

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: P89344

Luminaire Tested: **ENT-BXX-LED-E1-BL3-BBB**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P89344
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P21347)
Test Lab: INNOVATION CENTER P2
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ENT-BXX-LED-E1-BL3-BBB
Description: ENTRI LED LUMINAIRE, EMERGENCY MODE
LIGHTBARS WITH AccuLED OPTICS - TYPE 3 W/ SPILL LIGHT CONTROL
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1293.9 lumens
Efficiency: N/A
Efficacy: 235.2 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Full Cutoff
BUG Rating: B0 - U0 - G0

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



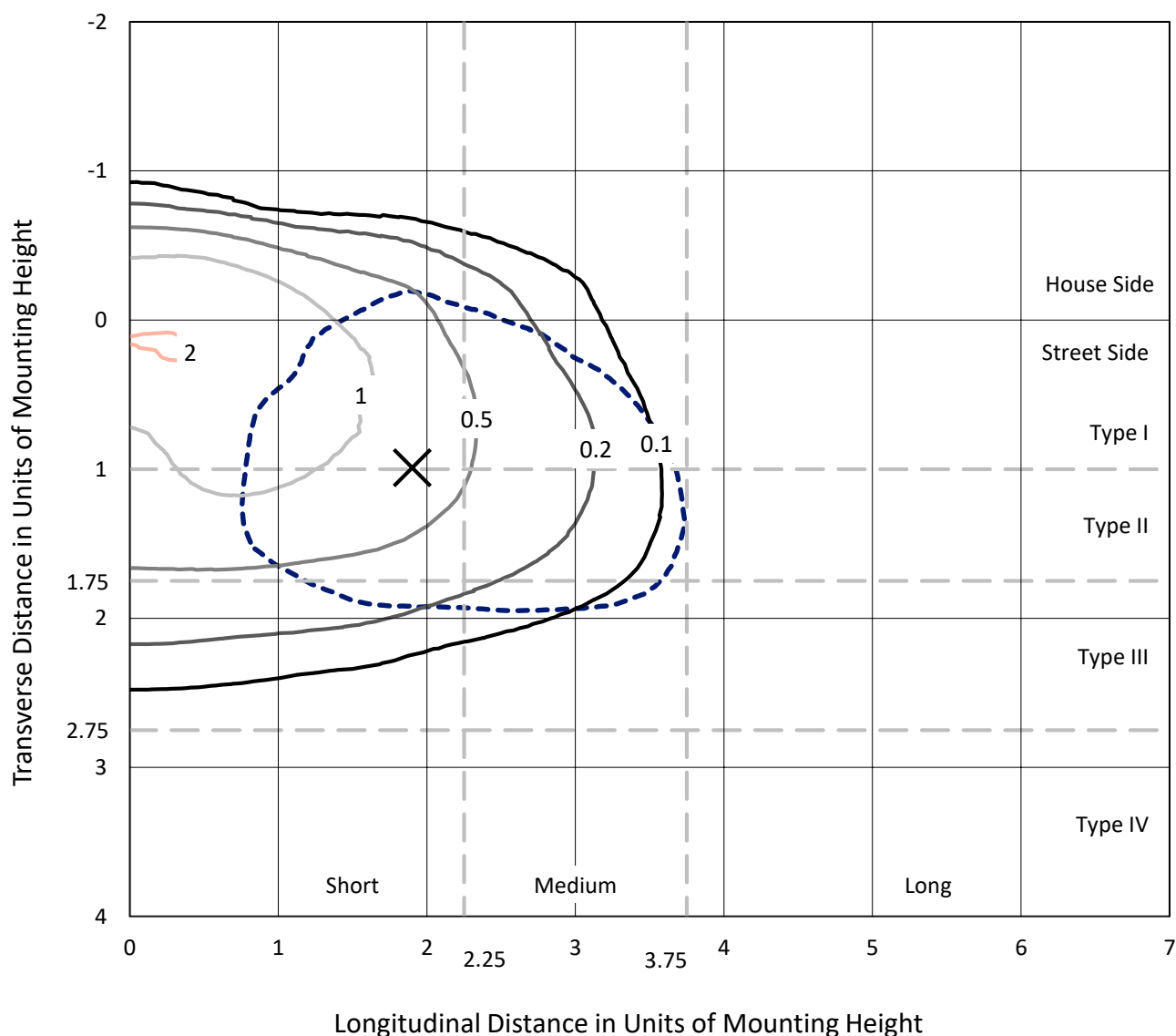
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

