

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: P181424

Luminaire Tested: **ICM-F01-LED-E1-T3**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181424
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33672)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-F01-LED-E1-T3
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 3
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2368.3 lumens
Efficiency: N/A
Efficacy: 91.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type III - Short - Semi-Cutoff
BUG Rating: B1 - U0 - G1

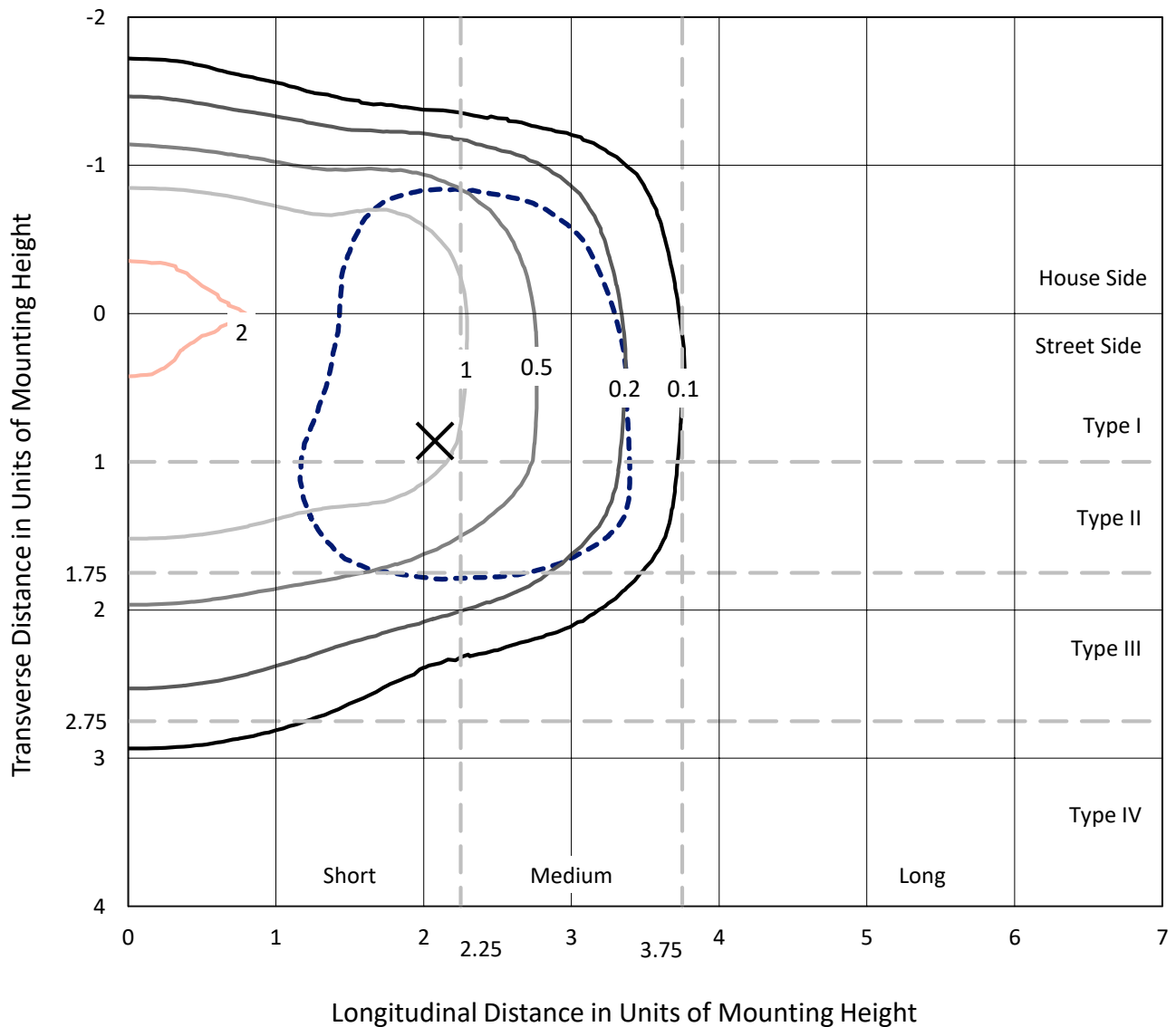
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

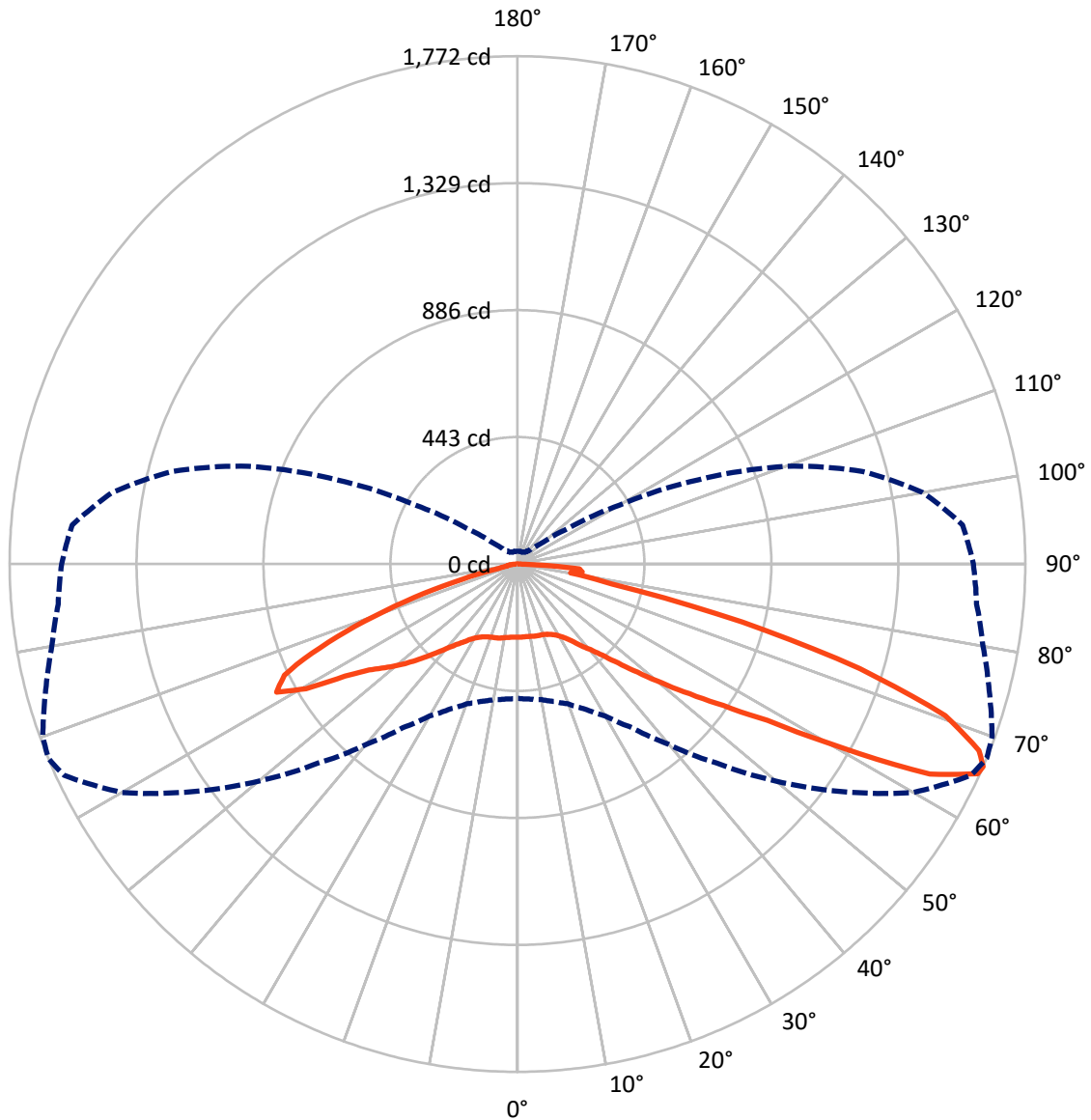
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.6 fc
 Type III - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 67.5-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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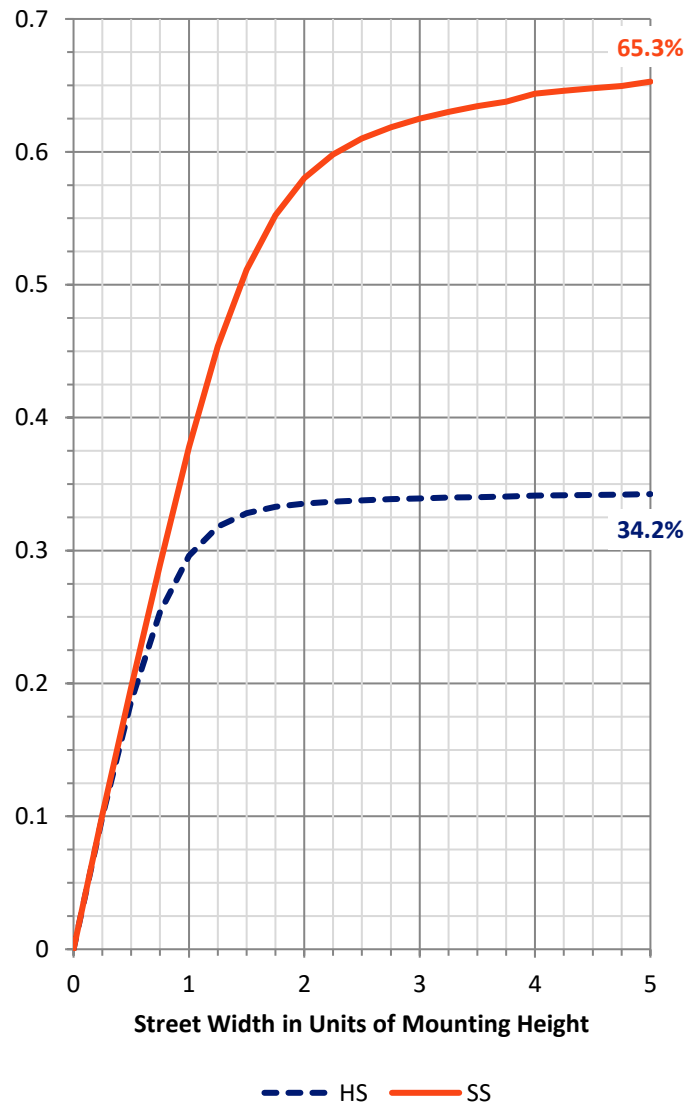
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	817.8	0.0	817.8
	% Fixture	34.5	0.0	34.5
Street Side	Lumens	1550.4	0.0	1550.4
	% Fixture	65.5	0.0	65.5
Total	Lumens	2368.3	0.0	2368.3
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	24.4	1.0
10°-20°	72.1	3.0
20°-30°	124.0	5.2
30°-40°	201.3	8.5
40°-50°	336.1	14.2
50°-60°	529.2	22.3
60°-70°	721.7	30.5
70°-80°	312.4	13.2
80°-90°	47.0	2.0
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°	2368.3	100.0
