

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: P228730

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

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P228730
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-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) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 647.5 lumens
Efficiency: N/A
Efficacy: 49.8 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

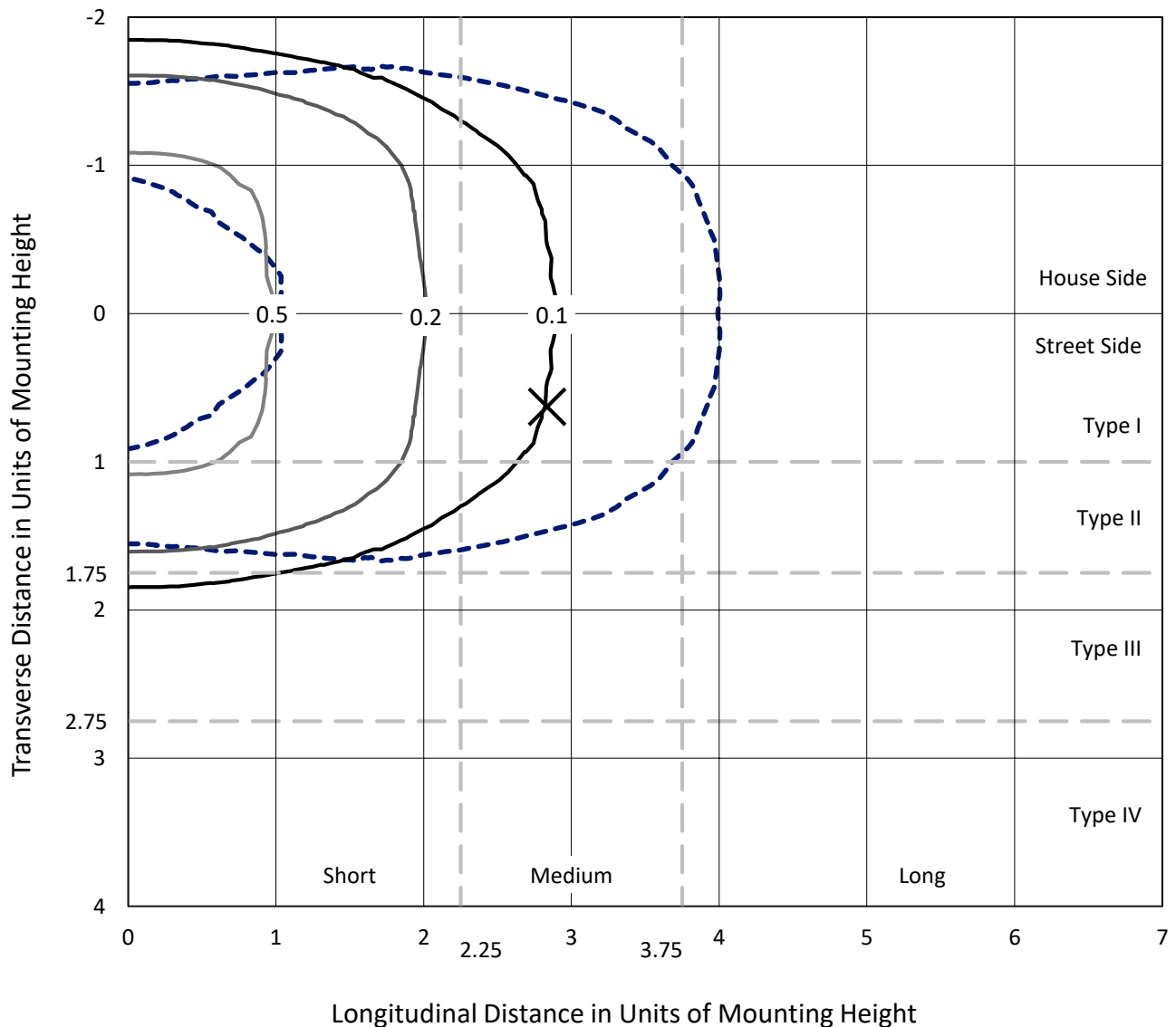
Input Watts (W): 13
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

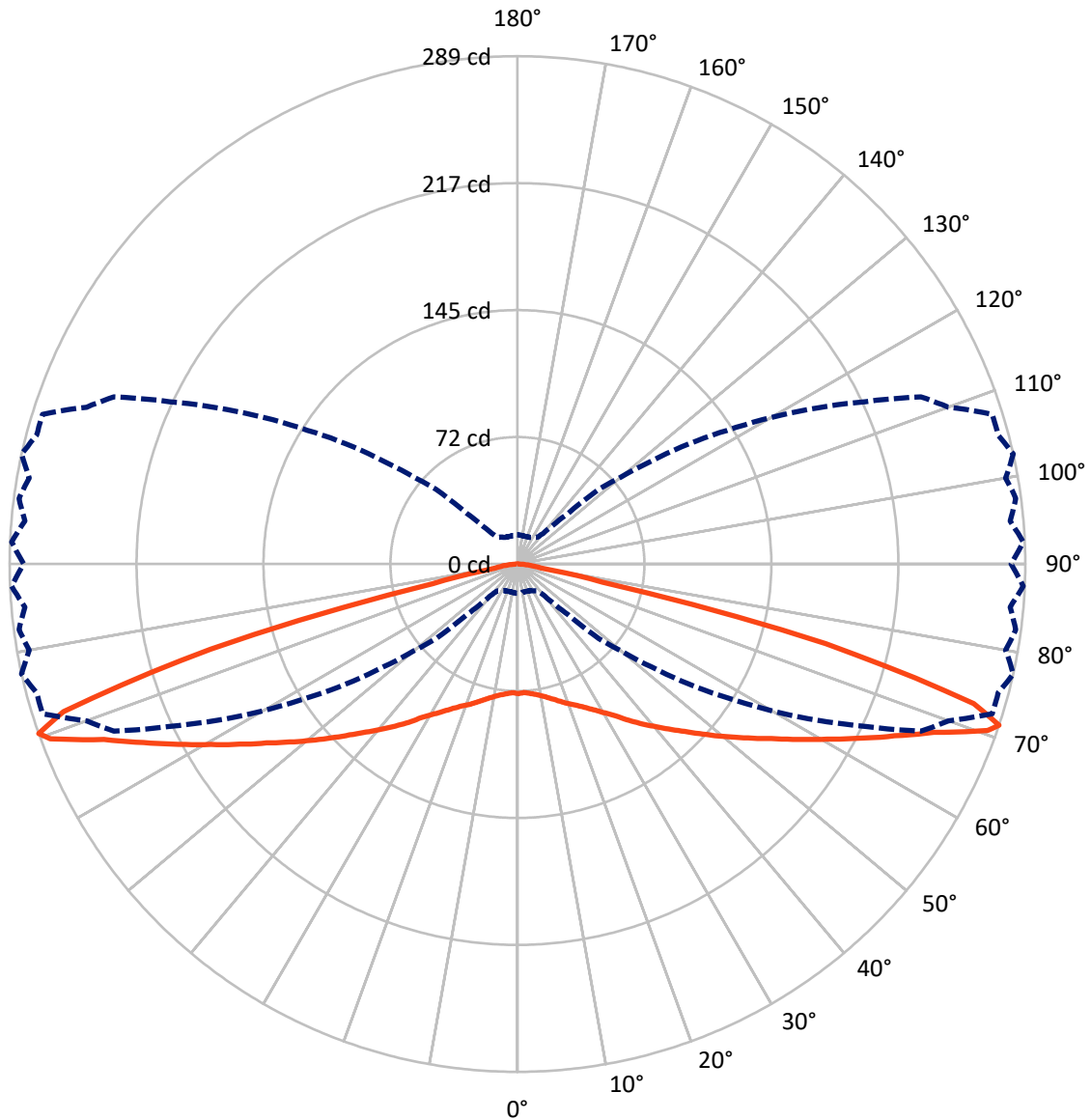
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.8 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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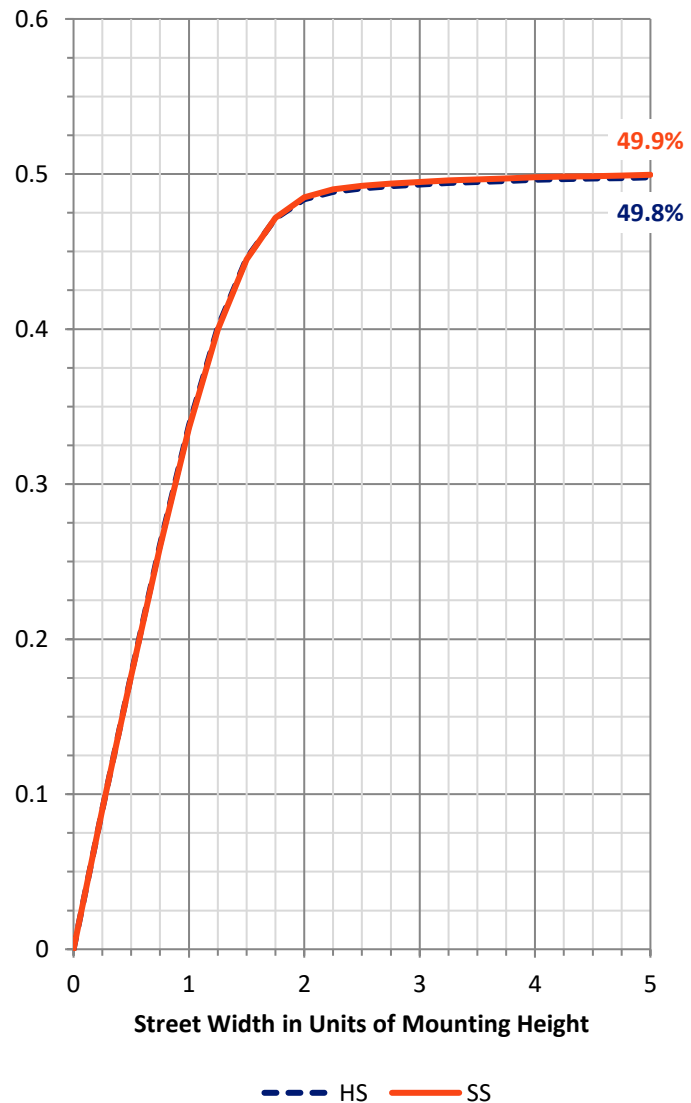
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	323.8	0.0	323.8
	% Fixture	50.0	0.0	50.0
Street Side	Lumens	323.8	0.0	323.8
	% Fixture	50.0	0.0	50.0
Total	Lumens	647.5	0.0	647.5
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	7.1	1.1
10°-20°	22.3	3.4
20°-30°	41.7	6.4
30°-40°	72.5	11.2
40°-50°	118.3	18.3
50°-60°	163.2	25.2
60°-70°	154.9	23.9
70°-80°	63.7	9.8
80°-90°	3.8	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°	647.5	100.0
0°-180°	647.5	100.0



