

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: P180763

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180763
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
Description: ICON SITE MEDIUM 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: 1562.6 lumens
Efficiency: N/A
Efficacy: 60.3 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

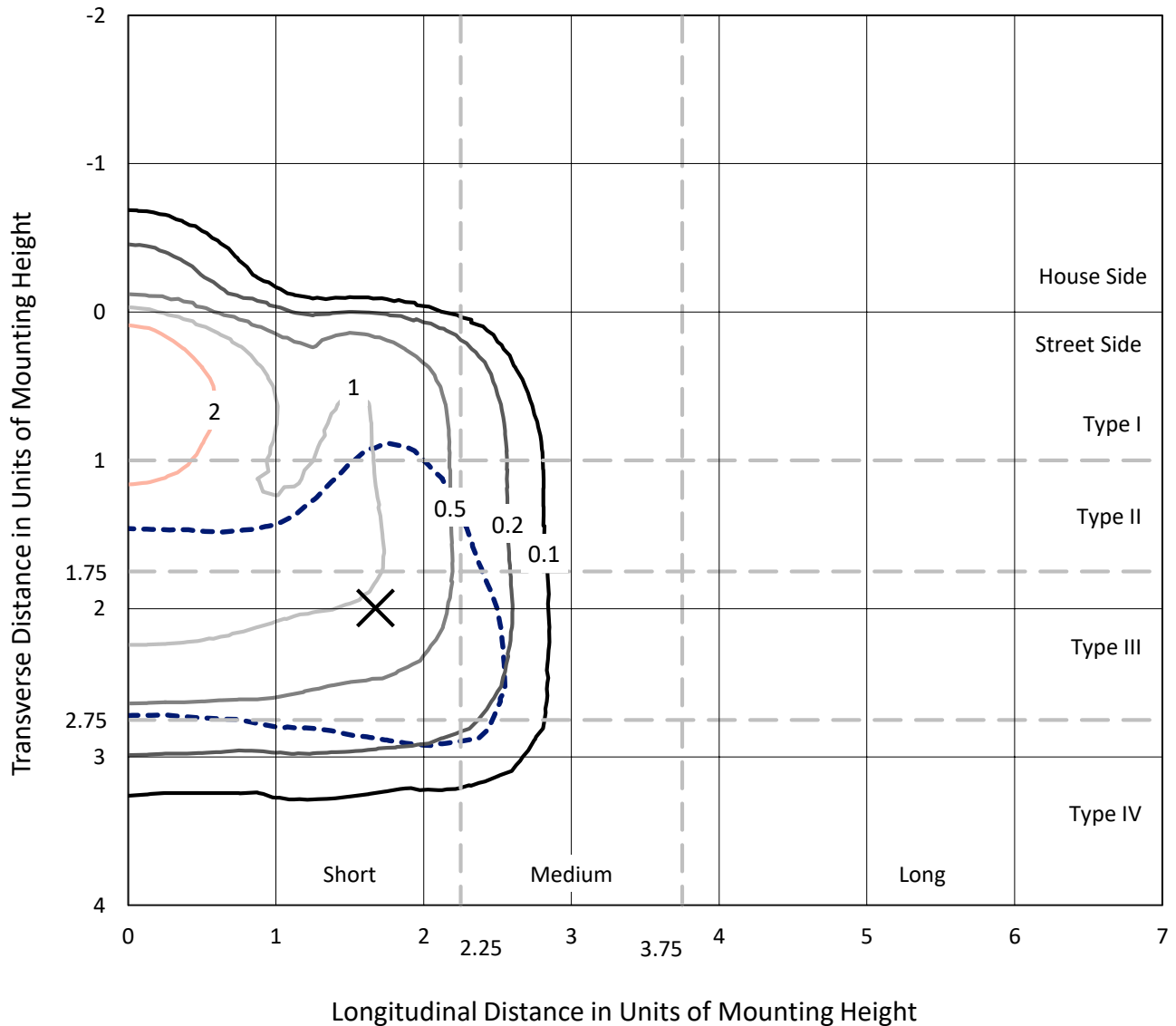


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

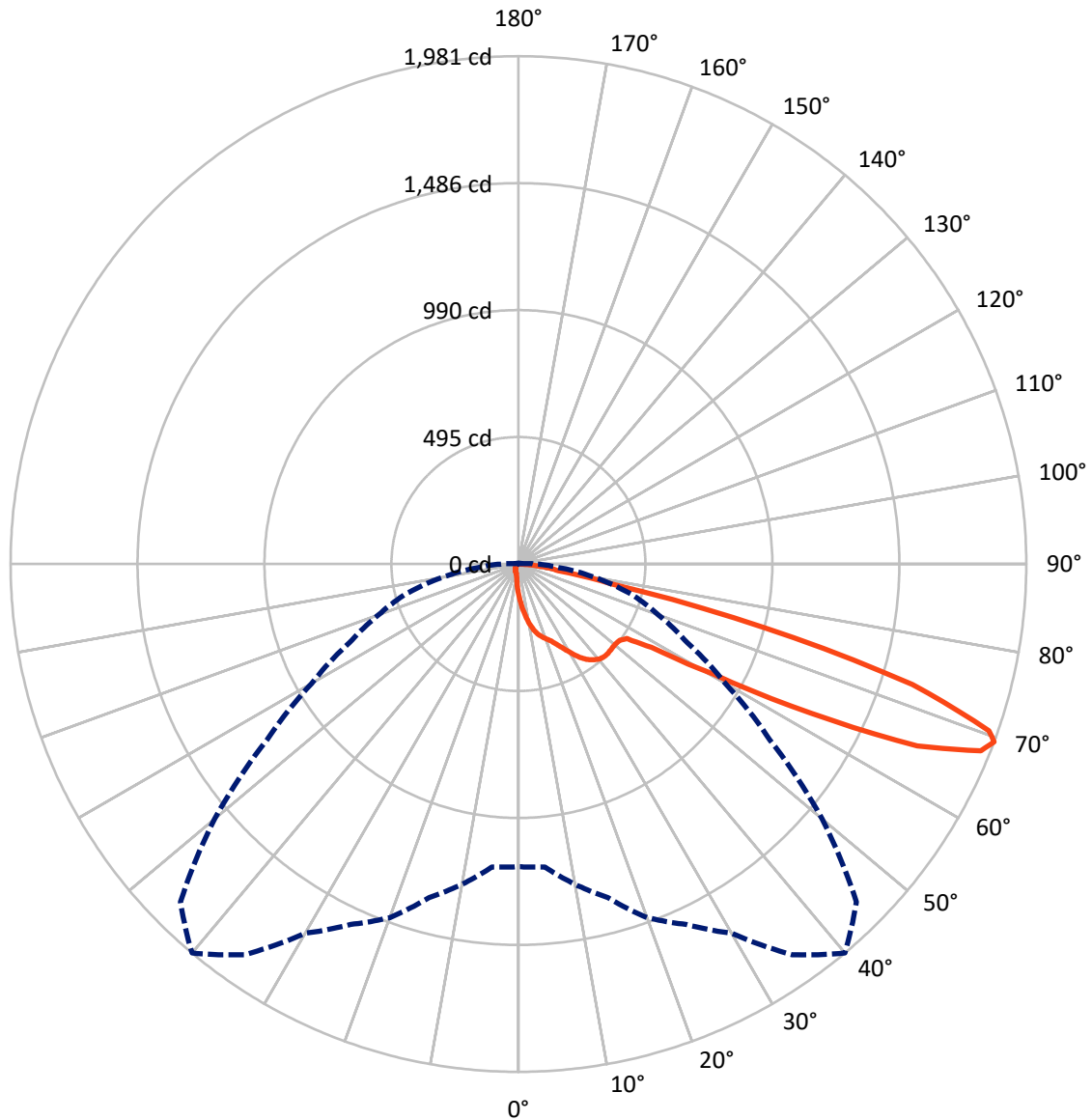


Based on 10 foot mounting height. Maximum calculated value = 3.5 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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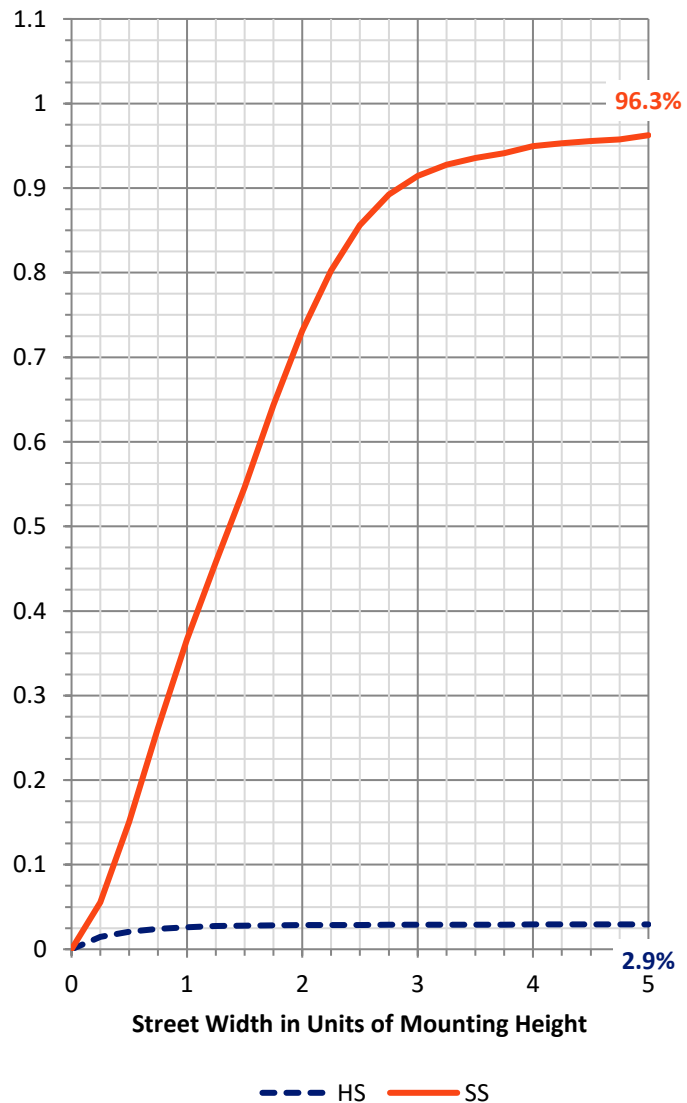
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	46.5	0.0	46.5
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	1516.1	0.0	1516.1
	% Fixture	97.0	0.0	97.0
Total	Lumens	1562.6	0.0	1562.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.1	0.8
10°-20°	41.8	2.7
20°-30°	80.0	5.1
30°-40°	133.1	8.5
40°-50°	180.1	11.5
50°-60°	281.7	18.0
60°-70°	579.1	37.1
70°-80°	233.0	14.9
80°-90°	21.6	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°	1562.6	100.0
0°-180°	1562.6	100.0



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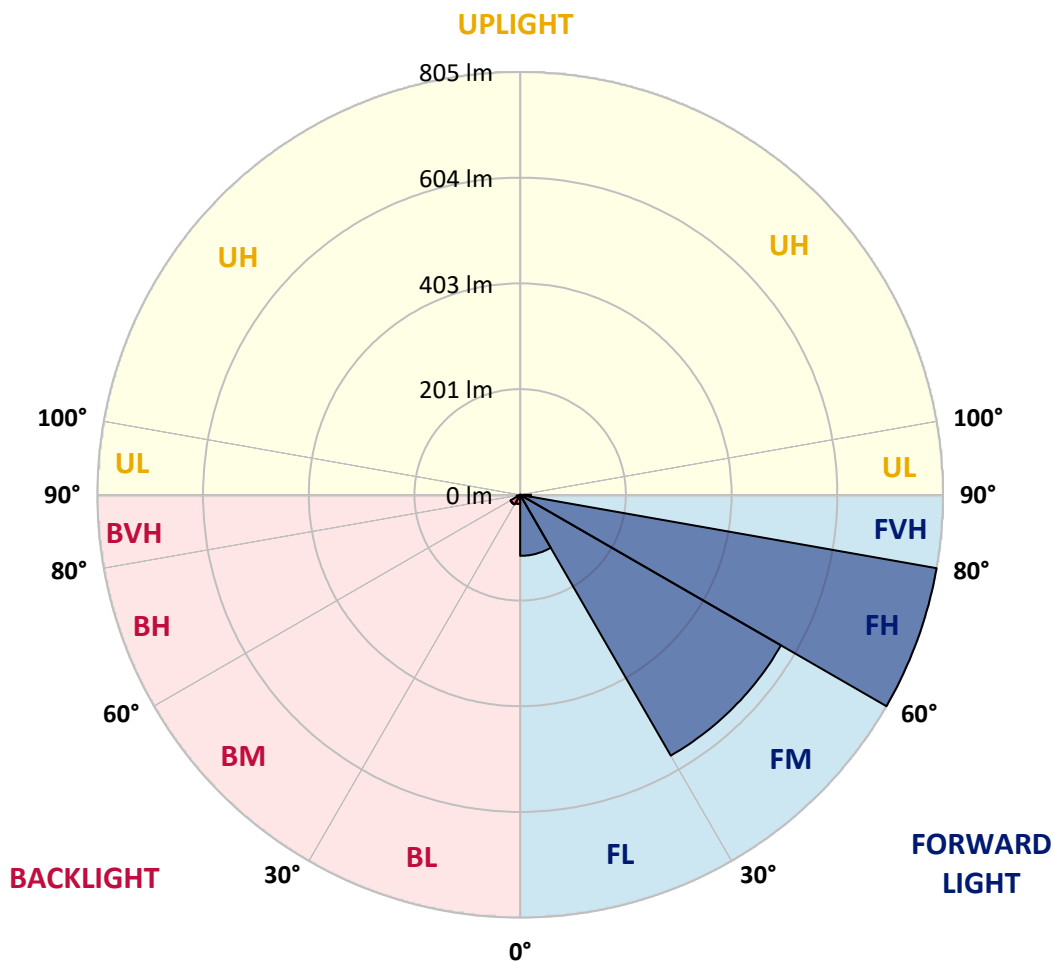
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	116.3	7.4			
FM (30°-60°)	573.7	36.7			