0°-180°	2368.3	100.0

Coefficient of Utilization



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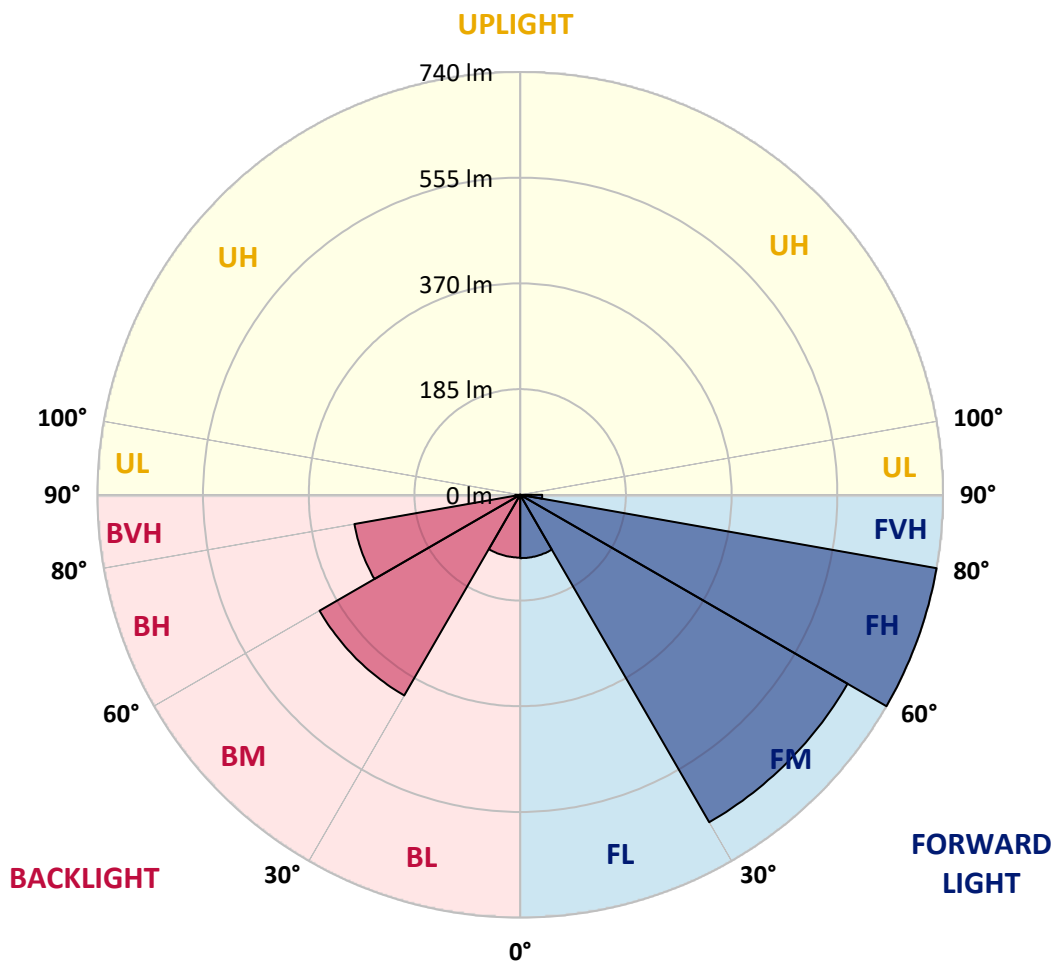
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	110.8	4.7			
FM	(30°-60°)	661.4	27.9			
FH	(60°-80°)	739.7	31.2			G1/1800
FVH	(80°-90°)	38.6	1.6			G1/100
BL	(0°-30°)	109.8	4.6	B0/110		
BM	(30°-60°)	405.3	17.1	B1/1000		
BH	(60°-80°)	294.4	12.4	B1/500		G1/500
BVH	(80°-90°)	8.4	0.4			G0/10
UL	(90°-100°)	0.0	0.0		U0/0	
UH	(100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2
2.5°	256.3	257.3	256.3	256.5	256.7	256.5	256.3	256.3	255.4	256.0	256.5
5°	255.2	256.0	255.7	256.0	256.3	256.0	255.7	256.0	255.4	255.7	256.5
7.5°	254.0	253.7	254.0	254.4	255.0	255.0	255.0	255.2	255.0	255.0	255.7
10°	250.0	250.3	250.9	251.6	251.9	252.7	252.7	253.4	253.7	254.1	255.2
12.5°	245.2	245.5	246.0	246.5	247.8	249.0	249.0	250.9	251.6	252.9	254.7
15°	241.7	241.9	242.4	242.9	243.9	245.2	246.0	248.0	249.3	251.6	254.1
17.5°	243.7	243.4	243.9	244.2	244.2	245.2	245.2	246.8	248.3	250.3	253.7
20°	249.6	249.6	250.0	250.0	249.9	250.3	249.3	249.3	249.6	250.6	252.9
22.5°	255.4	255.2	256.3	256.7	257.0	257.8	256.7	256.5	255.2	254.4	255.2
25°	261.1	260.8	262.1	262.9	264.2	264.9	264.9	264.9	263.9	262.6	261.9
27.5°	269.8	269.8	271.1	271.8	272.8	274.4	275.2	275.2	275.4	273.7	272.4
30°	284.4	284.7	284.9	286.0	287.0	287.4	288.5	289.2	290.0	289.0	287.0
