

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: P676099

Luminaire Tested: **CCW-SA-1C-727-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676099
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-727-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T1 distribution lens
Light Source: (16) 2700K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

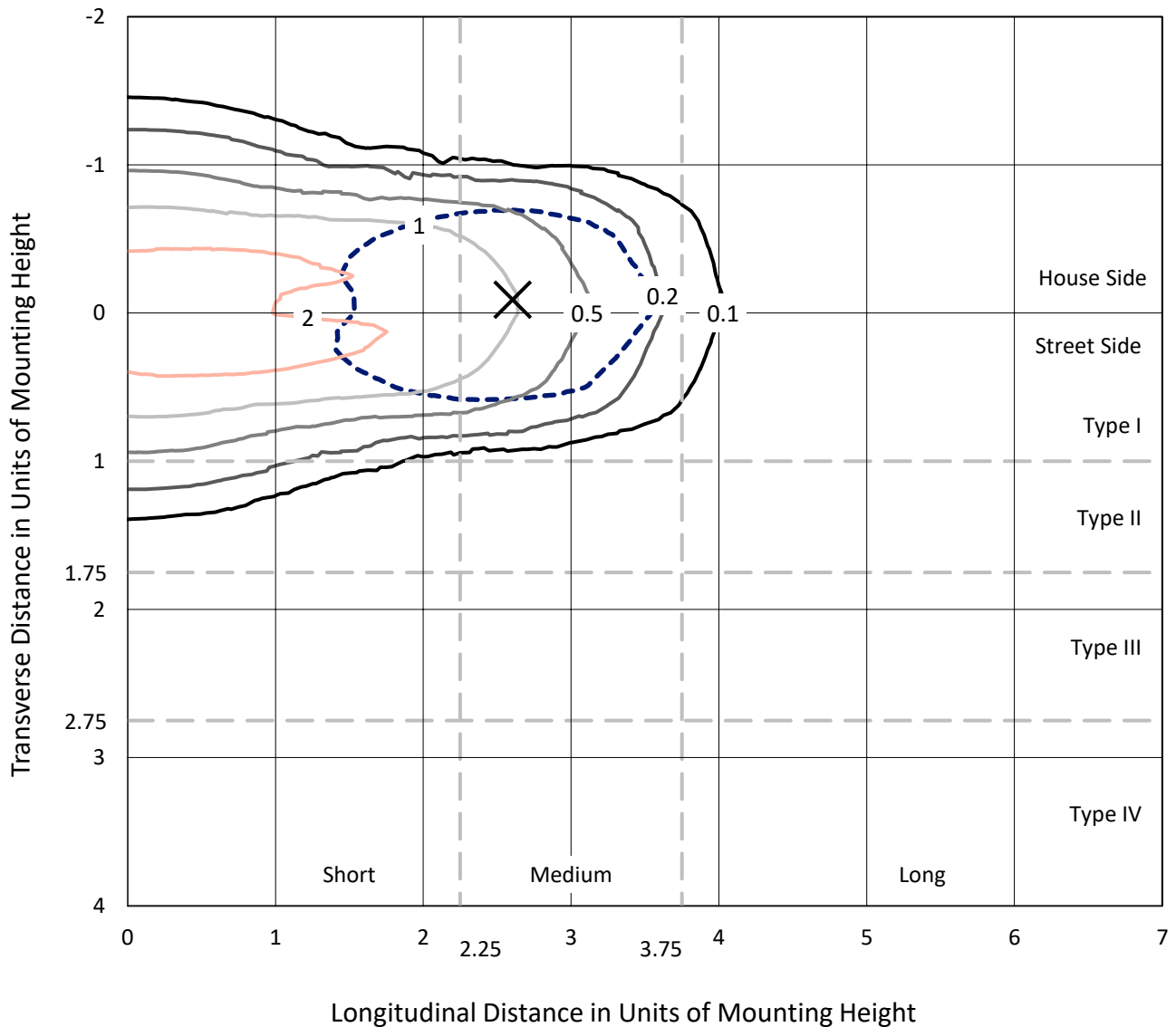
Lumens per Lamp: N/A
Luminaire Lumens: 3682 lumens
Efficiency: N/A
Efficacy: 115.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

