

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: P181524

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181524
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-F01-LED-E1-T4-HSS
Description: ICON SITE MEDIUM 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: 1485.2 lumens
Efficiency: N/A
Efficacy: 57.3 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

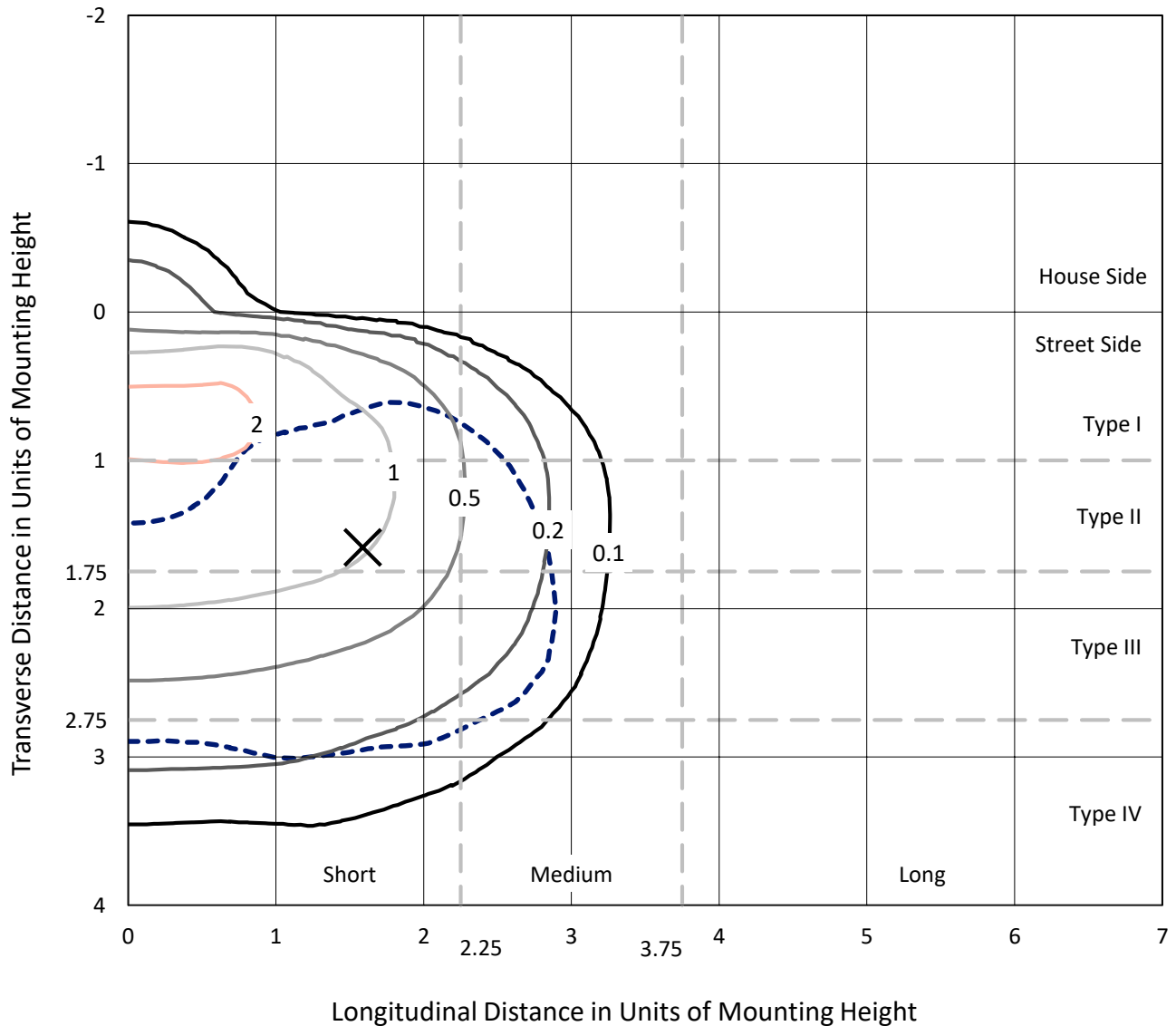


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

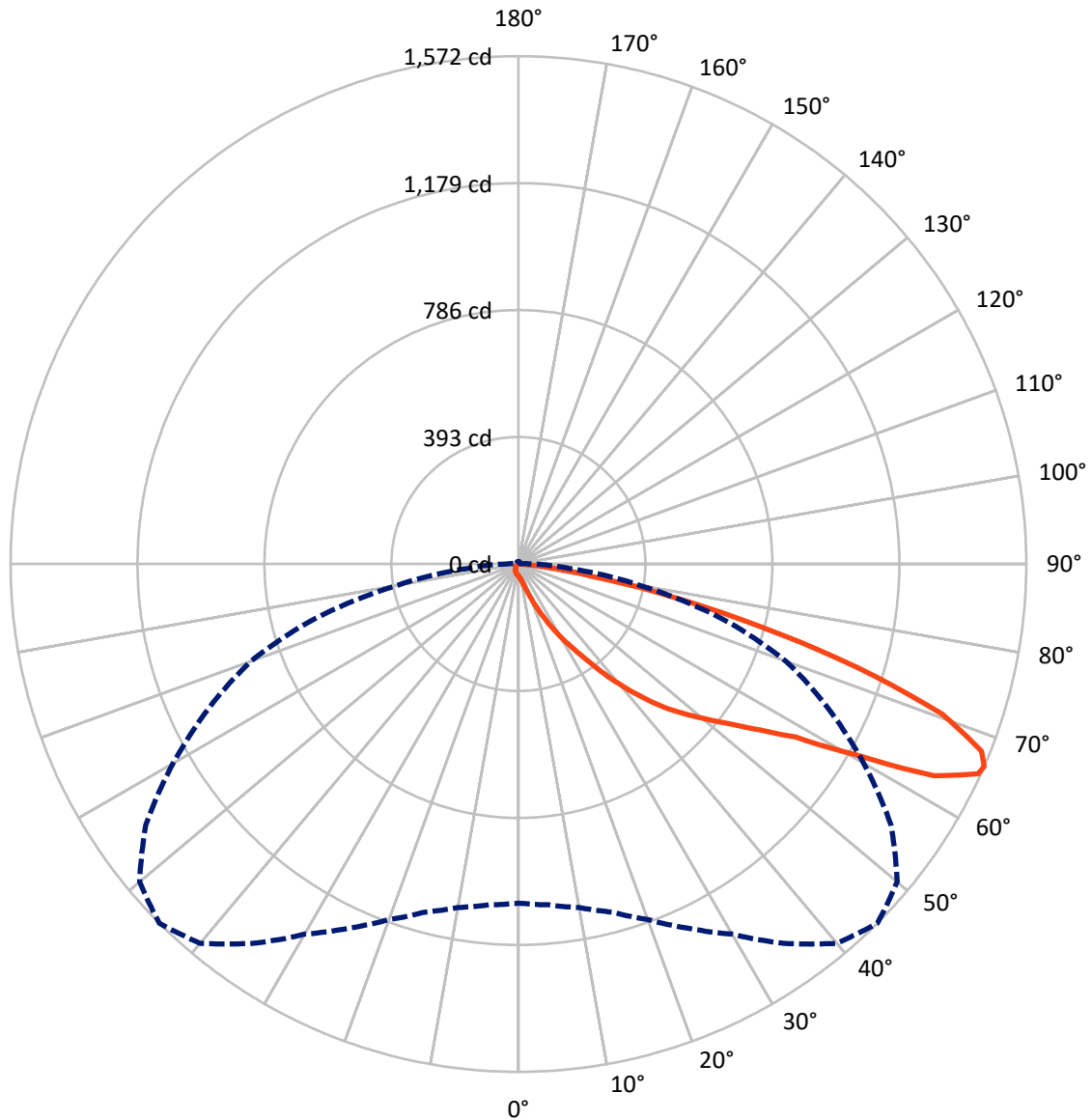


Based on 10 foot mounting height. Maximum calculated value = 2.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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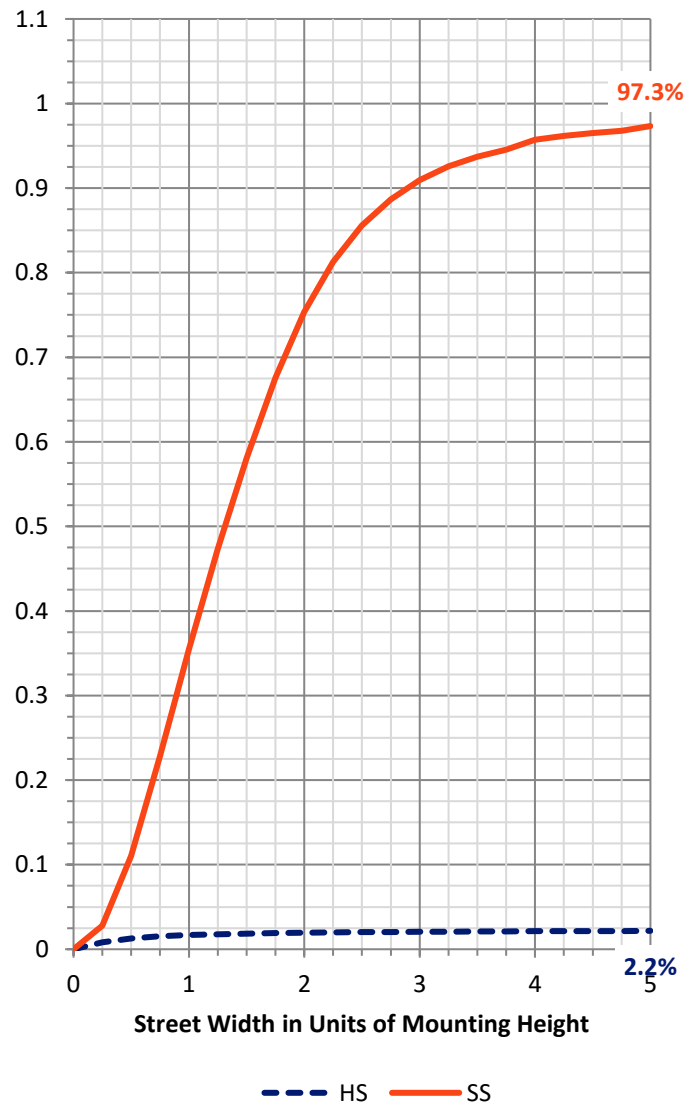
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	33.7	0.0	33.7
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	1451.6	0.0	1451.6
	% Fixture	97.7	0.0	97.7
Total	Lumens	1485.2	0.0	1485.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3.7	0.3
10°-20°	15.1	1.0
20°-30°	44.4	3.0
30°-40°	103.6	7.0
40°-50°	194.7	13.1
50°-60°	322.6	21.7
60°-70°	512.2	34.5
70°-80°	264.9	17.8
80°-90°	23.9	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°	1485.2	100.0
0°-180°	1485.2	100.0



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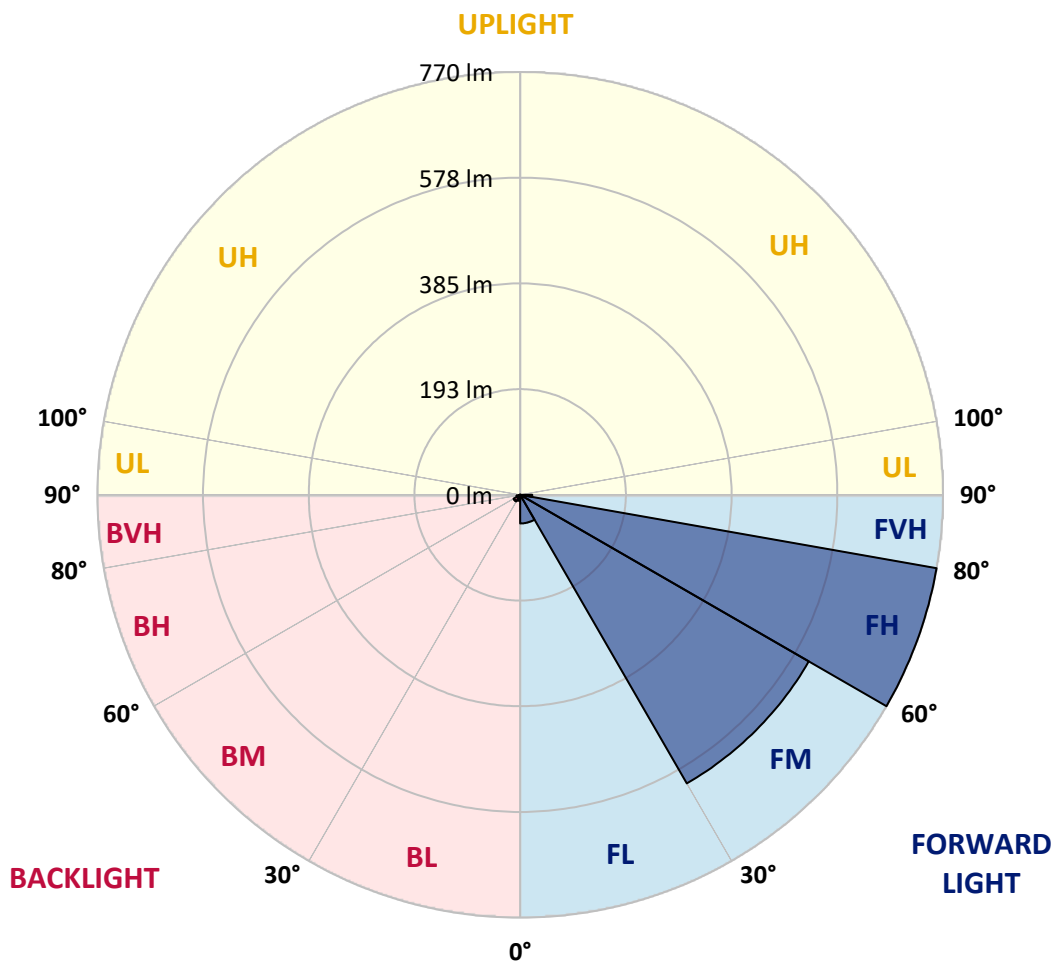
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	52.3	3.5			
