

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: P181549

Luminaire Tested: **ICM-E04-LED-E1-T4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181549
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-E04-LED-E1-T4-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (84) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7196.5 lumens
Efficiency: N/A
Efficacy: 74.0 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.67' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 97.2
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

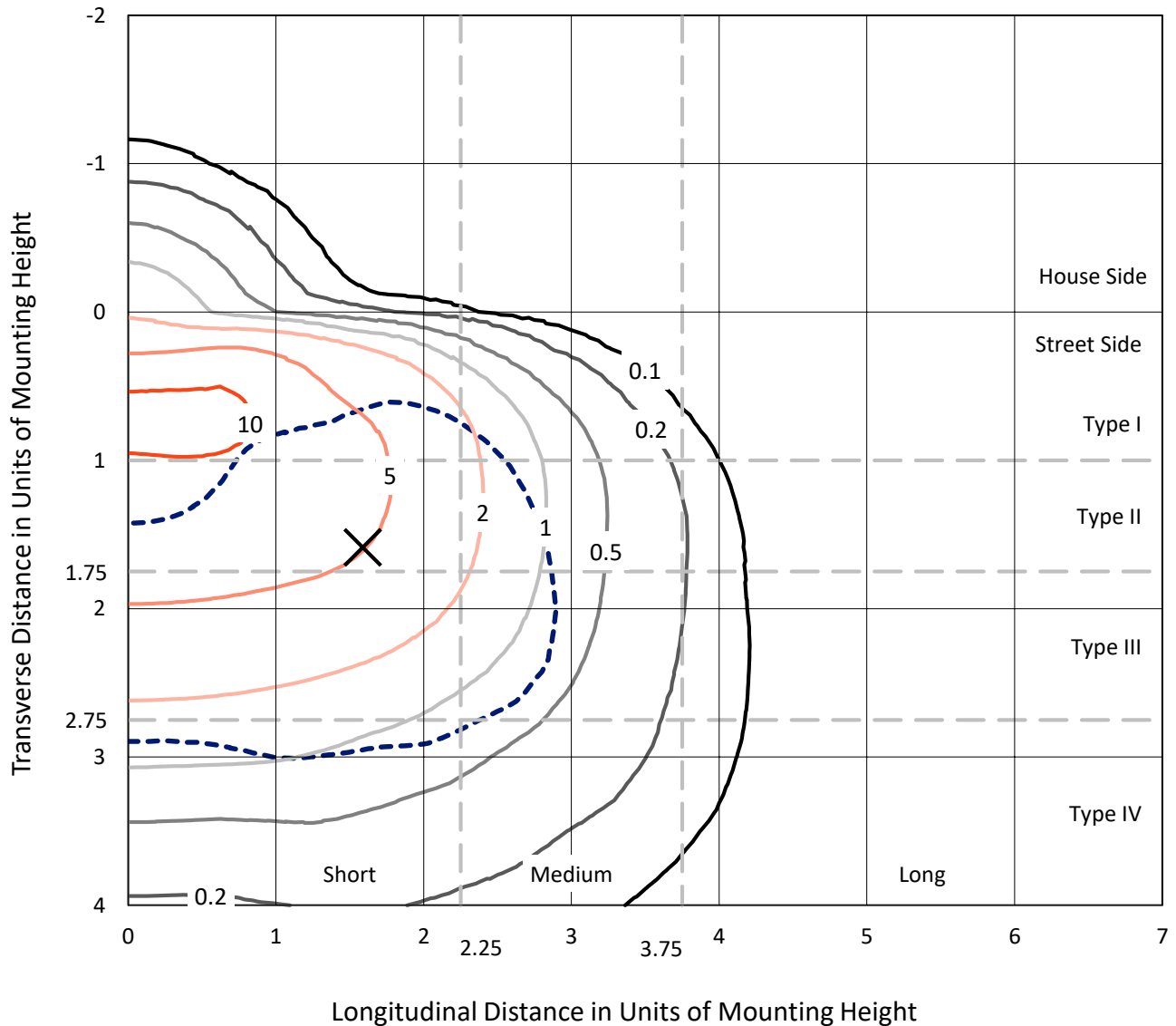


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

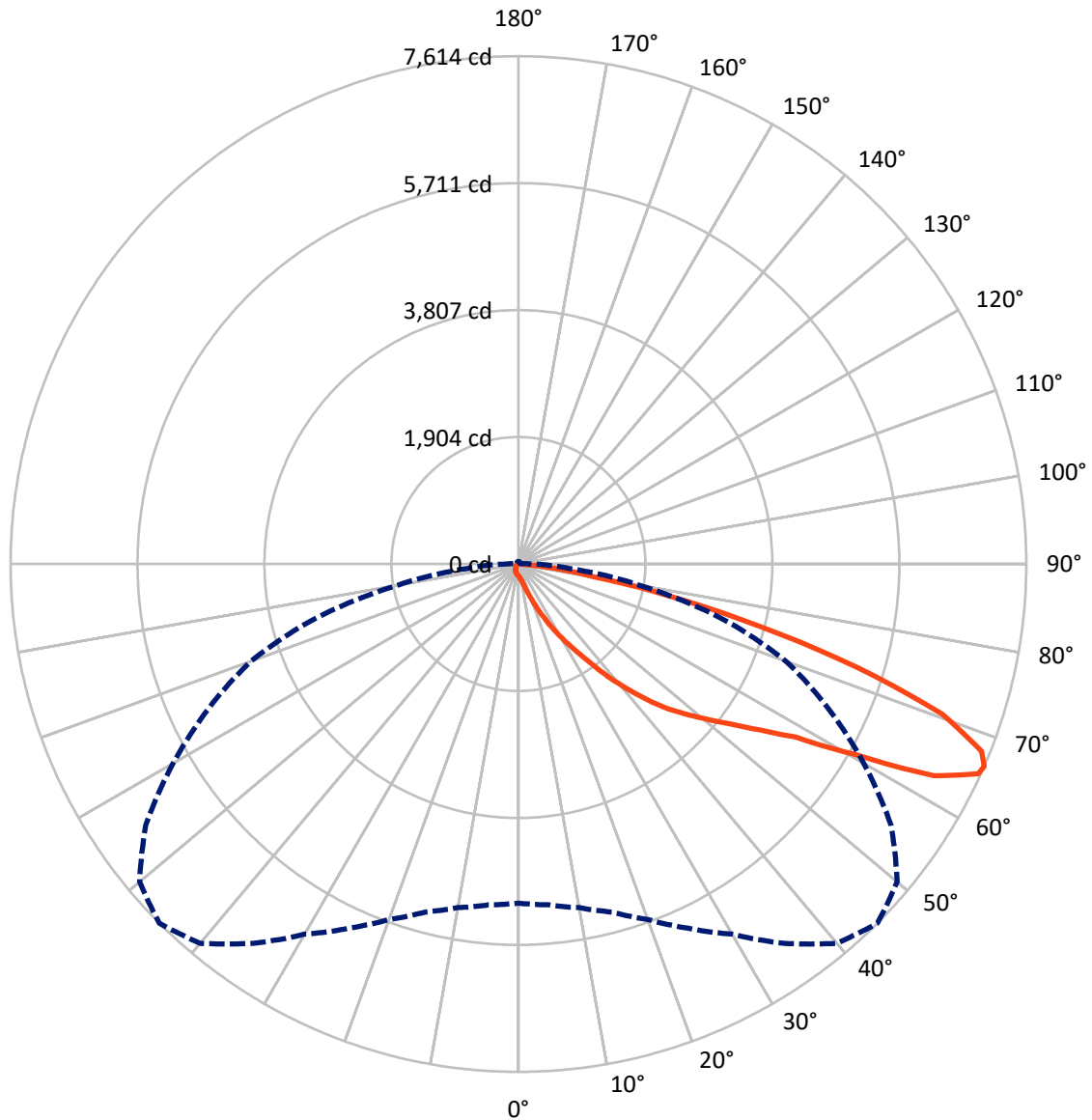


Based on 10 foot mounting height. Maximum calculated value = 11.4 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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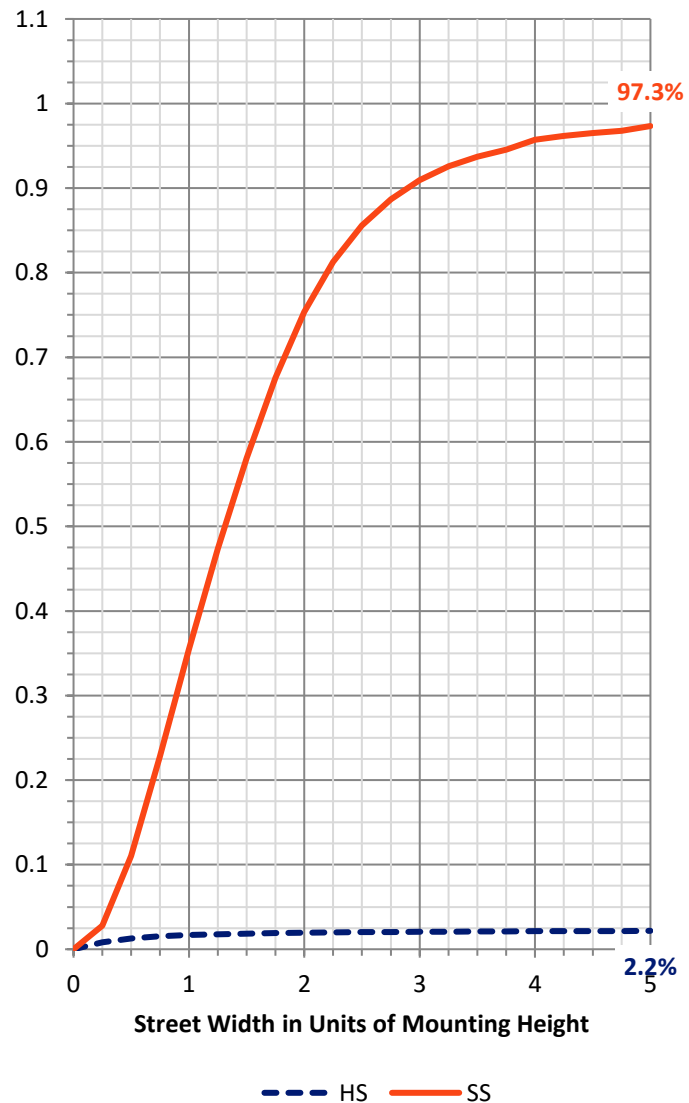
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	163.1	0.0	163.1
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	7033.4	0.0	7033.4
	% Fixture	97.7	0.0	97.7
Total	Lumens	7196.5	0.0	7196.5
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.1	0.3
10°-20°	73.4	1.0
20°-30°	215.0	3.0
30°-40°	502.2	7.0
40°-50°	943.3	13.1
50°-60°	1563.3	21.7
60°-70°	2481.7	34.5
70°-80°	1283.5	17.8
80°-90°	115.9	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°	7196.5	100.0