32.5°	301.8	300.3	300.3	301.8	303.1	304.7	305.1	306.1	307.7	306.9	306.7
35°	322.5	322.0	321.5	322.0	323.5	325.3	327.4	329.2	328.2	329.7	328.9
37.5°	353.2	353.8	354.0	354.0	353.8	354.2	355.3	357.1	356.6	357.1	358.1
40°	403.9	402.1	400.4	400.6	398.0	398.5	394.4	396.3	396.5	394.7	395.4
42.5°	454.6	455.6	456.4	458.4	456.7	455.6	451.8	451.8	449.8	448.0	447.4
45°	509.4	511.4	511.7	515.8	514.2	517.6	520.4	519.6	516.3	516.1	512.5
47.5°	553.2	556.5	560.1	564.9	568.7	576.2	584.9	589.3	591.8	593.9	589.8
50°	586.0	587.4	596.7	604.4	612.8	625.1	637.1	652.7	665.3	671.2	676.8
52.5°	603.6	607.4	617.4	629.5	644.3	662.7	682.1	707.0	728.5	742.9	755.6
55°	607.4	611.3	622.5	637.9	658.1	683.0	710.9	744.7	776.9	804.6	831.4
57.5°	596.7	601.0	613.0	630.7	654.5	684.7	719.8	764.1	808.7	853.4	893.1
60°	576.9	582.3	593.4	610.8	637.1	671.2	713.1	768.7	831.2	899.7	975.8
62.5°	544.5	550.1	560.4	579.5	606.7	644.3	692.9	762.1	850.3	958.4	1093.3
65°	492.3	494.8	507.4	526.8	550.9	592.4	645.9	729.3	844.2	994.5	1180.3
66°	468.7	473.0	480.7	496.4	519.4	558.3	612.0	696.7	820.9	982.0	1178.1
67.5°	431.8	435.2	440.3	450.8	464.8	493.5	544.5	624.6	749.8	918.4	1129.1
70°	349.1	350.7	357.6	361.2	366.0	375.5	394.0	440.0	537.6	696.0	911.3
72.5°	238.0	242.4	249.9	260.1	273.4	286.1	294.9	300.7	321.8	415.2	607.2
75°	174.6	179.2	188.7	202.2	225.5	252.1	279.8	292.6	283.9	271.8	338.1
77.5°	101.4	107.5	115.4	128.5	150.0	185.3	232.7	274.7	303.1	304.8	289.5
