

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: P180771

Luminaire Tested: **ICM-F02-LED-E1-SL4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P180771
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-F02-LED-E1-SL4-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(2) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ SPILL LIGHT CONTROL AND HOUSE SIDE SHIELD
Light Source: (14) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 2637.6 lumens
Efficiency: N/A
Efficacy: 48.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.33' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G1

Input Watts (W): 55
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

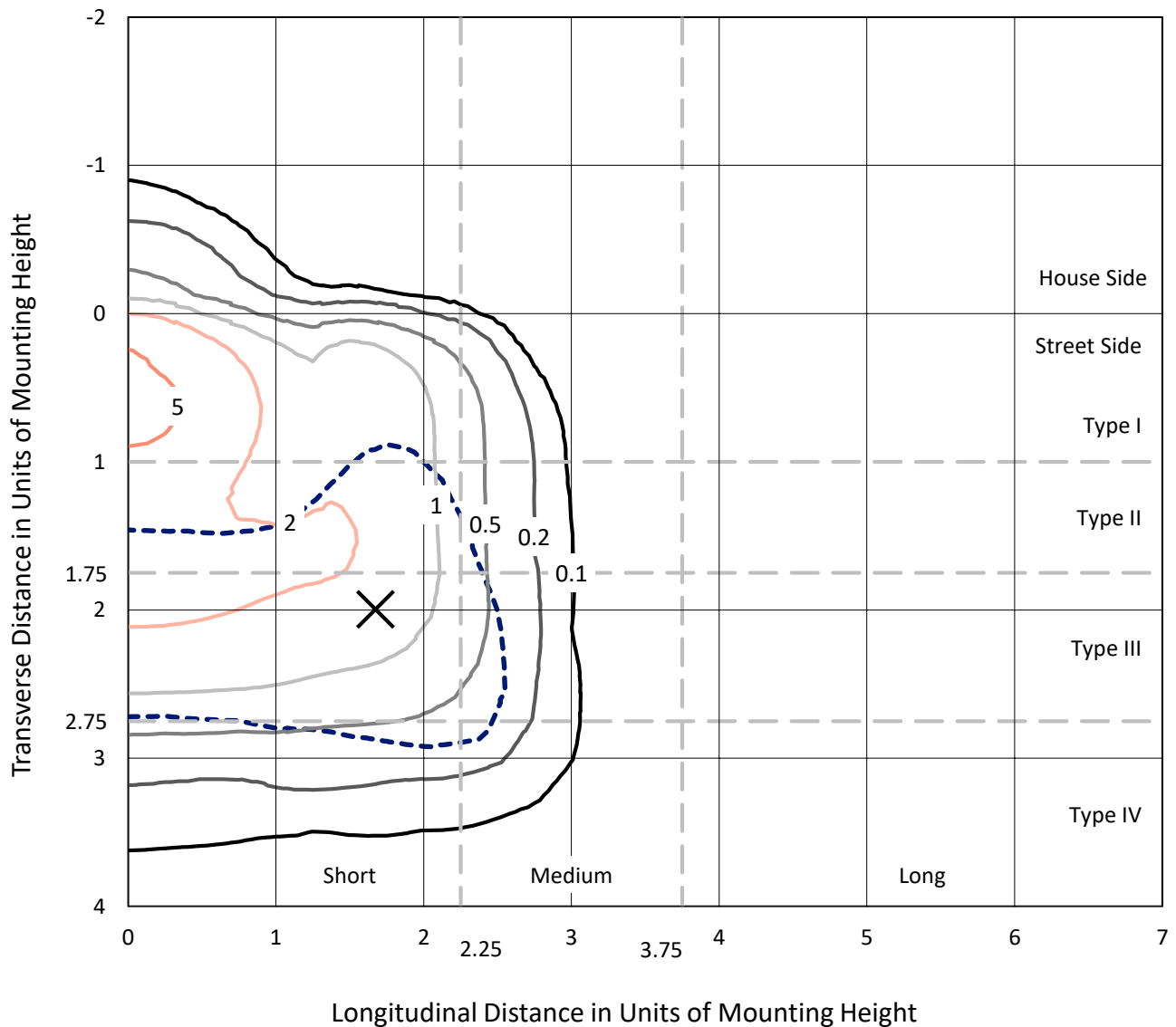


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Iso-Footcandle Lines of Horizontal Illumination

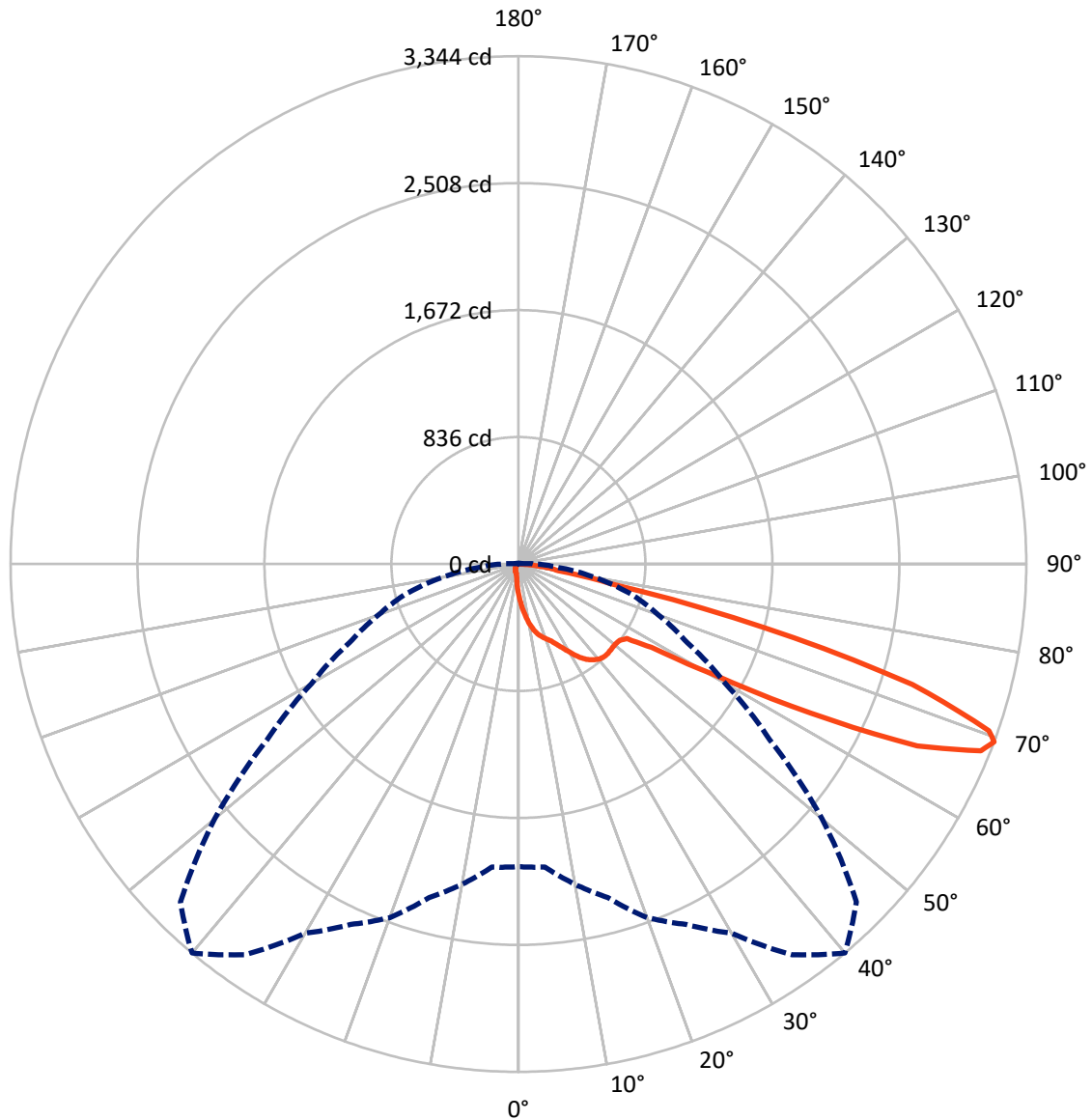
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 5.9 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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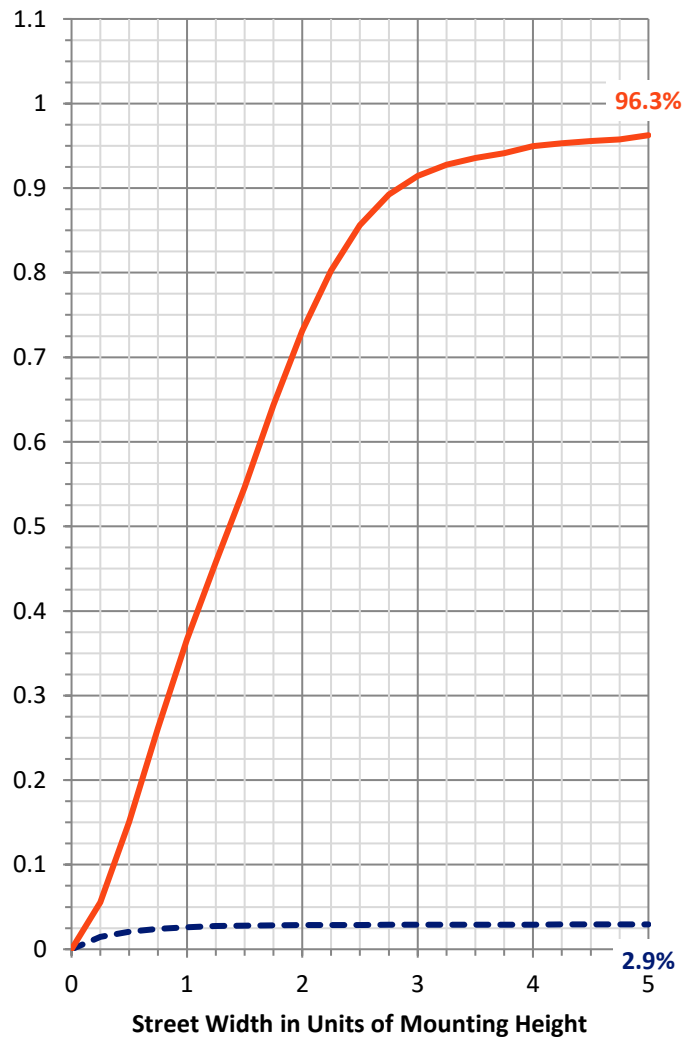
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	78.5	0.0	78.5
	% Fixture	3.0	0.0	3.0
Street Side	Lumens	2559.1	0.0	2559.1
	% Fixture	97.0	0.0	97.0
Total	Lumens	2637.6	0.0	2637.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	20.5	0.8
10°-20°	70.6	2.7
20°-30°	135.1	5.1
30°-40°	224.7	8.5
40°-50°	304.0	11.5
50°-60°	475.5	18.0
60°-70°	977.6	37.1
70°-80°	393.3	14.9
80°-90°	36.4	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°	2637.6	100.0
