

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: P180756

Luminaire Tested: **ICM-E01-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180756
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-E01-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: (21) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 1597.6 lumens
Efficiency: N/A
Efficacy: 64.7 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

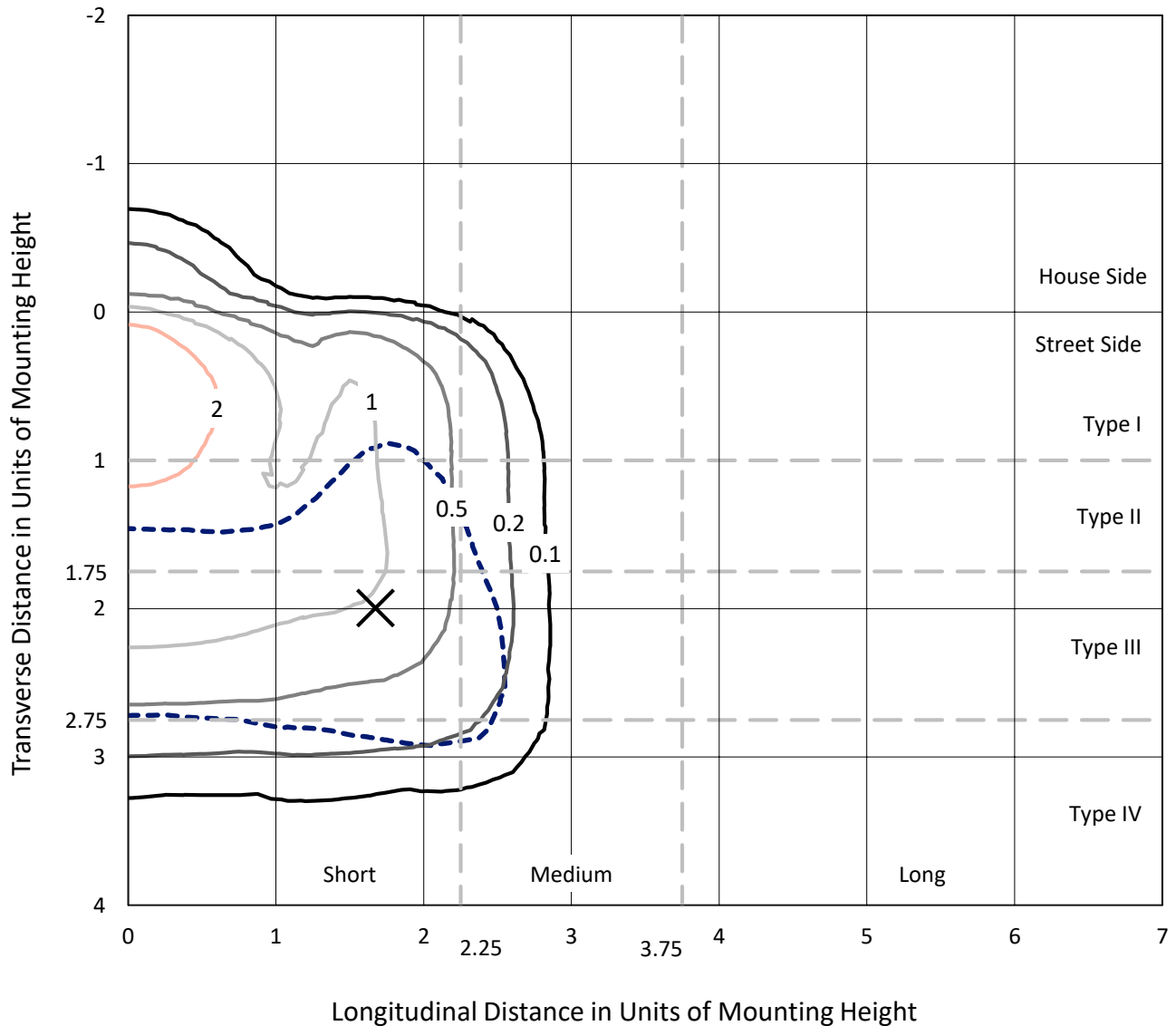


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Iso-Footcandle Lines of Horizontal Illumination

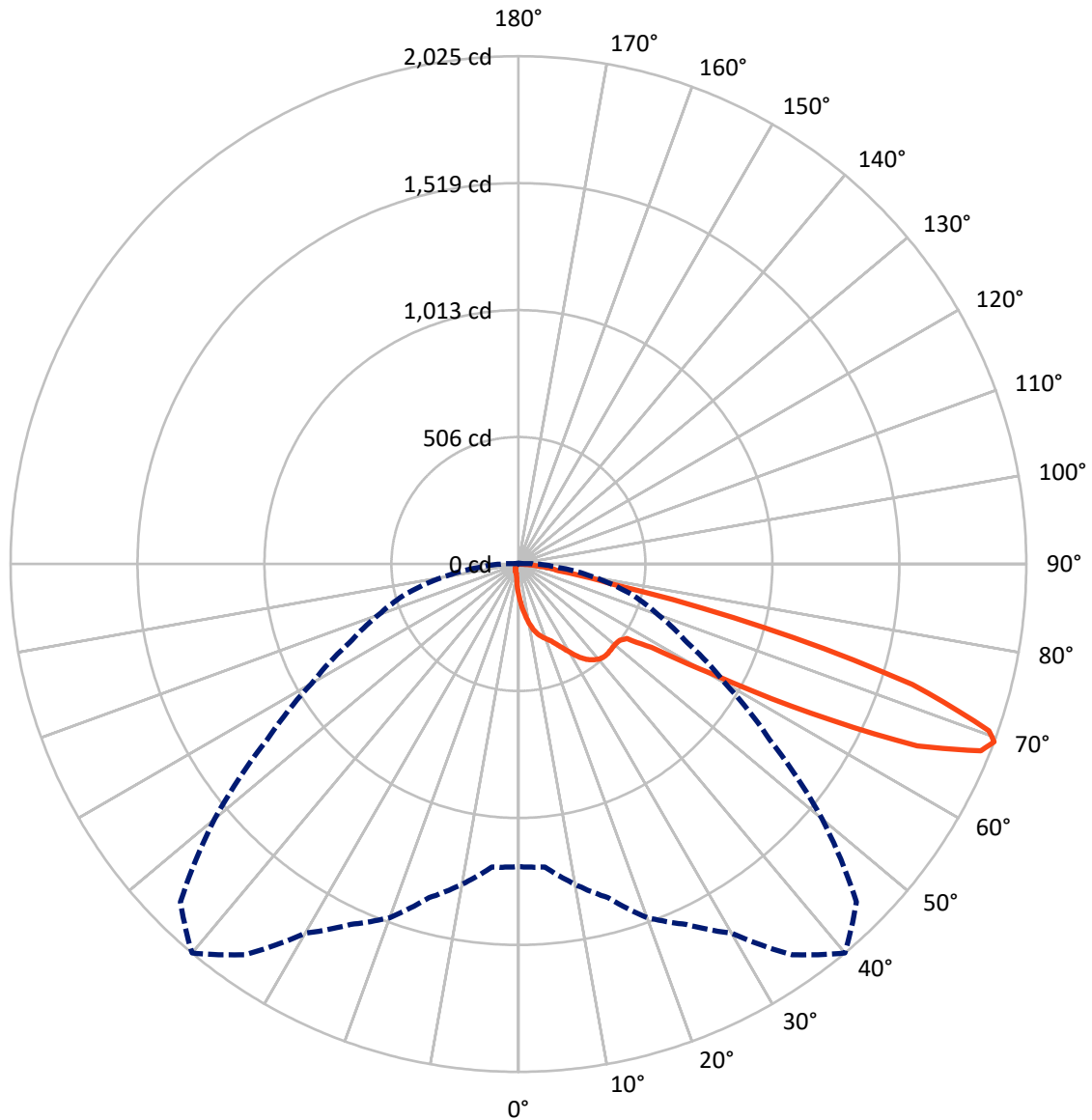
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 3.6 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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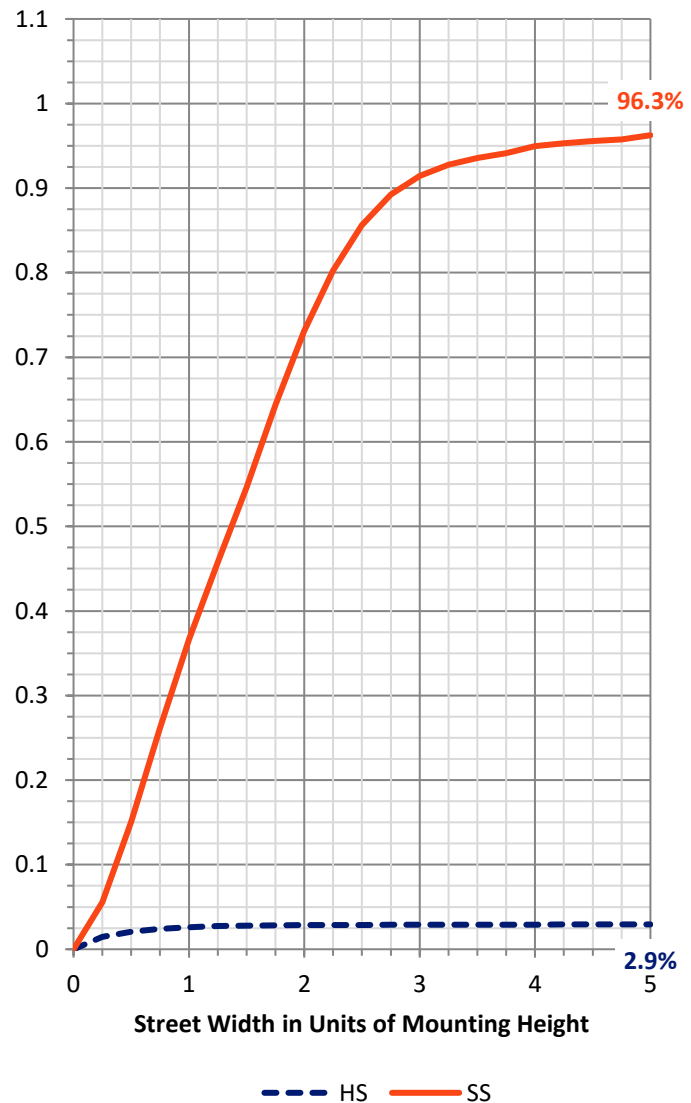
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	47.6	0.0	47.6
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	1550.0	0.0	1550.0
	% Fixture	97.0	0.0	97.0
Total	Lumens	1597.6	0.0	1597.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	12.4	0.8
10°-20°	42.8	2.7
20°-30°	81.8	5.1
30°-40°	136.1	8.5
40°-50°	184.1	11.5
50°-60°	288.0	18.0
60°-70°	592.1	37.1
70°-80°	238.2	14.9
80°-90°	22.0	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°	1597.6	100.0
0°-180°	1597.6	100.0



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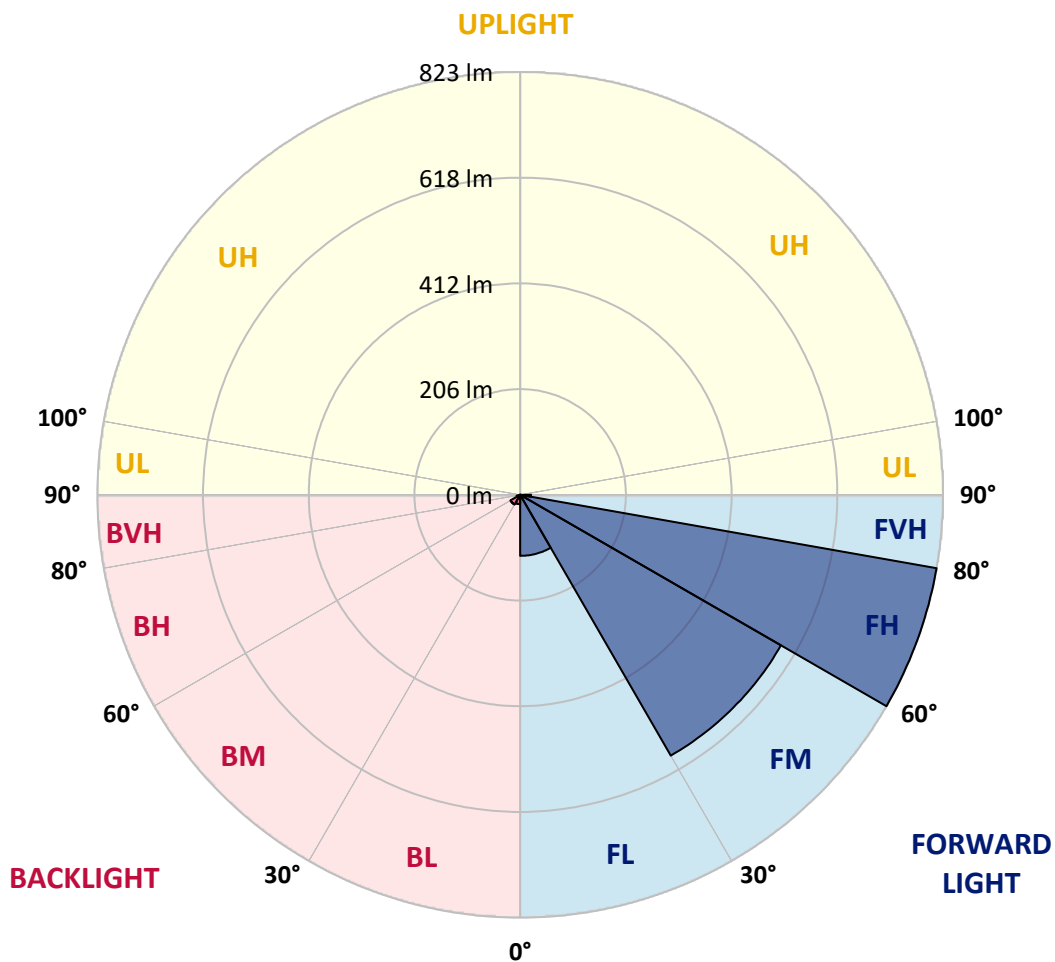