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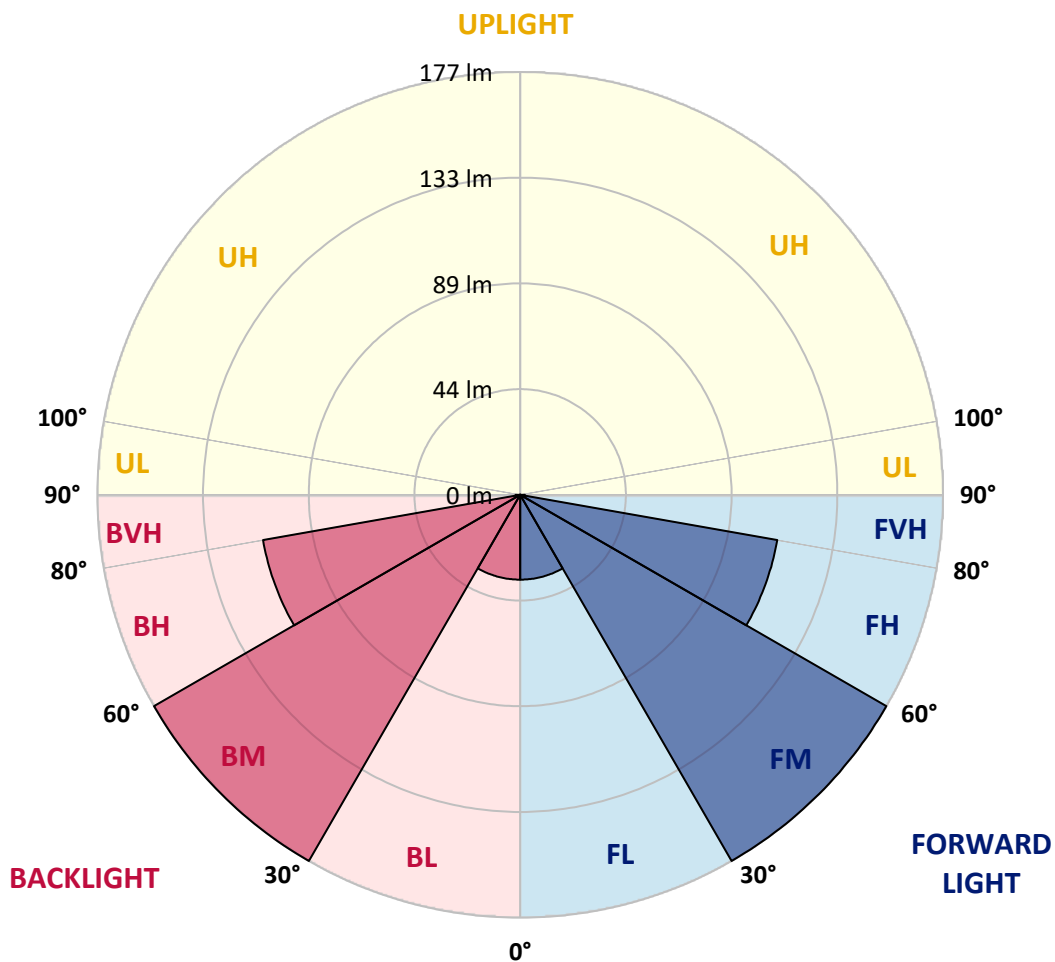
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	35.5	5.5			
FM	(30°-60°)	177.0	27.3			
FH	(60°-80°)	109.3	16.9			G0/660
FVH	(80°-90°)	1.9	0.3			G0/10
BL	(0°-30°)	35.5	5.5	B0/110		
BM	(30°-60°)	177.0	27.3	B0/220		
BH	(60°-80°)	109.3	16.9	B0/110		G0/110
BVH	(80°-90°)	1.9	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°	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
2.5°	73.6	73.3	73.6	73.6	73.8	73.8	73.8	73.8	73.6	74.0	74.0
5°	73.6	73.6	73.8	73.8	74.2	74.6	74.0	74.2	74.4	74.2	74.6
7.5°	73.6	73.6	73.6	74.0	74.6	75.0	74.6	74.8	75.2	75.2	75.7
10°	72.8	72.6	73.0	74.0	75.0	75.7	75.5	76.3	76.1	76.3	76.7
12.5°	71.8	71.8	72.6	74.0	75.9	76.3	76.5	76.9	77.5	77.3	78.1
15°	72.0	72.2	73.0	74.8	77.1	77.5	77.8	77.8	78.9	78.5	79.7
17.5°	73.6	73.8	74.6	76.3	79.1	79.1	79.3	79.7	81.2	80.4	82.0
20°	75.9	76.1	76.9	78.9	81.4	81.2	81.6	82.0	84.0	83.2	84.9
22.5°	78.7	79.1	80.2	82.3	85.1	83.8	84.7	85.5	87.5	85.9	88.3
25°	82.6	83.2	84.2	86.6	89.6	88.1	89.0	89.6	91.8	89.6	92.0
27.5°	88.1	88.5	89.4	92.0	94.5	93.5	93.9	94.3	96.9	94.5	97.1
30°	94.7	95.3	96.3	98.6	101.2	99.4	100.4	100.8	102.9	100.6	102.7
32.5°	103.1	103.7	104.9	107.0	109.1	106.5	106.7	107.4	109.6	107.2	109.6
