

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: 175p203

Luminaire Tested: **BRC-XX-26CF**

Issue Date: 3/3/2020

**Test Information**

Test Method: LM-79-08  
Report Number: 175p203  
Test Lab: METALUX LABORATORIES  
Issue Date: 3/3/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: MCGRAW-EDISON  
Catalog Number: BRC-XX-26CF  
Description: ROUND BOLLARD WITH CLEAR ACRYLIC LENS  
Light Source: COMPACT FLUORESCENT 26 WATT TTT/841  
Ballast/Driver: -

**Summary**

Lumens per Lamp: 1800 (1 lamp)  
Luminaire Lumens: 739.3 lumens  
Efficiency: 41.1%  
Efficacy: 739.3 lumens/watt  
Luminous Opening: Vertical Cylinder (Dia: 0.67' x H: 0.33')  
IES Classification: Type V - Short - Cutoff  
BUG Rating: B1 - U2 - G1

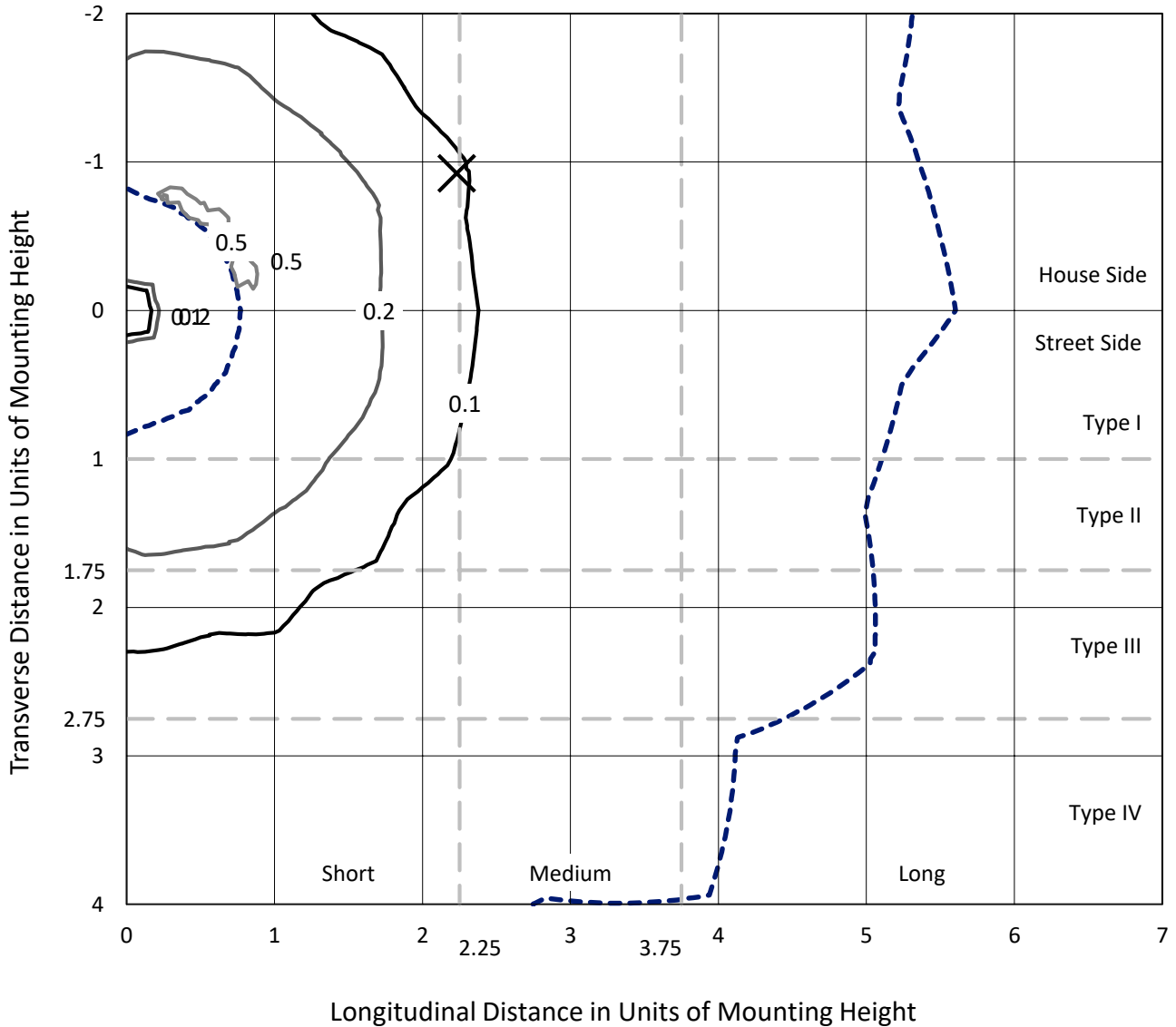
Input Watts (W): 1  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

