

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: P181608

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

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P181608
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: ICS-E04-LED-E1-T4-HSS-7030
Description: ICON SITE SMALL 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: 6359.6 lumens
Efficiency: N/A
Efficacy: 65.4 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

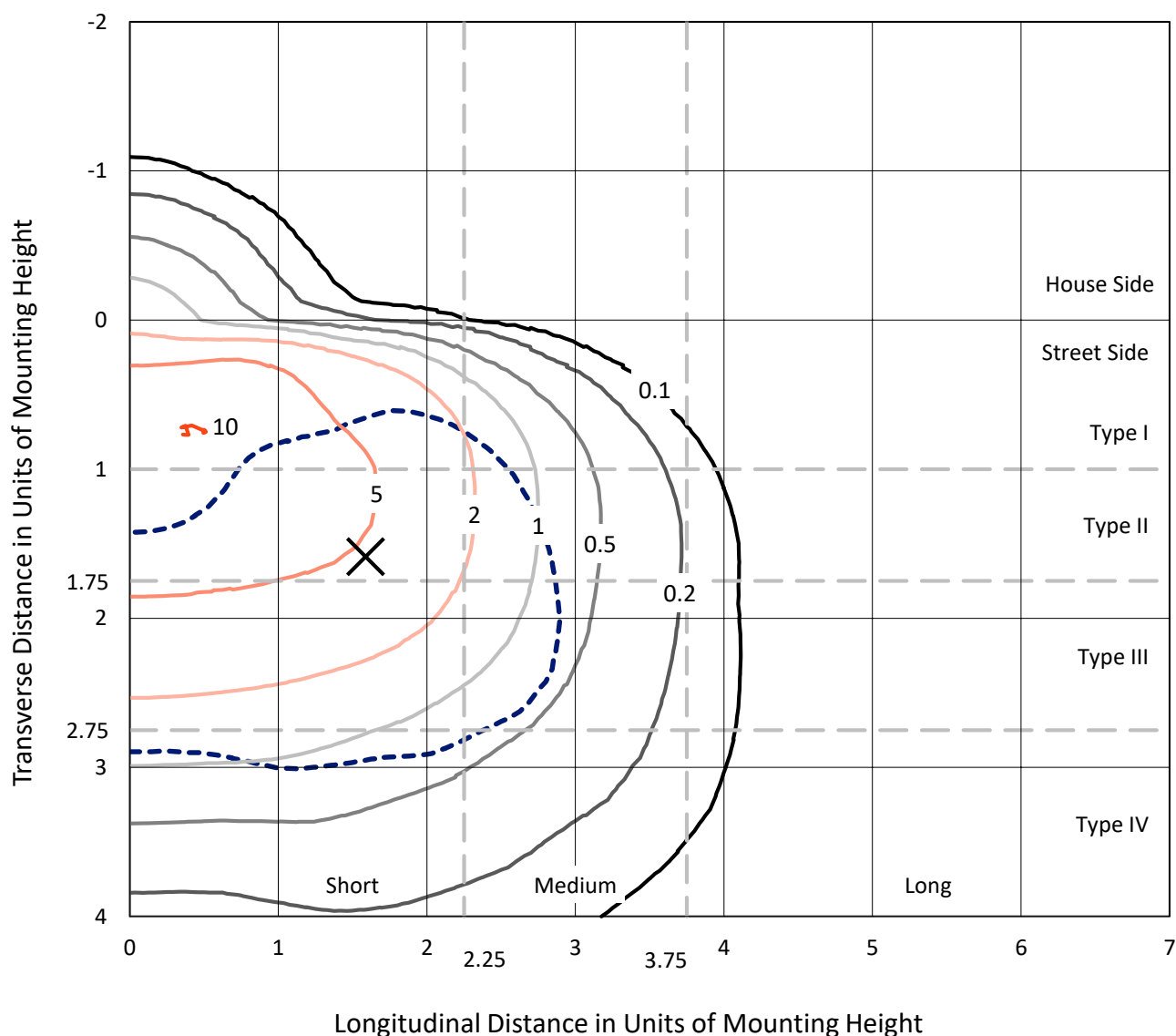


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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 --- 1/2 Max cd

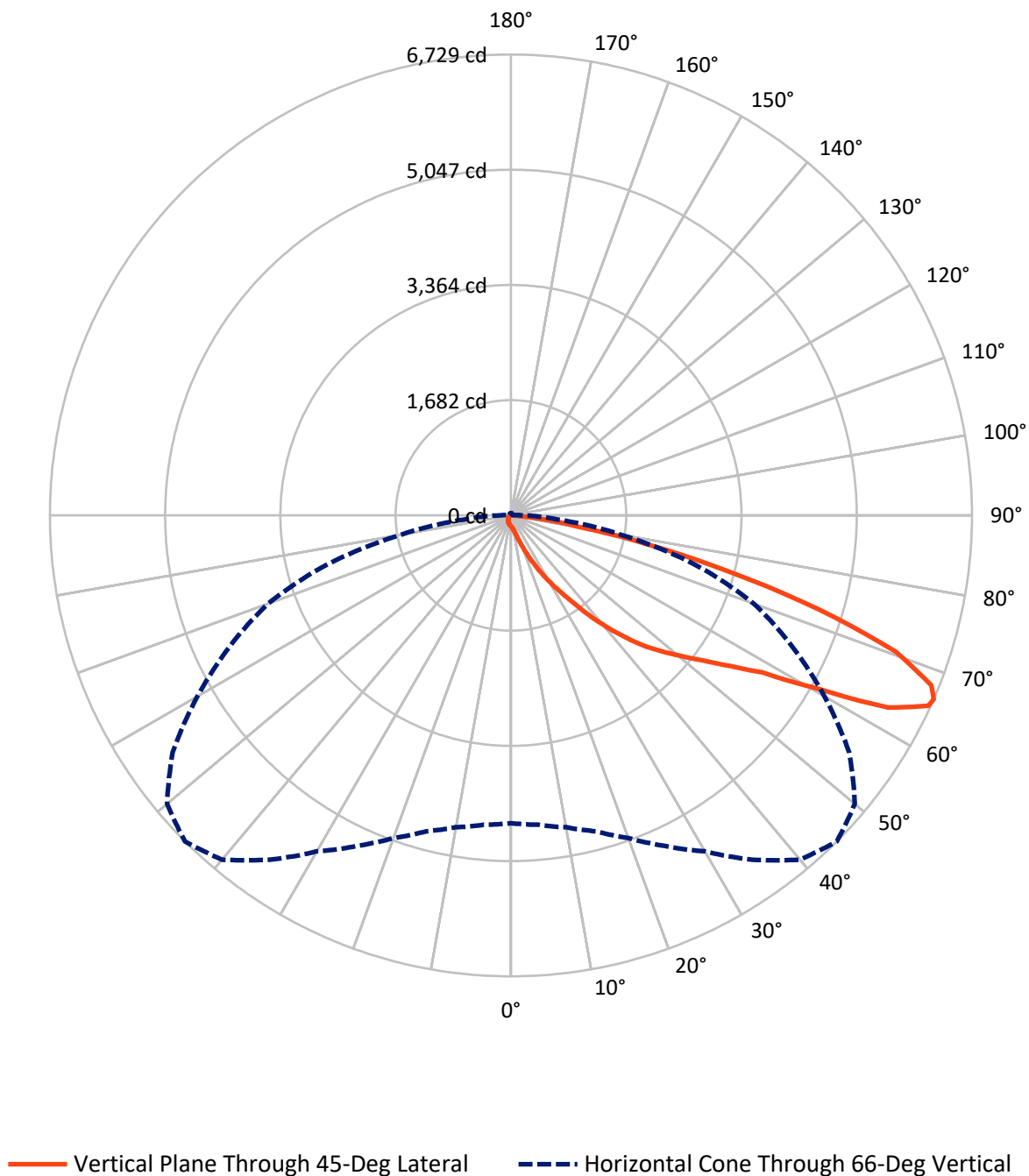


Based on 10 foot mounting height. Maximum calculated value = 10.1 fc
 Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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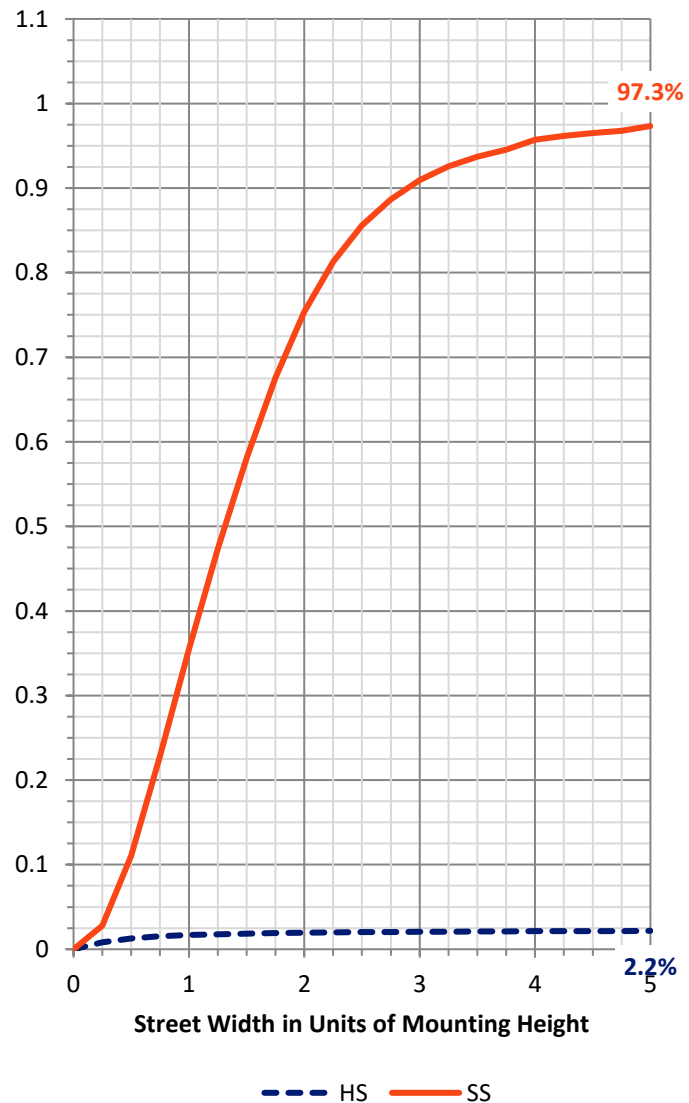
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	144.1	0.0	144.1
	% Fixture	2.3	0.0	2.3
Street Side	Lumens	6215.4	0.0	6215.4
	% Fixture	97.7	0.0	97.7
Total	Lumens	6359.6	0.0	6359.6
	% Fixture	100.0	0.0	100.0

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	16.0	0.3
10°-20°	64.9	1.0
20°-30°	190.0	3.0
30°-40°	443.8	7.0
40°-50°	833.6	13.1
50°-60°	1381.5	21.7
60°-70°	2193.1	34.5
70°-80°	1134.2	17.8
80°-90°	102.4	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°	6359.6	100.0
