

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: P181517

Luminaire Tested: **ICM-E01-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181517
REPORT IS SCALED FROM IESNA LM-79-08 TEST DATA (P33725)
Test Lab: INNOVATION CENTER-P3
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: ICM-E01-LED-E1-T4-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1518.4 lumens
Efficiency: N/A
Efficacy: 61.5 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

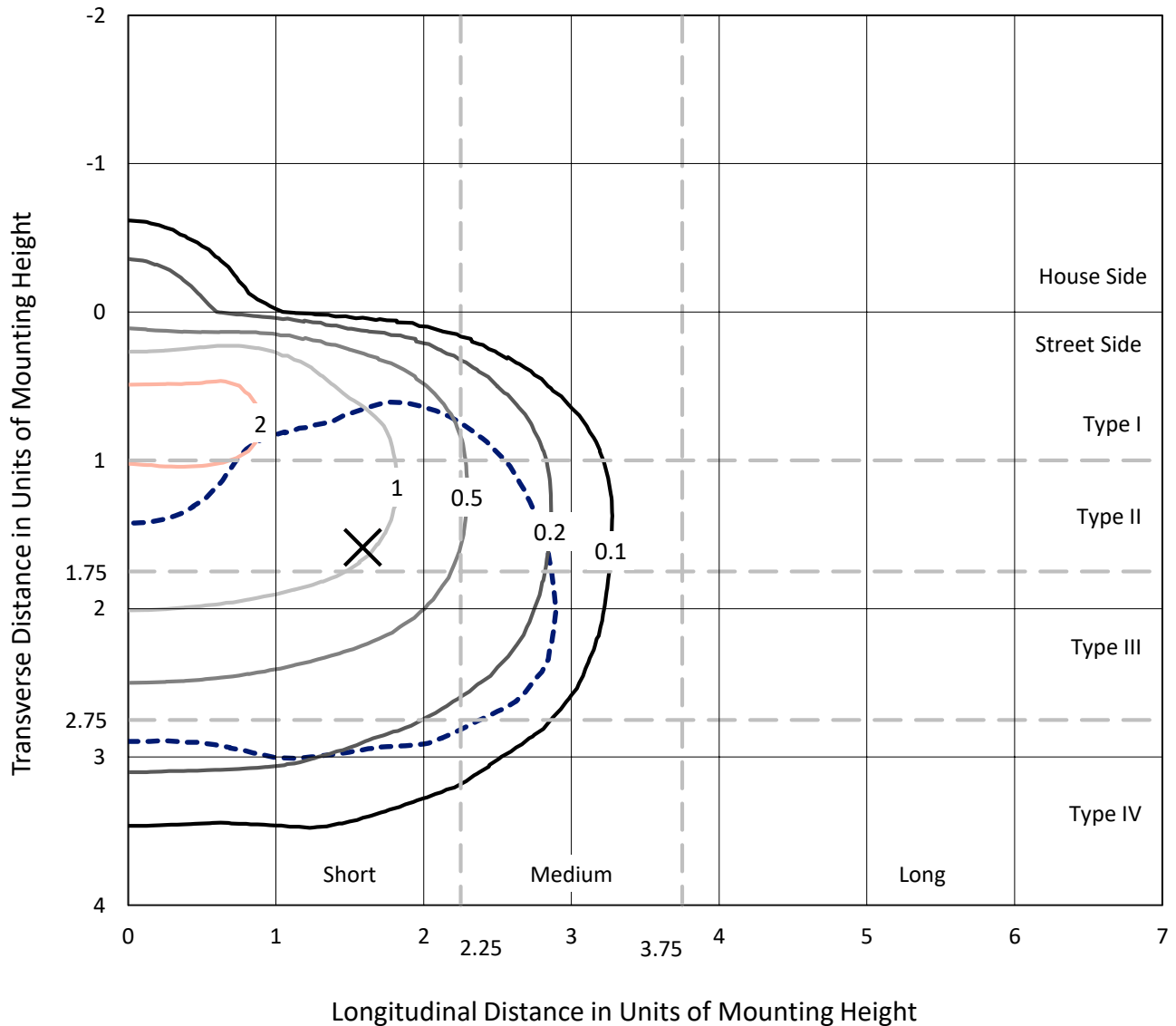
Input Watts (W): 24.7
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

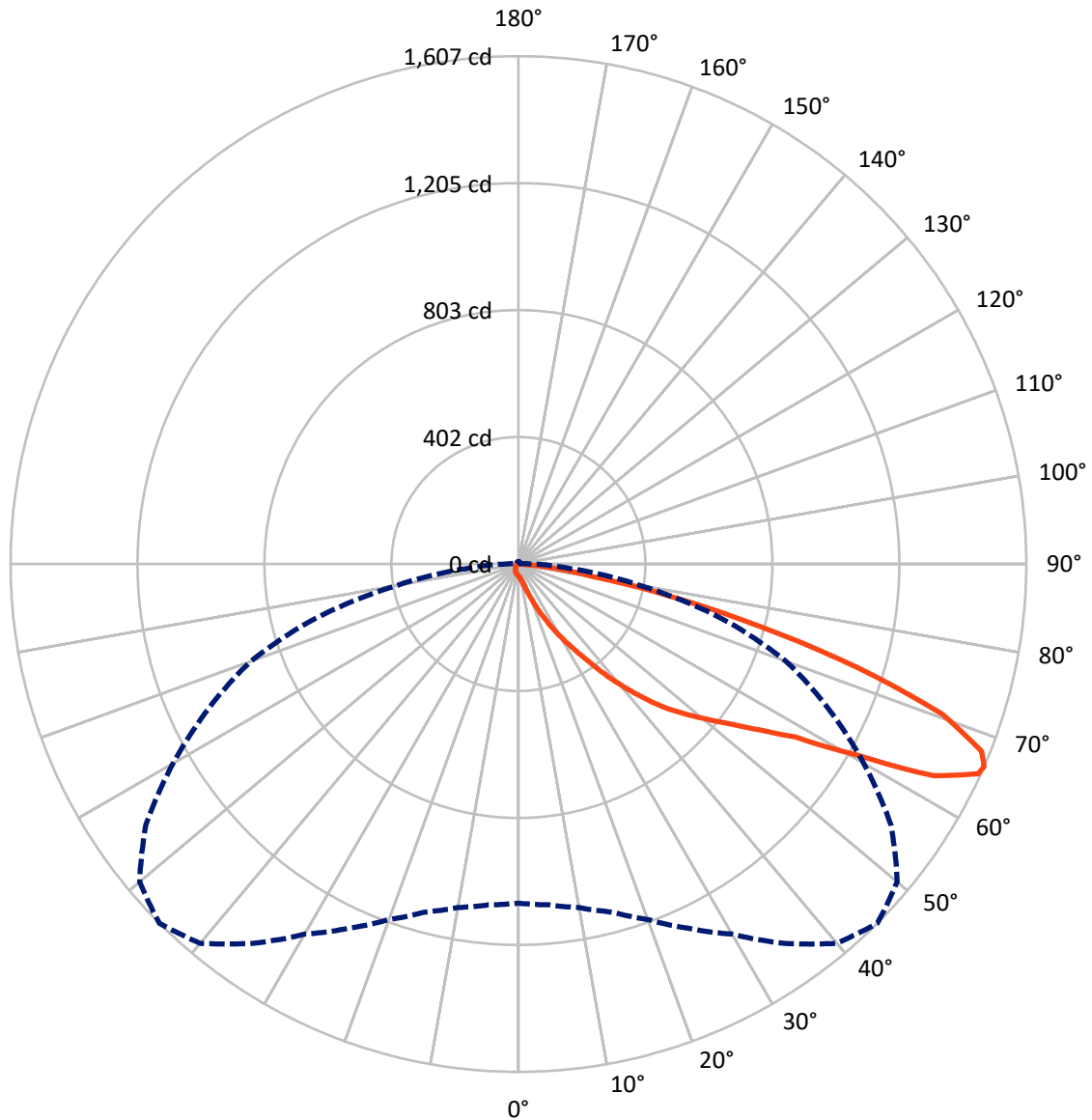
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



— Vertical Plane Through 45-Deg Lateral - - - Horizontal Cone Through 66-Deg Vertical

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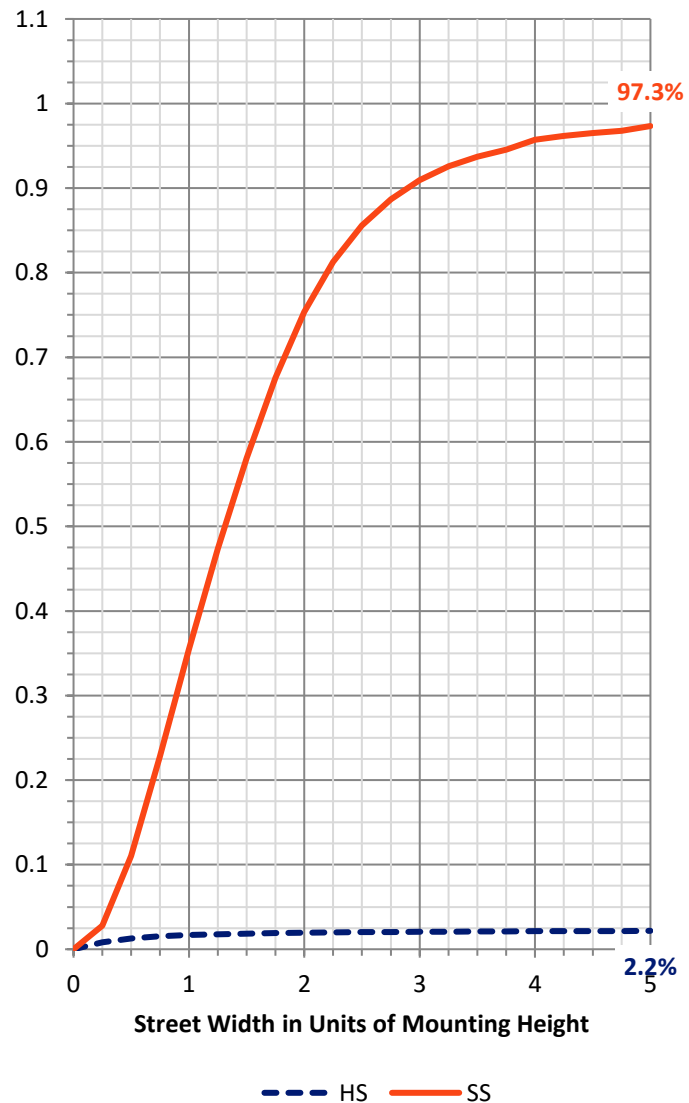
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	34.4	0.0	34.4
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	1484.0	0.0	1484.0
	% Fixture	97.7	0.0	97.7
Total	Lumens	1518.4	0.0	1518.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.8	0.3
10°-20°	15.5	1.0
20°-30°	45.4	3.0
30°-40°	106.0	7.0
40°-50°	199.0	13.1
50°-60°	329.9	21.7
60°-70°	523.6	34.5
70°-80°	270.8	17.8
80°-90°	24.5	1.6
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°	1518.4	100.0
0°-180°	1518.4	100.0