0°-180°	2637.6	100.0



--- HS — SS

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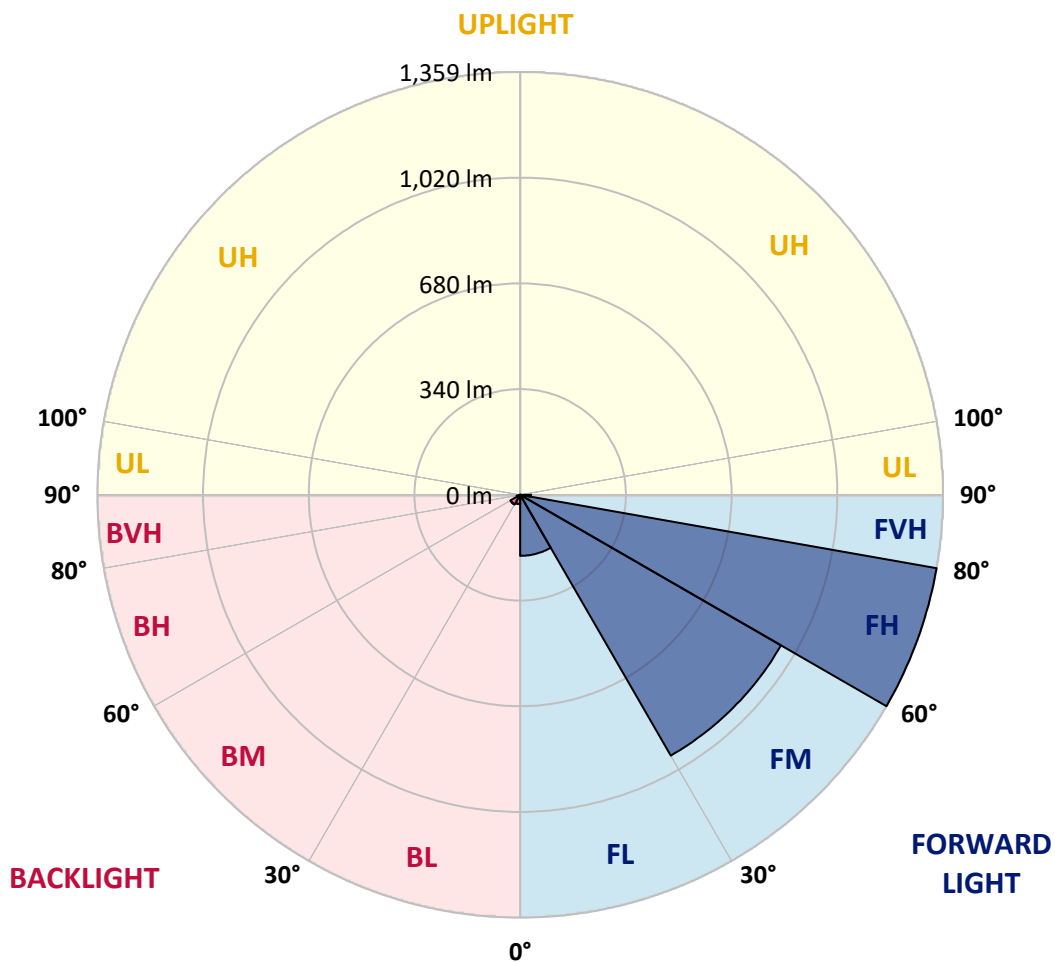
CATALOG NUMBER: ICM-F02-LED-E1-SL4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.3	7.4			
FM (30°-60°)	968.3	36.7			
FH (60°-80°)	1359.5	51.5			G1/1800
FVH (80°-90°)	35.0	1.3			G1/100
BL (0°-30°)	29.9	1.1	B0/110		
BM (30°-60°)	35.9	1.4	B0/220		
BH (60°-80°)	11.5	0.4	B0/110		G0/110
BVH (80°-90°)	1.3	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°	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2
2.5°	265.8	262.7	259.3	259.3	254.9	254.9	252.4	245.4	244.6	240.7	236.7
5°	339.2	336.6	332.3	328.4	324.9	318.9	314.5	306.3	297.3	288.7	280.8
7.5°	410.9	409.6	401.9	400.6	394.9	385.0	376.4	364.3	348.7	336.6	322.3
10°	477.5	474.4	472.7	465.4	457.1	446.3	432.9	418.2	400.1	381.1	360.7
12.5°	530.1	528.5	520.7	517.7	509.0	498.2	481.3	462.3	444.2	419.5	395.8
15°	569.5	566.4	561.3	556.6	546.1	536.7	521.1	500.4	478.3	451.5	423.0
17.5°	602.3	596.7	595.4	588.1	577.3	566.0	548.7	529.8	503.8	477.0	446.0
20°	646.4	638.6	636.0	625.2	612.7	597.1	577.3	553.5	526.2	496.9	464.9
22.5°	698.2	692.7	687.0	677.5	661.5	639.4	610.5	584.7	550.0	517.7	483.1
25°	771.7	767.0	757.9	744.9	725.0	698.7	663.7	625.7	585.0	543.5	503.0
27.5°	843.0	838.7	832.2	822.2	799.8	770.9	727.6	679.3	627.8	577.7	532.7
30°	910.0	906.1	899.6	889.7	869.8	841.3	792.5	740.6	676.7	618.3	564.3
32.5°	982.1	980.8	973.5	959.3	942.0	903.4	850.3	794.6	729.8	662.4	599.3