FH (60°-80°)	805.4	51.5			G1/1800
FVH (80°-90°)	20.8	1.3			G1/100
BL (0°-30°)	17.7	1.1	B0/110		
BM (30°-60°)	21.3	1.4	B0/220		
BH (60°-80°)	6.8	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°	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
2.5°	157.4	155.6	153.6	153.6	151.1	151.1	149.5	145.4	144.8	142.6	140.3
5°	200.9	199.4	196.8	194.5	192.5	188.9	186.3	181.5	176.1	171.0	166.4
7.5°	243.4	242.7	238.0	237.3	234.0	228.1	223.0	215.8	206.6	199.4	191.0
10°	282.9	281.0	280.0	275.7	270.8	264.5	256.5	247.8	237.0	225.8	213.8
12.5°	314.0	313.0	308.5	306.7	301.6	295.2	285.1	273.9	263.2	248.6	234.5
15°	337.4	335.6	332.6	329.7	323.5	318.0	308.7	296.5	283.4	267.5	250.6
17.5°	356.8	353.5	352.7	348.4	342.0	335.4	325.1	313.9	298.5	282.6	264.2
20°	383.0	378.3	376.8	370.4	363.0	353.8	342.0	327.9	311.8	294.4	275.4
22.5°	413.7	410.3	407.0	401.4	391.9	378.9	361.7	346.3	325.9	306.7	286.1
25°	457.2	454.3	449.0	441.3	429.5	414.0	393.2	370.7	346.6	322.0	298.0
27.5°	499.4	496.8	493.0	487.2	473.8	456.7	431.1	402.4	371.9	342.2	315.6
30°	539.1	536.7	532.9	527.1	515.3	498.4	469.5	438.7	400.8	366.3	334.3
32.5°	581.9	581.0	576.7	568.3	558.0	535.3	503.7	470.7	432.4	392.4	355.1
35°	630.2	624.4	620.2	611.8	594.4	570.0	533.2	497.1	456.7	415.7	374.0
37.5°	671.2	665.6	660.5	649.7	628.5	597.5	555.7	516.1	474.3	432.6	390.1
40°	701.1	698.3	692.2	678.1	654.2	617.4	572.4	529.1	487.2	445.1	403.2