FM	(30°-60°)	607.0	40.9			
FH	(60°-80°)	770.3	51.9			G1/1800
FVH	(80°-90°)	22.0	1.5			G1/100
BL	(0°-30°)	11.0	0.7	B0/110		
BM	(30°-60°)	14.0	0.9	B0/220		
BH	(60°-80°)	6.8	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°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
2.5°	40.2	40.2	40.2	40.2	39.9	39.7	39.4	39.2	38.9	38.9	38.7
5°	45.6	45.9	45.6	45.3	44.8	44.6	43.8	43.3	42.5	42.2	41.5
7.5°	53.0	52.7	53.0	52.2	51.2	51.0	50.0	48.7	47.6	46.0	45.0
10°	63.7	63.4	63.7	62.2	60.7	59.3	57.6	56.1	53.8	52.0	50.0
12.5°	80.9	80.9	80.4	78.3	76.3	73.5	70.6	67.3	63.3	59.6	56.3
15°	107.3	106.0	103.6	102.4	98.8	94.4	91.3	84.7	78.9	73.2	66.5
17.5°	139.0	136.5	134.6	131.8	127.3	121.6	116.5	106.7	100.8	91.6	82.1
20°	175.3	172.3	171.7	167.4	162.5	156.4	149.0	137.5	127.4	116.0	102.6
22.5°	212.5	212.9	210.9	207.8	203.0	195.8	184.3	173.8	161.5	147.0	129.8
25°	254.0	253.7	251.9	248.3	244.7	235.7	226.5	216.6	202.0	183.3	162.8
27.5°	292.8	292.6	288.2	288.5	281.6	278.2	269.3	258.5	240.8	225.3	203.0
30°	333.6	331.0	328.2	326.1	321.2	315.4	310.8	298.0	284.7	266.2	248.0
32.5°	374.8	371.9	372.7	370.1	366.3	360.4	353.5	343.0	328.7	310.8	293.9
35°	425.2	423.9	421.9	422.6	421.9	417.5	411.6	397.8	382.1	365.0	347.6
37.5°	462.5	461.3	462.5	467.9	469.2	472.0	467.6	460.7	449.5	430.8	412.7
40°	497.1	497.4	503.3	509.9	514.5	523.7	525.3	522.4	513.5	496.4	472.6
