

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: P181564

Luminaire Tested: **ICM-F05-LED-E1-T4-HSS**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181564
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-F05-LED-E1-T4-HSS
Description: ICON SITE MEDIUM LED LUMINAIRE
(5) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (35) 4000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 7426.1 lumens
Efficiency: N/A
Efficacy: 55.7 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.83' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

Input Watts (W): 133.3
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

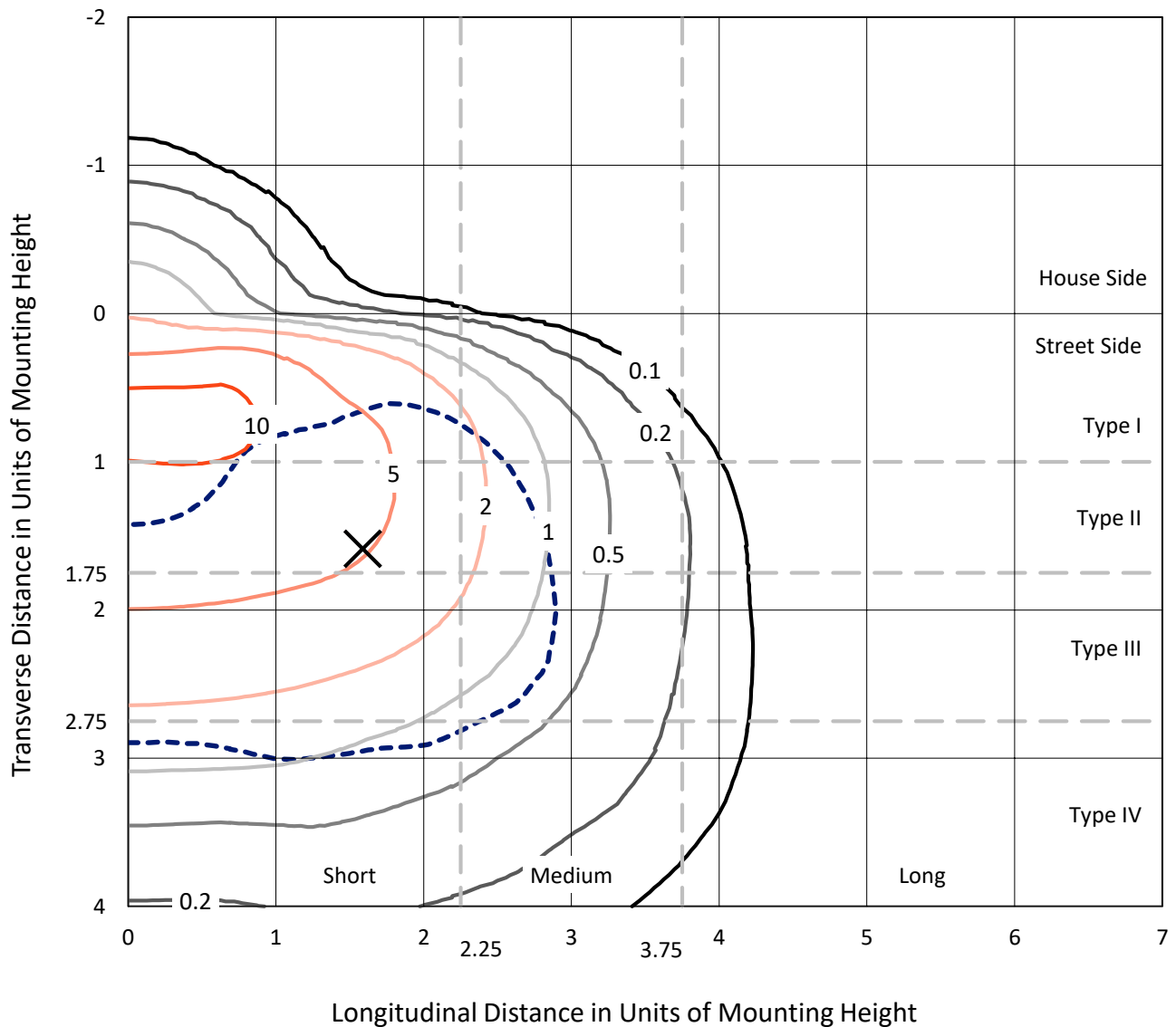


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Iso-Footcandle Lines of Horizontal Illumination

✕ Max cd
 - - - 1/2 Max cd

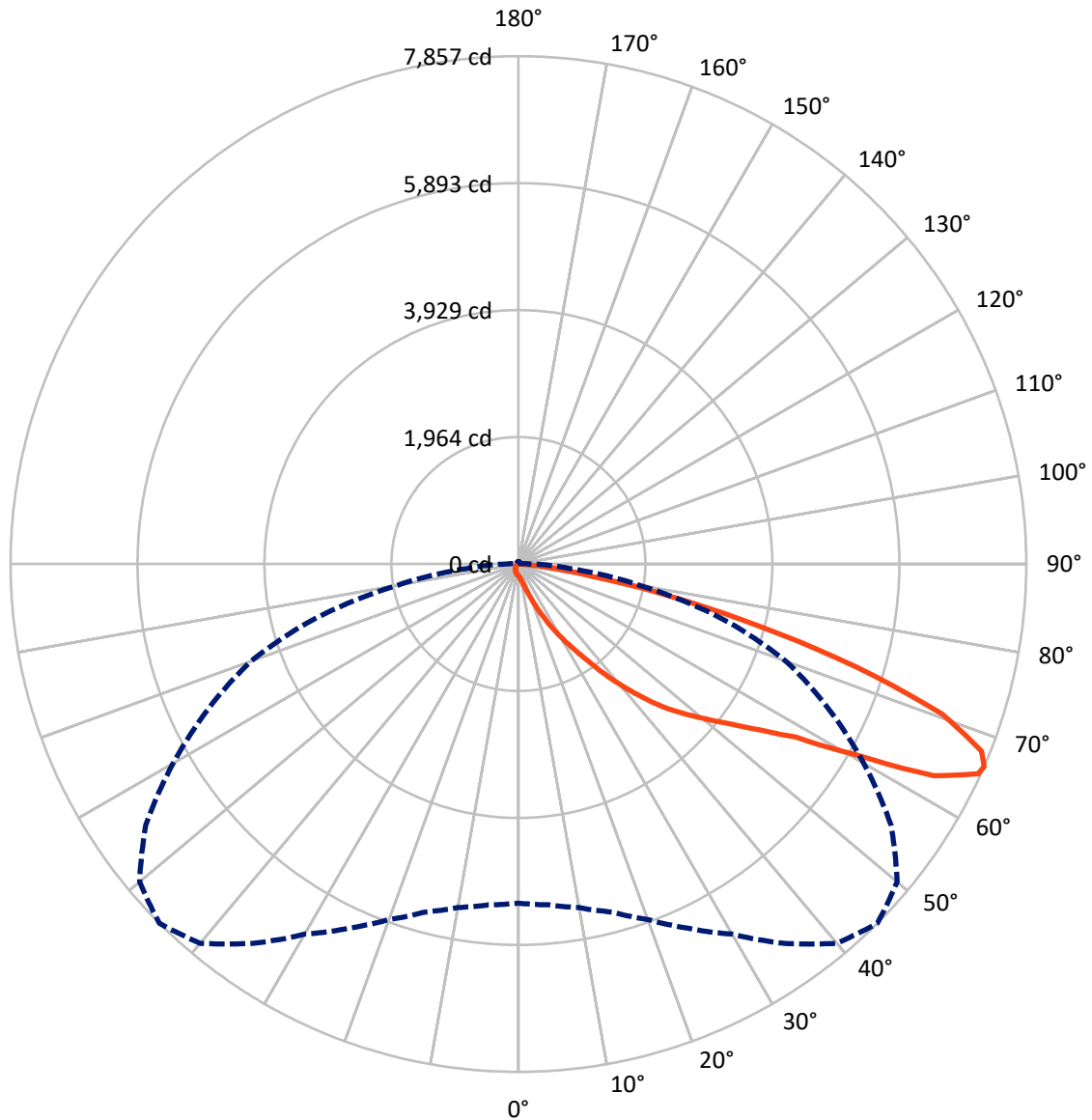


Based on 10 foot mounting height. Maximum calculated value = 11.8 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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

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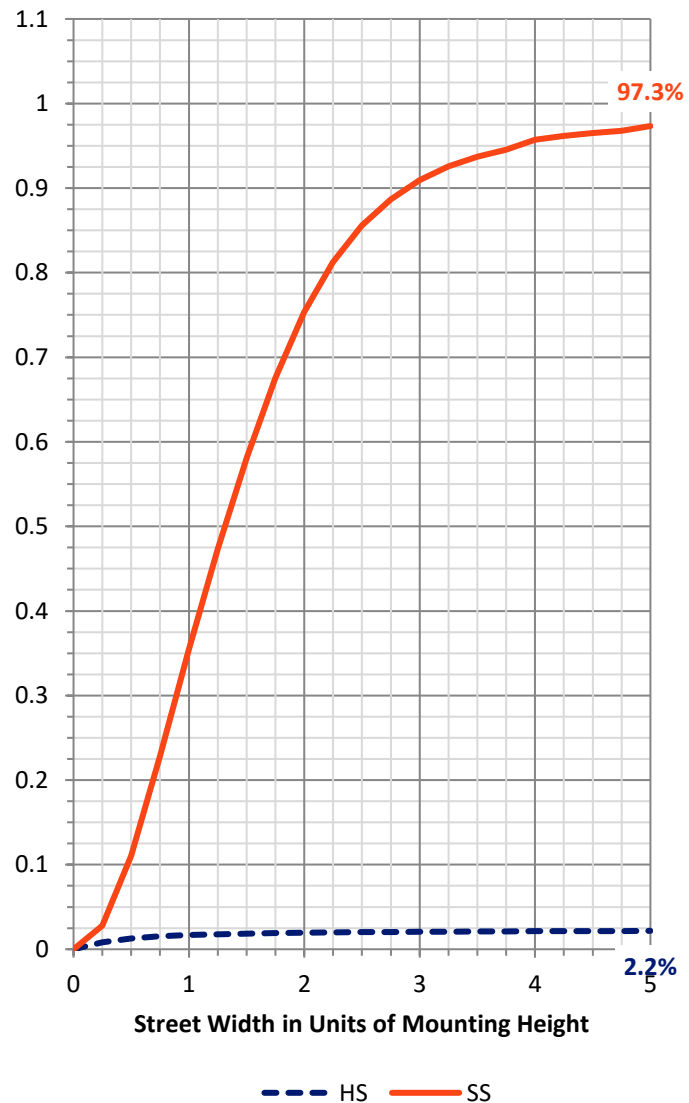
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	168.3	0.0	168.3
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	7257.7	0.0	7257.7
	% Fixture	97.7	0.0	97.7
Total	Lumens	7426.1	0.0	7426.1
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	18.7	0.3