35°	1063.8	1053.9	1047.0	1032.7	1003.3	962.2	900.0	839.1	770.9	701.7	631.3
37.5°	1132.9	1123.4	1114.8	1096.7	1060.8	1008.5	938.1	871.1	800.7	730.2	658.5
40°	1183.4	1178.7	1168.4	1144.6	1104.4	1042.2	966.1	893.1	822.2	751.4	680.6
42.5°	1221.0	1213.8	1202.1	1177.4	1129.9	1059.1	977.4	902.2	832.2	764.4	694.8
45°	1234.9	1228.8	1218.1	1191.3	1139.8	1063.8	976.9	899.6	832.7	768.3	704.3
47.5°	1226.7	1220.7	1211.2	1186.1	1135.5	1058.1	969.2	892.3	828.3	769.6	712.9
50°	1199.4	1196.0	1188.7	1167.5	1122.1	1047.4	962.2	888.4	827.4	776.0	725.0
52.5°	1196.8	1194.7	1185.7	1164.5	1118.2	1043.9	961.4	890.5	834.8	784.3	733.7
55°	1462.6	1431.9	1363.3	1304.9	1208.9	1094.9	1005.0	925.5	865.9	816.7	781.2
57.5°	2078.8	2032.9	1942.6	1831.6	1611.3	1394.8	1221.5	1096.2	1034.4	1011.9	1025.3
60°	2367.4	2359.2	2344.9	2292.2	2179.5	1993.2	1785.8	1561.6	1471.7	1463.9	1491.2
62.5°	2504.4	2499.2	2503.6	2497.0	2462.1	2407.5	2347.9	2251.2	2162.2	2104.7	1982.8
65°	2567.5	2570.9	2595.6	2615.0	2619.3	2633.6	2677.2	2797.8	2885.9	2737.7	2399.4
67.5°	2407.2	2427.5	2484.1	2554.9	2637.9	2718.2	2847.9	3102.0	3283.0	3108.9	2628.4
69°	1992.8	2002.7	2140.9	2274.5	2477.1	2618.9	2806.8	3140.0	3343.5	3146.9	2610.2
70°	1568.9	1578.0	1726.2	1907.6	2250.3	2432.7	2678.5	3075.6	3286.9	3096.3	2516.9
72.5°	707.7	694.8	747.1	844.3	1216.8	1506.2	1936.2	2491.8	2711.7	2480.6	1883.0
75°	494.3	488.7	494.3	494.7	552.7	712.9	899.6	1350.7	1670.4	1441.4	899.6
77.5°	382.8	379.0	375.1	370.7	377.7	423.0	441.1	479.2	622.2	588.5	343.1
