

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: P675819

Luminaire Tested: **CCW-SA-2E-727-U-SLL**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P675819
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2E-727-U-SLL
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @1050mA w/
SLL distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

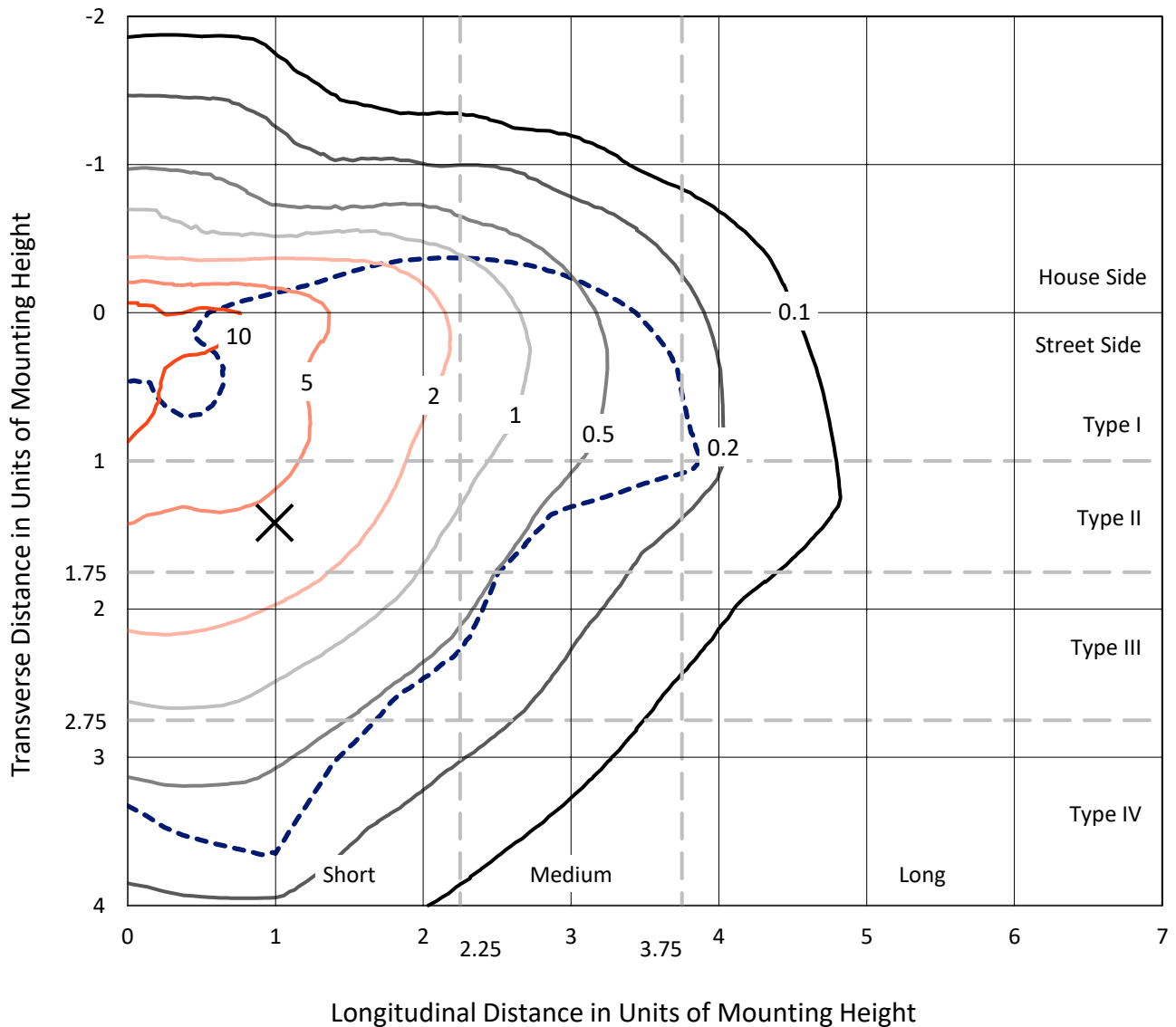
Lumens per Lamp: N/A
Luminaire Lumens: 9487.7 lumens
Efficiency: N/A
Efficacy: 89.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type IV - Short
BUG Rating: B2 - U0 - G3

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

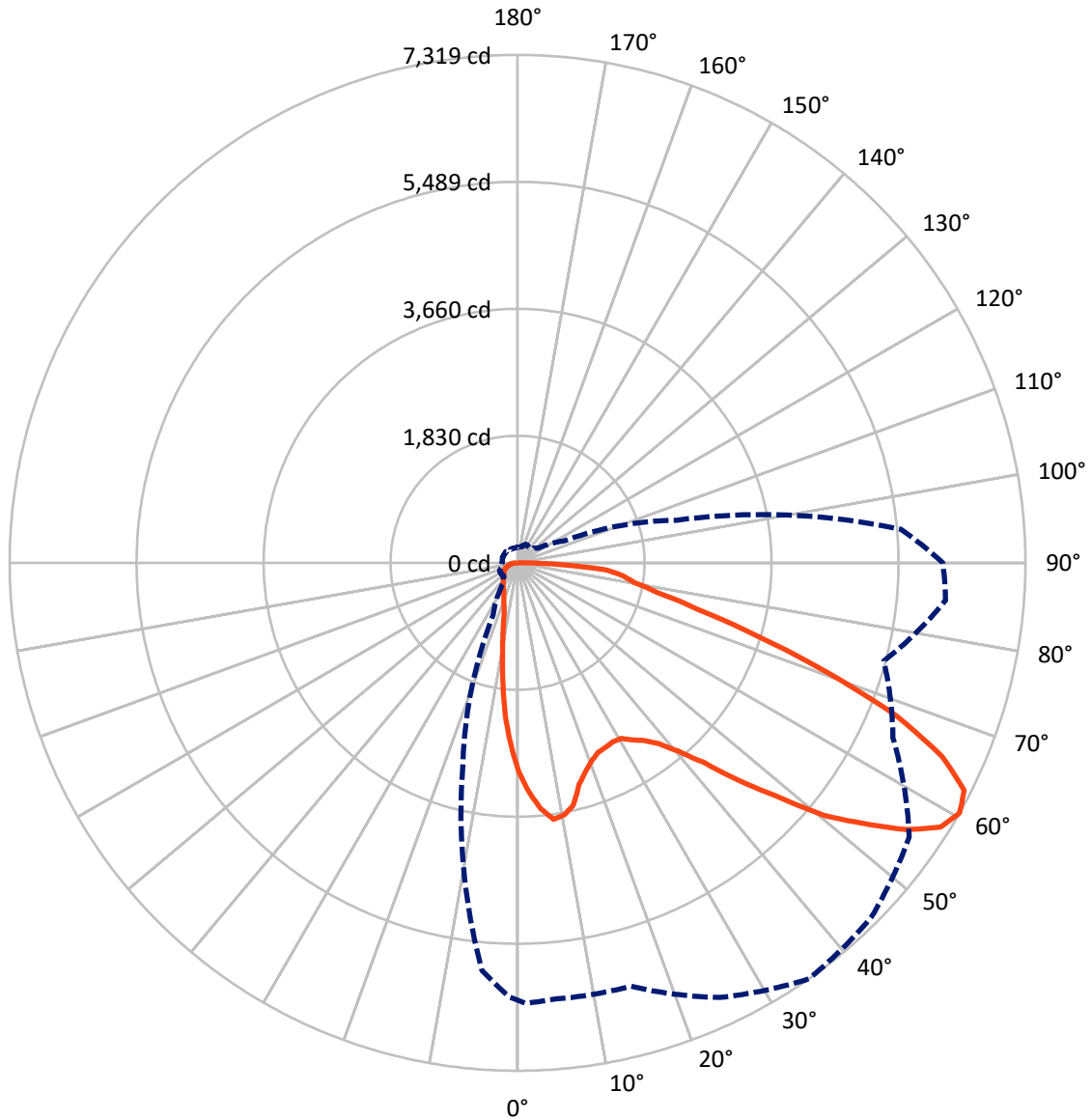
✕ Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15.4 fc
 Type IV - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 35-Deg Lateral - - - Horizontal Cone Through 60-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1805.6	0.0	1805.6
	% Fixture	19.0	0.0	19.0
Street Side	Lumens	7682.1	0.0	7682.1
	% Fixture	81.0	0.0	81.0
Total	Lumens	9487.7	0.0	9487.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	235.4	2.5
10°-20°	497.0	5.2
20°-30°	727.2	7.7
30°-40°	1024.6	10.8
40°-50°	1408.1	14.8
50°-60°	1919.1	20.2
60°-70°	2100.4	22.1
70°-80°	1212.6	12.8
80°-90°	363.1	3.8
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°	9487.7	100.0
0°-180°	9487.7	100.0

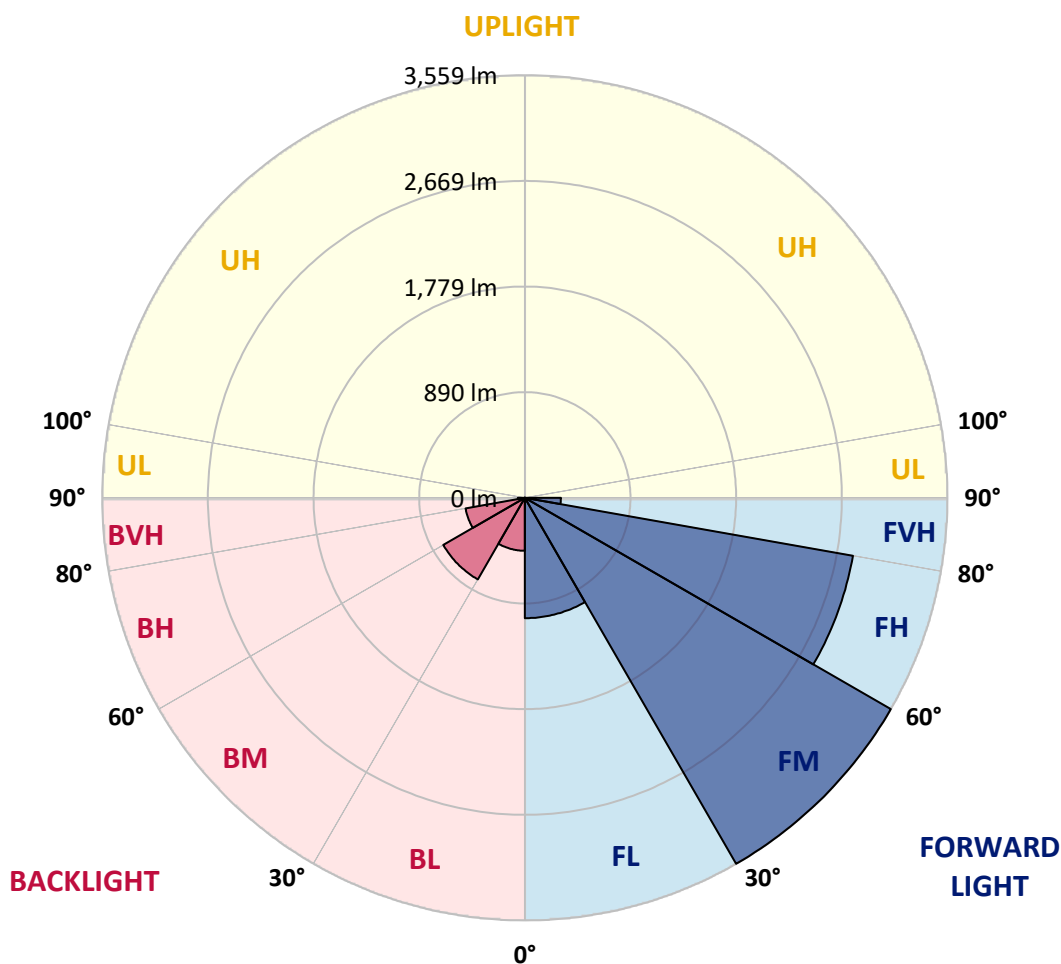


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1013.6	10.7			
FM (30°-60°)	3558.7	37.5			
FH (60°-80°)	2805.9	29.6			G2/5000
FVH (80°-90°)	304.0	3.2			G3/500
BL (0°-30°)	446.1	4.7	B1/500		
