

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: P181584

Luminaire Tested: **ICS-F01-LED-E1-T4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181584
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: ICS-F01-LED-E1-T4-HSS
Description: ICON SITE SMALL LED LUMINAIRE
(1) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (7) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1437 lumens
Efficiency: N/A
Efficacy: 55.5 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

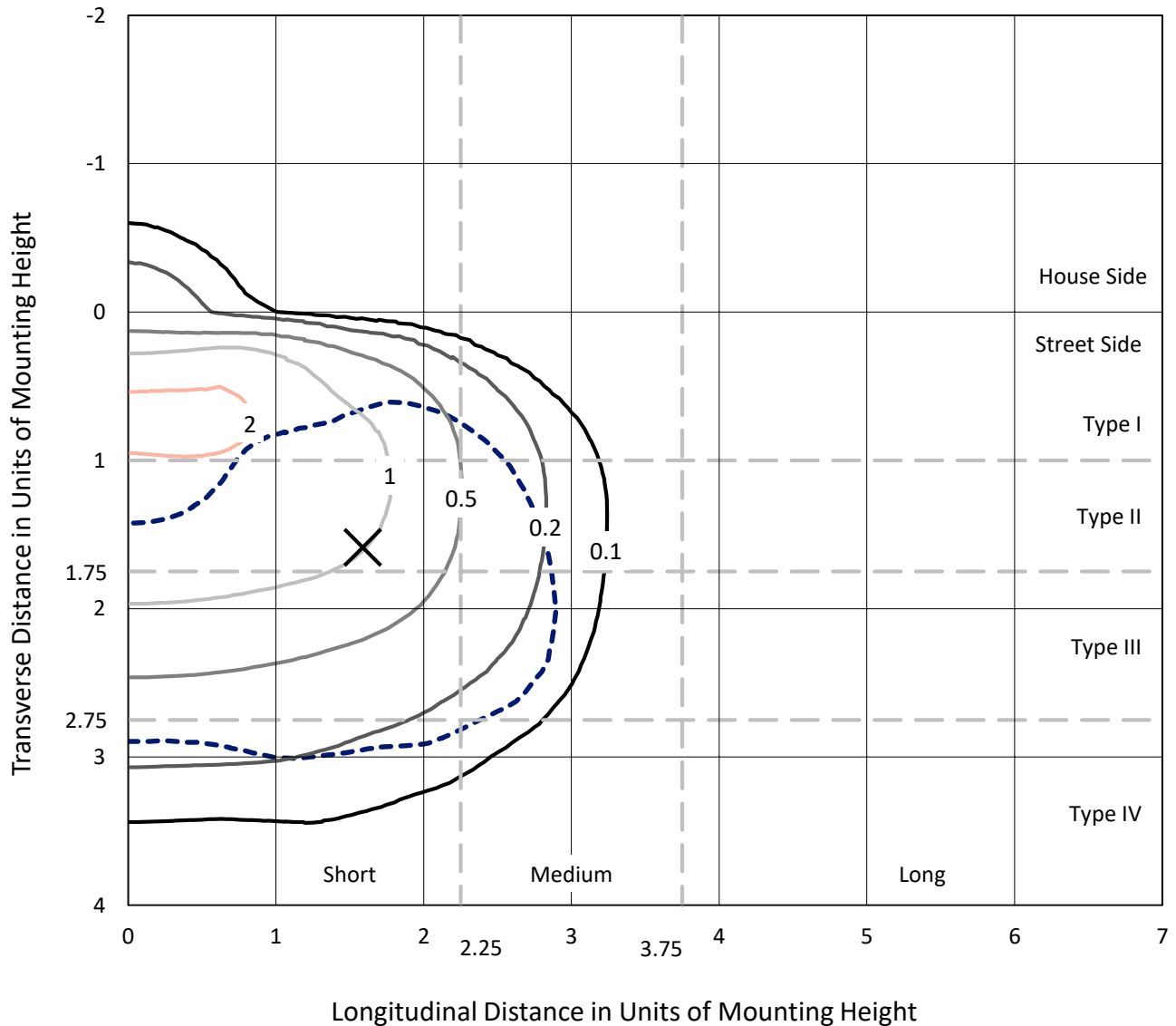
Input Watts (W): 25.9
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

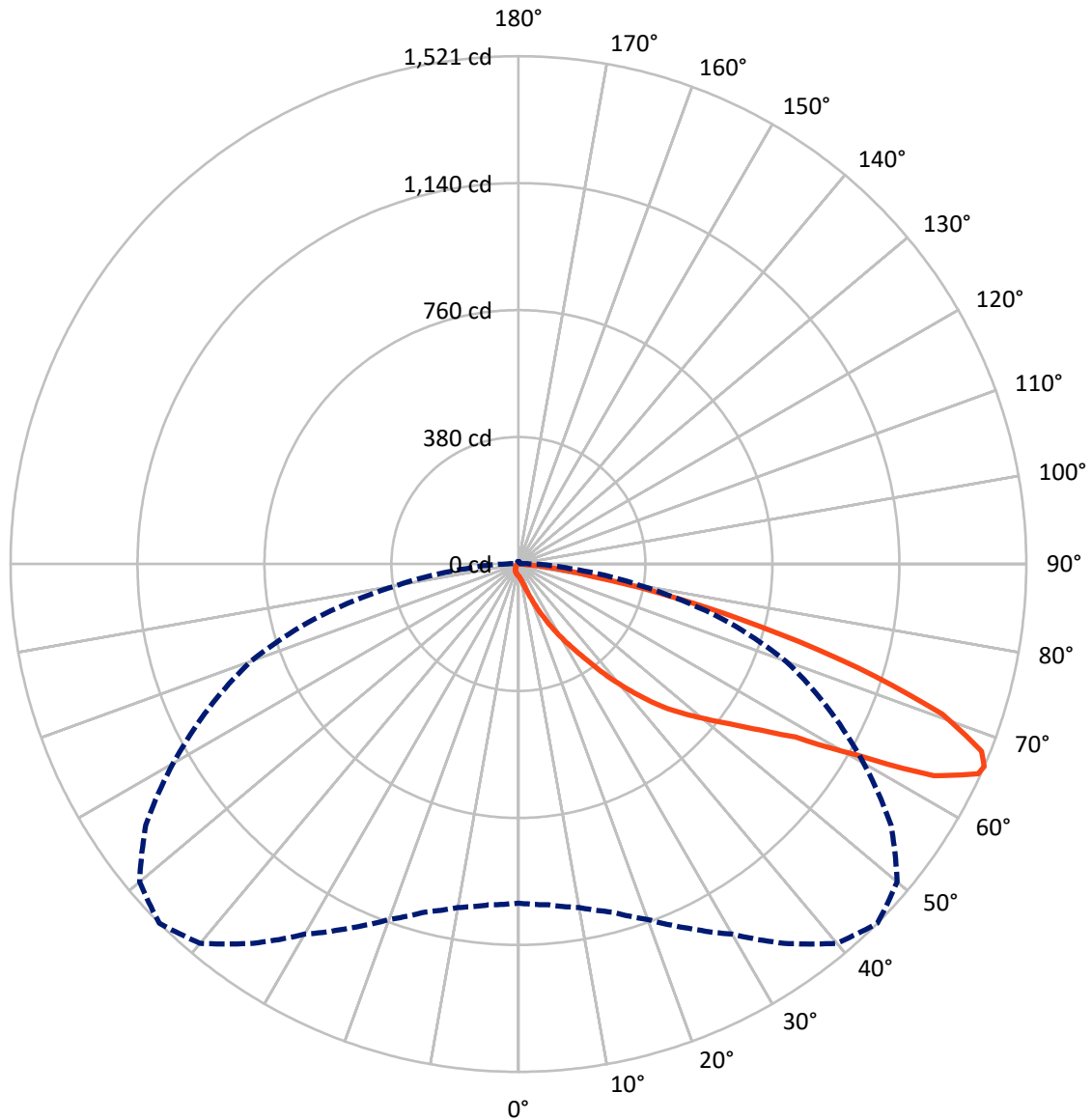


Based on 10 foot mounting height. Maximum calculated value = 2.3 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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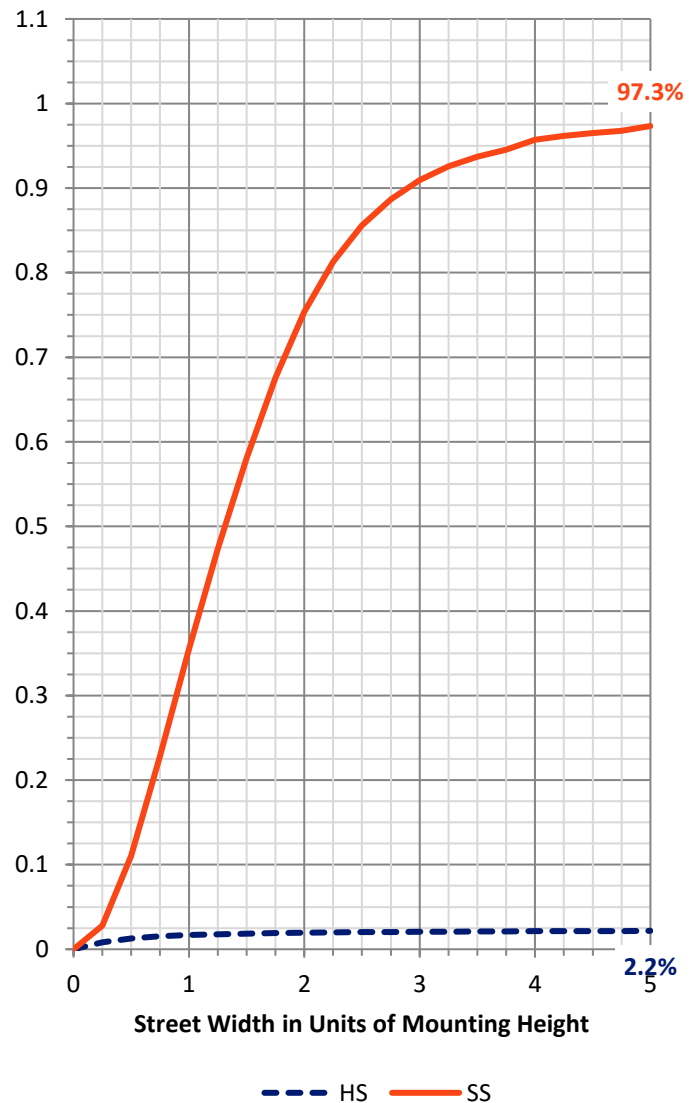
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	32.6	0.0	32.6
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	1404.4	0.0	1404.4
	% Fixture	97.7	0.0	97.7
Total	Lumens	1437.0	0.0	1437.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.6	0.3
10°-20°	14.7	1.0
20°-30°	42.9	3.0
30°-40°	100.3	7.0
40°-50°	188.4	13.1
50°-60°	312.2	21.7
60°-70°	495.6	34.5
70°-80°	256.3	17.8
80°-90°	23.1	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°	1437.0	100.0
0°-180°	1437.0	100.0