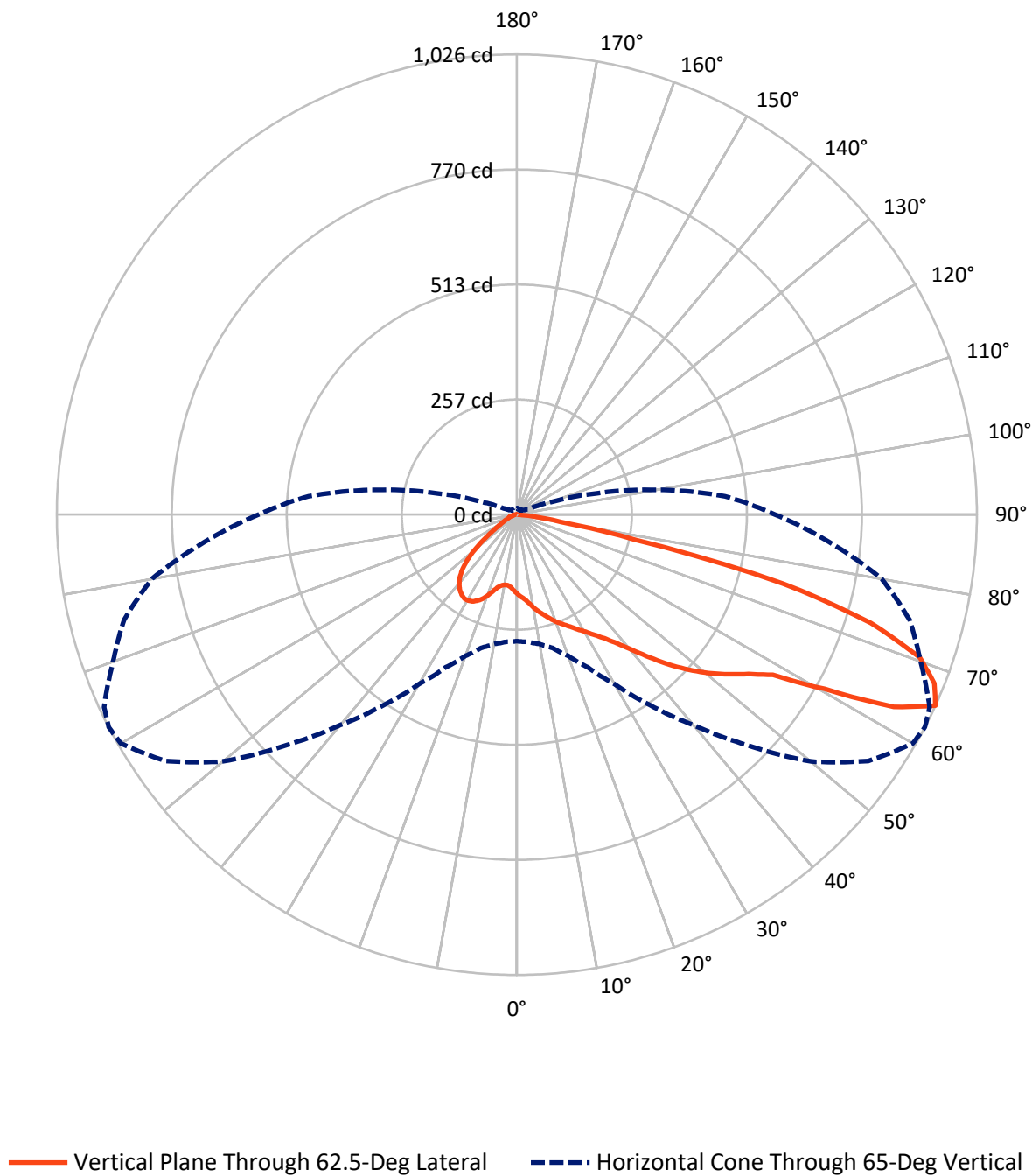


Based on 10 foot mounting height. Maximum calculated value = 2.1 fc
 Type III - Short - Full Cutoff

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Luminous Intensity Polar Plot