0°-180°	7196.5	100.0

Coefficient of Utilization



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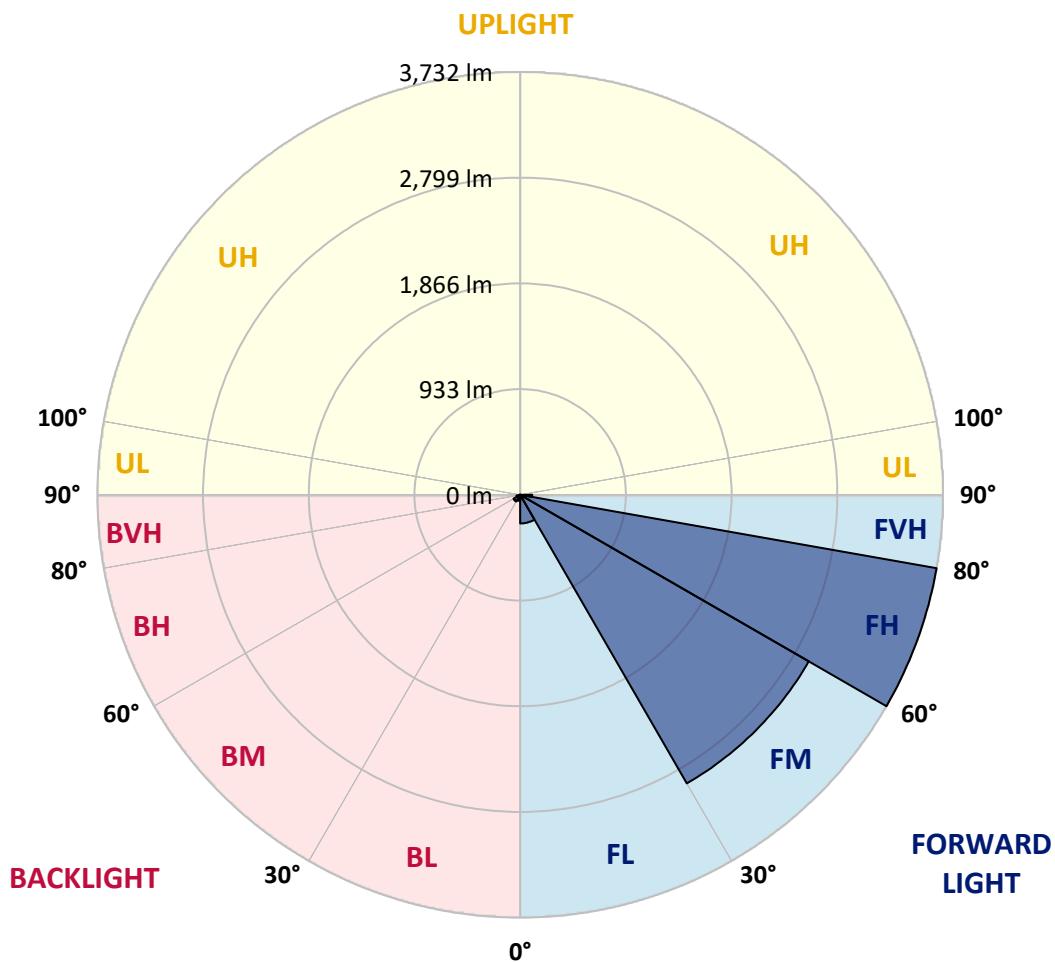
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	253.2	3.5			
FM (30°-60°)	2941.2	40.9			
FH (60°-80°)	3732.2	51.9			G2/5000
FVH (80°-90°)	106.8	1.5			G2/225
BL (0°-30°)	53.3	0.7	B0/110		
BM (30°-60°)	67.7	0.9	B0/220		
BH (60°-80°)	33.0	0.5	B0/110		G0/110
BVH (80°-90°)	9.2	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-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8
2.5°	194.7	194.7	194.7	194.7	193.5	192.3	191.0	189.8	188.6	188.6	187.3
5°	220.7	222.0	220.7	219.5	217.0	215.8	212.1	209.6	205.9	204.7	200.9
7.5°	256.7	255.5	256.7	253.0	248.1	246.8	241.9	235.6	230.7	223.3	218.3
10°	308.8	307.6	308.8	301.4	294.0	287.7	279.1	271.6	260.5	251.8	241.9
12.5°	391.9	391.9	389.5	379.5	369.6	356.0	342.3	326.2	306.3	289.0	272.8
15°	519.7	513.5	502.3	496.1	478.8	457.7	442.8	410.5	382.0	354.7	322.5
17.5°	673.5	661.1	652.4	638.8	616.5	589.1	564.4	517.2	488.7	444.0	398.1
20°	849.6	834.7	832.3	811.2	787.6	757.9	721.9	666.1	617.7	561.9	497.4
22.5°	1029.5	1031.9	1022.1	1007.2	983.5	948.8	893.0	842.1	782.6	711.9	628.8
25°	1230.4	1229.1	1220.5	1203.1	1185.8	1142.3	1097.7	1049.3	978.6	888.1	788.8
27.5°	1418.9	1417.7	1396.6	1397.9	1364.4	1348.2	1304.8	1252.8	1167.2	1091.4	983.5