42.5°	723.4	719.1	712.1	697.6	669.4	627.4	579.0	534.5	493.0	452.8	411.6
45°	731.6	728.0	721.6	705.8	675.3	630.2	578.8	532.9	493.3	455.2	417.2
47.5°	726.7	723.2	717.5	702.7	672.7	626.9	574.1	528.6	490.7	455.9	422.3
50°	710.6	708.6	704.2	691.6	664.7	620.5	570.0	526.3	490.2	459.7	429.5
52.5°	709.0	707.8	702.4	689.9	662.5	618.4	569.6	527.5	494.5	464.6	434.6
55°	866.5	848.3	807.6	773.0	716.2	648.7	595.4	548.3	513.0	483.8	462.8
57.5°	1231.5	1204.4	1150.9	1085.1	954.5	826.3	723.6	649.4	612.8	599.5	607.4
60°	1402.5	1397.7	1389.2	1358.0	1291.2	1180.8	1058.0	925.1	871.8	867.3	883.4
62.5°	1483.6	1480.6	1483.2	1479.3	1458.5	1426.3	1391.0	1333.7	1280.9	1246.9	1174.7
65°	1521.0	1523.1	1537.7	1549.2	1551.7	1560.2	1586.1	1657.5	1709.7	1621.9	1421.4
67.5°	1426.1	1438.1	1471.6	1513.6	1562.7	1610.3	1687.2	1837.7	1944.9	1841.8	1557.1
69°	1180.6	1186.4	1268.4	1347.5	1467.5	1551.5	1662.8	1860.2	1980.8	1864.3	1546.3
70°	929.5	934.8	1022.6	1130.1	1333.1	1441.1	1586.8	1822.1	1947.3	1834.3	1491.1
72.5°	419.3	411.6	442.6	500.2	720.8	892.4	1147.1	1476.2	1606.5	1469.6	1115.5
75°	292.8	289.5	292.8	293.1	327.4	422.3	532.9	800.2	989.6	854.0	532.9
77.5°	226.8	224.5	222.2	219.6	223.7	250.6	261.4	283.9	368.7	348.7	203.3
80°	179.4	177.4	183.1	181.2	181.2	184.3	182.2	173.8	158.0	146.4	131.1
82.5°	83.4	84.0	84.0	91.2	109.9	128.3	134.1	125.7	111.6	95.0	76.6
85°	7.9	8.9	15.1	23.3	46.3	52.2	52.5	43.5	43.5	34.3	27.6