BM (30°-60°)	793.2	8.4	B1/1000		
BH (60°-80°)	507.2	5.3	B2/1000		G2/1000
BVH (80°-90°)	59.2	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B2-U0-G3
 Type IV Short





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CANDELA DISTRIBUTION (FULL):

	0°	1°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3
2.5°	3245.0	3232.4	3245.0	3291.3	3303.9	3324.9	3324.9	3295.5	3240.8	3215.5	3173.4
5°	3316.5	3295.5	3400.7	3497.5	3573.3	3564.8	3493.3	3434.4	3324.9	3160.8	3005.1
7.5°	3173.4	3194.5	3270.2	3522.8	3699.5	3733.2	3619.6	3501.7	3266.0	3038.7	2828.3
10°	2904.1	2933.5	3097.7	3358.6	3636.4	3691.1	3619.6	3476.5	3194.5	2912.5	2668.4
12.5°	2773.6	2840.9	2937.7	3253.4	3451.2	3581.7	3548.0	3455.4	3139.8	2807.3	2571.6
15°	2773.6	2790.4	2933.5	3198.7	3312.3	3316.5	3329.2	3346.0	3156.6	2853.6	2537.9
17.5°	2862.0	2908.3	3030.3	3194.5	3215.5	3165.0	3165.0	3236.6	3190.3	2984.0	2660.0
20°	3076.6	3059.8	3219.7	3287.1	3173.4	3047.2	3034.5	3156.6	3228.1	3122.9	2883.0
22.5°	3291.3	3367.0	3497.5	3346.0	3135.5	2967.2	2950.4	3101.9	3341.8	3362.8	3139.8
25°	3615.4	3691.1	3758.5	3573.3	3131.3	2946.2	2958.8	3076.6	3480.7	3703.7	3569.1
27.5°	3964.7	4011.0	4107.8	3821.6	3232.4	2920.9	2933.5	3110.3	3611.1	3926.8	3905.8
30°	4162.5	4213.0	4192.0	3867.9	3299.7	2937.7	2904.1	3156.6	3539.6	3926.8	4124.6
32.5°	4356.1	4326.6	4314.0	3943.6	3383.9	3043.0	2958.8	3253.4	3581.7	3989.9	4406.6
35°	4591.8	4549.7	4516.0	4090.9	3522.8	3144.0	3106.1	3379.7	3674.3	4120.4	4633.9
37.5°	4852.7	4852.7	4688.6	4200.4	3686.9	3308.1	3266.0	3560.6	3821.6	4200.4	4945.3
40°	5160.0	5172.6	4882.2	4347.7	3872.1	3569.1	3556.4	3796.3	3964.7	4318.2	5244.2