42.5°	528.1	531.9	537.3	548.3	558.3	571.4	581.0	582.6	575.9	564.7	540.7
45°	562.6	566.0	574.4	587.4	601.3	617.4	633.0	641.2	640.7	632.7	606.9
47.5°	601.3	605.7	614.9	625.6	644.0	662.2	682.4	697.0	703.2	692.2	667.1
50°	648.1	650.0	657.9	671.7	688.6	709.6	731.6	752.8	764.8	754.6	728.7
52.5°	703.7	704.2	711.6	724.4	738.0	761.0	782.5	812.0	827.5	822.0	791.0
55°	780.0	778.4	783.5	794.5	805.6	827.8	849.3	882.6	905.4	905.9	872.8
57.5°	884.2	880.6	883.9	892.6	904.8	925.6	952.8	982.1	1012.7	1010.6	983.4
60°	1029.3	1028.0	1034.1	1048.8	1069.8	1091.3	1122.0	1161.6	1188.5	1197.7	1169.3
62.5°	1125.8	1129.4	1143.4	1166.0	1206.4	1251.0	1308.0	1368.8	1419.9	1443.0	1403.8
65°	1084.3	1090.2	1112.2	1145.5	1199.0	1265.8	1341.6	1441.1	1529.5	1564.6	1523.8
66°	1049.2	1058.7	1079.4	1114.8	1170.6	1243.5	1322.6	1432.8	1532.0	1571.5	1530.0
67.5°	988.6	995.3	1018.8	1058.0	1117.9	1190.1	1275.5	1391.7	1503.9	1545.6	1504.4
70°	864.9	867.5	886.7	920.0	966.3	1040.3	1117.9	1229.7	1332.8	1391.5	1346.4
72.5°	643.8	647.4	679.1	739.8	799.9	842.0	887.7	977.3	1043.9	1098.7	1090.0
75°	309.8	311.3	332.6	421.1	538.3	588.5	631.0	700.4	725.7	771.5	764.6
77.5°	196.4	199.6	213.5	235.0	301.6	361.2	394.7	434.4	441.9	480.5	458.0
80°	54.0	62.7	76.6	112.7	193.3	230.4	245.5	243.9	245.5	233.7	226.0
82.5°	11.0	10.8	13.0	20.2	85.2	134.1	144.8	123.3	122.6	118.0	121.9