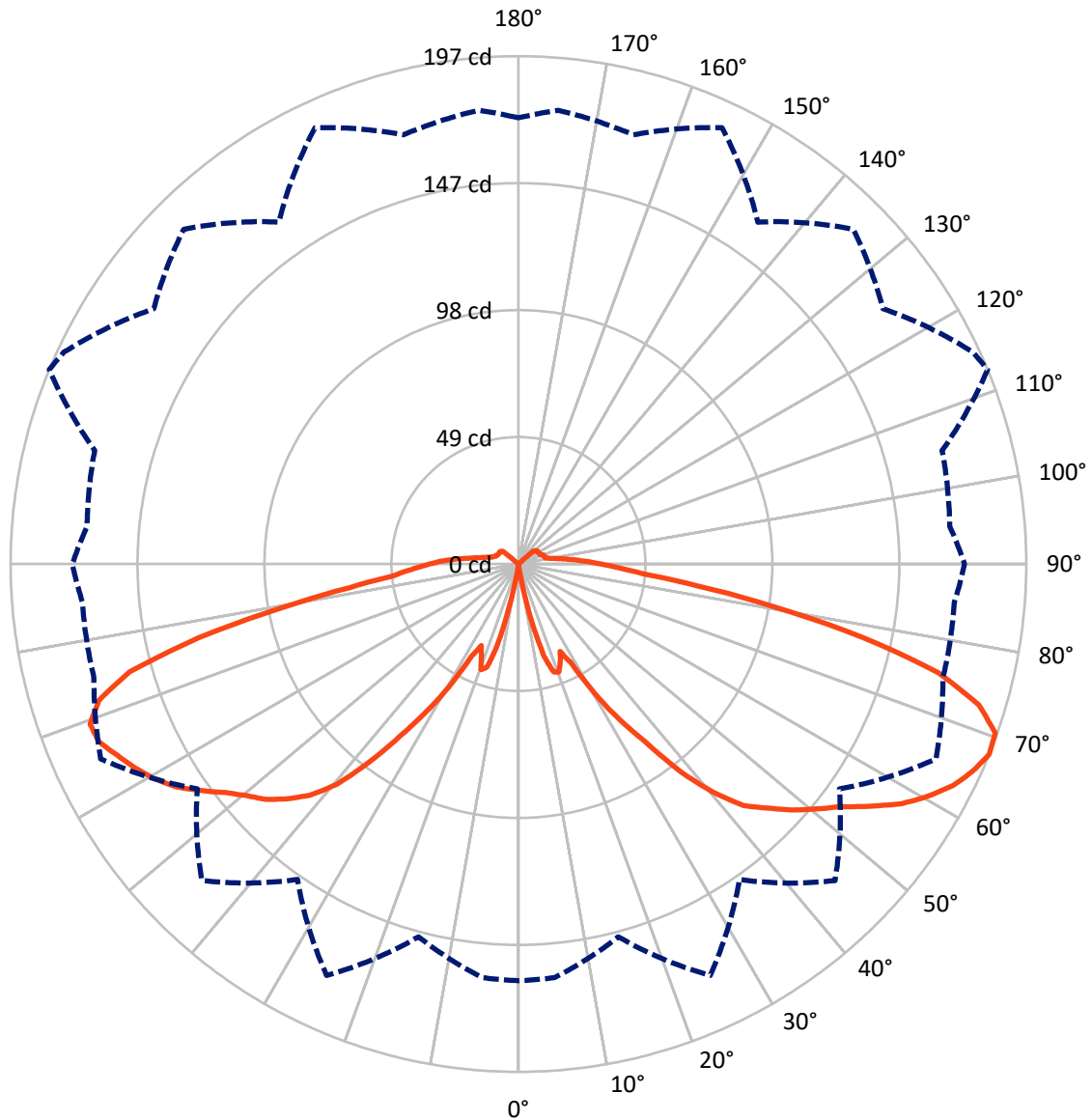
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 0.5 fc  
 Type V - Short - Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 112.5-Deg Lateral    - - - Horizontal Cone Through 67.5-Deg Vertical

