

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: P228734

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228734
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29765)
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-RW-7030-XXB
Description: IMPACT ELITE LED QUATER SPHERE LUMINAIRE, EMERGENCY MODE WITH BATTERY BACKPACK BOX LIGHT SQUARE WITH ACCUELED OPTICS-RECTANGULAR WIDE TYPE I
Light Source: (16) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 560 lumens
Efficiency: N/A
Efficacy: 43.1 lumens/watt
Luminous Opening: Rectangular (W 0.5' x L: 0.5' x H: 0')
IES Classification: Type II - Medium - Full 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

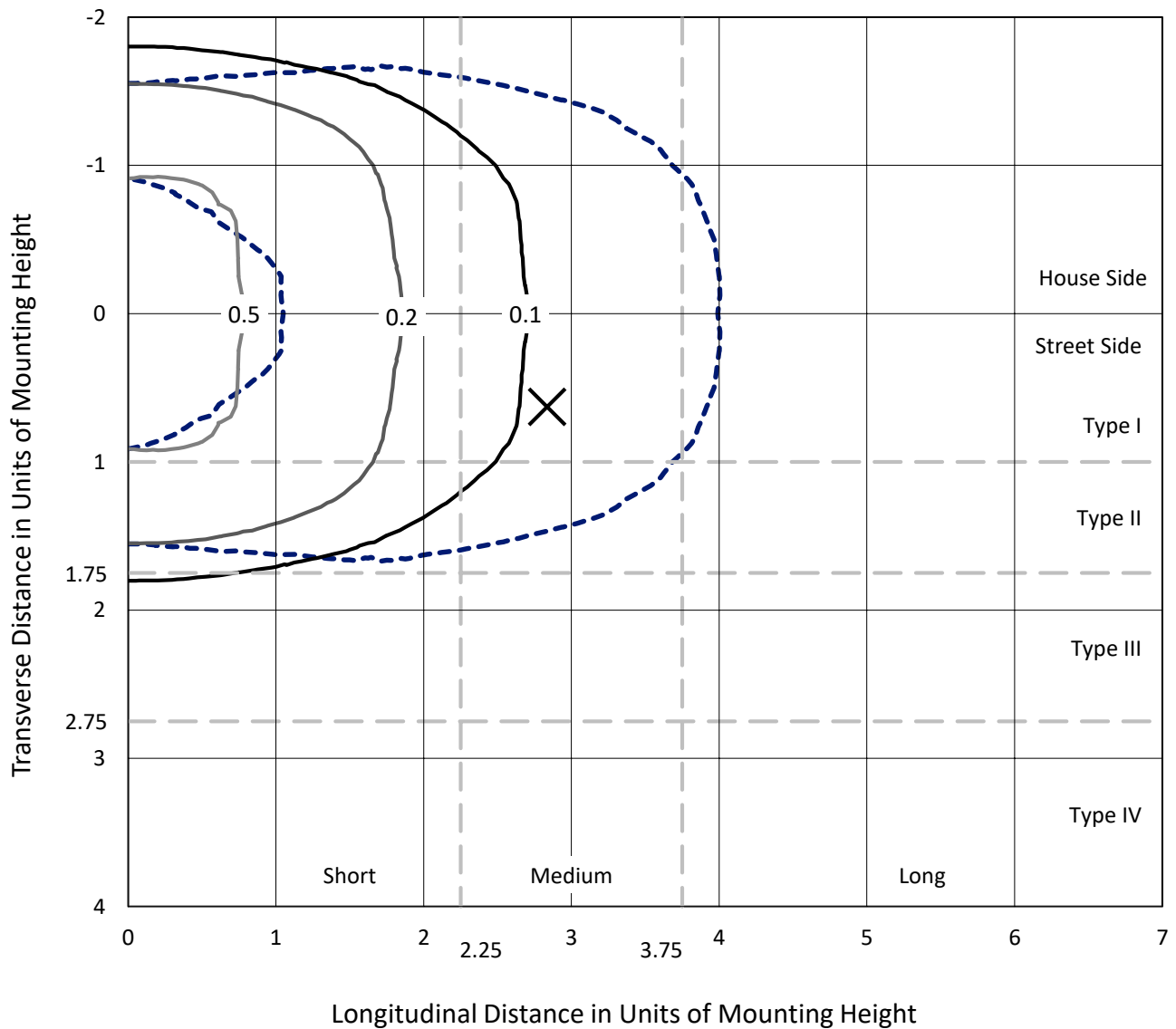


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

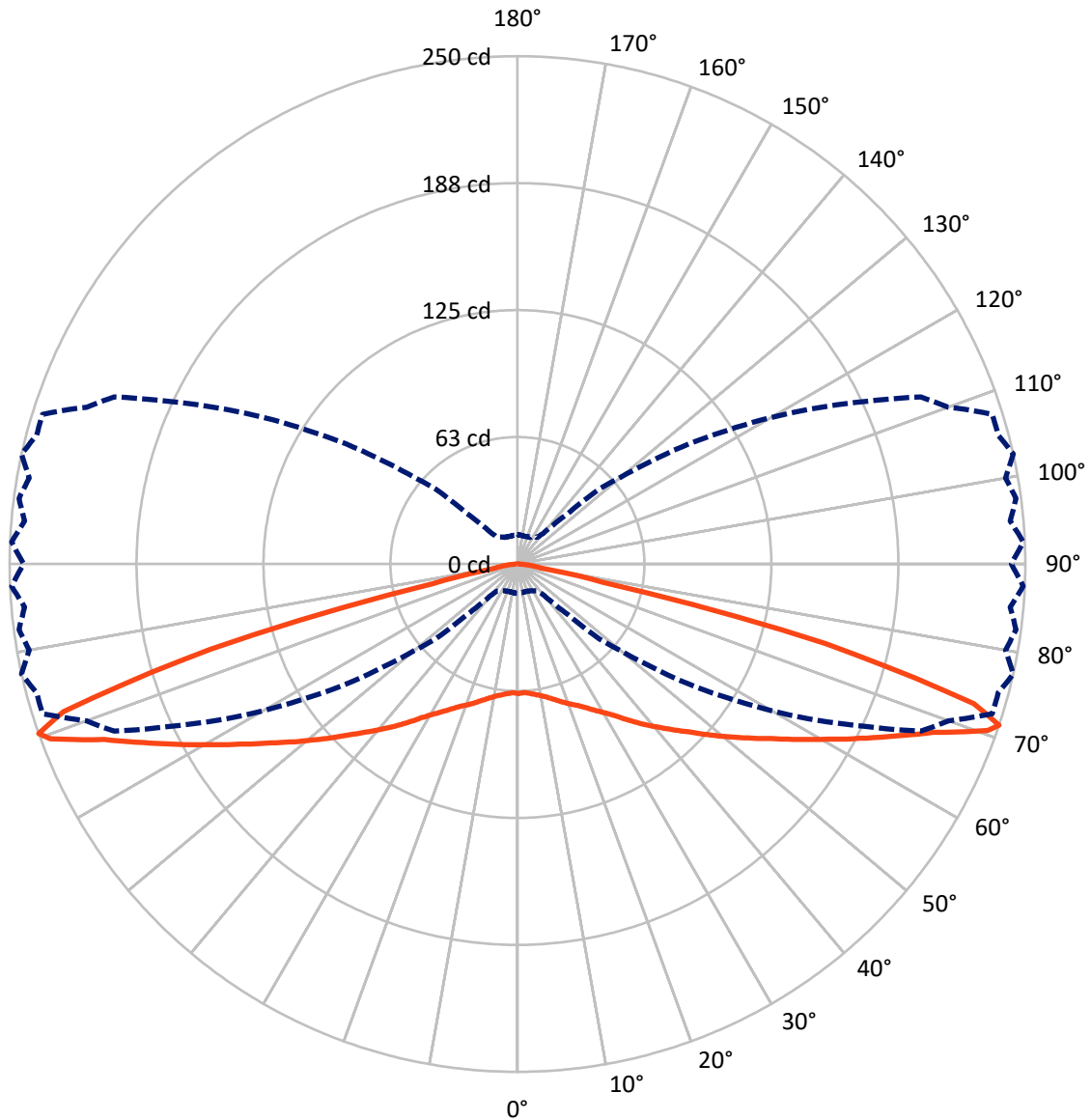


Based on 10 foot mounting height. Maximum calculated value = 0.7 fc
 Type II - Medium - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 77.5-Deg Lateral - - - Horizontal Cone Through 71-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	280.0	0.0	280.0
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	280.0	0.0	280.0
	% Fixture	50.0	0.0	50.0
Total	Lumens	560.0	0.0	560.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	6.2	1.1
10°-20°	19.2	3.4
20°-30°	36.0	6.4
30°-40°	62.7	11.2