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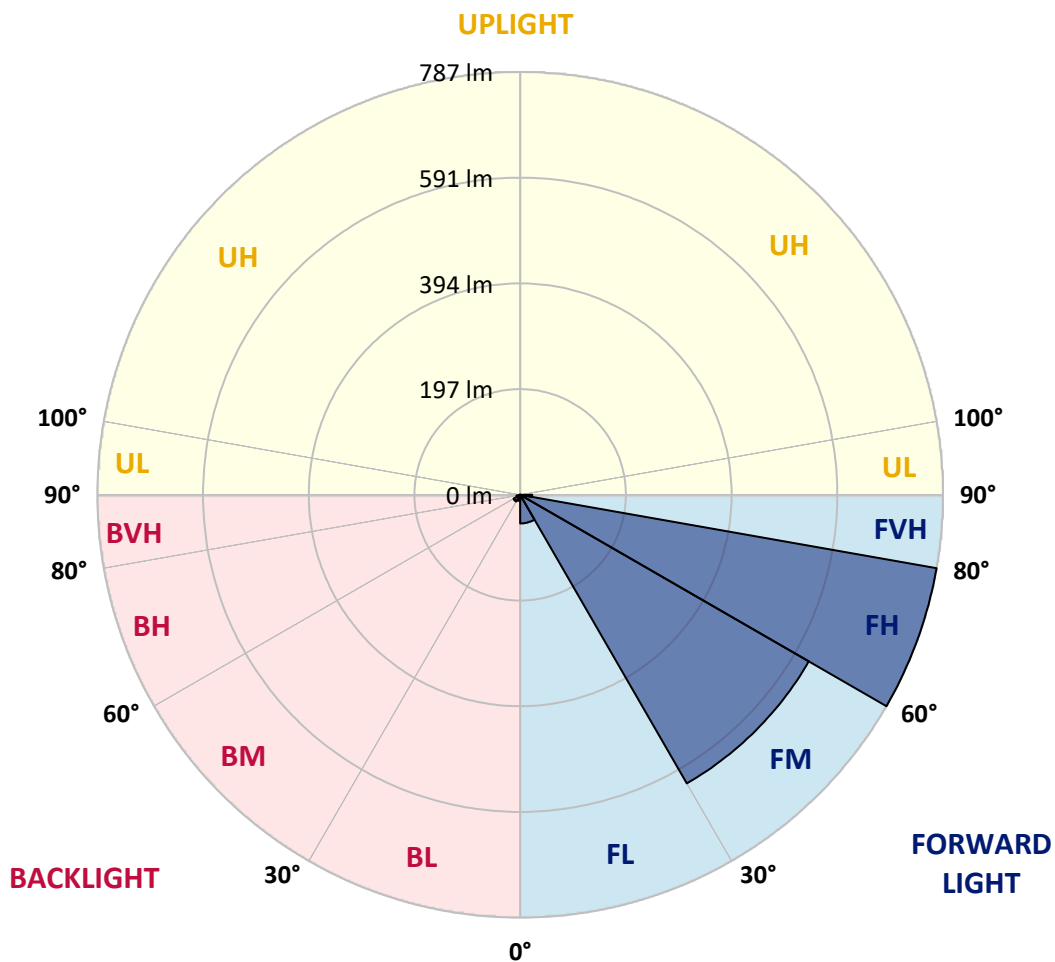
CATALOG NUMBER: ICM-E01-LED-E1-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	53.4	3.5			
FM	(30°-60°)	620.6	40.9			
FH	(60°-80°)	787.5	51.9			G1/1800
FVH	(80°-90°)	22.5	1.5			G1/100
BL	(0°-30°)	11.2	0.7	B0/110		
BM	(30°-60°)	14.3	0.9	B0/220		
BH	(60°-80°)	7.0	0.5	B0/110		G0/110
BVH	(80°-90°)	1.9	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°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	41.1	41.1	41.1	41.1	40.8	40.6	40.3	40.0	39.8	39.8	39.5
5°	46.6	46.9	46.6	46.3	45.8	45.6	44.7	44.2	43.4	43.2	42.4
7.5°	54.1	54.0	54.1	53.4	52.4	52.1	51.1	49.8	48.7	47.1	46.0
10°	65.2	64.9	65.2	63.6	62.0	60.7	58.9	57.3	55.0	53.1	51.1
12.5°	82.7	82.7	82.1	80.1	78.0	75.1	72.2	68.8	64.7	60.9	57.6
15°	109.7	108.4	106.0	104.7	101.0	96.6	93.4	86.6	80.6	74.9	68.0
17.5°	142.1	139.4	137.7	134.8	130.0	124.3	119.1	109.1	103.1	93.7	84.0
20°	179.3	176.1	175.6	171.2	166.1	159.9	152.3	140.6	130.3	118.5	104.9
22.5°	217.2	217.8	215.6	212.5	207.5	200.2	188.5	177.7	165.1	150.2	132.7
25°	259.6	259.4	257.5	253.9	250.2	241.0	231.6	221.4	206.5	187.3	166.4
27.5°	299.4	299.2	294.7	295.0	287.9	284.5	275.4	264.3	246.2	230.3	207.5
30°	341.0	338.4	335.5	333.4	328.5	322.4	317.7	304.7	291.0	272.2	253.6
32.5°	383.2	380.3	381.0	378.4	374.5	368.5	361.4	350.7	336.0	317.7	300.5
35°	434.7	433.4	431.3	432.1	431.3	426.8	420.8	406.7	390.7	373.2	355.4
