

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: P677280

Luminaire Tested: **CCW-SA-2D-735-U-SLL-HSS**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P677280
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2D-735-U-SLL-HSS
Description: INVUE CLEAR CURVE Wall Pack MOUNT Light Square Luminaire @800mA w/
SLL distribution lens and House Side Shield
Light Source: (32) 3500K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

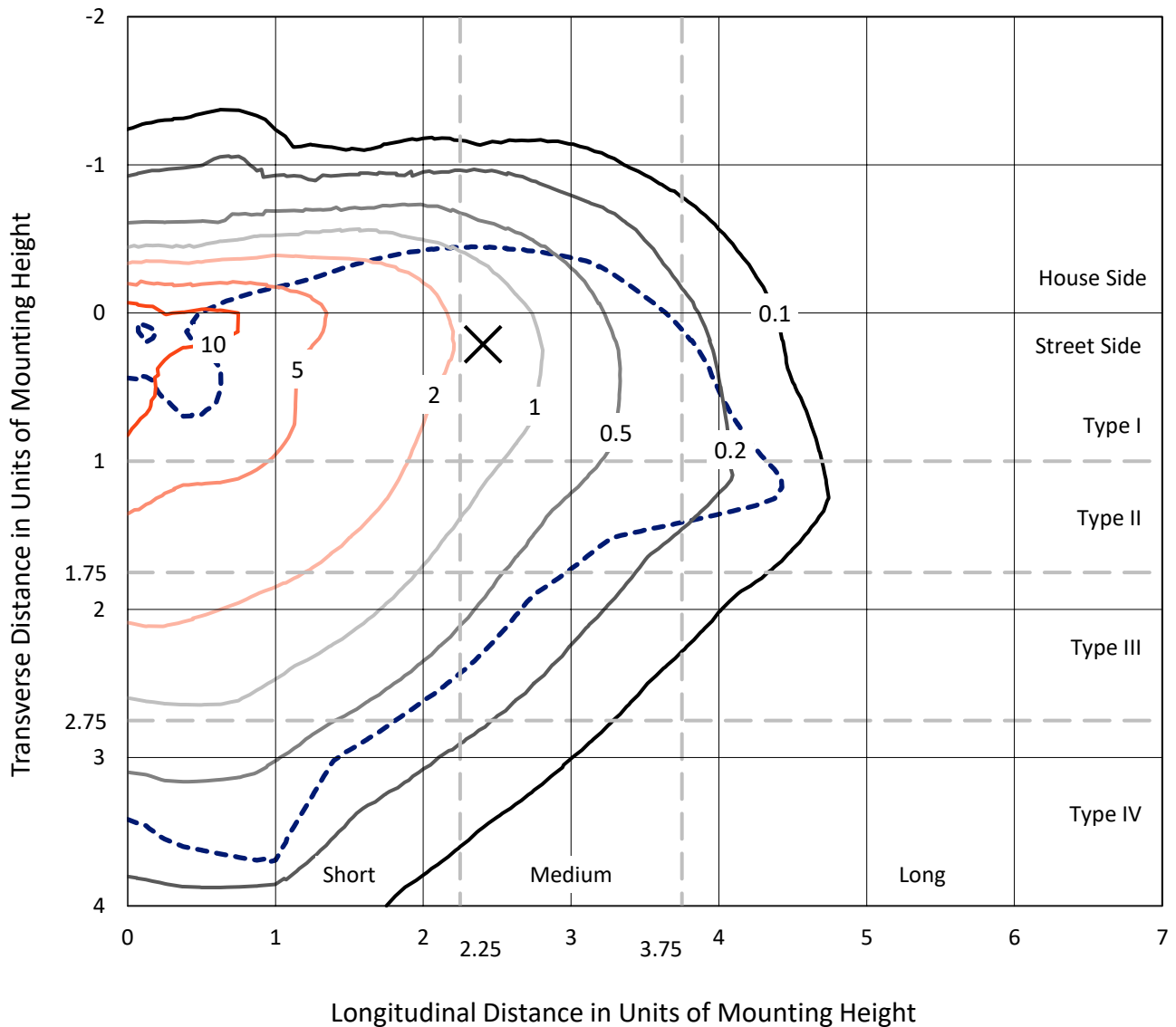
Lumens per Lamp: N/A
Luminaire Lumens: 7980.9 lumens
Efficiency: N/A
Efficacy: 98.8 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type III - Medium
BUG Rating: B1 - U0 - G2

Input Watts (W): 80.8
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

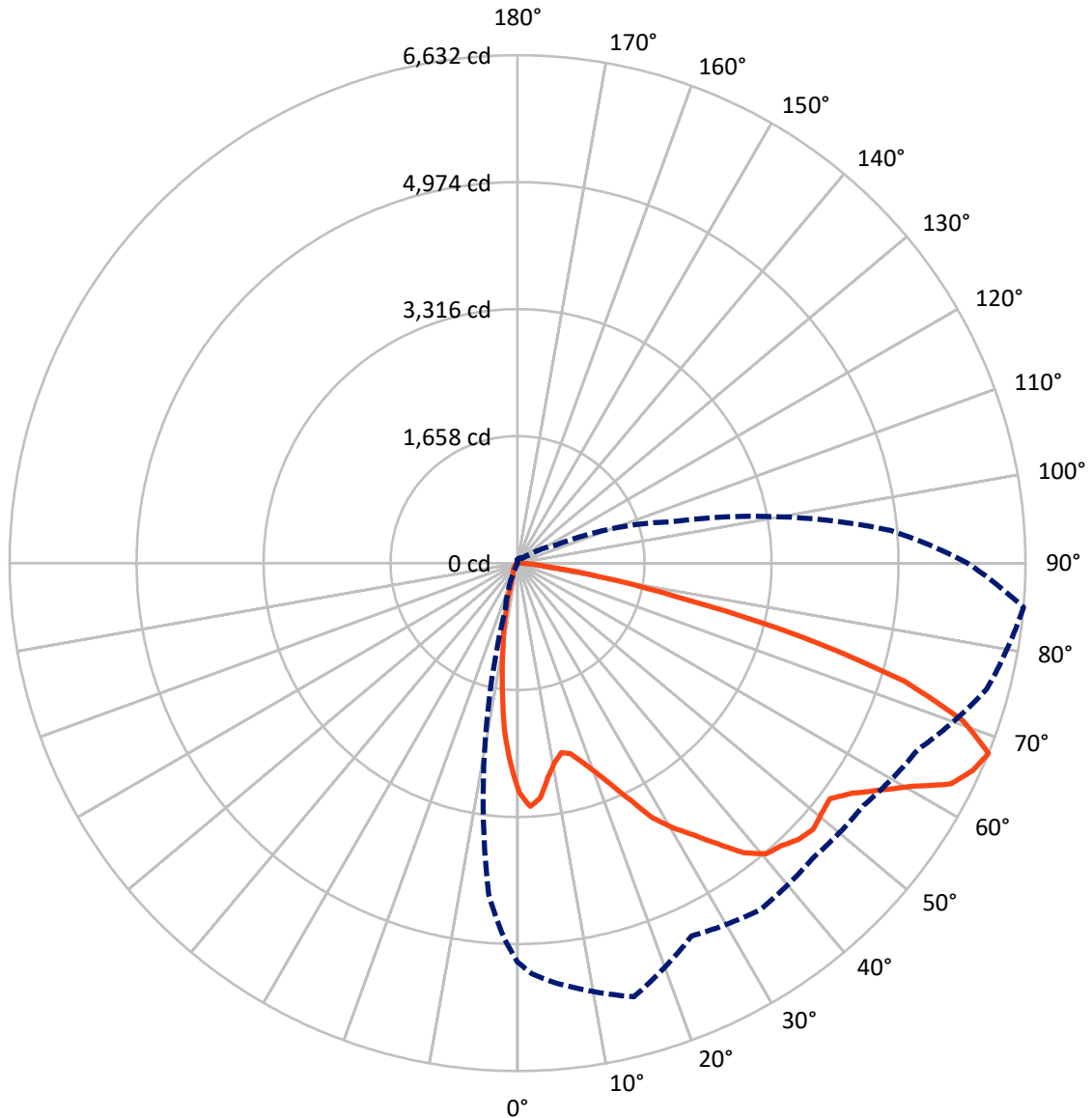
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 15 fc
 Type III - Medium - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 85-Deg Lateral - - - Horizontal Cone Through 67.5-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1385.8	0.0	1385.8
	% Fixture	17.4	0.0	17.4
Street Side	Lumens	6595.2	0.0	6595.2
	% Fixture	82.6	0.0	82.6
Total	Lumens	7980.9	0.0	7980.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	228.0	2.9
10°-20°	447.0	5.6
20°-30°	618.6	7.8
30°-40°	874.3	11.0
40°-50°	1190.3	14.9
50°-60°	1576.5	19.8
60°-70°	1830.5	22.9
70°-80°	1036.6	13.0
80°-90°	179.1	2.2
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°	7980.9	100.0
0°-180°	7980.9	100.0

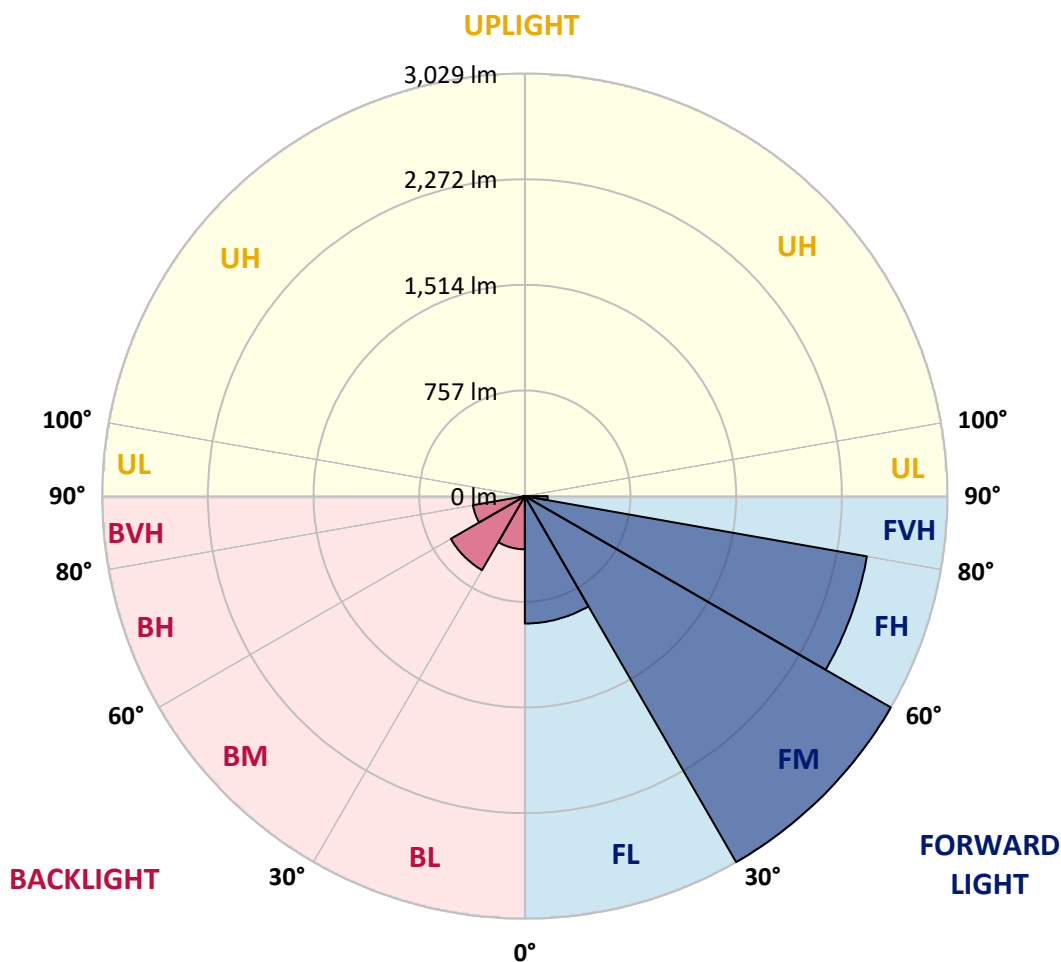


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	912.7	11.4			
FM (30°-60°)	3028.8	38.0			
FH (60°-80°)	2489.7	31.2			G2/5000
FVH (80°-90°)	164.0	2.1			G2/225
BL (0°-30°)	381.0	4.8	B1/500		
BM (30°-60°)	612.3	7.7	B1/1000		
BH (60°-80°)	377.4	4.7	B1/500		G1/500
