

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: P676187

Luminaire Tested: **CCW-SA-1C-835-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676187
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-835-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T1 distribution lens
Light Source: (16) 3500K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 3627.8 lumens
Efficiency: N/A
Efficacy: 113.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

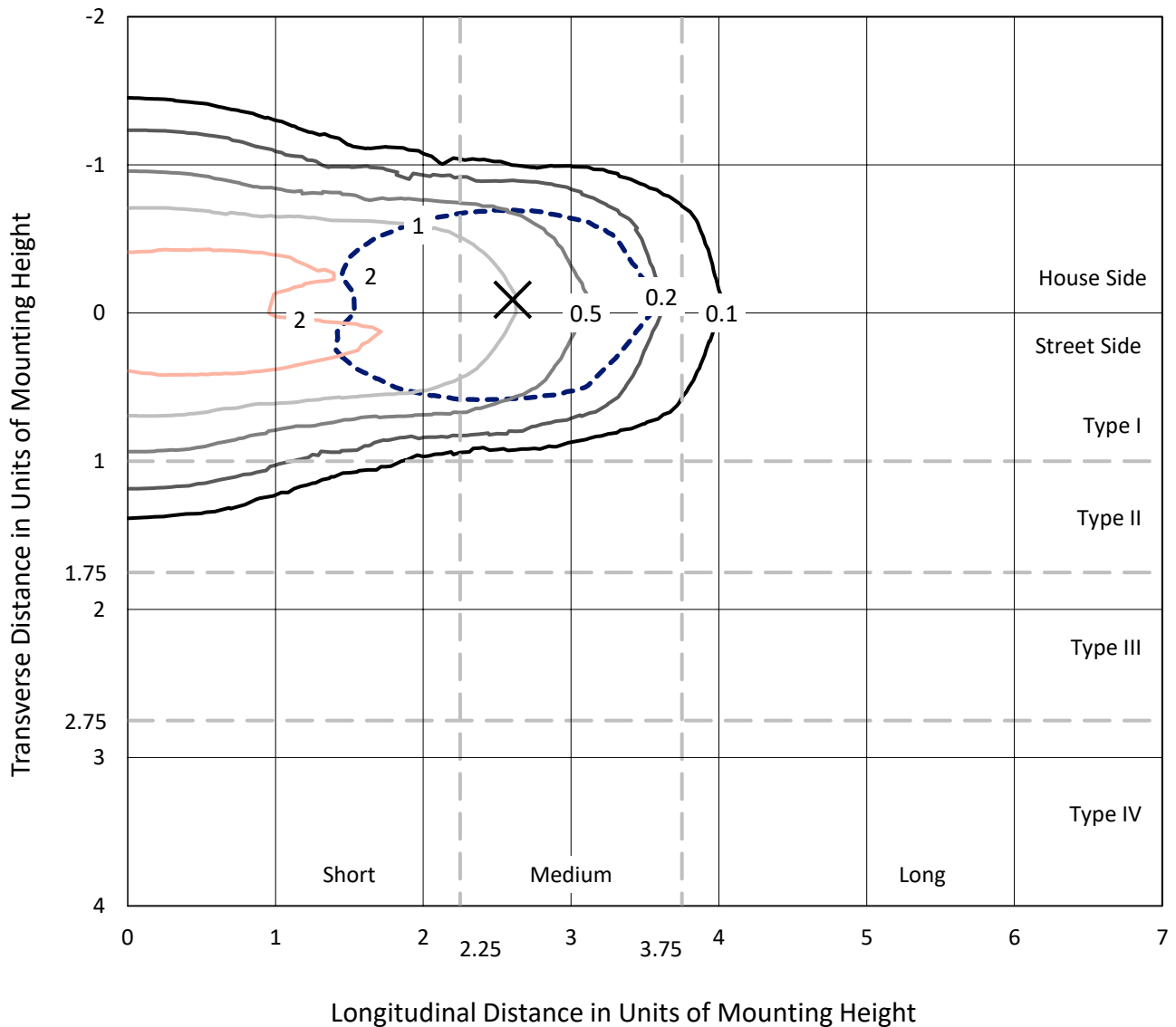
Input Watts (W): 32
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

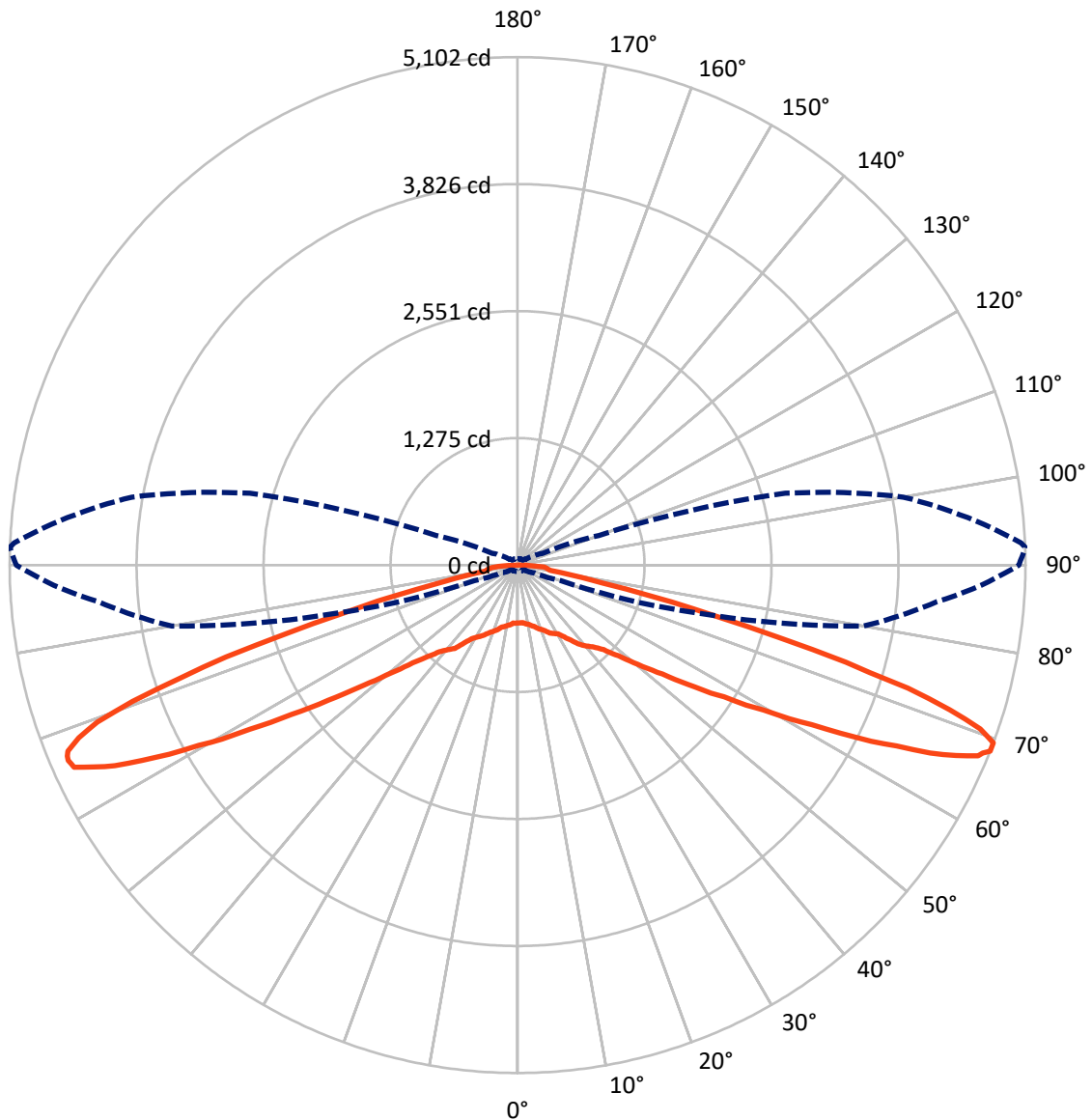
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.8 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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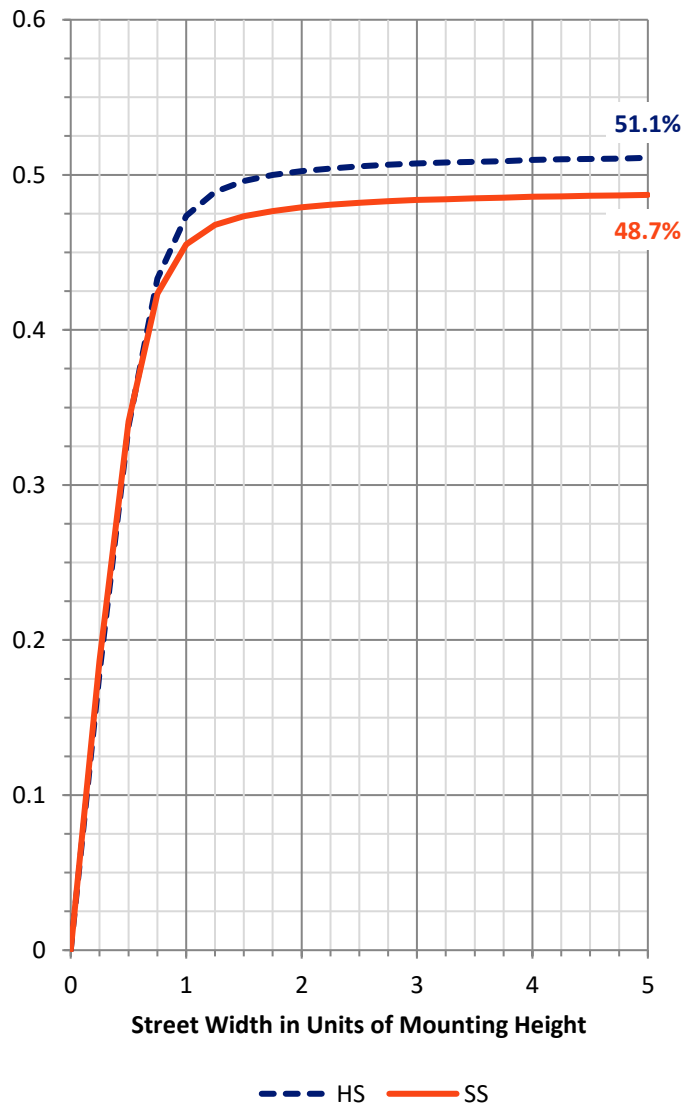
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1868.3	0.0	1868.3
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1759.6	0.0	1759.6
	% Fixture	48.5	0.0	48.5
Total	Lumens	3627.8	0.0	3627.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	58.1	1.6
10°-20°	188.2	5.2
20°-30°	321.2	8.9
30°-40°	448.4	12.4
40°-50°	570.4	15.7
50°-60°	721.3	19.9
60°-70°	889.5	24.5
70°-80°	388.6	10.7
80°-90°	42.1	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°	3627.8	100.0
0°-180°	3627.8	100.0



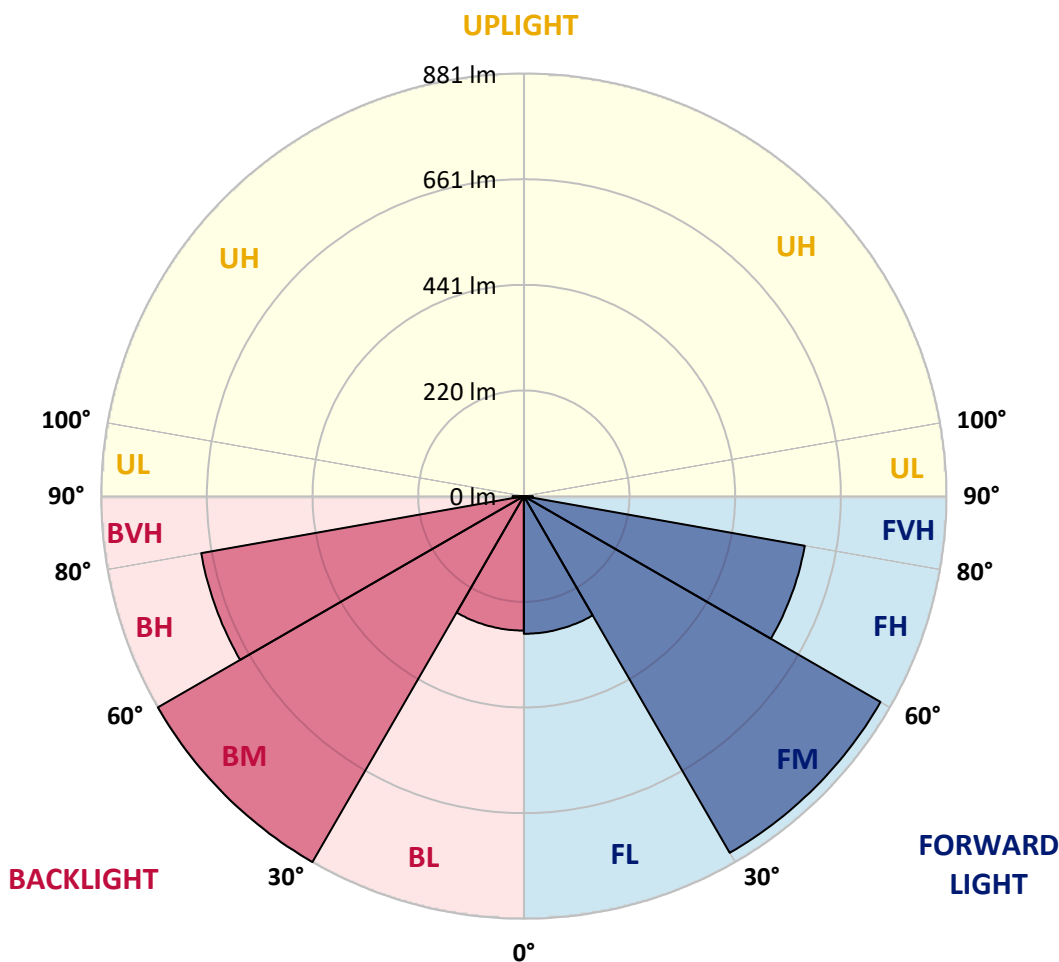
