

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: P181537

Luminaire Tested: **ICM-E03-LED-E1-T4-HSS-8030**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181537
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-E03-LED-E1-T4-HSS-8030
Description: ICON SITE MEDIUM LED LUMINAIRE
(3) LIGHTBARS WITH AccuLED OPTICS - TYPE 4 W/ HOUSE SIDE SHIELD
Light Source: (63) 3000K CCT, 80 CRI LEDs
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 4555.3 lumens
Efficiency: N/A
Efficacy: 60.6 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.5' x L: 1' x H: 0.1')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B0 - U0 - G2

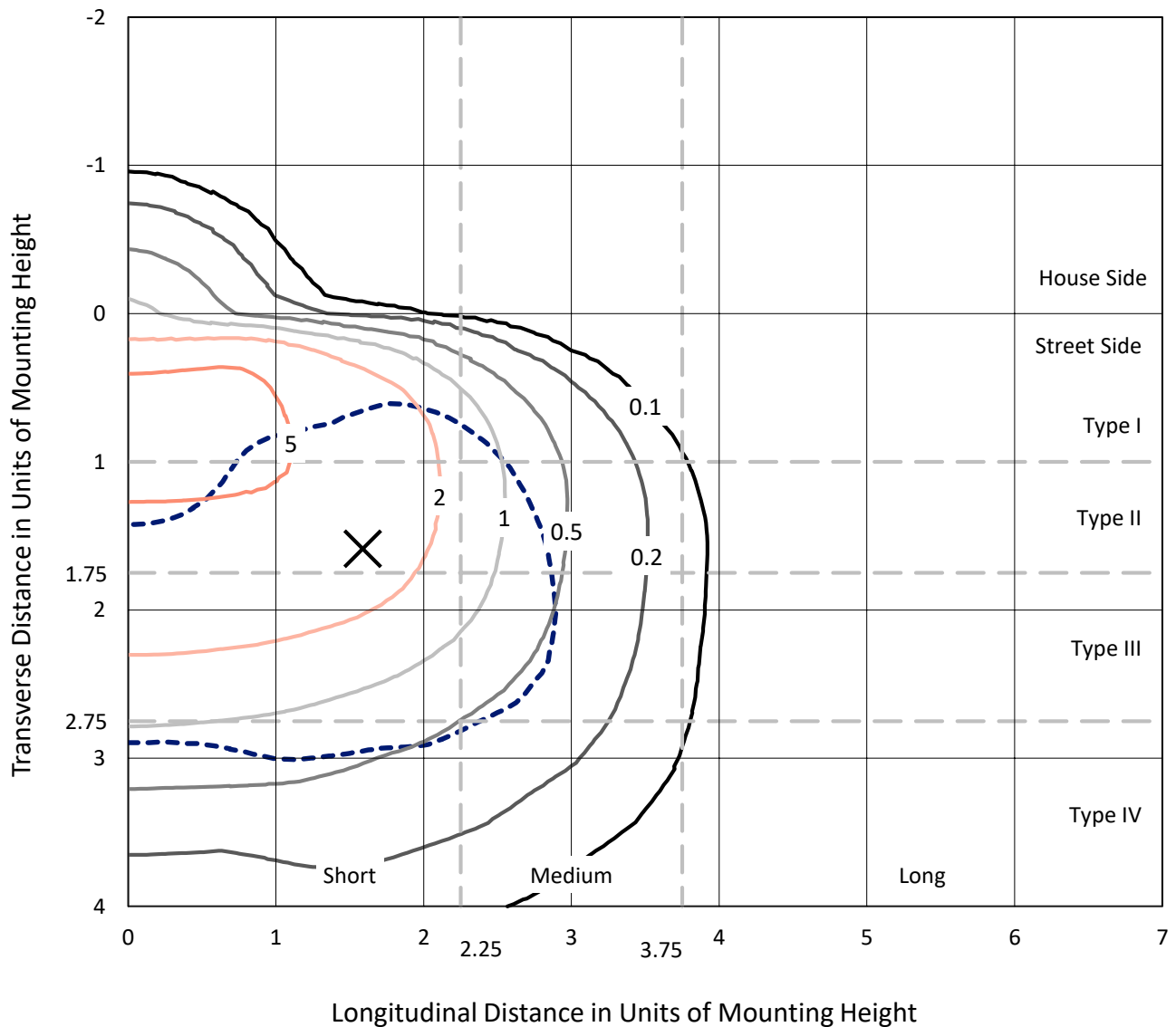
Input Watts (W): 75.2
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

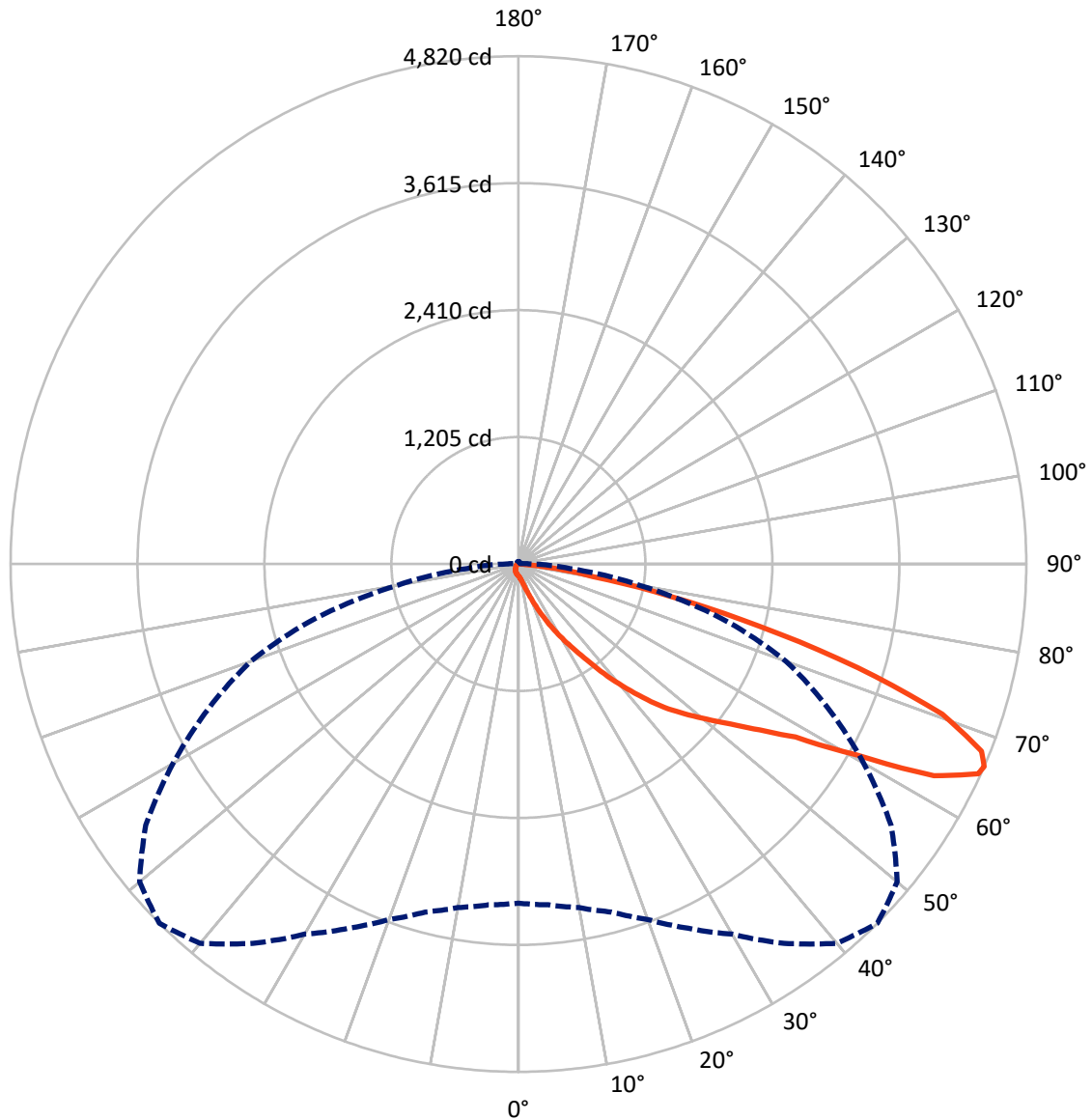
✕ Max cd
 - - - 1/2 Max cd



Based on 10 foot mounting height. Maximum calculated value = 7.2 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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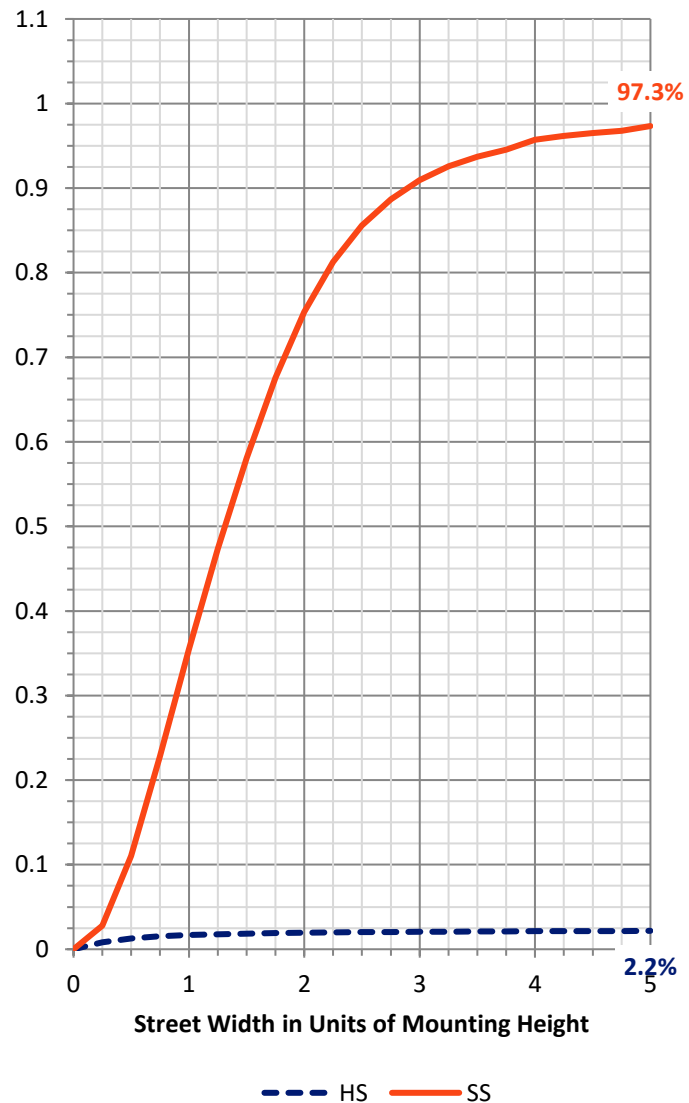
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	103.3	0.0	103.3
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	4452.1	0.0	4452.1
	% Fixture	97.7	0.0	97.7
Total	Lumens	4555.3	0.0	4555.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	11.5	0.3
10°-20°	46.5	1.0
20°-30°	136.1	3.0
