

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: P180761

Luminaire Tested: **ICM-F01-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180761
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: ICM-F01-LED-E1-SL4-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (7) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1318.8 lumens
Efficiency: N/A
Efficacy: 50.9 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

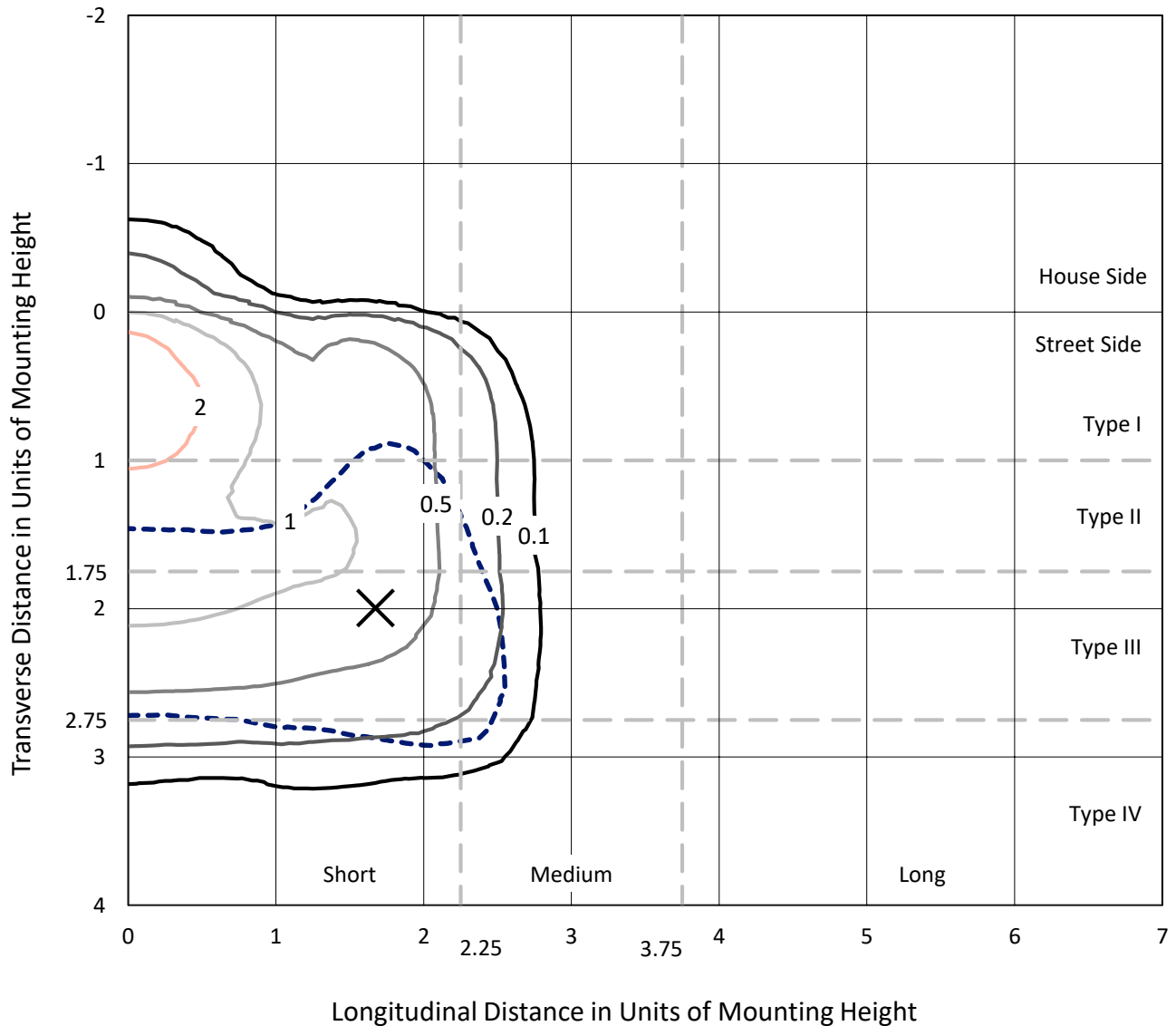
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

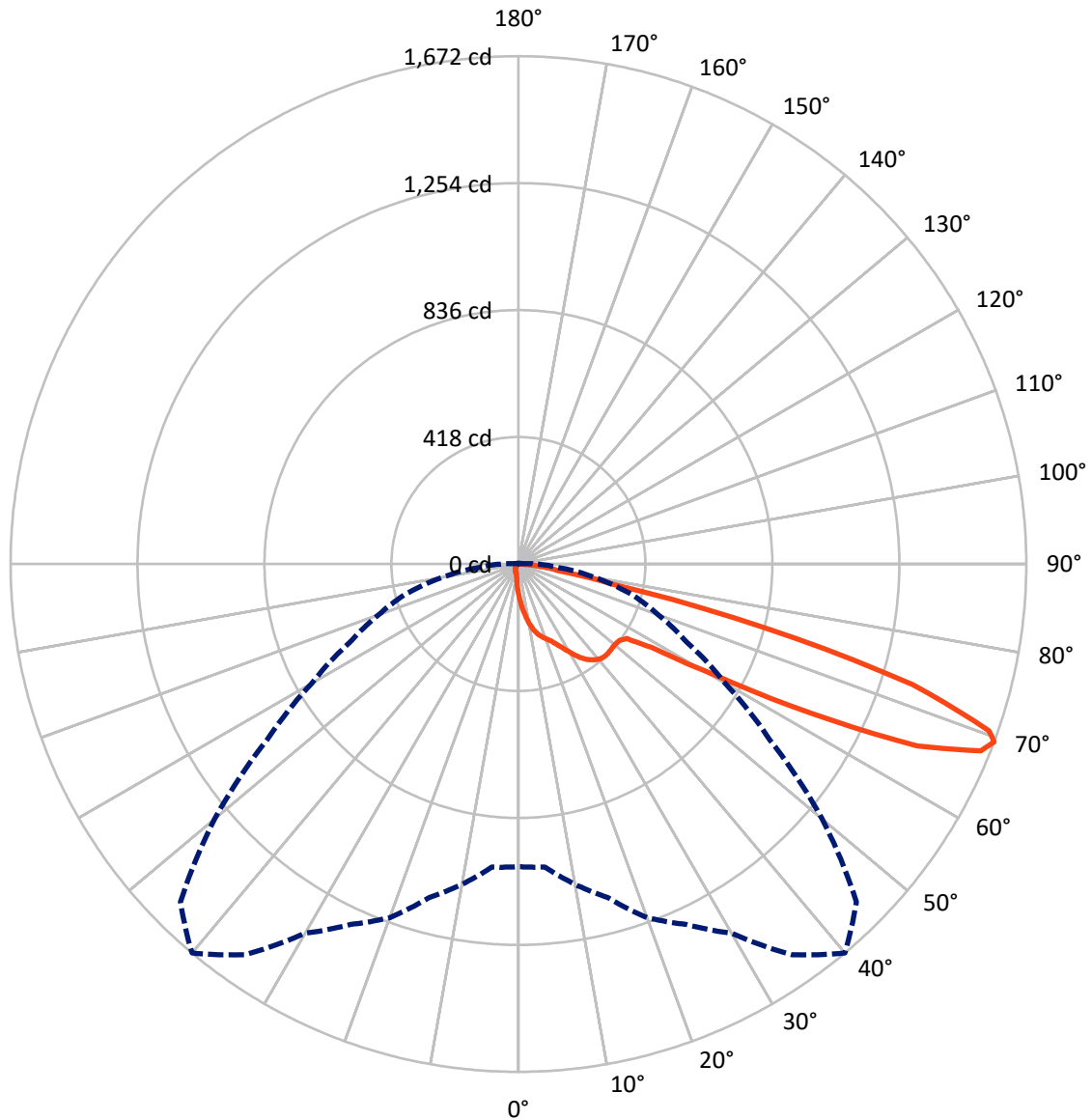
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3 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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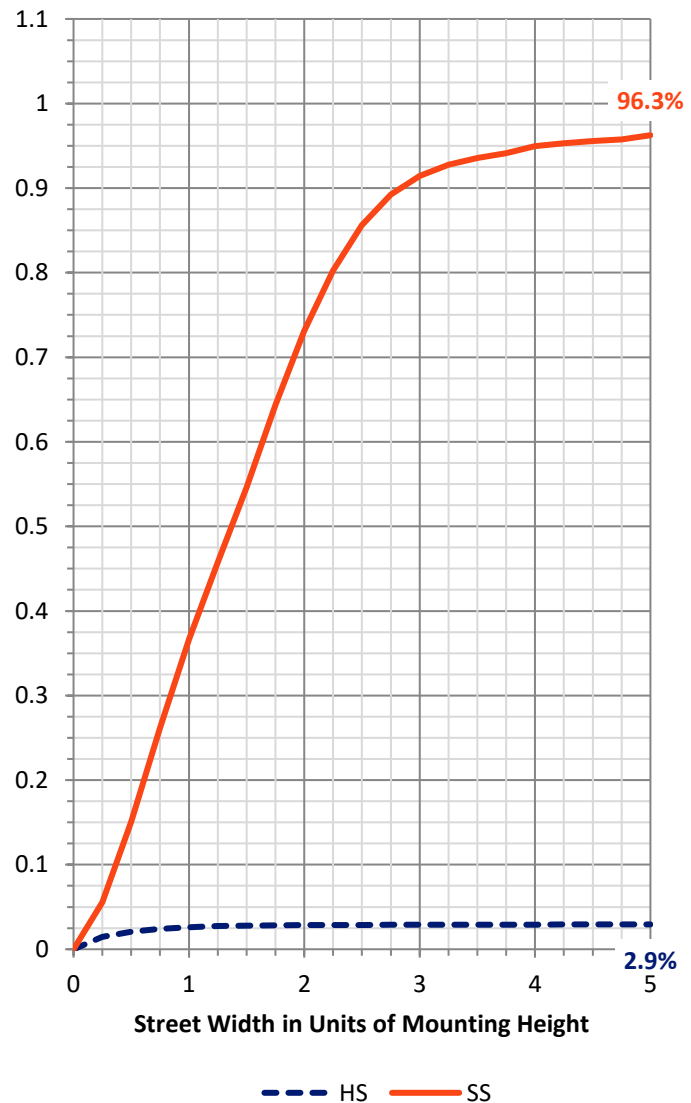
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	39.3	0.0	39.3
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	1279.6	0.0	1279.6
	% Fixture	97.0	0.0	97.0
Total	Lumens	1318.8	0.0	1318.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	10.2	0.8
10°-20°	35.3	2.7
20°-30°	67.6	5.1
30°-40°	112.3	8.5
40°-50°	152.0	11.5
50°-60°	237.7	18.0
60°-70°	488.8	37.1
70°-80°	196.7	14.9
80°-90°	18.2	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°	1318.8	100.0
0°-180°	1318.8	100.0



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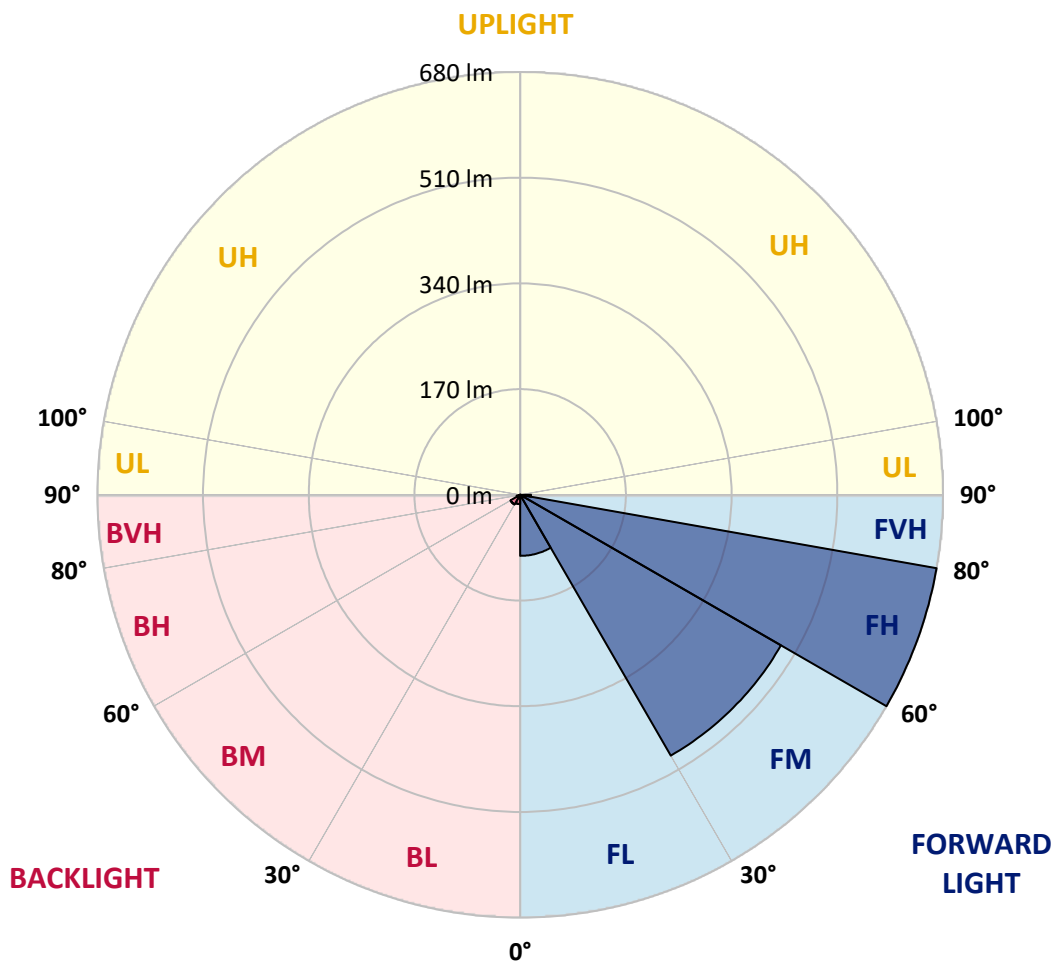