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	287.1	7.9			
FM (30°-60°)	858.9	23.7			
FH (60°-80°)	594.9	16.4			G0/660
FVH (80°-90°)	18.7	0.5			G1/100
BL (0°-30°)	280.4	7.7	B1/500		
BM (30°-60°)	881.3	24.3	B1/1000		
BH (60°-80°)	683.2	18.8	B2/1000		G2/1000
BVH (80°-90°)	23.5	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°	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1
2.5°	592.4	591.7	593.7	595.1	589.0	591.0	589.7	588.3	583.5	581.5	577.4
5°	608.7	610.8	617.6	611.4	614.2	610.8	599.9	603.3	597.1	595.8	591.7
7.5°	637.3	633.2	642.8	636.0	638.0	631.2	626.4	620.3	618.9	609.4	610.1
10°	643.4	651.6	655.7	654.3	655.7	659.1	650.3	640.7	627.8	625.1	615.5
12.5°	639.4	646.8	657.7	666.6	672.7	674.1	670.7	668.6	663.2	647.5	646.8
15°	635.3	629.8	636.6	667.3	687.7	701.3	706.1	694.5	695.9	675.4	667.3
17.5°	608.0	599.9	626.4	656.4	681.6	711.5	734.7	731.3	731.3	714.9	703.4
20°	571.9	585.6	599.2	637.3	683.6	728.6	772.8	770.8	762.6	757.8	732.6
22.5°	541.3	547.4	572.6	612.8	670.7	733.3	785.7	823.2	804.1	785.1	770.1
25°	520.2	514.8	546.8	588.3	658.4	725.2	810.3	849.1	859.3	845.0	816.4
27.5°	490.2	490.2	515.4	554.9	618.9	721.1	834.1	893.3	908.3	887.2	845.7
30°	456.2	460.3	482.1	527.0	589.7	691.1	843.6	944.4	956.7	938.3	895.4
32.5°	429.6	429.6	454.2	501.8	569.2	677.5	837.5	994.8	1017.9	1004.3	960.1
35°	401.0	399.0	416.7	469.1	536.5	650.9	835.5	1035.0	1086.7	1087.4	1041.1