30°-40°	317.9	7.0
40°-50°	597.1	13.1
50°-60°	989.6	21.7
60°-70°	1570.9	34.5
70°-80°	812.4	17.8
80°-90°	73.4	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°	4555.3	100.0
0°-180°	4555.3	100.0



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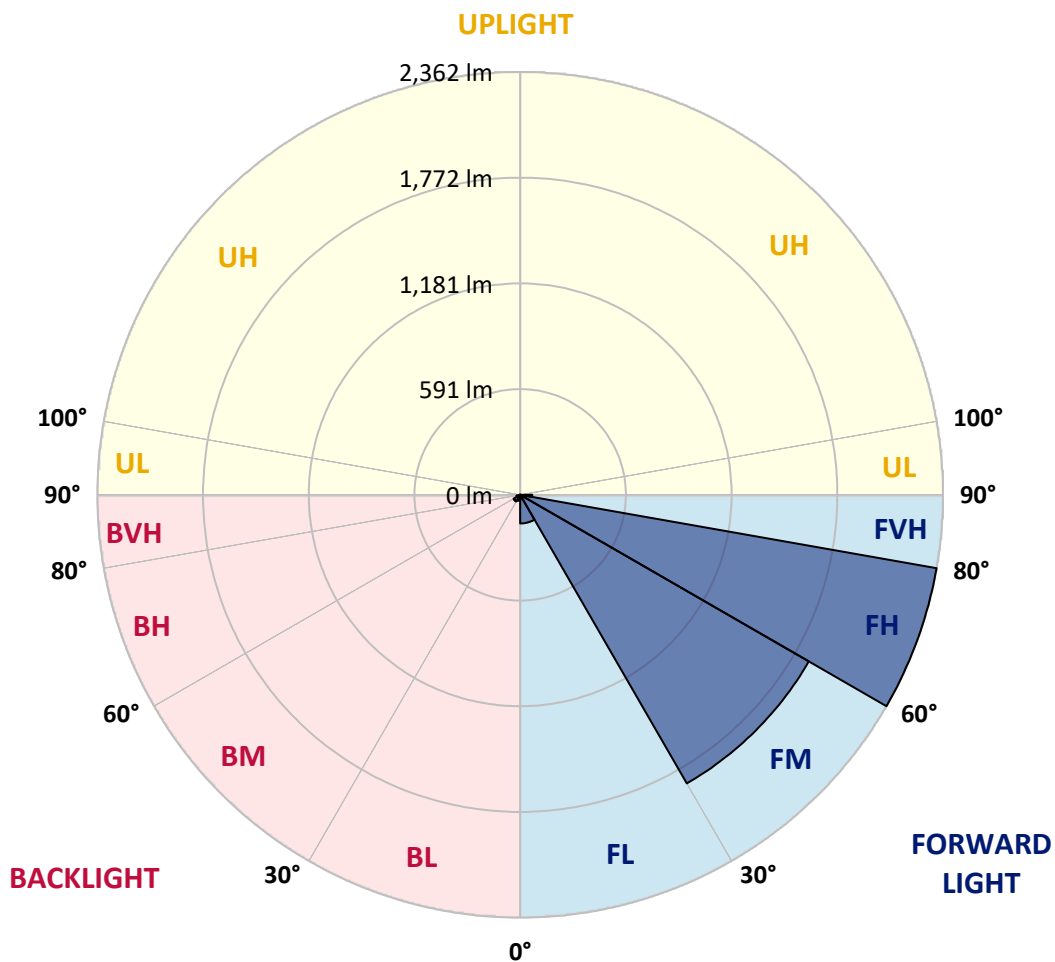
CATALOG NUMBER: ICM-E03-LED-E1-T4-HSS-8030

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	160.3	3.5			
FM (30°-60°)	1861.8	40.9			
FH (60°-80°)	2362.4	51.9			G2/5000
FVH (80°-90°)	67.6	1.5			G1/100
BL (0°-30°)	33.7	0.7	B0/110		
BM (30°-60°)	42.8	0.9	B0/220		
BH (60°-80°)	20.9	0.5	B0/110		G0/110
BVH (80°-90°)	5.8	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°	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9
2.5°	123.3	123.3	123.3	123.3	122.5	121.7	120.9	120.1	119.3	119.3	118.5
5°	139.7	140.6	139.7	139.0	137.4	136.7	134.2	132.7	130.3	129.6	127.2
7.5°	162.5	161.8	162.5	160.2	157.0	156.3	153.1	149.2	146.0	141.3	138.1
10°	195.5	194.7	195.5	190.8	186.0	182.1	176.7	171.9	164.8	159.3	153.1
12.5°	248.1	248.1	246.5	240.3	234.0	225.3	216.7	206.5	194.0	182.9	172.7
15°	328.9	325.0	318.0	314.0	303.1	289.7	280.3	259.9	241.8	224.6	204.1
17.5°	426.3	418.4	412.9	404.4	390.2	372.9	357.2	327.4	309.3	281.0	252.0
20°	537.8	528.4	526.8	513.5	498.5	479.7	456.9	421.6	391.0	355.6	314.8
22.5°	651.6	653.2	646.9	637.5	622.6	600.7	565.3	533.1	495.4	450.7	398.0