10°-20°	75.7	1.0
20°-30°	221.9	3.0
30°-40°	518.2	7.0
40°-50°	973.4	13.1
50°-60°	1613.2	21.7
60°-70°	2560.9	34.5
70°-80°	1324.4	17.8
80°-90°	119.6	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°	7426.1	100.0
0°-180°	7426.1	100.0



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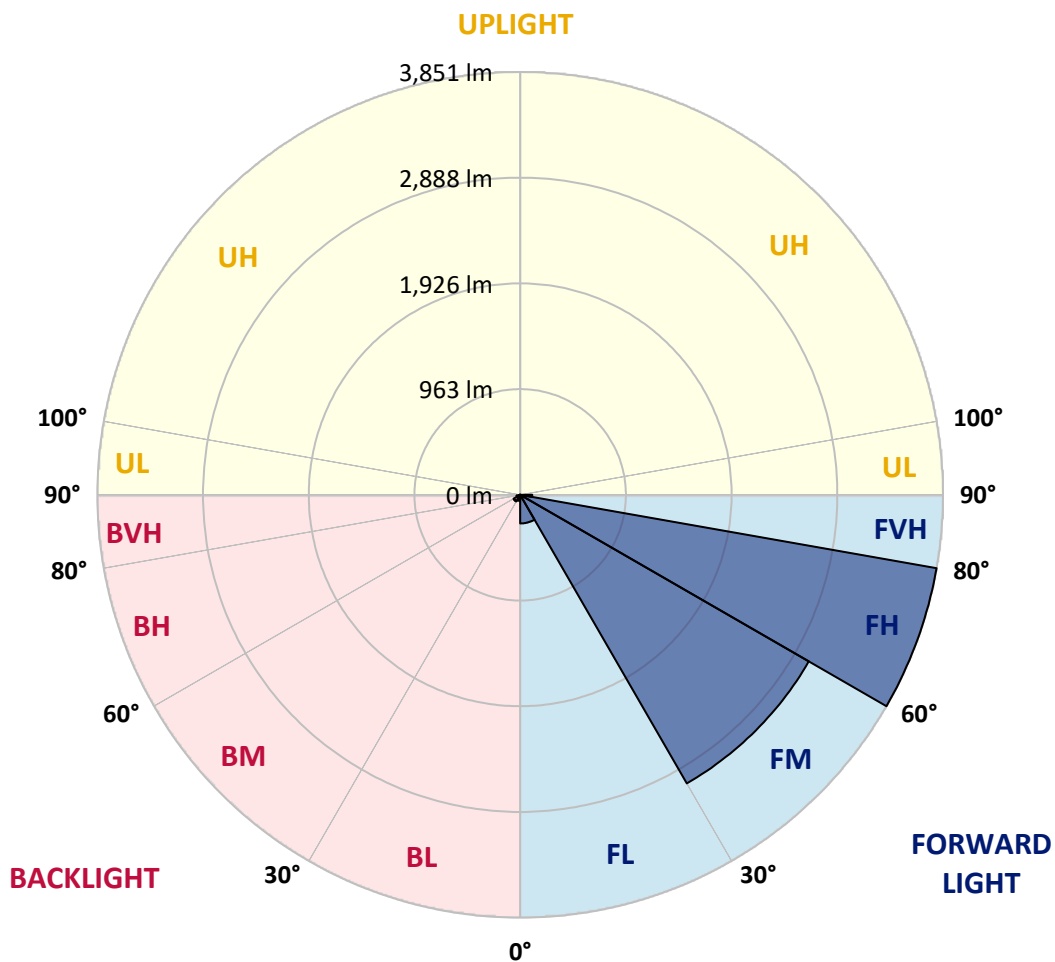
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	261.3	3.5			
FM	(30°-60°)	3035.1	40.9			
FH	(60°-80°)	3851.2	51.9			G2/5000
FVH	(80°-90°)	110.2	1.5			G2/225
BL	(0°-30°)	55.0	0.7	B0/110		
BM	(30°-60°)	69.8	0.9	B0/220		
BH	(60°-80°)	34.1	0.5	B0/110		G0/110
BVH	(80°-90°)	9.5	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°	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6
2.5°	200.9	200.9	200.9	200.9	199.6	198.4	197.1	195.8	194.5	194.5	193.3
5°	227.8	229.1	227.8	226.5	224.0	222.7	218.9	216.3	212.5	211.2	207.4
7.5°	264.9	263.6	264.9	261.1	256.0	254.7	249.6	243.2	238.0	230.4	225.3
10°	318.7	317.4	318.7	311.0	303.4	296.9	288.0	280.3	268.7	259.8	249.6
12.5°	404.5	404.5	401.9	391.6	381.4	367.4	353.2	336.7	316.1	298.2	281.6
15°	536.3	529.9	518.3	511.9	494.0	472.3	456.9	423.6	394.2	366.0	332.7
17.5°	695.0	682.1	673.2	659.2	636.1	607.9	582.3	533.7	504.3	458.2	410.9
20°	876.7	861.4	858.8	837.0	812.7	782.1	744.9	687.3	637.4	579.8	513.2
22.5°	1062.3	1064.8	1054.6	1039.3	1015.0	979.1	921.5	869.0	807.6	734.7	648.9