37.5°	360.2	368.4	390.8	432.4	510.7	625.1	829.3	1083.3	1175.9	1191.6	1159.6
40°	333.0	336.4	356.8	402.4	470.5	594.4	820.5	1122.8	1235.1	1288.9	1244.7
42.5°	293.5	298.2	313.9	370.4	431.7	550.8	781.7	1150.7	1319.6	1380.8	1343.4
45°	251.9	254.7	277.8	324.1	390.2	499.1	740.1	1195.6	1401.3	1526.6	1504.8
47.5°	202.2	203.6	223.3	271.7	340.4	447.3	676.1	1193.6	1467.3	1672.3	1733.6
50°	158.0	161.4	176.4	215.8	280.5	384.0	601.9	1177.3	1550.4	1838.4	1958.9
52.5°	126.0	126.6	136.2	167.5	216.5	320.7	522.2	1125.5	1628.7	2001.1	2235.4
55°	104.2	104.2	109.6	128.7	166.1	243.8	429.0	1039.7	1638.2	2180.9	2537.0
56°	100.1	98.7	103.5	119.8	149.8	219.9	385.4	981.8	1651.8	2264.0	2688.2
57°	94.6	95.3	98.0	109.6	134.8	194.7	337.0	925.3	1642.3	2332.1	2799.8
58°	91.9	90.6	96.0	103.5	119.2	172.9	303.7	858.6	1627.3	2387.9	2962.6
59°	87.8	87.2	90.6	97.4	111.0	153.9	262.8	786.4	1598.1	2460.1	3083.8
60°	86.5	85.8	87.2	92.6	102.1	134.8	231.5	702.0	1519.8	2534.3	3234.2
61°	82.4	83.1	85.8	89.2	96.7	121.2	208.4	615.5	1468.7	2596.9	3400.4
62°	83.1	81.7	83.1	85.8	91.2	111.7	182.5	530.4	1377.4	2667.7	3525.0
63°	79.0	78.3	80.3	83.7	86.5	100.8	159.3	458.2	1273.9	2684.1	3630.5
64°	77.6	76.9	77.6	82.4	83.1	94.6	140.9	391.5	1124.2	2712.0	3766.0
65°	74.2	74.2	75.6	77.6	80.3	89.2	126.0	339.8	975.0	2638.5	3807.5
66°	71.5	72.2	72.2	75.6	77.6	83.1	115.8	288.7	832.1	2521.3	3847.7
