

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: P181548

Luminaire Tested: **ICM-E04-LED-E1-T4-HSS-7030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181548
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-7030
Description: ICON SITE MEDIUM LED LUMINAIRE
(4) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (84) 3000K CCT, 70 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 6572.9 lumens
Efficiency: N/A
Efficacy: 67.6 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

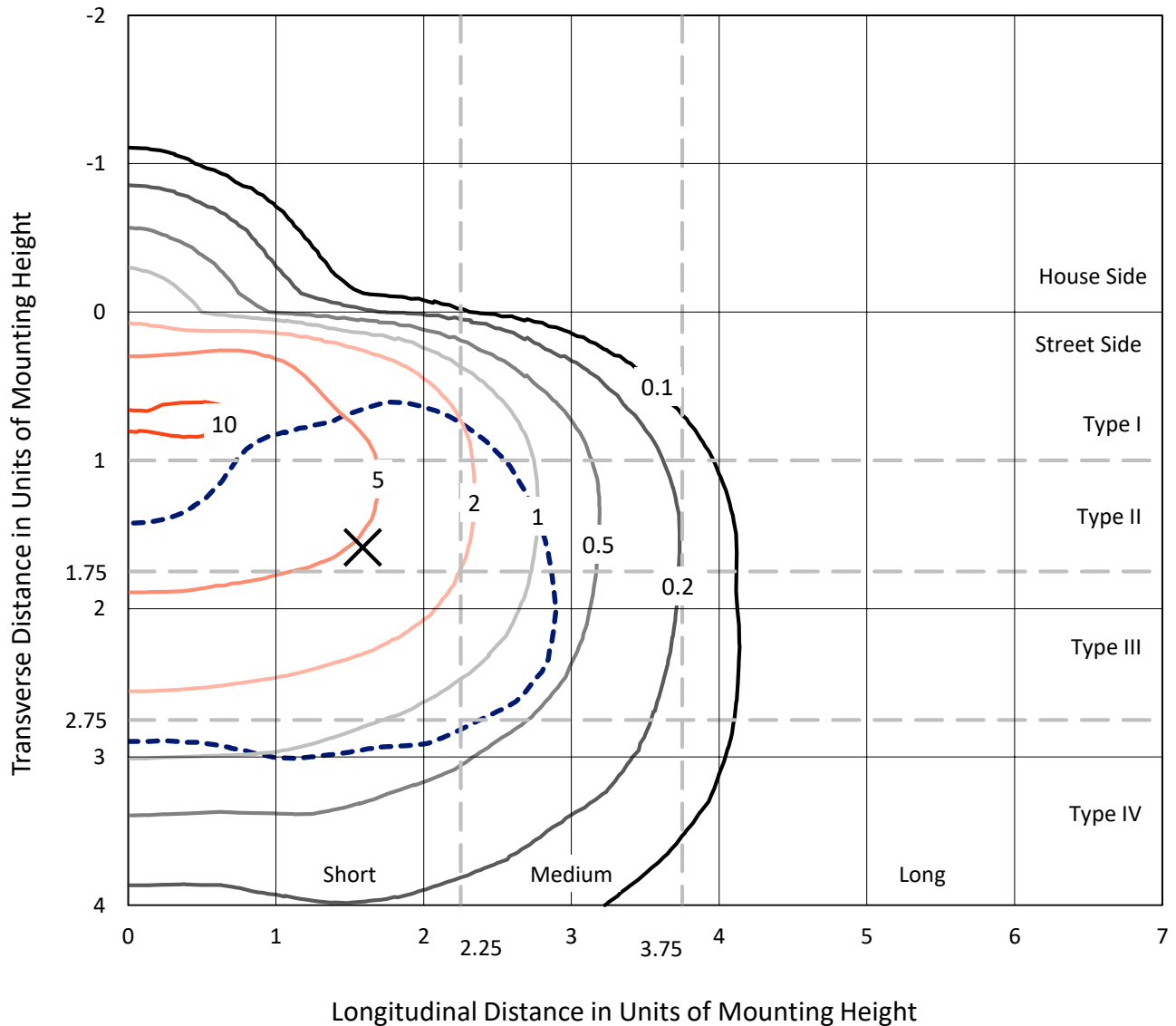
Input Watts (W): 97.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

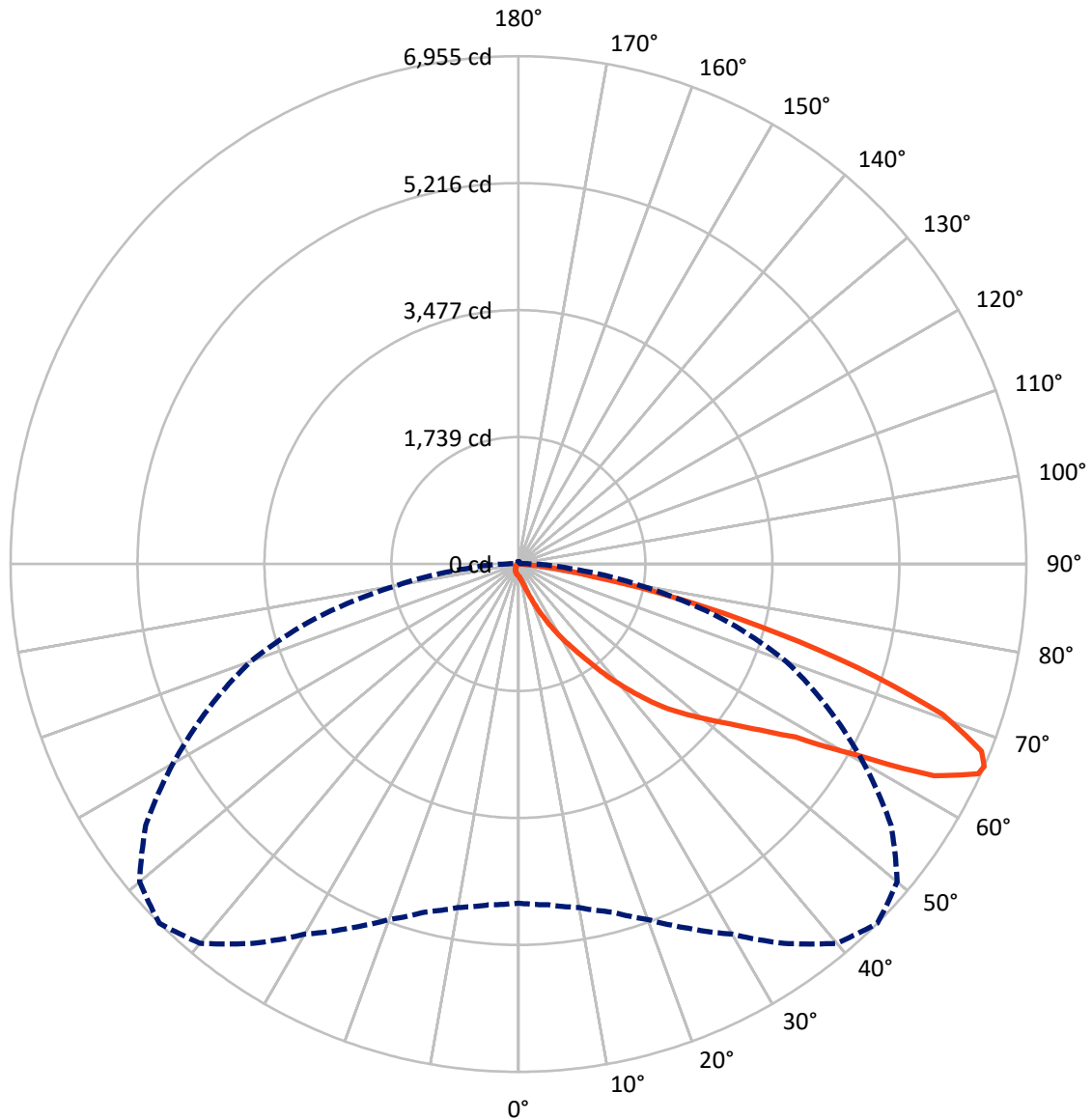
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 10.4 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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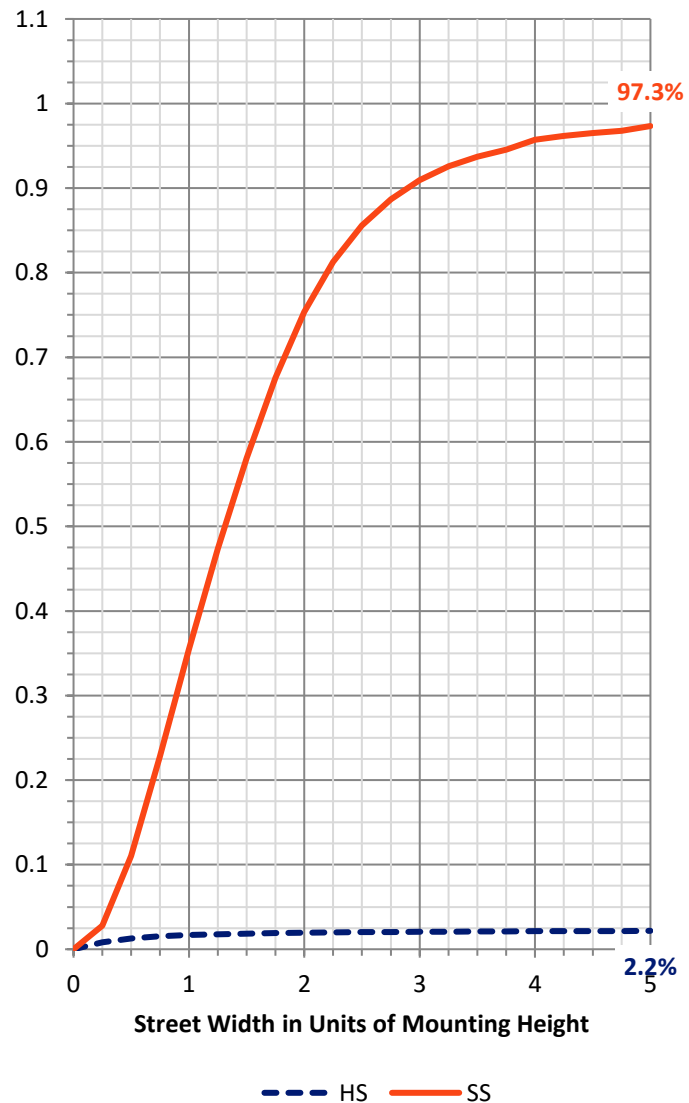
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	149.0	0.0	149.0
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	6423.9	0.0	6423.9
	% Fixture	97.7	0.0	97.7
Total	Lumens	6572.9	0.0	6572.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.5	0.3
10°-20°	67.0	1.0
20°-30°	196.4	3.0
30°-40°	458.7	7.0
40°-50°	861.6	13.1
50°-60°	1427.8	21.7
60°-70°	2266.7	34.5
70°-80°	1172.2	17.8
80°-90°	105.9	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°	6572.9	100.0