80°	42.8	43.5	48.4	55.1	68.4	93.2	130.0	190.4	253.4	295.9	305.9
82.5°	9.8	12.0	15.3	18.1	22.2	30.7	45.6	75.8	136.9	214.8	280.0
85°	3.6	3.6	4.8	7.2	8.2	9.2	12.0	19.2	32.7	60.4	126.0
87.5°	0.0	0.3	0.6	0.6	1.0	1.3	2.0	2.8	2.6	2.3	7.7
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):

	55°	60°	65°	67.5°	70°	75°	80°	85°	90°	95°	100°
0°	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2
2.5°	256.0	255.7	255.2	255.2	255.2	255.2	254.7	255.0	254.4	254.7	254.7
5°	255.7	255.7	255.4	255.0	255.2	255.2	255.4	255.0	255.0	255.2	255.0
7.5°	255.7	255.4	255.4	255.4	255.7	255.4	255.7	255.7	255.7	256.0	256.0
10°	255.7	255.7	256.3	256.5	256.5	256.7	257.5	257.5	257.8	258.0	258.5
12.5°	256.0	257.0	257.8	258.5	258.8	259.4	260.6	260.6	261.1	261.9	262.1
15°	256.3	257.8	259.4	259.8	260.4	261.4	262.6	263.2	263.9	264.7	265.2
17.5°	256.0	258.0	259.8	260.6	261.4	262.6	264.2	264.7	265.7	266.7	267.7
20°	255.7	258.5	261.4	262.4	263.4	265.2	267.3	268.6	269.6	271.1	272.1
22.5°	257.3	260.6	264.5	266.0	267.7	270.0	272.8	274.4	275.7	277.2	278.0
25°	262.1	264.7	269.3	271.8	274.1	278.0	281.9	283.6	285.1	286.4	286.7
27.5°	270.3	271.1	276.7	280.0	283.4	289.5	294.1	295.4	298.2	299.3	299.0
30°	283.6	282.3	287.0	292.1	296.9	305.4	311.0	314.3	316.9	316.9	314.9
32.5°	302.8	300.7	302.0	307.9	313.6	325.9	332.6	336.8	338.7	338.1	333.8
35°	327.9	326.6	325.9	330.5	339.4	353.8	362.4	364.7	367.6	367.1	361.4