67°	69.5	69.5	70.1	72.9	74.9	78.3	104.2	249.9	702.0	2381.8	3785.8
67.5°	68.1	68.8	68.8	71.5	73.5	78.3	99.4	237.0	627.8	2228.6	3739.5
68°	66.0	66.7	66.7	69.5	71.5	75.6	96.0	216.5	578.8	2129.1	3653.7
69°	64.7	64.0	64.0	66.7	69.5	72.2	89.2	189.3	460.3	1851.3	3528.4
70°	60.6	60.6	62.0	64.0	66.0	68.8	82.4	166.8	389.5	1532.7	3205.6
71°	58.6	57.9	58.6	60.6	62.6	66.0	75.6	147.8	318.7	1272.6	2888.3
72°	54.5	55.8	55.8	57.9	59.9	62.0	70.8	128.7	267.6	1017.3	2539.0
72.5°	53.8	53.8	54.5	56.5	57.9	61.3	68.1	123.2	244.4	896.7	2392.7
73°	51.7	51.7	52.4	54.5	55.8	59.2	66.0	111.0	222.7	798.0	2118.9
74°	49.7	49.0	49.0	51.7	52.4	55.8	62.0	98.0	186.6	601.2	1700.9
75°	46.3	46.3	47.0	48.3	49.0	51.7	57.2	87.2	157.3	466.4	1330.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	38.1	38.8	39.5	40.9	40.9	42.9	47.0	60.6	96.0	236.3	610.8
80°	27.9	29.3	31.3	33.4	32.7	32.7	36.8	43.6	57.2	106.2	234.2
82.5°	22.5	23.8	21.8	24.5	24.5	23.2	26.6	32.0	38.8	52.4	83.7
85°	15.0	15.7	12.9	15.0	14.3	14.3	17.7	19.1	23.8	29.3	41.5
87.5°	6.8	6.8	5.4	6.1	6.1	6.1	8.9	6.8	10.2	14.3	24.5
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1	580.1
2.5°	581.5	584.2	584.2	581.5	579.4	581.5	580.1	576.7	580.1	581.5	582.2
5°	589.7	584.2	586.9	580.8	584.9	584.2	582.8	586.2	586.9	586.9	591.7
7.5°	598.5	605.3	596.5	597.1	599.2	591.0	593.7	595.1	592.4	597.8	601.9
10°	614.2	616.9	614.2	604.0	610.8	605.3	603.3	609.4	608.0	609.4	615.5