30°	1616.1	1603.7	1590.1	1580.2	1556.6	1528.1	1505.8	1443.7	1379.3	1290.0	1201.9
32.5°	1815.8	1802.2	1805.9	1793.5	1774.9	1746.3	1712.8	1662.1	1592.6	1505.8	1423.9
35°	2060.2	2054.0	2044.0	2047.7	2044.0	2023.0	1994.4	1927.5	1851.8	1768.7	1684.4
37.5°	2241.2	2235.1	2241.2	2267.3	2273.5	2287.2	2266.1	2232.6	2178.0	2087.5	1999.4
40°	2408.7	2410.0	2438.4	2470.7	2493.0	2537.7	2545.1	2531.5	2488.1	2404.9	2289.6
42.5°	2558.8	2577.4	2603.5	2656.8	2705.1	2768.4	2815.6	2823.0	2790.7	2736.1	2619.6
45°	2726.2	2742.3	2783.3	2846.5	2913.5	2991.6	3067.3	3107.0	3104.5	3066.1	2940.8
47.5°	2913.5	2934.6	2979.3	3031.4	3120.7	3208.7	3306.7	3377.4	3407.2	3353.8	3232.3
50°	3140.5	3149.1	3187.6	3254.6	3336.5	3438.2	3544.9	3647.7	3706.1	3656.5	3531.2
52.5°	3409.6	3412.1	3448.1	3510.1	3575.8	3687.5	3791.7	3934.3	4010.0	3982.6	3832.6
55°	3779.3	3771.8	3796.6	3850.0	3903.3	4011.2	4115.4	4276.6	4387.0	4389.5	4229.5
57.5°	4284.0	4266.7	4282.8	4325.0	4384.5	4485.0	4616.5	4759.1	4906.7	4896.8	4765.3
60°	4987.3	4981.1	5010.9	5081.6	5183.3	5287.5	5436.3	5628.6	5758.8	5803.5	5665.8
62.5°	5454.9	5472.3	5540.5	5649.6	5845.6	6061.4	6338.0	6631.9	6880.0	6991.7	6801.9
65°	5254.0	5282.5	5389.1	5550.5	5809.6	6133.3	6500.5	6983.0	7410.9	7580.8	7383.6
66°	5084.0	5130.0	5230.5	5401.6	5671.9	6025.4	6408.7	6942.1	7423.3	7614.3	7413.3
67.5°	4790.1	4822.4	4936.5	5126.3	5416.5	5766.3	6180.5	6743.6	7286.8	7489.1	7289.3
