

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: P677436

Luminaire Tested: **CCW-SA-2E-740-U-SLR-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677436
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-740-U-SLR-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @1050mA w/
SLR distribution lens and House Side Shield
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

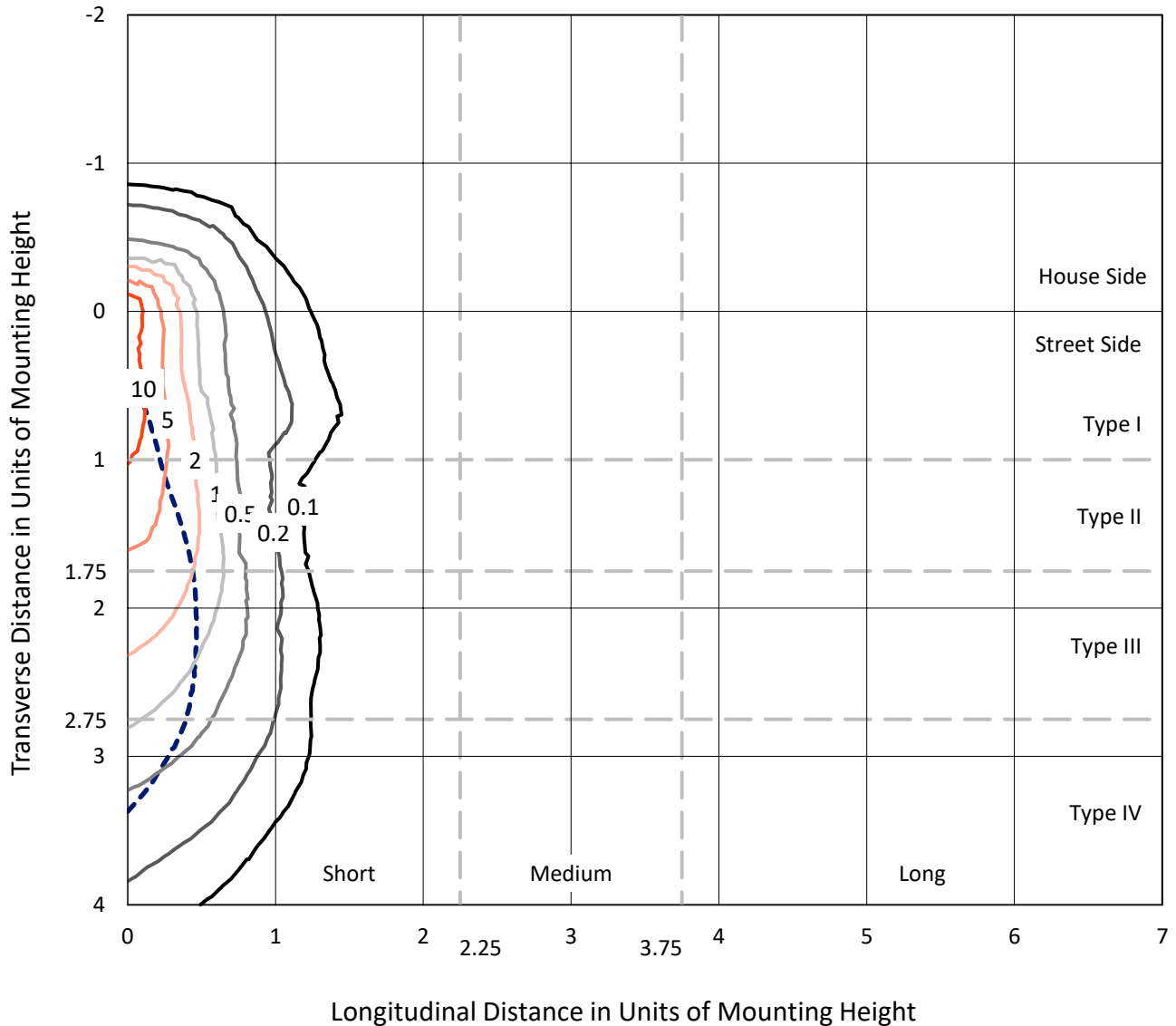
Lumens per Lamp: N/A
Luminaire Lumens: 9825.9 lumens
Efficiency: N/A
Efficacy: 92.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B1 - U0 - G2

Input Watts (W): 106.6
Input Voltage (V): 120
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

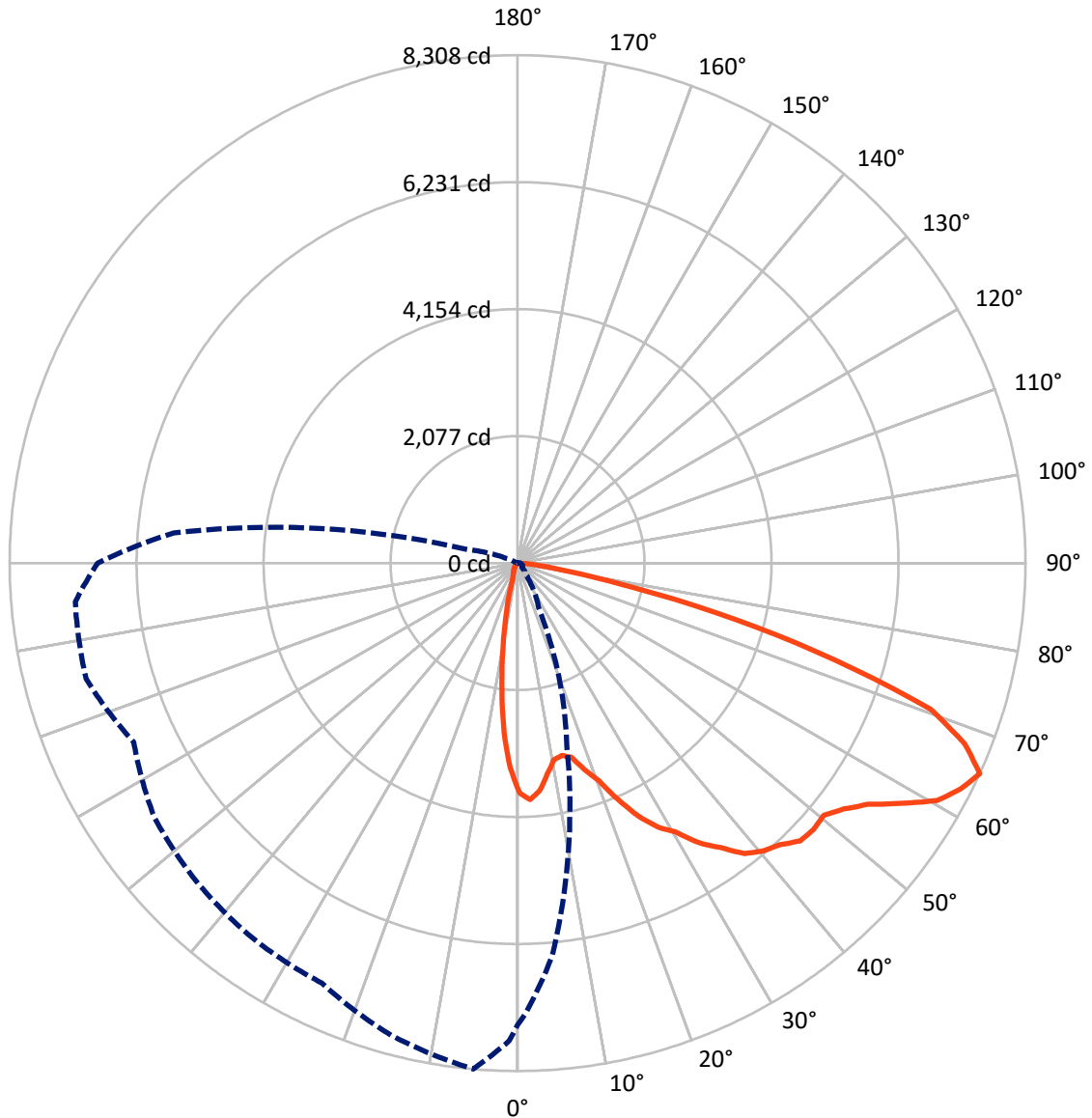
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 16.7 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 355-Deg Lateral - - - Horizontal Cone Through 65-Deg Vertical

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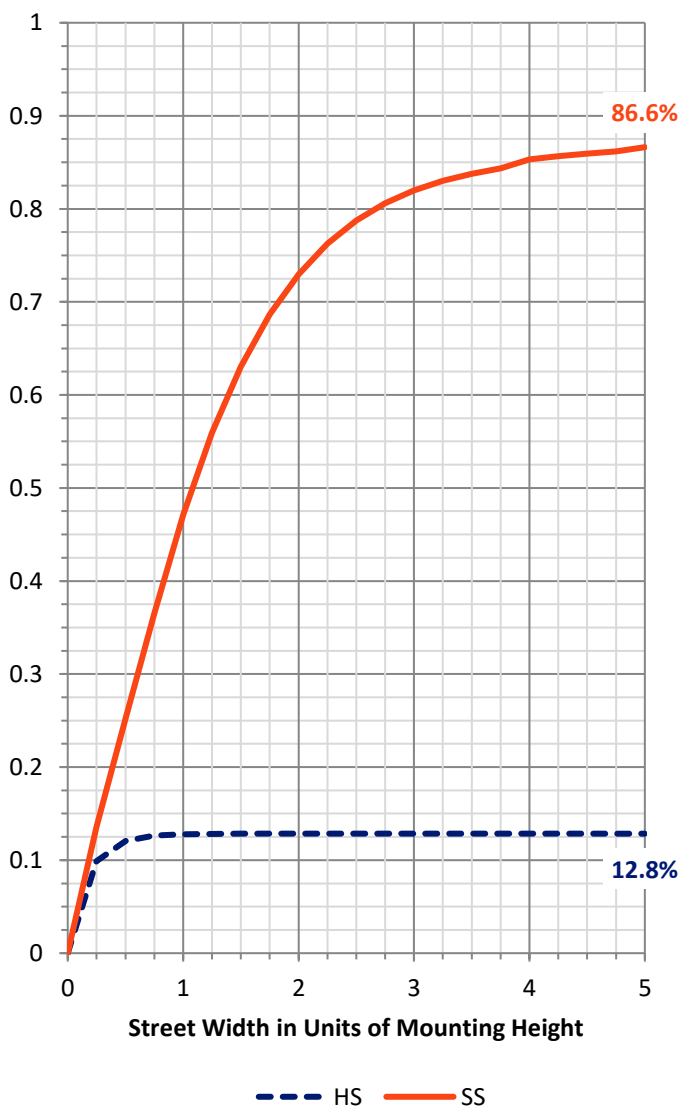
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1275.8	0.0	1275.8
	% Fixture	13.0	0.0	13.0
Street Side	Lumens	8550.1	0.0	8550.1
	% Fixture	87.0	0.0	87.0
Total	Lumens	9825.9	0.0	9825.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	284.6	2.9
10°-20°	551.0	5.6
20°-30°	767.4	7.8
30°-40°	1090.4	11.1
40°-50°	1512.1	15.4
50°-60°	2060.3	21.0
60°-70°	2265.1	23.1
70°-80°	1113.3	11.3
80°-90°	181.8	1.9
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°	9825.9	100.0
0°-180°	9825.9	100.0



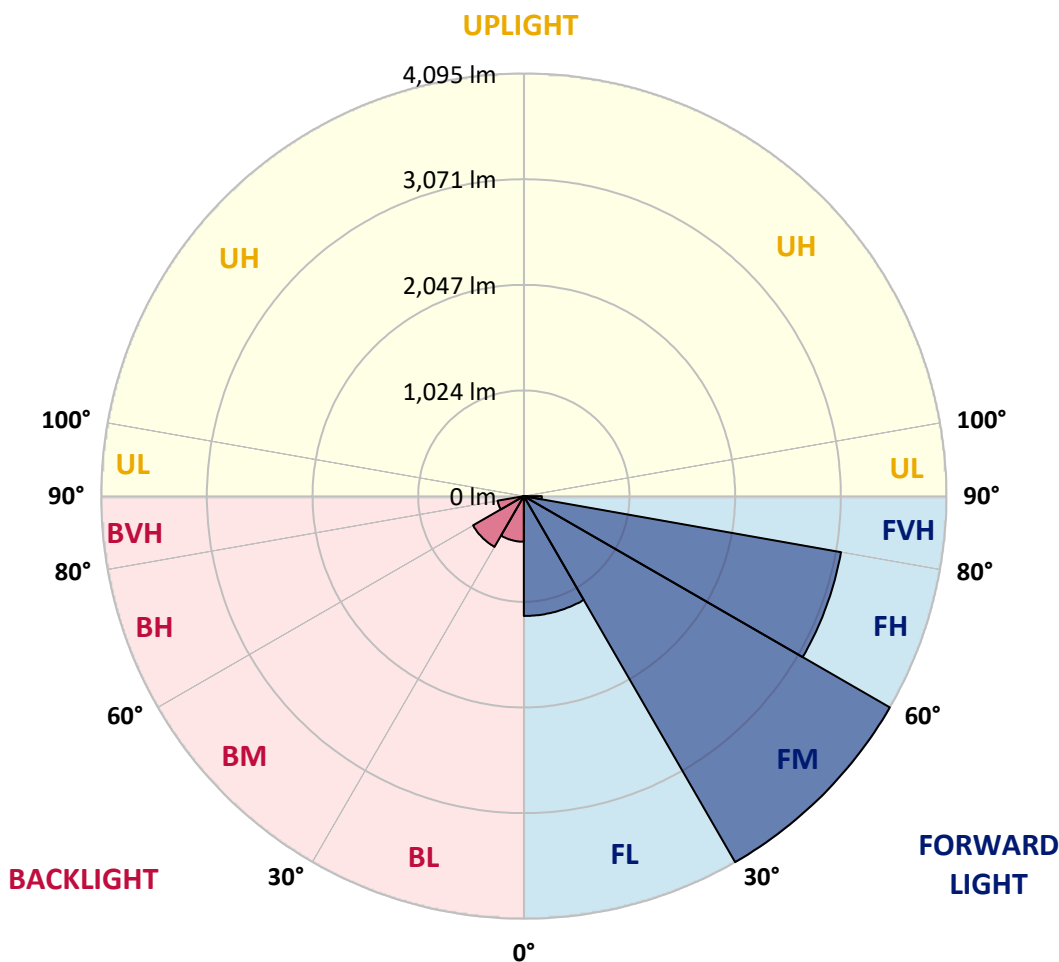
