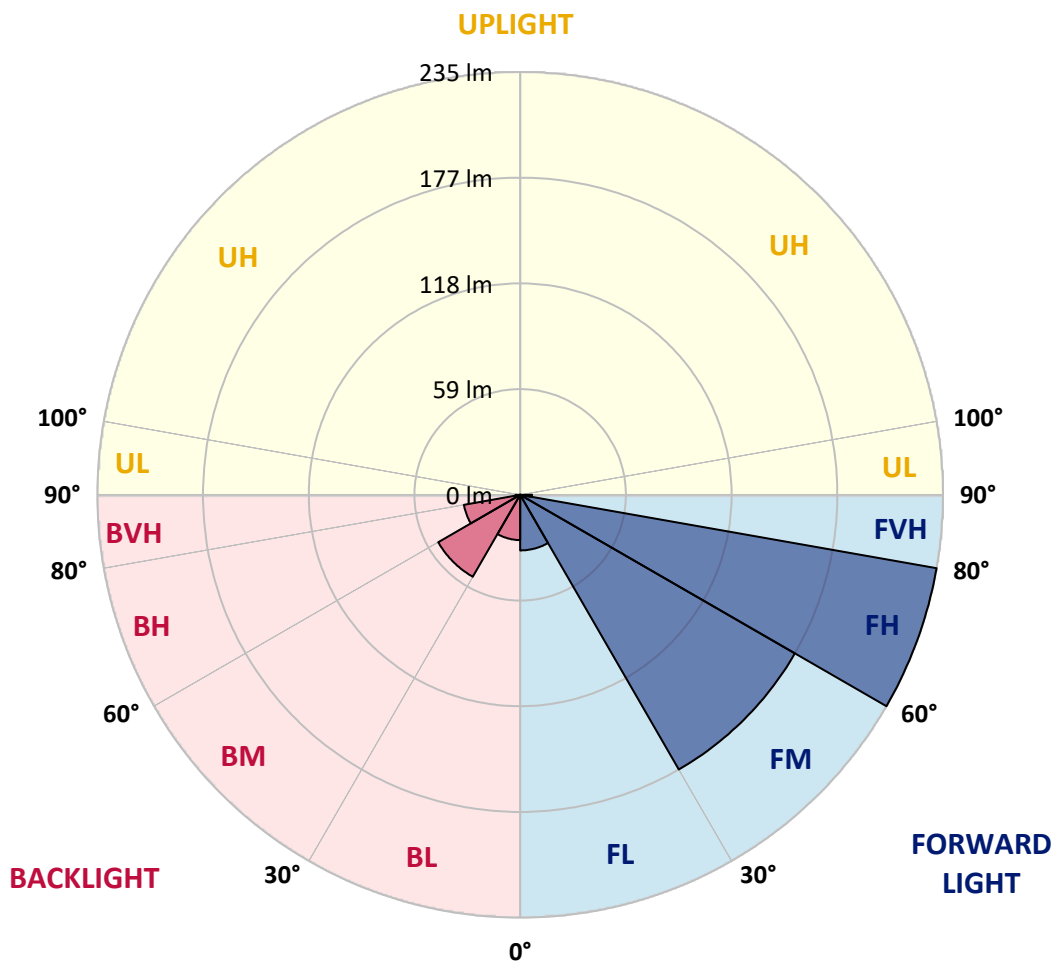
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	31.0	5.5			
FM	(30°-60°)	176.6	31.4			
FH	(60°-80°)	235.5	41.9			G0/660
FVH	(80°-90°)	6.6	1.2			G0/10
BL	(0°-30°)	25.2	4.5	B0/110		
BM	(30°-60°)	52.7	9.4	B0/220		
BH	(60°-80°)	31.8	5.7	B0/110		G0/110
BVH	(80°-90°)	2.6	0.5			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 IV Medium





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	37.5°	40°	42.5°	45°	47°	47.5°
0°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	73.1	72.9	72.4	72.2	71.6	71.2	71.1	70.9	71.4	71.1	70.5
5°	77.7	77.4	76.6	75.5	74.4	73.7	73.5	73.1	73.1	72.7	72.4
7.5°	81.1	80.9	79.8	78.1	76.2	75.0	74.2	73.7	73.8	73.5	72.4
10°	84.2	83.9	82.0	80.0	77.2	75.7	74.8	73.8	74.6	74.0	72.5
12.5°	86.6	86.3	83.7	81.1	77.9	76.2	75.3	74.8	75.5	75.1	73.5
15°	87.9	87.6	85.0	81.8	78.5	76.6	76.2	75.9	76.4	75.7	74.2
17.5°	87.2	87.2	84.8	81.4	78.7	76.8	76.2	75.9	76.6	75.9	74.2
20°	84.4	84.8	83.1	79.6	77.5	76.2	75.7	75.0	75.7	75.0	73.8
22.5°	80.9	81.3	80.3	77.2	75.7	74.8	74.6	73.8	74.4	73.8	72.7
25°	77.7	77.7	77.4	74.6	74.4	73.7	73.8	73.5	73.8	73.1	72.4
27.5°	77.9	77.9	76.4	73.7	73.5	73.5	73.5	73.5	73.7	73.1	72.4
30°	88.9	89.2	85.0	77.2	74.4	74.0	74.2	74.0	74.2	74.0	73.1
32.5°	105.4	105.4	101.3	89.2	79.4	77.0	76.1	75.9	75.3	75.1	74.4
35°	121.7	121.5	117.4	104.1	91.6	87.0	84.0	81.3	80.0	78.7	77.4
37.5°	135.4	134.9	134.3	119.1	106.1	100.7	97.2	93.1	90.5	88.3	85.3
40°	148.2	149.2	151.2	133.0	120.6	115.6	112.1	106.9	104.3	101.5	98.0
42.5°	165.9	167.2	167.3	148.0	133.8	130.4	127.6	123.7	121.0	117.6	114.5
45°	182.9	183.1	183.7	164.2	149.9	145.6	143.6	139.9	136.4	132.1	129.5
47.5°	194.6	194.1	196.5	182.7	168.8	164.0	161.0	155.5	150.1	144.7	140.8
50°	208.9	208.3	208.3	203.9	190.7	185.1	180.0	169.6	163.8	157.1	151.6
52.5°	221.5	219.5	220.8	223.4	213.7	206.7	197.6	185.9	178.3	170.1	163.1
55°	238.8	228.2	231.2	240.2	236.5	225.6	213.5	201.1	192.4	183.1	176.6
57.5°	232.8	225.6	234.3	250.3	250.1	239.9	229.7	214.5	205.7	197.0	189.0
60°	211.5	215.2	234.1	257.1	258.1	250.1	241.7	227.6	220.8	211.7	203.7