0°-180°	6572.9	100.0



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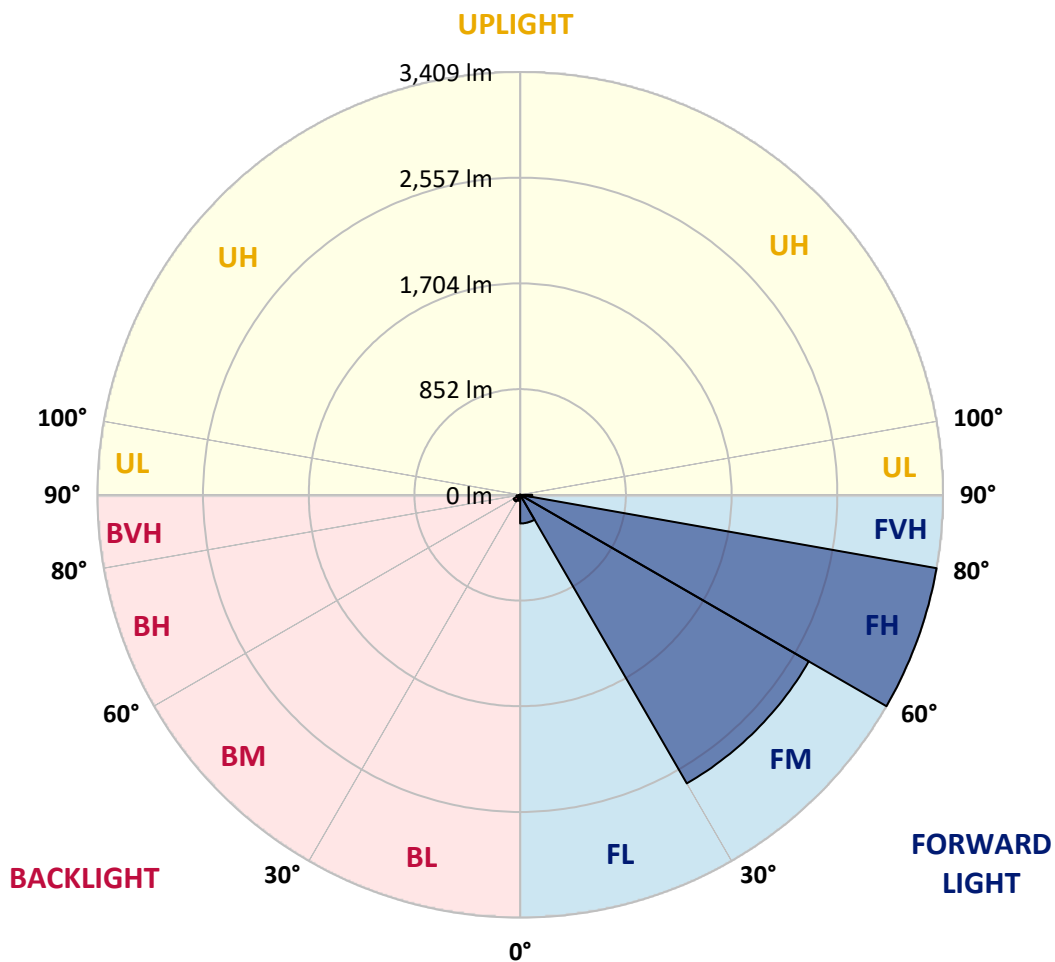
CATALOG NUMBER: ICM-E04-LED-E1-T4-HSS-7030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	231.3	3.5			
FM	(30°-60°)	2686.4	40.9			
FH	(60°-80°)	3408.8	51.9			G2/5000
FVH	(80°-90°)	97.5	1.5			G1/100
BL	(0°-30°)	48.6	0.7	B0/110		
BM	(30°-60°)	61.8	0.9	B0/220		
BH	(60°-80°)	30.2	0.5	B0/110		G0/110
BVH	(80°-90°)	8.4	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°	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3
2.5°	177.9	177.9	177.9	177.9	176.7	175.6	174.4	173.3	172.2	172.2	171.1
5°	201.7	202.8	201.7	200.6	198.2	197.1	193.7	191.4	188.1	186.9	183.5
7.5°	234.5	233.4	234.5	231.1	226.6	225.4	220.9	215.3	210.7	203.9	199.4
10°	282.0	280.9	282.0	275.3	268.5	262.8	254.9	248.1	237.9	230.0	220.9
12.5°	358.0	358.0	355.7	346.6	337.6	325.1	312.7	298.0	279.8	263.9	249.2
15°	474.7	469.0	458.8	453.1	437.3	418.0	404.5	375.0	348.9	324.0	294.5
17.5°	615.2	603.8	595.9	583.4	563.0	538.1	515.4	472.4	446.3	405.6	363.6
20°	776.0	762.4	760.1	740.8	719.4	692.2	659.4	608.4	564.2	513.2	454.2
22.5°	940.3	942.5	933.5	919.9	898.3	866.6	815.6	769.2	714.8	650.2	574.3
25°	1123.8	1122.6	1114.7	1098.9	1083.0	1043.4	1002.6	958.4	893.8	811.1	720.5
27.5°	1296.0	1294.8	1275.5	1276.8	1246.1	1231.4	1191.7	1144.2	1066.1	996.9	898.3