42.5°	5387.3	5395.7	5050.5	4402.4	4086.7	3931.0	3985.7	4175.1	4128.8	4423.4	5265.2
45°	5543.0	5500.9	5168.4	4558.1	4322.4	4473.9	4490.8	4545.5	4343.5	4486.6	5349.4
47.5°	5618.7	5610.3	5218.9	4739.1	4819.1	5025.3	5122.1	5046.3	4541.3	4419.2	5349.4
50°	5694.5	5622.9	5265.2	4987.4	5303.1	5719.7	5698.7	5559.8	4814.9	4503.4	5269.4
52.5°	5745.0	5681.9	5357.8	5210.5	5766.0	6237.4	6321.6	6064.9	5134.7	4659.1	5307.3
55°	5926.0	5875.5	5635.6	5513.5	6300.6	6784.6	6797.2	6439.5	5471.4	4915.9	5555.6
57.5°	6144.8	6174.3	6018.6	5942.8	6708.8	7184.4	7138.1	6717.2	5757.6	5227.3	5841.8
60°	6300.6	6346.9	6309.0	6317.4	6910.8	7319.1	7213.9	6889.8	5968.1	5463.0	6191.1
62.5°	6216.4	6309.0	6464.7	6431.0	6919.3	7222.3	7075.0	6662.5	5993.3	5770.3	6456.3
65°	5984.9	5993.3	6296.4	6481.5	6540.5	6721.4	6527.8	6186.9	5732.4	5959.6	6418.4
67.5°	5391.5	5458.8	5732.4	6094.3	5846.0	5888.1	5871.3	5378.8	5336.7	5829.2	6128.0
70°	4760.1	4806.4	5105.3	5530.4	4936.9	4739.1	4777.0	4410.8	4583.4	5425.1	5543.0
72.5°	3935.2	3964.7	4305.6	4680.2	3960.5	3606.9	3695.3	3396.5	3640.6	4747.5	4676.0
75°	2971.4	3026.1	3291.3	3733.2	2916.7	2689.4	2777.8	2655.7	2883.0	3910.0	3628.0
77.5°	2112.8	2070.7	2399.0	2920.9	2192.8	2058.1	2066.5	2087.6	2331.7	3295.5	2605.2
80°	1439.4	1452.0	1746.6	2142.3	1721.4	1700.4	1679.3	1847.7	1957.1	2609.5	1894.0
82.5°	854.4	854.4	1178.5	1523.6	1359.4	1532.0	1435.2	1586.7	1532.0	1919.2	1241.6
85°	399.8	399.8	606.1	1098.5	1052.2	1262.6	1073.2	1199.5	1132.2	1338.4	559.8
87.5°	67.3	58.9	122.1	538.7	433.5	492.4	193.6	639.7	711.3	934.4	138.9