80°	302.9	299.4	308.9	306.0	306.0	311.1	307.6	293.4	266.6	247.2	221.2
82.5°	140.8	141.8	141.8	153.9	185.4	216.5	226.4	212.2	188.4	160.3	129.2
85°	13.4	15.2	25.5	39.3	78.2	88.2	88.6	73.5	73.5	57.9	46.7
87.5°	0.0	0.5	0.5	0.5	3.9	10.8	9.1	2.6	1.3	1.3	2.1
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°	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2
2.5°	229.9	228.6	223.4	218.2	213.5	208.3	203.5	198.8	193.6	189.7	184.9
5°	268.7	259.3	248.5	238.0	227.7	216.9	205.7	195.7	185.4	175.8	166.8
7.5°	308.1	289.5	274.8	256.2	239.4	222.5	207.0	191.0	176.3	162.4	149.5
10°	341.3	318.9	296.0	272.2	248.0	225.6	203.9	184.9	165.5	148.7	132.7
12.5°	368.6	340.1	312.0	282.1	254.9	226.4	199.6	176.7	153.9	134.8	118.4
15°	393.2	360.4	326.7	292.1	257.5	225.1	195.3	166.8	143.4	121.9	103.3
17.5°	413.1	375.4	337.5	298.6	261.4	223.4	189.7	159.9	132.7	110.1	92.0
20°	430.3	391.1	350.0	306.3	264.0	223.0	184.9	151.3	123.2	99.3	81.7
22.5°	446.3	407.0	363.0	316.3	267.9	222.5	180.7	144.7	115.0	91.2	73.5
25°	464.5	423.0	376.7	326.7	274.8	224.3	178.0	139.5	107.6	83.3	67.0
27.5°	484.8	441.1	393.2	339.6	283.9	227.7	177.1	134.0	101.1	76.1	61.8
30°	513.3	462.8	409.6	352.6	292.1	231.6	176.3	130.5	94.6	70.4	56.6
32.5°	538.4	483.9	427.7	366.0	301.1	235.4	175.8	125.8	88.6	64.8	52.7
35°	564.7	503.4	443.4	379.0	308.9	239.8	175.4	122.3	83.0	59.2	48.8
37.5°	587.6	519.8	455.4	390.1	317.6	243.7	175.8	119.3	77.8	54.4	45.4
40°	607.1	536.7	468.8	400.6	326.7	249.8	176.3	116.2	72.6	50.1	42.3
