

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: INVUE

Report Number: P173594

Luminaire Tested: **ENT-FXX-LED-E1-BL3-7030-BBB**

Issue Date: 03/03/2020

**Test Information**

Test Method: LM-79-08  
Report Number: P173594  
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33645)  
Test Lab: INNOVATION CENTER-P3  
Issue Date: 03/03/2020  
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)  
Product Line: INVUE  
Catalog Number: ENT-FXX-LED-E1-BL3-7030-BBB  
Description: ENTRI LED LUMINAIRE, EMERGENCY MODE  
LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL  
Light Source: (14) 3000K CCT, 70 CRI LEDs  
Ballast/Driver: -

**Summary**

Lumens per Lamp: N/A  
Luminaire Lumens: 1319.4 lumens  
Efficiency: N/A  
Efficacy: 239.9 lumens/watt  
Luminous Opening: Rectangular (W 1' x L: 0.33' x H: 0')  
IES Classification: Type III - Short - Semi-Cutoff  
BUG Rating: B0 - U0 - G1

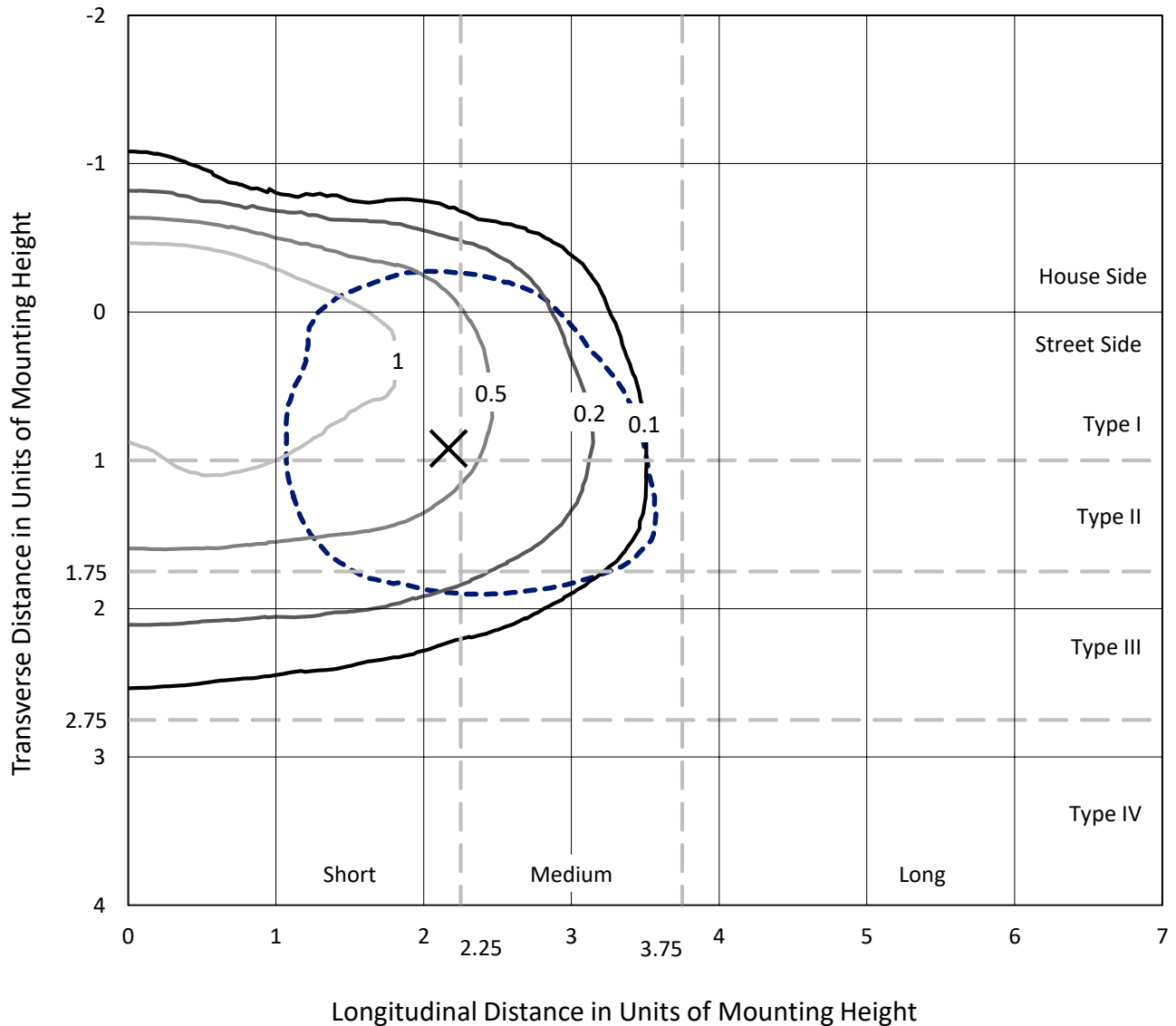
Input Watts (W): 5.5  
Input Voltage (V): NR  
Input Current (Ain): NR  
Voltage Rise (V): NR  
Power Factor: NR  
Total Harmonic Distortion (THDi): NR  
Frequency (hertz): 60  
Stabilization Time: NR  
Operation Time: NR  
Ambient Temperature (°C): NR  
Test Distance: 25 FT