CATALOG NUMBER: ICM-F01-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	98.1	7.4			
FM (30°-60°)	484.2	36.7			
FH (60°-80°)	679.7	51.5			G1/1800
FVH (80°-90°)	17.5	1.3			G1/100
BL (0°-30°)	14.9	1.1	B0/110		
BM (30°-60°)	17.9	1.4	B0/220		
BH (60°-80°)	5.7	0.4	B0/110		G0/110
BVH (80°-90°)	0.7	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°	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2.5°	132.8	131.3	129.6	129.6	127.4	127.4	126.1	122.7	122.3	120.4	118.4
5°	169.6	168.3	166.1	164.2	162.4	159.4	157.3	153.2	148.7	144.3	140.5
7.5°	205.5	204.8	200.9	200.3	197.5	192.5	188.2	182.1	174.3	168.3	161.2
10°	238.7	237.2	236.4	232.7	228.6	223.2	216.5	209.1	200.1	190.5	180.4
12.5°	265.1	264.2	260.4	258.8	254.5	249.1	240.7	231.2	222.0	209.8	197.9
15°	284.7	283.3	280.7	278.2	273.1	268.3	260.6	250.1	239.2	225.8	211.5
17.5°	301.1	298.3	297.7	294.0	288.7	283.0	274.4	264.8	251.9	238.5	223.0
20°	323.2	319.4	318.0	312.7	306.3	298.6	288.7	276.7	263.2	248.5	232.5
22.5°	349.1	346.3	343.5	338.8	330.8	319.7	305.3	292.3	275.0	258.8	241.6
25°	385.9	383.4	379.0	372.5	362.5	349.3	331.8	312.8	292.6	271.8	251.4
27.5°	421.5	419.4	416.1	411.2	399.9	385.4	363.8	339.6	314.0	288.8	266.4
30°	455.0	453.0	449.8	444.8	434.9	420.7	396.2	370.3	338.3	309.1	282.1
32.5°	491.1	490.4	486.7	479.6	471.0	451.7	425.2	397.3	364.9	331.2	299.6
35°	531.9	526.9	523.4	516.4	501.7	481.1	450.0	419.5	385.4	350.9	315.6