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°	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3
2.5°	3127.1	3097.7	3038.7	2963.0	2899.9	2819.9	2794.6	2739.9	2664.2	2655.7	2622.1
5°	2946.2	2845.1	2718.9	2563.2	2457.9	2348.5	2255.9	2201.2	2138.1	2129.6	2112.8
7.5°	2748.3	2622.1	2411.6	2226.5	2045.5	1872.9	1788.7	1683.5	1612.0	1557.3	1532.0
10°	2563.2	2445.3	2184.4	1931.8	1771.9	1658.3	1557.3	1447.8	1359.4	1292.1	1266.8
12.5°	2441.1	2302.2	2020.2	1780.3	1662.5	1532.0	1418.4	1300.5	1186.9	1098.5	1052.2
15°	2386.4	2255.9	1969.7	1704.6	1532.0	1351.0	1220.5	1102.7	963.8	900.7	879.6
17.5°	2516.9	2323.3	1952.9	1616.2	1372.1	1165.8	1005.9	879.6	778.6	715.5	690.2
20°	2685.2	2445.3	1982.3	1511.0	1220.5	989.1	812.3	677.6	610.3	564.0	559.8
22.5°	2899.9	2626.3	2028.6	1435.2	1052.2	795.5	635.5	555.6	509.3	505.1	496.6
25°	3282.9	2954.6	2104.4	1334.2	917.5	656.6	542.9	496.6	475.6	463.0	471.4
27.5°	3611.1	3169.2	2159.1	1271.1	862.8	618.7	526.1	475.6	454.5	450.3	454.5
30°	3804.7	3367.0	2142.3	1153.2	753.4	589.2	559.8	542.9	500.8	467.2	467.2
32.5°	3981.5	3493.3	2138.1	1048.0	643.9	492.4	467.2	454.5	479.8	496.6	484.0
35°	4225.6	3691.1	2125.4	989.1	597.6	454.5	412.5	378.8	362.0	353.5	366.2
37.5°	4486.6	3825.8	2091.8	980.6	572.4	433.5	399.8	366.2	349.3	340.9	336.7
40°	4772.8	3968.9	2053.9	938.6	559.8	420.9	387.2	357.7	336.7	324.1	319.9
42.5°	4958.0	4082.5	2016.0	917.5	534.5	412.5	374.6	349.3	328.3	311.5	311.5
45°	5063.2	4217.2	1978.1	896.5	505.1	416.7	374.6	340.9	315.7	307.2	298.8
47.5°	5109.5	4318.2	1965.5	862.8	479.8	399.8	366.2	332.5	307.2	290.4	286.2