40°-50°	102.3	18.3
50°-60°	141.2	25.2
60°-70°	133.9	23.9
70°-80°	55.1	9.8
80°-90°	3.3	0.6
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°	560.0	100.0
0°-180°	560.0	100.0



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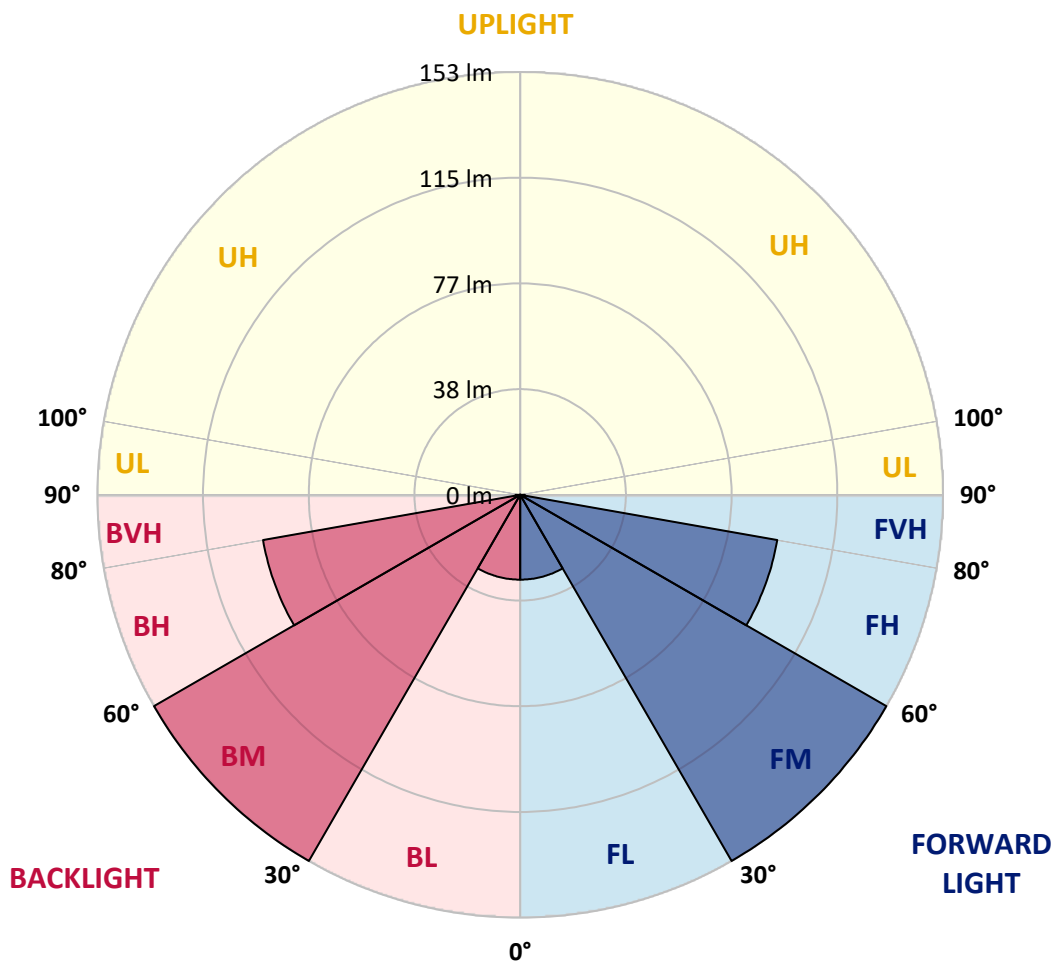
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	30.7	5.5			
FM	(30°-60°)	153.1	27.3			
FH	(60°-80°)	94.5	16.9			G0/660
FVH	(80°-90°)	1.7	0.3			G0/10
BL	(0°-30°)	30.7	5.5	B0/110		
BM	(30°-60°)	153.1	27.3	B0/220		
BH	(60°-80°)	94.5	16.9	B0/110		G0/110
BVH	(80°-90°)	1.7	0.3			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°	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
2.5°	63.6	63.4	63.6	63.6	63.8	63.8	63.8	63.8	63.6	64.0	64.0
5°	63.6	63.6	63.8	63.8	64.1	64.5	64.0	64.1	64.3	64.1	64.5
7.5°	63.6	63.6	63.6	64.0	64.5	64.9	64.5	64.7	65.1	65.1	65.4
10°	63.0	62.8	63.2	64.0	64.9	65.4	65.2	66.0	65.8	66.0	66.4
12.5°	62.1	62.1	62.8	64.0	65.6	66.0	66.2	66.5	67.1	66.9	67.5
15°	62.3	62.5	63.2	64.7	66.7	67.1	67.3	67.3	68.2	67.8	69.0
17.5°	63.6	63.8	64.5	66.0	68.4	68.4	68.6	69.0	70.3	69.5	71.0
20°	65.6	65.8	66.5	68.2	70.4	70.3	70.6	71.0	72.7	71.9	73.4
22.5°	68.0	68.4	69.3	71.2	73.6	72.5	73.2	74.0	75.6	74.3	76.4
25°	71.4	71.9	72.8	74.9	77.5	76.2	76.9	77.5	79.3	77.5	79.5
27.5°	76.2	76.6	77.3	79.5	81.7	80.8	81.2	81.6	83.8	81.7	84.0