25°	1269.7	1268.4	1259.4	1241.5	1223.5	1178.8	1132.7	1082.8	1009.9	916.4	814.1
27.5°	1464.2	1462.9	1441.1	1442.4	1407.9	1391.3	1346.4	1292.7	1204.4	1126.3	1015.0
30°	1667.7	1654.9	1640.8	1630.6	1606.2	1576.8	1553.8	1489.8	1423.3	1331.1	1240.2
32.5°	1873.8	1859.6	1863.5	1850.7	1831.5	1802.1	1767.5	1715.1	1643.4	1553.8	1469.3
35°	2125.9	2119.5	2109.2	2113.1	2109.2	2087.5	2058.1	1988.9	1910.9	1825.1	1738.1
37.5°	2312.8	2306.3	2312.8	2339.6	2346.1	2360.1	2338.3	2303.8	2247.5	2154.1	2063.2
40°	2485.5	2486.8	2516.3	2549.5	2572.6	2618.6	2626.3	2612.3	2567.5	2481.7	2362.7
42.5°	2640.4	2659.6	2686.5	2741.5	2791.5	2856.8	2905.3	2913.0	2879.7	2823.5	2703.1
45°	2813.2	2829.9	2872.1	2937.3	3006.4	3087.1	3165.1	3206.2	3203.6	3163.9	3034.6
47.5°	3006.4	3028.2	3074.3	3128.0	3220.2	3311.1	3412.2	3485.1	3515.8	3460.9	3335.4
50°	3240.7	3249.6	3289.3	3358.4	3442.9	3547.8	3658.0	3764.1	3824.3	3773.1	3643.8
52.5°	3518.4	3521.0	3558.1	3622.1	3689.9	3805.1	3912.6	4059.8	4137.9	4109.7	3954.9
55°	3899.8	3892.1	3917.8	3972.8	4027.8	4139.2	4246.7	4413.1	4527.0	4529.5	4364.4
57.5°	4420.8	4402.8	4419.5	4463.0	4524.4	4628.1	4763.8	4910.9	5063.3	5053.1	4917.3
60°	5146.5	5140.0	5170.7	5243.8	5348.7	5456.2	5609.8	5808.1	5942.5	5988.6	5846.5
62.5°	5629.0	5646.9	5717.2	5829.9	6032.1	6254.8	6540.2	6843.6	7099.6	7214.7	7018.9
65°	5421.6	5451.1	5561.2	5727.5	5995.0	6329.1	6707.9	7205.8	7647.4	7822.7	7619.2