37.5°	472.9	471.6	472.9	478.4	479.7	482.6	478.1	471.1	459.5	440.5	421.9
40°	508.2	508.5	514.5	521.3	526.0	535.4	537.0	534.1	524.9	507.4	483.1
42.5°	539.9	543.8	549.3	560.6	570.8	584.1	594.1	595.6	588.8	577.3	552.7
45°	575.3	578.6	587.3	600.7	614.7	631.3	647.2	655.5	655.1	646.9	620.5
47.5°	614.7	619.2	628.7	639.6	658.4	677.0	697.7	712.7	718.9	707.6	682.0
50°	662.6	664.5	672.6	686.7	704.0	725.4	747.9	769.7	782.0	771.5	745.0
52.5°	719.4	719.9	727.5	740.7	754.5	778.1	800.0	830.1	846.1	840.4	808.7
55°	797.4	795.8	801.1	812.3	823.5	846.3	868.4	902.3	925.7	926.1	892.4
57.5°	903.9	900.3	903.6	912.6	925.1	946.3	974.1	1004.2	1035.3	1033.2	1005.5
60°	1052.3	1051.0	1057.3	1072.2	1093.7	1115.6	1147.1	1187.6	1215.1	1224.5	1195.4
62.5°	1151.0	1154.6	1169.0	1192.1	1233.4	1279.0	1337.3	1399.4	1451.6	1475.3	1435.2
65°	1108.6	1114.6	1137.1	1171.2	1225.9	1294.1	1371.6	1473.4	1563.6	1599.5	1558.0
66°	1072.8	1082.4	1103.6	1139.7	1196.8	1271.4	1352.2	1464.8	1566.3	1606.6	1564.2
67.5°	1010.7	1017.5	1041.6	1081.6	1142.9	1216.7	1304.1	1422.9	1537.5	1580.2	1538.1
70°	884.3	886.9	906.5	940.6	987.9	1063.5	1142.9	1257.2	1362.7	1422.6	1376.6
72.5°	658.1	661.9	694.3	756.3	817.9	860.7	907.6	999.2	1067.3	1123.3	1114.3
75°	316.7	318.2	339.9	430.5	550.3	601.7	645.1	716.0	742.0	788.7	781.7
77.5°	200.7	204.1	218.2	240.3	308.3	369.3	403.5	444.1	451.7	491.3	468.2
80°	55.3	64.1	78.2	115.2	197.6	235.5	251.0	249.4	251.0	239.0	231.1