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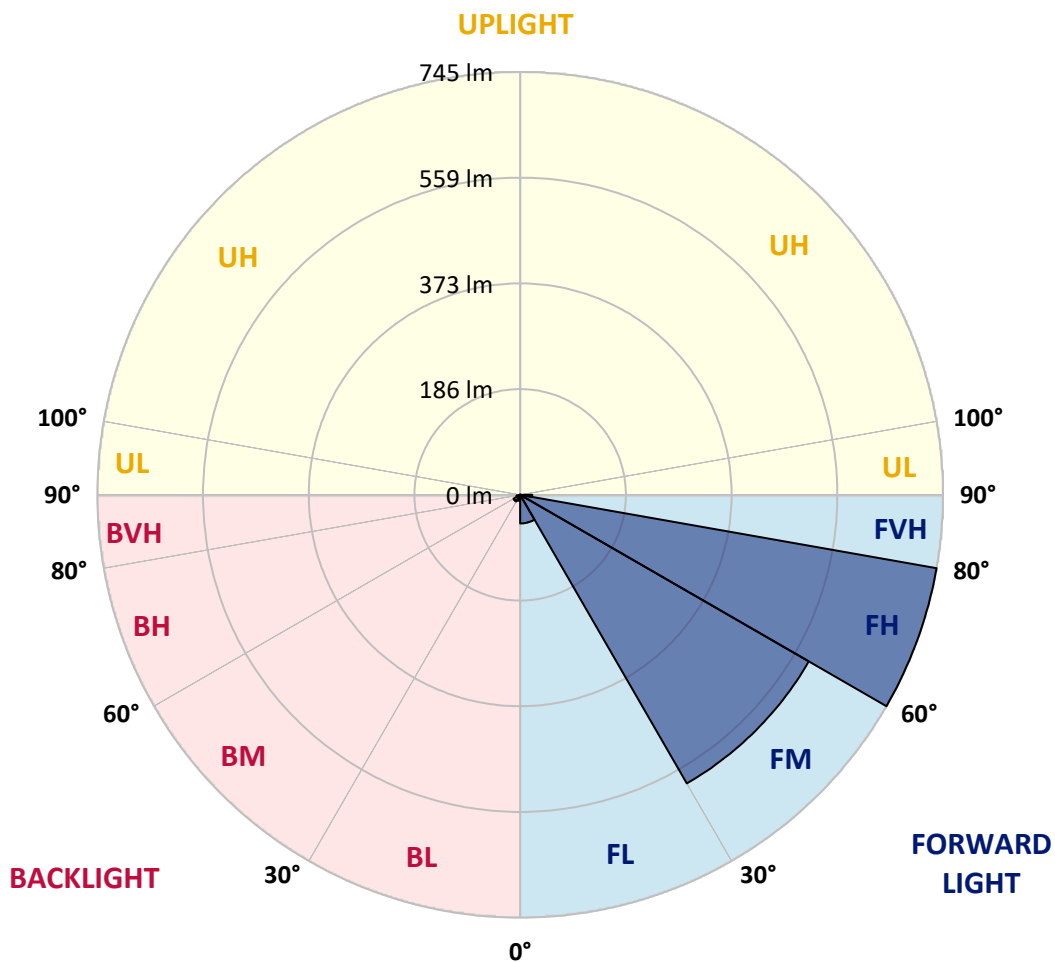
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	50.6	3.5			
FM (30°-60°)	587.3	40.9			
FH (60°-80°)	745.2	51.9			G1/1800
FVH (80°-90°)	21.3	1.5			G1/100
BL (0°-30°)	10.6	0.7	B0/110		
BM (30°-60°)	13.5	0.9	B0/220		
BH (60°-80°)	6.6	0.5	B0/110		G0/110
BVH (80°-90°)	1.8	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°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
2.5°	38.9	38.9	38.9	38.9	38.6	38.4	38.1	37.9	37.6	37.6	37.4
5°	44.1	44.3	44.1	43.8	43.3	43.1	42.4	41.9	41.1	40.9	40.1
7.5°	51.3	51.0	51.3	50.5	49.5	49.3	48.3	47.1	46.1	44.6	43.6
10°	61.7	61.4	61.7	60.2	58.7	57.5	55.7	54.2	52.0	50.3	48.3
12.5°	78.3	78.3	77.8	75.8	73.8	71.1	68.4	65.1	61.2	57.7	54.5
15°	103.8	102.5	100.3	99.1	95.6	91.4	88.4	82.0	76.3	70.8	64.4
17.5°	134.5	132.0	130.3	127.6	123.1	117.6	112.7	103.3	97.6	88.7	79.5
20°	169.7	166.7	166.2	162.0	157.3	151.3	144.1	133.0	123.3	112.2	99.3
22.5°	205.6	206.1	204.1	201.1	196.4	189.5	178.3	168.2	156.3	142.2	125.6
25°	245.7	245.4	243.7	240.2	236.8	228.1	219.2	209.5	195.4	177.3	157.5
27.5°	283.3	283.1	278.9	279.1	272.4	269.2	260.5	250.1	233.1	218.0	196.4
30°	322.7	320.2	317.5	315.5	310.8	305.1	300.7	288.3	275.4	257.6	240.0
32.5°	362.6	359.9	360.6	358.1	354.4	348.7	342.0	331.9	318.0	300.7	284.3
35°	411.4	410.1	408.2	408.9	408.2	404.0	398.3	384.9	369.8	353.2	336.3
