

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: P676103

Luminaire Tested: **CCW-SA-2A-727-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676103
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-727-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (32) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

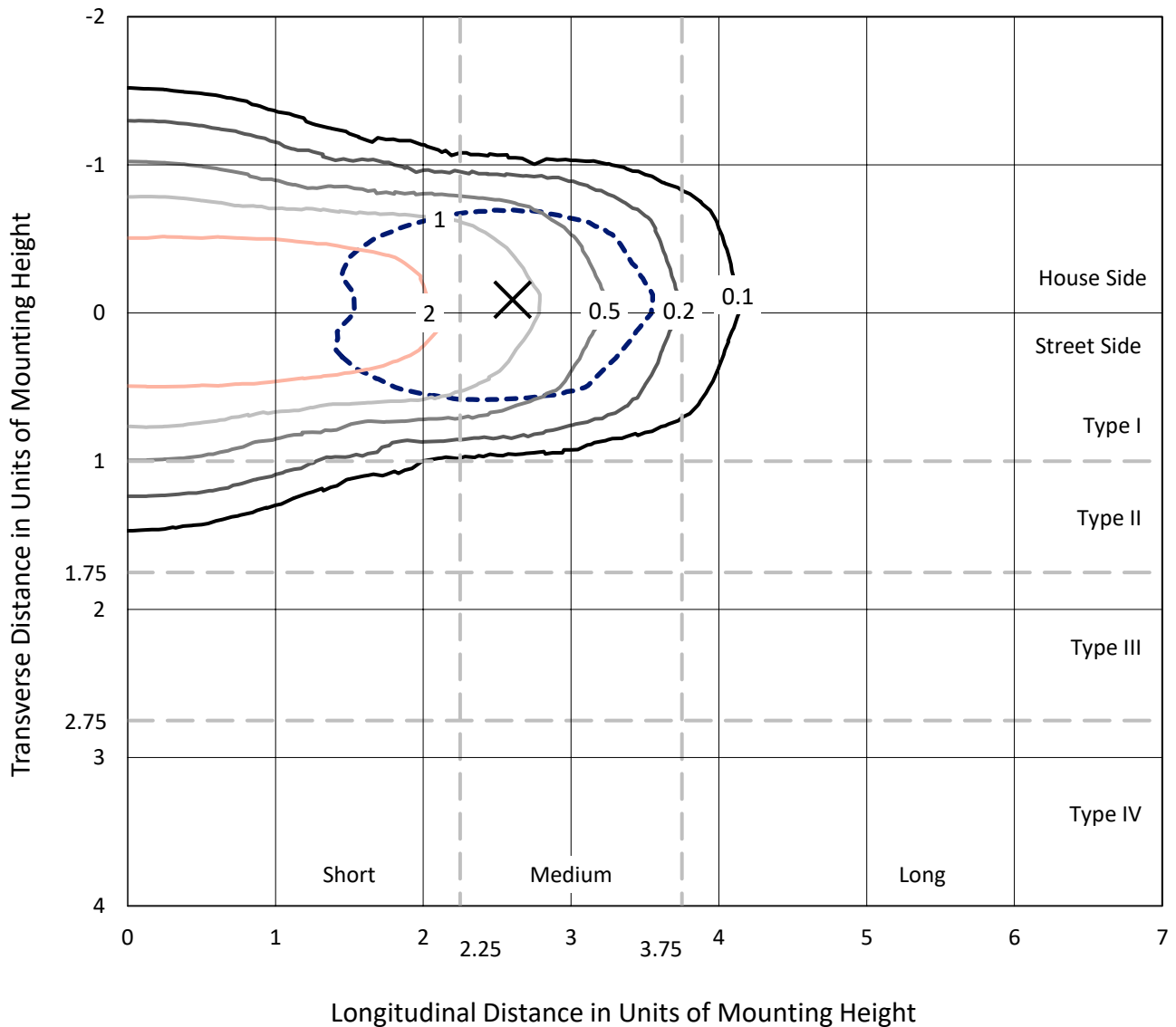
Lumens per Lamp: N/A
Luminaire Lumens: 4455.9 lumens
Efficiency: N/A
Efficacy: 123.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 36.2
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

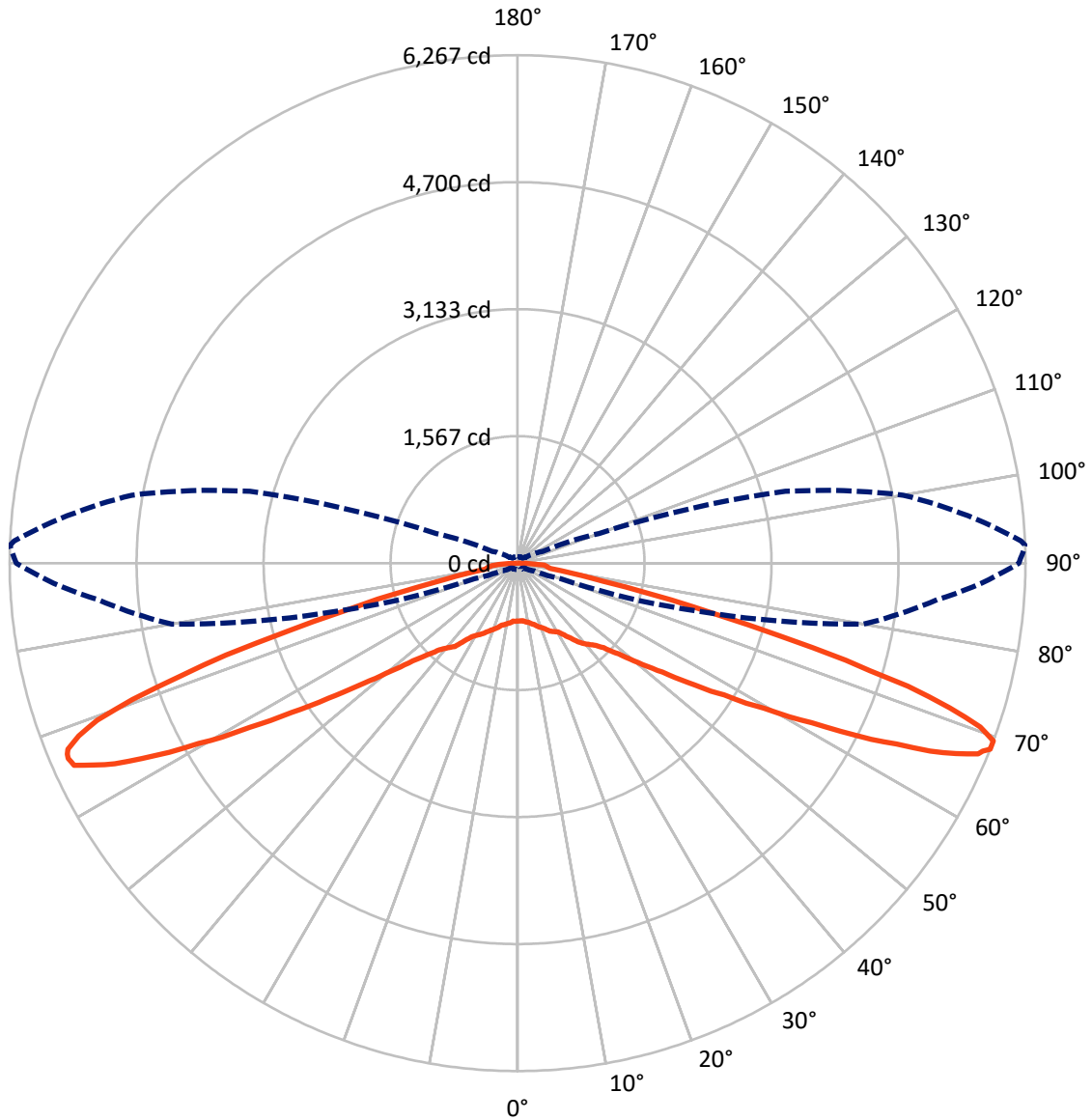
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 fc
 Type I - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 92-Deg Lateral - - - Horizontal Cone Through 69-Deg Vertical

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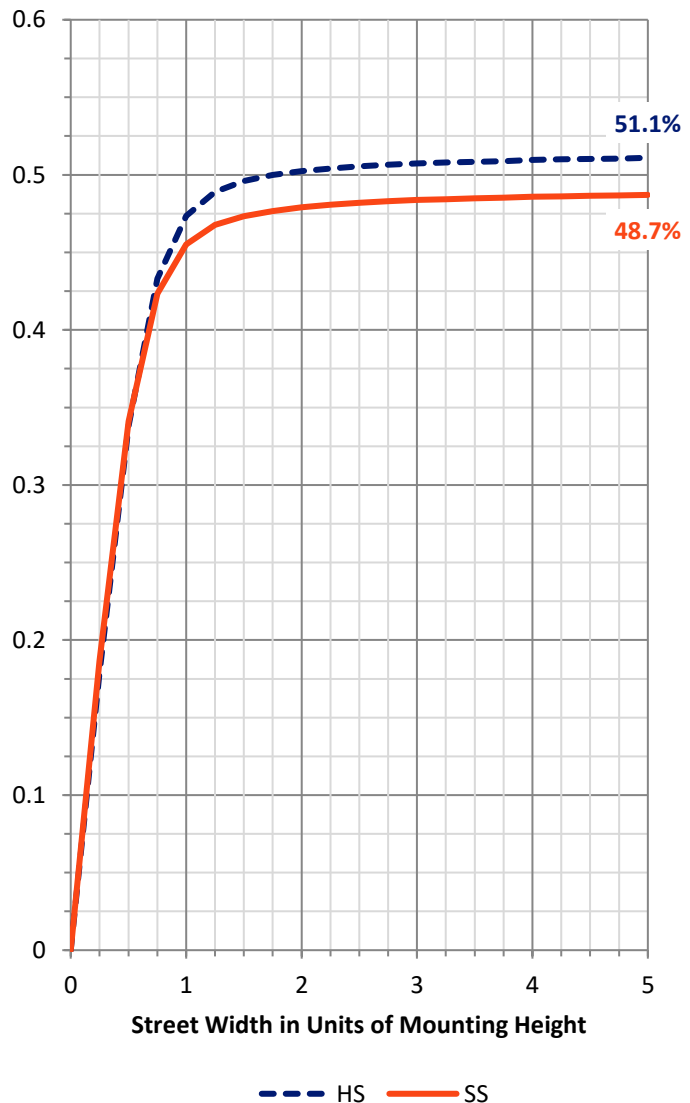
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2294.7	0.0	2294.7
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2161.2	0.0	2161.2
	% Fixture	48.5	0.0	48.5
Total	Lumens	4455.9	0.0	4455.9
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	71.4	1.6
10°-20°	231.2	5.2
20°-30°	394.5	8.9
30°-40°	550.8	12.4
40°-50°	700.6	15.7
50°-60°	885.9	19.9
60°-70°	1092.5	24.5
70°-80°	477.3	10.7
80°-90°	51.8	1.2
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°	4455.9	100.0
0°-180°	4455.9	100.0



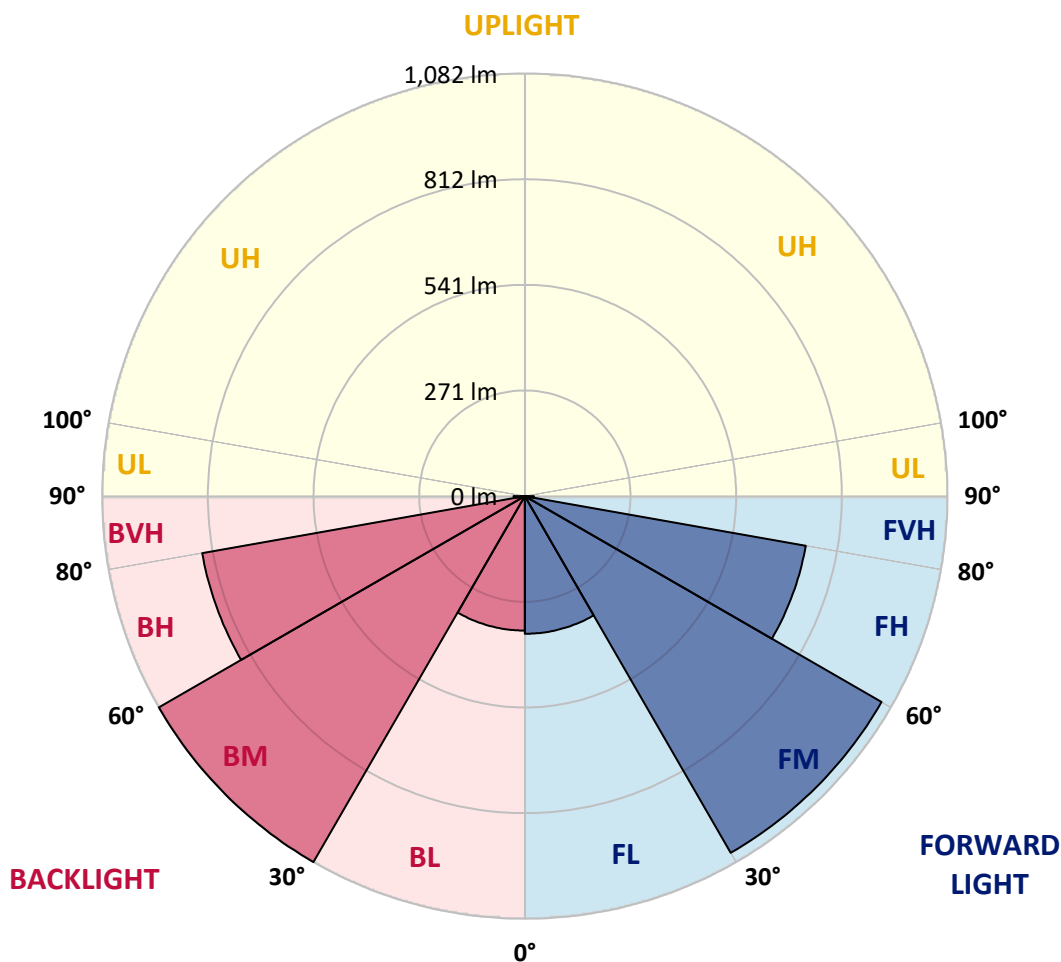