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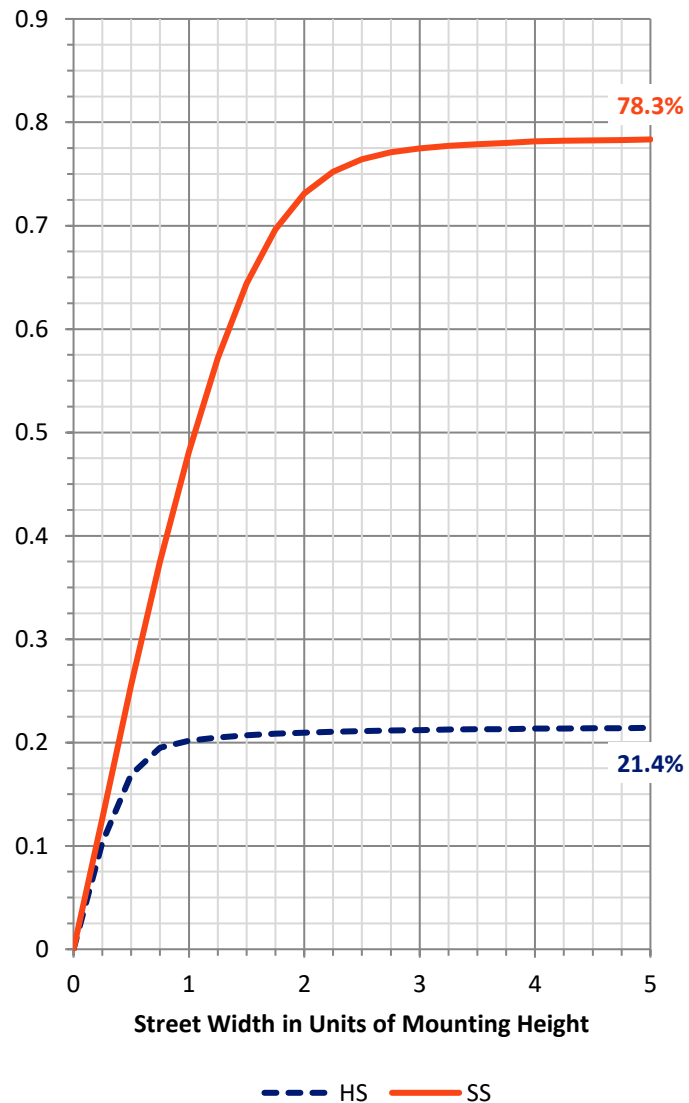
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	280.6	0.0	280.6
	% Fixture	21.7	0.0	21.7
Street Side	Lumens	1013.2	0.0	1013.2
	% Fixture	78.3	0.0	78.3
Total	Lumens	1293.9	0.0	1293.9
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	17.0	1.3
10°-20°	54.2	4.2
20°-30°	95.3	7.4
30°-40°	139.1	10.8
40°-50°	201.2	15.5
50°-60°	284.2	22.0
60°-70°	346.5	26.8
70°-80°	148.2	11.5
80°-90°	8.2	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°	1293.9	100.0
0°-180°	1293.9	100.0