37.5°	357.6	356.6	356.6	362.0	370.7	391.9	401.4	402.9	402.7	398.5	388.1
40°	392.7	392.2	389.9	392.9	400.4	428.0	440.8	442.9	440.0	433.4	421.1
42.5°	443.1	440.0	432.8	434.6	440.3	467.2	483.8	489.4	486.6	480.0	460.0
45°	508.8	505.6	493.5	492.0	495.1	518.6	540.1	541.4	540.8	532.5	508.8
47.5°	586.2	581.0	568.3	564.2	563.2	584.9	605.7	607.7	606.4	593.9	562.4
50°	669.9	662.5	654.1	651.2	647.1	662.7	683.7	684.0	678.9	661.5	632.0
52.5°	759.3	756.7	755.2	752.3	750.5	764.1	776.9	769.2	761.5	743.4	717.8
55°	849.3	859.8	870.6	871.6	874.7	889.3	889.0	868.0	862.4	852.4	827.1
57.5°	945.0	984.0	1017.8	1028.3	1038.5	1065.7	1063.1	1042.3	1035.2	1022.9	1001.9
60°	1075.4	1180.3	1277.9	1301.1	1317.3	1349.8	1346.7	1314.7	1329.6	1328.6	1301.4
62.5°	1257.9	1432.5	1578.6	1614.4	1625.7	1629.3	1609.9	1575.3	1589.9	1606.2	1522.8
65°	1381.5	1586.8	1736.8	1764.5	1766.0	1723.3	1680.0	1639.3	1635.7	1621.6	1502.3
66°	1384.3	1594.5	1745.0	1771.9	1762.4	1704.0	1649.3	1608.3	1590.6	1559.6	1436.0
67.5°	1334.7	1546.6	1708.7	1737.0	1716.3	1633.7	1558.1	1505.4	1470.9	1420.7	1311.6
70°	1120.9	1331.1	1530.7	1583.7	1590.4	1467.0	1362.3	1300.4	1253.8	1184.9	1091.0
72.5°	833.5	1023.4	1199.5	1250.2	1276.0	1177.5	1089.2	1042.1	978.3	905.9	839.1
75°	522.4	656.6	774.6	810.1	785.9	709.6	656.6	636.8	574.1	530.9	500.5
77.5°	298.7	340.7	350.1	336.7	307.9	235.7	167.6	124.2	107.7	119.3	131.5