12.5°	628.5	633.2	625.7	625.1	621.7	616.9	619.6	618.9	628.5	629.8	637.3
15°	657.7	645.5	642.8	642.1	640.7	638.7	640.0	640.7	653.0	655.0	672.7
17.5°	682.9	680.9	665.9	671.4	671.4	663.2	659.8	671.4	680.9	691.1	703.4
20°	708.8	706.8	690.4	691.1	685.0	692.5	688.4	699.3	715.6	719.0	729.9
22.5°	739.4	730.6	719.0	720.4	722.4	717.0	714.3	729.2	745.6	755.1	755.8
25°	787.8	765.3	755.8	757.2	754.4	750.3	752.4	771.5	779.6	800.0	796.0
27.5°	813.7	800.7	793.9	778.3	778.9	772.8	781.0	809.6	825.9	841.6	810.3
30°	845.0	836.8	806.9	801.4	800.7	798.0	813.0	849.8	874.3	883.1	838.2
32.5°	906.3	873.6	866.1	861.3	850.4	853.8	861.3	909.7	948.5	946.4	864.1
35°	976.4	953.9	932.8	928.7	927.4	917.8	930.8	987.3	1017.3	1008.4	873.6
37.5°	1088.7	1054.7	1026.1	1010.4	1007.7	1000.9	1031.6	1076.5	1115.3	1080.6	881.1
40°	1143.9	1105.8	1079.2	1069.7	1071.7	1081.3	1111.2	1180.0	1197.0	1133.0	887.2
42.5°	1222.9	1181.3	1128.9	1124.2	1118.0	1122.8	1180.7	1273.3	1287.6	1203.8	864.1
45°	1363.1	1300.5	1239.9	1212.7	1214.0	1227.0	1316.8	1418.3	1391.7	1252.8	827.3
47.5°	1540.2	1448.3	1399.2	1362.5	1380.2	1365.9	1508.9	1589.9	1499.3	1314.8	782.3
50°	1806.4	1677.7	1611.0	1566.7	1574.2	1586.5	1731.5	1800.3	1618.5	1344.8	713.6
52.5°	2142.1	1976.6	1878.6	1819.3	1824.8	1851.3	2038.6	2017.5	1754.7	1370.0	621.7
55°	2543.8	2373.6	2183.6	2159.1	2153.0	2216.3	2422.6	2244.9	1877.2	1329.8	526.3