35°	112.9	113.3	114.9	117.4	119.0	114.9	115.1	115.1	117.8	114.7	117.2
37.5°	123.3	123.7	125.4	128.0	129.7	125.2	125.2	125.4	128.0	124.3	126.6
40°	134.0	135.2	137.2	139.7	141.1	135.8	136.4	136.2	139.1	134.8	137.2
42.5°	144.6	145.8	148.5	151.5	153.0	147.9	148.1	147.5	150.5	146.0	147.9
45°	153.9	154.8	158.1	162.4	164.8	159.5	159.5	159.5	162.4	156.9	159.3
47.5°	161.4	162.0	165.7	171.9	175.7	170.4	170.8	170.0	174.5	167.7	170.8
50°	166.7	166.9	171.7	178.7	185.4	180.4	181.2	181.6	185.9	179.8	182.6
52.5°	168.5	168.9	174.2	182.8	192.5	189.2	191.6	192.5	196.3	189.9	193.7
55°	162.4	163.6	171.7	184.3	197.4	196.3	199.2	200.8	205.7	200.4	204.5
57.5°	142.3	143.6	155.0	175.7	198.5	200.2	204.1	206.8	213.9	210.7	215.2
60°	113.6	114.7	126.2	151.3	184.9	195.5	204.3	212.2	219.5	220.1	225.9
62.5°	78.1	79.5	90.6	114.7	155.6	169.5	182.2	195.3	207.5	222.3	229.8
65°	38.2	39.0	48.5	71.6	114.3	132.1	146.8	165.2	176.7	197.8	210.0
67.5°	21.0	21.0	22.5	29.8	61.1	78.7	94.5	117.6	129.2	155.4	171.0
70°	17.6	17.6	17.2	18.2	23.1	27.4	35.6	48.9	65.0	91.3	105.5
71°	16.7	16.5	16.3	16.7	18.6	19.5	22.9	30.0	40.7	63.0	76.9
72.5°	15.7	15.2	14.5	14.8	15.9	15.9	16.5	17.6	21.7	29.6	39.7
75°	13.5	13.1	12.5	12.5	12.7	12.9	13.1	13.5	13.7	14.1	15.9
77.5°	11.2	10.7	10.0	10.0	9.8	10.0	10.5	10.7	10.3	11.2	11.4