87.5°	0.0	0.3	0.3	0.3	2.3	6.4	5.4	1.6	0.7	0.7	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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
2.5°	136.2	135.4	132.4	129.3	126.4	123.3	120.6	117.8	114.7	112.4	109.6
5°	159.3	153.6	147.2	141.0	134.9	128.5	121.9	116.0	109.9	104.2	98.8
7.5°	182.5	171.5	162.8	151.8	141.8	131.8	122.6	113.1	104.5	96.3	88.6
10°	202.2	188.9	175.3	161.3	147.0	133.6	120.8	109.6	98.0	88.1	78.6
12.5°	218.3	201.5	184.8	167.2	151.1	134.1	118.2	104.7	91.2	79.9	70.1
15°	232.9	213.5	193.5	173.0	152.6	133.4	115.7	98.8	85.0	72.2	61.2
17.5°	244.7	222.4	199.9	176.8	154.9	132.4	112.4	94.7	78.6	65.3	54.5
20°	255.0	231.6	207.4	181.5	156.4	132.1	109.6	89.6	72.9	58.9	48.4
22.5°	264.5	241.1	215.0	187.3	158.7	131.8	107.0	85.8	68.1	54.0	43.5
25°	275.2	250.6	223.3	193.5	162.8	132.8	105.5	82.7	63.7	49.4	39.7
27.5°	287.2	261.4	232.9	201.2	168.2	134.9	104.9	79.3	59.9	45.0	36.7
30°	304.1	274.1	242.7	208.8	173.0	137.2	104.5	77.3	56.1	41.8	33.5
32.5°	319.0	286.7	253.4	216.8	178.4	139.5	104.2	74.5	52.5	38.4	31.3
35°	334.6	298.2	262.6	224.5	183.1	142.0	103.9	72.5	49.1	35.1	28.9
37.5°	348.1	307.9	269.8	231.2	188.2	144.4	104.2	70.6	46.0	32.3	26.9
40°	359.6	318.0	277.8	237.3	193.5	148.0	104.5	68.8	43.0	29.7	25.1
42.5°	369.9	327.4	286.1	244.2	199.6	152.1	106.0	67.3	40.5	27.3	23.3
45°	377.9	336.1	295.4	254.0	209.7	158.7	108.7	66.3	37.9	25.3	21.8
47.5°	386.0	348.9	311.0	269.3	224.3	169.2	113.7	66.0	35.8	23.8	20.5
