

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: P180823

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180823
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33728)
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-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1511.9 lumens
Efficiency: N/A
Efficacy: 58.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.17' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

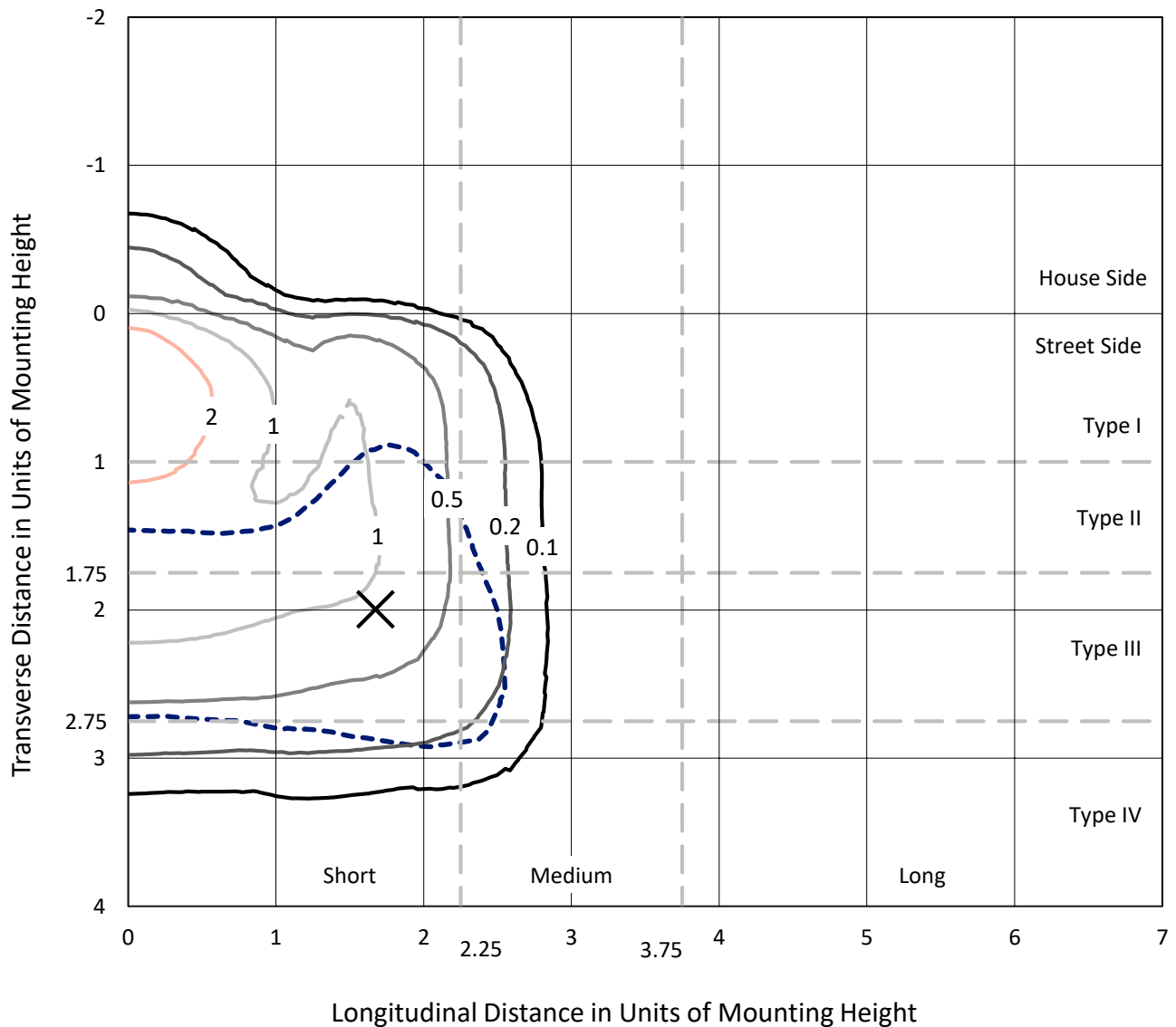
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

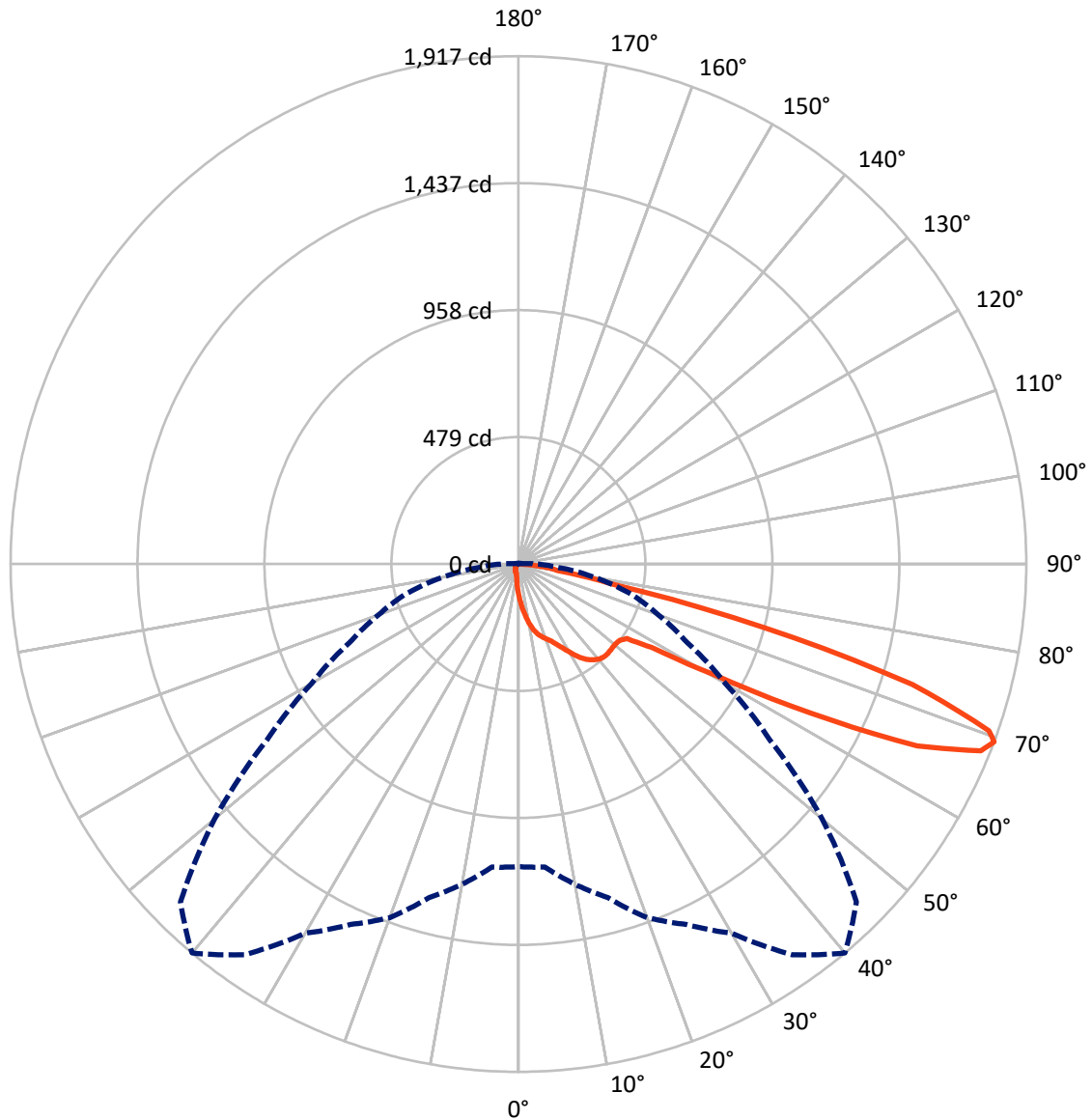
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 40-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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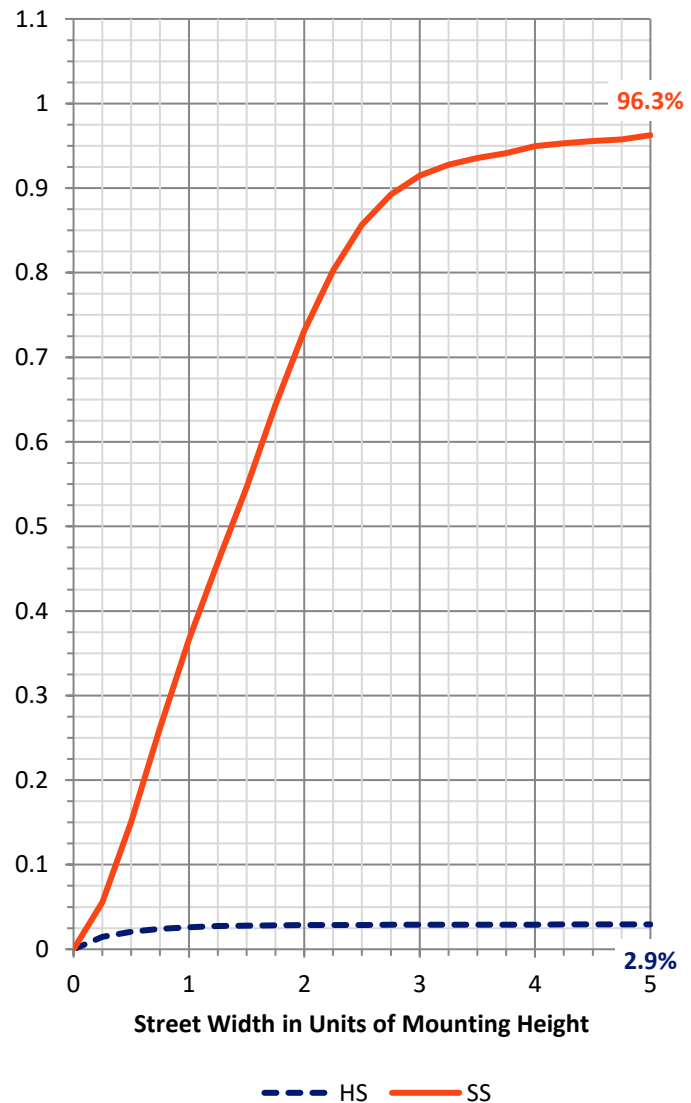
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	45.0	0.0	45.0
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	1466.9	0.0	1466.9
	% Fixture	97.0	0.0	97.0
Total	Lumens	1511.9	0.0	1511.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.7	0.8
10°-20°	40.5	2.7
20°-30°	77.4	5.1
30°-40°	128.8	8.5
40°-50°	174.3	11.5
50°-60°	272.5	18.0
60°-70°	560.3	37.1
70°-80°	225.5	14.9
80°-90°	20.8	1.4
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°	1511.9	100.0
0°-180°	1511.9	100.0



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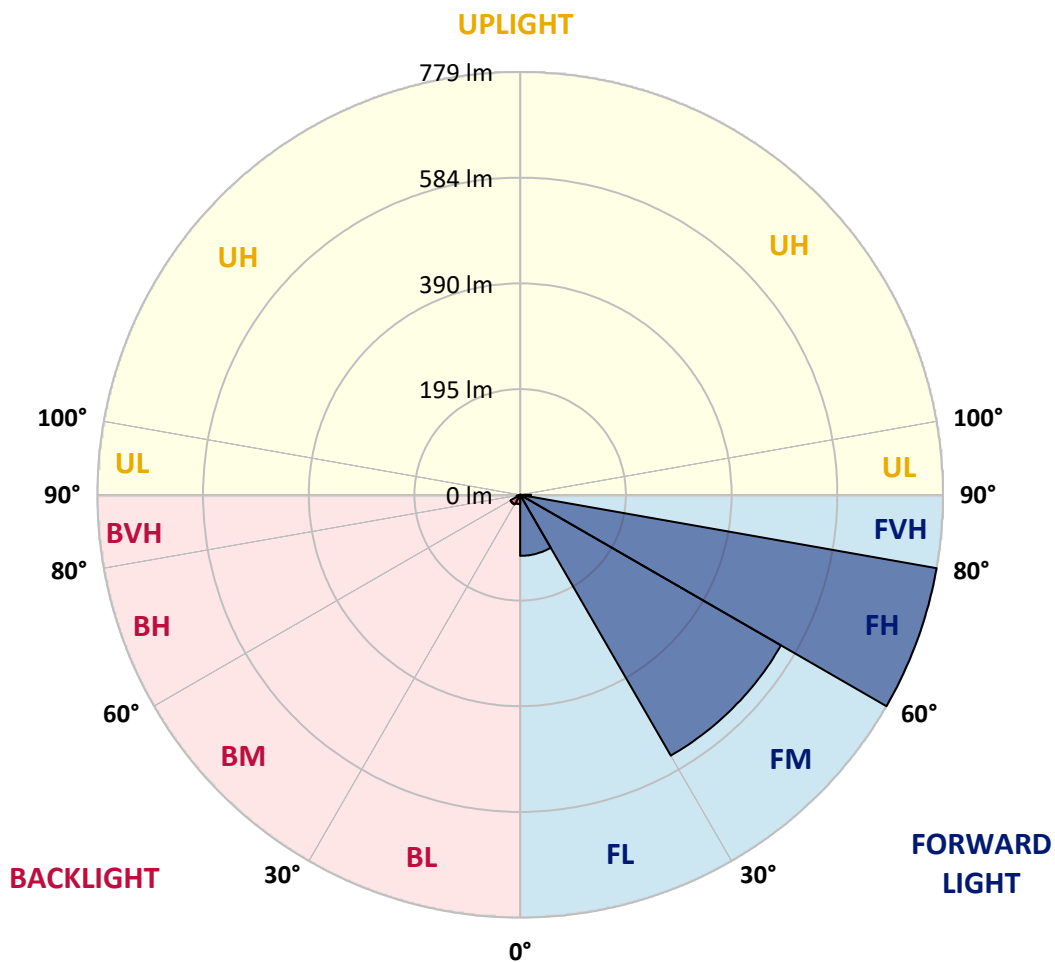
CATALOG NUMBER: ICS-F01-LED-E1-SL4-HSS