37.5°	566.4	561.7	557.4	548.3	530.4	504.3	469.0	435.5	400.4	365.1	329.2
40°	591.7	589.4	584.2	572.3	552.2	521.1	483.1	446.6	411.2	375.7	340.3
42.5°	610.5	606.9	601.0	588.7	564.9	529.5	488.7	451.1	416.1	382.1	347.4
45°	617.5	614.4	609.0	595.6	570.0	531.9	488.5	449.8	416.3	384.1	352.2
47.5°	613.3	610.3	605.6	593.0	567.7	529.1	484.6	446.1	414.1	384.7	356.5
50°	599.7	598.1	594.3	583.7	561.0	523.7	481.1	444.2	413.7	388.0	362.5
52.5°	598.4	597.4	592.8	582.2	559.2	522.0	480.7	445.3	417.4	392.1	366.9
55°	731.3	716.0	681.6	652.5	604.5	547.4	502.5	462.8	432.9	408.3	390.6
57.5°	1039.4	1016.5	971.4	915.8	805.6	697.4	610.8	548.1	517.2	506.0	512.7
60°	1183.7	1179.6	1172.5	1146.1	1089.7	996.6	892.9	780.7	735.8	731.9	745.6
62.5°	1252.2	1249.6	1251.7	1248.5	1231.0	1203.8	1174.0	1125.6	1081.1	1052.4	991.4
65°	1283.7	1285.5	1297.8	1307.4	1309.7	1316.8	1338.6	1398.9	1443.0	1368.8	1199.7
67.5°	1203.5	1213.8	1242.1	1277.5	1319.0	1359.2	1423.9	1551.0	1641.5	1554.4	1314.1
69°	996.4	1001.4	1070.5	1137.2	1238.6	1309.4	1403.5	1570.0	1671.7	1573.4	1305.1
70°	784.5	789.0	863.1	953.9	1125.1	1216.3	1339.3	1537.8	1643.5	1548.2	1258.4
72.5°	353.9	347.4	373.6	422.1	608.4	753.1	968.1	1246.0	1355.9	1240.3	941.5
75°	247.2	244.4	247.2	247.4	276.3	356.5	449.8	675.4	835.3	720.7	449.8
77.5°	191.4	189.5	187.5	185.4	188.8	211.5	220.6	239.6	311.1	294.2	171.5
80°	151.4	149.7	154.5	152.9	152.9	155.5	153.9	146.7	133.3	123.5	110.6