BVH (80°-90°)	15.1	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G2
 Type III Medium





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CANDELA DISTRIBUTION (FULL):

	0°	2°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8
2.5°	3118.0	3184.1	3186.2	3216.0	3245.9	3245.9	3316.2	3299.1	3237.3	3226.7	3181.9
5°	3141.4	3164.9	3181.9	3333.2	3461.1	3448.3	3486.7	3461.1	3341.8	3188.3	3083.9
7.5°	2939.0	2964.5	3032.7	3290.6	3463.3	3520.8	3593.3	3433.4	3307.7	3030.6	2830.3
10°	2670.4	2719.5	2845.2	3139.3	3352.4	3535.7	3535.7	3407.8	3164.9	2894.2	2649.1
12.5°	2521.2	2619.3	2687.5	2985.9	3262.9	3388.7	3384.4	3316.2	3158.5	2817.5	2540.4
15°	2546.8	2574.5	2719.5	2951.8	3135.0	3128.6	3205.4	3184.1	3073.2	2885.7	2580.9
17.5°	2664.0	2706.7	2832.4	2951.8	3039.1	3013.6	3011.4	3113.7	3120.1	3000.8	2732.2
20°	2855.8	2981.6	3041.3	3077.5	2970.9	2862.2	2849.5	2992.2	3103.1	3147.8	2913.4
22.5°	3162.7	3245.9	3367.3	3181.9	2904.9	2768.5	2742.9	2900.6	3124.4	3322.6	3147.8
25°	3463.3	3527.2	3644.4	3405.7	2979.5	2749.3	2704.5	2840.9	3205.4	3565.5	3431.3
27.5°	3780.8	3836.2	3849.0	3569.8	3020.0	2710.9	2657.6	2840.9	3273.6	3693.4	3770.1
30°	3974.7	4040.8	4053.6	3714.7	3086.0	2742.9	2717.3	2853.7	3320.5	3802.1	4013.1
32.5°	4192.1	4209.2	4198.5	3740.3	3158.5	2836.7	2730.1	2939.0	3373.7	3932.1	4234.8
35°	4452.1	4482.0	4373.3	3857.5	3320.5	2896.3	2858.0	3043.4	3465.4	3991.8	4503.3
37.5°	4650.3	4744.1	4499.0	3902.3	3352.4	3022.1	3028.5	3260.8	3529.3	4064.3	4799.5
40°	5023.3	4865.6	4712.2	4055.7	3473.9	3235.2	3201.1	3484.6	3744.6	4111.1	4993.5
42.5°	5227.9	5144.8	4795.3	4070.7	3661.5	3529.3	3537.8	3738.2	3857.5	4243.3	5046.8
45°	5279.1	5191.7	4908.2	4081.3	3846.9	3876.7	4023.8	4062.1	4023.8	4330.7	5146.9
47.5°	5409.1	5219.4	4895.4	4224.1	4147.4	4262.5	4450.0	4533.1	4249.7	4298.7	5193.8