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	352.6	7.9			
FM (30°-60°)	1054.9	23.7			
FH (60°-80°)	730.7	16.4			G1/1800
FVH (80°-90°)	23.0	0.5			G1/100
BL (0°-30°)	344.4	7.7	B1/500		
BM (30°-60°)	1082.4	24.3	B2/2500		
BH (60°-80°)	839.1	18.8	B2/1000		G2/1000
BVH (80°-90°)	28.8	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-G2

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	712.5	712.5	712.5	712.5	712.5	712.5	712.5	712.5	712.5	712.5	712.5
2.5°	727.6	726.8	729.3	730.9	723.4	725.9	724.2	722.6	716.7	714.2	709.2
5°	747.7	750.2	758.5	751.0	754.4	750.2	736.8	741.0	733.4	731.8	726.8
7.5°	782.8	777.8	789.5	781.1	783.6	775.3	769.4	761.9	760.2	748.5	749.3
10°	790.3	800.4	805.4	803.7	805.4	809.6	798.7	787.0	771.1	767.7	756.0
12.5°	785.3	794.5	807.9	818.8	826.3	828.0	823.8	821.3	814.6	795.3	794.5
15°	780.3	773.6	782.0	819.6	844.7	861.4	867.3	853.0	854.7	829.6	819.6
17.5°	746.8	736.8	769.4	806.2	837.2	873.9	902.4	898.2	898.2	878.1	863.9
20°	702.5	719.2	736.0	782.8	839.7	894.9	949.2	946.7	936.7	930.8	899.9
22.5°	664.9	672.4	703.3	752.7	823.8	900.7	965.1	1011.1	987.7	964.3	945.9
25°	638.9	632.3	671.6	722.6	808.7	890.7	995.2	1042.9	1055.4	1037.9	1002.7
27.5°	602.1	602.1	633.1	681.6	760.2	885.7	1024.5	1097.2	1115.6	1089.7	1038.7
30°	560.3	565.3	592.1	647.3	724.2	848.9	1036.2	1160.0	1175.0	1152.4	1099.8
32.5°	527.7	527.7	557.8	616.4	699.2	832.1	1028.7	1221.9	1250.3	1233.6	1179.2