0°-180°	6359.6	100.0

Coefficient of Utilization



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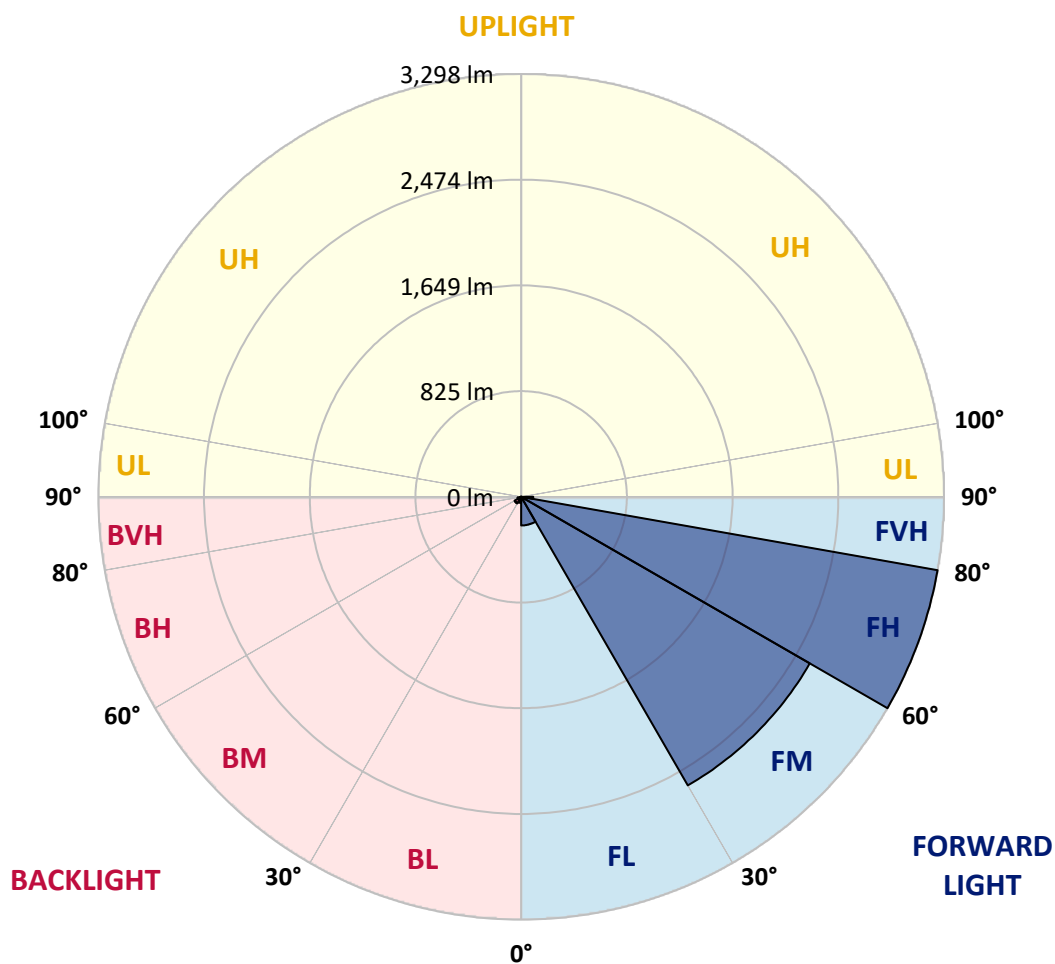
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	223.8	3.5			
FM	(30°-60°)	2599.2	40.9			
FH	(60°-80°)	3298.1	51.9			G2/5000
FVH	(80°-90°)	94.3	1.5			G1/100
BL	(0°-30°)	47.1	0.7	B0/110		
BM	(30°-60°)	59.8	0.9	B0/220		
BH	(60°-80°)	29.2	0.5	B0/110		G0/110
BVH	(80°-90°)	8.1	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°	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9
2.5°	172.1	172.1	172.1	172.1	171.0	169.9	168.8	167.7	166.6	166.6	165.5
5°	195.1	196.2	195.1	194.0	191.8	190.7	187.4	185.2	181.9	180.9	177.6
7.5°	226.9	225.8	226.9	223.6	219.2	218.1	213.7	208.3	203.9	197.3	192.9
10°	272.9	271.8	272.9	266.3	259.8	254.3	246.6	240.0	230.2	222.5	213.7
12.5°	346.4	346.4	344.2	335.4	326.6	314.6	302.5	288.3	270.7	255.4	241.1
15°	459.3	453.8	443.9	438.4	423.1	404.5	391.3	362.8	337.6	313.5	285.0
17.5°	595.2	584.2	576.5	564.5	544.8	520.6	498.7	457.1	431.9	392.4	351.8
20°	750.8	737.7	735.5	716.8	696.0	669.7	637.9	588.6	545.8	496.5	439.5
22.5°	909.7	911.9	903.2	890.0	869.2	838.5	789.2	744.2	691.6	629.1	555.7
25°	1087.3	1086.2	1078.5	1063.2	1047.9	1009.5	970.0	927.3	864.8	784.8	697.1
27.5°	1253.9	1252.8	1234.2	1235.3	1205.7	1191.4	1153.1	1107.0	1031.4	964.6	869.2