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	112.5	7.4			
FM (30°-60°)	555.0	36.7			
FH (60°-80°)	779.2	51.5			G1/1800
FVH (80°-90°)	20.1	1.3			G1/100
BL (0°-30°)	17.1	1.1	B0/110		
BM (30°-60°)	20.6	1.4	B0/220		
BH (60°-80°)	6.6	0.4	B0/110		G0/110
BVH (80°-90°)	0.8	0.1			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 IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
2.5°	152.3	150.6	148.6	148.6	146.1	146.1	144.6	140.7	140.2	138.0	135.7
5°	194.4	192.9	190.5	188.2	186.2	182.8	180.3	175.6	170.4	165.4	161.0
7.5°	235.5	234.8	230.3	229.6	226.4	220.7	215.7	208.8	199.9	192.9	184.8
10°	273.7	271.9	271.0	266.7	262.0	255.8	248.2	239.7	229.3	218.4	206.8
12.5°	303.9	302.9	298.4	296.7	291.8	285.6	275.9	265.0	254.6	240.5	226.9
15°	326.4	324.7	321.7	319.0	313.1	307.6	298.7	286.8	274.2	258.8	242.5
17.5°	345.3	342.0	341.3	337.1	330.9	324.4	314.5	303.6	288.8	273.4	255.6
20°	370.5	366.1	364.6	358.4	351.2	342.3	330.9	317.3	301.7	284.8	266.5
22.5°	400.2	397.0	393.8	388.3	379.2	366.6	350.0	335.1	315.3	296.7	276.9
25°	442.3	439.6	434.4	427.0	415.6	400.5	380.4	358.6	335.3	311.6	288.3
27.5°	483.2	480.7	477.0	471.3	458.4	441.8	417.1	389.3	359.9	331.1	305.4
30°	521.6	519.4	515.7	510.0	498.6	482.2	454.2	424.5	387.9	354.4	323.5
32.5°	563.0	562.2	558.0	549.8	539.9	517.9	487.4	455.5	418.3	379.7	343.5
35°	609.8	604.1	600.1	591.9	575.1	551.6	515.9	481.0	441.8	402.2	361.8