82.5°	70.4	70.9	70.9	76.9	92.7	108.3	113.2	106.0	94.2	80.2	64.6
85°	6.7	7.5	12.7	19.6	39.1	44.1	44.3	36.7	36.7	28.9	23.3
87.5°	0.0	0.2	0.2	0.2	2.0	5.4	4.6	1.3	0.7	0.7	1.1
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2.5°	115.0	114.3	111.7	109.1	106.7	104.1	101.8	99.3	96.7	94.9	92.5
5°	134.4	129.6	124.2	119.1	113.9	108.5	102.8	97.9	92.7	87.9	83.3
7.5°	154.0	144.7	137.4	128.1	119.7	111.3	103.4	95.5	88.2	81.2	74.8
10°	170.7	159.4	148.0	136.1	124.0	112.7	102.0	92.5	82.7	74.3	66.3
12.5°	184.3	170.0	156.0	141.1	127.4	113.2	99.8	88.4	76.9	67.4	59.2
15°	196.6	180.2	163.3	146.0	128.7	112.6	97.7	83.3	71.7	60.9	51.6
17.5°	206.5	187.7	168.7	149.3	130.7	111.7	94.9	79.9	66.3	55.1	46.0
20°	215.2	195.5	175.0	153.2	132.0	111.4	92.5	75.6	61.6	49.7	40.8
22.5°	223.2	203.5	181.5	158.1	134.0	111.3	90.3	72.4	57.5	45.6	36.7
25°	232.3	211.5	188.4	163.3	137.4	112.1	89.0	69.8	53.8	41.7	33.5
27.5°	242.4	220.6	196.6	169.8	142.0	113.9	88.6	67.0	50.5	38.0	30.9
30°	256.7	231.4	204.8	176.3	146.0	115.8	88.2	65.2	47.3	35.3	28.3
32.5°	269.2	242.0	213.9	183.0	150.6	117.8	87.9	62.9	44.3	32.4	26.3
35°	282.3	251.7	221.7	189.5	154.5	119.9	87.7	61.1	41.5	29.6	24.4
37.5°	293.9	259.9	227.7	195.1	158.8	121.9	87.9	59.6	38.9	27.3	22.7
40°	303.5	268.3	234.4	200.3	163.3	124.8	88.2	58.1	36.3	25.0	21.2
42.5°	312.2	276.3	241.6	206.1	168.6	128.4	89.4	56.8	34.1	23.2	19.6
45°	318.9	283.6	249.3	214.3	176.9	134.0	91.8	56.0	32.0	21.4	18.3