66°	5246.3	5293.6	5397.3	5573.9	5853.0	6217.7	6613.2	7163.6	7660.1	7857.3	7649.9
67.5°	4942.9	4976.2	5094.0	5289.8	5589.2	5950.2	6377.7	6958.7	7519.4	7728.0	7521.9
70°	4324.8	4337.5	4433.5	4599.9	4831.6	5201.5	5589.2	6148.6	6664.4	6957.5	6732.2
72.5°	3218.9	3236.9	3395.6	3698.9	3999.7	4209.6	4438.6	4886.6	5219.4	5493.3	5449.8
75°	1548.7	1556.4	1662.6	2105.4	2691.6	2942.4	3154.9	3501.8	3628.5	3857.6	3823.0
77.5°	981.7	998.3	1067.4	1175.0	1507.7	1806.0	1973.6	2172.0	2209.1	2402.3	2289.7
80°	270.0	313.6	382.7	563.2	966.3	1151.9	1227.4	1219.7	1227.4	1168.6	1130.1
82.5°	55.1	53.8	65.3	101.1	426.2	670.7	724.4	616.9	613.0	590.1	609.2
85°	14.0	12.8	15.3	32.0	72.9	198.4	249.6	139.5	106.2	101.1	89.6
87.5°	3.8	3.8	3.8	6.4	7.7	10.2	14.0	10.2	7.7	7.7	7.7
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):

	55°	60°	65°	70°	75°	80°	85°	90°	95°	100°	105°
0°	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6
2.5°	192.0	192.0	190.7	189.4	189.4	188.2	186.9	185.6	184.3	183.1	181.8
5°	203.5	200.9	197.1	194.5	192.0	188.2	185.6	183.1	180.5	179.2	176.7
7.5°	218.9	212.5	207.4	199.6	194.5	189.4	184.3	180.5	176.7	174.0	171.5
10°	238.0	227.8	217.6	207.4	198.4	190.7	183.1	176.7	172.7	168.9	166.4
12.5°	262.4	247.0	232.9	217.6	203.5	192.0	181.8	174.0	168.9	165.1	161.3
15°	302.0	277.8	253.4	230.4	212.5	194.5	180.5	171.5	165.1	161.3	157.4
17.5°	364.7	321.2	282.9	250.9	221.4	198.4	180.5	168.9	161.3	156.2	152.3