37.5°	649.4	643.9	639.0	628.6	608.0	578.1	537.7	499.3	458.9	418.6	377.5
40°	678.4	675.6	669.7	656.1	633.0	597.4	553.8	511.9	471.3	430.7	390.1
42.5°	699.9	695.7	689.0	674.9	647.7	607.0	560.2	517.1	477.0	438.1	398.3
45°	707.8	704.4	698.2	682.8	653.4	609.8	560.0	515.7	477.3	440.4	403.7
47.5°	703.1	699.7	694.2	679.9	650.9	606.5	555.5	511.4	474.8	441.1	408.7
50°	687.5	685.6	681.3	669.2	643.2	600.4	551.6	509.2	474.3	444.8	415.6
52.5°	686.0	684.8	679.6	667.5	641.0	598.4	551.1	510.4	478.5	449.5	420.5
55°	838.4	820.8	781.4	748.0	693.0	627.6	576.1	530.5	496.3	468.1	447.8
57.5°	1191.5	1165.3	1113.5	1049.9	923.6	799.5	700.2	628.3	592.9	580.0	587.7
60°	1357.0	1352.3	1344.1	1313.9	1249.3	1142.5	1023.6	895.1	843.6	839.1	854.7
62.5°	1435.5	1432.5	1435.0	1431.3	1411.2	1380.0	1345.8	1290.4	1239.3	1206.4	1136.6
65°	1471.7	1473.6	1487.8	1498.9	1501.4	1509.6	1534.6	1603.7	1654.2	1569.2	1375.3
67.5°	1379.8	1391.4	1423.9	1464.5	1512.0	1558.1	1632.4	1778.0	1881.8	1782.0	1506.6
69°	1142.3	1148.0	1227.2	1303.7	1419.9	1501.1	1608.9	1799.8	1916.5	1803.8	1496.2
70°	899.3	904.5	989.4	1093.5	1289.9	1394.4	1535.3	1762.9	1884.0	1774.8	1442.7
72.5°	405.7	398.3	428.2	483.9	697.4	863.4	1109.8	1428.3	1554.4	1421.9	1079.3
75°	283.3	280.1	283.3	283.6	316.8	408.7	515.7	774.2	957.5	826.2	515.7
77.5°	219.4	217.2	215.0	212.5	216.5	242.5	252.9	274.7	356.6	337.3	196.7
80°	173.6	171.6	177.1	175.4	175.4	178.3	176.3	168.2	152.8	141.7	126.8