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1161.2	11.8			
FM (30°-60°)	4094.7	41.7			
FH (60°-80°)	3120.6	31.8			G2/5000
FVH (80°-90°)	173.6	1.8			G2/225
BL (0°-30°)	441.7	4.5	B1/500		
BM (30°-60°)	568.0	5.8	B1/1000		
BH (60°-80°)	257.8	2.6	B1/500		G1/500
BVH (80°-90°)	8.2	0.1			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2

Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4
2.5°	3833.3	3878.3	3835.9	3687.6	3661.1	3589.5	3480.9	3473.0	3359.1	3372.3	3311.4
5°	3602.8	3647.8	3557.7	3361.7	3178.9	3033.2	2945.8	2789.5	2755.1	2678.2	2678.2
7.5°	3367.0	3364.4	3210.7	3046.5	2773.6	2506.1	2384.2	2159.0	2026.6	1955.0	1886.2
10°	3171.0	3128.6	3033.2	2694.1	2397.4	2119.3	1968.3	1819.9	1682.2	1563.0	1443.8
12.5°	3033.2	3059.7	2908.7	2540.5	2156.4	1963.0	1801.4	1645.1	1480.9	1345.7	1213.3
15°	3104.8	3062.4	2884.9	2506.1	2116.6	1851.7	1637.1	1446.4	1263.6	1086.1	985.5
17.5°	3327.3	3218.7	3009.4	2506.1	2034.5	1682.2	1422.6	1197.4	1001.4	842.4	717.9
20°	3626.6	3502.1	3276.9	2598.8	1973.6	1557.7	1202.7	919.2	715.3	566.9	471.5
22.5°	3933.9	3835.9	3496.8	2635.9	1902.1	1390.8	948.4	664.9	476.8	381.5	333.8
25°	4302.1	4164.4	3793.5	2784.2	1796.1	1229.2	747.0	463.6	355.0	304.6	275.5
27.5°	4596.2	4572.4	4071.7	2874.3	1716.6	1096.7	590.8	368.2	294.1	257.0	238.4
30°	4967.1	4837.3	4410.8	3054.4	1626.6	945.7	492.7	331.1	270.2	230.5	217.2
32.5°	5189.6	5128.7	4588.3	3155.1	1525.9	821.2	423.9	291.4	246.4	217.2	204.0
35°	5512.8	5390.9	4842.6	3218.7	1472.9	749.7	381.5	264.9	206.6	177.5	161.6