42.5°	624.4	552.7	483.1	412.2	337.0	256.7	178.9	113.7	68.3	46.2	39.3
45°	637.8	567.4	498.6	428.7	353.9	267.9	183.6	111.9	63.9	42.8	36.7
47.5°	651.6	588.9	525.0	454.5	378.5	285.6	191.8	111.4	60.5	40.2	34.6
50°	670.6	610.5	548.3	480.9	400.9	303.7	201.8	111.9	56.2	37.6	32.4
52.5°	684.5	632.6	578.6	526.7	454.5	359.1	240.3	119.7	54.0	35.4	29.8
55°	766.1	757.0	758.3	767.0	711.3	611.0	401.9	172.8	63.5	40.2	29.4
57.5°	1080.2	1112.2	1130.8	1130.3	1038.3	861.1	539.6	222.0	70.9	46.7	35.0
60°	1493.3	1469.1	1435.0	1350.7	1228.4	983.0	603.6	239.0	61.4	37.1	32.0
62.5°	1858.4	1716.7	1591.0	1454.4	1294.1	1025.3	616.6	237.7	53.6	28.1	22.5
65°	2086.2	1831.2	1628.1	1457.0	1268.2	989.9	583.4	218.2	45.4	22.9	18.6
67.5°	2140.6	1769.4	1482.1	1263.8	1059.4	770.4	428.2	164.2	35.4	19.0	16.5
69°	2021.8	1572.8	1228.0	980.4	770.9	511.2	264.8	103.7	27.3	17.3	15.2
70°	1859.7	1368.0	1000.3	786.8	570.8	359.1	185.4	73.0	22.0	16.0	13.9
72.5°	1196.5	718.5	491.7	342.2	235.4	143.0	72.6	32.8	16.8	13.4	11.3
75°	464.1	265.8	192.7	146.5	114.5	79.5	44.1	21.2	14.2	11.3	8.7
77.5°	228.6	175.0	143.0	98.0	57.0	35.4	23.7	16.5	11.6	8.2	5.6
80°	180.7	120.1	71.7	44.5	33.7	25.5	18.1	13.4	8.7	5.2	3.9
82.5°	92.5	50.5	37.1	30.2	25.0	19.9	14.7	9.5	5.6	3.4	3.1
85°	28.9	21.2	19.0	18.6	17.3	14.2	10.3	6.0	3.4	2.1	2.1
87.5°	2.1	3.1	3.9	3.1	3.4	3.1	3.9	2.6	1.8	1.8	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):

	110°	115°	120°	125°	130°	135°	140°	145°	150°	155°	160°
0°	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2	199.2