80°	8.6	8.0	7.7	7.7	7.5	7.3	7.3	7.3	7.5	8.0	8.2
82.5°	5.3	4.9	5.1	4.9	4.7	4.7	4.7	4.7	4.9	4.9	5.3
85°	2.6	2.6	2.8	2.6	2.1	2.1	1.9	1.7	1.9	1.7	2.1
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°	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8	73.8
2.5°	73.3	73.8	73.6	73.8	73.3	73.8	73.0	73.8	73.6	73.8	73.3
5°	74.0	74.6	74.0	74.8	74.0	74.8	74.0	74.8	74.2	74.8	74.0
7.5°	74.6	75.9	75.0	76.1	75.0	76.3	75.0	76.3	75.5	76.5	75.0
10°	75.9	77.3	76.1	77.3	76.1	77.5	76.1	77.8	76.5	78.3	76.3
12.5°	76.9	78.7	77.3	79.1	77.1	79.5	77.5	80.2	78.1	80.6	78.1
15°	78.5	80.6	79.3	81.2	79.3	81.8	79.5	82.6	80.2	83.0	80.2
17.5°	80.6	83.0	81.2	83.6	81.4	84.2	81.6	84.9	82.6	85.3	82.6
20°	83.6	85.5	83.8	86.3	84.0	86.6	84.5	87.1	85.1	87.7	85.1
22.5°	87.1	88.7	87.5	89.0	86.8	89.0	86.8	89.0	87.5	89.6	87.5
25°	90.8	92.2	90.6	92.2	90.2	92.0	90.0	91.8	90.2	92.2	90.6
27.5°	96.1	96.7	94.9	96.3	93.9	95.6	93.5	95.1	93.7	95.3	94.3
30°	101.6	102.2	100.6	101.4	98.8	99.8	97.5	99.0	97.7	99.0	98.4
32.5°	107.8	108.6	106.7	107.2	105.1	105.3	103.3	103.9	102.9	103.3	103.1
35°	114.9	116.0	113.9	114.5	112.1	112.1	110.4	110.2	109.8	109.4	109.4
37.5°	123.9	124.3	122.7	122.7	119.8	119.8	117.6	117.6	116.8	116.0	115.5
40°	133.7	134.0	131.1	130.9	128.2	128.2	125.8	125.2	123.7	122.7	121.9
42.5°	144.2	144.0	139.9	140.3	136.4	136.6	133.5	132.9	131.3	130.1	128.8