56°	2756.3	2575.1	2377.7	2327.3	2312.3	2356.6	2599.0	2358.6	1919.4	1284.8	480.7
57°	2936.7	2763.7	2547.2	2461.4	2480.5	2563.6	2774.0	2465.5	1958.2	1238.5	437.8
58°	3184.5	2987.1	2758.3	2692.9	2675.9	2742.0	2962.6	2573.1	1971.2	1190.9	398.3
59°	3431.7	3194.7	2988.4	2869.3	2874.0	2994.6	3148.4	2701.1	1990.9	1130.3	347.9
60°	3619.6	3500.5	3224.7	3135.5	3123.3	3297.6	3333.6	2786.9	2012.0	1048.6	312.5
61°	3885.9	3730.6	3473.9	3358.8	3392.2	3531.8	3533.8	2894.5	1980.7	945.1	269.0
62°	4077.2	4036.3	3766.7	3657.1	3646.9	3832.1	3742.2	2989.1	1953.5	847.0	237.6
63°	4301.2	4301.2	4055.4	3969.6	3974.4	4120.8	3832.7	3083.8	1922.2	738.8	209.0
64°	4417.6	4564.0	4337.3	4216.8	4248.1	4374.7	3994.1	3145.7	1825.5	629.1	183.8
65°	4518.4	4738.3	4612.4	4556.5	4508.9	4583.8	4133.7	3203.6	1677.7	535.2	163.4
66°	4603.5	4902.4	4860.9	4801.0	4796.2	4779.2	4160.9	3201.6	1525.2	452.1	143.0
67°	4560.6	4905.8	4981.4	5006.6	4999.1	4819.4	4113.3	3128.7	1329.8	382.0	127.3
67.5°	4521.8	4877.9	5053.6	5039.3	5070.6	4853.4	4121.4	3039.5	1190.9	345.9	119.8
68°	4487.8	4840.5	5082.9	5101.2	5085.6	4857.5	4076.5	2968.7	1096.2	324.8	113.0
69°	4229.7	4662.7	5035.9	5101.9	5061.8	4701.6	3933.5	2784.2	870.9	277.1	104.2
70°	3971.0	4432.6	4807.8	4929.0	4879.3	4399.9	3753.1	2490.7	718.3	237.0	94.0
71°	3612.8	4005.0	4504.1	4577.0	4517.0	4056.8	3379.9	2180.9	559.0	200.9	83.7
72°	3126.7	3459.6	3936.2	4112.6	4024.1	3563.1	3002.7	1802.3	452.8	168.9	76.3
