

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: P181547

Luminaire Tested: **ICM-E04-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181547
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-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6073.8 lumens
Efficiency: N/A
Efficacy: 62.5 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

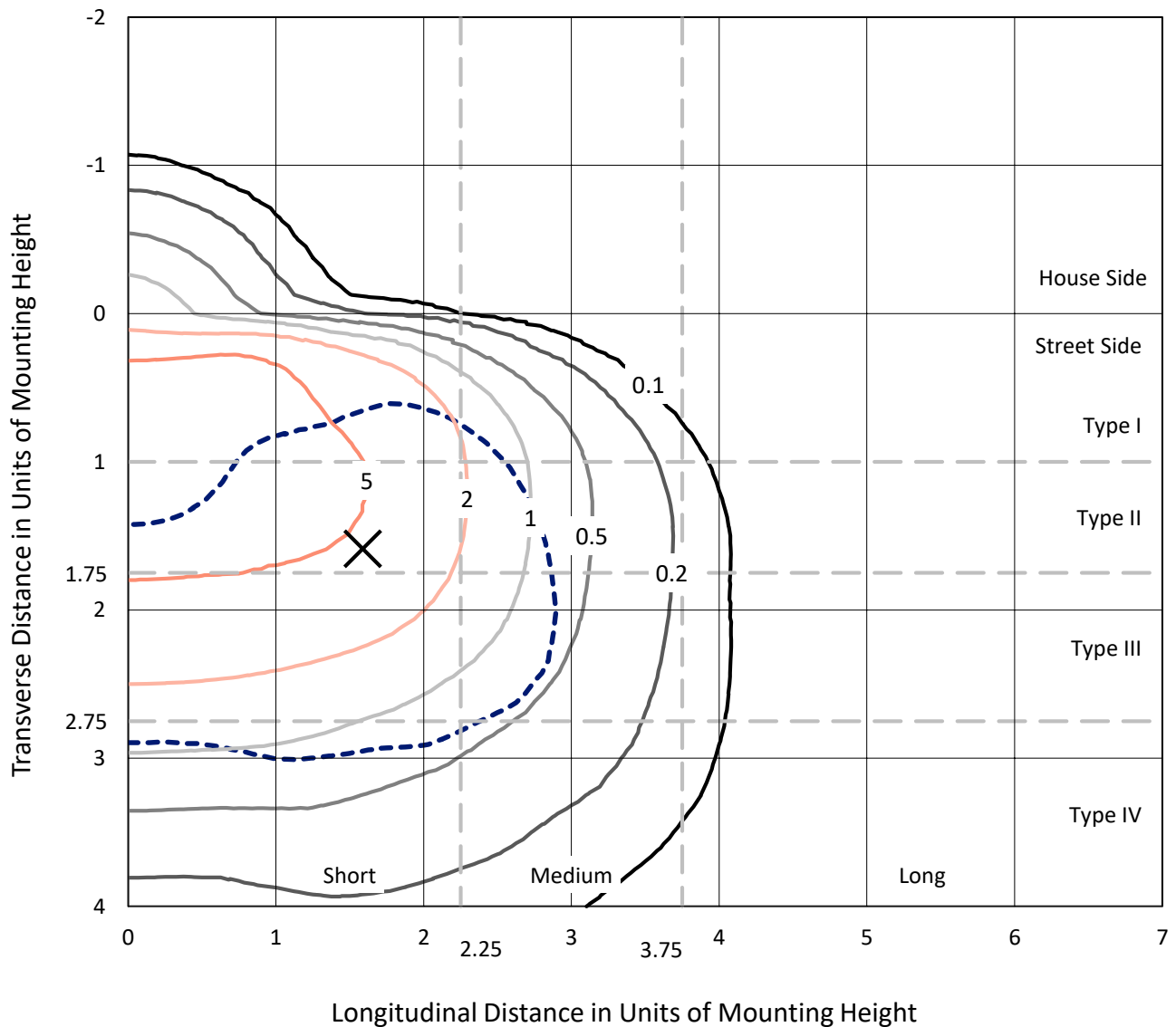
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

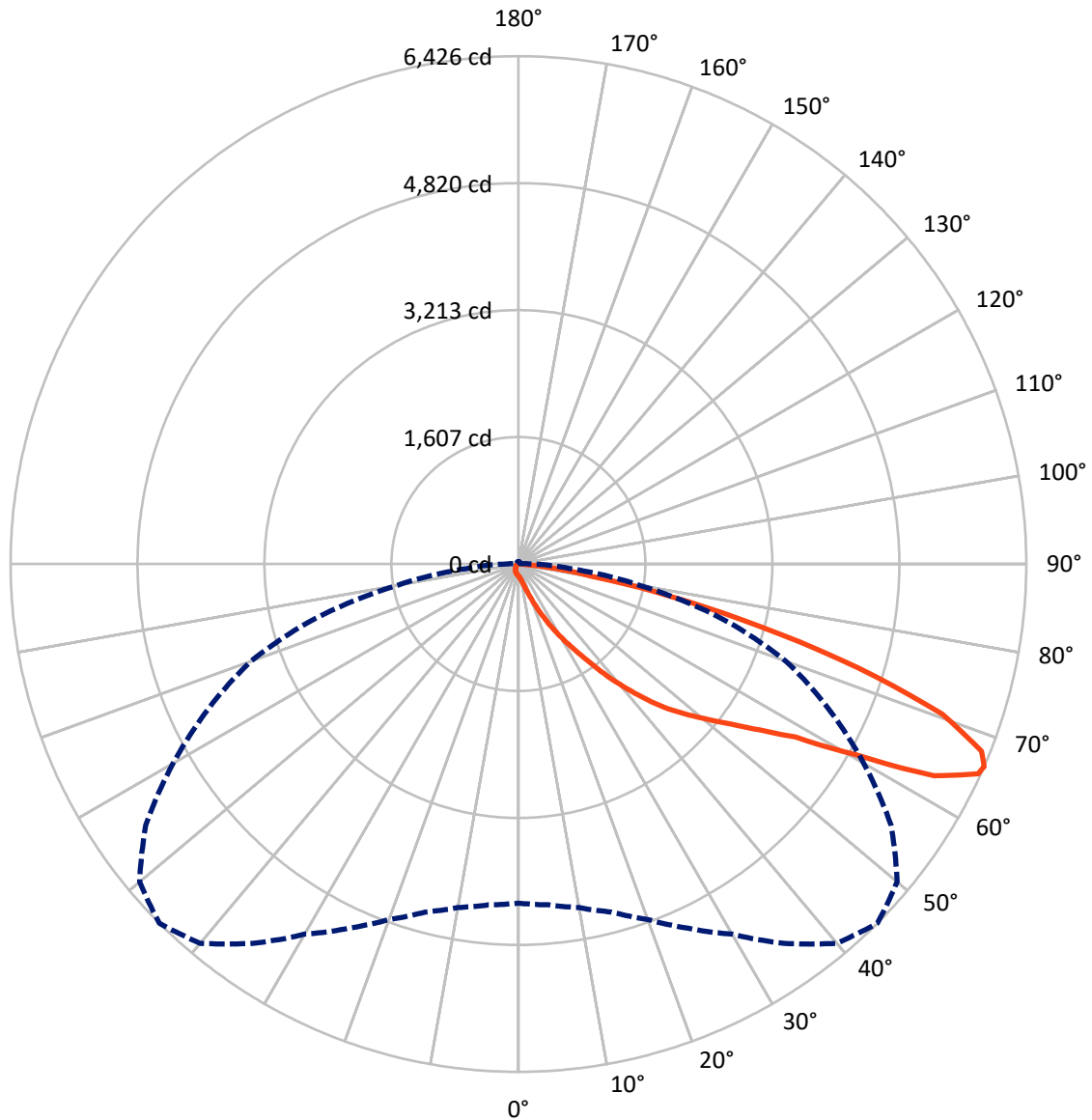
× Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 9.6 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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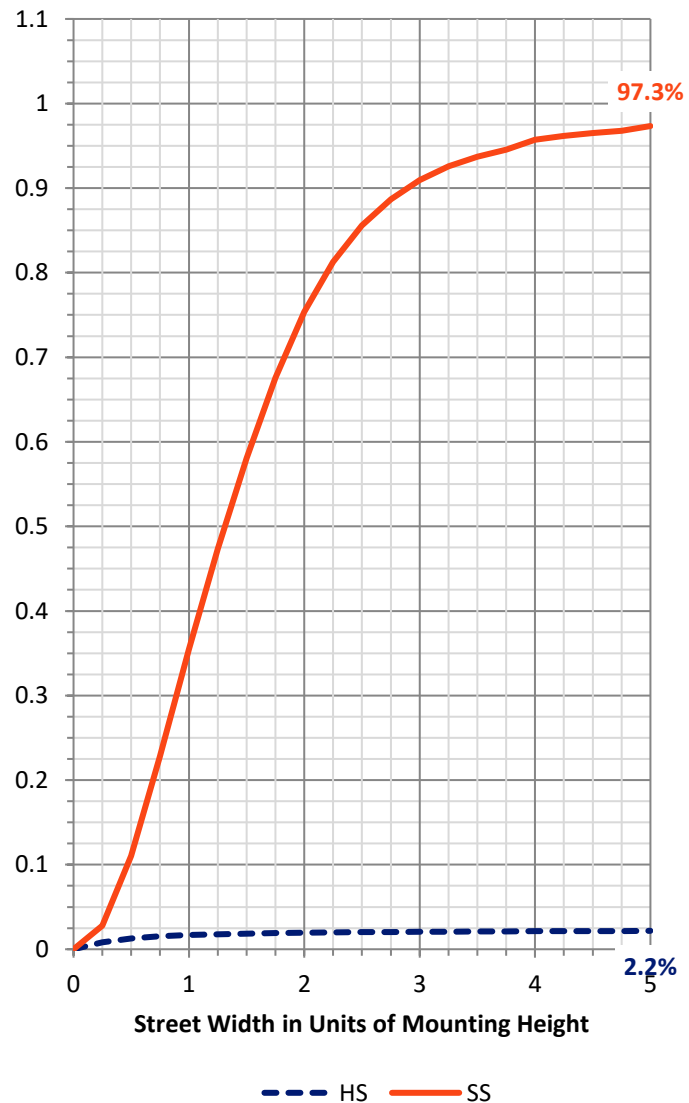
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	137.7	0.0	137.7
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	5936.1	0.0	5936.1
	% Fixture	97.7	0.0	97.7
Total	Lumens	6073.8	0.0	6073.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	15.3	0.3
10°-20°	61.9	1.0
20°-30°	181.5	3.0
30°-40°	423.9	7.0
40°-50°	796.2	13.1
50°-60°	1319.4	21.7
60°-70°	2094.6	34.5
70°-80°	1083.2	17.8
80°-90°	97.8	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°	6073.8	100.0
0°-180°	6073.8	100.0



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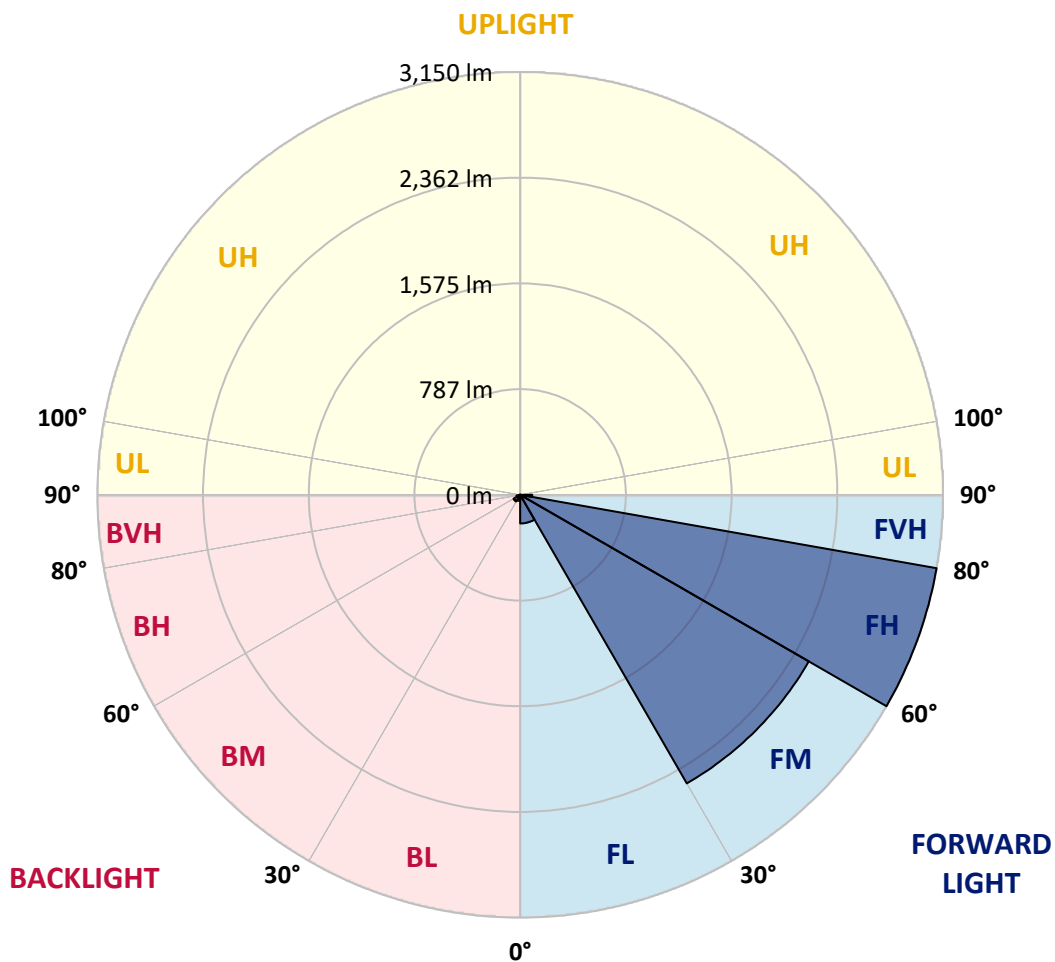
CATALOG NUMBER: ICM-E04-LED-E1-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	213.7	3.5			
FM	(30°-60°)	2482.4	40.9			
FH	(60°-80°)	3149.9	51.9			G2/5000
FVH	(80°-90°)	90.1	1.5			G1/100
BL	(0°-30°)	45.0	0.7	B0/110		