25°	778.8	778.1	772.6	761.6	750.6	723.1	694.8	664.2	619.4	562.1	499.4
27.5°	898.1	897.4	884.0	884.8	863.6	853.4	826.0	792.9	738.8	690.9	622.6
30°	1023.0	1015.2	1006.5	1000.2	985.3	967.3	953.1	913.9	873.0	816.6	760.7
32.5°	1149.4	1140.8	1143.2	1135.3	1123.5	1105.4	1084.3	1052.0	1008.1	953.1	901.3
35°	1304.1	1300.1	1293.9	1296.2	1293.9	1280.5	1262.4	1220.1	1172.2	1119.5	1066.1
37.5°	1418.7	1414.8	1418.7	1435.2	1439.1	1447.7	1434.4	1413.2	1378.6	1321.3	1265.6
40°	1524.7	1525.5	1543.5	1563.9	1578.1	1606.3	1611.1	1602.4	1574.9	1522.3	1449.3
42.5°	1619.7	1631.5	1647.9	1681.7	1712.3	1752.4	1782.2	1786.9	1766.5	1731.9	1658.1
45°	1725.7	1735.9	1761.8	1801.9	1844.2	1893.7	1941.6	1966.7	1965.1	1940.8	1861.5
47.5°	1844.2	1857.6	1885.9	1918.8	1975.4	2031.1	2093.1	2137.9	2156.7	2123.0	2046.0
50°	1987.9	1993.4	2017.8	2060.1	2111.9	2176.3	2243.8	2309.0	2345.9	2314.5	2235.2
52.5°	2158.2	2159.8	2182.6	2221.9	2263.5	2334.2	2400.1	2490.3	2538.2	2521.0	2426.0
55°	2392.2	2387.5	2403.3	2436.9	2470.7	2539.1	2605.0	2707.1	2776.9	2778.5	2677.2
57.5°	2711.7	2700.8	2711.0	2737.7	2775.4	2839.0	2922.2	3012.5	3105.9	3099.6	3016.4
60°	3156.9	3153.0	3171.8	3216.6	3281.0	3346.9	3441.1	3562.8	3645.2	3673.5	3586.4
62.5°	3453.0	3463.9	3507.1	3576.2	3700.2	3836.9	4011.9	4198.0	4355.0	4425.7	4305.5