35°	492.6	490.1	511.8	576.2	659.0	799.5	1026.2	1271.2	1334.8	1335.6	1278.7
37.5°	442.4	452.4	480.0	531.1	627.2	767.7	1018.6	1330.6	1444.3	1463.6	1424.2
40°	409.0	413.1	438.2	494.3	577.9	730.1	1007.8	1379.1	1517.1	1583.1	1528.8
42.5°	360.5	366.3	385.5	455.0	530.2	676.6	960.1	1413.4	1620.8	1696.0	1650.1
45°	309.4	312.8	341.2	398.1	479.2	613.0	909.1	1468.6	1721.1	1875.0	1848.3
47.5°	248.4	250.1	274.3	333.7	418.2	549.5	830.5	1466.1	1802.3	2054.0	2129.3
50°	194.0	198.2	216.6	265.1	344.6	471.7	739.3	1446.0	1904.3	2258.1	2406.1
52.5°	154.7	155.6	167.3	205.7	265.9	393.9	641.5	1382.4	2000.5	2457.9	2745.6
55°	128.0	128.0	134.6	158.1	204.1	299.4	526.9	1277.1	2012.2	2678.7	3116.1
56°	122.9	121.3	127.1	147.2	184.0	270.1	473.4	1206.0	2028.9	2780.7	3301.8
57°	116.2	117.1	120.4	134.6	165.6	239.2	414.0	1136.6	2017.2	2864.4	3438.9
58°	112.9	111.2	117.9	127.1	146.4	212.4	373.0	1054.6	1998.8	2933.0	3638.8
59°	107.9	107.0	111.2	119.6	136.3	189.0	322.8	965.9	1962.8	3021.6	3787.7
60°	106.2	105.4	107.0	113.7	125.4	165.6	284.3	862.2	1866.7	3112.8	3972.5
61°	101.2	102.0	105.4	109.6	118.8	148.9	255.9	756.0	1803.9	3189.7	4176.6
62°	102.0	100.4	102.0	105.4	112.1	137.2	224.1	651.5	1691.9	3276.7	4329.6
63°	97.0	96.2	98.7	102.9	106.2	123.8	195.7	562.8	1564.7	3296.8	4459.2
64°	95.3	94.5	95.3	101.2	102.0	116.2	173.1	480.9	1380.8	3331.0	4625.7
65°	91.2	91.2	92.8	95.3	98.7	109.6	154.7	417.3	1197.6	3240.7	4676.7
66°	87.8	88.6	88.6	92.8	95.3	102.0	142.2	354.6	1022.0	3096.9	4726.0