CATALOG NUMBER: ICM-E01-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	118.9	7.4			
FM (30°-60°)	586.5	36.7			
FH (60°-80°)	823.4	51.5			G1/1800
FVH (80°-90°)	21.2	1.3			G1/100
BL (0°-30°)	18.1	1.1	B0/110		
BM (30°-60°)	21.7	1.4	B0/220		
BH (60°-80°)	6.9	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°	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7
2.5°	160.9	159.1	157.0	157.0	154.4	154.4	152.8	148.7	148.1	145.8	143.4
5°	205.4	203.9	201.2	198.9	196.8	193.1	190.5	185.6	180.1	174.8	170.1
7.5°	248.8	248.1	243.4	242.6	239.2	233.2	227.9	220.7	211.2	203.9	195.3
10°	289.2	287.4	286.3	281.9	276.8	270.3	262.2	253.3	242.3	230.8	218.5
12.5°	321.1	320.1	315.4	313.5	308.3	301.8	291.5	280.0	269.0	254.1	239.7
15°	344.9	343.1	339.9	337.1	330.8	325.0	315.6	303.1	289.7	273.5	256.2
17.5°	364.8	361.4	360.7	356.2	349.7	342.8	332.4	320.8	305.1	288.9	270.0
20°	391.5	386.8	385.2	378.7	371.1	361.7	349.7	335.3	318.8	300.9	281.6
22.5°	422.9	419.5	416.1	410.3	400.7	387.4	369.8	354.0	333.1	313.5	292.6
25°	467.4	464.6	459.1	451.2	439.2	423.2	402.0	379.0	354.3	329.2	304.7
27.5°	510.6	508.0	504.0	498.0	484.4	466.9	440.7	411.4	380.3	349.9	322.7
30°	551.2	548.7	544.8	538.9	526.8	509.6	480.0	448.6	409.9	374.5	341.8
32.5°	594.9	594.1	589.6	581.0	570.5	547.3	515.1	481.3	442.0	401.2	363.0
35°	644.3	638.3	634.1	625.5	607.6	582.8	545.1	508.2	466.9	425.0	382.3
37.5°	686.1	680.5	675.2	664.2	642.5	610.8	568.2	527.6	484.9	442.2	398.8
