

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: P180923

Luminaire Tested: **ICS-F01-LED-E1-SL4**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180923
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33680)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICS-F01-LED-E1-SL4
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2195 lumens
Efficiency: N/A
Efficacy: 84.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Full Cutoff
BUG Rating: B1 - U0 - G1

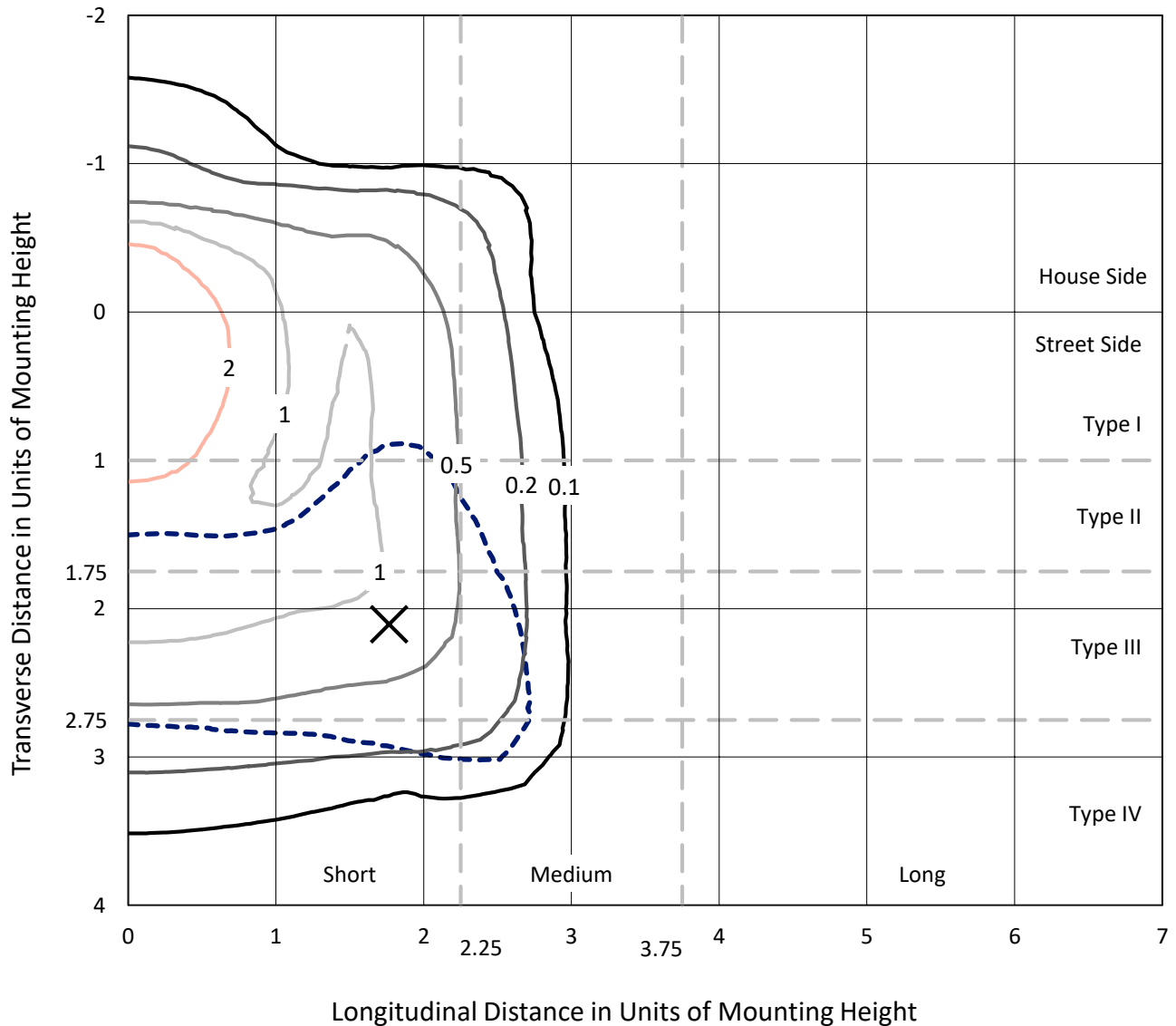
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

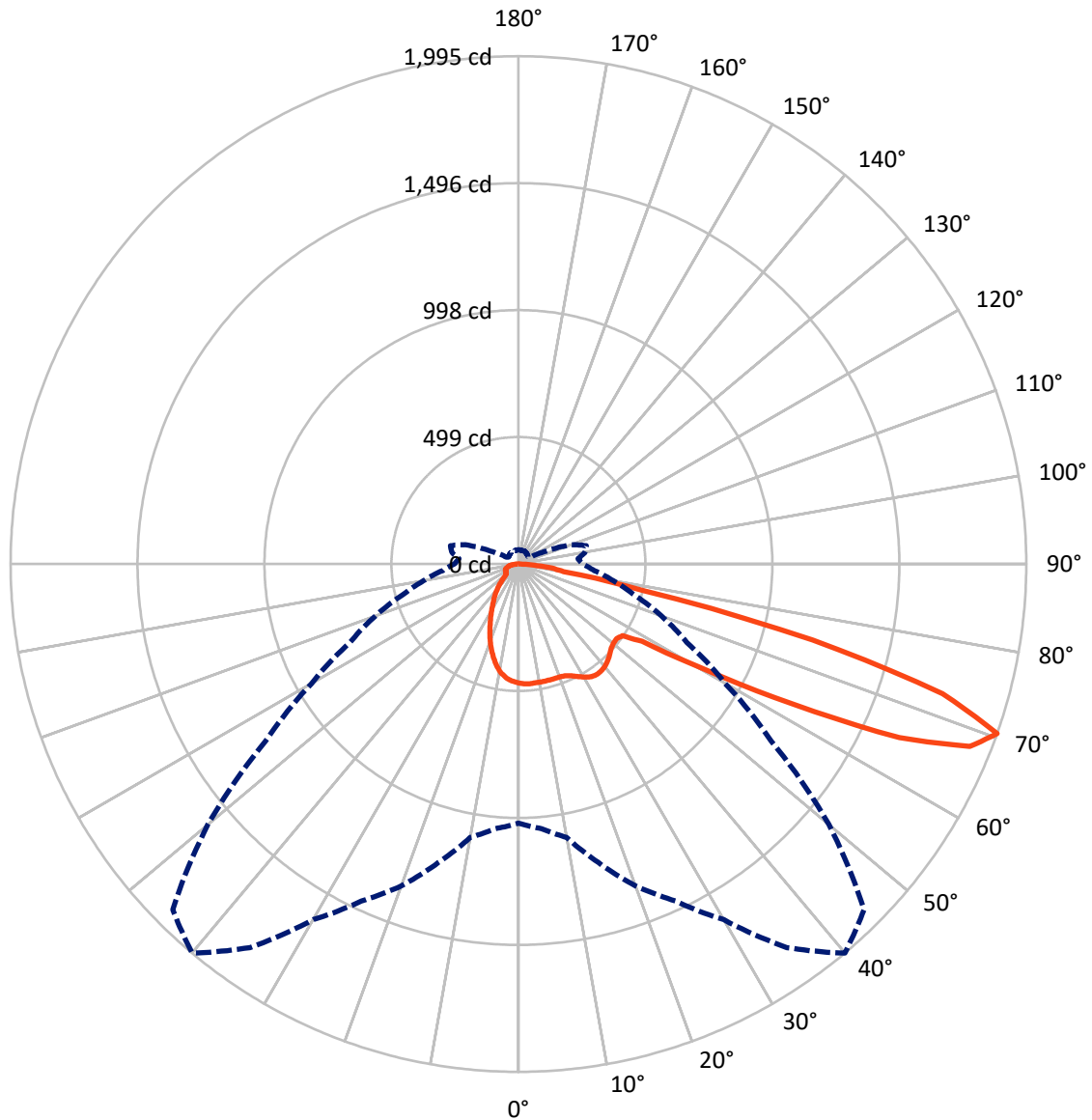
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 4.7 fc
 Type IV - Short - Full Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 70-Deg Vertical

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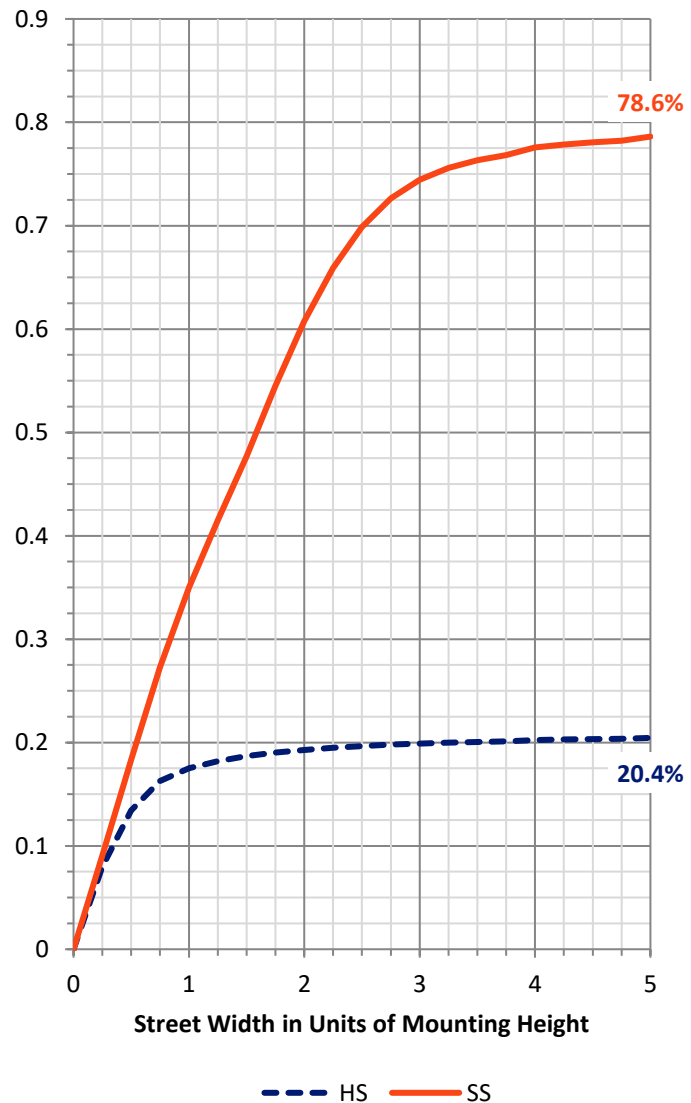
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	455.6	0.0	455.6
	% Fixture	20.8	0.0	20.8
Street Side	Lumens	1739.3	0.0	1739.3
	% Fixture	79.2	0.0	79.2
Total	Lumens	2195.0	0.0	2195.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	43.8	2.0
10°-20°	119.8	5.5
20°-30°	177.3	8.1
30°-40°	224.1	10.2
40°-50°	253.4	11.5
50°-60°	360.6	16.4
60°-70°	671.6	30.6
70°-80°	307.8	14.0
80°-90°	36.5	1.7
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°	2195.0	100.0
0°-180°	2195.0	100.0



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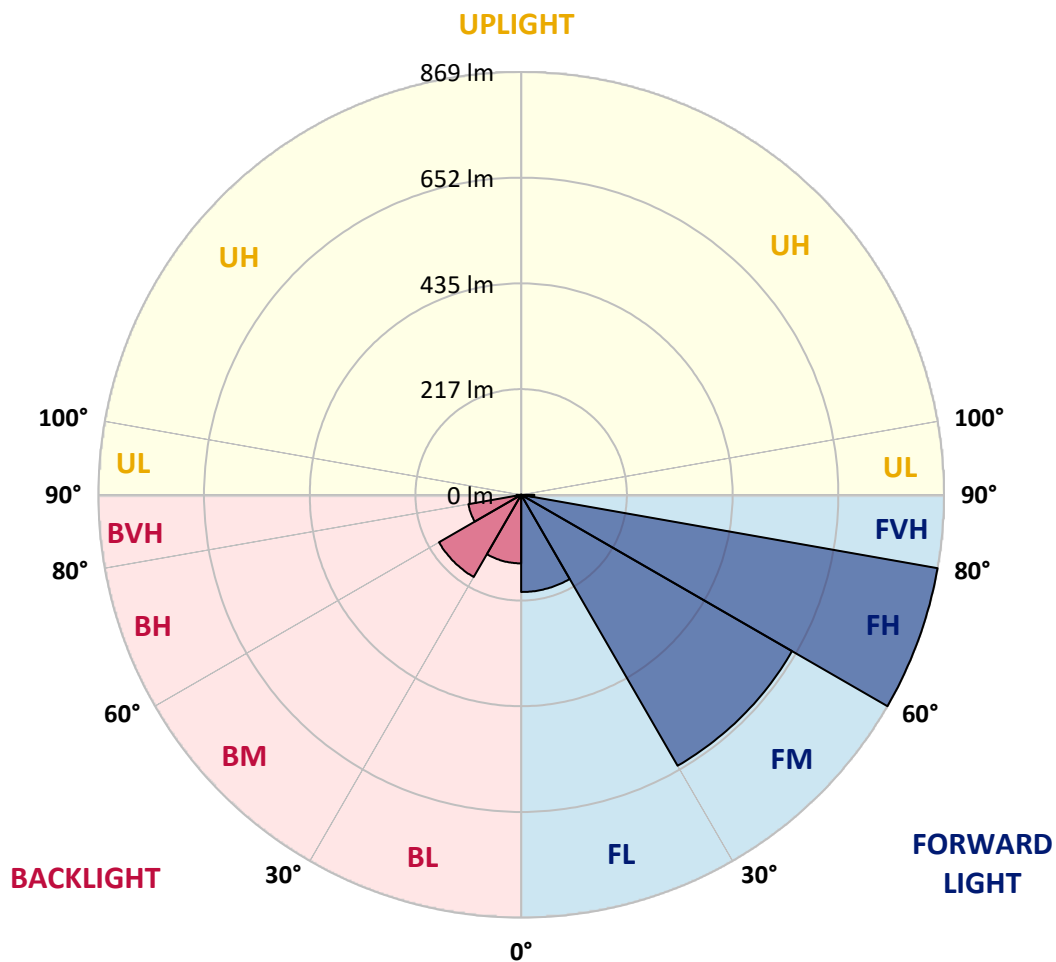
CATALOG NUMBER: ICS-F01-LED-E1-SL4