80°	291.5	267.3	212.9	187.3	169.7	116.7	68.6	47.1	39.2	40.2	43.5
82.5°	315.9	338.9	279.0	227.5	191.0	129.0	71.2	37.9	25.6	30.2	34.0
85°	205.3	285.7	257.3	216.8	175.6	110.3	58.6	19.7	13.0	17.1	23.5
87.5°	20.7	22.8	19.4	26.3	19.7	9.2	4.7	2.8	2.6	3.1	4.7
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):

	105°	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°
0°	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2	255.2
2.5°	255.0	255.0	255.2	255.4	255.7	256.0	256.0	256.0	256.0	256.5	256.3
5°	255.4	256.0	256.5	256.7	257.3	257.3	258.0	257.8	257.8	258.5	258.8
7.5°	256.5	257.3	258.3	258.0	259.1	258.8	259.4	259.4	258.5	258.8	258.3
10°	258.8	259.8	260.4	259.5	259.8	258.8	258.5	257.3	255.7	255.0	254.0
12.5°	262.6	263.6	263.6	262.4	260.8	258.5	256.7	254.0	251.6	250.3	249.0
15°	266.0	267.0	266.7	264.7	262.4	258.8	256.3	252.9	249.6	247.5	246.2
17.5°	268.6	269.0	268.3	265.5	262.9	259.5	257.0	253.4	249.6	247.0	244.7
20°	272.4	271.8	270.0	266.5	263.6	260.6	258.5	255.4	251.1	247.8	244.5
22.5°	278.0	275.9	272.7	268.7	266.0	263.2	261.1	257.8	253.4	249.3	245.5
25°	285.4	281.3	276.7	272.7	270.0	267.0	264.7	261.1	256.5	251.9	247.3
27.5°	296.2	289.0	283.1	279.5	276.7	272.8	270.0	265.5	260.6	255.2	250.0
30°	308.2	298.5	292.8	290.0	287.0	282.9	278.5	272.7	267.0	261.1	255.0
32.5°	323.8	312.0	306.7	303.8	299.7	294.6	289.5	282.9	274.9	267.3	259.8
35°	344.3	332.3	326.6	322.2	316.7	310.0	302.6	293.6	282.9	272.7	263.2