47.5°	325.8	294.5	262.5	227.3	189.2	142.8	95.9	55.7	30.2	20.1	17.3
50°	335.3	305.3	274.1	240.5	200.5	151.9	100.9	56.0	28.1	18.8	16.2
52.5°	342.2	316.3	289.3	263.4	227.3	179.5	120.1	59.8	27.0	17.7	14.9
55°	383.1	378.5	379.2	383.4	355.6	305.5	200.9	86.4	31.7	20.1	14.7
57.5°	540.1	556.1	565.4	565.2	519.2	430.6	269.9	111.1	35.4	23.3	17.5
60°	746.6	734.5	717.5	675.4	614.2	491.5	301.8	119.4	30.7	18.6	16.0
62.5°	929.2	858.3	795.4	727.2	647.1	512.7	308.3	118.8	26.8	14.0	11.3
65°	1043.1	915.6	814.1	728.5	634.1	495.0	291.6	109.1	22.7	11.4	9.3
67.5°	1070.2	884.7	741.0	631.9	529.8	385.2	214.1	82.1	17.7	9.5	8.2
69°	1010.9	786.4	614.0	490.2	385.4	255.5	132.5	51.8	13.6	8.7	7.5
70°	929.9	684.0	500.1	393.4	285.4	179.5	92.7	36.5	11.0	8.0	6.9
72.5°	598.2	359.3	245.9	171.1	117.8	71.5	36.3	16.5	8.5	6.7	5.6
75°	232.0	132.8	96.4	73.2	57.2	39.7	22.0	10.6	7.2	5.6	4.3
77.5°	114.3	87.5	71.5	49.0	28.6	17.7	11.9	8.2	5.9	4.1	2.8
80°	90.3	60.1	35.9	22.2	16.8	12.7	9.1	6.7	4.3	2.6	2.0
82.5°	46.2	25.3	18.6	15.2	12.6	10.0	7.3	4.7	2.8	1.8	1.5
85°	14.5	10.6	9.5	9.3	8.7	7.2	5.2	3.1	1.8	1.1	1.1
87.5°	1.1	1.5	2.0	1.5	1.8	1.5	2.0	1.3	0.8	0.8	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°	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6	99.6
2.5°	90.7	88.2	85.8	84.3	81.5	80.4	79.3	78.9	76.9	77.3	75.6
5°	79.3	74.8	71.3	67.8	64.6	62.2	60.3	57.9	56.0	55.1	53.4
7.5°	68.9	63.1	58.5	54.9	51.0	48.0	45.4	43.6	42.0	40.2	39.3