37.5°	447.5	446.3	447.5	452.7	454.0	456.7	452.5	445.8	434.9	416.8	399.2
40°	481.0	481.2	486.9	493.4	497.8	506.7	508.2	505.5	496.8	480.2	457.2
42.5°	510.9	514.7	519.9	530.5	540.2	552.8	562.2	563.7	557.3	546.4	523.1
45°	544.4	547.6	555.8	568.4	581.8	597.4	612.5	620.4	619.9	612.2	587.2
47.5°	581.8	586.0	594.9	605.3	623.1	640.7	660.3	674.4	680.4	669.7	645.4
50°	627.1	628.8	636.5	649.9	666.2	686.5	707.8	728.4	740.0	730.1	705.1
52.5°	680.8	681.3	688.5	700.9	714.0	736.3	757.1	785.6	800.7	795.3	765.3
55°	754.7	753.2	758.1	768.8	779.4	801.0	821.8	854.0	876.0	876.5	844.6
57.5°	855.5	852.0	855.2	863.6	875.5	895.6	921.8	950.3	979.8	977.8	951.6
60°	995.9	994.6	1000.6	1014.7	1035.0	1055.8	1085.5	1123.9	1149.9	1158.9	1131.4
62.5°	1089.3	1092.7	1106.3	1128.1	1167.3	1210.4	1265.6	1324.3	1373.8	1396.1	1358.2
65°	1049.1	1054.8	1076.1	1108.3	1160.1	1224.7	1298.0	1394.4	1479.8	1513.8	1474.4
66°	1015.2	1024.4	1044.4	1078.6	1132.6	1203.2	1279.7	1386.2	1482.3	1520.5	1480.3
67.5°	956.5	962.9	985.7	1023.6	1081.6	1151.4	1234.1	1346.6	1455.1	1495.4	1455.6
70°	836.9	839.4	857.9	890.1	935.0	1006.5	1081.6	1189.8	1289.6	1346.3	1302.7
72.5°	622.9	626.4	657.1	715.8	774.0	814.6	858.9	945.6	1010.0	1063.0	1054.6
75°	299.7	301.2	321.7	407.4	520.9	569.4	610.5	677.6	702.1	746.5	739.8
77.5°	190.0	193.2	206.6	227.4	291.8	349.5	381.9	420.3	427.5	464.9	443.1