Coefficient of Utilization



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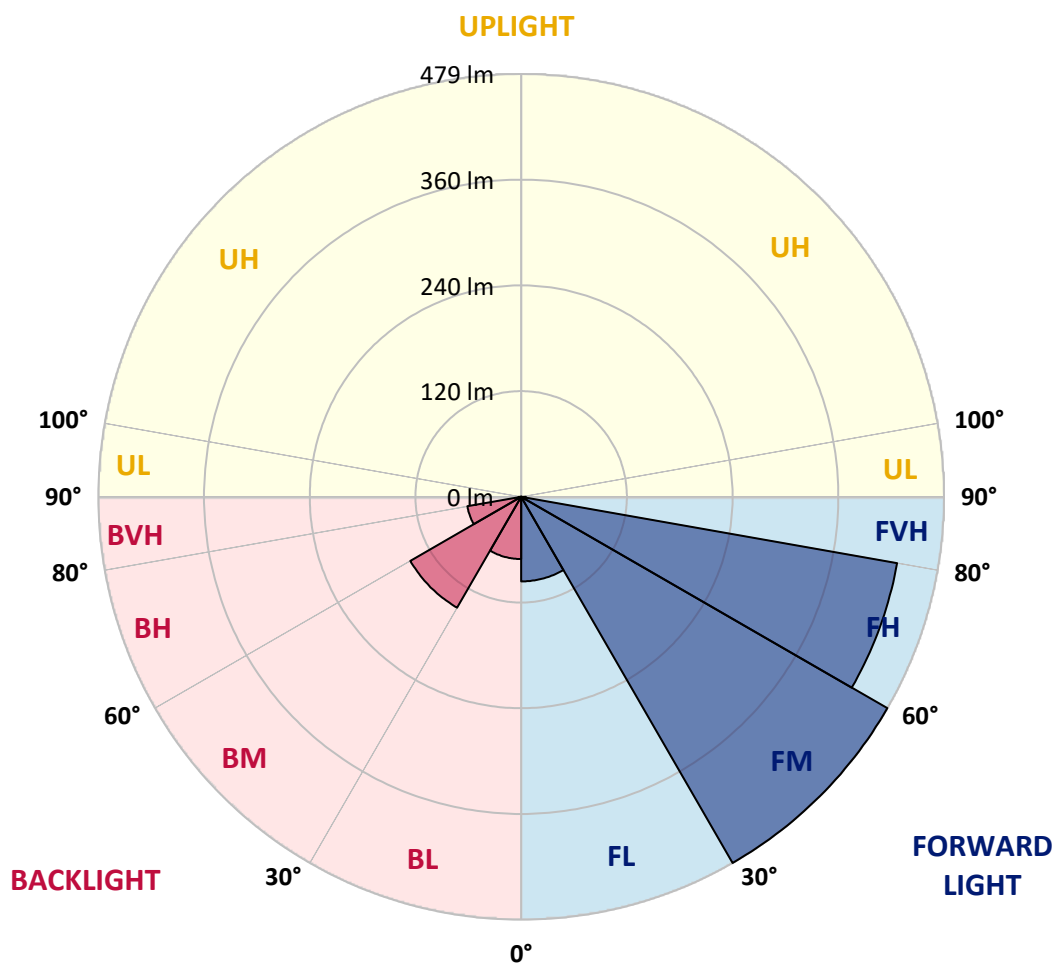
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	95.9	7.4			
FM	(30°-60°)	479.4	37.1			
FH	(60°-80°)	432.8	33.4			G0/660
FVH	(80°-90°)	5.2	0.4			G0/10
BL	(0°-30°)	70.5	5.5	B0/110		
BM	(30°-60°)	145.1	11.2	B0/220		
BH	(60°-80°)	62.0	4.8	B0/110		G0/110
BVH	(80°-90°)	3.0	0.2			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 III Short