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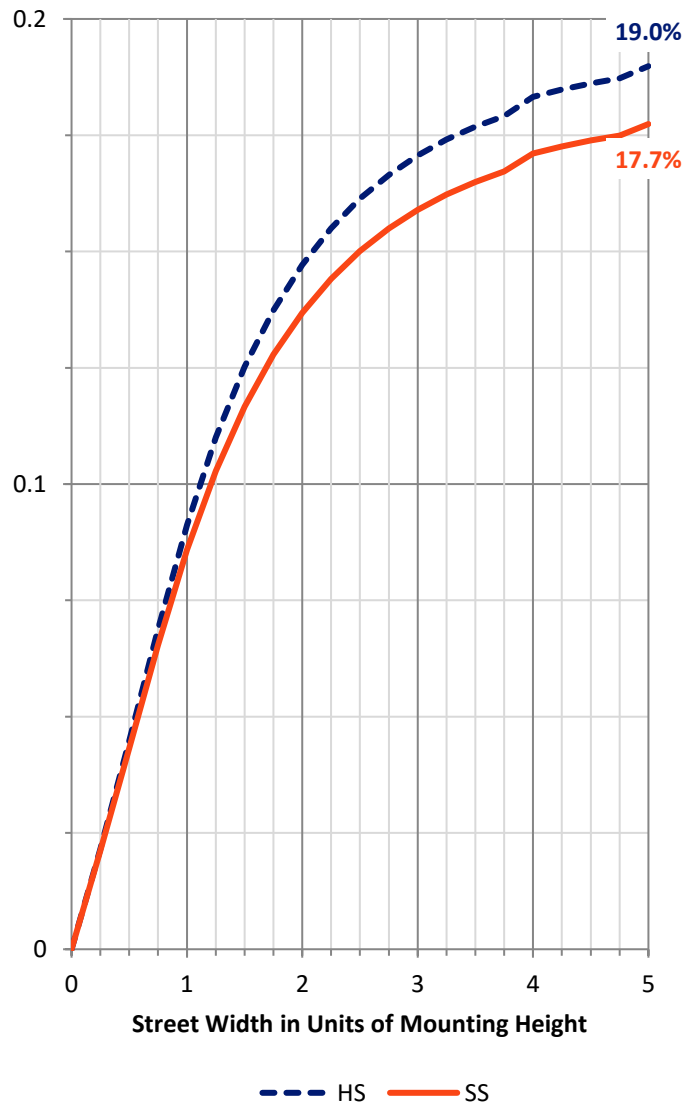
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	352.7	23.9	376.6
	% Lamp	19.6	1.3	20.9
<b>Street Side</b>	Lumens	334.1	28.6	362.7
	% Lamp	18.6	1.6	20.1
<b>Total</b>	Lumens	686.8	52.5	739.3
	% Lamp	38.2	2.9	41.1

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture	% Lamp
0°-10°	0.2	0.0	0.0
10°-20°	9.4	1.3	0.5
20°-30°	19.2	2.6	1.1
30°-40°	52.9	7.2	2.9
40°-50°	98.4	13.3	5.5
50°-60°	135.8	18.4	7.5
60°-70°	165.9	22.4	9.2
70°-80°	147.6	20.0	8.2
80°-90°	57.4	7.8	3.2
90°-100°	24.0	3.2	1.3
100°-110°	11.6	1.6	0.6
110°-120°	8.8	1.2	0.5
120°-130°	7.3	1.0	0.4
130°-140°	0.8	0.1	0.0
140°-150°	0.0	0.0	0.0
150°-160°	0.0	0.0	0.0
160°-170°	0.0	0.0	0.0
170°-180°	0.0	0.0	0.0
0°-90°	686.8	92.9	38.2
0°-180°	739.3	100.0	41.1