72.5°	2885.6	3226.7	3686.4	3700.6	3717.7	3348.6	2842.7	1583.1	394.9	156.6	74.2
73°	2656.8	2991.2	3388.8	3439.2	3367.0	2987.1	2603.7	1415.6	360.9	143.0	71.5
74°	2153.0	2343.6	2673.2	2722.2	2658.9	2435.6	2127.8	1085.3	287.3	123.2	65.4
75°	1694.1	1798.9	2097.1	2067.2	1972.5	1894.2	1649.8	829.3	232.9	108.3	60.6



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	761.2	824.6	874.3	874.3	879.7	839.5	760.6	380.6	143.7	78.3	49.7
80°	290.1	324.8	335.7	336.4	341.1	353.4	328.9	187.2	85.1	55.8	40.2
82.5°	210.4	294.1	316.6	300.3	301.6	272.4	126.0	83.1	53.8	38.8	29.3
85°	190.6	256.0	271.0	269.0	269.6	251.9	74.2	40.9	31.3	24.5	20.4
87.5°	92.6	90.6	96.0	108.3	105.5	136.9	62.6	20.4	13.6	10.2	10.2
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°	580.1	580.1	580.1	580.1	580.1	580.1
2.5°	576.7	576.0	585.6	576.0	581.5	577.4
5°	583.5	586.2	588.3	592.4	582.8	592.4
7.5°	604.0	606.7	607.4	610.8	606.7	606.0
10°	619.6	626.4	630.5	616.9	625.1	624.4
12.5°	650.3	643.4	642.8	640.0	632.5	629.8
15°	672.0	661.8	655.7	644.8	636.0	632.5
17.5°	702.7	682.9	657.7	635.3	619.6	607.4
20°	721.7	686.3	636.0	609.4	585.6	591.0
22.5°	734.0	682.9	616.2	582.2	558.3	565.1
25°	738.1	665.9	602.6	560.4	537.2	532.5
27.5°	726.5	646.2	576.0	528.4	507.9	512.0
30°	721.1	617.6	551.5	504.5	477.3	481.4
32.5°	706.8	588.3	518.8	471.2	451.4	444.6
35°	686.3	563.8	487.5	442.6	418.7	413.3