30°	81.9	82.5	83.2	85.3	87.5	86.0	86.8	87.1	89.0	86.9	88.8
32.5°	89.2	89.7	90.6	92.5	94.4	92.1	92.3	92.9	94.7	92.7	94.7
35°	97.7	98.1	99.4	101.6	102.9	99.4	99.5	99.5	102.0	99.2	101.4
37.5°	106.6	107.0	108.4	110.7	112.1	108.3	108.3	108.4	110.7	107.5	109.6
40°	115.9	117.0	118.6	120.9	122.0	117.5	117.9	117.7	120.3	116.6	118.6
42.5°	125.1	126.0	128.5	131.1	132.4	127.9	128.1	127.5	130.1	126.2	127.9
45°	133.1	133.8	136.8	140.5	142.5	137.9	137.9	137.9	140.5	135.7	137.7
47.5°	139.6	140.1	143.3	148.7	152.0	147.4	147.7	147.0	150.9	145.0	147.7
50°	144.2	144.4	148.5	154.6	160.3	156.1	156.6	157.0	160.7	155.5	157.9
52.5°	145.7	146.1	150.7	158.1	166.5	163.7	165.7	166.5	169.8	164.2	167.6
55°	140.5	141.4	148.5	159.4	170.7	169.8	172.2	173.7	178.0	173.3	176.8
57.5°	123.1	124.2	134.0	152.0	171.6	173.1	176.5	178.9	185.0	182.2	186.1
60°	98.2	99.2	109.2	130.9	160.0	169.1	176.7	183.5	189.8	190.4	195.4
62.5°	67.5	68.8	78.4	99.2	134.6	146.6	157.6	168.9	179.4	192.2	198.7
65°	33.0	33.7	41.9	61.9	98.8	114.2	127.0	142.9	152.7	171.1	181.7
67.5°	18.2	18.2	19.5	25.8	52.8	68.0	81.7	101.8	111.8	134.4	147.9
70°	15.2	15.2	14.8	15.8	20.0	23.7	30.8	42.3	56.2	79.0	91.2
71°	14.5	14.3	14.1	14.5	16.1	16.9	19.8	26.0	35.2	54.5	66.5
72.5°	13.5	13.2	12.6	12.8	13.7	13.7	14.3	15.2	18.7	25.6	34.3
75°	11.7	11.3	10.8	10.8	10.9	11.1	11.3	11.7	11.9	12.2	13.7