67°	85.3	85.3	86.1	89.5	92.0	96.2	128.0	306.9	862.2	2925.4	4649.9
67.5°	83.6	84.5	84.5	87.8	90.3	96.2	122.1	291.0	771.1	2737.3	4593.0
68°	81.1	82.0	82.0	85.3	87.8	92.8	117.9	265.9	710.9	2615.2	4487.7
69°	79.4	78.6	78.6	82.0	85.3	88.6	109.6	232.5	565.3	2273.9	4333.8
70°	74.4	74.4	76.1	78.6	81.1	84.5	101.2	204.9	478.4	1882.5	3937.4
71°	71.9	71.1	71.9	74.4	76.9	81.1	92.8	181.5	391.4	1563.1	3547.7
72°	66.9	68.6	68.6	71.1	73.6	76.1	87.0	158.1	328.7	1249.5	3118.6
72.5°	66.1	66.1	66.9	69.4	71.1	75.3	83.6	151.4	300.2	1101.4	2938.8
73°	63.6	63.6	64.4	66.9	68.6	72.8	81.1	136.3	273.5	980.2	2602.6
74°	61.1	60.2	60.2	63.6	64.4	68.6	76.1	120.4	229.2	738.5	2089.1
75°	56.9	56.9	57.7	59.4	60.2	63.6	70.3	107.0	193.2	572.9	1634.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	46.8	47.7	48.5	50.2	50.2	52.7	57.7	74.4	117.9	290.2	750.2
80°	34.3	36.0	38.5	41.0	40.1	40.1	45.2	53.5	70.3	130.5	287.7
82.5°	27.6	29.3	26.8	30.1	30.1	28.4	32.6	39.3	47.7	64.4	102.9
85°	18.4	19.2	15.9	18.4	17.6	17.6	21.7	23.4	29.3	36.0	51.0
87.5°	8.4	8.4	6.7	7.5	7.5	7.5	10.9	8.4	12.5	17.6	30.1
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	712.5	712.5	712.5	712.5	712.5	712.5	712.5	712.5	712.5	712.5	712.5
2.5°	714.2	717.6	717.6	714.2	711.7	714.2	712.5	708.4	712.5	714.2	715.0
5°	724.2	717.6	720.9	713.4	718.4	717.6	715.9	720.1	720.9	720.9	726.8
7.5°	735.1	743.5	732.6	733.4	736.0	725.9	729.3	730.9	727.6	734.3	739.3