2.5°	181.5	176.3	171.5	168.6	162.9	160.7	158.6	157.7	153.9	154.7	151.3
5°	158.6	149.5	142.6	135.6	129.2	124.5	120.6	115.8	111.9	110.1	106.7
7.5°	137.9	126.1	117.1	109.8	102.0	95.9	90.7	87.3	83.8	80.4	78.6
10°	119.7	107.2	96.7	89.4	82.1	76.9	73.0	70.4	68.3	67.0	66.5
12.5°	102.8	90.7	81.2	74.8	69.1	66.5	64.8	63.5	63.1	62.7	62.7
15°	89.9	77.8	70.4	65.7	63.1	61.8	61.4	60.5	59.6	59.2	59.2
17.5°	77.8	68.7	63.5	60.9	59.6	58.8	57.9	57.0	56.2	55.7	55.7
20°	69.6	62.2	59.6	57.9	56.6	55.7	54.4	53.6	53.1	52.7	52.3
22.5°	63.1	58.3	56.6	55.3	53.6	52.3	51.4	50.5	49.7	49.3	48.8
25°	58.3	55.3	54.0	52.3	50.5	49.3	48.0	46.7	45.8	45.4	44.5
27.5°	54.9	52.7	51.0	48.8	47.1	45.8	44.5	43.2	42.3	41.5	41.0
30°	51.8	49.7	47.5	45.8	43.6	42.3	40.7	39.3	38.9	38.0	37.1
32.5°	48.8	46.7	44.5	42.3	40.2	38.4	37.6	35.9	35.0	34.6	33.7
35°	45.4	43.2	40.7	38.9	36.7	35.0	33.7	32.4	31.5	30.7	30.2
37.5°	42.3	39.7	37.1	35.0	33.3	31.5	30.2	28.9	28.1	27.3	26.8
40°	38.9	36.3	33.7	31.5	29.8	28.6	27.3	26.0	25.0	24.7	24.7
42.5°	35.9	32.8	30.2	28.6	27.3	25.5	24.2	22.9	22.5	22.0	22.5
45°	32.8	29.8	27.6	26.0	24.7	22.9	21.6	20.7	20.3	20.7	21.2
47.5°	30.2	27.3	25.0	23.7	22.5	21.2	19.9	19.0	19.0	19.9	20.7
50°	27.6	24.7	22.9	22.0	20.7	19.4	17.7	17.3	17.7	18.6	19.4
52.5°	25.0	21.6	20.3	19.9	18.6	17.3	16.0	15.5	16.0	16.8	16.5
55°	22.5	19.0	18.6	18.1	16.8	15.2	13.9	13.9	13.9	13.4	12.6
57.5°	21.6	16.8	16.5	16.0	14.7	12.9	12.1	11.3	10.8	9.5	9.1
60°	22.5	15.2	15.2	14.2	12.9	11.3	10.0	8.7	7.8	6.9	6.9
62.5°	18.1	13.9	13.4	12.6	10.8	9.1	7.8	6.5	6.0	5.6	5.6