50°	397.3	361.7	324.8	284.9	237.6	179.9	119.5	66.3	33.3	22.2	19.2
52.5°	405.5	374.8	342.8	312.0	269.3	212.7	142.3	70.9	32.0	21.0	17.7
55°	453.9	448.5	449.2	454.3	421.3	362.0	238.0	102.4	37.7	23.8	17.4
57.5°	639.9	658.9	669.9	669.7	615.1	510.1	319.7	131.5	42.0	27.6	20.7
60°	884.7	870.3	850.1	800.2	727.7	582.3	357.6	141.6	36.4	22.0	19.0
62.5°	1100.9	1017.0	942.5	861.6	766.6	607.4	365.3	140.7	31.7	16.7	13.3
65°	1235.8	1084.8	964.6	863.2	751.3	586.4	345.6	129.3	26.9	13.6	11.0
67.5°	1268.1	1048.2	878.1	748.7	627.6	456.4	253.7	97.3	21.0	11.3	9.8
69°	1197.7	931.7	727.4	580.8	456.7	302.8	156.9	61.4	16.1	10.2	8.9
70°	1101.8	810.4	592.6	466.1	338.1	212.7	109.9	43.3	13.0	9.5	8.2
72.5°	708.8	425.7	291.3	202.7	139.5	84.7	43.0	19.4	10.0	7.9	6.7
75°	274.9	157.4	114.1	86.8	67.8	47.1	26.1	12.6	8.5	6.7	5.1
77.5°	135.4	103.6	84.7	58.1	33.8	21.0	14.0	9.8	6.9	4.8	3.3
80°	107.0	71.2	42.5	26.3	20.0	15.1	10.8	7.9	5.1	3.1	2.3
82.5°	54.8	30.0	22.0	18.0	14.9	11.8	8.7	5.7	3.3	2.0	1.8
85°	17.1	12.6	11.3	11.0	10.2	8.5	6.1	3.6	2.0	1.3	1.3
87.5°	1.3	1.8	2.3	1.8	2.0	1.8	2.3	1.6	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°	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0	118.0
2.5°	107.5	104.5	101.6	99.8	96.5	95.3	94.0	93.4	91.2	91.6	89.6
5°	94.0	88.6	84.5	80.4	76.6	73.8	71.4	68.6	66.3	65.3	63.3
7.5°	81.7	74.8	69.4	65.0	60.4	56.8	53.8	51.7	49.7	47.6	46.6