70°	4191.0	4203.5	4296.5	4457.7	4682.2	5040.7	5416.5	5958.5	6458.4	6742.4	6524.0
72.5°	3119.4	3136.8	3290.5	3584.5	3876.0	4079.4	4301.4	4735.6	5058.0	5323.5	5281.2
75°	1500.8	1508.2	1611.2	2040.3	2608.4	2851.5	3057.4	3393.5	3516.3	3738.3	3704.9
77.5°	951.4	967.4	1034.4	1138.6	1461.1	1750.1	1912.6	2104.9	2140.8	2328.1	2218.9
80°	261.7	303.9	370.9	545.8	936.5	1116.3	1189.5	1182.1	1189.5	1132.4	1095.2
82.5°	53.3	52.1	63.3	98.0	413.0	650.0	702.1	597.9	594.1	571.8	590.4
85°	13.7	12.4	14.9	31.0	70.7	192.3	241.9	135.2	103.0	98.0	86.8
87.5°	3.7	3.7	3.7	6.2	7.4	10.0	13.7	10.0	7.4	7.4	7.4
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°	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8
2.5°	186.0	186.0	184.8	183.5	183.5	182.3	181.1	179.8	178.6	177.4	176.1
5°	197.2	194.7	191.0	188.6	186.0	182.3	179.8	177.4	174.9	173.7	171.2
7.5°	212.1	205.9	200.9	193.5	188.6	183.5	178.6	174.9	171.2	168.7	166.2
10°	230.7	220.7	210.9	200.9	192.3	184.8	177.4	171.2	167.4	163.7	161.2
12.5°	254.2	239.4	225.8	210.9	197.2	186.0	176.1	168.7	163.7	160.0	156.3
15°	292.7	269.1	245.6	223.3	205.9	188.6	174.9	166.2	160.0	156.3	152.6
17.5°	353.5	311.4	274.1	243.1	214.6	192.3	174.9	163.7	156.3	151.3	147.6
20°	441.6	372.1	312.6	267.9	230.7	198.4	174.9	160.0	152.6	146.3	142.6
22.5°	545.8	458.9	377.0	302.6	249.3	207.2	174.9	156.3	147.6	142.6	137.7