77.5°	9.6	9.3	8.7	8.7	8.5	8.7	9.1	9.3	8.9	9.6	9.8
80°	7.4	6.9	6.7	6.7	6.5	6.3	6.3	6.3	6.5	6.9	7.0
82.5°	4.6	4.3	4.4	4.3	4.1	4.1	4.1	4.1	4.3	4.3	4.6
85°	2.2	2.2	2.4	2.2	1.9	1.9	1.7	1.5	1.7	1.5	1.9
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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°	77.5°
0°	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8	63.8
2.5°	63.4	63.8	63.6	63.8	63.4	63.8	63.2	63.8	63.6	63.8	63.4
5°	64.0	64.5	64.0	64.7	64.0	64.7	64.0	64.7	64.1	64.7	64.0
7.5°	64.5	65.6	64.9	65.8	64.9	66.0	64.9	66.0	65.2	66.2	64.9
10°	65.6	66.9	65.8	66.9	65.8	67.1	65.8	67.3	66.2	67.7	66.0
12.5°	66.5	68.0	66.9	68.4	66.7	68.8	67.1	69.3	67.5	69.7	67.5
15°	67.8	69.7	68.6	70.3	68.6	70.8	68.8	71.4	69.3	71.7	69.3
17.5°	69.7	71.7	70.3	72.3	70.4	72.8	70.6	73.4	71.4	73.8	71.4
20°	72.3	74.0	72.5	74.7	72.7	74.9	73.0	75.3	73.6	75.8	73.6
22.5°	75.3	76.7	75.6	76.9	75.1	76.9	75.1	76.9	75.6	77.5	75.6
25°	78.6	79.7	78.4	79.7	78.0	79.5	77.9	79.3	78.0	79.7	78.4
27.5°	83.0	83.6	82.1	83.2	81.2	82.7	80.8	82.3	81.0	82.5	81.6
30°	87.9	88.4	86.9	87.7	85.5	86.4	84.3	85.6	84.5	85.6	85.1
32.5°	93.2	94.0	92.3	92.7	90.8	91.0	89.3	89.9	89.0	89.3	89.2
35°	99.4	100.3	98.4	99.0	96.9	96.9	95.5	95.3	94.9	94.5	94.5
37.5°	107.1	107.5	106.0	106.0	103.6	103.6	101.8	101.8	101.0	100.3	99.9
40°	115.7	115.9	113.4	113.3	110.8	110.8	108.8	108.3	107.0	106.0	105.5