10°	70.9	63.4	57.3	53.0	48.7	45.6	43.3	41.8	40.5	39.7	39.4
12.5°	60.9	53.8	48.1	44.3	40.9	39.4	38.4	37.7	37.4	37.1	37.1
15°	53.2	46.0	41.8	38.9	37.4	36.7	36.4	35.8	35.3	35.1	35.1
17.5°	46.0	40.7	37.7	36.1	35.3	34.8	34.3	33.8	33.3	33.0	33.0
20°	41.2	36.8	35.3	34.3	33.5	33.0	32.3	31.7	31.4	31.3	31.0
22.5°	37.4	34.5	33.5	32.7	31.7	31.0	30.4	30.0	29.4	29.2	28.9
25°	34.5	32.7	32.0	31.0	30.0	29.2	28.4	27.6	27.2	26.9	26.3
27.5°	32.5	31.3	30.2	28.9	27.9	27.2	26.3	25.6	25.1	24.6	24.3
30°	30.7	29.4	28.2	27.2	25.9	25.1	24.1	23.3	23.1	22.5	22.0
32.5°	28.9	27.6	26.3	25.1	23.8	22.8	22.2	21.2	20.7	20.5	20.0
35°	26.9	25.6	24.1	23.1	21.8	20.7	20.0	19.2	18.7	18.1	18.0
37.5°	25.1	23.5	22.0	20.7	19.7	18.7	18.0	17.1	16.7	16.1	15.9
40°	23.1	21.5	20.0	18.7	17.7	16.9	16.1	15.3	14.9	14.6	14.6
42.5°	21.2	19.4	18.0	16.9	16.1	15.1	14.3	13.6	13.3	13.0	13.3
45°	19.4	17.7	16.4	15.3	14.6	13.6	12.8	12.3	12.0	12.3	12.6
47.5°	18.0	16.1	14.9	14.0	13.3	12.6	11.8	11.3	11.3	11.8	12.3
50°	16.4	14.6	13.6	13.0	12.3	11.5	10.5	10.2	10.5	11.0	11.5
52.5°	14.9	12.8	12.0	11.8	11.0	10.2	9.5	9.2	9.5	10.0	9.8
55°	13.3	11.3	11.0	10.8	10.0	8.9	8.2	8.2	8.2	7.9	7.4
57.5°	12.8	10.0	9.8	9.5	8.7	7.7	7.2	6.7	6.4	5.7	5.4
60°	13.3	8.9	8.9	8.5	7.7	6.7	5.9	5.1	4.7	4.1	4.1
62.5°	10.8	8.2	7.9	7.4	6.4	5.4	4.7	3.8	3.6	3.3	3.3
65°	8.7	7.4	6.9	6.1	5.4	4.4	3.6	3.1	2.8	2.8	3.1
67.5°	7.9	6.7	5.9	5.1	4.4	3.3	2.8	2.6	2.6	2.8	2.8