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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8
2.5°	189.6	189.1	188.8	188.0	188.0	188.0	187.6	186.8	186.4	186.8	185.6
5°	200.7	200.7	199.9	199.5	199.1	199.1	198.3	197.5	196.3	195.9	194.3
7.5°	209.5	209.9	209.1	208.7	208.3	208.7	208.7	207.5	207.5	207.1	205.9
10°	212.6	213.5	213.0	212.6	213.0	213.8	214.2	215.9	217.1	217.8	217.1
12.5°	212.3	212.6	213.5	213.0	213.8	215.4	217.4	220.6	223.4	225.8	225.8
15°	208.3	208.7	209.5	210.7	213.0	215.9	219.4	223.4	228.2	232.2	233.8
17.5°	204.7	205.5	206.3	207.5	211.1	214.7	219.8	225.0	231.4	237.7	241.7
20°	201.5	201.9	203.1	205.1	209.5	214.2	220.2	226.6	235.0	242.9	249.3
22.5°	198.3	198.3	199.1	201.9	206.7	212.6	220.2	228.2	237.7	247.7	256.9
25°	193.2	192.7	194.3	197.9	203.9	210.7	219.8	230.6	241.7	254.1	265.2
27.5°	186.8	186.8	189.1	194.3	203.1	211.9	221.8	233.8	246.5	262.8	277.6
30°	180.4	181.2	185.2	192.7	203.5	214.7	227.4	240.9	257.3	276.4	293.9
32.5°	179.6	180.8	185.6	195.1	207.5	220.6	236.2	252.9	272.8	294.7	314.6
35°	183.6	185.2	192.0	202.7	216.2	231.8	250.1	269.6	293.5	318.6	338.9
37.5°	190.8	193.2	201.9	214.7	230.6	249.3	271.2	295.1	321.8	349.6	371.2
40°	199.9	204.7	215.9	230.2	250.1	273.6	299.5	327.4	356.8	385.9	407.4
42.5°	212.6	218.2	231.0	248.1	273.2	302.7	331.7	363.2	395.4	423.7	442.8
45°	234.1	239.3	251.7	270.4	300.3	333.3	368.0	400.2	433.3	461.6	479.5
47.5°	262.4	268.0	279.6	299.1	331.7	368.8	403.8	435.3	468.7	495.4	514.5
50°	293.9	299.5	311.0	330.1	363.2	402.6	438.1	469.9	501.0	526.5	548.7
52.5°	324.2	329.3	340.5	359.6	392.7	430.9	469.1	501.0	531.2	557.5	582.2
55°	349.6	354.8	366.0	384.7	416.6	455.2	495.8	530.8	561.9	590.6	617.3
57.5°	365.2	370.4	383.1	402.6	434.1	473.5	516.1	557.1	591.8	626.8	655.5
60°	364.4	369.2	380.7	400.2	431.3	475.1	524.5	574.6	619.2	665.4	712.4
62.5°	341.3	344.9	354.8	371.2	400.2	440.1	495.8	564.7	637.6	714.0	796.5
65°	281.9	284.7	292.7	307.4	334.9	375.5	435.7	517.7	611.7	726.0	855.8
67.5°	205.5	208.7	216.6	230.2	256.1	294.7	348.4	430.9	538.4	665.4	796.8
70°	130.6	131.8	137.4	145.8	160.5	184.8	229.0	302.7	395.4	490.6	629.2
72.5°	86.0	85.2	82.8	82.8	85.2	91.6	105.9	133.8	188.8	291.5	440.4
75°	46.6	47.4	47.8	49.0	48.6	49.0	48.6	55.8	74.5	112.7	203.1
77.5°	22.7	22.3	23.1	23.9	24.3	23.9	23.5	26.7	35.8	56.9	89.6
80°	7.6	8.4	8.8	9.6	10.0	9.6	10.4	12.8	17.9	27.9	45.8
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.8	2.0	3.6	8.4	16.7
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.8
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	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):