10°	754.4	757.7	754.4	741.8	750.2	743.5	741.0	748.5	746.8	748.5	756.0
12.5°	771.9	777.8	768.6	767.7	763.6	757.7	761.0	760.2	771.9	773.6	782.8
15°	807.9	792.8	789.5	788.6	787.0	784.5	786.1	787.0	802.0	804.5	826.3
17.5°	838.8	836.3	817.9	824.6	824.6	814.6	810.4	824.6	836.3	848.9	863.9
20°	870.6	868.1	848.0	848.9	841.3	850.5	845.5	858.9	879.0	883.1	896.5
22.5°	908.2	897.4	883.1	884.8	887.3	880.6	877.3	895.7	915.8	927.5	928.3
25°	967.6	940.0	928.3	930.0	926.6	921.6	924.1	947.5	957.6	982.7	977.7
27.5°	999.4	983.5	975.1	955.9	956.7	949.2	959.3	994.4	1014.5	1033.7	995.2
30°	1037.9	1027.8	991.0	984.3	983.5	980.2	998.6	1043.7	1073.8	1084.7	1029.5
32.5°	1113.1	1073.0	1063.8	1057.9	1044.6	1048.7	1057.9	1117.3	1165.0	1162.5	1061.3
35°	1199.3	1171.7	1145.8	1140.7	1139.1	1127.4	1143.2	1212.7	1249.5	1238.6	1073.0
37.5°	1337.3	1295.5	1260.3	1241.1	1237.7	1229.4	1267.0	1322.2	1369.9	1327.2	1082.2
40°	1405.0	1358.2	1325.6	1313.9	1316.4	1328.1	1364.9	1449.3	1470.2	1391.6	1089.7
42.5°	1502.0	1451.0	1386.6	1380.8	1373.2	1379.1	1450.2	1563.9	1581.5	1478.6	1061.3
45°	1674.3	1597.4	1522.9	1489.5	1491.2	1507.0	1617.4	1742.0	1709.4	1538.8	1016.1
47.5°	1891.7	1778.8	1718.6	1673.5	1695.2	1677.6	1853.3	1952.8	1841.6	1614.9	960.9
50°	2218.7	2060.7	1978.7	1924.4	1933.6	1948.6	2126.8	2211.2	1987.9	1651.7	876.5
52.5°	2631.0	2427.8	2307.4	2234.6	2241.3	2273.9	2503.9	2478.0	2155.2	1682.7	763.6
55°	3124.5	2915.4	2682.1	2652.0	2644.4	2722.2	2975.6	2757.3	2305.7	1633.3	646.5