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### Iso-Footcandle Lines of Horizontal Illumination

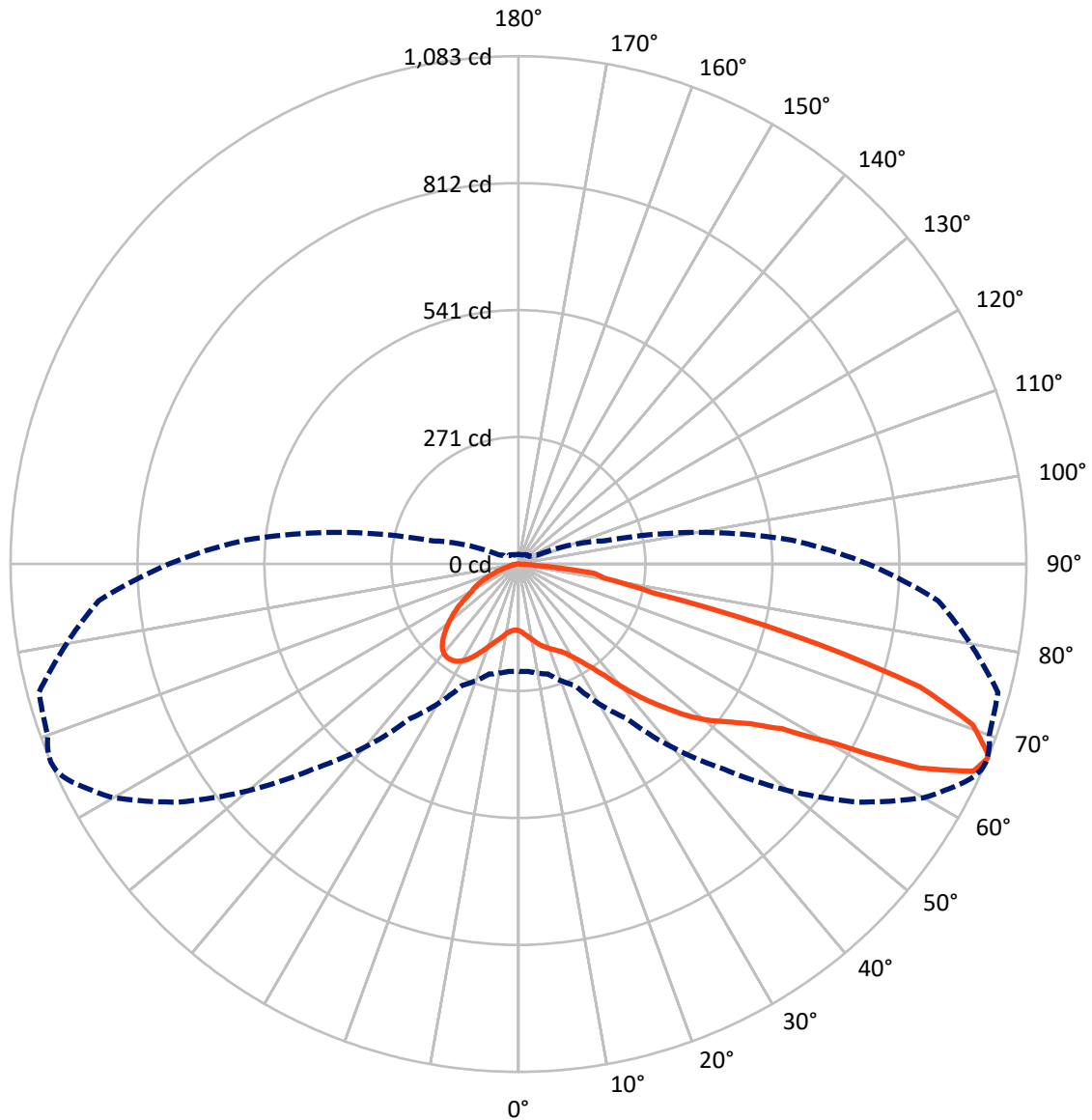
× Max cd  
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 1.8 fc  
 Type III - Short - Semi-Cutoff