25°	698.3	583.0	471.4	367.2	280.3	220.7	178.6	153.8	143.9	137.7	132.7
27.5°	876.9	738.0	599.1	452.7	327.4	240.7	183.5	151.3	140.2	132.7	127.7
30°	1080.3	926.5	756.6	566.8	389.5	266.7	192.3	150.0	135.2	127.7	121.6
32.5°	1301.1	1138.6	952.6	713.2	481.2	306.3	203.4	148.8	130.2	121.6	114.1
35°	1564.0	1412.8	1185.8	919.1	623.9	374.6	228.2	151.3	125.3	115.3	106.7
37.5°	1851.8	1690.5	1450.0	1137.4	765.3	451.4	246.8	147.6	116.6	106.7	98.0
40°	2142.1	1957.2	1712.8	1366.8	945.1	545.8	270.4	143.9	107.9	98.0	89.3
42.5°	2424.9	2230.1	1964.7	1602.5	1134.9	657.4	300.2	143.9	101.7	89.3	80.7
45°	2721.2	2486.8	2196.6	1828.2	1323.4	785.1	342.3	142.6	94.2	81.9	71.9
47.5°	3001.6	2723.7	2390.1	2026.7	1525.6	925.3	390.7	143.9	88.1	74.4	65.8
50°	3267.0	2948.2	2588.6	2204.0	1719.1	1076.6	450.2	145.1	81.9	68.2	59.5
52.5°	3557.2	3203.7	2801.9	2386.3	1910.1	1229.1	519.7	147.6	75.6	62.0	54.6
55°	3917.0	3525.0	3064.9	2609.6	2112.3	1383.0	586.7	150.0	69.5	57.0	49.6
57.5°	4435.4	3988.9	3491.5	2944.5	2380.2	1557.9	656.1	156.3	64.5	53.3	45.9
60°	5278.8	4746.7	4172.4	3527.5	2780.8	1794.7	756.6	170.0	58.3	48.4	43.4
62.5°	6293.3	5653.3	4922.8	4140.2	3157.9	1954.7	823.5	184.8	53.3	44.7	40.9
65°	6804.4	5998.2	5156.0	4311.4	3206.3	1907.6	796.3	179.8	47.2	39.7	34.7
66°	6819.3	5979.6	5123.8	4274.2	3156.6	1850.5	770.2	177.4	45.9	38.4	32.3