56°	3385.4	3162.9	2920.4	2858.5	2840.1	2894.5	3192.2	2897.0	2357.6	1578.1	590.4
57°	3607.0	3394.6	3128.7	3023.3	3046.7	3148.7	3407.1	3028.3	2405.2	1521.3	537.8
58°	3911.4	3668.9	3387.9	3307.6	3286.7	3367.8	3638.8	3160.4	2421.1	1462.7	489.2
59°	4215.0	3924.0	3670.6	3524.2	3530.1	3678.1	3867.1	3317.7	2445.4	1388.3	427.4
60°	4445.9	4299.5	3960.8	3851.2	3836.2	4050.3	4094.6	3423.0	2471.3	1287.9	383.9
61°	4772.9	4582.2	4266.9	4125.5	4166.5	4338.0	4340.5	3555.2	2432.8	1160.8	330.3
62°	5007.9	4957.7	4626.5	4491.9	4479.3	4706.8	4596.4	3671.4	2399.4	1040.4	291.9
63°	5283.0	5283.0	4981.1	4875.7	4881.6	5061.4	4707.6	3787.7	2360.9	907.4	256.7
64°	5426.0	5605.8	5327.3	5179.3	5217.8	5373.3	4905.8	3863.8	2242.2	772.8	225.8
65°	5549.8	5819.9	5665.2	5596.6	5538.1	5630.1	5077.3	3934.9	2060.7	657.3	200.7
66°	5654.3	6021.5	5970.5	5896.9	5891.0	5870.1	5110.7	3932.4	1873.3	555.3	175.6
67°	5601.6	6025.7	6118.5	6149.4	6140.2	5919.4	5052.2	3842.9	1633.3	469.2	156.4
67.5°	5554.0	5991.4	6207.1	6189.6	6228.0	5961.3	5062.2	3733.3	1462.7	424.8	147.2
68°	5512.2	5945.4	6243.1	6265.7	6246.4	5966.3	5007.0	3646.3	1346.5	398.9	138.8
69°	5195.2	5727.1	6185.4	6266.5	6217.2	5774.8	4831.4	3419.7	1069.6	340.4	128.0
70°	4877.4	5444.4	5905.2	6054.1	5993.0	5404.3	4609.8	3059.2	882.3	291.0	115.4
71°	4437.5	4919.2	5532.2	5621.7	5548.1	4982.8	4151.5	2678.7	686.6	246.7	102.9
72°	3840.4	4249.3	4834.7	5051.3	4942.6	4376.4	3688.2	2213.7	556.1	207.4	93.7