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	199.9	9.1			
FM (30°-60°)	643.0	29.3			
FH (60°-80°)	869.3	39.6			G1/1800
FVH (80°-90°)	27.1	1.2			G1/100
BL (0°-30°)	141.0	6.4	B1/500		
BM (30°-60°)	195.1	8.9	B0/220		
BH (60°-80°)	110.2	5.0	B1/500		G1/500
BVH (80°-90°)	9.4	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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	475.5	476.8	475.3	475.0	475.0	474.8	473.3	473.1	471.1	471.3	471.8
5°	479.0	479.5	478.5	478.3	477.8	476.8	475.5	474.0	472.6	471.1	469.8
7.5°	482.5	482.0	481.2	481.2	480.5	479.0	476.5	474.5	471.3	469.6	467.4
10°	487.4	486.7	485.7	485.2	483.9	481.7	478.3	475.5	471.6	468.1	464.4
12.5°	492.1	491.9	490.4	489.6	487.7	485.4	481.2	477.0	471.8	466.4	461.4
15°	500.5	499.6	498.1	496.6	493.4	490.4	483.9	479.0	471.6	464.4	456.7
17.5°	515.2	513.4	511.9	508.7	504.8	499.6	490.1	481.7	471.6	461.2	452.5
20°	541.9	538.2	536.2	532.0	525.1	515.7	501.0	487.4	472.3	458.9	447.3
22.5°	572.1	569.6	566.9	564.2	553.3	539.7	519.9	499.6	476.8	457.9	443.1
25°	606.1	602.8	601.3	596.6	586.5	570.9	543.9	515.7	486.9	461.9	443.1
27.5°	636.3	635.3	635.0	629.6	619.9	601.6	569.6	535.7	500.8	470.1	446.8
30°	663.8	662.8	662.3	659.3	648.2	626.4	591.7	553.5	515.9	481.5	453.7
32.5°	693.0	689.8	688.3	682.6	669.9	644.4	604.8	565.2	527.8	492.6	461.4
35°	716.8	714.0	711.1	702.9	685.1	654.8	610.5	569.1	532.5	498.8	465.4
37.5°	734.1	731.4	727.2	716.8	694.7	658.3	610.3	567.9	530.8	497.8	466.1