37.5°	366.3	353.2	347.9	343.3	334.8	326.1	315.6	302.6	288.0	274.4	262.6
40°	394.2	382.1	375.3	367.4	357.3	342.2	325.9	306.9	288.2	271.6	257.8
42.5°	429.5	417.5	407.3	394.7	377.3	354.0	330.7	306.1	283.6	264.7	249.9
45°	476.4	461.8	444.1	422.1	394.0	361.4	331.0	301.3	274.9	254.0	238.0
47.5°	533.7	511.4	482.5	445.4	404.9	363.4	326.9	291.5	261.4	238.6	220.9
50°	601.8	566.7	519.2	464.6	410.6	360.4	316.7	276.9	242.1	217.9	196.8
52.5°	679.6	622.3	552.2	478.4	410.3	350.1	299.3	255.0	217.0	190.0	170.0
55°	771.0	685.8	586.2	488.7	403.2	331.3	272.7	224.0	186.1	161.0	142.6
57.5°	904.8	788.7	645.6	504.6	388.8	302.0	236.6	186.9	153.6	129.8	114.1
60°	1149.6	960.5	752.6	536.6	366.8	259.4	194.3	147.2	119.3	100.1	89.6
62.5°	1333.9	1093.3	810.4	529.4	322.5	206.6	144.1	107.3	87.8	74.8	68.1
65°	1307.5	1052.1	748.7	455.9	252.9	145.7	95.7	72.9	60.4	54.2	50.4
66°	1247.9	998.3	695.3	410.3	218.6	121.1	78.9	61.2	52.0	47.6	45.0
67.5°	1134.8	898.5	599.5	336.4	167.9	87.8	59.3	48.4	42.2	40.5	38.7
70°	943.3	716.5	420.8	195.8	85.8	48.9	37.7	33.8	32.3	32.0	31.4
72.5°	722.9	507.1	247.8	92.7	44.6	32.5	29.2	27.9	27.3	27.3	27.6
75°	443.1	284.9	109.6	45.3	31.3	27.3	25.9	25.3	25.1	25.3	25.1
77.5°	148.0	90.6	46.9	34.3	28.4	25.3	24.3	23.8	23.8	23.8	23.8
80°	45.3	39.4	35.8	31.7	26.9	24.1	22.5	22.2	22.5	22.8	22.0
82.5°	34.0	32.3	30.2	28.2	24.3	21.5	21.0	21.0	21.0	20.2	19.2
85°	25.1	24.8	20.5	19.2	18.0	18.0	18.0	18.0	17.1	15.9	14.9