65°	3325.7	3343.8	3411.3	3513.4	3677.5	3882.3	4114.8	4420.2	4691.0	4798.6	4673.8
66°	3218.2	3247.2	3310.8	3419.2	3590.3	3814.1	4056.7	4394.3	4698.9	4819.8	4692.6
67.5°	3032.1	3052.5	3124.8	3244.9	3428.6	3650.0	3912.2	4268.7	4612.5	4740.5	4614.1
70°	2652.9	2660.8	2719.6	2821.7	2963.8	3190.7	3428.6	3771.7	4088.1	4267.8	4129.7
72.5°	1974.5	1985.6	2082.9	2268.9	2453.5	2582.2	2722.8	2997.6	3201.7	3369.7	3343.0
75°	950.0	954.7	1019.8	1291.5	1651.1	1804.9	1935.3	2148.1	2225.8	2366.3	2345.1
77.5°	602.1	612.4	654.8	720.7	924.8	1107.8	1210.6	1332.4	1355.1	1473.7	1404.6
80°	165.7	192.4	234.8	345.5	592.7	706.6	752.9	748.2	752.9	716.8	693.2
82.5°	33.8	32.9	40.0	62.0	261.4	411.4	444.4	378.4	376.1	362.0	373.7
85°	8.7	7.8	9.4	19.6	44.7	121.7	153.1	85.6	65.2	62.0	55.0
87.5°	2.3	2.3	2.3	3.9	4.7	6.3	8.7	6.3	4.7	4.7	4.7
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°	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9
2.5°	117.8	117.8	117.0	116.2	116.2	115.4	114.6	113.9	113.0	112.3	111.4
5°	124.8	123.3	120.9	119.3	117.8	115.4	113.9	112.3	110.7	110.0	108.4
7.5°	134.2	130.3	127.2	122.5	119.3	116.2	113.0	110.7	108.4	106.8	105.2
10°	146.0	139.7	133.5	127.2	121.7	117.0	112.3	108.4	106.0	103.6	102.0
12.5°	160.9	151.5	142.9	133.5	124.8	117.8	111.4	106.8	103.6	101.3	98.9
15°	185.3	170.3	155.4	141.3	130.3	119.3	110.7	105.2	101.3	98.9	96.6