40°	716.8	714.0	707.6	693.2	668.9	631.3	585.2	540.9	498.0	455.1	412.2
42.5°	739.5	735.2	728.1	713.1	684.4	641.4	592.0	546.4	504.0	463.0	420.8
45°	747.9	744.3	737.8	721.5	690.3	644.3	591.7	544.8	504.3	465.3	426.6
47.5°	743.0	739.4	733.6	718.4	687.7	640.9	587.0	540.4	501.7	466.0	431.8
50°	726.5	724.4	719.9	707.2	679.6	634.3	582.8	538.0	501.1	470.0	439.2
52.5°	724.9	723.6	718.1	705.3	677.3	632.3	582.3	539.4	505.6	475.0	444.4
55°	885.9	867.3	825.7	790.3	732.3	663.2	608.7	560.6	524.5	494.6	473.1
57.5°	1259.1	1231.4	1176.7	1109.4	975.9	844.7	739.8	663.9	626.5	612.9	621.0
60°	1433.9	1428.9	1420.3	1388.4	1320.0	1207.3	1081.6	945.8	891.4	886.6	903.2
62.5°	1516.8	1513.7	1516.3	1512.4	1491.2	1458.2	1422.1	1363.5	1309.6	1274.8	1200.9
65°	1555.1	1557.1	1572.1	1583.8	1586.4	1595.1	1621.5	1694.5	1747.9	1658.1	1453.2
67.5°	1458.0	1470.2	1504.6	1547.5	1597.7	1646.3	1724.8	1878.8	1988.4	1883.0	1591.9
69°	1207.0	1213.0	1296.8	1377.6	1500.4	1586.1	1700.0	1901.8	2025.0	1906.0	1580.9
70°	950.2	955.7	1045.5	1155.4	1363.0	1473.4	1622.3	1862.8	1990.8	1875.4	1524.4
72.5°	428.7	420.8	452.5	511.4	736.9	912.3	1172.7	1509.2	1642.4	1502.4	1140.5
75°	299.4	296.0	299.4	299.6	334.7	431.8	544.8	818.1	1011.7	873.0	544.8
77.5°	231.9	229.5	227.2	224.6	228.7	256.2	267.2	290.2	376.8	356.5	207.8
80°	183.4	181.4	187.2	185.3	185.3	188.5	186.3	177.7	161.5	149.7	134.0