40°	741.8	739.1	734.6	721.5	696.5	656.3	605.6	562.2	525.6	492.6	463.1
42.5°	738.8	736.8	731.1	718.5	691.0	647.4	596.1	551.6	515.7	484.2	456.5
45°	727.4	725.9	720.5	707.1	678.6	633.0	582.3	538.2	503.8	473.8	447.5
47.5°	710.3	709.8	704.4	691.2	663.0	618.7	567.9	525.1	491.9	463.6	440.1
50°	691.5	689.0	686.3	674.2	648.4	606.3	557.5	516.9	485.2	459.9	436.9
52.5°	679.6	678.9	676.4	665.5	640.7	599.1	552.8	513.9	484.7	459.2	435.2
55°	785.1	786.9	764.1	716.8	675.2	618.9	566.9	529.0	496.8	471.1	453.5
57.5°	1161.3	1153.7	1114.5	1020.7	914.6	774.7	673.9	612.7	572.9	577.3	586.2
60°	1353.0	1351.5	1344.4	1308.0	1237.4	1130.9	1012.7	877.3	834.2	838.9	842.3
62.5°	1438.7	1440.9	1446.4	1432.8	1414.2	1383.2	1324.3	1269.8	1212.1	1190.6	1132.8
65°	1478.3	1482.3	1494.7	1502.4	1509.6	1515.0	1538.3	1602.2	1644.3	1565.5	1382.3
67.5°	1396.4	1415.4	1456.3	1496.2	1531.8	1582.6	1661.4	1809.7	1913.0	1816.2	1550.4
70°	1017.9	1043.9	1090.7	1214.1	1345.8	1461.0	1613.6	1839.5	1995.2	1920.4	1592.0
72.5°	638.2	645.4	666.2	711.6	809.4	957.2	1224.0	1562.8	1742.6	1682.9	1345.6
75°	404.9	407.4	406.7	417.1	433.7	465.9	571.4	923.1	1193.8	1100.6	749.9
77.5°	241.2	244.9	246.4	249.7	257.6	269.0	277.6	314.0	500.5	485.9	272.2
80°	202.1	205.1	202.6	201.9	196.9	193.4	197.6	193.4	179.6	172.9	159.3
82.5°	107.0	106.7	106.0	113.2	127.8	139.2	147.9	145.9	132.0	112.4	95.4
85°	58.7	60.7	60.7	63.2	60.9	61.2	63.2	66.6	61.7	51.5	42.1
87.5°	5.0	7.7	6.2	7.7	10.4	7.4	7.2	7.2	6.2	4.5	4.0