82.5°	80.7	81.2	81.2	88.2	106.3	124.1	129.8	121.6	108.0	91.9	74.1
85°	7.7	8.7	14.6	22.5	44.8	50.5	50.8	42.1	42.1	33.2	26.7
87.5°	0.0	0.2	0.2	0.2	2.2	6.2	5.2	1.5	0.7	0.7	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
2.5°	131.8	131.0	128.0	125.1	122.3	119.4	116.7	113.9	111.0	108.7	106.0
5°	154.1	148.6	142.4	136.5	130.5	124.3	117.9	112.2	106.3	100.8	95.6
7.5°	176.6	165.9	157.5	146.9	137.2	127.6	118.6	109.5	101.0	93.1	85.7
10°	195.7	182.8	169.7	156.0	142.2	129.3	116.9	106.0	94.9	85.2	76.0
12.5°	211.3	194.9	178.8	161.7	146.1	129.8	114.4	101.3	88.2	77.3	67.9
15°	225.4	206.6	187.2	167.4	147.6	129.0	111.9	95.6	82.2	69.8	59.2
17.5°	236.8	215.2	193.4	171.1	149.8	128.0	108.7	91.6	76.0	63.2	52.8
20°	246.7	224.1	200.6	175.6	151.3	127.8	106.0	86.7	70.6	57.0	46.8
22.5°	255.8	233.3	208.0	181.3	153.6	127.6	103.5	83.0	65.9	52.3	42.1
25°	266.2	242.5	216.0	187.2	157.5	128.5	102.0	80.0	61.7	47.8	38.4
27.5°	277.9	252.9	225.4	194.7	162.7	130.5	101.5	76.8	58.0	43.6	35.4
30°	294.2	265.3	234.8	202.1	167.4	132.8	101.0	74.8	54.2	40.4	32.4
32.5°	308.6	277.4	245.2	209.8	172.6	135.0	100.8	72.1	50.8	37.2	30.2
35°	323.7	288.5	254.1	217.2	177.1	137.5	100.6	70.1	47.6	33.9	28.0
37.5°	336.8	297.9	261.0	223.6	182.0	139.7	100.8	68.4	44.6	31.2	26.0
40°	348.0	307.6	268.7	229.6	187.2	143.2	101.0	66.6	41.6	28.7	24.3
42.5°	357.9	316.8	276.9	236.3	193.2	147.1	102.5	65.1	39.1	26.5	22.5
45°	365.6	325.2	285.8	245.7	202.8	153.6	105.3	64.1	36.7	24.5	21.1