BM	(30°-60°)	57.1	0.9	B0/220		
BH	(60°-80°)	27.9	0.5	B0/110		G0/110
BVH	(80°-90°)	7.7	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°	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8
2.5°	164.4	164.4	164.4	164.4	163.3	162.2	161.2	160.2	159.1	159.1	158.0
5°	186.3	187.3	186.3	185.3	183.2	182.1	179.0	176.9	173.8	172.7	169.6
7.5°	216.7	215.6	216.7	213.6	209.4	208.3	204.1	198.9	194.7	188.5	184.3
10°	260.7	259.6	260.7	254.4	248.1	242.9	235.5	229.2	219.8	212.5	204.1
12.5°	330.8	330.8	328.7	320.3	311.9	300.5	288.9	275.4	258.6	243.9	230.3
15°	438.6	433.4	424.0	418.7	404.1	386.2	373.7	346.5	322.4	299.4	272.2
17.5°	568.4	558.0	550.6	539.1	520.3	497.2	476.3	436.6	412.5	374.8	336.0
20°	717.0	704.5	702.4	684.7	664.7	639.6	609.2	562.1	521.3	474.2	419.8
22.5°	868.8	871.0	862.6	850.1	830.1	800.8	753.7	710.8	660.6	600.8	530.7
25°	1038.4	1037.4	1030.1	1015.4	1000.8	964.1	926.4	885.6	826.0	749.5	665.8
27.5°	1197.6	1196.5	1178.7	1179.7	1151.5	1137.9	1101.2	1057.3	985.0	921.2	830.1
30°	1364.0	1353.5	1342.1	1333.7	1313.8	1289.7	1270.8	1218.5	1164.1	1088.7	1014.3
32.5°	1532.6	1521.0	1524.2	1513.7	1498.0	1474.0	1445.7	1402.7	1344.1	1270.8	1201.8
35°	1738.8	1733.5	1725.1	1728.3	1725.1	1707.4	1683.3	1626.7	1562.9	1492.8	1421.6
37.5°	1891.6	1886.3	1891.6	1913.6	1918.8	1930.3	1912.6	1884.3	1838.2	1761.8	1687.5
40°	2032.9	2034.0	2058.1	2085.2	2104.1	2141.8	2148.1	2136.6	2099.9	2029.8	1932.4
42.5°	2159.5	2175.3	2197.2	2242.2	2283.1	2336.5	2376.3	2382.5	2355.4	2309.3	2210.9