62.5°	195.0	200.4	226.3	256.6	267.1	259.7	252.9	244.5	239.7	232.1	223.9
65°	194.1	197.2	222.4	256.0	280.0	276.1	272.9	269.0	268.1	262.5	253.1
67.5°	203.0	205.9	229.1	270.3	298.9	297.2	301.8	301.1	305.2	302.4	294.6
70°	185.5	187.2	215.8	275.3	342.1	349.5	359.9	359.4	368.1	361.4	352.3
72.5°	130.2	133.6	158.8	227.4	343.0	382.7	406.8	427.3	436.7	438.4	434.1
73°	116.3	118.9	142.3	211.9	333.8	376.1	408.5	429.5	437.8	443.0	443.4
75°	40.4	41.7	62.1	128.4	266.8	328.2	369.9	388.9	386.8	402.0	418.7
77.5°	13.0	13.2	16.1	33.2	128.8	203.7	250.3	267.7	257.7	274.2	296.5
80°	8.0	8.3	10.6	15.0	33.8	61.8	104.6	131.0	125.6	141.0	164.7
82.5°	4.8	5.0	6.5	9.3	13.5	15.0	19.7	26.7	32.8	39.5	51.8
85°	2.2	2.4	3.2	4.3	5.6	5.8	5.6	5.2	5.9	6.9	8.0
87.5°	0.0	0.0	0.2	0.4	0.2	0.0	0.0	0.0	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):

	50°	52.5°	55°	57.5°	60°	62.5°	65°	67.5°	70°	72.5°	75°
0°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	71.1	70.5	70.5	69.8	70.1	69.4	69.8	69.0	69.4	68.5	69.0
5°	72.2	71.2	71.2	70.1	70.3	69.0	69.6	68.1	68.8	67.2	68.3
7.5°	72.7	71.1	71.8	69.8	70.7	68.5	69.6	67.2	68.6	66.0	67.9
10°	73.5	71.1	72.4	70.1	71.2	68.6	70.1	67.2	69.0	65.9	67.5
12.5°	74.6	72.0	73.1	70.5	72.0	69.0	70.5	67.5	69.4	65.9	67.9
15°	75.3	72.7	73.8	71.2	72.4	69.0	70.9	67.3	69.4	65.7	67.9
17.5°	75.1	72.7	73.8	70.9	72.2	68.8	70.7	67.2	69.0	65.1	67.5
20°	74.4	72.4	73.1	70.5	71.6	68.3	69.9	66.4	68.5	64.6	67.0
22.5°	73.5	71.4	72.4	69.9	71.1	67.7	69.2	66.0	68.1	64.2	66.4
25°	72.9	71.2	71.8	69.4	70.9	67.9	69.4	65.9	68.1	64.2	66.8
27.5°	72.7	71.2	72.4	70.1	71.4	68.8	70.3	67.2	69.0	64.9	67.5
30°	73.8	72.5	73.5	71.6	72.7	70.1	71.6	68.6	70.5	66.6	69.6
32.5°	75.1	73.8	74.8	73.1	74.8	72.2	74.0	71.1	73.3	69.4	72.2
35°	77.9	76.4	77.7	75.9	77.7	75.7	77.7	74.6	77.4	73.5	76.4
37.5°	85.2	81.1	82.4	80.3	82.2	79.6	83.1	80.0	83.1	79.4	83.5
40°	96.7	89.4	90.7	86.5	89.2	85.3	89.6	87.2	91.5	86.8	92.0
42.5°	111.7	104.8	103.5	97.0	99.4	94.8	99.1	94.8	100.6	96.1	102.6
45°	125.4	118.2	116.1	109.8	111.5	105.4	110.8	104.8	112.4	107.2	115.4
47.5°	136.7	128.2	126.5	119.3	122.3	116.5	123.2	116.9	126.2	121.0	130.4
50°	147.1	136.5	136.2	128.4	133.4	127.6	137.1	132.8	141.9	136.7	147.9