80°	52.3	60.7	74.1	109.0	187.0	222.9	237.5	236.0	237.5	226.1	218.7
82.5°	10.6	10.4	12.6	19.6	82.5	129.8	140.2	119.4	118.6	114.2	117.9
85°	2.7	2.5	3.0	6.2	14.1	38.4	48.3	27.0	20.6	19.6	17.3
87.5°	0.7	0.7	0.7	1.2	1.5	2.0	2.7	2.0	1.5	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
2.5°	37.2	37.2	36.9	36.7	36.7	36.4	36.2	35.9	35.7	35.4	35.2
5°	39.4	38.9	38.1	37.6	37.2	36.4	35.9	35.4	34.9	34.7	34.2
7.5°	42.4	41.1	40.1	38.6	37.6	36.7	35.7	34.9	34.2	33.7	33.2
10°	46.1	44.1	42.1	40.1	38.4	36.9	35.4	34.2	33.4	32.7	32.2
12.5°	50.8	47.8	45.1	42.1	39.4	37.2	35.2	33.7	32.7	31.9	31.2
15°	58.5	53.7	49.0	44.6	41.1	37.6	34.9	33.2	31.9	31.2	30.5
17.5°	70.6	62.2	54.7	48.5	42.8	38.4	34.9	32.7	31.2	30.2	29.5
20°	88.2	74.3	62.4	53.5	46.1	39.6	34.9	31.9	30.5	29.2	28.5
22.5°	109.0	91.6	75.3	60.4	49.8	41.4	34.9	31.2	29.5	28.5	27.5
25°	139.4	116.4	94.1	73.3	56.0	44.1	35.7	30.7	28.7	27.5	26.5
27.5°	175.1	147.4	119.6	90.4	65.4	48.0	36.7	30.2	28.0	26.5	25.5
30°	215.7	185.0	151.1	113.2	77.8	53.2	38.4	30.0	27.0	25.5	24.3
32.5°	259.8	227.4	190.2	142.4	96.1	61.2	40.6	29.7	26.0	24.3	22.8
35°	312.3	282.1	236.8	183.5	124.6	74.8	45.6	30.2	25.0	23.0	21.3
37.5°	369.8	337.6	289.5	227.1	152.8	90.2	49.3	29.5	23.3	21.3	19.6
40°	427.7	390.8	342.0	272.9	188.7	109.0	54.0	28.7	21.5	19.6	17.8
42.5°	484.2	445.3	392.3	320.0	226.6	131.3	59.9	28.7	20.3	17.8	16.1
45°	543.4	496.6	438.6	365.1	264.3	156.8	68.4	28.5	18.8	16.3	14.4