65°	14.7	12.6	11.6	10.3	9.1	7.3	6.0	5.2	4.7	4.7	5.2
67.5°	13.4	11.3	10.0	8.7	7.3	5.6	4.7	4.3	4.3	4.7	4.7
69°	12.6	10.3	9.1	7.8	6.5	5.2	4.3	4.3	4.3	4.3	4.7
70°	11.6	10.0	8.7	7.3	5.6	4.3	3.9	3.9	4.3	4.3	4.7
72.5°	9.1	7.8	7.3	6.0	4.3	3.9	3.4	3.9	3.9	4.3	4.3
75°	6.9	5.6	5.6	4.7	3.4	3.1	3.1	3.4	3.4	3.9	3.9
77.5°	4.7	3.9	3.9	3.4	3.1	2.6	2.6	3.1	3.4	3.4	3.9
80°	3.4	3.1	2.6	3.1	2.6	2.1	2.6	3.1	3.1	3.4	3.4
82.5°	2.6	2.6	2.6	2.6	2.1	2.1	2.6	2.6	3.1	3.4	3.4
85°	2.1	2.1	2.1	2.1	2.1	2.1	2.1	2.6	2.6	3.1	3.1
87.5°	1.3	1.3	1.3	1.8	1.8	2.1	2.1	2.1	2.1	2.6	2.6
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°	199.2	199.2	199.2	199.2
2.5°	150.3	150.0	148.2	148.7
5°	105.4	102.8	104.6	104.1
7.5°	77.3	76.9	76.5	77.3
10°	66.1	66.1	65.7	66.1
12.5°	62.2	62.2	62.2	62.2
15°	59.2	59.2	58.8	58.8
17.5°	55.7	55.7	55.7	55.3
20°	52.3	51.8	51.8	51.8
22.5°	48.4	48.0	48.0	48.0
25°	44.5	44.1	44.1	44.1
27.5°	40.7	40.2	39.7	39.7
30°	36.7	36.3	35.9	35.9
32.5°	32.8	32.4	32.0	32.0
35°	29.4	29.4	28.9	28.6
37.5°	26.3	26.3	26.3	26.3
40°	24.2	24.7	24.7	24.7
42.5°	22.9	23.3	23.7	24.2
45°	22.0	22.9	23.3	23.3
47.5°	21.6	22.0	22.5	22.5
50°	19.9	19.4	19.4	19.4
52.5°	16.0	15.2	14.7	14.2
55°	11.6	11.3	10.3	10.3
57.5°	8.2	8.2	7.8	7.8
60°	6.5	6.5	6.0	6.5
62.5°	5.6	5.6	5.6	5.6
65°	5.2	5.2	5.2	5.2
67.5°	5.2	5.2	5.2	5.2
69°	4.7	4.7	4.7	4.7
70°	4.7	4.7	4.7	4.7
72.5°	4.3	4.3	4.3	4.3
75°	3.9	4.3	4.3	4.3
77.5°	3.9	3.9	3.9	3.9
80°	3.4	3.4	3.9	3.9
82.5°	3.4	3.4	3.4	3.4
85°	3.1	3.1	3.4	3.4
87.5°	2.6	2.6	3.1	3.1
90°	0.0	0.0	0.0	0.0

(END OF REPORT)