42.5°	124.8	124.6	121.0	121.4	117.9	118.1	115.5	114.9	113.6	112.5	111.4
45°	134.0	133.3	129.8	129.6	125.5	125.7	122.5	122.2	120.3	119.2	117.9
47.5°	143.5	143.1	139.2	138.3	134.0	133.8	129.8	129.8	127.9	126.8	125.5
50°	153.3	153.1	148.7	148.1	143.7	142.9	138.1	138.1	135.9	135.5	133.6
52.5°	164.0	163.3	158.5	158.3	154.0	153.5	148.3	147.9	144.6	144.4	142.4
55°	174.6	173.3	170.2	168.7	164.4	164.2	159.6	158.7	154.4	154.4	151.8
57.5°	184.3	183.1	180.5	179.2	175.2	174.6	169.6	169.6	165.9	165.7	162.9
60°	194.3	194.6	191.9	191.3	187.4	187.2	182.2	182.2	178.5	178.3	175.2
62.5°	202.8	206.5	205.4	205.8	202.4	201.9	196.9	196.5	192.2	191.7	189.1
65°	194.4	207.4	215.8	221.3	221.0	220.8	216.0	215.2	209.8	208.4	204.1
67.5°	163.3	180.2	195.4	212.1	224.3	233.6	236.3	235.2	230.6	226.3	221.1
70°	109.4	128.8	148.1	168.9	189.8	210.2	231.2	240.2	249.9	246.5	245.6
71°	83.2	103.2	122.5	144.4	166.6	189.3	215.0	225.8	245.2	245.1	250.1
72.5°	46.9	64.7	85.3	104.4	125.3	148.7	175.2	187.0	215.0	220.6	235.0
75°	15.0	20.6	27.2	43.0	56.0	77.3	96.9	108.8	127.3	136.6	156.8
77.5°	10.0	11.1	11.5	13.3	15.0	21.3	28.9	35.4	38.9	40.8	42.8
80°	7.2	7.8	8.2	9.1	9.3	10.4	10.4	11.5	11.3	12.0	11.5
82.5°	4.6	5.2	5.4	5.7	5.9	6.7	7.0	7.8	7.8	8.2	8.0
85°	2.2	2.6	2.6	3.0	3.0	3.5	3.5	4.1	4.1	4.6	4.4
87.5°	0.2	0.2	0.2	0.4	0.4	0.4	0.6	0.7	0.7	0.7	0.7