45°	155.0	154.2	150.1	149.9	145.2	145.4	141.7	141.3	139.1	137.8	136.4
47.5°	165.9	165.5	161.0	159.9	155.0	154.8	150.1	150.1	147.9	146.6	145.2
50°	177.3	177.1	171.9	171.2	166.1	165.2	159.7	159.7	157.1	156.7	154.6
52.5°	189.7	188.8	183.2	183.0	178.1	177.5	171.4	171.0	167.2	166.9	164.6
55°	201.9	200.4	196.7	195.1	190.2	189.9	184.5	183.5	178.5	178.5	175.5
57.5°	213.1	211.8	208.8	207.2	202.5	201.9	196.1	196.1	191.8	191.6	188.4
60°	224.6	225.0	221.9	221.2	216.7	216.5	210.7	210.7	206.4	206.2	202.5
62.5°	234.5	238.8	237.5	237.9	234.1	233.4	227.6	227.2	222.3	221.7	218.6
65°	224.8	239.9	249.5	255.9	255.5	255.2	249.7	248.9	242.6	240.9	236.0
67.5°	188.8	208.4	225.9	245.2	259.3	270.1	273.3	272.0	266.7	261.7	255.7
70°	126.4	148.9	171.2	195.3	219.5	243.1	267.3	277.8	288.9	285.1	284.0
71°	96.3	119.4	141.7	166.9	192.7	218.8	248.7	261.1	283.6	283.4	289.2
72.5°	54.2	74.8	98.6	120.7	144.8	171.9	202.5	216.3	248.7	255.0	271.8
75°	17.4	23.8	31.5	49.7	64.8	89.4	112.1	125.8	147.2	157.9	181.4
77.5°	11.6	12.9	13.3	15.4	17.4	24.7	33.5	40.9	45.0	47.2	49.5
80°	8.4	9.0	9.4	10.5	10.7	12.0	12.0	13.3	13.1	13.9	13.3
82.5°	5.3	6.0	6.2	6.6	6.9	7.7	8.2	9.0	9.0	9.4	9.2
85°	2.6	3.0	3.0	3.5	3.5	4.1	4.1	4.7	4.7	5.3	5.1
87.5°	0.2	0.2	0.2	0.4	0.4	0.4	0.6	0.8	0.8	0.8	0.8