30°	1476.1	1464.8	1452.3	1443.3	1421.7	1395.6	1375.3	1318.6	1259.7	1178.1	1097.7
32.5°	1658.5	1646.1	1649.4	1638.1	1621.1	1595.1	1564.5	1518.1	1454.6	1375.3	1300.5
35°	1881.7	1876.0	1866.9	1870.3	1866.9	1847.6	1821.6	1760.5	1691.4	1615.5	1538.4
37.5°	2047.1	2041.4	2047.1	2070.8	2076.5	2088.9	2069.7	2039.1	1989.3	1906.6	1826.2
40°	2200.0	2201.1	2227.2	2256.7	2277.0	2317.8	2324.6	2312.1	2272.5	2196.6	2091.3
42.5°	2337.0	2354.1	2377.9	2426.5	2470.7	2528.5	2571.6	2578.3	2548.9	2499.1	2392.6
45°	2490.0	2504.8	2542.1	2599.9	2661.0	2732.4	2801.5	2837.8	2835.6	2800.4	2686.0
47.5°	2661.0	2680.3	2721.1	2768.7	2850.2	2930.6	3020.2	3084.8	3111.9	3063.2	2952.2
50°	2868.4	2876.3	2911.4	2972.6	3047.4	3140.2	3237.7	3331.7	3385.0	3339.6	3225.2
52.5°	3114.2	3116.5	3149.3	3206.0	3266.0	3367.9	3463.1	3593.4	3662.4	3637.6	3500.5
55°	3451.7	3445.0	3467.6	3516.4	3565.0	3663.7	3758.8	3906.1	4006.9	4009.1	3863.0
57.5°	3912.9	3897.0	3911.7	3950.3	4004.6	4096.4	4216.5	4346.7	4481.5	4472.5	4352.4
60°	4555.2	4549.5	4576.7	4641.2	4734.2	4829.3	4965.2	5140.9	5259.8	5300.6	5174.8
62.5°	4982.3	4998.1	5060.4	5160.1	5339.1	5536.2	5788.9	6057.3	6283.9	6385.8	6212.5
65°	4798.7	4824.8	4922.2	5069.5	5306.3	5601.9	5937.2	6377.9	6768.8	6923.9	6743.9
66°	4643.6	4685.4	4777.2	4933.5	5180.5	5503.4	5853.4	6340.5	6780.0	6954.6	6771.0
67.5°	4375.0	4404.5	4508.7	4682.1	4947.1	5266.6	5645.0	6159.3	6655.5	6840.1	6657.7