37.5°	5873.1	5828.0	5147.2	3216.0	1396.1	707.3	352.3	246.4	196.0	164.2	145.7
40°	6241.3	6058.5	5332.7	3290.2	1356.3	675.5	331.1	235.8	185.4	156.3	132.5
42.5°	6516.8	6307.5	5547.2	3263.7	1308.7	619.9	323.2	219.9	177.5	143.1	121.9
45°	6591.0	6516.8	5740.6	3255.8	1274.2	574.9	309.9	217.2	172.2	135.1	113.9
47.5°	6734.0	6683.7	5979.0	3269.0	1247.7	540.4	278.2	222.5	164.2	127.2	108.6
50°	6797.6	6707.5	6172.4	3300.8	1186.8	498.0	249.0	233.1	161.6	124.5	103.3
52.5°	7059.9	6980.4	6437.3	3390.9	1136.5	442.4	219.9	222.5	166.9	116.6	98.0
55°	7316.8	7226.8	6845.3	3597.5	1064.9	397.4	188.1	196.0	158.9	106.0	87.4
57.5°	7669.2	7520.8	7118.1	3682.3	1001.4	336.4	166.9	161.6	148.3	95.4	76.8
60°	7722.1	7783.1	7078.4	3629.3	935.1	296.7	145.7	124.5	158.9	84.8	66.2
62.5°	7899.6	7645.3	6893.0	3507.4	887.5	272.9	129.8	103.3	137.8	74.2	55.6
65°	7557.9	7369.8	6458.5	3115.3	826.5	275.5	113.9	84.8	87.4	60.9	45.0
67.5°	7057.2	6908.9	5738.0	2688.8	765.6	270.2	100.7	74.2	66.2	53.0	39.7
70°	6193.6	5873.1	4874.4	2182.9	675.5	251.7	84.8	66.2	55.6	42.4	29.1
72.5°	4506.1	4376.3	3496.8	1687.5	606.6	227.8	79.5	55.6	47.7	31.8	23.8
75°	3033.2	2818.6	2206.7	1107.3	487.4	198.7	66.2	50.3	37.1	23.8	18.5
77.5°	1602.7	1515.3	1250.4	527.2	270.2	92.7	37.1	29.1	21.2	18.5	10.6
80°	694.1	617.2	540.4	214.6	95.4	42.4	23.8	15.9	13.2	10.6	5.3
82.5°	355.0	339.1	280.8	92.7	55.6	31.8	13.2	10.6	7.9	5.3	2.6
85°	174.8	180.1	148.3	29.1	31.8	18.5	2.6	2.6	0.0	0.0	0.0
87.5°	13.2	13.2	10.6	5.3	7.9	2.6	0.0	0.0	0.0	0.0	0.0
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4