50°	5383.5	5274.8	4867.7	4283.8	4513.9	4818.7	4944.5	4910.4	4501.2	4232.6	5142.7
52.5°	5276.9	5159.7	4953.0	4445.7	4857.1	5225.8	5400.5	5315.3	4724.9	4381.8	5108.6
55°	5432.5	5343.0	5063.8	4665.3	5115.0	5583.8	5707.4	5643.5	4999.9	4520.3	5302.5
57.5°	5600.9	5581.7	5364.3	4923.1	5419.7	5952.5	5952.5	5873.7	5238.6	4720.7	5590.2
60°	5843.8	5886.5	5586.0	5093.6	5524.2	5931.2	6240.2	6148.6	5479.4	5072.3	5916.3
62.5°	5765.0	5901.4	5871.5	5460.2	5643.5	6035.6	6204.0	6272.2	5777.8	5500.7	6351.1
65°	5511.4	5656.3	5869.4	5701.0	5554.0	5782.0	5867.3	6074.0	5927.0	5903.5	6530.1
67.5°	5208.7	5366.4	5498.6	5863.0	5372.8	5524.2	5449.6	5515.6	5765.0	6344.7	6632.4
70°	4548.0	4699.4	4908.2	5502.8	4893.3	4756.9	4737.7	4705.8	5093.6	6187.0	6167.8
72.5°	3740.3	3810.6	4155.9	4473.5	3621.0	3595.4	3625.2	3589.0	4038.7	5600.9	5283.3
75°	2800.4	2870.8	3066.8	3435.5	2465.8	2318.8	2489.3	2657.6	3083.9	4347.7	3795.7
77.5°	2105.7	2195.2	2318.8	2570.3	1809.4	1579.2	1602.7	1762.5	2229.3	3482.4	2127.0
80°	1366.1	1355.5	1594.2	1768.9	1361.9	1404.5	1344.8	1462.0	1615.5	1862.7	1086.9
82.5°	788.6	799.2	899.4	1014.5	948.4	1084.8	782.2	1306.4	1153.0	758.7	404.9
85°	443.3	462.5	554.1	703.3	594.6	398.5	326.1	647.9	724.6	311.2	196.1
87.5°	44.8	38.4	74.6	266.4	162.0	66.1	98.0	155.6	174.8	117.2	57.5
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):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8
2.5°	3118.0	3118.0	3064.7	2975.2	2939.0	2875.0	2787.7	2815.4	2785.5	2676.8	2649.1
5°	2990.1	2887.8	2777.0	2640.6	2561.7	2399.8	2348.6	2257.0	2271.9	2180.2	2184.5
7.5°	2723.7	2642.7	2455.2	2276.2	2120.6	1979.9	1781.7	1707.1	1634.7	1598.4	1641.0
10°	2568.1	2416.8	2161.1	1926.6	1719.9	1594.2	1462.0	1359.7	1266.0	1195.6	1180.7
12.5°	2455.2	2320.9	2011.9	1726.3	1564.3	1462.0	1340.5	1199.9	1108.2	986.8	950.5