	55°	60°	62.5°	65°	70°	75°	80°	85°	90°	95°	100°
0°	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8
2.5°	184.4	183.6	183.6	183.2	182.8	180.8	180.0	179.2	177.6	176.4	175.6
5°	192.7	190.3	189.6	188.8	188.0	184.8	182.4	180.0	177.2	174.8	172.4
7.5°	203.9	201.1	199.5	198.3	196.3	192.3	189.1	185.2	181.6	177.6	173.6
10°	215.4	213.0	211.4	210.3	207.1	201.9	197.1	191.5	186.8	182.0	176.4
12.5°	225.4	222.6	222.2	220.2	216.6	211.1	204.7	198.7	192.7	186.8	180.4
15°	234.1	233.0	233.0	231.4	227.0	219.8	212.3	204.7	198.3	192.3	185.6
17.5°	244.1	244.1	244.1	242.9	238.1	229.0	220.6	212.3	204.7	198.7	192.3
20°	254.1	254.9	255.7	254.5	248.1	238.5	229.4	220.6	213.0	208.3	203.5
22.5°	263.6	265.2	265.6	263.6	255.7	245.3	236.2	229.0	222.6	218.2	213.5
25°	274.4	277.2	276.8	273.2	264.4	252.5	245.3	238.5	234.1	230.2	226.6
27.5°	288.3	291.1	289.5	284.7	273.6	263.2	256.9	252.1	247.7	245.3	242.9
30°	305.0	307.0	303.0	298.3	286.3	277.6	272.8	268.0	264.4	263.6	261.2
32.5°	325.7	323.8	319.8	313.4	303.5	294.7	289.9	286.3	283.9	284.3	278.8
35°	349.6	343.7	338.9	333.7	322.6	314.6	309.0	307.0	306.2	304.2	293.9
37.5°	378.3	369.2	364.0	358.8	347.7	338.1	333.7	331.3	330.9	323.8	308.2
40°	411.8	402.2	396.2	389.9	377.9	366.0	362.0	361.2	357.2	343.7	321.0
42.5°	448.8	442.0	434.9	427.3	411.8	399.8	395.4	393.9	383.9	362.8	330.9
45°	487.8	484.3	477.5	467.9	448.0	436.5	434.1	428.5	410.2	379.1	338.9
47.5°	527.7	525.7	516.5	508.5	486.2	473.5	472.3	463.1	433.3	393.4	345.3
50°	564.7	563.9	555.1	544.4	522.1	510.9	509.7	491.4	454.0	404.6	349.6
52.5°	598.5	597.3	591.0	579.4	554.7	546.0	547.2	524.1	475.5	417.8	354.4
55°	632.8	634.0	626.8	616.1	591.4	586.6	594.6	564.3	504.6	436.5	359.2
57.5°	674.6	676.6	673.4	667.0	648.3	655.1	664.2	623.2	548.0	462.8	364.8
60°	752.3	780.5	788.9	795.6	777.7	788.5	787.7	717.2	619.2	512.1	380.3
62.5°	864.5	923.5	943.8	954.9	949.0	938.2	900.8	796.1	673.4	549.6	384.7
65°	957.3	1019.9	1026.2	1015.9	958.5	907.1	826.7	699.3	575.5	466.3	317.0
67.5°	911.9	989.2	1004.7	998.4	949.8	899.6	803.2	656.7	528.8	429.7	270.8
70°	773.8	908.0	953.4	971.7	948.6	897.6	773.8	591.8	465.5	383.1	222.2
72.5°	608.1	763.4	825.9	865.4	886.8	837.9	663.1	465.5	370.4	311.4	165.2
75°	380.3	540.8	614.1	656.7	656.7	549.9	411.4	300.3	272.8	242.1	116.3
77.5°	135.4	232.2	269.2	278.8	246.1	162.5	87.6	48.2	47.8	66.9	47.4
80°	67.7	91.2	100.8	106.7	100.8	65.7	40.2	28.7	25.9	23.9	19.1
82.5°	29.9	43.4	49.0	50.2	47.0	29.9	21.5	18.3	17.9	16.3	14.3
85°	2.4	6.8	10.7	12.3	14.7	10.7	8.4	7.6	7.2	9.2	9.6
87.5°	0.0	0.0	0.4	0.4	0.4	0.0	0.0	0.0	0.0	1.2	2.0
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8	176.8
2.5°	173.6	172.0	170.8	169.3	168.5	167.6	166.4	165.7	164.9	163.7	163.3
5°	169.7	166.9	164.5	160.9	159.3	157.3	155.7	153.3	152.1	150.5	149.7
7.5°	169.3	164.9	161.3	156.5	154.1	151.7	148.5	146.5	144.6	142.6	141.4
10°	171.2	165.7	161.3	155.7	152.5	150.1	147.3	144.9	142.6	141.4	140.2
12.5°	174.4	167.6	163.7	158.5	156.5	153.3	150.9	147.7	146.1	144.9	143.4
15°	178.4	172.8	168.8	164.5	162.5	159.3	156.5	153.3	151.3	149.3	146.1
17.5°	187.2	182.4	179.6	175.2	172.4	168.8	164.5	160.5	156.1	152.1	147.7
20°	198.7	194.7	192.3	187.6	184.0	177.6	170.8	164.9	158.5	152.9	147.3
22.5°	210.3	207.9	205.9	198.3	191.1	182.4	173.2	165.2	156.5	150.1	143.0
25°	224.6	222.2	216.2	205.1	195.1	184.0	172.4	161.3	150.9	143.8	135.8
27.5°	240.1	234.1	224.2	209.9	196.7	182.4	168.5	155.3	143.8	134.6	126.2
30°	255.3	244.5	229.8	210.7	194.3	178.0	162.1	147.7	135.0	123.8	115.5
32.5°	268.0	251.7	232.2	209.5	190.3	170.8	153.3	137.0	123.5	111.1	100.8
35°	277.6	254.5	229.8	204.3	181.6	159.7	140.2	123.1	107.1	92.4	80.5
37.5°	284.3	254.9	225.4	196.3	170.0	145.8	123.5	103.2	85.2	69.7	58.1
40°	289.1	253.3	218.6	185.2	156.1	128.2	101.5	78.1	60.1	47.4	39.8
42.5°	292.3	249.7	209.5	171.6	137.4	104.7	74.5	53.0	39.8	32.7	28.7
45°	293.5	242.9	195.9	153.3	112.3	75.3	49.0	34.6	27.5	24.7	23.5
47.5°	289.9	231.4	178.4	129.4	81.7	48.2	31.0	24.3	21.9	21.1	20.7
50°	284.3	217.8	158.1	99.9	53.0	30.3	22.3	19.9	19.1	19.1	18.7
52.5°	277.6	202.7	134.2	69.7	33.1	21.5	18.7	18.3	17.9	17.5	17.5
55°	269.6	185.2	106.3	45.8	22.7	18.7	17.5	17.1	16.7	16.3	16.3
57.5°	258.8	164.1	78.4	31.5	18.7	17.1	15.9	15.5	15.1	15.1	14.7
60°	249.7	141.0	57.8	24.7	17.5	15.9	14.7	14.3	13.9	13.9	13.9
62.5°	233.8	114.3	44.6	22.7	17.1	15.5	14.3	13.5	12.8	12.8	12.8
65°	182.4	80.5	33.4	20.7	17.5	15.5	13.9	12.8	11.9	12.3	12.3
67.5°	140.6	54.6	24.7	17.9	17.5	15.9	13.9	12.3	11.9	11.9	11.9
70°	103.2	37.4	19.1	16.7	16.7	14.7	12.8	11.9	11.6	11.6	11.6
72.5°	68.9	25.1	16.7	15.9	15.5	13.1	11.6	11.6	11.6	11.1	10.7
75°	40.6	17.9	14.3	14.7	13.5	11.9	11.1	11.1	11.1	10.7	10.0
77.5°	19.5	11.9	11.1	11.6	11.1	10.7	10.4	10.0	9.6	9.6	9.2
80°	12.3	9.2	7.6	8.4	9.2	10.0	9.6	8.8	8.0	8.4	8.0
82.5°	10.4	7.2	6.4	7.6	7.6	7.2	6.8	6.8	6.4	6.8	6.4
85°	7.6	6.4	5.2	6.4	6.0	5.6	4.8	4.8	4.8	5.2	4.8
87.5°	3.6	4.0	3.6	4.4	4.0	3.2	2.4	2.4	2.8	2.4	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):