2.5°	3287.5	3324.6	3261.0	3300.8	3282.2	3290.2	3298.1	3276.9	3282.2	3356.4	3359.1
5°	2633.2	2704.7	2678.2	2715.3	2778.9	2747.1	2776.3	2771.0	2776.3	2786.9	2834.5
7.5°	1878.2	1857.0	1907.4	2005.4	2119.3	2188.2	2153.7	2135.2	2124.6	2098.1	2129.9
10°	1417.3	1406.7	1393.4	1422.6	1496.7	1573.6	1616.0	1544.4	1504.7	1454.4	1435.8
12.5°	1176.2	1110.0	1072.9	1027.9	1049.0	1117.9	1120.6	1051.7	988.1	961.6	990.8
15°	927.2	882.2	815.9	752.3	720.6	773.5	728.5	662.3	580.2	569.6	566.9
17.5°	662.3	635.8	588.1	561.6	524.5	511.3	463.6	362.9	304.6	288.8	294.1
20°	450.3	429.2	426.5	402.7	386.8	376.2	299.3	233.1	214.6	217.2	219.9
22.5°	333.8	323.2	309.9	307.3	294.1	280.8	219.9	196.0	182.8	182.8	190.7
25°	272.9	267.6	254.3	249.0	243.7	225.2	185.4	166.9	161.6	156.3	164.2
27.5°	233.1	230.5	222.5	214.6	209.3	190.7	161.6	145.7	140.4	140.4	140.4
30°	209.3	209.3	198.7	182.8	182.8	161.6	137.8	127.2	121.9	121.9	119.2
32.5°	196.0	190.7	177.5	166.9	158.9	137.8	121.9	111.3	103.3	103.3	106.0
35°	158.9	158.9	156.3	148.3	137.8	116.6	103.3	92.7	87.4	84.8	87.4
37.5°	140.4	132.5	121.9	124.5	119.2	100.7	87.4	79.5	71.5	71.5	71.5
40°	127.2	119.2	108.6	100.7	98.0	90.1	76.8	63.6	55.6	53.0	53.0
42.5°	113.9	108.6	92.7	79.5	76.8	76.8	58.3	47.7	39.7	39.7	39.7
45°	106.0	98.0	84.8	68.9	55.6	58.3	47.7	34.4	29.1	26.5	26.5
47.5°	100.7	92.7	74.2	58.3	42.4	42.4	34.4	23.8	18.5	15.9	15.9
50°	92.7	84.8	66.2	47.7	31.8	26.5	21.2	13.2	7.9	5.3	5.3
52.5°	87.4	79.5	58.3	39.7	26.5	18.5	13.2	2.6	0.0	0.0	0.0
55°	79.5	68.9	50.3	31.8	21.2	10.6	2.6	0.0	0.0	0.0	0.0