52.5°	159.0	145.6	147.5	140.4	148.4	143.6	154.5	148.4	160.3	154.7	167.0
55°	171.6	157.5	162.3	158.1	167.5	164.4	173.6	168.1	179.8	174.2	187.2
57.5°	185.5	173.5	182.0	180.0	188.3	184.4	194.8	189.8	201.5	196.8	209.8
60°	203.7	195.7	204.1	203.9	211.1	210.9	217.6	214.6	225.8	223.7	235.6
62.5°	227.3	221.0	229.9	227.4	236.2	234.7	242.8	242.8	250.8	253.6	265.5
65°	259.0	250.6	261.2	257.5	266.2	266.6	271.8	272.7	282.4	285.5	295.7
67.5°	302.0	292.4	300.7	293.7	303.7	303.1	307.6	309.4	310.7	318.4	319.5
70°	364.0	349.5	357.1	347.5	349.3	350.6	342.3	348.4	333.6	345.6	329.3
72.5°	431.0	414.5	401.3	391.6	372.5	369.7	345.4	350.6	319.1	329.5	296.5
73°	434.5	418.5	400.7	390.7	368.1	365.1	339.1	343.6	308.7	318.5	283.8
75°	395.0	399.2	356.4	360.5	321.1	325.8	285.1	290.3	247.5	254.9	210.2
77.5°	266.2	280.5	232.5	250.5	201.7	219.7	164.6	166.2	121.3	113.4	77.0
80°	131.9	144.1	102.2	111.7	75.0	73.7	44.9	37.3	31.7	32.5	33.4
82.5°	38.0	42.9	26.5	26.3	18.7	17.8	17.8	18.9	19.3	21.5	21.0
85°	7.2	8.7	7.6	10.2	9.1	10.0	9.3	10.8	10.0	12.4	10.8
87.5°	0.2	0.0	0.2	0.6	0.6	1.3	0.9	1.5	1.5	2.6	2.4
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°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	68.3	69.2	68.8	68.5	68.1	67.9	67.2	67.5	66.6	67.3	66.6
5°	66.8	67.9	67.3	66.6	66.2	65.9	64.6	65.5	64.0	65.3	64.2
7.5°	65.1	67.0	66.4	65.7	64.9	64.6	62.0	64.0	61.8	63.6	61.8
10°	64.6	66.6	65.9	64.9	64.2	63.8	60.7	63.1	60.7	62.7	60.3
12.5°	64.2	66.6	65.5	64.6	63.8	63.3	59.7	62.7	59.6	62.5	59.7
15°	63.8	66.6	65.1	64.0	63.3	62.7	59.0	62.3	58.8	62.1	59.0
17.5°	63.4	66.0	64.7	63.4	62.7	62.3	58.3	61.8	58.1	61.8	58.6
20°	62.9	65.5	64.0	62.7	62.0	61.4	57.3	61.0	57.1	60.9	57.3
22.5°	62.1	64.9	63.6	62.3	61.6	60.7	56.2	60.1	56.0	59.7	56.4
25°	62.3	65.3	63.6	62.3	61.2	60.3	55.5	59.7	55.1	58.8	55.1
27.5°	63.3	65.9	64.2	63.1	61.6	60.5	55.5	59.4	54.7	57.9	54.0
30°	65.1	67.7	66.2	64.6	63.3	61.8	56.4	59.6	54.7	56.8	52.9
32.5°	68.3	70.7	69.2	67.9	66.4	64.2	58.3	60.5	55.1	56.0	51.9
35°	72.4	75.3	74.6	73.7	71.8	67.9	61.4	61.8	55.8	55.3	50.6
37.5°	79.0	83.1	82.9	82.7	80.7	73.7	64.9	64.4	56.6	54.7	49.0