17.5°	223.7	197.0	173.5	153.9	135.8	121.7	110.7	103.6	98.9	95.8	93.4
20°	279.5	235.5	197.9	169.6	146.0	125.6	110.7	101.3	96.6	92.7	90.3
22.5°	345.5	290.5	238.7	191.5	157.8	131.1	110.7	98.9	93.4	90.3	87.2
25°	442.0	369.0	298.3	232.4	177.4	139.7	113.0	97.4	91.1	87.2	84.0
27.5°	555.1	467.2	379.2	286.6	207.3	152.3	116.2	95.8	88.7	84.0	80.8
30°	683.8	586.5	478.9	358.8	246.5	168.8	121.7	95.0	85.6	80.8	76.9
32.5°	823.5	720.7	603.0	451.4	304.7	194.0	128.7	94.2	82.4	76.9	72.2
35°	990.1	894.2	750.6	581.8	394.9	237.1	144.5	95.8	79.3	73.0	67.5
37.5°	1172.2	1070.1	917.8	719.9	484.4	285.8	156.3	93.4	73.8	67.5	62.0
40°	1355.9	1238.9	1084.3	865.2	598.2	345.5	171.2	91.1	68.3	62.0	56.6
42.5°	1534.9	1411.6	1243.6	1014.3	718.4	416.1	190.0	91.1	64.4	56.6	51.1
45°	1722.5	1574.1	1390.4	1157.2	837.7	496.9	216.7	90.3	59.6	51.8	45.6
47.5°	1900.0	1724.1	1512.9	1282.9	965.7	585.7	247.4	91.1	55.7	47.1	41.6
50°	2068.0	1866.2	1638.5	1395.2	1088.2	681.5	285.0	91.8	51.8	43.2	37.7
52.5°	2251.7	2027.9	1773.6	1510.5	1209.0	778.1	328.9	93.4	47.9	39.3	34.5
55°	2479.4	2231.3	1940.0	1651.9	1337.0	875.4	371.4	95.0	44.0	36.1	31.4
57.5°	2807.6	2524.9	2210.1	1863.8	1506.6	986.1	415.4	98.9	40.8	33.8	29.0
60°	3341.4	3004.7	2641.1	2232.9	1760.2	1136.1	478.9	107.5	36.9	30.6	27.4
62.5°	3983.7	3578.5	3116.1	2620.7	1998.9	1237.3	521.3	117.0	33.8	28.3	26.0