57.5°	68.9	60.9	39.7	23.8	13.2	2.6	0.0	0.0	0.0	0.0	0.0
60°	58.3	50.3	31.8	18.5	5.3	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	47.7	42.4	23.8	10.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	39.7	31.8	18.5	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	34.4	26.5	13.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	26.5	18.5	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	18.5	13.2	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	13.2	7.9	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	7.9	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	2.6	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4
2.5°	3369.7	3449.1	3523.3	3544.5	3602.8	3764.4	3764.4	3841.2	3979.0	4029.3	4039.9
5°	2842.5	2927.3	2943.2	3107.4	3184.2	3348.5	3457.1	3716.7	3873.0	3971.0	4031.9
7.5°	2161.7	2190.8	2251.7	2405.4	2556.4	2755.1	2961.7	3292.8	3568.3	3679.6	3886.2
10°	1486.1	1573.6	1706.0	1843.8	2079.5	2299.4	2567.0	2879.6	3218.7	3356.4	3533.9
12.5°	1001.4	1123.2	1335.1	1531.2	1748.4	1970.9	2225.2	2643.8	3027.9	3218.7	3396.2
15°	585.5	733.8	916.6	1234.5	1523.2	1772.3	2026.6	2450.4	2916.7	3163.0	3380.3
17.5°	296.7	341.7	492.7	768.2	1149.7	1557.7	1936.5	2476.9	3001.4	3303.4	3483.6
20°	222.5	235.8	278.2	408.0	786.8	1287.5	1851.7	2516.7	3237.2	3605.4	3703.5
22.5°	193.4	204.0	222.5	264.9	442.4	985.5	1732.5	2614.7	3557.7	3904.8	4111.4
25°	164.2	174.8	190.7	217.2	283.5	670.2	1586.8	2718.0	3843.9	4281.0	4474.3
27.5°	143.1	151.0	166.9	188.1	230.5	426.5	1335.1	2855.7	4281.0	4736.6	4786.9