40°	87.8	92.6	93.9	95.2	90.9	80.5	69.0	67.0	57.0	53.6	46.4
42.5°	98.0	104.4	108.3	110.8	103.0	88.1	73.7	69.9	57.0	51.9	43.4
45°	110.6	118.2	125.6	128.2	116.3	96.3	78.5	72.4	56.2	49.3	39.5
47.5°	126.0	134.9	145.1	146.4	130.8	105.0	81.8	74.0	53.8	45.8	36.0
50°	143.0	153.8	168.8	167.9	146.2	114.1	84.0	75.1	49.5	41.7	31.7
52.5°	162.1	175.7	197.0	192.8	164.9	125.4	86.1	76.6	44.3	36.9	27.5
55°	186.1	202.2	228.9	219.8	185.7	137.8	89.0	76.8	37.5	31.2	24.3
57.5°	211.9	229.1	263.3	246.7	205.2	147.5	87.8	70.9	30.6	26.3	21.9
60°	242.8	263.8	297.6	271.8	221.5	150.8	78.7	58.4	26.2	23.7	20.8
62.5°	277.5	298.3	325.8	289.2	230.8	145.3	58.4	40.4	22.4	21.1	19.1
65°	314.5	334.1	339.3	290.7	224.7	120.8	36.2	26.5	19.5	18.9	17.6
67.5°	348.4	350.3	326.5	266.6	195.0	84.2	24.7	21.1	18.0	17.8	17.1
70°	357.1	325.0	271.4	207.6	140.8	50.1	20.0	18.4	17.3	17.3	16.7
72.5°	298.3	247.5	181.4	125.8	76.8	26.7	17.1	16.7	16.3	16.3	16.0
73°	279.8	228.0	162.5	109.8	64.9	23.9	16.7	16.3	16.1	16.0	15.8
75°	185.9	143.2	92.2	55.7	30.2	17.3	14.8	14.8	14.7	14.8	14.7
77.5°	71.6	54.0	35.6	23.9	17.3	13.5	12.6	12.8	12.6	13.0	12.8
80°	31.5	31.2	23.6	16.9	12.6	10.2	10.2	10.2	10.4	10.6	10.6
82.5°	21.5	18.2	13.9	10.4	7.6	7.4	7.6	7.6	7.8	8.0	7.8
85°	11.9	10.0	7.4	4.6	4.1	5.0	5.0	5.0	4.8	4.8	4.6
87.5°	3.7	2.8	2.0	0.6	0.9	0.9	1.3	1.1	1.1	1.3	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):

	115°	117.5°	120°	122.5°	125°	127.5°	130°	135°	145°	155°	165°
0°	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0	69.0
2.5°	67.3	66.8	67.3	66.4	67.2	66.4	67.0	67.0	66.8	66.8	66.8
5°	65.1	64.2	65.1	64.6	65.1	64.4	64.9	65.1	65.3	65.9	65.7
7.5°	63.4	61.6	63.6	61.8	63.4	61.8	63.3	63.4	64.0	64.7	65.3
10°	62.7	60.3	62.7	60.5	62.5	60.7	62.5	62.7	63.3	64.2	65.1
12.5°	62.3	59.7	62.3	60.1	62.3	60.5	62.3	62.9	63.3	64.0	65.1
15°	62.0	59.4	62.3	59.9	62.3	60.5	62.5	62.9	63.4	64.2	65.1
17.5°	61.8	58.8	62.0	59.7	62.0	60.1	62.3	62.3	63.1	64.0	64.6
20°	61.0	58.3	61.0	58.8	61.0	59.4	61.2	61.2	62.0	62.3	63.3
22.5°	59.9	57.0	59.6	57.5	59.6	57.9	59.4	59.4	59.9	60.5	61.0
25°	58.3	55.5	57.7	55.8	57.3	55.8	57.0	56.8	57.1	57.5	57.9