85°	2.8	2.6	3.1	6.4	14.6	39.7	50.0	27.9	21.2	20.2	18.0
87.5°	0.7	0.7	0.7	1.3	1.6	2.0	2.8	2.0	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°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
2.5°	38.4	38.4	38.1	37.9	37.9	37.7	37.4	37.1	36.8	36.7	36.4
5°	40.7	40.2	39.4	38.9	38.4	37.7	37.1	36.7	36.1	35.8	35.3
7.5°	43.8	42.5	41.5	39.9	38.9	37.9	36.8	36.1	35.3	34.8	34.3
10°	47.6	45.6	43.5	41.5	39.7	38.1	36.7	35.3	34.5	33.8	33.3
12.5°	52.5	49.4	46.6	43.5	40.7	38.4	36.4	34.8	33.8	33.0	32.3
15°	60.4	55.5	50.7	46.0	42.5	38.9	36.1	34.3	33.0	32.3	31.4
17.5°	72.9	64.3	56.6	50.1	44.3	39.7	36.1	33.8	32.3	31.3	30.4
20°	91.2	76.8	64.5	55.3	47.6	40.9	36.1	33.0	31.4	30.2	29.4
22.5°	112.7	94.7	77.9	62.4	51.4	42.8	36.1	32.3	30.4	29.4	28.4
25°	144.1	120.3	97.3	75.8	57.9	45.6	36.8	31.7	29.7	28.4	27.3
27.5°	180.9	152.3	123.6	93.4	67.5	49.7	37.9	31.3	28.9	27.3	26.3
30°	223.0	191.3	156.2	117.0	80.4	55.1	39.7	31.0	27.9	26.3	25.1
32.5°	268.6	235.0	196.6	147.2	99.3	63.3	42.0	30.7	26.9	25.1	23.5
35°	322.8	291.5	244.7	189.7	128.7	77.3	47.1	31.3	25.9	23.8	22.0
37.5°	382.1	348.9	299.3	234.7	158.0	93.2	51.0	30.4	24.1	22.0	20.2
40°	442.0	403.9	353.5	282.0	195.1	112.7	55.8	29.7	22.2	20.2	18.4
42.5°	500.5	460.3	405.5	330.7	234.2	135.6	62.0	29.7	21.0	18.4	16.7
45°	561.6	513.2	453.3	377.3	273.1	162.0	70.6	29.4	19.4	16.9	14.9
47.5°	619.4	562.1	493.3	418.2	314.9	191.0	80.7	29.7	18.1	15.3	13.6