82.5°	85.3	85.9	85.9	93.2	112.3	131.1	137.1	128.5	114.1	97.1	78.2
85°	8.1	9.1	15.4	23.8	47.3	53.4	53.7	44.5	44.5	35.1	28.3
87.5°	0.0	0.3	0.3	0.3	2.3	6.5	5.5	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°	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7
2.5°	139.3	138.4	135.3	132.2	129.3	126.1	123.3	120.4	117.2	114.9	112.0
5°	162.8	157.0	150.5	144.2	138.0	131.3	124.6	118.5	112.3	106.5	101.0
7.5°	186.6	175.3	166.4	155.2	145.0	134.8	125.4	115.6	106.8	98.4	90.5
10°	206.8	193.1	179.3	164.8	150.2	136.7	123.5	112.0	100.2	90.0	80.4
12.5°	223.3	206.0	188.9	170.9	154.4	137.1	120.9	107.1	93.2	81.7	71.7
15°	238.1	218.2	197.9	176.9	156.0	136.4	118.3	101.0	86.9	73.8	62.5
17.5°	250.2	227.4	204.4	180.8	158.3	135.3	114.9	96.8	80.4	66.7	55.7
20°	260.7	236.8	212.0	185.6	159.9	135.1	112.0	91.6	74.6	60.2	49.5
22.5°	270.3	246.5	219.8	191.5	162.2	134.8	109.4	87.6	69.6	55.3	44.5
25°	281.3	256.2	228.2	197.9	166.4	135.8	107.8	84.6	65.2	50.5	40.6
27.5°	293.7	267.2	238.1	205.7	171.9	138.0	107.3	81.1	61.2	46.0	37.4
30°	310.9	280.3	248.1	213.6	176.9	140.3	106.8	79.1	57.3	42.7	34.3
32.5°	326.0	293.1	259.1	221.7	182.4	142.6	106.5	76.2	53.7	39.3	31.9
35°	342.0	304.8	268.5	229.5	187.2	145.2	106.2	74.0	50.2	35.8	29.6
37.5°	355.9	314.8	275.8	236.3	192.4	147.6	106.5	72.2	47.1	32.9	27.4
40°	367.7	325.0	283.9	242.6	197.9	151.3	106.8	70.4	44.0	30.3	25.7
42.5°	378.1	334.7	292.6	249.7	204.1	155.4	108.4	68.8	41.4	28.0	23.8