30°	1428.2	1417.2	1405.2	1396.4	1375.6	1350.4	1330.6	1275.8	1218.8	1139.9	1062.1
32.5°	1604.7	1592.6	1595.9	1584.9	1568.5	1543.3	1513.7	1468.7	1407.4	1330.6	1258.3
35°	1820.6	1815.1	1806.3	1809.6	1806.3	1787.7	1762.5	1703.3	1636.4	1563.0	1488.5
37.5°	1980.6	1975.1	1980.6	2003.6	2009.1	2021.2	2002.5	1972.9	1924.7	1844.7	1766.9
40°	2128.6	2129.7	2154.9	2183.4	2203.1	2242.6	2249.2	2237.1	2198.7	2125.3	2023.4
42.5°	2261.2	2277.7	2300.7	2347.8	2390.6	2446.5	2488.1	2494.7	2466.2	2418.0	2314.9
45°	2409.2	2423.4	2459.6	2515.5	2574.7	2643.7	2710.6	2745.7	2743.5	2709.5	2598.8
47.5°	2574.7	2593.3	2632.8	2678.8	2757.7	2835.6	2922.1	2984.6	3010.9	2963.8	2856.4
50°	2775.3	2782.9	2816.9	2876.1	2948.5	3038.3	3132.6	3223.6	3275.1	3231.2	3120.5
52.5°	3013.1	3015.3	3047.1	3101.9	3160.0	3258.6	3350.7	3476.8	3543.6	3519.5	3386.9
55°	3339.8	3333.2	3355.1	3402.2	3449.4	3544.7	3636.8	3779.3	3876.8	3879.0	3737.6
57.5°	3785.9	3770.5	3784.8	3822.0	3874.6	3963.4	4079.6	4205.7	4336.1	4327.3	4211.1
60°	4407.3	4401.9	4428.2	4490.6	4580.5	4672.6	4804.1	4974.0	5089.1	5128.6	5006.9
62.5°	4820.6	4835.9	4896.2	4992.6	5165.8	5356.5	5601.0	5860.7	6080.0	6178.6	6010.9
65°	4643.0	4668.2	4762.5	4905.0	5134.0	5420.1	5744.6	6170.9	6549.1	6699.2	6525.0
66°	4492.8	4533.4	4622.2	4773.4	5012.4	5324.8	5663.4	6134.8	6560.0	6728.8	6551.3
67.5°	4233.1	4261.6	4362.4	4530.1	4786.6	5095.7	5461.8	5959.4	6439.5	6618.1	6441.7