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°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	470.6	470.1	469.1	468.3	468.3	467.1	466.4	465.9	465.6	464.6	464.6
5°	469.1	467.4	465.6	464.4	463.6	462.4	460.4	459.4	458.2	457.2	456.7
7.5°	465.9	462.6	459.9	457.9	455.5	453.5	451.0	448.8	446.6	445.6	445.1
10°	460.9	456.7	452.5	448.8	445.3	441.8	438.6	435.4	432.7	430.7	428.7
12.5°	456.2	449.8	444.3	438.9	433.4	429.2	424.8	420.0	416.1	412.4	411.4
15°	449.8	442.3	435.4	428.7	422.0	415.1	409.6	404.4	398.0	393.8	390.6
17.5°	443.8	434.9	426.5	418.6	410.4	403.2	395.0	388.1	381.7	375.2	370.5
20°	437.4	427.7	418.8	409.9	401.0	391.8	382.4	373.5	365.6	357.9	350.2
22.5°	431.7	421.8	413.1	403.5	393.5	383.1	372.2	361.1	351.9	342.0	333.1
25°	428.2	417.3	408.4	399.0	388.1	376.7	364.3	351.2	340.1	328.7	318.0
27.5°	428.2	414.1	404.9	395.5	384.4	372.2	358.6	344.3	331.6	319.0	305.9
30°	431.9	414.6	402.2	392.3	380.9	367.8	352.7	337.6	323.7	308.8	296.2
32.5°	435.4	415.6	400.2	387.6	374.5	361.6	346.2	330.1	314.8	300.7	287.3
35°	437.6	415.6	396.5	380.4	365.6	352.9	337.8	321.7	306.1	292.3	279.9
37.5°	437.9	413.6	390.6	372.2	356.6	343.5	329.2	314.0	299.2	286.3	275.9
40°	435.4	409.6	384.6	363.6	347.2	333.9	320.7	307.1	293.7	283.1	274.2
42.5°	430.9	405.4	378.9	356.6	339.6	325.7	313.6	301.9	290.3	281.1	273.7
45°	424.3	399.7	373.7	352.4	335.6	321.0	309.1	299.4	289.5	281.8	274.4
47.5°	418.3	397.8	375.5	355.2	337.6	322.5	310.3	302.2	294.5	289.3	279.1
50°	417.1	396.8	376.2	357.4	339.6	324.2	313.6	309.3	307.1	303.9	288.3