47.5°	599.4	543.9	477.3	404.7	304.6	184.8	78.0	28.7	17.6	14.9	13.1
50°	652.4	588.7	516.9	440.1	343.3	215.0	89.9	29.0	16.3	13.6	11.9
52.5°	710.3	639.7	559.5	476.5	381.4	245.4	103.8	29.5	15.1	12.4	10.9
55°	782.1	703.9	612.0	521.1	421.8	276.2	117.1	30.0	13.9	11.4	9.9
57.5°	885.7	796.5	697.2	588.0	475.3	311.1	131.0	31.2	12.9	10.6	9.2
60°	1054.1	947.8	833.2	704.4	555.3	358.4	151.1	33.9	11.6	9.7	8.7
62.5°	1256.7	1128.9	983.0	826.7	630.6	390.3	164.5	36.9	10.6	8.9	8.2
65°	1358.7	1197.7	1029.6	860.9	640.2	380.9	159.0	35.9	9.4	7.9	6.9
66°	1361.7	1194.0	1023.1	853.5	630.3	369.5	153.8	35.4	9.2	7.7	6.4
67.5°	1333.5	1162.1	989.0	819.8	601.1	347.5	144.4	33.7	8.4	6.9	5.7
70°	1194.0	1027.1	868.3	712.1	517.1	292.7	121.1	29.7	7.4	6.2	5.2
72.5°	951.8	815.8	682.1	560.2	402.0	219.7	95.6	24.3	6.4	5.4	4.5
75°	664.7	553.0	451.3	364.3	252.6	131.5	61.9	17.1	5.4	4.5	3.7
77.5°	371.0	294.2	222.4	169.4	100.8	41.1	20.6	8.7	4.7	3.5	3.0
80°	188.7	139.9	106.5	78.5	46.6	21.3	10.4	5.7	3.7	2.7	2.5
82.5°	109.7	80.5	64.1	50.8	31.9	16.1	8.4	4.2	2.5	2.0	2.2
85°	24.5	32.4	27.5	23.3	17.1	10.2	5.9	2.7	1.7	1.7	2.0
87.5°	2.0	2.7	2.5	3.2	3.5	3.2	2.5	1.5	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9	35.9
2.5°	34.9	34.7	34.7	34.4	34.2	34.2	34.2	33.9	34.2	34.2	34.2
5°	33.9	33.7	33.4	33.2	32.9	32.7	32.7	32.4	32.4	32.4	32.7
7.5°	32.9	32.4	32.2	31.7	31.5	31.2	31.2	31.0	31.0	31.0	31.0