30°	121.9	129.8	143.1	166.9	196.0	302.0	980.2	2874.3	4522.0	4935.3	5075.7
32.5°	106.0	108.6	124.5	145.7	164.2	238.4	688.8	2892.8	4699.5	5192.2	5221.4
35°	87.4	92.7	108.6	121.9	143.1	188.1	521.9	2800.1	4930.0	5457.2	5449.2
37.5°	71.5	79.5	90.1	100.7	116.6	158.9	415.9	2627.9	5218.7	5867.8	5618.8
40°	55.6	63.6	74.2	87.4	98.0	143.1	312.6	2368.3	5520.7	6069.1	5804.2
42.5°	39.7	45.0	55.6	68.9	87.4	119.2	225.2	2061.0	5639.9	6304.9	6026.7
45°	29.1	34.4	42.4	58.3	90.1	95.4	156.3	1780.2	5767.1	6408.2	5976.4
47.5°	15.9	21.2	31.8	50.3	79.5	71.5	111.3	1528.5	5912.8	6500.9	6016.1
50°	5.3	7.9	18.5	53.0	63.6	55.6	87.4	1393.4	6055.9	6519.5	6095.6
52.5°	0.0	0.0	10.6	55.6	47.7	42.4	76.8	1340.4	6018.8	6577.7	6045.3
55°	0.0	0.0	2.6	23.8	26.5	31.8	63.6	1337.8	6281.0	6596.3	6320.8
57.5°	0.0	0.0	0.0	7.9	15.9	26.5	55.6	1253.0	6447.9	7057.2	6691.6
60°	0.0	0.0	0.0	2.6	10.6	18.5	42.4	1178.9	6617.5	7263.8	7089.0
62.5°	0.0	0.0	0.0	0.0	2.6	7.9	29.1	1064.9	6275.7	7248.0	7473.1
65°	0.0	0.0	0.0	0.0	0.0	0.0	18.5	842.4	5645.2	6869.1	7261.2
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	10.6	582.8	4943.2	6392.3	6871.8
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	352.3	3989.6	5605.5	5828.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	151.0	2847.8	4450.5	4781.6
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	60.9	1761.7	3253.1	3661.1
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	23.8	1141.8	2463.7	2778.9
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	5.3	609.3	1544.4	1796.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	264.9	937.8	1080.8