50°	5231.5	4532.9	2011.8	837.5	450.3	383.0	387.2	328.3	303.0	282.0	277.8
52.5°	5303.1	4705.4	2112.8	799.7	429.3	362.0	378.8	319.9	290.4	269.4	269.4
55°	5564.0	4991.6	2222.2	770.2	404.0	332.5	349.3	303.0	269.4	256.7	256.7
57.5°	5896.5	5294.7	2314.8	757.6	387.2	311.5	311.5	294.6	256.7	239.9	235.7
60°	6128.0	5543.0	2369.5	749.2	370.4	290.4	277.8	294.6	244.1	227.3	223.1
62.5°	6153.3	5399.9	2314.8	745.0	366.2	269.4	252.5	282.0	231.5	214.6	206.2
65°	5993.3	5109.5	2163.3	728.1	362.0	248.3	235.7	244.1	214.6	202.0	193.6
67.5°	5673.5	4638.1	1944.5	719.7	357.7	231.5	214.6	210.4	197.8	185.2	176.8
70°	4928.5	4023.6	1687.7	681.8	349.3	218.9	193.6	189.4	176.8	168.4	164.1
72.5°	4137.2	3291.3	1393.1	631.3	332.5	197.8	176.8	168.4	164.1	151.5	147.3
75°	3169.2	2533.7	1115.3	559.8	290.4	176.8	155.7	147.3	143.1	134.7	130.5
77.5°	2226.5	1885.5	824.9	454.5	244.1	159.9	138.9	130.5	126.3	113.6	113.6
80°	1511.0	1321.6	559.8	315.7	189.4	130.5	122.1	113.6	105.2	96.8	96.8
82.5°	938.6	925.9	404.0	206.2	138.9	105.2	96.8	96.8	84.2	75.8	75.8
85°	429.3	568.2	282.0	143.1	105.2	80.0	80.0	75.8	67.3	54.7	54.7
87.5°	134.7	189.4	147.3	63.1	58.9	46.3	46.3	42.1	42.1	33.7	33.7
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3
2.5°	2655.7	2651.5	2651.5	2634.7	2676.8	2676.8	2702.0	2681.0	2693.6	2697.8	2731.5
5°	2108.6	2142.3	2167.5	2218.0	2247.5	2260.1	2260.1	2293.8	2281.2	2306.4	2356.9
7.5°	1544.6	1586.7	1662.5	1725.6	1776.1	1792.9	1788.7	1797.2	1809.8	1780.3	1788.7
10°	1250.0	1220.5	1245.8	1304.7	1351.0	1405.7	1363.6	1359.4	1372.1	1359.4	1384.7
12.5°	1043.8	1010.1	989.1	989.1	1022.7	1048.0	1035.4	1056.4	1102.7	1115.3	1144.8