82.5°	11.3	11.0	13.3	20.7	87.2	137.1	148.1	126.1	125.4	120.7	124.6
85°	2.9	2.6	3.2	6.5	14.9	40.6	51.1	28.6	21.8	20.7	18.3
87.5°	0.7	0.7	0.7	1.3	1.6	2.1	2.9	2.1	1.6	1.6	1.6
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°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	39.3	39.3	39.0	38.7	38.7	38.5	38.2	38.0	37.7	37.4	37.1
5°	41.6	41.1	40.3	39.8	39.3	38.5	38.0	37.4	36.9	36.7	36.1
7.5°	44.7	43.4	42.4	40.8	39.8	38.7	37.7	36.9	36.1	35.6	35.1
10°	48.7	46.6	44.5	42.4	40.6	39.0	37.4	36.1	35.3	34.5	34.0
12.5°	53.7	50.5	47.6	44.5	41.6	39.3	37.1	35.6	34.5	33.8	32.9
15°	61.8	56.7	51.8	47.1	43.4	39.8	36.9	35.1	33.8	32.9	32.2
17.5°	74.6	65.7	57.9	51.3	45.3	40.6	36.9	34.5	32.9	31.9	31.2
20°	93.2	78.5	66.0	56.6	48.7	41.9	36.9	33.8	32.2	30.9	30.1
22.5°	115.2	96.8	79.5	63.8	52.6	43.7	36.9	32.9	31.2	30.1	29.0
25°	147.3	123.0	99.4	77.5	59.2	46.6	37.7	32.5	30.3	29.0	28.0
27.5°	185.0	155.7	126.4	95.5	69.1	50.8	38.7	31.9	29.6	28.0	27.0
30°	227.9	195.5	159.6	119.6	82.1	56.3	40.6	31.6	28.6	27.0	25.7
32.5°	274.5	240.3	201.0	150.5	101.6	64.7	42.9	31.4	27.4	25.7	24.1
35°	330.0	298.0	250.2	194.0	131.6	79.1	48.2	31.9	26.4	24.4	22.5
37.5°	390.7	356.7	306.0	240.0	161.5	95.3	52.1	31.2	24.6	22.5	20.7
40°	452.0	412.9	361.4	288.4	199.4	115.2	57.0	30.3	22.8	20.7	18.9
42.5°	511.6	470.5	414.5	338.1	239.4	138.7	63.3	30.3	21.5	18.9	17.0
45°	574.1	524.7	463.4	385.8	279.3	165.7	72.2	30.1	19.9	17.3	15.2