47.5°	373.5	337.6	300.9	260.5	217.0	163.7	110.0	63.9	34.7	23.0	19.8
50°	384.4	350.0	314.3	275.7	229.8	174.1	115.7	64.1	32.2	21.5	18.6
52.5°	392.3	362.6	331.6	301.9	260.5	205.8	137.7	68.6	31.0	20.3	17.1
55°	439.1	433.9	434.7	439.6	407.7	350.2	230.3	99.1	36.4	23.0	16.8
57.5°	619.2	637.5	648.2	647.9	595.2	493.6	309.3	127.3	40.6	26.7	20.1
60°	856.0	842.1	822.5	774.2	704.1	563.5	346.0	137.0	35.2	21.3	18.3
62.5°	1065.2	984.0	911.9	833.7	741.8	587.7	353.4	136.2	30.7	16.1	12.9
65°	1195.8	1049.6	933.2	835.1	726.9	567.4	334.4	125.1	26.0	13.1	10.6
67.5°	1227.0	1014.2	849.5	724.4	607.3	441.6	245.4	94.1	20.3	10.9	9.4
69°	1158.9	901.5	703.9	562.0	441.8	293.0	151.8	59.4	15.6	9.9	8.7
70°	1066.0	784.1	573.4	451.0	327.2	205.8	106.3	41.9	12.6	9.2	7.9
72.5°	685.8	411.9	281.8	196.2	135.0	82.0	41.6	18.8	9.7	7.7	6.4
75°	266.0	152.3	110.5	84.0	65.6	45.6	25.3	12.1	8.2	6.4	5.0
77.5°	131.0	100.3	82.0	56.2	32.7	20.3	13.6	9.4	6.7	4.7	3.2
80°	103.5	68.9	41.1	25.5	19.3	14.6	10.4	7.7	5.0	3.0	2.2
82.5°	53.0	29.0	21.3	17.3	14.4	11.4	8.4	5.4	3.2	2.0	1.7
85°	16.6	12.1	10.9	10.6	9.9	8.2	5.9	3.5	2.0	1.2	1.2
87.5°	1.2	1.7	2.2	1.7	2.0	1.7	2.2	1.5	1.0	1.0	0.7
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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2	114.2
2.5°	104.0	101.0	98.3	96.6	93.4	92.1	90.9	90.4	88.2	88.7	86.7
5°	90.9	85.7	81.7	77.8	74.1	71.3	69.1	66.4	64.1	63.2	61.2
7.5°	79.0	72.3	67.1	62.9	58.5	55.0	52.0	50.0	48.0	46.1	45.1