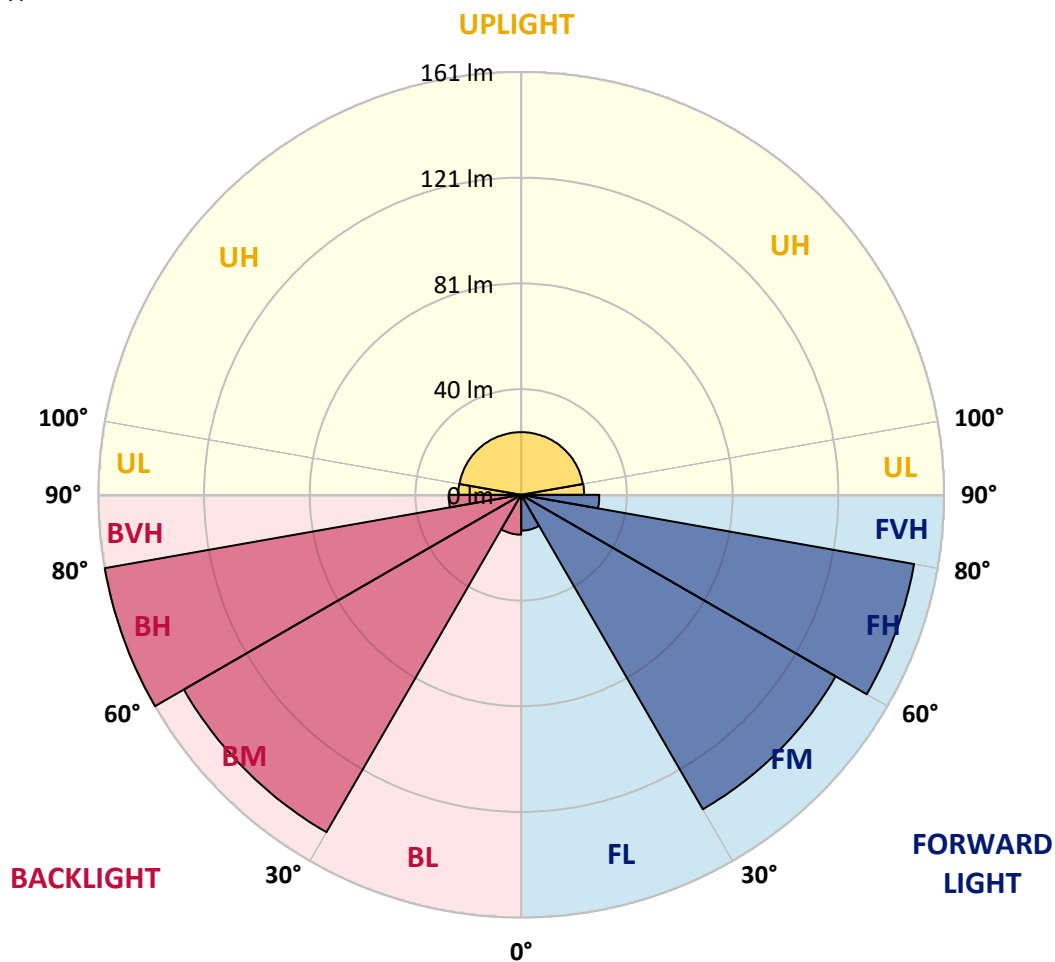


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**LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:**

Zone	Lumens	% Lamp	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	13.7	0.8			
FM (30°-60°)	138.5	7.7			
FH (60°-80°)	152.2	8.5			G0/660
FVH (80°-90°)	29.8	1.7			G1/100
BL (0°-30°)	15.2	0.8	B0/110		
BM (30°-60°)	148.6	8.3	B0/220		
BH (60°-80°)	161.3	9.0	B1/500		G0/660
BVH (80°-90°)	27.6	1.5			G1/100
UL (90°-100°)	24.0	1.3		U2/50	
UH (100°-180°)	23.9	1.3		U2/50	
Trapped Light	1060.7	58.9			