70°	3703.7	3714.6	3796.8	3939.3	4137.7	4454.5	4786.6	5265.6	5707.3	5958.3	5765.4
72.5°	2756.6	2772.0	2907.9	3167.7	3425.3	3605.0	3801.2	4184.8	4469.8	4704.4	4667.1
75°	1326.3	1332.8	1423.8	1803.1	2305.1	2519.9	2701.8	2998.9	3107.4	3303.6	3274.0
77.5°	840.7	854.9	914.1	1006.2	1291.2	1546.6	1690.2	1860.0	1891.8	2057.3	1960.9
80°	231.3	268.5	327.7	482.3	827.5	986.5	1051.1	1044.6	1051.1	1000.7	967.8
82.5°	47.1	46.0	55.9	86.6	365.0	574.3	620.4	528.3	525.0	505.3	521.7
85°	12.1	11.0	13.2	27.4	62.5	169.9	213.7	119.5	91.0	86.6	76.7
87.5°	3.3	3.3	3.3	5.5	6.6	8.8	12.1	8.8	6.6	6.6	6.6
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°	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9
2.5°	164.4	164.4	163.3	162.2	162.2	161.1	160.0	158.9	157.8	156.7	155.6
5°	174.3	172.1	168.8	166.6	164.4	161.1	158.9	156.7	154.5	153.5	151.3
7.5°	187.4	181.9	177.6	171.0	166.6	162.2	157.8	154.5	151.3	149.1	146.9
10°	203.9	195.1	186.3	177.6	169.9	163.3	156.7	151.3	148.0	144.7	142.5
12.5°	224.7	211.5	199.5	186.3	174.3	164.4	155.6	149.1	144.7	141.4	138.1
15°	258.7	237.8	217.0	197.3	181.9	166.6	154.5	146.9	141.4	138.1	134.8
17.5°	312.4	275.1	242.2	214.8	189.6	169.9	154.5	144.7	138.1	133.7	130.4
20°	390.2	328.8	276.2	236.8	203.9	175.4	154.5	141.4	134.8	129.3	126.0
22.5°	482.3	405.5	333.2	267.4	220.3	183.0	154.5	138.1	130.4	126.0	121.7