15°	2421.1	2257.0	1930.9	1647.4	1489.7	1321.4	1182.8	1044.3	925.0	797.1	752.3
17.5°	2538.3	2348.6	1928.8	1583.5	1361.9	1180.7	988.9	833.3	711.8	594.6	566.9
20°	2736.5	2446.7	1990.6	1545.1	1240.4	997.4	780.0	624.5	488.1	411.3	392.1
22.5°	2962.4	2612.9	1997.0	1442.8	1118.9	814.1	569.0	411.3	334.6	298.4	287.7
25°	3239.5	2879.3	2073.7	1359.7	976.1	618.1	404.9	315.4	270.7	249.4	245.1
27.5°	3467.5	3064.7	2156.8	1272.3	835.4	458.2	317.6	257.9	234.4	213.1	211.0
30°	3704.1	3277.8	2180.2	1219.1	714.0	377.2	272.8	228.0	202.5	191.8	189.7
32.5°	3910.8	3510.1	2254.8	1131.7	598.9	332.5	247.2	204.6	187.5	170.5	168.4
35°	4177.2	3644.4	2291.1	1084.8	556.3	300.5	225.9	187.5	162.0	151.3	147.1
37.5°	4462.8	3774.4	2314.5	1048.6	520.0	281.3	213.1	176.9	153.4	138.5	134.3
40°	4729.2	3957.7	2280.4	1003.8	492.3	257.9	204.6	164.1	142.8	127.9	121.5
42.5°	4933.8	4136.7	2269.8	961.2	462.5	249.4	193.9	157.7	134.3	117.2	115.1
45°	5048.9	4258.2	2195.2	927.1	439.0	253.6	189.7	149.2	127.9	113.0	104.4
47.5°	5021.2	4352.0	2214.3	916.4	407.1	236.6	187.5	142.8	117.2	104.4	98.0
50°	5174.6	4541.7	2182.4	882.3	383.6	213.1	204.6	142.8	115.1	100.2	93.8
52.5°	5200.2	4714.3	2250.6	820.5	347.4	196.1	202.5	140.7	110.8	95.9	87.4
55°	5413.3	4914.6	2382.7	786.4	317.6	170.5	185.4	136.4	100.2	87.4	83.1
57.5°	5703.2	5330.2	2468.0	754.5	277.1	149.2	155.6	134.3	91.6	81.0	74.6
60°	5982.4	5496.4	2474.4	696.9	238.7	134.3	121.5	134.3	85.2	72.5	66.1
62.5°	6191.2	5496.4	2431.7	647.9	208.9	119.3	106.6	127.9	76.7	63.9	59.7
65°	6078.3	5349.4	2320.9	607.4	189.7	104.4	91.6	98.0	68.2	55.4	51.1
67.5°	5875.8	4891.2	2075.8	558.4	187.5	91.6	78.9	72.5	59.7	49.0	44.8
70°	5551.9	4273.1	1728.4	503.0	183.3	83.1	70.3	61.8	53.3	42.6	38.4
72.5°	4473.5	3529.3	1419.4	471.0	179.0	72.5	59.7	53.3	44.8	36.2	32.0