27.5°	56.4	53.6	55.5	53.4	54.4	52.9	53.6	53.2	53.4	53.6	53.8
30°	54.4	51.6	52.5	50.6	50.8	49.3	49.7	49.2	49.0	48.8	48.4
32.5°	52.1	49.2	49.2	47.3	46.9	45.6	45.6	44.9	44.3	43.6	42.9
35°	49.3	46.8	45.5	44.0	43.2	41.9	41.7	40.8	39.5	38.2	37.5
37.5°	46.6	43.6	41.7	40.3	39.5	38.6	38.4	37.7	36.2	34.7	33.6
40°	42.9	39.9	37.8	37.3	36.7	36.0	36.2	35.2	33.8	32.1	31.2
42.5°	39.1	36.5	34.9	34.7	34.3	34.1	34.3	33.6	31.9	30.4	29.3
45°	36.0	33.4	31.7	31.5	31.4	32.1	32.3	32.1	30.2	28.8	27.3
47.5°	32.8	29.7	28.6	28.2	28.4	29.5	29.9	30.4	28.8	27.1	25.0
50°	29.1	26.2	25.8	25.4	25.6	26.5	27.5	28.6	27.1	24.7	21.9
52.5°	25.8	23.2	23.4	23.0	23.4	24.1	24.9	26.7	24.9	22.4	21.1
55°	23.2	21.1	21.5	21.1	21.5	22.4	23.0	24.5	24.5	23.9	22.8
57.5°	21.3	19.9	20.2	19.9	20.4	21.1	21.7	24.9	26.7	25.2	23.0
60°	20.2	18.9	19.1	18.7	19.1	20.2	21.3	25.0	28.0	25.0	23.4
62.5°	18.6	17.4	17.3	17.3	17.6	19.5	20.0	23.4	27.6	24.9	23.6
65°	17.4	16.5	16.3	16.1	16.5	17.8	18.4	21.7	26.7	23.6	21.3
67.5°	16.9	16.1	15.8	15.4	15.8	16.9	17.4	20.4	25.2	22.4	20.0
70°	16.3	15.6	15.4	15.0	15.2	16.0	16.7	18.7	23.9	21.1	18.7
72.5°	15.6	14.8	14.7	14.1	14.3	15.0	15.4	17.6	22.3	19.9	17.4
73°	15.4	14.7	14.5	13.9	14.1	14.7	15.0	17.3	21.9	19.7	17.3
75°	14.5	13.7	13.5	13.2	13.4	13.4	13.7	15.8	20.8	18.6	16.1
77.5°	12.8	12.2	12.1	11.7	11.5	11.3	11.9	13.9	18.9	16.7	13.0
80°	10.6	10.0	9.8	9.1	9.1	9.1	9.8	11.9	14.1	12.1	10.0
82.5°	7.8	7.4	7.4	6.9	6.7	6.5	7.0	8.2	11.1	9.5	7.8
85°	4.6	4.5	4.6	4.1	4.3	4.1	4.6	5.8	6.1	4.8	3.7
87.5°	1.1	1.3	1.3	1.3	1.1	1.1	0.9	0.7	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°	69.0	69.0
2.5°	66.6	66.4
5°	65.7	65.7
7.5°	65.3	65.3
10°	65.5	65.5
12.5°	65.5	65.9
15°	66.0	65.9
17.5°	65.5	65.5
20°	64.0	64.4
22.5°	62.0	62.0
25°	58.6	58.8
27.5°	54.2	54.5
30°	48.6	49.0
32.5°	42.3	42.7
35°	37.3	37.5
37.5°	34.0	34.0
40°	31.2	31.2
42.5°	28.6	28.4
45°	26.0	25.6
47.5°	23.4	23.2
50°	21.1	21.1
52.5°	21.5	21.5
55°	23.2	23.2
57.5°	23.4	23.2
60°	25.4	25.2
62.5°	26.5	27.1
65°	23.2	22.4
67.5°	22.1	21.0
70°	19.9	18.2
72.5°	17.6	16.7
73°	17.1	16.3
75°	15.2	14.8
77.5°	11.5	11.3
80°	9.6	9.5
82.5°	6.5	6.1
85°	2.8	2.6
87.5°	0.0	0.0
90°	0.0	0.0

(END OF REPORT)