65°	4307.1	3796.8	3263.7	2729.0	2029.5	1207.5	504.0	113.9	29.9	25.1	22.0
66°	4316.6	3785.0	3243.3	2705.5	1998.2	1171.4	487.5	112.3	29.0	24.4	20.4
67.5°	4227.0	3683.7	3135.0	2598.7	1905.5	1101.5	457.7	106.8	26.7	22.0	18.0
70°	3785.0	3255.8	2752.6	2257.2	1639.4	928.0	383.9	94.2	23.5	19.6	16.5
72.5°	3017.2	2586.2	2162.2	1775.9	1274.2	696.4	303.1	76.9	20.4	17.3	14.1
75°	2107.3	1753.1	1430.5	1154.9	800.8	416.9	196.3	54.1	17.3	14.1	11.8
77.5°	1176.1	932.7	705.0	537.0	319.5	130.3	65.2	27.4	14.9	11.0	9.4
80°	598.2	443.6	337.6	248.8	147.6	67.5	32.9	18.0	11.8	8.7	7.8
82.5°	347.8	255.2	203.4	160.9	101.3	51.1	26.7	13.3	7.8	6.3	7.1
85°	77.8	102.9	87.2	73.8	54.1	32.2	18.9	8.7	5.5	5.5	6.3
87.5°	6.3	8.7	7.8	10.2	11.0	10.2	7.8	4.7	3.9	4.7	4.7
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°	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9	113.9
2.5°	110.7	110.0	110.0	109.1	108.4	108.4	108.4	107.5	108.4	108.4	108.4
5°	107.5	106.8	106.0	105.2	104.5	103.6	103.6	102.9	102.9	102.9	103.6
7.5°	104.5	102.9	102.0	100.5	99.7	98.9	98.9	98.1	98.1	98.1	98.1
10°	100.5	98.9	97.4	96.6	95.8	94.2	94.2	93.4	92.7	92.7	92.7
12.5°	97.4	95.8	94.2	92.7	91.1	90.3	89.5	88.7	87.9	87.9	87.9
15°	94.2	91.8	90.3	88.7	87.2	85.6	84.8	84.0	83.3	82.4	82.4
17.5°	91.1	88.7	86.3	84.8	83.3	81.7	80.8	78.5	78.5	77.8	77.8
20°	87.2	84.8	82.4	80.8	79.3	77.8	76.2	74.6	73.0	72.2	72.2