75°	3098.8	2254.8	1093.3	402.8	174.8	66.1	55.4	46.9	38.4	29.8	27.7
77.5°	1858.4	1506.8	705.4	302.6	115.1	53.3	46.9	36.2	32.0	25.6	23.4
80°	869.5	711.8	285.6	117.2	55.4	38.4	32.0	27.7	25.6	21.3	19.2
82.5°	341.0	300.5	138.5	68.2	44.8	29.8	25.6	23.4	21.3	17.0	14.9
85°	183.3	162.0	66.1	46.9	32.0	21.3	21.3	19.2	17.0	14.9	12.8
87.5°	40.5	29.8	27.7	27.7	23.4	17.0	17.0	14.9	12.8	10.7	8.5
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):

	185°	195°	205°	215°	225°	235°	245°	255°	265°	270°	275°
0°	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8
2.5°	2634.2	2666.2	2615.0	2647.0	2602.2	2636.3	2640.6	2608.6	2617.2	2659.8	2679.0
5°	2244.2	2222.9	2176.0	2161.1	2163.2	2135.5	2146.1	2161.1	2184.5	2197.3	2235.7
7.5°	1617.6	1666.6	1664.5	1700.7	1702.9	1698.6	1668.8	1604.8	1626.1	1609.1	1630.4
10°	1157.3	1178.6	1219.1	1242.5	1285.1	1261.7	1193.5	1167.9	1155.1	1153.0	1174.3
12.5°	925.0	873.8	869.5	878.1	899.4	871.7	837.6	807.7	822.7	852.5	875.9
15°	716.1	673.5	618.1	609.5	613.8	601.0	564.8	526.4	537.1	566.9	584.0
17.5°	549.9	500.8	462.5	436.9	428.4	383.6	330.3	298.4	289.8	287.7	302.6
20°	370.8	362.3	355.9	323.9	323.9	260.0	215.3	191.8	191.8	196.1	198.2
22.5°	277.1	266.4	268.5	262.1	245.1	193.9	170.5	164.1	164.1	168.4	168.4
25°	240.8	225.9	221.6	219.5	202.5	166.2	149.2	142.8	142.8	147.1	147.1
27.5°	204.6	200.3	193.9	185.4	170.5	142.8	132.1	125.7	127.9	130.0	127.9
30°	187.5	176.9	168.4	168.4	151.3	127.9	119.3	115.1	110.8	115.1	117.2
32.5°	166.2	159.8	155.6	149.2	130.0	113.0	104.4	100.2	98.0	98.0	100.2
35°	142.8	142.8	138.5	130.0	113.0	102.3	91.6	87.4	85.2	87.4	87.4
37.5°	127.9	121.5	123.6	115.1	100.2	89.5	78.9	74.6	74.6	72.5	74.6
40°	119.3	108.7	102.3	98.0	89.5	76.7	68.2	63.9	61.8	61.8	61.8
42.5°	106.6	98.0	85.2	83.1	81.0	66.1	55.4	53.3	51.1	49.0	49.0
45°	100.2	87.4	76.7	66.1	66.1	55.4	46.9	42.6	40.5	38.4	40.5