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### Luminous Intensity Polar Plot



— Vertical Plane Through 67-Deg Lateral    - - - Horizontal Cone Through 67-Deg Vertical

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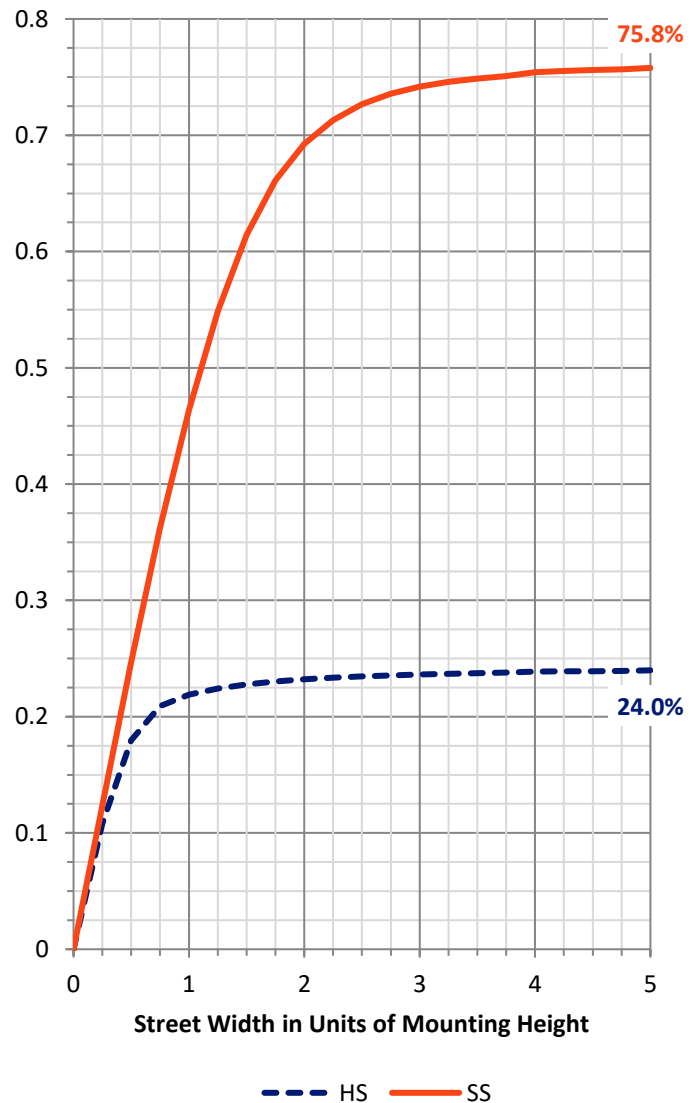
**FLUX DISTRIBUTION:**

		Downward	Upward	Total
<b>House Side</b>	Lumens	320.4	0.0	320.4
	% Fixture	24.3	0.0	24.3
<b>Street Side</b>	Lumens	999.0	0.0	999.0
	% Fixture	75.7	0.0	75.7
<b>Total</b>	Lumens	1319.4	0.0	1319.4
	% Fixture	100.0	0.0	100.0