70°	3827.8	3839.2	3924.2	4071.5	4276.5	4603.8	4947.1	5442.2	5898.7	6158.2	5958.7
72.5°	2849.1	2864.9	3005.4	3273.9	3540.1	3725.9	3928.7	4325.2	4619.7	4862.2	4823.7
75°	1370.7	1377.5	1471.5	1863.5	2382.3	2604.4	2792.5	3099.5	3211.6	3414.4	3383.8
77.5°	868.9	883.6	944.7	1039.9	1334.5	1598.4	1746.8	1922.4	1955.3	2126.3	2026.6
80°	239.1	277.6	338.7	498.4	855.3	1019.5	1086.4	1079.6	1086.4	1034.3	1000.3
82.5°	48.7	47.5	57.8	89.5	377.2	593.6	641.2	546.0	542.6	522.2	539.3
85°	12.5	11.3	13.6	28.3	64.6	175.6	220.9	123.4	94.0	89.5	79.3
87.5°	3.4	3.4	3.4	5.7	6.8	9.0	12.5	9.0	6.8	6.8	6.8
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°	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3
2.5°	170.0	170.0	168.8	167.6	167.6	166.5	165.4	164.3	163.2	162.0	160.8
5°	180.1	177.9	174.4	172.2	170.0	166.5	164.3	162.0	159.7	158.6	156.4
7.5°	193.7	188.1	183.5	176.7	172.2	167.6	163.2	159.7	156.4	154.0	151.8
10°	210.7	201.7	192.6	183.5	175.6	168.8	162.0	156.4	152.9	149.5	147.3
12.5°	232.2	218.6	206.1	192.6	180.1	170.0	160.8	154.0	149.5	146.1	142.7
15°	267.4	245.9	224.3	203.9	188.1	172.2	159.7	151.8	146.1	142.7	139.3
17.5°	322.9	284.4	250.3	222.0	196.0	175.6	159.7	149.5	142.7	138.2	134.8
20°	403.3	339.8	285.5	244.7	210.7	181.2	159.7	146.1	139.3	133.7	130.2
22.5°	498.4	419.2	344.4	276.4	227.7	189.2	159.7	142.7	134.8	130.2	125.8