20°	455.6	384.0	322.5	276.5	238.0	204.7	180.5	165.1	157.4	151.1	147.2
22.5°	563.2	473.6	389.1	312.3	257.3	213.8	180.5	161.3	152.3	147.2	142.0
25°	720.6	601.6	486.3	378.9	289.2	227.8	184.3	158.7	148.5	142.0	136.9
27.5°	904.8	761.5	618.1	467.2	337.9	248.3	189.4	156.2	144.7	136.9	131.8
30°	1114.8	956.1	780.7	584.9	401.9	275.2	198.4	154.9	139.5	131.8	125.4
32.5°	1342.6	1175.0	983.0	735.9	496.6	316.1	209.9	153.6	134.4	125.4	117.8
35°	1614.0	1457.8	1223.5	948.4	643.8	386.5	235.5	156.2	129.3	119.1	110.0
37.5°	1910.9	1744.5	1496.2	1173.7	789.7	465.9	254.7	152.3	120.3	110.0	101.1
40°	2210.3	2019.6	1767.5	1410.4	975.3	563.2	279.0	148.5	111.3	101.1	92.2
42.5°	2502.2	2301.2	2027.4	1653.6	1171.1	678.3	309.8	148.5	104.9	92.2	83.2
45°	2808.1	2566.2	2266.7	1886.5	1365.7	810.1	353.2	147.2	97.3	84.5	74.2
47.5°	3097.3	2810.6	2466.3	2091.4	1574.2	954.8	403.2	148.5	90.9	76.8	67.8
50°	3371.3	3042.3	2671.2	2274.3	1774.0	1111.0	464.6	149.8	84.5	70.4	61.4
52.5°	3670.7	3306.0	2891.3	2462.5	1971.0	1268.4	536.3	152.3	78.0	64.0	56.3
55°	4041.9	3637.4	3162.6	2692.9	2179.6	1427.1	605.4	154.9	71.6	58.9	51.2
57.5°	4576.9	4116.1	3602.9	3038.4	2456.1	1607.5	677.0	161.3	66.5	55.1	47.3
60°	5447.2	4898.2	4305.5	3640.0	2869.5	1852.0	780.7	175.3	60.2	50.0	44.8
62.5°	6494.2	5833.7	5079.8	4272.3	3258.6	2017.1	849.9	190.7	55.1	46.0	42.2
65°	7021.4	6189.5	5320.5	4448.9	3308.5	1968.5	821.7	185.6	48.7	40.9	35.8