22.5°	84.0	81.7	79.3	76.9	74.6	72.2	70.7	69.1	68.3	67.5	66.7
25°	80.8	77.8	74.6	72.2	69.9	67.5	66.0	64.4	62.8	62.0	62.0
27.5°	76.9	73.8	70.7	67.5	65.2	62.8	61.2	58.9	58.1	57.3	56.6
30°	73.0	69.1	66.0	62.8	60.5	57.3	55.7	54.1	52.6	52.6	51.8
32.5°	68.3	64.4	61.2	58.1	55.0	52.6	51.1	49.5	48.7	47.1	47.1
35°	63.6	59.6	55.7	52.6	50.2	47.9	46.3	44.7	43.2	42.4	42.4
37.5°	58.1	54.1	51.1	47.9	45.6	43.2	41.6	40.0	39.3	38.5	37.7
40°	51.8	47.9	45.6	43.2	40.8	39.3	36.9	35.3	34.5	33.8	32.9
42.5°	46.3	42.4	40.8	39.3	36.9	35.3	32.9	31.4	29.9	29.0	28.3
45°	41.6	38.5	36.9	35.3	32.9	30.6	29.0	27.4	26.0	25.1	25.1
47.5°	36.9	34.5	32.9	31.4	29.0	27.4	25.1	24.4	22.8	22.8	22.8
50°	33.8	31.4	29.9	28.3	26.7	24.4	22.8	22.0	21.2	21.2	22.0
52.5°	31.4	29.0	27.4	26.0	24.4	22.8	21.2	20.4	20.4	21.2	22.0
55°	29.0	26.7	25.1	23.5	22.0	21.2	19.6	19.6	20.4	21.2	22.0
57.5°	27.4	24.4	22.8	22.0	20.4	19.6	19.6	19.6	20.4	21.2	22.8
60°	25.1	22.0	20.4	20.4	18.9	18.9	18.9	19.6	20.4	22.0	22.8
62.5°	22.0	19.6	18.9	18.9	18.0	18.0	18.9	19.6	21.2	22.0	22.8
65°	18.9	17.3	17.3	17.3	17.3	18.0	18.9	19.6	20.4	22.0	22.8
66°	17.3	16.5	16.5	17.3	17.3	18.0	18.9	19.6	20.4	21.2	22.0
67.5°	16.5	15.7	15.7	16.5	17.3	17.3	18.0	19.6	20.4	21.2	21.2
70°	14.1	14.1	14.1	15.7	16.5	17.3	18.0	18.9	19.6	20.4	21.2
72.5°	12.6	12.6	13.3	14.1	15.7	16.5	17.3	18.0	19.6	20.4	20.4
75°	11.0	11.0	12.6	13.3	14.9	15.7	17.3	18.0	18.9	19.6	19.6