10°	59.8	53.6	48.4	44.7	41.0	38.4	36.5	35.3	34.1	33.5	33.3
12.5°	51.4	45.4	40.7	37.4	34.6	33.3	32.4	31.7	31.5	31.3	31.3
15°	44.9	38.9	35.3	32.8	31.5	30.9	30.7	30.2	29.8	29.6	29.6
17.5°	38.9	34.3	31.7	30.4	29.8	29.4	28.9	28.6	28.1	27.9	27.9
20°	34.8	31.1	29.8	28.9	28.3	27.9	27.3	26.8	26.6	26.3	26.1
22.5°	31.5	29.2	28.3	27.6	26.8	26.1	25.7	25.3	24.8	24.7	24.4
25°	29.2	27.6	27.0	26.1	25.3	24.7	24.0	23.3	22.9	22.7	22.2
27.5°	27.4	26.3	25.5	24.4	23.5	22.9	22.2	21.6	21.2	20.7	20.6
30°	26.0	24.8	23.7	22.9	21.9	21.2	20.3	19.6	19.4	19.0	18.6
32.5°	24.4	23.3	22.2	21.2	20.1	19.3	18.8	18.0	17.5	17.3	16.8
35°	22.7	21.6	20.3	19.4	18.3	17.5	16.8	16.2	15.8	15.3	15.2
37.5°	21.2	19.9	18.6	17.5	16.7	15.8	15.2	14.5	14.0	13.6	13.4
40°	19.4	18.1	16.8	15.8	14.9	14.2	13.6	12.9	12.6	12.3	12.3
42.5°	18.0	16.5	15.2	14.2	13.6	12.7	12.1	11.4	11.3	11.0	11.3
45°	16.5	14.9	13.9	12.9	12.3	11.4	10.8	10.3	10.1	10.3	10.6
47.5°	15.2	13.6	12.6	11.9	11.3	10.6	10.0	9.5	9.5	10.0	10.3
50°	13.9	12.3	11.4	11.0	10.3	9.8	8.8	8.7	8.8	9.3	9.8
52.5°	12.6	10.8	10.1	10.0	9.3	8.7	8.0	7.8	8.0	8.5	8.2
55°	11.3	9.5	9.3	9.1	8.5	7.5	6.9	6.9	6.9	6.7	6.2
57.5°	10.8	8.5	8.2	8.0	7.3	6.5	6.0	5.6	5.4	4.7	4.6
60°	11.3	7.5	7.5	7.2	6.5	5.6	4.9	4.3	3.9	3.4	3.4
62.5°	9.1	6.9	6.7	6.2	5.4	4.6	3.9	3.3	3.1	2.8	2.8
65°	7.3	6.2	5.9	5.2	4.6	3.6	3.1	2.6	2.4	2.4	2.6
67.5°	6.7	5.6	4.9	4.3	3.6	2.8	2.4	2.1	2.1	2.4	2.4