**Coefficient of Utilization**

**ZONAL LUMENS:**

Zone	Lumens	% Fixture
0°-10°	14.3	1.1
10°-20°	49.5	3.8
20°-30°	89.8	6.8
30°-40°	131.3	9.9
40°-50°	198.8	15.1
50°-60°	285.2	21.6
60°-70°	364.4	27.6
70°-80°	170.1	12.9
80°-90°	15.9	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°	1319.4	100.0
0°-180°	1319.4	100.0



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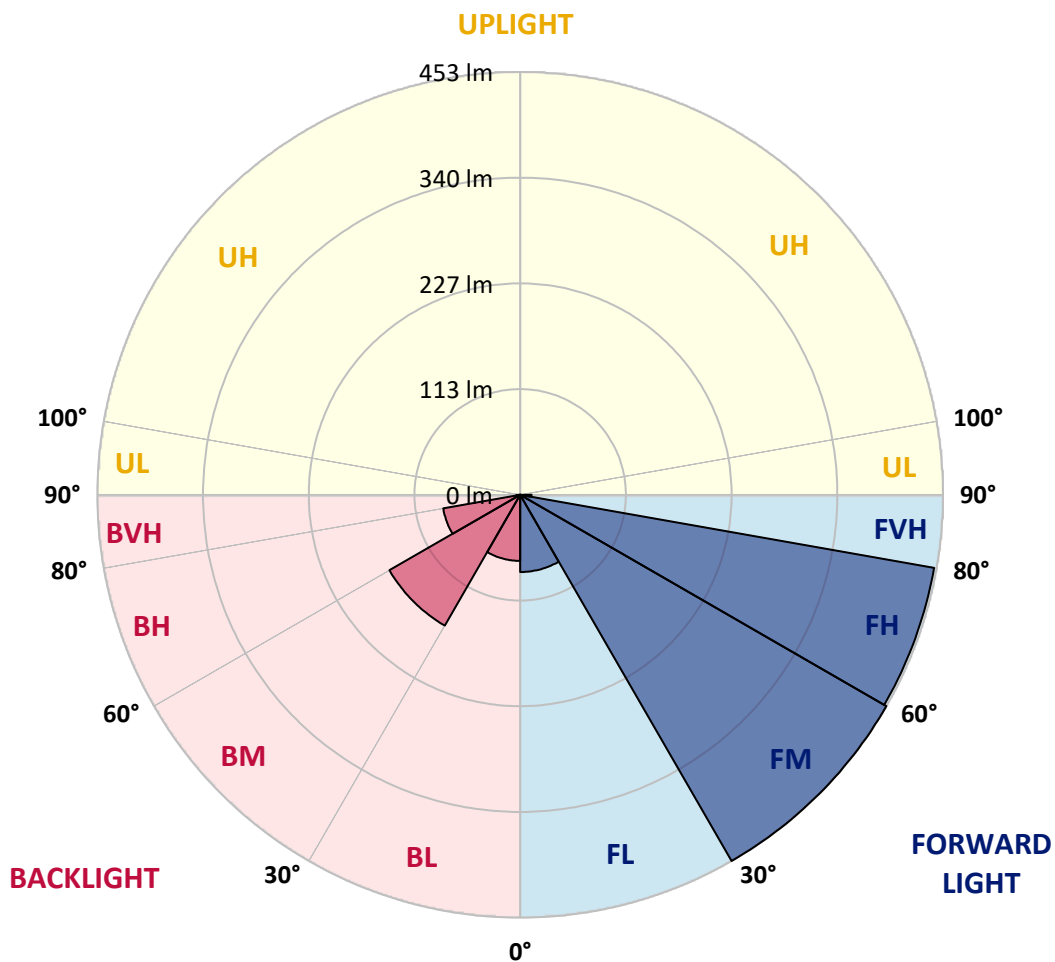
CATALOG NUMBER: ENT-FXX-LED-E1-BL3-7030-BBB

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

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	82.8	6.3			
FM	(30°-60°)	453.4	34.4			
FH	(60°-80°)	450.7	34.2			G0/660
FVH	(80°-90°)	12.1	0.9			G1/100
BL	(0°-30°)	70.9	5.4	B0/110		
BM	(30°-60°)	161.8	12.3	B0/220		
BH	(60°-80°)	83.8	6.4	B0/110		G0/110
BVH	(80°-90°)	3.8	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-G1**