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):

	80°	82.5°	85°	87.5°	90°
0°	63.8	63.8	63.8	63.8	63.8
2.5°	64.0	63.8	64.0	63.6	64.0
5°	64.9	64.1	65.1	64.1	65.1
7.5°	66.4	65.4	66.5	65.1	66.4
10°	67.7	66.4	67.8	66.4	67.7
12.5°	69.9	67.8	70.3	67.8	70.3
15°	72.1	69.7	72.7	70.1	72.5
17.5°	74.1	71.9	74.7	72.1	74.5
20°	76.0	74.0	76.4	73.8	76.4
22.5°	77.9	76.6	78.4	76.6	78.4
25°	80.3	79.3	80.6	79.3	80.6
27.5°	83.0	82.7	83.4	82.5	83.6
30°	86.2	86.4	86.6	86.4	86.8
32.5°	90.1	91.0	90.6	90.6	90.6
35°	95.5	97.1	96.0	96.4	96.2
37.5°	100.5	102.9	101.4	102.0	101.6
40°	106.0	107.7	107.3	107.3	107.0
42.5°	112.1	114.2	113.6	113.8	113.4
45°	118.8	120.7	119.9	119.7	119.9
47.5°	126.4	128.5	127.5	127.3	127.5
50°	134.4	136.8	136.1	135.7	136.1
52.5°	143.1	146.1	145.7	145.3	145.9
55°	153.3	156.1	155.7	156.1	156.3
57.5°	163.5	166.6	165.9	166.8	167.2
60°	176.3	178.1	178.3	178.5	178.7
62.5°	189.3	190.0	190.6	191.1	191.3
65°	204.3	204.5	204.8	204.3	204.8
67.5°	218.7	217.4	217.2	217.8	218.2
70°	241.2	241.2	239.3	241.9	239.7
71°	244.1	247.6	243.6	249.3	243.2
72.5°	229.7	236.2	231.5	236.7	230.6
75°	159.8	174.8	174.6	182.0	176.1
77.5°	44.3	41.5	44.3	38.2	36.5
80°	12.0	10.9	11.9	10.0	11.3
82.5°	8.0	6.9	6.7	5.4	5.7
85°	4.6	3.5	3.5	2.8	3.0
87.5°	0.7	0.2	0.7	0.4	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)