50°	674.2	608.5	534.2	454.9	354.8	222.2	92.9	30.0	16.9	14.0	12.3
52.5°	734.1	661.2	578.2	492.5	394.2	253.7	107.3	30.4	15.6	12.8	11.3
55°	808.4	727.4	632.6	538.6	435.9	285.4	121.1	31.0	14.3	11.8	10.2
57.5°	915.4	823.3	720.6	607.7	491.3	321.5	135.4	32.3	13.3	11.0	9.5
60°	1089.4	979.6	861.1	728.0	573.9	370.4	156.2	35.1	12.0	10.0	8.9
62.5°	1298.8	1166.7	1016.0	854.4	651.7	403.4	170.0	38.1	11.0	9.2	8.5
65°	1404.3	1237.9	1064.1	889.8	661.7	393.7	164.4	37.1	9.8	8.2	7.2
66°	1407.4	1234.1	1057.4	882.1	651.4	382.0	159.0	36.7	9.5	7.9	6.7
67.5°	1378.1	1201.0	1022.1	847.3	621.2	359.2	149.2	34.8	8.7	7.2	5.9
70°	1234.1	1061.6	897.5	735.9	534.5	302.6	125.2	30.7	7.7	6.4	5.4
72.5°	983.7	843.2	704.9	579.0	415.4	227.1	98.8	25.1	6.7	5.7	4.7
75°	687.1	571.6	466.4	376.6	261.1	135.9	64.0	17.7	5.7	4.7	3.8
77.5°	383.4	304.1	229.9	175.1	104.2	42.5	21.2	8.9	4.8	3.6	3.1
80°	195.1	144.7	110.0	81.1	48.1	22.0	10.8	5.9	3.8	2.8	2.6
82.5°	113.4	83.2	66.3	52.5	33.0	16.7	8.7	4.4	2.6	2.0	2.3
85°	25.3	33.5	28.4	24.1	17.7	10.5	6.1	2.8	1.8	1.8	2.0
87.5°	2.0	2.8	2.6	3.3	3.6	3.3	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°	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1	37.1
2.5°	36.1	35.8	35.8	35.5	35.3	35.3	35.3	35.1	35.3	35.3	35.3
5°	35.1	34.8	34.5	34.3	34.0	33.8	33.8	33.5	33.5	33.5	33.8
7.5°	34.0	33.5	33.3	32.7	32.5	32.3	32.3	32.0	32.0	32.0	32.0