25°	617.1	515.2	416.5	324.4	247.7	195.1	157.8	135.9	127.1	121.7	117.3
27.5°	774.9	652.2	529.4	400.1	289.4	212.6	162.2	133.7	123.9	117.3	112.9
30°	954.7	818.8	668.6	500.9	344.2	235.7	169.9	132.6	119.5	112.9	107.4
32.5°	1149.8	1006.2	841.8	630.2	425.3	270.7	179.8	131.5	115.1	107.4	100.8
35°	1382.2	1248.4	1047.9	812.2	551.3	331.0	201.7	133.7	110.7	101.9	94.3
37.5°	1636.4	1494.0	1281.3	1005.1	676.3	399.0	218.1	130.4	103.0	94.3	86.6
40°	1892.9	1729.6	1513.7	1207.9	835.2	482.3	238.9	127.1	95.4	86.6	78.9
42.5°	2142.8	1970.8	1736.2	1416.1	1002.9	580.9	265.3	127.1	89.9	78.9	71.2
45°	2404.8	2197.6	1941.2	1615.6	1169.5	693.8	302.5	126.0	83.3	72.3	63.6
47.5°	2652.5	2407.0	2112.1	1791.0	1348.2	817.7	345.3	127.1	77.8	65.8	58.1
50°	2887.1	2605.4	2287.5	1947.7	1519.2	951.4	397.9	128.2	72.3	60.3	52.6
52.5°	3143.6	2831.2	2476.0	2108.9	1688.0	1086.2	459.3	130.4	66.9	54.8	48.2
55°	3461.4	3115.1	2708.4	2306.2	1866.6	1222.1	518.4	132.6	61.4	50.4	43.8
57.5°	3919.6	3525.0	3085.5	2602.1	2103.4	1376.7	579.8	138.1	57.0	47.1	40.6
60°	4664.9	4194.7	3687.2	3117.3	2457.4	1586.0	668.6	150.2	51.5	42.7	38.4
62.5°	5561.5	4995.9	4350.3	3658.7	2790.6	1727.4	727.8	163.3	47.1	39.5	36.2
65°	6013.1	5300.6	4556.4	3810.0	2833.4	1685.8	703.7	158.9	41.7	35.1	30.7
66°	6026.2	5284.2	4527.9	3777.1	2789.5	1635.4	680.7	156.7	40.6	34.0	28.5