37.5°	661.1	533.1	460.3	405.8	384.7	380.6
40°	623.7	496.4	420.8	373.8	349.3	348.6
42.5°	591.0	461.0	384.0	335.7	311.2	312.5
45°	549.5	413.3	341.8	300.3	275.8	277.1
47.5°	496.4	369.0	301.6	255.3	234.9	233.5
50°	433.7	318.7	252.6	213.1	196.1	192.7
52.5°	373.8	267.6	207.0	171.6	157.3	155.9
55°	298.2	208.4	161.4	134.8	123.9	124.6
56°	271.0	192.0	147.1	123.2	115.1	115.1
57°	245.1	170.2	133.5	113.7	106.2	106.2
58°	216.5	149.8	121.2	102.8	99.4	96.7
59°	196.8	136.2	109.6	97.4	91.9	91.2
60°	173.6	122.6	102.1	91.2	87.2	86.5
61°	153.9	110.3	94.0	85.1	83.7	83.7
62°	137.5	102.1	87.2	82.4	81.7	79.7
63°	123.2	94.0	83.7	78.3	76.3	78.3
64°	110.3	86.5	81.0	76.9	74.2	75.6
65°	100.1	83.1	77.6	74.9	72.2	72.9
66°	93.3	77.6	74.9	71.5	70.1	70.8
67°	84.4	74.9	72.2	68.8	68.1	68.8
67.5°	81.7	72.9	70.8	67.4	66.7	67.4
68°	79.7	71.5	70.1	66.7	66.0	65.4
69°	74.2	68.8	66.7	65.4	64.0	63.3
70°	69.5	66.0	64.7	62.6	61.3	60.6
71°	66.7	62.6	62.0	59.9	58.6	57.9
72°	63.3	60.6	59.2	56.5	55.8	56.5
72.5°	62.6	59.2	58.6	55.8	55.2	55.2
73°	60.6	56.5	57.2	54.5	53.1	54.5
74°	56.5	55.2	53.8	51.7	51.1	51.1
75°	53.1	51.7	50.4	49.0	49.0	49.0



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	44.9	44.3	44.9	42.2	41.5	40.9
80°	36.1	36.1	36.8	34.7	33.4	32.7
82.5°	27.2	27.9	29.3	27.2	25.9	24.5
85°	17.7	18.4	18.4	16.3	19.1	17.7
87.5°	8.9	9.5	8.9	8.2	9.5	9.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)