**BUG Rating: B1-U2-G1**  
 Type V Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
0°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2.5°	0.0	0.0	0.0	0.0	0.0	0.1	0.0	0.1	0.1	0.1	0.1
5°	0.3	0.3	0.3	0.3	0.3	0.3	0.4	0.4	0.3	0.4	0.4
7.5°	1.1	1.1	1.1	1.1	1.0	1.0	1.0	1.2	1.3	1.5	1.5
10°	7.0	7.0	6.6	6.1	5.5	5.1	5.0	5.2	5.8	6.4	6.8
12.5°	21.0	20.9	20.2	19.3	17.9	16.0	14.7	15.7	17.5	19.0	19.6
15°	35.7	35.5	36.0	35.7	33.9	31.8	30.8	31.4	33.8	34.0	33.7
17.5°	37.9	38.1	41.7	44.3	43.9	40.8	42.8	41.6	42.4	42.0	41.9
20°	37.4	37.9	40.1	41.5	43.3	45.1	45.4	44.1	41.2	44.0	44.9
22.5°	35.2	35.1	33.4	32.4	35.7	38.8	38.3	38.1	38.3	41.7	41.8
25°	30.7	31.0	30.9	31.4	32.2	30.8	31.7	33.7	37.4	37.0	35.9
27.5°	35.9	36.5	41.1	40.3	40.9	33.6	36.6	38.9	43.9	41.5	39.6
30°	51.5	50.9	51.4	56.3	53.5	48.1	46.4	54.7	54.5	55.7	56.9
32.5°	66.4	65.6	65.6	71.1	64.0	65.5	61.9	67.4	67.4	70.6	74.6
35°	77.2	80.2	81.8	83.1	81.1	80.4	81.3	80.2	81.8	84.4	85.8
37.5°	89.8	94.9	95.8	98.2	96.6	98.2	96.2	95.8	97.2	98.0	97.7
40°	99.6	105.1	105.8	109.1	107.2	110.1	108.6	110.3	110.9	109.7	108.8
42.5°	107.1	113.7	113.7	118.8	114.8	118.5	118.2	120.0	121.3	121.6	120.2
45°	108.1	116.3	119.0	123.2	120.9	123.2	125.0	126.3	130.6	130.3	127.6
47.5°	110.6	119.1	121.0	125.9	122.6	127.6	129.5	132.9	135.8	134.9	132.0
50°	111.7	121.7	123.5	129.2	128.6	131.2	132.9	136.3	143.5	140.1	134.4
52.5°	115.9	127.7	133.0	135.4	139.9	135.5	140.6	140.3	153.8	148.1	138.3
55°	125.0	136.1	141.1	143.9	147.4	143.5	148.3	147.8	160.7	154.6	143.4
57.5°	133.7	142.9	144.5	151.7	150.9	151.1	150.7	155.9	165.2	158.4	149.9
60°	139.7	146.9	146.3	158.2	151.3	156.9	151.9	162.3	167.9	160.7	155.7
62.5°	144.7	149.6	146.7	163.4	150.2	162.5	152.5	167.8	168.9	163.4	161.0
65°	151.3	154.0	147.2	169.0	149.9	167.4	152.1	172.6	170.3	166.5	166.7
67.5°	161.3	160.7	149.4	175.7	149.1	173.3	151.7	178.4	170.1	169.4	172.7
70°	168.8	164.9	149.4	177.6	145.7	176.5	148.4	180.9	165.4	166.5	174.4
72.5°	167.3	161.4	144.9	170.0	138.8	169.9	142.4	175.2	157.3	159.4	169.4
75°	153.3	146.7	133.1	154.6	127.5	156.3	132.4	160.6	142.7	145.1	156.3
77.5°	122.9	117.8	109.2	125.8	105.9	128.6	111.1	130.7	116.1	119.6	129.5
80°	89.9	87.2	81.4	92.4	79.9	95.5	84.5	95.5	86.3	88.6	96.3
82.5°	62.8	62.8	60.3	66.0	60.4	68.6	63.3	67.0	62.7	64.0	68.2
85°	46.0	48.0	47.4	50.3	50.6	51.1	48.8	48.9	48.6	48.5	48.7
87.5°	41.4	43.5	43.0	44.9	45.1	44.2	42.9	42.0	41.0	40.0	39.5
90°	37.0	39.4	38.9	40.1	39.3	38.5	37.2	35.8	34.3	33.5	33.0
92.5°	33.2	35.3	34.8	35.1	34.0	33.1	31.9	30.4	28.9	27.5	26.8
95°	27.8	29.4	29.1	28.9	27.9	27.0	25.8	24.5	22.8	21.6	21.2
97.5°	22.4	23.4	23.1	22.7	21.7	20.7	20.0	19.0	17.8	16.9	16.6
100°	16.4	17.2	17.2	17.2	16.3	15.6	15.4	15.1	14.5	13.9	13.7
102.5°	11.7	12.1	12.1	12.2	12.1	11.9	12.4	12.6	12.4	11.9	11.8
105°	8.6	8.7	9.0	9.5	9.7	9.9	10.4	10.7	10.7	10.5	10.4
107.5°	7.7	7.7	8.3	8.9	9.1	9.2	9.5	9.8	10.2	10.5	10.5
110°	7.7	7.6	8.1	8.6	8.9	9.0	8.9	9.1	9.7	10.0	9.9