87.5°	4.7	4.4	4.7	4.8	7.2	7.7	7.7	8.2	8.9	8.5	8.5
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°	255.2	255.2	255.2	255.2	255.2
2.5°	256.3	256.0	256.7	256.3	256.5
5°	258.5	258.3	258.8	258.3	259.1
7.5°	257.8	257.3	257.0	257.3	257.5
10°	252.4	251.9	251.6	251.4	251.6
12.5°	247.8	246.8	246.8	246.2	246.5
15°	244.5	243.7	243.4	242.9	243.2
17.5°	242.9	241.7	241.1	240.7	240.7
20°	241.9	240.4	239.6	239.1	238.8
22.5°	241.9	239.6	238.6	238.0	237.8
25°	242.9	240.1	238.6	237.8	237.6
27.5°	244.9	241.4	239.6	238.6	238.6
30°	248.6	243.9	241.4	240.1	239.8
32.5°	252.1	246.0	242.4	240.8	240.4
35°	254.0	246.0	241.7	239.1	238.6
37.5°	251.9	242.7	237.3	233.5	232.7
40°	245.5	235.7	229.9	226.3	225.8
42.5°	237.0	227.5	220.7	218.0	217.3
45°	225.5	214.2	207.4	203.7	204.0
47.5°	205.8	194.3	188.2	184.8	185.3
50°	182.5	171.3	165.9	162.3	163.1
52.5°	156.9	146.7	141.6	139.7	139.3
55°	130.0	122.1	118.5	116.5	115.7
57.5°	105.5	99.8	97.3	94.7	95.0
60°	83.2	80.4	79.6	76.8	76.6
62.5°	65.5	63.7	63.0	60.9	61.2
65°	49.7	49.1	49.7	48.4	48.9
66°	44.8	45.0	45.0	44.3	44.8
67.5°	38.7	39.2	39.9	39.2	39.7
70°	32.0	32.5	33.0	33.0	33.0
72.5°	27.9	28.4	28.7	28.7	28.7
75°	25.6	25.9	26.1	25.6	25.6
77.5°	24.1	24.1	23.5	23.3	23.1
80°	21.8	21.5	20.7	20.2	20.2
82.5°	18.1	17.7	17.1	16.4	16.4
85°	13.9	13.3	12.8	11.8	11.3
87.5°	7.2	7.4	7.2	5.9	5.1
90°	0.0	0.0	0.0	0.0	0.0

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