25°	637.8	532.5	430.5	335.4	256.0	201.7	163.2	140.5	131.4	125.8	121.2
27.5°	800.9	674.1	547.2	413.5	299.1	219.8	167.6	138.2	128.0	121.2	116.7
30°	986.7	846.2	691.1	517.7	355.7	243.5	175.6	137.1	123.4	116.7	111.0
32.5°	1188.4	1039.9	870.1	651.4	439.5	279.8	185.8	135.9	119.0	111.0	104.2
35°	1428.5	1290.3	1083.0	839.4	569.9	342.1	208.5	138.2	114.4	105.4	97.4
37.5°	1691.4	1544.1	1324.3	1038.8	699.0	412.4	225.4	134.8	106.5	97.4	89.5
40°	1956.4	1787.6	1564.5	1248.4	863.3	498.4	247.0	131.4	98.5	89.5	81.6
42.5°	2214.7	2036.8	1794.4	1463.6	1036.6	600.4	274.1	131.4	92.9	81.6	73.7
45°	2485.5	2271.4	2006.2	1669.8	1208.8	717.1	312.7	130.2	86.1	74.8	65.7
47.5°	2741.5	2487.7	2183.0	1851.1	1393.4	845.1	356.8	131.4	80.5	68.0	60.0
50°	2983.9	2692.8	2364.2	2013.0	1570.1	983.4	411.3	132.6	74.8	62.3	54.4
52.5°	3249.0	2926.2	2559.1	2179.5	1744.6	1122.6	474.7	134.8	69.1	56.7	49.9
55°	3577.5	3219.6	2799.3	2383.5	1929.2	1263.1	535.8	137.1	63.4	52.1	45.3
57.5°	4051.1	3643.2	3188.9	2689.4	2174.0	1422.9	599.3	142.7	58.9	48.7	42.0
60°	4821.4	4335.4	3810.9	3221.8	2539.8	1639.3	691.1	155.2	53.2	44.2	39.6
62.5°	5748.0	5163.5	4496.2	3781.4	2884.2	1785.4	752.2	168.8	48.7	40.7	37.4
65°	6214.8	5478.5	4709.2	3937.8	2928.4	1742.3	727.3	164.3	43.1	36.3	31.7
66°	6228.4	5461.4	4679.7	3903.7	2883.1	1690.2	703.5	162.0	42.0	35.2	29.5