52.5°	413.6	396.5	381.7	371.3	359.9	352.7	341.5	345.5	343.0	331.6	303.4
55°	450.0	455.0	468.8	488.7	507.0	511.2	510.0	505.2	480.2	413.1	339.8
57.5°	618.7	646.7	672.9	684.6	683.1	669.9	660.5	641.5	605.3	523.6	411.6
60°	853.0	857.4	843.6	823.0	788.3	759.4	728.4	692.7	640.2	560.2	455.7
62.5°	1068.7	1008.8	947.1	889.1	836.4	790.3	747.2	697.4	629.1	545.6	450.0
65°	1221.0	1094.2	996.9	913.7	839.1	774.7	721.0	656.3	579.3	504.0	417.1
67.5°	1299.5	1105.1	955.8	839.9	734.1	644.9	573.4	510.4	453.2	420.3	365.1
70°	1211.9	937.9	729.9	598.9	472.3	378.7	299.2	251.1	234.5	265.8	276.4
72.5°	903.0	610.5	434.2	335.8	257.3	205.1	157.3	123.6	100.6	105.5	137.0
75°	427.0	263.5	186.2	141.7	112.7	93.4	76.3	69.8	58.5	48.5	45.6
77.5°	166.2	121.1	100.1	73.3	52.0	41.9	35.7	34.4	35.2	34.2	33.7
80°	126.6	85.7	53.7	39.4	33.9	30.0	26.5	25.5	26.0	27.2	28.5
82.5°	70.6	44.1	32.7	28.5	25.5	21.8	19.8	18.3	18.6	20.1	22.8
85°	27.2	21.3	19.6	18.8	17.6	14.1	12.1	12.4	14.1	16.8	16.8
87.5°	3.0	3.0	4.0	3.0	3.0	3.0	2.7	3.2	3.5	4.5	5.2
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3	468.3
2.5°	464.1	464.1	464.1	463.6	463.9	462.9	462.9	462.2	463.4	462.6	462.4
5°	457.0	456.7	455.7	455.7	455.7	455.7	456.5	454.5	456.0	456.0	455.2
7.5°	444.8	444.8	442.1	443.6	443.1	443.8	444.8	443.8	445.3	446.3	445.6
10°	428.0	428.0	425.7	427.5	426.7	428.5	430.2	429.2	430.2	431.7	432.2
12.5°	409.4	408.4	406.4	407.2	407.2	408.2	408.9	410.1	411.4	413.4	414.4
15°	387.9	386.4	383.9	383.9	382.4	382.9	384.4	384.9	387.4	390.1	393.3