45°	2300.9	2314.5	2349.0	2402.4	2459.0	2524.9	2588.8	2622.2	2620.2	2587.7	2482.0
47.5°	2459.0	2476.8	2514.4	2558.4	2633.8	2708.1	2790.8	2850.4	2875.6	2830.6	2728.0
50°	2650.5	2657.9	2690.3	2746.8	2815.9	2901.8	2991.8	3078.7	3127.9	3086.0	2980.3
52.5°	2877.7	2879.8	2910.2	2962.5	3018.0	3112.2	3200.1	3320.5	3384.4	3361.3	3234.6
55°	3189.7	3183.4	3204.3	3249.3	3294.3	3385.4	3473.3	3609.4	3702.6	3704.7	3569.6
57.5°	3615.7	3601.0	3614.6	3650.3	3700.5	3785.3	3896.2	4016.7	4141.2	4132.9	4021.9
60°	4209.2	4204.0	4229.1	4288.8	4374.6	4462.5	4588.2	4750.4	4860.4	4898.1	4781.9
62.5°	4603.9	4618.5	4676.1	4768.2	4933.6	5115.8	5349.2	5597.3	5806.7	5900.9	5740.8
65°	4434.4	4458.4	4548.4	4684.5	4903.3	5176.5	5486.4	5893.6	6254.7	6398.2	6231.7
66°	4290.9	4329.6	4414.4	4558.9	4787.1	5085.4	5408.9	5859.0	6265.2	6426.4	6256.8
67.5°	4042.8	4070.0	4166.4	4326.5	4571.5	4866.6	5216.3	5691.6	6150.1	6320.7	6152.1
70°	3537.2	3547.6	3626.2	3762.3	3951.7	4254.3	4571.5	5028.9	5450.7	5690.5	5506.3
72.5°	2632.8	2647.4	2777.2	3025.3	3271.3	3443.0	3630.3	3996.8	4269.0	4493.0	4457.3
75°	1266.6	1272.9	1359.8	1722.1	2201.5	2406.6	2580.4	2864.1	2967.7	3155.1	3126.8
77.5°	802.9	816.6	873.0	960.9	1233.1	1477.0	1614.1	1776.5	1806.8	1964.8	1872.8
80°	220.8	256.5	313.0	460.6	790.3	942.1	1003.9	997.6	1003.9	955.7	924.4
82.5°	45.0	44.0	53.4	82.7	348.6	548.6	592.5	504.6	501.4	482.6	498.3
85°	11.5	10.5	12.6	26.1	59.6	162.2	204.1	114.1	86.9	82.7	73.3
87.5°	3.2	3.2	3.2	5.2	6.3	8.4	11.5	8.4	6.3	6.3	6.3