66°	7036.9	6170.4	5287.2	4410.5	3257.3	1909.6	794.8	183.1	47.3	39.7	33.3
67.5°	6890.9	6005.2	5110.6	4236.4	3106.3	1795.7	746.1	174.0	43.5	35.8	29.4
70°	6170.4	5307.8	4487.3	3679.7	2672.4	1512.8	625.9	153.6	38.4	32.0	26.9
72.5°	4918.6	4215.9	3524.9	2895.1	2077.2	1135.3	494.0	125.4	33.3	28.2	23.1
75°	3435.2	2858.0	2331.9	1882.7	1305.5	679.6	320.0	88.3	28.2	23.1	19.2
77.5°	1917.3	1520.5	1149.3	875.4	520.9	212.5	106.2	44.8	24.3	18.0	15.3
80°	975.3	723.2	550.3	405.8	240.7	110.0	53.8	29.4	19.2	14.0	12.8
82.5°	567.0	416.0	331.5	262.4	165.1	83.2	43.5	21.8	12.8	10.2	11.5
85°	126.7	167.6	142.0	120.3	88.3	52.5	30.7	14.0	8.9	8.9	10.2
87.5°	10.2	14.0	12.8	16.7	18.0	16.7	12.8	7.7	6.4	7.7	7.7
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°	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6	185.6
2.5°	180.5	179.2	179.2	177.9	176.7	176.7	176.7	175.3	176.7	176.7	176.7
5°	175.3	174.0	172.7	171.5	170.2	168.9	168.9	167.6	167.6	167.6	168.9
7.5°	170.2	167.6	166.4	163.8	162.5	161.3	161.3	160.0	160.0	160.0	160.0
10°	163.8	161.3	158.7	157.4	156.2	153.6	153.6	152.3	151.1	151.1	151.1
12.5°	158.7	156.2	153.6	151.1	148.5	147.2	145.9	144.7	143.3	143.3	143.3
15°	153.6	149.8	147.2	144.7	142.0	139.5	138.2	136.9	135.6	134.4	134.4
17.5°	148.5	144.7	140.7	138.2	135.6	133.1	131.8	128.0	128.0	126.7	126.7
20°	142.0	138.2	134.4	131.8	129.3	126.7	124.2	121.6	119.1	117.8	117.8