67.5°	6099.2	5315.3	4523.5	3749.7	2749.4	1589.4	660.5	154.0	38.5	31.7	26.0
70°	5461.4	4697.9	3971.7	3257.0	2365.4	1339.0	554.0	135.9	34.0	28.3	23.8
72.5°	4353.5	3731.6	3119.8	2562.5	1838.6	1004.8	437.3	111.0	29.5	24.9	20.4
75°	3040.6	2529.6	2064.0	1666.4	1155.5	601.6	283.3	78.1	24.9	20.4	17.0
77.5°	1697.0	1345.8	1017.3	774.9	461.0	188.1	94.0	39.6	21.5	15.8	13.6
80°	863.3	640.1	487.2	359.1	212.9	97.4	47.5	26.0	17.0	12.5	11.3
82.5°	501.9	368.2	293.4	232.2	146.1	73.7	38.5	19.3	11.3	9.0	10.2
85°	112.2	148.4	125.8	106.5	78.1	46.4	27.2	12.5	7.9	7.9	9.0
87.5°	9.0	12.5	11.3	14.7	15.8	14.7	11.3	6.8	5.7	6.8	6.8
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°	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3	164.3
2.5°	159.7	158.6	158.6	157.5	156.4	156.4	156.4	155.2	156.4	156.4	156.4
5°	155.2	154.0	152.9	151.8	150.7	149.5	149.5	148.4	148.4	148.4	149.5
7.5°	150.7	148.4	147.3	145.0	143.9	142.7	142.7	141.6	141.6	141.6	141.6
10°	145.0	142.7	140.5	139.3	138.2	135.9	135.9	134.8	133.7	133.7	133.7
12.5°	140.5	138.2	135.9	133.7	131.4	130.2	129.1	128.0	126.9	126.9	126.9
15°	135.9	132.6	130.2	128.0	125.8	123.4	122.3	121.2	120.1	119.0	119.0
17.5°	131.4	128.0	124.7	122.3	120.1	117.9	116.7	113.3	113.3	112.2	112.2
20°	125.8	122.3	119.0	116.7	114.4	112.2	109.9	107.6	105.4	104.2	104.2
22.5°	121.2	117.9	114.4	111.0	107.6	104.2	102.0	99.7	98.5	97.4	96.3