Type III Short





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**CANDELA DISTRIBUTION (FULL):**

	0°	5°	15°	25°	35°	45°	55°	60°	61°	62°	64°
0°	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1
2.5°	147.7	147.7	147.9	147.9	147.7	147.7	146.2	146.2	146.2	146.0	146.0
5°	155.7	156.0	156.0	155.7	155.2	154.3	152.3	152.3	152.3	152.1	151.6
7.5°	165.0	164.8	165.0	164.3	163.3	162.1	159.4	159.2	158.7	158.7	158.2
10°	175.3	174.5	175.3	174.3	172.3	170.1	167.0	166.0	166.0	166.0	165.0
12.5°	185.8	185.5	186.0	184.3	180.9	178.5	175.3	174.1	173.8	173.8	173.3
15°	197.2	197.0	195.5	192.9	188.5	186.3	182.6	181.1	180.9	180.9	180.1
17.5°	209.2	209.2	205.6	199.9	193.8	190.7	188.0	187.0	186.7	186.7	186.5
20°	219.4	219.4	214.6	205.3	196.5	193.1	192.1	192.1	192.1	192.1	192.3
22.5°	227.0	226.3	219.7	208.2	197.5	194.5	197.0	197.2	197.2	197.7	198.0
25°	230.5	230.2	222.4	208.7	197.2	196.8	202.1	202.9	203.4	203.8	204.6
27.5°	230.7	230.7	222.9	208.5	197.0	200.7	208.5	210.7	211.2	212.1	213.4
30°	228.3	228.5	221.9	208.2	198.7	208.0	218.5	222.6	223.6	225.1	227.0
32.5°	225.3	225.8	221.9	210.7	206.3	220.7	234.6	240.5	241.4	243.4	245.3
35°	225.8	226.5	227.3	220.4	223.1	242.4	262.4	265.8	265.6	268.8	269.8
37.5°	229.0	230.7	236.1	237.3	247.5	274.4	295.4	302.7	302.7	305.6	304.7
40°	229.5	232.1	245.6	259.7	280.0	312.9	341.8	350.3	350.3	351.5	351.0
42.5°	240.9	243.4	262.7	287.8	316.6	355.4	387.2	394.7	396.4	395.2	396.2
45°	261.7	263.4	287.1	318.8	352.0	396.2	431.6	438.9	440.6	439.4	438.0
47.5°	288.1	290.5	315.6	353.2	387.4	433.8	477.0	485.5	487.3	485.3	486.0
50°	310.0	314.7	341.5	386.0	421.6	466.0	512.2	523.9	525.3	525.3	525.8
52.5°	330.0	334.2	360.1	409.6	449.2	495.1	538.3	553.4	555.1	556.4	557.3
55°	338.3	342.5	368.4	419.9	466.0	522.2	568.6	588.8	589.8	593.0	597.1
57.5°	338.6	342.0	367.4	419.6	474.8	546.6	609.8	641.3	645.2	649.3	656.4
60°	315.6	319.8	345.2	407.4	482.1	573.9	672.3	730.1	735.7	747.7	763.3
62.5°	281.0	283.9	305.9	367.1	482.1	611.7	772.9	868.6	887.4	906.9	935.7
65°	248.7	250.9	264.9	317.8	448.0	642.5	878.1	988.2	1008.4	1023.1	1047.5
67°	228.7	229.7	242.9	286.1	402.0	617.9	885.2	996.5	1013.8	1028.9	1059.7
67.5°	221.9	222.6	235.1	278.0	387.9	603.0	874.4	989.6	1008.4	1023.8	1055.1
70°	170.6	168.5	179.2	218.7	313.4	481.1	767.7	900.5	922.0	942.5	980.4
72.5°	101.8	98.6	105.4	126.9	203.1	338.1	582.2	738.9	766.3	791.9	841.5
75°	61.3	61.5	66.6	81.5	110.8	212.6	376.2	480.9	506.5	530.7	569.8
77.5°	30.5	30.3	34.9	47.4	80.8	132.1	218.5	277.3	285.8	297.3	292.7
80°	9.8	9.5	10.3	13.0	29.0	88.6	137.4	174.1	178.0	180.1	182.8
82.5°	1.5	1.7	1.9	3.2	5.4	21.2	85.4	121.1	126.5	132.8	145.0
85°	0.0	0.0	0.3	0.3	0.7	1.7	8.1	20.8	21.7	26.4	31.0
87.5°	0.0	0.0	0.0	0.3	0.5	0.7	1.2	1.2	1.2	1.2	1.2
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):**