17.5°	365.8	362.1	359.4	356.2	353.7	355.7	357.4	358.6	360.6	364.8	367.0
20°	345.0	337.6	332.4	328.2	325.4	326.7	328.9	330.4	332.1	333.1	333.9
22.5°	324.4	316.0	308.8	303.6	299.2	300.4	299.4	298.7	299.9	296.7	296.5
25°	306.6	296.7	287.1	280.9	275.4	273.7	268.5	267.2	263.8	261.0	259.1
27.5°	293.7	280.9	270.2	263.0	254.4	247.9	241.2	234.5	230.8	226.4	224.1
30°	283.6	270.0	257.3	245.2	233.8	223.9	215.0	206.3	200.4	193.9	189.7
32.5°	274.2	261.5	246.2	229.6	214.2	203.1	191.4	181.5	172.1	163.7	157.5
35°	267.7	253.6	234.0	213.7	196.4	183.3	170.9	156.8	145.4	134.5	127.8
37.5°	264.3	246.9	222.9	200.4	181.0	166.2	150.8	134.5	120.6	110.5	100.3
40°	261.5	240.2	213.0	188.5	168.2	150.3	132.5	113.2	97.8	87.2	79.3
42.5°	258.6	232.8	204.3	179.1	156.5	135.7	114.2	93.6	79.0	71.6	68.1
45°	255.3	226.4	196.2	170.1	145.1	119.9	95.1	76.0	67.4	64.9	64.9
47.5°	254.6	222.2	190.2	161.5	132.3	101.5	77.5	65.6	63.2	63.7	64.6
50°	257.6	220.9	185.0	151.3	115.2	82.2	65.6	61.7	62.2	63.7	65.1
52.5°	264.8	221.9	179.6	137.2	94.9	67.9	60.7	60.4	61.9	64.1	65.6
55°	276.9	221.9	169.2	116.2	75.8	60.9	58.9	59.9	61.9	63.9	65.1
57.5°	302.9	219.7	150.8	92.9	63.4	58.5	58.5	59.7	61.4	63.4	64.4
60°	333.9	216.7	125.1	71.8	57.2	56.5	58.2	59.7	61.2	62.9	63.9
62.5°	335.8	209.0	99.1	59.4	54.0	55.2	58.0	59.9	60.4	61.7	62.9
65°	308.6	182.3	78.8	53.2	52.5	54.5	57.2	58.7	58.9	59.4	60.7
67.5°	270.2	148.6	63.7	50.3	51.0	53.2	54.7	56.0	56.7	58.0	58.2
70°	221.9	119.4	54.5	47.3	48.0	50.5	51.8	53.0	54.5	56.0	55.2