67.5°	6677.9	5819.6	4952.6	4105.4	3010.3	1740.2	723.1	168.7	42.1	34.7	28.6
70°	5979.6	5143.6	4348.6	3565.9	2589.8	1466.1	606.5	148.8	37.2	31.0	26.0
72.5°	4766.5	4085.6	3415.8	2805.6	2013.0	1100.2	478.8	121.6	32.3	27.3	22.3
75°	3329.0	2769.6	2259.8	1824.5	1265.1	658.6	310.0	85.6	27.3	22.3	18.6
77.5°	1858.0	1473.5	1113.8	848.4	504.8	205.9	103.0	43.4	23.5	17.4	14.9
80°	945.1	700.7	533.3	393.2	233.2	106.7	52.1	28.6	18.6	13.7	12.4
82.5°	549.5	403.1	321.2	254.2	160.0	80.7	42.1	21.1	12.4	10.0	11.2
85°	122.8	162.5	137.7	116.6	85.6	50.9	29.8	13.7	8.7	8.7	10.0
87.5°	10.0	13.7	12.4	16.1	17.4	16.1	12.4	7.4	6.2	7.4	7.4
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°	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8	179.8
2.5°	174.9	173.7	173.7	172.4	171.2	171.2	171.2	170.0	171.2	171.2	171.2
5°	170.0	168.7	167.4	166.2	164.9	163.7	163.7	162.5	162.5	162.5	163.7
7.5°	164.9	162.5	161.2	158.8	157.5	156.3	156.3	155.1	155.1	155.1	155.1
10°	158.8	156.3	153.8	152.6	151.3	148.8	148.8	147.6	146.3	146.3	146.3
12.5°	153.8	151.3	148.8	146.3	143.9	142.6	141.4	140.2	138.9	138.9	138.9
15°	148.8	145.1	142.6	140.2	137.7	135.2	134.0	132.7	131.4	130.2	130.2
17.5°	143.9	140.2	136.5	134.0	131.4	129.0	127.7	124.0	124.0	122.8	122.8
20°	137.7	134.0	130.2	127.7	125.3	122.8	120.3	117.9	115.3	114.1	114.1
22.5°	132.7	129.0	125.3	121.6	117.9	114.1	111.6	109.1	107.9	106.7	105.4