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°	73.8	73.8	73.8	73.8	73.8
2.5°	74.0	73.8	74.0	73.6	74.0
5°	75.0	74.2	75.2	74.2	75.2
7.5°	76.7	75.7	76.9	75.2	76.7
10°	78.3	76.7	78.5	76.7	78.3
12.5°	80.8	78.5	81.2	78.5	81.2
15°	83.4	80.6	84.0	81.0	83.8
17.5°	85.7	83.2	86.3	83.4	86.1
20°	87.9	85.5	88.3	85.3	88.3
22.5°	90.0	88.5	90.6	88.5	90.6
25°	92.8	91.8	93.2	91.8	93.2
27.5°	96.1	95.6	96.5	95.3	96.7
30°	99.6	99.8	100.1	99.8	100.4
32.5°	104.1	105.3	104.9	104.9	104.9
35°	110.4	112.3	111.0	111.5	111.2
37.5°	116.2	119.0	117.2	117.8	117.4
40°	122.7	124.5	124.1	124.1	123.7
42.5°	129.7	132.1	131.3	131.7	131.1
45°	137.4	139.5	138.7	138.5	138.7
47.5°	146.2	148.5	147.5	147.2	147.5
50°	155.4	158.1	157.3	156.9	157.3
52.5°	165.5	168.9	168.5	168.1	168.7
55°	177.3	180.4	180.0	180.4	180.7
57.5°	189.0	192.7	191.8	192.9	193.3
60°	203.9	206.0	206.2	206.4	206.6
62.5°	218.8	219.7	220.3	221.0	221.2
65°	236.2	236.4	236.8	236.2	236.8
67.5°	252.9	251.4	251.2	251.9	252.3
70°	278.9	278.9	276.7	279.7	277.1
71°	282.3	286.3	281.6	288.3	281.2
72.5°	265.6	273.0	267.7	273.7	266.7
75°	184.7	202.1	201.9	210.5	203.7
77.5°	51.2	48.0	51.2	44.2	42.2
80°	13.9	12.7	13.7	11.6	13.1
82.5°	9.2	8.0	7.7	6.2	6.6
85°	5.3	4.1	4.1	3.2	3.5
87.5°	0.8	0.2	0.8	0.4	0.6
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)