10°	68.6	61.4	55.5	51.3	47.1	44.1	41.9	40.4	39.1	38.4	38.1
12.5°	58.9	52.0	46.6	42.8	39.6	38.1	37.2	36.4	36.2	35.9	35.9
15°	51.5	44.6	40.4	37.6	36.2	35.4	35.2	34.7	34.2	33.9	33.9
17.5°	44.6	39.4	36.4	34.9	34.2	33.7	33.2	32.7	32.2	31.9	31.9
20°	39.9	35.7	34.2	33.2	32.4	31.9	31.2	30.7	30.5	30.2	30.0
22.5°	36.2	33.4	32.4	31.7	30.7	30.0	29.5	29.0	28.5	28.2	28.0
25°	33.4	31.7	31.0	30.0	29.0	28.2	27.5	26.7	26.3	26.0	25.5
27.5°	31.5	30.2	29.2	28.0	27.0	26.3	25.5	24.8	24.3	23.8	23.5
30°	29.7	28.5	27.2	26.3	25.0	24.3	23.3	22.5	22.3	21.8	21.3
32.5°	28.0	26.7	25.5	24.3	23.0	22.0	21.5	20.6	20.1	19.8	19.3
35°	26.0	24.8	23.3	22.3	21.1	20.1	19.3	18.6	18.1	17.6	17.3
37.5°	24.3	22.8	21.3	20.1	19.1	18.1	17.3	16.6	16.1	15.6	15.4
40°	22.3	20.8	19.3	18.1	17.1	16.3	15.6	14.9	14.4	14.1	14.1
42.5°	20.6	18.8	17.3	16.3	15.6	14.6	13.9	13.1	12.9	12.6	12.9
45°	18.8	17.1	15.9	14.9	14.1	13.1	12.4	11.9	11.6	11.9	12.1
47.5°	17.3	15.6	14.4	13.6	12.9	12.1	11.4	10.9	10.9	11.4	11.9
50°	15.9	14.1	13.1	12.6	11.9	11.1	10.2	9.9	10.2	10.6	11.1
52.5°	14.4	12.4	11.6	11.4	10.6	9.9	9.2	8.9	9.2	9.7	9.4
55°	12.9	10.9	10.6	10.4	9.7	8.7	7.9	7.9	7.9	7.7	7.2
57.5°	12.4	9.7	9.4	9.2	8.4	7.4	6.9	6.4	6.2	5.4	5.2
60°	12.9	8.7	8.7	8.2	7.4	6.4	5.7	5.0	4.5	4.0	4.0
62.5°	10.4	7.9	7.7	7.2	6.2	5.2	4.5	3.7	3.5	3.2	3.2
65°	8.4	7.2	6.7	5.9	5.2	4.2	3.5	3.0	2.7	2.7	3.0
67.5°	7.7	6.4	5.7	5.0	4.2	3.2	2.7	2.5	2.5	2.7	2.7