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**CANDELA DISTRIBUTION (continued):**

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°	90°
112.5°	8.0	7.9	8.1	8.7	9.2	9.2	8.8	8.8	9.4	9.6	9.4
115°	8.0	7.8	7.9	8.5	9.0	9.1	8.7	8.6	9.2	9.4	9.2
117.5°	7.7	7.6	7.5	8.1	8.8	9.0	8.6	8.5	9.1	9.2	9.0
120°	7.6	7.4	7.2	7.9	8.6	8.9	8.6	8.4	9.0	9.2	8.9
122.5°	7.4	7.3	7.1	7.7	8.5	8.8	8.6	8.4	8.8	9.0	8.8
125°	7.6	7.4	7.1	7.7	8.5	8.8	8.6	8.4	8.6	8.7	8.5
127.5°	7.7	7.6	7.2	7.7	8.3	8.6	8.4	8.1	8.2	8.3	8.1
130°	7.6	7.6	7.2	7.5	8.1	8.2	8.1	7.8	7.8	7.7	7.7
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	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):**

	95°	105°	112.5°	115°	125°	135°	145°	155°	165°	175°	180°
0°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
2.5°	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.2	0.1
5°	0.4	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
7.5°	1.6	1.6	1.6	1.6	1.6	1.5	1.4	1.4	1.3	1.3	1.2
10°	7.1	8.2	7.8	7.7	7.6	7.6	7.7	7.5	7.3	7.4	7.5
12.5°	20.3	21.5	22.3	22.2	22.6	22.5	23.1	23.5	23.5	23.6	23.7
15°	33.7	35.0	36.8	37.1	38.2	39.0	39.4	39.8	40.7	41.6	41.8
17.5°	42.2	42.9	43.9	43.8	44.8	46.2	47.3	46.5	45.0	44.6	44.7
20°	46.0	46.0	44.7	44.3	44.7	45.9	48.8	46.8	44.9	43.3	43.0
22.5°	41.3	41.3	41.4	41.3	41.8	41.0	41.5	44.1	43.8	41.4	41.2
25°	34.5	34.8	37.5	38.1	39.5	36.5	36.8	39.4	42.5	40.8	40.4
27.5°	40.8	43.2	43.1	44.1	45.0	39.1	44.9	39.9	43.6	47.2	45.5
30°	56.8	57.3	58.1	56.7	53.2	55.3	57.8	54.7	53.8	57.4	59.6
32.5°	73.0	72.4	71.6	69.8	64.7	71.9	71.4	72.4	65.4	69.5	68.4
35°	87.4	87.2	84.3	82.6	84.4	85.1	88.1	85.6	83.1	80.6	74.9
37.5°	99.2	100.1	102.1	100.6	100.9	102.8	101.4	101.8	98.6	96.6	89.0
40°	110.9	114.3	116.2	114.5	115.9	116.3	112.7	113.9	111.9	111.2	101.6
42.5°	122.1	124.7	127.9	126.2	126.0	127.4	122.6	125.6	122.6	122.1	111.4
45°	130.4	133.5	134.7	132.6	134.2	134.4	133.1	135.3	133.4	131.6	118.7
47.5°	135.0	140.2	142.3	139.6	140.0	142.2	139.1	141.8	139.4	138.8	125.4
50°	137.1	143.5	149.1	147.7	149.8	147.3	142.8	145.5	146.0	144.3	129.6
52.5°	141.6	151.2	156.0	155.4	162.6	150.1	149.1	151.9	154.3	150.7	133.2
55°	147.6	160.5	165.5	164.6	168.0	154.1	154.7	160.1	158.9	155.9	138.5
57.5°	153.3	165.7	175.0	173.4	170.7	159.6	157.5	167.3	162.1	160.9	146.4
60°	157.4	168.0	182.4	180.0	172.6	165.2	159.6	173.1	165.1	165.3	153.6
62.5°	161.0	169.9	188.9	186.1	174.7	172.0	162.0	177.9	168.2	169.4	160.2
65°	164.5	170.2	193.3	190.9	175.2	178.0	162.3	182.4	171.2	173.4	165.9
67.5°	167.6	169.8	196.6	194.1	172.3	183.3	161.6	186.4	172.0	176.3	172.7
70°	168.6	167.3	195.8	192.1	163.9	184.0	157.5	185.0	167.4	174.8	175.0
72.5°	163.7	160.5	186.3	182.2	151.6	176.9	149.1	176.2	157.3	165.1	167.3