45°	386.2	343.6	302.0	259.6	214.3	162.2	111.3	67.8	38.7	26.0	22.2
47.5°	394.6	356.7	318.0	275.4	229.2	173.0	116.2	67.5	36.7	24.4	20.9
50°	406.1	369.8	332.1	291.3	242.9	184.0	122.2	67.8	34.0	22.8	19.6
52.5°	414.5	383.2	350.4	319.0	275.4	217.5	145.5	72.5	32.7	21.5	18.0
55°	464.0	458.5	459.3	464.6	430.8	370.0	243.4	104.7	38.5	24.4	17.8
57.5°	654.2	673.6	684.8	684.7	628.8	521.6	326.9	134.5	42.9	28.3	21.2
60°	904.5	889.8	869.1	818.1	744.0	595.4	365.6	144.7	37.1	22.5	19.3
62.5°	1125.6	1039.7	963.6	880.9	783.8	621.0	373.5	143.9	32.5	17.0	13.6
65°	1263.5	1109.1	986.1	882.4	768.1	599.5	353.3	132.2	27.4	13.9	11.3
67.5°	1296.5	1071.6	897.7	765.5	641.7	466.6	259.4	99.4	21.5	11.5	10.0
69°	1224.5	952.6	743.7	593.8	466.9	309.6	160.5	62.8	16.5	10.5	9.1
70°	1126.3	828.6	605.9	476.6	345.7	217.5	112.3	44.2	13.3	9.7	8.4
72.5°	724.7	435.3	297.9	207.3	142.6	86.6	44.0	19.9	10.2	8.1	6.8
75°	281.0	160.9	116.7	88.7	69.4	48.2	26.7	12.8	8.7	6.8	5.2
77.5°	138.4	106.0	86.6	59.4	34.5	21.5	14.4	10.0	7.1	4.9	3.4
80°	109.4	72.7	43.4	27.0	20.4	15.4	11.0	8.1	5.2	3.2	2.3
82.5°	56.0	30.6	22.5	18.3	15.2	12.0	8.9	5.8	3.4	2.1	1.9
85°	17.5	12.8	11.5	11.3	10.5	8.7	6.3	3.6	2.1	1.3	1.3
87.5°	1.3	1.9	2.3	1.9	2.1	1.9	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°	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7	120.7
2.5°	110.0	106.8	103.9	102.0	98.7	97.4	96.0	95.5	93.2	93.7	91.6
5°	96.0	90.5	86.3	82.1	78.2	75.3	73.0	70.1	67.8	66.7	64.7