77.5°	9.4	10.2	11.8	13.3	14.1	15.7	16.5	17.3	18.0	18.9	18.9
80°	8.7	10.2	11.8	12.6	13.3	14.1	14.9	16.5	17.3	18.0	18.9
82.5°	8.7	9.4	11.0	11.8	12.6	14.1	14.9	15.7	16.5	17.3	18.0
85°	7.1	8.7	9.4	11.0	11.8	13.3	14.1	14.1	14.9	15.7	16.5
87.5°	5.5	6.3	6.3	7.8	8.7	10.2	11.8	11.8	12.6	13.3	14.1
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°	113.9	113.9	113.9	113.9
2.5°	108.4	109.1	109.1	109.1
5°	103.6	103.6	103.6	103.6
7.5°	98.1	98.1	98.1	98.1
10°	92.7	92.7	93.4	92.7
12.5°	87.9	87.2	87.2	87.2
15°	82.4	82.4	81.7	82.4
17.5°	76.9	76.9	76.2	76.2
20°	71.4	71.4	71.4	71.4
22.5°	66.7	66.0	66.0	66.0
25°	61.2	61.2	61.2	61.2
27.5°	56.6	56.6	56.6	56.6
30°	51.8	51.8	51.1	51.1
32.5°	47.1	47.1	47.1	47.1
35°	42.4	42.4	41.6	41.6
37.5°	36.9	36.9	36.9	36.9
40°	32.2	32.2	32.2	32.2
42.5°	28.3	28.3	27.4	27.4
45°	24.4	24.4	24.4	24.4
47.5°	22.8	22.8	22.8	22.8
50°	22.0	22.8	22.8	22.8
52.5°	22.8	22.8	22.8	22.8
55°	22.8	23.5	23.5	23.5
57.5°	22.8	23.5	23.5	24.4
60°	23.5	24.4	24.4	24.4
62.5°	23.5	24.4	24.4	24.4
65°	22.8	23.5	23.5	23.5
66°	22.8	22.8	22.8	23.5
67.5°	22.0	22.8	22.8	22.8
70°	21.2	22.0	22.0	22.8
72.5°	21.2	22.0	22.0	22.0
75°	20.4	20.4	21.2	21.2
77.5°	19.6	19.6	20.4	20.4
80°	18.9	19.6	19.6	19.6
82.5°	18.0	18.9	18.9	18.9
85°	16.5	17.3	17.3	17.3
87.5°	14.1	14.1	14.9	14.9
90°	0.0	0.0	0.0	0.0

(END OF REPORT)