47.5°	633.3	574.7	504.3	427.6	321.9	195.3	82.4	30.3	18.6	15.7	13.9
50°	689.3	622.1	546.1	465.0	362.7	227.2	95.0	30.6	17.3	14.4	12.6
52.5°	750.6	676.0	591.2	503.5	403.0	259.4	109.7	31.2	16.0	13.1	11.5
55°	826.4	743.7	646.7	550.6	445.7	291.8	123.8	31.6	14.7	12.0	10.5
57.5°	935.8	841.7	736.7	621.3	502.2	328.7	138.4	32.9	13.6	11.3	9.7
60°	1113.8	1001.6	880.4	744.3	586.7	378.7	159.6	35.8	12.3	10.2	9.1
62.5°	1327.9	1192.8	1038.7	873.6	666.3	412.5	173.8	39.0	11.3	9.4	8.7
65°	1435.7	1265.6	1087.9	909.7	676.5	402.5	168.0	38.0	10.0	8.4	7.3
66°	1438.9	1261.7	1081.1	901.9	666.1	390.4	162.5	37.4	9.7	8.1	6.8
67.5°	1409.0	1227.9	1045.0	866.2	635.2	367.2	152.6	35.6	8.9	7.3	6.0
70°	1261.7	1085.3	917.5	752.4	546.4	309.3	128.0	31.4	7.8	6.5	5.5
72.5°	1005.8	862.1	720.7	592.0	424.7	232.1	101.0	25.7	6.8	5.8	4.7
75°	702.4	584.4	476.8	384.9	267.0	139.0	65.4	18.0	5.8	4.7	3.9
77.5°	392.0	310.9	235.0	179.0	106.5	43.4	21.8	9.1	4.9	3.6	3.2
80°	199.4	147.9	112.6	83.0	49.2	22.5	11.0	6.0	3.9	2.9	2.6
82.5°	115.9	85.0	67.8	53.7	33.8	17.0	8.9	4.5	2.6	2.1	2.3
85°	26.0	34.3	29.0	24.6	18.0	10.7	6.3	2.9	1.9	1.9	2.1
87.5°	2.1	2.9	2.6	3.4	3.6	3.4	2.6	1.6	1.3	1.6	1.6
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°	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0	38.0
2.5°	36.9	36.7	36.7	36.4	36.1	36.1	36.1	35.8	36.1	36.1	36.1
5°	35.8	35.6	35.3	35.1	34.8	34.5	34.5	34.3	34.3	34.3	34.5