72.5°	3544.3	3963.3	4527.8	4545.4	4566.3	4113.0	3491.6	1944.4	485.1	192.4	91.2
73°	3263.3	3673.9	4162.3	4224.2	4135.6	3668.9	3198.1	1738.7	443.2	175.6	87.8
74°	2644.4	2878.6	3283.4	3343.6	3265.8	2991.5	2613.5	1333.1	352.9	151.4	80.3
75°	2080.8	2209.5	2575.9	2539.1	2422.8	2326.6	2026.4	1018.6	286.0	133.0	74.4



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	935.0	1012.8	1073.8	1073.8	1080.5	1031.2	934.2	467.5	176.5	96.2	61.1
80°	356.3	398.9	412.3	413.1	419.0	434.0	403.9	230.0	104.5	68.6	49.3
82.5°	258.4	361.3	388.9	368.8	370.5	334.5	154.7	102.0	66.1	47.7	36.0
85°	234.2	314.5	332.9	330.3	331.2	309.4	91.2	50.2	38.5	30.1	25.1
87.5°	113.7	111.2	117.9	133.0	129.6	168.1	76.9	25.1	16.7	12.5	12.5
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):

	135°	145°	155°	165°	175°	180°
0°	712.5	712.5	712.5	712.5	712.5	712.5
2.5°	708.4	707.5	719.2	707.5	714.2	709.2
5°	716.7	720.1	722.6	727.6	715.9	727.6
7.5°	741.8	745.2	746.0	750.2	745.2	744.3
10°	761.0	769.4	774.4	757.7	767.7	766.9
12.5°	798.7	790.3	789.5	786.1	776.9	773.6
15°	825.4	812.9	805.4	792.0	781.1	776.9
17.5°	863.1	838.8	807.9	780.3	761.0	746.0
20°	886.5	843.0	781.1	748.5	719.2	725.9
22.5°	901.5	838.8	756.9	715.0	685.8	694.1
25°	906.6	817.9	740.1	688.3	659.9	654.0
27.5°	892.3	793.7	707.5	649.0	623.9	628.9
30°	885.7	758.5	677.4	619.7	586.3	591.3
32.5°	868.1	722.6	637.3	578.7	554.5	546.1
35°	843.0	692.5	598.8	543.6	514.3	507.6