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	84.8	569.6	649.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	87.4	116.6
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):

	285°	295°	305°	315°	325°	335°	345°	355°	359°	360°
0°	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4	3756.4
2.5°	4045.2	4122.0	4151.1	4106.1	4111.4	4018.7	4005.4	3875.6	3822.7	3833.3
5°	4230.6	4341.9	4402.8	4352.5	4238.6	4061.1	3899.5	3745.8	3650.5	3602.8
7.5°	4188.2	4312.7	4389.6	4437.3	4307.4	4021.3	3775.0	3486.2	3364.4	3367.0
10°	3955.1	4214.7	4371.0	4310.1	4249.2	3963.1	3581.6	3269.0	3160.4	3171.0
12.5°	3767.0	4055.8	4148.5	4196.2	4071.7	3843.9	3586.9	3229.3	3107.4	3033.2
15°	3650.5	3865.0	3870.3	3944.5	3894.2	3894.2	3642.5	3292.8	3186.9	3104.8
17.5°	3650.5	3698.2	3692.9	3719.3	3804.1	3904.8	3782.9	3549.8	3340.5	3327.3
20°	3732.6	3584.2	3549.8	3560.4	3631.9	3931.3	4092.9	3801.5	3669.0	3626.6
22.5°	3923.3	3597.5	3388.2	3351.1	3571.0	3928.6	4291.6	4198.8	3968.4	3933.9
25°	4185.6	3573.6	3345.8	3298.1	3465.0	4024.0	4564.4	4583.0	4373.7	4302.1
27.5°	4434.6	3679.6	3340.5	3329.9	3549.8	4002.8	4752.5	4890.3	4654.5	4596.2
30°	4519.4	3785.6	3438.5	3298.1	3581.6	4079.6	4747.2	5107.5	4953.8	4967.1
32.5°	4620.0	3891.5	3449.1	3393.5	3716.7	4204.1	4898.2	5457.2	5345.9	5189.6
35°	4768.4	4034.6	3549.8	3499.5	3812.1	4315.4	4930.0	5714.1	5695.6	5512.8
37.5°	4895.5	4175.0	3759.1	3767.0	4103.5	4495.5	5070.4	6029.4	5997.6	5873.1
40°	4985.6	4371.0	4084.9	4106.1	4357.8	4696.9	5319.4	6188.3	6424.1	6241.3