22.5°	136.9	133.1	129.3	125.4	121.6	117.8	115.2	112.7	111.3	110.0	108.7
25°	131.8	126.7	121.6	117.8	114.0	110.0	107.5	104.9	102.4	101.1	101.1
27.5°	125.4	120.3	115.2	110.0	106.2	102.4	99.8	96.0	94.7	93.4	92.2
30°	119.1	112.7	107.5	102.4	98.5	93.4	90.9	88.3	85.8	85.8	84.5
32.5°	111.3	104.9	99.8	94.7	89.6	85.8	83.2	80.7	79.3	76.8	76.8
35°	103.6	97.3	90.9	85.8	82.0	78.0	75.5	72.9	70.4	69.1	69.1
37.5°	94.7	88.3	83.2	78.0	74.2	70.4	67.8	65.3	64.0	62.7	61.4
40°	84.5	78.0	74.2	70.4	66.5	64.0	60.2	57.6	56.3	55.1	53.8
42.5°	75.5	69.1	66.5	64.0	60.2	57.6	53.8	51.2	48.7	47.3	46.0
45°	67.8	62.7	60.2	57.6	53.8	50.0	47.3	44.8	42.2	40.9	40.9
47.5°	60.2	56.3	53.8	51.2	47.3	44.8	40.9	39.7	37.1	37.1	37.1
50°	55.1	51.2	48.7	46.0	43.5	39.7	37.1	35.8	34.5	34.5	35.8
52.5°	51.2	47.3	44.8	42.2	39.7	37.1	34.5	33.3	33.3	34.5	35.8
55°	47.3	43.5	40.9	38.4	35.8	34.5	32.0	32.0	33.3	34.5	35.8
57.5°	44.8	39.7	37.1	35.8	33.3	32.0	32.0	32.0	33.3	34.5	37.1
60°	40.9	35.8	33.3	33.3	30.7	30.7	30.7	32.0	33.3	35.8	37.1
62.5°	35.8	32.0	30.7	30.7	29.4	29.4	30.7	32.0	34.5	35.8	37.1
65°	30.7	28.2	28.2	28.2	28.2	29.4	30.7	32.0	33.3	35.8	37.1
66°	28.2	26.9	26.9	28.2	28.2	29.4	30.7	32.0	33.3	34.5	35.8
67.5°	26.9	25.6	25.6	26.9	28.2	28.2	29.4	32.0	33.3	34.5	34.5
70°	23.1	23.1	23.1	25.6	26.9	28.2	29.4	30.7	32.0	33.3	34.5
72.5°	20.5	20.5	21.8	23.1	25.6	26.9	28.2	29.4	32.0	33.3	33.3
75°	18.0	18.0	20.5	21.8	24.3	25.6	28.2	29.4	30.7	32.0	32.0