75°	151.6	147.2	167.9	163.9	134.6	160.7	135.3	159.2	142.1	149.0	152.1
77.5°	126.9	122.5	136.0	132.1	109.6	129.2	110.6	129.1	116.1	121.8	123.9
80°	94.5	91.5	100.0	97.8	83.6	95.0	83.4	94.3	85.6	87.9	88.3
82.5°	67.7	65.7	69.7	68.2	61.1	65.9	60.5	64.6	59.1	59.7	59.1
85°	48.6	47.5	48.4	47.8	45.8	45.6	43.6	43.6	41.5	41.1	39.8
87.5°	39.3	38.5	38.0	37.3	36.2	35.1	34.0	33.3	31.6	30.4	29.8
90°	32.6	31.1	30.4	29.7	28.5	27.4	26.1	25.4	24.0	22.9	22.8
92.5°	26.3	25.1	24.3	23.8	22.7	21.3	20.2	19.0	17.7	16.4	16.4
95°	20.8	19.9	19.2	18.7	17.5	16.4	15.4	14.1	12.7	12.1	12.1
97.5°	16.4	15.7	15.0	14.5	13.5	12.9	12.2	11.1	10.0	9.8	9.8
100°	13.5	12.8	12.1	11.8	11.3	11.3	10.9	10.2	9.7	10.0	10.0
102.5°	11.5	11.0	10.6	10.4	10.7	11.2	10.9	10.6	10.4	10.7	10.6
105°	10.4	10.5	10.5	10.4	11.3	11.8	11.5	11.3	11.2	11.2	11.1
107.5°	10.5	10.5	10.5	10.6	11.6	11.9	11.6	11.6	11.5	11.2	11.0
110°	9.8	9.7	10.0	10.1	11.1	11.1	10.7	10.9	10.7	10.2	9.9



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**CANDELA DISTRIBUTION (continued):**

	95°	105°	112.5°	115°	125°	135°	145°	155°	165°	175°	180°
112.5°	9.2	9.0	9.3	9.4	10.1	9.7	9.4	9.6	9.3	8.5	8.1
115°	9.0	8.8	9.1	9.1	9.6	9.1	8.9	9.1	8.7	7.8	7.4
117.5°	8.8	8.7	8.9	9.0	9.3	8.7	8.6	8.9	8.5	7.6	7.2
120°	8.8	8.7	9.0	9.0	9.1	8.6	8.5	8.9	8.4	7.6	7.2
122.5°	8.7	8.8	8.9	8.9	8.8	8.4	8.4	8.7	8.2	7.5	7.1
125°	8.4	8.7	8.8	8.6	8.5	8.1	8.1	8.3	7.8	7.1	6.8
127.5°	8.1	8.3	8.3	8.2	7.9	7.5	7.5	7.5	7.1	6.5	6.3
130°	7.6	7.7	7.7	7.6	7.1	6.9	6.9	6.8	6.5	6.0	5.9
132.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
135°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
137.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
140°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
142.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
145°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
147.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
150°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
152.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
155°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
157.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
160°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
162.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
165°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
167.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
170°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
172.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
175°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
177.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
180°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)