7.5°	34.8	34.3	34.0	33.5	33.2	32.9	32.9	32.7	32.7	32.7	32.7
10°	33.5	32.9	32.5	32.2	31.9	31.4	31.4	31.2	30.9	30.9	30.9
12.5°	32.5	31.9	31.4	30.9	30.3	30.1	29.9	29.6	29.3	29.3	29.3
15°	31.4	30.6	30.1	29.6	29.0	28.6	28.3	28.0	27.7	27.4	27.4
17.5°	30.3	29.6	28.7	28.3	27.7	27.3	27.0	26.1	26.1	26.0	26.0
20°	29.0	28.3	27.4	27.0	26.4	26.0	25.4	24.8	24.4	24.1	24.1
22.5°	28.0	27.3	26.4	25.7	24.8	24.1	23.5	23.1	22.8	22.5	22.2
25°	27.0	26.0	24.8	24.1	23.3	22.5	22.0	21.5	20.9	20.7	20.7
27.5°	25.7	24.6	23.5	22.5	21.8	20.9	20.4	19.6	19.3	19.1	18.9
30°	24.4	23.1	22.0	20.9	20.2	19.1	18.6	18.0	17.5	17.5	17.3
32.5°	22.8	21.5	20.4	19.3	18.3	17.5	17.0	16.5	16.2	15.7	15.7
35°	21.2	19.9	18.6	17.5	16.7	16.0	15.4	14.9	14.4	14.1	14.1
37.5°	19.3	18.0	17.0	16.0	15.2	14.4	13.9	13.3	13.1	12.8	12.6
40°	17.3	16.0	15.2	14.4	13.6	13.1	12.3	11.8	11.5	11.3	11.0
42.5°	15.4	14.1	13.6	13.1	12.3	11.8	11.0	10.5	10.0	9.7	9.4
45°	13.9	12.8	12.3	11.8	11.0	10.2	9.7	9.1	8.7	8.4	8.4
47.5°	12.3	11.5	11.0	10.5	9.7	9.1	8.4	8.1	7.6	7.6	7.6
50°	11.3	10.5	10.0	9.4	8.9	8.1	7.6	7.3	7.1	7.1	7.3
52.5°	10.5	9.7	9.1	8.7	8.1	7.6	7.1	6.8	6.8	7.1	7.3
55°	9.7	8.9	8.4	7.8	7.3	7.1	6.5	6.5	6.8	7.1	7.3
57.5°	9.1	8.1	7.6	7.3	6.8	6.5	6.5	6.5	6.8	7.1	7.6
60°	8.4	7.3	6.8	6.8	6.3	6.3	6.3	6.5	6.8	7.3	7.6
62.5°	7.3	6.5	6.3	6.3	6.0	6.0	6.3	6.5	7.1	7.3	7.6
65°	6.3	5.8	5.8	5.8	5.8	6.0	6.3	6.5	6.8	7.3	7.6
66°	5.8	5.5	5.5	5.8	5.8	6.0	6.3	6.5	6.8	7.1	7.3