25°	127.7	122.8	117.9	114.1	110.4	106.7	104.2	101.7	99.3	98.0	98.0
27.5°	121.6	116.6	111.6	106.7	103.0	99.3	96.7	93.0	91.8	90.5	89.3
30°	115.3	109.1	104.2	99.3	95.5	90.5	88.1	85.6	83.1	83.1	81.9
32.5°	107.9	101.7	96.7	91.8	86.8	83.1	80.7	78.1	76.9	74.4	74.4
35°	100.5	94.2	88.1	83.1	79.3	75.6	73.2	70.7	68.2	67.0	67.0
37.5°	91.8	85.6	80.7	75.6	71.9	68.2	65.8	63.3	62.0	60.7	59.5
40°	81.9	75.6	71.9	68.2	64.5	62.0	58.3	55.8	54.6	53.3	52.1
42.5°	73.2	67.0	64.5	62.0	58.3	55.8	52.1	49.6	47.2	45.9	44.7
45°	65.8	60.7	58.3	55.8	52.1	48.4	45.9	43.4	40.9	39.7	39.7
47.5°	58.3	54.6	52.1	49.6	45.9	43.4	39.7	38.4	36.0	36.0	36.0
50°	53.3	49.6	47.2	44.7	42.1	38.4	36.0	34.7	33.5	33.5	34.7
52.5°	49.6	45.9	43.4	40.9	38.4	36.0	33.5	32.3	32.3	33.5	34.7
55°	45.9	42.1	39.7	37.2	34.7	33.5	31.0	31.0	32.3	33.5	34.7
57.5°	43.4	38.4	36.0	34.7	32.3	31.0	31.0	31.0	32.3	33.5	36.0
60°	39.7	34.7	32.3	32.3	29.8	29.8	29.8	31.0	32.3	34.7	36.0
62.5°	34.7	31.0	29.8	29.8	28.6	28.6	29.8	31.0	33.5	34.7	36.0
65°	29.8	27.3	27.3	27.3	27.3	28.6	29.8	31.0	32.3	34.7	36.0
66°	27.3	26.0	26.0	27.3	27.3	28.6	29.8	31.0	32.3	33.5	34.7
67.5°	26.0	24.8	24.8	26.0	27.3	27.3	28.6	31.0	32.3	33.5	33.5
70°	22.3	22.3	22.3	24.8	26.0	27.3	28.6	29.8	31.0	32.3	33.5
72.5°	19.8	19.8	21.1	22.3	24.8	26.0	27.3	28.6	31.0	32.3	32.3
75°	17.4	17.4	19.8	21.1	23.5	24.8	27.3	28.6	29.8	31.0	31.0
77.5°	14.9	16.1	18.6	21.1	22.3	24.8	26.0	27.3	28.6	29.8	29.8