	65°	66°	67°	68°	69°	70°	75°	85°	90°	95°	105°
0°	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1
2.5°	145.7	145.7	145.5	145.2	145.2	145.2	144.8	144.5	143.0	142.6	141.6
5°	151.6	151.6	151.1	150.9	150.6	150.6	149.9	148.4	146.5	145.2	143.3
7.5°	157.9	157.7	157.2	157.2	156.2	156.2	155.2	152.6	150.6	148.9	146.5
10°	165.3	165.0	164.3	164.1	163.6	163.1	162.1	158.9	157.0	154.8	151.8
12.5°	173.3	172.8	172.3	172.1	171.6	171.1	170.1	167.2	165.3	163.1	159.6
15°	180.4	180.1	179.7	179.4	179.4	178.9	178.2	175.5	173.6	171.1	168.5
17.5°	186.7	186.5	186.3	186.3	186.0	186.0	185.8	183.3	182.1	180.1	177.5
20°	192.1	192.3	192.3	192.3	192.6	192.9	193.4	192.1	190.9	189.2	187.7
22.5°	198.0	198.2	199.0	199.0	199.4	199.7	201.4	201.2	200.7	199.4	198.2
25°	205.1	205.6	206.0	206.8	207.0	207.7	210.7	211.9	210.9	210.2	211.4
27.5°	214.3	215.3	215.8	216.8	217.3	218.2	222.6	225.3	224.6	224.8	227.5
30°	228.3	229.2	230.7	231.2	232.9	233.4	238.5	242.7	242.7	242.2	247.0
32.5°	246.8	247.5	249.2	250.5	251.4	252.4	257.3	261.7	262.2	263.6	265.6
35°	271.2	271.7	272.7	274.6	274.4	274.9	277.6	282.0	284.4	287.8	282.0
37.5°	303.4	305.1	304.7	304.9	302.9	304.2	305.1	309.8	314.9	318.3	295.6
40°	349.3	350.5	349.3	347.6	346.2	345.4	344.0	349.1	353.5	351.0	306.4
42.5°	394.0	394.5	393.5	390.6	389.4	386.9	383.0	389.4	391.8	380.3	312.0
45°	438.2	437.5	435.8	435.3	432.8	430.4	428.2	432.3	431.3	408.9	314.4
47.5°	484.6	483.8	482.6	480.7	478.0	477.5	475.5	475.1	468.0	433.3	313.2
50°	525.1	525.6	522.9	523.9	522.6	520.2	518.5	519.5	502.6	454.8	310.7
52.5°	560.0	560.0	558.8	560.0	559.5	558.3	559.8	575.6	540.7	485.1	307.1
55°	600.5	602.0	601.0	602.2	603.0	605.7	611.7	648.9	597.6	522.2	298.8
57.5°	659.8	663.5	662.5	667.4	671.8	678.9	701.1	740.2	668.1	562.9	282.5
60°	766.3	778.2	777.7	786.3	795.1	803.1	841.9	849.5	748.0	616.2	270.2
62.5°	943.5	953.3	957.4	966.7	972.3	973.8	1005.0	949.6	819.2	664.5	263.4
65°	1058.2	1062.1	1065.8	1064.6	1061.2	1055.6	1057.5	940.3	795.6	633.5	226.1
67°	1071.9	1080.0	1082.9	1080.9	1075.8	1068.0	1058.5	898.3	745.3	585.1	191.1
67.5°	1068.0	1076.3	1079.0	1077.3	1072.9	1067.0	1055.8	882.5	728.2	569.5	182.1
70°	1005.2	1017.2	1028.2	1031.9	1032.1	1031.2	1019.9	770.4	619.8	478.2	138.2
72.5°	857.1	872.5	895.4	888.1	899.8	892.2	866.6	526.6	424.7	341.8	96.9