77.5°	15.3	16.7	19.2	21.8	23.1	25.6	26.9	28.2	29.4	30.7	30.7
80°	14.0	16.7	19.2	20.5	21.8	23.1	24.3	26.9	28.2	29.4	30.7
82.5°	14.0	15.3	18.0	19.2	20.5	23.1	24.3	25.6	26.9	28.2	29.4
85°	11.5	14.0	15.3	18.0	19.2	21.8	23.1	23.1	24.3	25.6	26.9
87.5°	8.9	10.2	10.2	12.8	14.0	16.7	19.2	19.2	20.5	21.8	23.1
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):

	165°	170°	175°	180°
0°	185.6	185.6	185.6	185.6
2.5°	176.7	177.9	177.9	177.9
5°	168.9	168.9	168.9	168.9
7.5°	160.0	160.0	160.0	160.0
10°	151.1	151.1	152.3	151.1
12.5°	143.3	142.0	142.0	142.0
15°	134.4	134.4	133.1	134.4
17.5°	125.4	125.4	124.2	124.2
20°	116.5	116.5	116.5	116.5
22.5°	108.7	107.5	107.5	107.5
25°	99.8	99.8	99.8	99.8
27.5°	92.2	92.2	92.2	92.2
30°	84.5	84.5	83.2	83.2
32.5°	76.8	76.8	76.8	76.8
35°	69.1	69.1	67.8	67.8
37.5°	60.2	60.2	60.2	60.2
40°	52.5	52.5	52.5	52.5
42.5°	46.0	46.0	44.8	44.8
45°	39.7	39.7	39.7	39.7
47.5°	37.1	37.1	37.1	37.1
50°	35.8	37.1	37.1	37.1
52.5°	37.1	37.1	37.1	37.1
55°	37.1	38.4	38.4	38.4
57.5°	37.1	38.4	38.4	39.7
60°	38.4	39.7	39.7	39.7
62.5°	38.4	39.7	39.7	39.7
65°	37.1	38.4	38.4	38.4
66°	37.1	37.1	37.1	38.4
67.5°	35.8	37.1	37.1	37.1
70°	34.5	35.8	35.8	37.1
72.5°	34.5	35.8	35.8	35.8
75°	33.3	33.3	34.5	34.5
77.5°	32.0	32.0	33.3	33.3
80°	30.7	32.0	32.0	32.0
82.5°	29.4	30.7	30.7	30.7
85°	26.9	28.2	28.2	28.2
87.5°	23.1	23.1	24.3	24.3
90°	0.0	0.0	0.0	0.0

(END OF REPORT)