67.5°	5901.3	5142.8	4376.6	3628.0	2660.2	1537.8	639.0	149.1	37.3	30.7	25.2
70°	5284.2	4545.4	3842.9	3151.2	2288.6	1295.6	536.0	131.5	32.9	27.4	23.0
72.5°	4212.2	3610.5	3018.6	2479.3	1778.9	972.2	423.1	107.4	28.5	24.1	19.7
75°	2941.9	2447.5	1997.1	1612.3	1118.0	582.0	274.0	75.6	24.1	19.7	16.4
77.5°	1641.9	1302.1	984.3	749.7	446.1	181.9	91.0	38.4	20.8	15.3	13.2
80°	835.2	619.3	471.3	347.5	206.1	94.3	46.0	25.2	16.4	12.1	11.0
82.5°	485.6	356.2	283.9	224.7	141.4	71.2	37.3	18.6	11.0	8.8	9.9
85°	108.5	143.6	121.7	103.0	75.6	44.9	26.3	12.1	7.7	7.7	8.8
87.5°	8.8	12.1	11.0	14.2	15.3	14.2	11.0	6.6	5.5	6.6	6.6
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°	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9	158.9
2.5°	154.5	153.5	153.5	152.4	151.3	151.3	151.3	150.2	151.3	151.3	151.3
5°	150.2	149.1	148.0	146.9	145.8	144.7	144.7	143.6	143.6	143.6	144.7
7.5°	145.8	143.6	142.5	140.3	139.2	138.1	138.1	137.0	137.0	137.0	137.0
10°	140.3	138.1	135.9	134.8	133.7	131.5	131.5	130.4	129.3	129.3	129.3
12.5°	135.9	133.7	131.5	129.3	127.1	126.0	125.0	123.9	122.8	122.8	122.8
15°	131.5	128.2	126.0	123.9	121.7	119.5	118.4	117.3	116.2	115.1	115.1
17.5°	127.1	123.9	120.6	118.4	116.2	114.0	112.9	109.6	109.6	108.5	108.5
20°	121.7	118.4	115.1	112.9	110.7	108.5	106.3	104.1	101.9	100.8	100.8
22.5°	117.3	114.0	110.7	107.4	104.1	100.8	98.6	96.5	95.4	94.3	93.2