69°	6.2	5.2	4.6	3.9	3.3	2.6	2.1	2.1	2.1	2.1	2.4
70°	5.9	4.9	4.3	3.6	2.8	2.1	2.0	2.0	2.1	2.1	2.4
72.5°	4.6	3.9	3.6	3.1	2.1	2.0	1.8	2.0	2.0	2.1	2.1
75°	3.4	2.8	2.8	2.4	1.8	1.5	1.5	1.8	1.8	2.0	2.0
77.5°	2.4	2.0	2.0	1.8	1.5	1.3	1.3	1.5	1.8	1.8	2.0
80°	1.8	1.5	1.3	1.5	1.3	1.1	1.3	1.5	1.5	1.8	1.8
82.5°	1.3	1.3	1.3	1.3	1.1	1.1	1.3	1.3	1.5	1.8	1.8
85°	1.1	1.1	1.1	1.1	1.1	1.1	1.1	1.3	1.3	1.5	1.5
87.5°	0.7	0.7	0.7	0.8	0.8	1.1	1.1	1.1	1.1	1.3	1.3
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°	99.6	99.6	99.6	99.6
2.5°	75.2	75.0	74.1	74.3
5°	52.7	51.4	52.3	52.1
7.5°	38.7	38.4	38.2	38.7
10°	33.0	33.0	32.8	33.0
12.5°	31.1	31.1	31.1	31.1
15°	29.6	29.6	29.4	29.4
17.5°	27.9	27.9	27.9	27.6
20°	26.1	26.0	26.0	26.0
22.5°	24.2	24.0	24.0	24.0
25°	22.2	22.0	22.0	22.0
27.5°	20.3	20.1	19.9	19.9
30°	18.3	18.1	18.0	18.0
32.5°	16.5	16.2	16.0	16.0
35°	14.7	14.7	14.5	14.2
37.5°	13.2	13.2	13.2	13.2
40°	12.1	12.3	12.3	12.3
42.5°	11.4	11.6	11.9	12.1
45°	11.0	11.4	11.6	11.6
47.5°	10.8	11.0	11.3	11.3
50°	10.0	9.8	9.8	9.8
52.5°	8.0	7.5	7.3	7.2
55°	5.9	5.6	5.2	5.2
57.5°	4.1	4.1	3.9	3.9
60°	3.3	3.3	3.1	3.3
62.5°	2.8	2.8	2.8	2.8
65°	2.6	2.6	2.6	2.6
67.5°	2.6	2.6	2.6	2.6
69°	2.4	2.4	2.4	2.4
70°	2.4	2.4	2.4	2.4
72.5°	2.1	2.1	2.1	2.1
75°	2.0	2.1	2.1	2.1
77.5°	2.0	2.0	2.0	2.0
80°	1.8	1.8	2.0	2.0
82.5°	1.8	1.8	1.8	1.8
85°	1.5	1.5	1.8	1.8
87.5°	1.3	1.3	1.5	1.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)