37.5°	812.1	654.8	565.3	498.4	472.5	467.5
40°	766.1	609.7	516.8	459.1	429.0	428.2
42.5°	725.9	566.2	471.7	412.3	382.2	383.9
45°	674.9	507.6	419.8	368.8	338.7	340.4
47.5°	609.7	453.3	370.5	313.6	288.5	286.9
50°	532.7	391.4	310.3	261.8	240.9	236.7
52.5°	459.1	328.7	254.2	210.8	193.2	191.5
55°	366.3	255.9	198.2	165.6	152.2	153.0
56°	332.9	235.8	180.6	151.4	141.3	141.3
57°	301.1	209.1	163.9	139.7	130.5	130.5
58°	265.9	184.0	148.9	126.3	122.1	118.8
59°	241.7	167.3	134.6	119.6	112.9	112.1
60°	213.3	150.5	125.4	112.1	107.0	106.2
61°	189.0	135.5	115.4	104.5	102.9	102.9
62°	168.9	125.4	107.0	101.2	100.4	97.8
63°	151.4	115.4	102.9	96.2	93.7	96.2
64°	135.5	106.2	99.5	94.5	91.2	92.8
65°	122.9	102.0	95.3	92.0	88.6	89.5
66°	114.6	95.3	92.0	87.8	86.1	87.0
67°	103.7	92.0	88.6	84.5	83.6	84.5
67.5°	100.4	89.5	87.0	82.8	82.0	82.8
68°	97.8	87.8	86.1	82.0	81.1	80.3
69°	91.2	84.5	82.0	80.3	78.6	77.8
70°	85.3	81.1	79.4	76.9	75.3	74.4
71°	82.0	76.9	76.1	73.6	71.9	71.1
72°	77.8	74.4	72.8	69.4	68.6	69.4
72.5°	76.9	72.8	71.9	68.6	67.7	67.7
73°	74.4	69.4	70.3	66.9	65.2	66.9
74°	69.4	67.7	66.1	63.6	62.7	62.7
75°	65.2	63.6	61.9	60.2	60.2	60.2



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	55.2	54.4	55.2	51.9	51.0	50.2
80°	44.3	44.3	45.2	42.7	41.0	40.1
82.5°	33.5	34.3	36.0	33.5	31.8	30.1
85°	21.7	22.6	22.6	20.1	23.4	21.7
87.5°	10.9	11.7	10.9	10.0	11.7	11.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)