25°	112.9	108.5	104.1	100.8	97.6	94.3	92.1	89.9	87.7	86.6	86.6
27.5°	107.4	103.0	98.6	94.3	91.0	87.7	85.5	82.2	81.1	80.0	78.9
30°	101.9	96.5	92.1	87.7	84.4	80.0	77.8	75.6	73.4	73.4	72.3
32.5°	95.4	89.9	85.5	81.1	76.7	73.4	71.2	69.1	68.0	65.8	65.8
35°	88.8	83.3	77.8	73.4	70.1	66.9	64.7	62.5	60.3	59.2	59.2
37.5°	81.1	75.6	71.2	66.9	63.6	60.3	58.1	55.9	54.8	53.7	52.6
40°	72.3	66.9	63.6	60.3	57.0	54.8	51.5	49.3	48.2	47.1	46.0
42.5°	64.7	59.2	57.0	54.8	51.5	49.3	46.0	43.8	41.7	40.6	39.5
45°	58.1	53.7	51.5	49.3	46.0	42.7	40.6	38.4	36.2	35.1	35.1
47.5°	51.5	48.2	46.0	43.8	40.6	38.4	35.1	34.0	31.8	31.8	31.8
50°	47.1	43.8	41.7	39.5	37.3	34.0	31.8	30.7	29.6	29.6	30.7
52.5°	43.8	40.6	38.4	36.2	34.0	31.8	29.6	28.5	28.5	29.6	30.7
55°	40.6	37.3	35.1	32.9	30.7	29.6	27.4	27.4	28.5	29.6	30.7
57.5°	38.4	34.0	31.8	30.7	28.5	27.4	27.4	27.4	28.5	29.6	31.8
60°	35.1	30.7	28.5	28.5	26.3	26.3	26.3	27.4	28.5	30.7	31.8
62.5°	30.7	27.4	26.3	26.3	25.2	25.2	26.3	27.4	29.6	30.7	31.8
65°	26.3	24.1	24.1	24.1	24.1	25.2	26.3	27.4	28.5	30.7	31.8
66°	24.1	23.0	23.0	24.1	24.1	25.2	26.3	27.4	28.5	29.6	30.7
67.5°	23.0	21.9	21.9	23.0	24.1	24.1	25.2	27.4	28.5	29.6	29.6
70°	19.7	19.7	19.7	21.9	23.0	24.1	25.2	26.3	27.4	28.5	29.6
72.5°	17.5	17.5	18.6	19.7	21.9	23.0	24.1	25.2	27.4	28.5	28.5
75°	15.3	15.3	17.5	18.6	20.8	21.9	24.1	25.2	26.3	27.4	27.4
77.5°	13.2	14.2	16.4	18.6	19.7	21.9	23.0	24.1	25.2	26.3	26.3