15°	846.0	816.5	799.7	778.6	812.3	820.7	833.3	862.8	896.5	913.3	947.0
17.5°	677.6	677.6	677.6	660.8	673.4	686.0	690.2	728.1	732.3	749.2	761.8
20°	555.6	568.2	589.2	597.6	610.3	610.3	601.9	622.9	606.1	618.7	627.1
22.5°	500.8	517.7	526.1	530.3	547.1	551.4	530.3	534.5	538.7	526.1	530.3
25°	471.4	479.8	471.4	475.6	479.8	471.4	475.6	484.0	479.8	488.2	484.0
27.5°	458.8	450.3	446.1	441.9	441.9	433.5	437.7	437.7	446.1	450.3	450.3
30°	458.8	446.1	429.3	416.7	416.7	404.0	412.5	420.9	425.1	433.5	433.5
32.5°	471.4	446.1	416.7	404.0	391.4	383.0	391.4	404.0	420.9	425.1	429.3
35°	374.6	387.2	383.0	366.2	362.0	362.0	357.7	357.7	345.1	345.1	340.9
37.5°	336.7	332.5	340.9	345.1	349.3	336.7	336.7	319.9	315.7	319.9	319.9
40°	315.7	315.7	315.7	328.3	332.5	324.1	311.5	303.0	303.0	303.0	307.2
42.5°	307.2	298.8	294.6	303.0	315.7	307.2	294.6	290.4	290.4	294.6	294.6
45°	294.6	290.4	286.2	282.0	298.8	286.2	282.0	277.8	277.8	277.8	282.0
47.5°	282.0	277.8	269.4	269.4	273.6	269.4	265.2	265.2	265.2	273.6	273.6
50°	273.6	269.4	260.9	260.9	260.9	260.9	256.7	256.7	256.7	260.9	265.2
52.5°	260.9	256.7	252.5	248.3	248.3	248.3	248.3	248.3	248.3	252.5	256.7
55°	248.3	244.1	239.9	239.9	244.1	244.1	239.9	244.1	239.9	244.1	248.3
57.5°	235.7	231.5	227.3	231.5	235.7	231.5	231.5	231.5	231.5	231.5	235.7
60°	218.9	218.9	218.9	218.9	227.3	227.3	227.3	227.3	218.9	223.1	227.3
62.5°	210.4	206.2	206.2	210.4	214.6	214.6	218.9	214.6	210.4	214.6	214.6
65°	193.6	193.6	193.6	197.8	197.8	202.0	202.0	202.0	197.8	202.0	202.0
67.5°	181.0	181.0	181.0	181.0	189.4	189.4	189.4	189.4	185.2	185.2	189.4