10°	32.7	32.3	31.7	31.4	31.3	30.7	30.7	30.4	30.2	30.2	30.2
12.5°	31.7	31.3	30.7	30.2	29.7	29.4	29.2	28.9	28.7	28.7	28.7
15°	30.7	30.0	29.4	28.9	28.4	27.9	27.6	27.3	27.2	26.9	26.9
17.5°	29.7	28.9	28.2	27.6	27.2	26.6	26.3	25.6	25.6	25.3	25.3
20°	28.4	27.6	26.9	26.3	25.9	25.3	24.8	24.3	23.8	23.5	23.5
22.5°	27.3	26.6	25.9	25.1	24.3	23.5	23.1	22.5	22.2	22.0	21.8
25°	26.3	25.3	24.3	23.5	22.8	22.0	21.5	21.0	20.5	20.2	20.2
27.5°	25.1	24.1	23.1	22.0	21.2	20.5	20.0	19.2	19.0	18.7	18.4
30°	23.8	22.5	21.5	20.5	19.7	18.7	18.1	17.7	17.1	17.1	16.9
32.5°	22.2	21.0	20.0	19.0	18.0	17.1	16.7	16.1	15.9	15.3	15.3
35°	20.7	19.4	18.1	17.1	16.4	15.6	15.1	14.6	14.0	13.9	13.9
37.5°	19.0	17.7	16.7	15.6	14.9	14.0	13.6	13.0	12.8	12.6	12.3
40°	16.9	15.6	14.9	14.0	13.3	12.8	12.0	11.5	11.3	11.0	10.8
42.5°	15.1	13.9	13.3	12.8	12.0	11.5	10.8	10.2	9.8	9.5	9.2
45°	13.6	12.6	12.0	11.5	10.8	10.0	9.5	8.9	8.5	8.2	8.2
47.5°	12.0	11.3	10.8	10.2	9.5	8.9	8.2	7.9	7.4	7.4	7.4
50°	11.0	10.2	9.8	9.2	8.7	7.9	7.4	7.2	6.9	6.9	7.2
52.5°	10.2	9.5	8.9	8.5	7.9	7.4	6.9	6.7	6.7	6.9	7.2
55°	9.5	8.7	8.2	7.7	7.2	6.9	6.4	6.4	6.7	6.9	7.2
57.5°	8.9	7.9	7.4	7.2	6.7	6.4	6.4	6.4	6.7	6.9	7.4
60°	8.2	7.2	6.7	6.7	6.1	6.1	6.1	6.4	6.7	7.2	7.4
62.5°	7.2	6.4	6.1	6.1	5.9	5.9	6.1	6.4	6.9	7.2	7.4
65°	6.1	5.7	5.7	5.7	5.7	5.9	6.1	6.4	6.7	7.2	7.4
66°	5.7	5.4	5.4	5.7	5.7	5.9	6.1	6.4	6.7	6.9	7.2