75°	578.3	585.1	603.7	582.4	584.4	571.0	471.4	305.9	263.4	222.4	58.3
77.5°	291.0	295.4	292.5	279.8	274.9	263.9	204.1	66.4	66.4	79.1	30.5
80°	184.5	186.3	188.2	191.1	194.8	195.3	141.6	19.5	17.6	18.3	16.6
82.5°	151.4	156.0	162.1	163.3	164.8	166.0	97.6	10.7	8.8	9.8	11.7
85°	35.2	38.1	36.4	32.2	34.4	26.6	13.7	4.4	3.9	4.9	8.1
87.5°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.0	1.7	4.1
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°	125°	135°	145°	155°	165°	175°	180°
0°	142.1	142.1	142.1	142.1	142.1	142.1	142.1	142.1
2.5°	140.6	139.9	138.9	138.7	138.4	137.9	137.7	137.4
5°	141.4	139.9	138.4	137.4	137.0	136.5	136.0	136.0
7.5°	144.3	142.6	140.4	139.4	138.4	137.7	137.2	137.2
10°	149.2	147.2	144.5	143.3	142.1	141.4	140.9	140.4
12.5°	156.5	154.0	150.9	148.9	147.7	147.4	147.0	146.7
15°	165.5	162.8	159.4	157.4	155.5	155.0	154.5	154.3
17.5°	174.5	172.3	169.7	166.3	162.3	159.2	157.7	157.4
20°	184.8	183.8	179.7	172.1	163.6	157.0	154.3	154.3
22.5°	197.7	195.0	185.0	171.6	158.9	149.6	146.0	146.0
25°	211.9	202.9	184.3	166.3	150.6	139.2	134.3	134.3
27.5°	224.3	205.1	179.9	157.2	138.2	125.7	120.1	119.9
30°	234.1	203.8	172.1	144.5	123.5	109.4	103.0	103.0
32.5°	239.5	199.7	161.4	129.6	105.7	89.6	81.8	82.0
35°	240.9	192.6	147.2	109.9	84.2	68.3	61.3	61.3
37.5°	239.5	181.4	129.6	88.1	63.0	51.7	46.4	45.9
40°	234.6	164.5	106.2	64.5	46.9	40.3	38.1	37.6
42.5°	224.8	144.3	79.8	46.1	37.6	34.9	34.4	34.2
45°	209.4	116.9	55.4	36.1	33.7	33.0	33.0	32.7
47.5°	190.2	89.4	39.5	32.0	31.7	31.7	31.7	31.7
50°	168.7	63.2	32.2	30.3	30.0	30.5	30.8	30.8
52.5°	146.5	44.2	29.5	29.0	28.6	29.3	29.5	29.5
55°	122.3	34.7	28.3	27.8	27.1	27.3	27.8	27.8
57.5°	97.4	30.8	27.8	27.1	25.6	25.6	26.1	26.1
60°	77.4	29.5	27.6	25.9	23.9	23.9	24.4	24.7
62.5°	64.7	29.3	27.6	24.7	23.2	22.5	23.0	23.0
65°	53.9	29.3	26.8	24.7	22.0	21.0	21.5	21.5
67°	45.2	28.8	26.4	24.7	21.5	20.3	20.3	20.3
67.5°	42.7	28.6	26.6	24.7	21.2	20.0	19.8	19.8
70°	32.0	25.9	26.6	24.9	20.8	18.3	17.8	17.8
72.5°	24.9	23.7	25.9	25.6	20.3	16.8	15.9	15.6
75°	20.3	21.5	26.1	24.9	19.0	15.4	13.9	13.7
77.5°	17.3	18.3	22.0	20.0	15.9	13.7	12.2	11.9
80°	13.7	15.6	15.6	13.7	11.7	11.0	10.3	10.3
82.5°	11.0	11.9	10.3	9.3	8.8	8.5	8.1	8.1
85°	9.0	9.8	7.6	6.8	6.6	6.3	5.9	5.9
87.5°	7.1	6.1	3.9	3.7	3.7	3.4	3.4	3.7
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)