70°	159.9	164.1	159.9	168.4	176.8	172.6	176.8	176.8	172.6	168.4	176.8
72.5°	147.3	147.3	147.3	147.3	159.9	159.9	159.9	164.1	159.9	155.7	159.9
75°	130.5	130.5	130.5	134.7	143.1	143.1	143.1	143.1	143.1	138.9	138.9
77.5°	113.6	117.8	113.6	117.8	126.3	122.1	126.3	130.5	126.3	122.1	122.1
80°	96.8	96.8	96.8	101.0	105.2	105.2	105.2	109.4	105.2	101.0	101.0
82.5°	75.8	75.8	80.0	80.0	84.2	84.2	84.2	88.4	84.2	80.0	80.0
85°	58.9	58.9	58.9	63.1	63.1	67.3	67.3	71.5	71.5	67.3	67.3
87.5°	37.9	33.7	37.9	37.9	42.1	42.1	37.9	33.7	37.9	33.7	29.5
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°	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3	3030.3
2.5°	2765.2	2840.9	2895.6	2933.5	2988.2	3093.5	3135.5	3211.3	3232.4	3245.0
5°	2378.0	2457.9	2575.8	2660.0	2756.8	2954.6	3106.1	3219.7	3270.2	3316.5
7.5°	1864.5	1969.7	2091.8	2201.2	2361.1	2605.2	2803.1	3038.7	3127.1	3173.4
10°	1456.2	1553.0	1687.7	1822.4	2045.5	2251.7	2533.7	2748.3	2870.4	2904.1
12.5°	1229.0	1342.6	1502.5	1666.7	1805.6	2041.3	2327.5	2638.9	2752.5	2773.6
15°	1043.8	1199.5	1363.6	1532.0	1691.9	1898.2	2205.4	2584.2	2752.5	2773.6
17.5°	862.8	1001.7	1195.3	1376.3	1561.5	1843.5	2226.5	2630.5	2798.8	2862.0
20°	686.0	820.7	972.2	1199.5	1452.0	1750.9	2272.7	2786.2	3009.3	3076.6
22.5°	568.2	627.1	774.4	993.3	1292.1	1687.7	2319.0	3030.3	3266.0	3291.3
25°	496.6	538.7	631.3	837.5	1165.8	1645.6	2428.5	3312.3	3615.4	3615.4
27.5°	463.0	479.8	542.9	728.1	1077.5	1607.8	2537.9	3623.8	3905.8	3964.7
30°	454.5	496.6	530.3	648.2	980.6	1502.5	2638.9	3867.9	4158.3	4162.5
32.5°	446.1	437.7	463.0	564.0	862.8	1393.1	2723.1	4116.2	4343.5	4356.1