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°	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8
2.5°	157.0	157.0	156.0	154.9	154.9	153.9	152.8	151.8	150.7	149.7	148.7
5°	166.4	164.4	161.2	159.1	157.0	153.9	151.8	149.7	147.6	146.5	144.5
7.5°	179.0	173.8	169.6	163.3	159.1	154.9	150.7	147.6	144.5	142.3	140.3
10°	194.7	186.3	178.0	169.6	162.2	156.0	149.7	144.5	141.3	138.1	136.1
12.5°	214.6	202.0	190.5	178.0	166.4	157.0	148.7	142.3	138.1	135.1	131.9
15°	247.1	227.2	207.3	188.5	173.8	159.1	147.6	140.3	135.1	131.9	128.7
17.5°	298.3	262.8	231.4	205.2	181.1	162.2	147.6	138.1	131.9	127.7	124.6
20°	372.7	314.0	263.8	226.1	194.7	167.5	147.6	135.1	128.7	123.5	120.4
22.5°	460.6	387.4	318.2	255.4	210.4	174.8	147.6	131.9	124.6	120.4	116.2
25°	589.4	492.0	397.8	309.9	236.6	186.3	150.7	129.8	121.4	116.2	112.0
27.5°	740.1	622.9	505.6	382.0	276.4	203.1	154.9	127.7	118.3	112.0	107.8
30°	911.8	782.0	638.5	478.4	328.7	225.0	162.2	126.7	114.1	107.8	102.6
32.5°	1098.1	960.9	803.9	602.0	406.1	258.6	171.7	125.6	110.0	102.6	96.3
35°	1320.0	1192.3	1000.8	775.7	526.5	316.1	192.7	127.7	105.8	97.4	90.0
37.5°	1562.9	1426.8	1223.7	959.9	645.9	381.0	208.3	124.6	98.4	90.0	82.7
40°	1807.8	1651.9	1445.7	1153.6	797.7	460.6	228.2	121.4	91.1	82.7	75.3
42.5°	2046.5	1882.2	1658.1	1352.5	957.9	554.8	253.3	121.4	85.9	75.3	68.0
45°	2296.8	2098.9	1853.9	1543.0	1116.9	662.6	288.9	120.4	79.5	69.1	60.7
47.5°	2533.3	2298.8	2017.2	1710.5	1287.5	780.9	329.8	121.4	74.3	62.8	55.4
50°	2757.3	2488.3	2184.7	1860.2	1450.9	908.7	380.0	122.5	69.1	57.6	50.2