69°	7.4	6.1	5.4	4.7	3.8	3.1	2.6	2.6	2.6	2.6	2.8
70°	6.9	5.9	5.1	4.4	3.3	2.6	2.3	2.3	2.6	2.6	2.8
72.5°	5.4	4.7	4.4	3.6	2.6	2.3	2.0	2.3	2.3	2.6	2.6
75°	4.1	3.3	3.3	2.8	2.0	1.8	1.8	2.0	2.0	2.3	2.3
77.5°	2.8	2.3	2.3	2.0	1.8	1.6	1.6	1.8	2.0	2.0	2.3
80°	2.0	1.8	1.6	1.8	1.6	1.3	1.6	1.8	1.8	2.0	2.0
82.5°	1.6	1.6	1.6	1.6	1.3	1.3	1.6	1.6	1.8	2.0	2.0
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6	1.8	1.8
87.5°	0.7	0.7	0.7	1.0	1.0	1.3	1.3	1.3	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):

	165°	170°	175°	180°
0°	118.0	118.0	118.0	118.0
2.5°	89.1	88.8	87.8	88.1
5°	62.4	60.9	62.0	61.7
7.5°	45.9	45.6	45.3	45.9
10°	39.2	39.2	38.9	39.2
12.5°	36.8	36.8	36.8	36.8
15°	35.1	35.1	34.8	34.8
17.5°	33.0	33.0	33.0	32.7
20°	31.0	30.7	30.7	30.7
22.5°	28.7	28.4	28.4	28.4
25°	26.3	26.1	26.1	26.1
27.5°	24.1	23.8	23.5	23.5
30°	21.8	21.5	21.2	21.2
32.5°	19.4	19.2	19.0	19.0
35°	17.4	17.4	17.1	16.9
37.5°	15.6	15.6	15.6	15.6
40°	14.3	14.6	14.6	14.6
42.5°	13.6	13.9	14.0	14.3
45°	13.0	13.6	13.9	13.9
47.5°	12.8	13.0	13.3	13.3
50°	11.8	11.5	11.5	11.5
52.5°	9.5	8.9	8.7	8.5
55°	6.9	6.7	6.1	6.1
57.5°	4.8	4.8	4.7	4.7
60°	3.8	3.8	3.6	3.8
62.5°	3.3	3.3	3.3	3.3
65°	3.1	3.1	3.1	3.1
67.5°	3.1	3.1	3.1	3.1
69°	2.8	2.8	2.8	2.8
70°	2.8	2.8	2.8	2.8
72.5°	2.6	2.6	2.6	2.6
75°	2.3	2.6	2.6	2.6
77.5°	2.3	2.3	2.3	2.3
80°	2.0	2.0	2.3	2.3
82.5°	2.0	2.0	2.0	2.0
85°	1.8	1.8	2.0	2.0
87.5°	1.6	1.6	1.8	1.8
90°	0.0	0.0	0.0	0.0

(END OF REPORT)