47.5°	91.6	78.9	66.1	55.4	53.3	44.8	36.2	32.0	29.8	29.8	29.8
50°	87.4	70.3	57.5	46.9	40.5	36.2	27.7	23.4	21.3	21.3	21.3
52.5°	81.0	66.1	51.1	40.5	32.0	27.7	21.3	17.0	14.9	14.9	14.9
55°	72.5	59.7	44.8	34.1	27.7	21.3	14.9	10.7	8.5	8.5	8.5
57.5°	68.2	53.3	38.4	29.8	21.3	14.9	8.5	6.4	6.4	4.3	6.4
60°	61.8	46.9	32.0	23.4	17.0	10.7	6.4	2.1	2.1	2.1	2.1
62.5°	53.3	40.5	27.7	19.2	12.8	6.4	2.1	0.0	0.0	0.0	0.0
65°	44.8	32.0	21.3	14.9	8.5	2.1	0.0	0.0	0.0	0.0	0.0
67.5°	38.4	27.7	17.0	10.7	6.4	0.0	0.0	0.0	0.0	0.0	0.0
70°	34.1	23.4	12.8	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	27.7	19.2	10.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	23.4	14.9	6.4	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	19.2	10.7	4.3	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	14.9	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	12.8	6.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	8.5	2.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	6.4	2.1	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):

	285°	295°	305°	315°	325°	335°	345°	355°	358°	360°
0°	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8	3000.8
2.5°	2706.7	2693.9	2757.8	2862.2	2915.5	3020.0	3045.5	3111.6	3094.5	3118.0
5°	2239.9	2265.5	2359.3	2512.7	2568.1	2719.5	2862.2	3005.0	3096.7	3141.4
7.5°	1662.4	1747.6	1862.7	2003.4	2146.1	2344.4	2587.3	2753.6	2843.1	2939.0
10°	1238.2	1329.9	1462.0	1600.6	1832.9	2054.5	2297.5	2504.2	2580.9	2670.4
12.5°	974.0	1116.8	1270.2	1419.4	1557.9	1768.9	2069.4	2369.9	2453.0	2521.2
15°	677.7	852.5	1072.0	1266.0	1459.9	1643.2	1954.3	2318.8	2431.7	2546.8
17.5°	375.1	513.6	765.1	1037.9	1323.5	1604.8	1992.7	2412.6	2583.1	2664.0
20°	217.4	272.8	451.8	775.8	1153.0	1521.7	2011.9	2589.4	2815.4	2855.8