35°	349.3	366.2	408.3	496.6	774.4	1313.1	2765.2	4250.9	4579.2	4591.8
37.5°	328.3	349.3	383.0	458.8	715.5	1245.8	2777.8	4511.8	4827.5	4852.7
40°	319.9	336.7	362.0	425.1	669.2	1161.6	2803.1	4781.2	5193.6	5160.0
42.5°	303.0	324.1	349.3	408.3	631.3	1098.5	2807.3	4928.5	5387.3	5387.3
45°	298.8	311.5	340.9	408.3	589.2	1043.8	2739.9	5075.8	5610.3	5543.0
47.5°	282.0	307.2	332.5	395.6	538.7	989.1	2660.0	5151.6	5639.8	5618.7
50°	277.8	303.0	345.1	374.6	509.3	963.8	2643.1	5341.0	5698.7	5694.5
52.5°	269.4	294.6	357.7	357.7	471.4	930.1	2723.1	5425.1	5711.3	5745.0
55°	256.7	294.6	332.5	328.3	437.7	888.1	2811.5	5644.0	5934.4	5926.0
57.5°	248.3	286.2	315.7	298.8	399.8	858.6	2941.9	5854.4	6203.8	6144.8
60°	235.7	286.2	282.0	277.8	370.4	833.3	3051.4	5896.5	6262.7	6300.6
62.5°	227.3	298.8	248.3	256.7	345.1	820.7	3005.1	5580.9	6182.7	6216.4
65°	218.9	256.7	227.3	235.7	336.7	795.5	2824.1	5202.1	5837.6	5984.9
67.5°	202.0	210.4	210.4	218.9	328.3	736.5	2453.7	4520.2	5311.5	5391.5
70°	185.2	189.4	189.4	202.0	319.9	669.2	2024.4	3910.0	4608.6	4760.1
72.5°	168.4	168.4	168.4	185.2	294.6	614.5	1666.7	3005.1	3830.0	3935.2
75°	147.3	147.3	147.3	164.1	265.2	559.8	1313.1	2234.9	2819.9	2971.4
77.5°	130.5	130.5	126.3	147.3	231.5	454.5	947.0	1578.3	1986.5	2112.8
80°	109.4	105.2	105.2	117.8	181.0	328.3	610.3	1115.3	1384.7	1439.4
82.5°	88.4	84.2	80.0	88.4	130.5	206.2	378.8	778.6	888.1	854.4
85°	84.2	88.4	71.5	67.3	92.6	134.7	239.9	479.8	399.8	399.8
87.5°	33.7	29.5	29.5	25.3	46.3	50.5	105.2	88.4	67.3	67.3
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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