10°	31.7	31.2	30.7	30.5	30.2	29.7	29.7	29.5	29.2	29.2	29.2
12.5°	30.7	30.2	29.7	29.2	28.7	28.5	28.2	28.0	27.7	27.7	27.7
15°	29.7	29.0	28.5	28.0	27.5	27.0	26.7	26.5	26.3	26.0	26.0
17.5°	28.7	28.0	27.2	26.7	26.3	25.8	25.5	24.8	24.8	24.5	24.5
20°	27.5	26.7	26.0	25.5	25.0	24.5	24.0	23.5	23.0	22.8	22.8
22.5°	26.5	25.8	25.0	24.3	23.5	22.8	22.3	21.8	21.5	21.3	21.1
25°	25.5	24.5	23.5	22.8	22.0	21.3	20.8	20.3	19.8	19.6	19.6
27.5°	24.3	23.3	22.3	21.3	20.6	19.8	19.3	18.6	18.3	18.1	17.8
30°	23.0	21.8	20.8	19.8	19.1	18.1	17.6	17.1	16.6	16.6	16.3
32.5°	21.5	20.3	19.3	18.3	17.3	16.6	16.1	15.6	15.4	14.9	14.9
35°	20.1	18.8	17.6	16.6	15.9	15.1	14.6	14.1	13.6	13.4	13.4
37.5°	18.3	17.1	16.1	15.1	14.4	13.6	13.1	12.6	12.4	12.1	11.9
40°	16.3	15.1	14.4	13.6	12.9	12.4	11.6	11.1	10.9	10.6	10.4
42.5°	14.6	13.4	12.9	12.4	11.6	11.1	10.4	9.9	9.4	9.2	8.9
45°	13.1	12.1	11.6	11.1	10.4	9.7	9.2	8.7	8.2	7.9	7.9
47.5°	11.6	10.9	10.4	9.9	9.2	8.7	7.9	7.7	7.2	7.2	7.2
50°	10.6	9.9	9.4	8.9	8.4	7.7	7.2	6.9	6.7	6.7	6.9
52.5°	9.9	9.2	8.7	8.2	7.7	7.2	6.7	6.4	6.4	6.7	6.9
55°	9.2	8.4	7.9	7.4	6.9	6.7	6.2	6.2	6.4	6.7	6.9
57.5°	8.7	7.7	7.2	6.9	6.4	6.2	6.2	6.2	6.4	6.7	7.2
60°	7.9	6.9	6.4	6.4	5.9	5.9	5.9	6.2	6.4	6.9	7.2
62.5°	6.9	6.2	5.9	5.9	5.7	5.7	5.9	6.2	6.7	6.9	7.2
65°	5.9	5.4	5.4	5.4	5.4	5.7	5.9	6.2	6.4	6.9	7.2
66°	5.4	5.2	5.2	5.4	5.4	5.7	5.9	6.2	6.4	6.7	6.9