52.5°	3002.3	2703.9	2364.8	2014.1	1612.1	1037.4	438.6	124.6	63.8	52.4	46.0
55°	3305.9	2975.1	2586.7	2202.5	1782.7	1167.2	495.2	126.7	58.6	48.2	41.9
57.5°	3743.4	3366.5	2946.8	2485.1	2008.8	1314.8	553.8	131.9	54.4	45.0	38.7
60°	4455.3	4006.2	3521.5	2977.1	2347.0	1514.7	638.5	143.4	49.2	40.8	36.7
62.5°	5311.6	4771.4	4154.8	3494.3	2665.2	1649.8	695.1	156.0	45.0	37.7	34.5
65°	5742.8	5062.4	4351.7	3638.7	2706.1	1610.0	672.1	151.8	39.8	33.5	29.3
66°	5755.4	5046.7	4324.4	3607.4	2664.1	1561.9	650.1	149.7	38.7	32.5	27.3
67.5°	5636.0	4911.7	4179.9	3465.0	2540.7	1468.7	610.3	142.3	35.6	29.3	24.1
70°	5046.7	4341.1	3670.2	3009.6	2185.8	1237.3	511.9	125.6	31.4	26.1	22.0
72.5°	4022.9	3448.2	2882.9	2367.9	1699.0	928.6	404.1	102.6	27.3	23.1	18.9
75°	2809.7	2337.5	1907.3	1539.8	1067.7	555.8	261.7	72.2	23.1	18.9	15.7
77.5°	1568.1	1243.6	940.0	716.0	426.0	173.8	86.9	36.7	19.9	14.7	12.6
80°	797.7	591.4	450.1	331.8	196.8	90.0	44.0	24.1	15.7	11.5	10.5
82.5°	463.7	340.2	271.2	214.6	135.1	68.0	35.6	17.8	10.5	8.4	9.4
85°	103.6	137.1	116.2	98.4	72.2	42.9	25.1	11.5	7.3	7.3	8.4
87.5°	8.4	11.5	10.5	13.6	14.7	13.6	10.5	6.3	5.2	6.3	6.3
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°	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8	151.8
2.5°	147.6	146.5	146.5	145.5	144.5	144.5	144.5	143.4	144.5	144.5	144.5
5°	143.4	142.3	141.3	140.3	139.3	138.1	138.1	137.1	137.1	137.1	138.1
7.5°	139.3	137.1	136.1	134.0	132.9	131.9	131.9	130.9	130.9	130.9	130.9
10°	134.0	131.9	129.8	128.7	127.7	125.6	125.6	124.6	123.5	123.5	123.5