80°	12.1	14.2	16.4	17.5	18.6	19.7	20.8	23.0	24.1	25.2	26.3
82.5°	12.1	13.2	15.3	16.4	17.5	19.7	20.8	21.9	23.0	24.1	25.2
85°	9.9	12.1	13.2	15.3	16.4	18.6	19.7	19.7	20.8	21.9	23.0
87.5°	7.7	8.8	8.8	11.0	12.1	14.2	16.4	16.4	17.5	18.6	19.7
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):

	165°	170°	175°	180°
0°	158.9	158.9	158.9	158.9
2.5°	151.3	152.4	152.4	152.4
5°	144.7	144.7	144.7	144.7
7.5°	137.0	137.0	137.0	137.0
10°	129.3	129.3	130.4	129.3
12.5°	122.8	121.7	121.7	121.7
15°	115.1	115.1	114.0	115.1
17.5°	107.4	107.4	106.3	106.3
20°	99.7	99.7	99.7	99.7
22.5°	93.2	92.1	92.1	92.1
25°	85.5	85.5	85.5	85.5
27.5°	78.9	78.9	78.9	78.9
30°	72.3	72.3	71.2	71.2
32.5°	65.8	65.8	65.8	65.8
35°	59.2	59.2	58.1	58.1
37.5°	51.5	51.5	51.5	51.5
40°	44.9	44.9	44.9	44.9
42.5°	39.5	39.5	38.4	38.4
45°	34.0	34.0	34.0	34.0
47.5°	31.8	31.8	31.8	31.8
50°	30.7	31.8	31.8	31.8
52.5°	31.8	31.8	31.8	31.8
55°	31.8	32.9	32.9	32.9
57.5°	31.8	32.9	32.9	34.0
60°	32.9	34.0	34.0	34.0
62.5°	32.9	34.0	34.0	34.0
65°	31.8	32.9	32.9	32.9
66°	31.8	31.8	31.8	32.9
67.5°	30.7	31.8	31.8	31.8
70°	29.6	30.7	30.7	31.8
72.5°	29.6	30.7	30.7	30.7
75°	28.5	28.5	29.6	29.6
77.5°	27.4	27.4	28.5	28.5
80°	26.3	27.4	27.4	27.4
82.5°	25.2	26.3	26.3	26.3
85°	23.0	24.1	24.1	24.1
87.5°	19.7	19.7	20.8	20.8
90°	0.0	0.0	0.0	0.0

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