7.5°	83.4	76.4	70.9	66.5	61.8	58.1	55.0	52.8	50.8	48.7	47.6
10°	72.5	64.9	58.6	54.1	49.8	46.6	44.2	42.7	41.4	40.6	40.3
12.5°	62.3	55.0	49.2	45.3	41.9	40.3	39.3	38.5	38.2	38.0	38.0
15°	54.4	47.1	42.7	39.8	38.2	37.4	37.1	36.7	36.1	35.8	35.8
17.5°	47.1	41.6	38.5	36.9	36.1	35.6	35.1	34.5	34.0	33.8	33.8
20°	42.1	37.7	36.1	35.1	34.3	33.8	32.9	32.5	32.2	31.9	31.6
22.5°	38.2	35.3	34.3	33.5	32.5	31.6	31.2	30.6	30.1	29.9	29.6
25°	35.3	33.5	32.7	31.6	30.6	29.9	29.0	28.3	27.7	27.4	27.0
27.5°	33.2	31.9	30.9	29.6	28.6	27.7	27.0	26.1	25.7	25.1	24.8
30°	31.4	30.1	28.7	27.7	26.4	25.7	24.6	23.8	23.5	23.1	22.5
32.5°	29.6	28.3	27.0	25.7	24.4	23.3	22.8	21.8	21.2	20.9	20.4
35°	27.4	26.1	24.6	23.5	22.2	21.2	20.4	19.6	19.1	18.6	18.3
37.5°	25.7	24.1	22.5	21.2	20.2	19.1	18.3	17.5	17.0	16.5	16.2
40°	23.5	22.0	20.4	19.1	18.0	17.3	16.5	15.7	15.2	14.9	14.9
42.5°	21.8	19.9	18.3	17.3	16.5	15.4	14.7	13.9	13.6	13.3	13.6
45°	19.9	18.0	16.7	15.7	14.9	13.9	13.1	12.6	12.3	12.6	12.8
47.5°	18.3	16.5	15.2	14.4	13.6	12.8	12.0	11.5	11.5	12.0	12.6
50°	16.7	14.9	13.9	13.3	12.6	11.8	10.7	10.5	10.7	11.3	11.8
52.5°	15.2	13.1	12.3	12.0	11.3	10.5	9.7	9.4	9.7	10.2	10.0
55°	13.6	11.5	11.3	11.0	10.2	9.1	8.4	8.4	8.4	8.1	7.6
57.5°	13.1	10.2	10.0	9.7	8.9	7.8	7.3	6.8	6.5	5.8	5.5
60°	13.6	9.1	9.1	8.7	7.8	6.8	6.0	5.2	4.7	4.2	4.2
62.5°	11.0	8.4	8.1	7.6	6.5	5.5	4.7	3.9	3.6	3.4	3.4
65°	8.9	7.6	7.1	6.3	5.5	4.5	3.6	3.2	2.9	2.9	3.2