12.5°	129.8	127.7	125.6	123.5	121.4	120.4	119.3	118.3	117.2	117.2	117.2
15°	125.6	122.5	120.4	118.3	116.2	114.1	113.0	112.0	111.0	110.0	110.0
17.5°	121.4	118.3	115.2	113.0	111.0	108.8	107.8	104.7	104.7	103.6	103.6
20°	116.2	113.0	110.0	107.8	105.8	103.6	101.6	99.4	97.4	96.3	96.3
22.5°	112.0	108.8	105.8	102.6	99.4	96.3	94.2	92.1	91.1	90.0	89.0
25°	107.8	103.6	99.4	96.3	93.2	90.0	87.9	85.9	83.7	82.7	82.7
27.5°	102.6	98.4	94.2	90.0	86.9	83.7	81.7	78.5	77.5	76.4	75.3
30°	97.4	92.1	87.9	83.7	80.6	76.4	74.3	72.2	70.1	70.1	69.1
32.5°	91.1	85.9	81.7	77.5	73.3	70.1	68.0	66.0	64.9	62.8	62.8
35°	84.8	79.5	74.3	70.1	67.0	63.8	61.8	59.6	57.6	56.6	56.6
37.5°	77.5	72.2	68.0	63.8	60.7	57.6	55.4	53.4	52.4	51.3	50.2
40°	69.1	63.8	60.7	57.6	54.4	52.4	49.2	47.1	46.0	45.0	44.0
42.5°	61.8	56.6	54.4	52.4	49.2	47.1	44.0	41.9	39.8	38.7	37.7
45°	55.4	51.3	49.2	47.1	44.0	40.8	38.7	36.7	34.5	33.5	33.5
47.5°	49.2	46.0	44.0	41.9	38.7	36.7	33.5	32.5	30.3	30.3	30.3
50°	45.0	41.9	39.8	37.7	35.6	32.5	30.3	29.3	28.3	28.3	29.3
52.5°	41.9	38.7	36.7	34.5	32.5	30.3	28.3	27.3	27.3	28.3	29.3
55°	38.7	35.6	33.5	31.4	29.3	28.3	26.1	26.1	27.3	28.3	29.3
57.5°	36.7	32.5	30.3	29.3	27.3	26.1	26.1	26.1	27.3	28.3	30.3
60°	33.5	29.3	27.3	27.3	25.1	25.1	25.1	26.1	27.3	29.3	30.3
62.5°	29.3	26.1	25.1	25.1	24.1	24.1	25.1	26.1	28.3	29.3	30.3
65°	25.1	23.1	23.1	23.1	23.1	24.1	25.1	26.1	27.3	29.3	30.3
66°	23.1	22.0	22.0	23.1	23.1	24.1	25.1	26.1	27.3	28.3	29.3
67.5°	22.0	20.9	20.9	22.0	23.1	23.1	24.1	26.1	27.3	28.3	28.3