67.5°	5.4	5.1	5.1	5.4	5.7	5.7	5.9	6.4	6.7	6.9	6.9
70°	4.7	4.7	4.7	5.1	5.4	5.7	5.9	6.1	6.4	6.7	6.9
72.5°	4.1	4.1	4.4	4.7	5.1	5.4	5.7	5.9	6.4	6.7	6.7
75°	3.6	3.6	4.1	4.4	4.8	5.1	5.7	5.9	6.1	6.4	6.4
77.5°	3.1	3.3	3.8	4.4	4.7	5.1	5.4	5.7	5.9	6.1	6.1
80°	2.8	3.3	3.8	4.1	4.4	4.7	4.8	5.4	5.7	5.9	6.1
82.5°	2.8	3.1	3.6	3.8	4.1	4.7	4.8	5.1	5.4	5.7	5.9
85°	2.3	2.8	3.1	3.6	3.8	4.4	4.7	4.7	4.8	5.1	5.4
87.5°	1.8	2.0	2.0	2.6	2.8	3.3	3.8	3.8	4.1	4.4	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°	37.1	37.1	37.1	37.1
2.5°	35.3	35.5	35.5	35.5
5°	33.8	33.8	33.8	33.8
7.5°	32.0	32.0	32.0	32.0
10°	30.2	30.2	30.4	30.2
12.5°	28.7	28.4	28.4	28.4
15°	26.9	26.9	26.6	26.9
17.5°	25.1	25.1	24.8	24.8
20°	23.3	23.3	23.3	23.3
22.5°	21.8	21.5	21.5	21.5
25°	20.0	20.0	20.0	20.0
27.5°	18.4	18.4	18.4	18.4
30°	16.9	16.9	16.7	16.7
32.5°	15.3	15.3	15.3	15.3
35°	13.9	13.9	13.6	13.6
37.5°	12.0	12.0	12.0	12.0
40°	10.5	10.5	10.5	10.5
42.5°	9.2	9.2	8.9	8.9
45°	7.9	7.9	7.9	7.9
47.5°	7.4	7.4	7.4	7.4
50°	7.2	7.4	7.4	7.4
52.5°	7.4	7.4	7.4	7.4
55°	7.4	7.7	7.7	7.7
57.5°	7.4	7.7	7.7	7.9
60°	7.7	7.9	7.9	7.9
62.5°	7.7	7.9	7.9	7.9
65°	7.4	7.7	7.7	7.7
66°	7.4	7.4	7.4	7.7
67.5°	7.2	7.4	7.4	7.4
70°	6.9	7.2	7.2	7.4
72.5°	6.9	7.2	7.2	7.2
75°	6.7	6.7	6.9	6.9
77.5°	6.4	6.4	6.7	6.7
80°	6.1	6.4	6.4	6.4
82.5°	5.9	6.1	6.1	6.1
85°	5.4	5.7	5.7	5.7
87.5°	4.7	4.7	4.8	4.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)