72.5°	157.3	92.9	47.8	44.1	45.1	47.3	48.8	49.8	51.0	52.5	51.5
75°	66.9	64.9	41.4	39.9	41.4	42.8	44.3	45.8	47.1	47.8	47.8
77.5°	34.2	38.1	35.7	35.7	36.7	38.1	39.4	40.9	41.6	42.4	43.3
80°	29.0	29.5	30.0	31.0	31.9	33.4	34.7	35.9	36.2	36.4	36.9
82.5°	24.0	25.0	25.5	27.0	27.7	28.2	29.0	29.0	29.5	29.5	28.7
85°	17.3	18.6	19.3	19.6	19.3	19.6	19.8	20.3	21.5	21.5	20.6
87.5°	5.0	4.7	5.9	6.2	6.7	7.7	8.7	10.4	10.9	11.4	11.4
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):

	165°	170°	175°	180°
0°	468.3	468.3	468.3	468.3
2.5°	462.2	462.6	461.7	461.9
5°	455.2	456.2	455.0	456.5
7.5°	446.3	447.8	447.5	447.3
10°	433.4	435.4	435.4	436.1
12.5°	417.1	418.3	419.3	419.8
15°	395.0	397.3	398.5	398.5
17.5°	368.5	370.0	370.8	369.8
20°	334.9	334.4	334.6	332.1
22.5°	296.0	296.7	294.5	295.0
25°	257.8	256.6	257.6	256.1
27.5°	220.9	221.2	218.4	219.7
30°	185.8	184.5	181.0	182.8
32.5°	151.8	148.6	144.9	142.7
35°	119.9	114.9	113.2	112.4
37.5°	94.1	88.7	86.9	85.0
40°	74.8	72.8	72.1	72.6
42.5°	67.1	67.1	67.6	67.9
45°	65.1	65.9	66.6	66.9
47.5°	65.4	66.1	67.1	67.4
50°	65.9	66.6	67.4	67.6
52.5°	66.1	66.1	66.6	66.9
55°	65.6	65.4	65.6	65.9
57.5°	64.6	64.1	64.4	65.1
60°	64.1	63.4	63.9	64.4
62.5°	62.9	62.7	63.2	63.4
65°	60.2	60.4	61.2	61.2
67.5°	57.7	58.0	58.2	58.5
70°	54.7	55.0	55.5	55.7
72.5°	51.3	52.3	53.0	54.0
75°	48.5	49.5	51.0	52.0
77.5°	43.8	44.6	46.3	47.6
80°	37.2	36.9	37.2	37.9
82.5°	28.5	28.5	28.2	28.0
85°	20.1	19.8	19.1	19.1
87.5°	10.9	10.6	10.4	9.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)