25°	116.7	112.2	107.6	104.2	100.8	97.4	95.2	92.9	90.6	89.5	89.5
27.5°	111.0	106.5	102.0	97.4	94.0	90.6	88.4	84.9	83.8	82.7	81.6
30°	105.4	99.7	95.2	90.6	87.3	82.7	80.5	78.1	75.9	75.9	74.8
32.5°	98.5	92.9	88.4	83.8	79.3	75.9	73.7	71.3	70.2	68.0	68.0
35°	91.7	86.1	80.5	75.9	72.5	69.1	66.9	64.6	62.3	61.2	61.2
37.5°	83.8	78.1	73.7	69.1	65.7	62.3	60.0	57.8	56.7	55.5	54.4
40°	74.8	69.1	65.7	62.3	58.9	56.7	53.2	51.0	49.9	48.7	47.5
42.5°	66.9	61.2	58.9	56.7	53.2	51.0	47.5	45.3	43.1	42.0	40.7
45°	60.0	55.5	53.2	51.0	47.5	44.2	42.0	39.6	37.4	36.3	36.3
47.5°	53.2	49.9	47.5	45.3	42.0	39.6	36.3	35.2	32.8	32.8	32.8
50°	48.7	45.3	43.1	40.7	38.5	35.2	32.8	31.7	30.6	30.6	31.7
52.5°	45.3	42.0	39.6	37.4	35.2	32.8	30.6	29.5	29.5	30.6	31.7
55°	42.0	38.5	36.3	34.0	31.7	30.6	28.3	28.3	29.5	30.6	31.7
57.5°	39.6	35.2	32.8	31.7	29.5	28.3	28.3	28.3	29.5	30.6	32.8
60°	36.3	31.7	29.5	29.5	27.2	27.2	27.2	28.3	29.5	31.7	32.8
62.5°	31.7	28.3	27.2	27.2	26.0	26.0	27.2	28.3	30.6	31.7	32.8
65°	27.2	24.9	24.9	24.9	24.9	26.0	27.2	28.3	29.5	31.7	32.8
66°	24.9	23.8	23.8	24.9	24.9	26.0	27.2	28.3	29.5	30.6	31.7
67.5°	23.8	22.7	22.7	23.8	24.9	24.9	26.0	28.3	29.5	30.6	30.6
70°	20.4	20.4	20.4	22.7	23.8	24.9	26.0	27.2	28.3	29.5	30.6
72.5°	18.1	18.1	19.3	20.4	22.7	23.8	24.9	26.0	28.3	29.5	29.5
75°	15.8	15.8	18.1	19.3	21.5	22.7	24.9	26.0	27.2	28.3	28.3