80°	13.7	16.1	18.6	19.8	21.1	22.3	23.5	26.0	27.3	28.6	29.8
82.5°	13.7	14.9	17.4	18.6	19.8	22.3	23.5	24.8	26.0	27.3	28.6
85°	11.2	13.7	14.9	17.4	18.6	21.1	22.3	22.3	23.5	24.8	26.0
87.5°	8.7	10.0	10.0	12.4	13.7	16.1	18.6	18.6	19.8	21.1	22.3
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):

	165°	170°	175°	180°
0°	179.8	179.8	179.8	179.8
2.5°	171.2	172.4	172.4	172.4
5°	163.7	163.7	163.7	163.7
7.5°	155.1	155.1	155.1	155.1
10°	146.3	146.3	147.6	146.3
12.5°	138.9	137.7	137.7	137.7
15°	130.2	130.2	129.0	130.2
17.5°	121.6	121.6	120.3	120.3
20°	112.8	112.8	112.8	112.8
22.5°	105.4	104.2	104.2	104.2
25°	96.7	96.7	96.7	96.7
27.5°	89.3	89.3	89.3	89.3
30°	81.9	81.9	80.7	80.7
32.5°	74.4	74.4	74.4	74.4
35°	67.0	67.0	65.8	65.8
37.5°	58.3	58.3	58.3	58.3
40°	50.9	50.9	50.9	50.9
42.5°	44.7	44.7	43.4	43.4
45°	38.4	38.4	38.4	38.4
47.5°	36.0	36.0	36.0	36.0
50°	34.7	36.0	36.0	36.0
52.5°	36.0	36.0	36.0	36.0
55°	36.0	37.2	37.2	37.2
57.5°	36.0	37.2	37.2	38.4
60°	37.2	38.4	38.4	38.4
62.5°	37.2	38.4	38.4	38.4
65°	36.0	37.2	37.2	37.2
66°	36.0	36.0	36.0	37.2
67.5°	34.7	36.0	36.0	36.0
70°	33.5	34.7	34.7	36.0
72.5°	33.5	34.7	34.7	34.7
75°	32.3	32.3	33.5	33.5
77.5°	31.0	31.0	32.3	32.3
80°	29.8	31.0	31.0	31.0
82.5°	28.6	29.8	29.8	29.8
85°	26.0	27.3	27.3	27.3
87.5°	22.3	22.3	23.5	23.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)