70°	18.9	18.9	18.9	20.9	22.0	23.1	24.1	25.1	26.1	27.3	28.3
72.5°	16.7	16.7	17.8	18.9	20.9	22.0	23.1	24.1	26.1	27.3	27.3
75°	14.7	14.7	16.7	17.8	19.9	20.9	23.1	24.1	25.1	26.1	26.1
77.5°	12.6	13.6	15.7	17.8	18.9	20.9	22.0	23.1	24.1	25.1	25.1
80°	11.5	13.6	15.7	16.7	17.8	18.9	19.9	22.0	23.1	24.1	25.1
82.5°	11.5	12.6	14.7	15.7	16.7	18.9	19.9	20.9	22.0	23.1	24.1
85°	9.4	11.5	12.6	14.7	15.7	17.8	18.9	18.9	19.9	20.9	22.0
87.5°	7.3	8.4	8.4	10.5	11.5	13.6	15.7	15.7	16.7	17.8	18.9
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°	151.8	151.8	151.8	151.8
2.5°	144.5	145.5	145.5	145.5
5°	138.1	138.1	138.1	138.1
7.5°	130.9	130.9	130.9	130.9
10°	123.5	123.5	124.6	123.5
12.5°	117.2	116.2	116.2	116.2
15°	110.0	110.0	108.8	110.0
17.5°	102.6	102.6	101.6	101.6
20°	95.3	95.3	95.3	95.3
22.5°	89.0	87.9	87.9	87.9
25°	81.7	81.7	81.7	81.7
27.5°	75.3	75.3	75.3	75.3
30°	69.1	69.1	68.0	68.0
32.5°	62.8	62.8	62.8	62.8
35°	56.6	56.6	55.4	55.4
37.5°	49.2	49.2	49.2	49.2
40°	42.9	42.9	42.9	42.9
42.5°	37.7	37.7	36.7	36.7
45°	32.5	32.5	32.5	32.5
47.5°	30.3	30.3	30.3	30.3
50°	29.3	30.3	30.3	30.3
52.5°	30.3	30.3	30.3	30.3
55°	30.3	31.4	31.4	31.4
57.5°	30.3	31.4	31.4	32.5
60°	31.4	32.5	32.5	32.5
62.5°	31.4	32.5	32.5	32.5
65°	30.3	31.4	31.4	31.4
66°	30.3	30.3	30.3	31.4
67.5°	29.3	30.3	30.3	30.3
70°	28.3	29.3	29.3	30.3
72.5°	28.3	29.3	29.3	29.3
75°	27.3	27.3	28.3	28.3
77.5°	26.1	26.1	27.3	27.3
80°	25.1	26.1	26.1	26.1
82.5°	24.1	25.1	25.1	25.1
85°	22.0	23.1	23.1	23.1
87.5°	18.9	18.9	19.9	19.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)