22.5°	179.0	198.2	255.7	485.9	944.1	1468.4	2109.9	2836.7	3066.8	3162.7
25°	153.4	168.4	198.2	292.0	714.0	1355.5	2171.7	3145.7	3358.8	3463.3
27.5°	136.4	151.3	174.8	215.3	485.9	1199.9	2274.0	3424.9	3638.0	3780.8
30°	119.3	132.1	155.6	183.3	336.7	1025.1	2361.4	3629.5	3930.0	3974.7
32.5°	106.6	117.2	134.3	157.7	249.4	777.9	2431.7	3840.5	4094.1	4192.1
35°	91.6	104.4	115.1	134.3	189.7	586.1	2389.1	4004.6	4334.9	4452.1
37.5°	81.0	89.5	100.2	113.0	159.8	458.2	2301.7	4200.7	4541.7	4650.3
40°	68.2	74.6	87.4	100.2	144.9	353.8	2201.6	4437.2	4831.5	5023.3
42.5°	57.5	63.9	72.5	93.8	119.3	262.1	1999.1	4620.5	5065.9	5227.9
45°	44.8	53.3	66.1	93.8	95.9	193.9	1790.2	4756.9	5198.1	5279.1
47.5°	34.1	42.6	63.9	81.0	76.7	134.3	1543.0	4912.5	5334.5	5409.1
50°	25.6	34.1	72.5	70.3	63.9	102.3	1387.4	5021.2	5343.0	5383.5
52.5°	17.0	25.6	59.7	53.3	53.3	89.5	1344.8	5016.9	5364.3	5276.9
55°	12.8	19.2	34.1	38.4	46.9	78.9	1306.4	5176.8	5370.7	5432.5
57.5°	8.5	14.9	23.4	29.8	40.5	68.2	1227.6	5368.6	5568.9	5600.9
60°	4.3	10.7	17.0	23.4	34.1	59.7	1116.8	5509.2	5809.7	5843.8
62.5°	2.1	6.4	12.8	19.2	27.7	46.9	1001.7	5285.5	5705.3	5765.0
65°	0.0	4.3	8.5	12.8	17.0	34.1	814.1	4771.8	5291.8	5511.4
67.5°	0.0	0.0	4.3	8.5	10.7	25.6	613.8	4341.3	4910.4	5208.7
70°	0.0	0.0	2.1	2.1	6.4	19.2	392.1	3595.4	4383.9	4548.0
72.5°	0.0	0.0	0.0	0.0	2.1	12.8	228.0	2670.4	3435.5	3740.3
75°	0.0	0.0	0.0	0.0	0.0	10.7	115.1	1717.8	2391.2	2800.4
77.5°	0.0	0.0	0.0	0.0	0.0	8.5	61.8	1108.2	1762.5	2105.7
80°	0.0	0.0	0.0	0.0	0.0	2.1	36.2	643.6	1127.4	1366.1
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	14.9	315.4	673.5	788.6
85°	0.0	0.0	0.0	0.0	0.0	0.0	4.3	168.4	336.7	443.3
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	6.4	23.4	44.8
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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