69°	7.2	5.9	5.2	4.5	3.7	3.0	2.5	2.5	2.5	2.5	2.7
70°	6.7	5.7	5.0	4.2	3.2	2.5	2.2	2.2	2.5	2.5	2.7
72.5°	5.2	4.5	4.2	3.5	2.5	2.2	2.0	2.2	2.2	2.5	2.5
75°	4.0	3.2	3.2	2.7	2.0	1.7	1.7	2.0	2.0	2.2	2.2
77.5°	2.7	2.2	2.2	2.0	1.7	1.5	1.5	1.7	2.0	2.0	2.2
80°	2.0	1.7	1.5	1.7	1.5	1.2	1.5	1.7	1.7	2.0	2.0
82.5°	1.5	1.5	1.5	1.5	1.2	1.2	1.5	1.5	1.7	2.0	2.0
85°	1.2	1.2	1.2	1.2	1.2	1.2	1.2	1.5	1.5	1.7	1.7
87.5°	0.7	0.7	0.7	1.0	1.0	1.2	1.2	1.2	1.2	1.5	1.5
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):

	165°	170°	175°	180°
0°	114.2	114.2	114.2	114.2
2.5°	86.2	85.9	85.0	85.2
5°	60.4	58.9	59.9	59.7
7.5°	44.3	44.1	43.8	44.3
10°	37.9	37.9	37.6	37.9
12.5°	35.7	35.7	35.7	35.7
15°	33.9	33.9	33.7	33.7
17.5°	31.9	31.9	31.9	31.7
20°	30.0	29.7	29.7	29.7
22.5°	27.7	27.5	27.5	27.5
25°	25.5	25.3	25.3	25.3
27.5°	23.3	23.0	22.8	22.8
30°	21.1	20.8	20.6	20.6
32.5°	18.8	18.6	18.3	18.3
35°	16.8	16.8	16.6	16.3
37.5°	15.1	15.1	15.1	15.1
40°	13.9	14.1	14.1	14.1
42.5°	13.1	13.4	13.6	13.9
45°	12.6	13.1	13.4	13.4
47.5°	12.4	12.6	12.9	12.9
50°	11.4	11.1	11.1	11.1
52.5°	9.2	8.7	8.4	8.2
55°	6.7	6.4	5.9	5.9
57.5°	4.7	4.7	4.5	4.5
60°	3.7	3.7	3.5	3.7
62.5°	3.2	3.2	3.2	3.2
65°	3.0	3.0	3.0	3.0
67.5°	3.0	3.0	3.0	3.0
69°	2.7	2.7	2.7	2.7
70°	2.7	2.7	2.7	2.7
72.5°	2.5	2.5	2.5	2.5
75°	2.2	2.5	2.5	2.5
77.5°	2.2	2.2	2.2	2.2
80°	2.0	2.0	2.2	2.2
82.5°	2.0	2.0	2.0	2.0
85°	1.7	1.7	2.0	2.0
87.5°	1.5	1.5	1.7	1.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)