67.5°	5.2	5.0	5.0	5.2	5.4	5.4	5.7	6.2	6.4	6.7	6.7
70°	4.5	4.5	4.5	5.0	5.2	5.4	5.7	5.9	6.2	6.4	6.7
72.5°	4.0	4.0	4.2	4.5	5.0	5.2	5.4	5.7	6.2	6.4	6.4
75°	3.5	3.5	4.0	4.2	4.7	5.0	5.4	5.7	5.9	6.2	6.2
77.5°	3.0	3.2	3.7	4.2	4.5	5.0	5.2	5.4	5.7	5.9	5.9
80°	2.7	3.2	3.7	4.0	4.2	4.5	4.7	5.2	5.4	5.7	5.9
82.5°	2.7	3.0	3.5	3.7	4.0	4.5	4.7	5.0	5.2	5.4	5.7
85°	2.2	2.7	3.0	3.5	3.7	4.2	4.5	4.5	4.7	5.0	5.2
87.5°	1.7	2.0	2.0	2.5	2.7	3.2	3.7	3.7	4.0	4.2	4.5
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°	35.9	35.9	35.9	35.9
2.5°	34.2	34.4	34.4	34.4
5°	32.7	32.7	32.7	32.7
7.5°	31.0	31.0	31.0	31.0
10°	29.2	29.2	29.5	29.2
12.5°	27.7	27.5	27.5	27.5
15°	26.0	26.0	25.8	26.0
17.5°	24.3	24.3	24.0	24.0
20°	22.5	22.5	22.5	22.5
22.5°	21.1	20.8	20.8	20.8
25°	19.3	19.3	19.3	19.3
27.5°	17.8	17.8	17.8	17.8
30°	16.3	16.3	16.1	16.1
32.5°	14.9	14.9	14.9	14.9
35°	13.4	13.4	13.1	13.1
37.5°	11.6	11.6	11.6	11.6
40°	10.2	10.2	10.2	10.2
42.5°	8.9	8.9	8.7	8.7
45°	7.7	7.7	7.7	7.7
47.5°	7.2	7.2	7.2	7.2
50°	6.9	7.2	7.2	7.2
52.5°	7.2	7.2	7.2	7.2
55°	7.2	7.4	7.4	7.4
57.5°	7.2	7.4	7.4	7.7
60°	7.4	7.7	7.7	7.7
62.5°	7.4	7.7	7.7	7.7
65°	7.2	7.4	7.4	7.4
66°	7.2	7.2	7.2	7.4
67.5°	6.9	7.2	7.2	7.2
70°	6.7	6.9	6.9	7.2
72.5°	6.7	6.9	6.9	6.9
75°	6.4	6.4	6.7	6.7
77.5°	6.2	6.2	6.4	6.4
80°	5.9	6.2	6.2	6.2
82.5°	5.7	5.9	5.9	5.9
85°	5.2	5.4	5.4	5.4
87.5°	4.5	4.5	4.7	4.7
90°	0.0	0.0	0.0	0.0

(END OF REPORT)