67.5°	8.1	6.8	6.0	5.2	4.5	3.4	2.9	2.6	2.6	2.9	2.9
69°	7.6	6.3	5.5	4.7	3.9	3.2	2.6	2.6	2.6	2.6	2.9
70°	7.1	6.0	5.2	4.5	3.4	2.6	2.3	2.3	2.6	2.6	2.9
72.5°	5.5	4.7	4.5	3.6	2.6	2.3	2.1	2.3	2.3	2.6	2.6
75°	4.2	3.4	3.4	2.9	2.1	1.9	1.9	2.1	2.1	2.3	2.3
77.5°	2.9	2.3	2.3	2.1	1.9	1.6	1.6	1.9	2.1	2.1	2.3
80°	2.1	1.9	1.6	1.9	1.6	1.3	1.6	1.9	1.9	2.1	2.1
82.5°	1.6	1.6	1.6	1.6	1.3	1.3	1.6	1.6	1.9	2.1	2.1
85°	1.3	1.3	1.3	1.3	1.3	1.3	1.3	1.6	1.6	1.9	1.9
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°	120.7	120.7	120.7	120.7
2.5°	91.1	90.8	89.8	90.0
5°	63.8	62.3	63.3	63.1
7.5°	46.9	46.6	46.3	46.9
10°	40.0	40.0	39.8	40.0
12.5°	37.7	37.7	37.7	37.7
15°	35.8	35.8	35.6	35.6
17.5°	33.8	33.8	33.8	33.5
20°	31.6	31.4	31.4	31.4
22.5°	29.3	29.0	29.0	29.0
25°	27.0	26.7	26.7	26.7
27.5°	24.6	24.4	24.1	24.1
30°	22.2	22.0	21.8	21.8
32.5°	19.9	19.6	19.3	19.3
35°	17.8	17.8	17.5	17.3
37.5°	16.0	16.0	16.0	16.0
40°	14.7	14.9	14.9	14.9
42.5°	13.9	14.1	14.4	14.7
45°	13.3	13.9	14.1	14.1
47.5°	13.1	13.3	13.6	13.6
50°	12.0	11.8	11.8	11.8
52.5°	9.7	9.1	8.9	8.7
55°	7.1	6.8	6.3	6.3
57.5°	4.9	4.9	4.7	4.7
60°	3.9	3.9	3.6	3.9
62.5°	3.4	3.4	3.4	3.4
65°	3.2	3.2	3.2	3.2
67.5°	3.2	3.2	3.2	3.2
69°	2.9	2.9	2.9	2.9
70°	2.9	2.9	2.9	2.9
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°	2.1	2.1	2.3	2.3
82.5°	2.1	2.1	2.1	2.1
85°	1.9	1.9	2.1	2.1
87.5°	1.6	1.6	1.9	1.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)