77.5°	13.6	14.7	17.0	19.3	20.4	22.7	23.8	24.9	26.0	27.2	27.2
80°	12.5	14.7	17.0	18.1	19.3	20.4	21.5	23.8	24.9	26.0	27.2
82.5°	12.5	13.6	15.8	17.0	18.1	20.4	21.5	22.7	23.8	24.9	26.0
85°	10.2	12.5	13.6	15.8	17.0	19.3	20.4	20.4	21.5	22.7	23.8
87.5°	7.9	9.0	9.0	11.3	12.5	14.7	17.0	17.0	18.1	19.3	20.4
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):

	165°	170°	175°	180°
0°	164.3	164.3	164.3	164.3
2.5°	156.4	157.5	157.5	157.5
5°	149.5	149.5	149.5	149.5
7.5°	141.6	141.6	141.6	141.6
10°	133.7	133.7	134.8	133.7
12.5°	126.9	125.8	125.8	125.8
15°	119.0	119.0	117.9	119.0
17.5°	111.0	111.0	109.9	109.9
20°	103.1	103.1	103.1	103.1
22.5°	96.3	95.2	95.2	95.2
25°	88.4	88.4	88.4	88.4
27.5°	81.6	81.6	81.6	81.6
30°	74.8	74.8	73.7	73.7
32.5°	68.0	68.0	68.0	68.0
35°	61.2	61.2	60.0	60.0
37.5°	53.2	53.2	53.2	53.2
40°	46.4	46.4	46.4	46.4
42.5°	40.7	40.7	39.6	39.6
45°	35.2	35.2	35.2	35.2
47.5°	32.8	32.8	32.8	32.8
50°	31.7	32.8	32.8	32.8
52.5°	32.8	32.8	32.8	32.8
55°	32.8	34.0	34.0	34.0
57.5°	32.8	34.0	34.0	35.2
60°	34.0	35.2	35.2	35.2
62.5°	34.0	35.2	35.2	35.2
65°	32.8	34.0	34.0	34.0
66°	32.8	32.8	32.8	34.0
67.5°	31.7	32.8	32.8	32.8
70°	30.6	31.7	31.7	32.8
72.5°	30.6	31.7	31.7	31.7
75°	29.5	29.5	30.6	30.6
77.5°	28.3	28.3	29.5	29.5
80°	27.2	28.3	28.3	28.3
82.5°	26.0	27.2	27.2	27.2
85°	23.8	24.9	24.9	24.9
87.5°	20.4	20.4	21.5	21.5
90°	0.0	0.0	0.0	0.0

(END OF REPORT)