42.5°	4998.9	4545.9	4458.4	4628.0	4863.8	5009.5	5420.1	6296.9	6636.0	6516.8
45°	5049.2	4824.0	5067.7	5192.2	5385.6	5285.0	5414.8	6482.4	6651.9	6591.0
47.5°	5245.2	5330.0	5637.3	6016.1	6085.0	5753.9	5541.9	6511.5	6742.0	6734.0
50°	5449.2	5873.1	6304.9	6556.5	6644.0	6077.1	5661.1	6487.7	6861.2	6797.6
52.5°	5677.0	6344.6	6967.1	7277.1	7229.4	6434.7	5796.2	6681.0	7081.1	7059.9
55°	5820.1	6556.5	7393.7	7825.5	7788.4	6834.7	6225.4	6959.2	7369.8	7316.8
57.5°	6198.9	6900.9	7817.5	8018.8	8116.9	7359.2	6524.7	7414.8	7610.9	7669.2
60°	6511.5	7126.1	7928.8	8220.2	8254.6	7671.8	7049.3	7883.7	7918.2	7722.1
62.5°	6969.8	7213.5	7693.0	7955.3	8132.8	7849.3	7520.8	8135.4	7912.9	7899.6
65°	7306.2	6927.4	7253.3	7399.0	7512.9	7579.1	7995.0	8307.6	7814.9	7557.9
67.5°	7118.1	6387.0	6326.1	6334.0	6368.5	6768.5	7836.1	7886.4	7269.1	7057.2
70°	6265.1	5239.9	5157.8	5221.4	5049.2	5531.3	7192.3	7168.5	6413.5	6193.6
72.5°	5067.7	3820.0	3679.6	3767.0	3806.8	4318.0	6050.6	5436.0	4678.3	4506.1
75°	4026.6	2800.1	2363.0	2574.9	2710.0	3144.5	4726.0	3692.9	3266.3	3033.2
77.5°	3163.0	2119.3	1838.5	1753.7	1878.2	2286.2	3438.5	1939.1	1711.3	1602.7
80°	2005.4	1557.7	1690.1	1568.3	1621.3	1631.8	1790.8	882.2	702.0	694.1
82.5°	1208.0	1064.9	1266.3	696.7	1268.9	1133.8	744.4	400.0	355.0	355.0
85°	855.7	659.6	437.1	283.5	564.3	622.5	288.8	206.6	180.1	174.8
87.5°	429.2	204.0	98.0	63.6	71.5	116.6	34.4	15.9	15.9	13.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

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