67.5°	5.5	5.2	5.2	5.5	5.8	5.8	6.0	6.5	6.8	7.1	7.1
70°	4.7	4.7	4.7	5.2	5.5	5.8	6.0	6.3	6.5	6.8	7.1
72.5°	4.2	4.2	4.5	4.7	5.2	5.5	5.8	6.0	6.5	6.8	6.8
75°	3.6	3.6	4.2	4.5	4.9	5.2	5.8	6.0	6.3	6.5	6.5
77.5°	3.2	3.4	3.9	4.5	4.7	5.2	5.5	5.8	6.0	6.3	6.3
80°	2.9	3.4	3.9	4.2	4.5	4.7	4.9	5.5	5.8	6.0	6.3
82.5°	2.9	3.2	3.6	3.9	4.2	4.7	4.9	5.2	5.5	5.8	6.0
85°	2.3	2.9	3.2	3.6	3.9	4.5	4.7	4.7	4.9	5.2	5.5
87.5°	1.9	2.1	2.1	2.6	2.9	3.4	3.9	3.9	4.2	4.5	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):

	165°	170°	175°	180°
0°	38.0	38.0	38.0	38.0
2.5°	36.1	36.4	36.4	36.4
5°	34.5	34.5	34.5	34.5
7.5°	32.7	32.7	32.7	32.7
10°	30.9	30.9	31.2	30.9
12.5°	29.3	29.0	29.0	29.0
15°	27.4	27.4	27.3	27.4
17.5°	25.7	25.7	25.4	25.4
20°	23.8	23.8	23.8	23.8
22.5°	22.2	22.0	22.0	22.0
25°	20.4	20.4	20.4	20.4
27.5°	18.9	18.9	18.9	18.9
30°	17.3	17.3	17.0	17.0
32.5°	15.7	15.7	15.7	15.7
35°	14.1	14.1	13.9	13.9
37.5°	12.3	12.3	12.3	12.3
40°	10.7	10.7	10.7	10.7
42.5°	9.4	9.4	9.1	9.1
45°	8.1	8.1	8.1	8.1
47.5°	7.6	7.6	7.6	7.6
50°	7.3	7.6	7.6	7.6
52.5°	7.6	7.6	7.6	7.6
55°	7.6	7.8	7.8	7.8
57.5°	7.6	7.8	7.8	8.1
60°	7.8	8.1	8.1	8.1
62.5°	7.8	8.1	8.1	8.1
65°	7.6	7.8	7.8	7.8
66°	7.6	7.6	7.6	7.8
67.5°	7.3	7.6	7.6	7.6
70°	7.1	7.3	7.3	7.6
72.5°	7.1	7.3	7.3	7.3
75°	6.8	6.8	7.1	7.1
77.5°	6.5	6.5	6.8	6.8
80°	6.3	6.5	6.5	6.5
82.5°	6.0	6.3	6.3	6.3
85°	5.5	5.8	5.8	5.8
87.5°	4.7	4.7	4.9	4.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)