	160°	165°	170°	175°	180°
0°	176.8	176.8	176.8	176.8	176.8
2.5°	163.3	162.9	162.9	162.5	162.5
5°	148.9	148.2	147.7	147.7	147.3
7.5°	141.4	139.8	139.4	139.4	138.6
10°	139.4	138.6	138.6	137.8	137.8
12.5°	142.2	141.4	141.0	140.2	140.2
15°	144.6	143.0	142.6	141.4	141.8
17.5°	144.9	141.8	140.6	139.4	139.4
20°	143.0	139.0	136.6	135.8	135.4
22.5°	137.4	132.2	129.4	128.6	127.4
25°	129.8	124.6	121.1	119.5	118.7
27.5°	119.9	115.1	111.5	109.5	109.1
30°	108.3	103.2	99.2	97.2	96.4
32.5°	92.0	85.2	80.8	78.4	77.6
35°	71.3	64.9	60.1	57.8	56.9
37.5°	50.6	45.8	43.0	41.0	40.6
40°	35.5	32.2	30.7	29.5	29.5
42.5°	26.7	25.5	24.7	24.3	24.3
45°	22.7	22.3	22.7	21.9	21.5
47.5°	20.7	21.1	21.1	20.3	20.3
50°	19.1	19.1	19.9	19.1	18.7
52.5°	17.5	17.9	18.3	17.9	17.9
55°	16.3	16.7	17.1	17.1	17.1
57.5°	15.1	15.1	15.9	15.9	16.3
60°	13.9	14.3	14.7	15.1	15.5
62.5°	13.5	13.5	14.3	14.3	14.7
65°	12.8	12.8	13.5	13.9	13.5
67.5°	12.3	12.3	12.8	13.1	13.5
70°	11.6	11.6	11.9	12.3	12.8
72.5°	10.7	10.4	10.7	11.1	11.1
75°	10.0	9.6	10.0	10.4	10.4
77.5°	8.8	8.4	8.8	8.8	8.8
80°	7.6	7.6	7.6	8.0	8.4
82.5°	6.4	6.4	6.4	6.4	6.4
85°	5.2	4.8	4.8	4.8	4.8
87.5°	2.4	2.4	2.8	2.4	2.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)