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

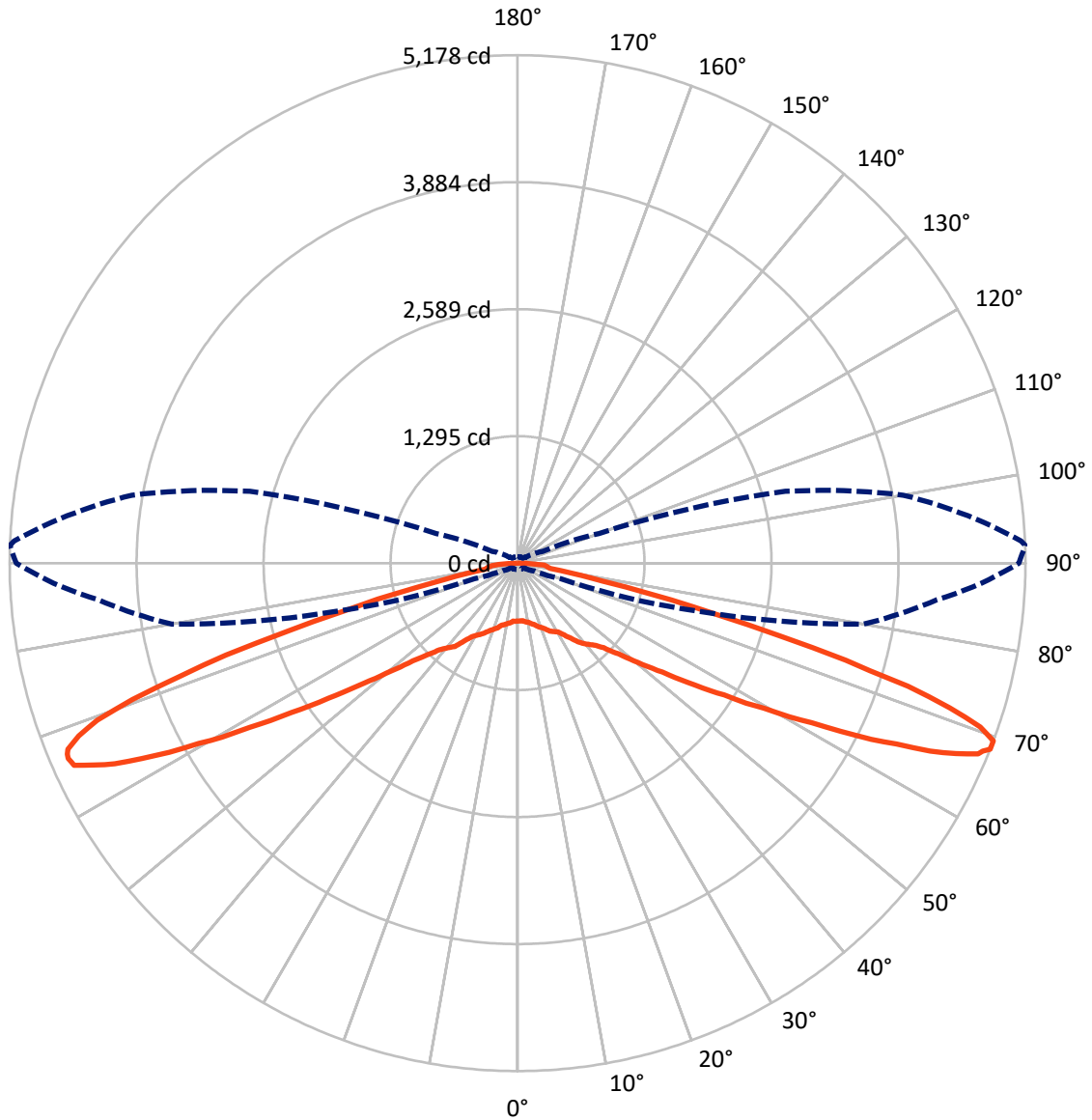
× Max cd
 - - - 1/2 Max cd



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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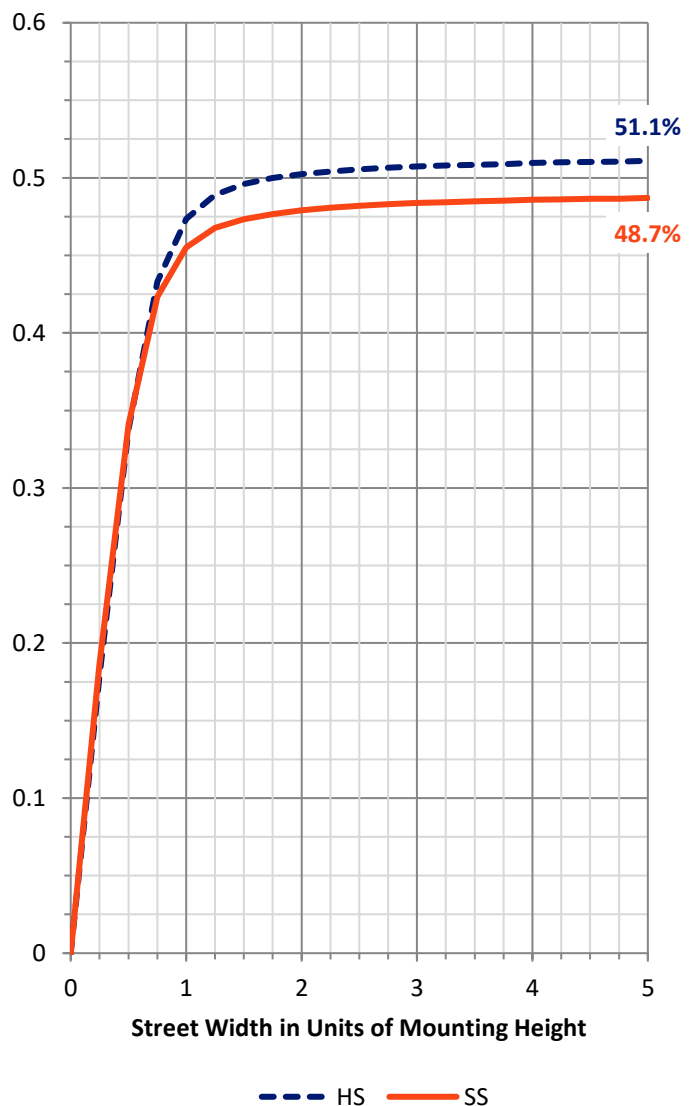
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1896.2	0.0	1896.2
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1785.8	0.0	1785.8
	% Fixture	48.5	0.0	48.5
Total	Lumens	3682.0	0.0	3682.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	59.0	1.6
10°-20°	191.0	5.2
20°-30°	326.0	8.9
30°-40°	455.1	12.4
40°-50°	578.9	15.7
50°-60°	732.0	19.9
60°-70°	902.8	24.5
70°-80°	394.4	10.7
80°-90°	42.8	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°	3682.0	100.0
0°-180°	3682.0	100.0



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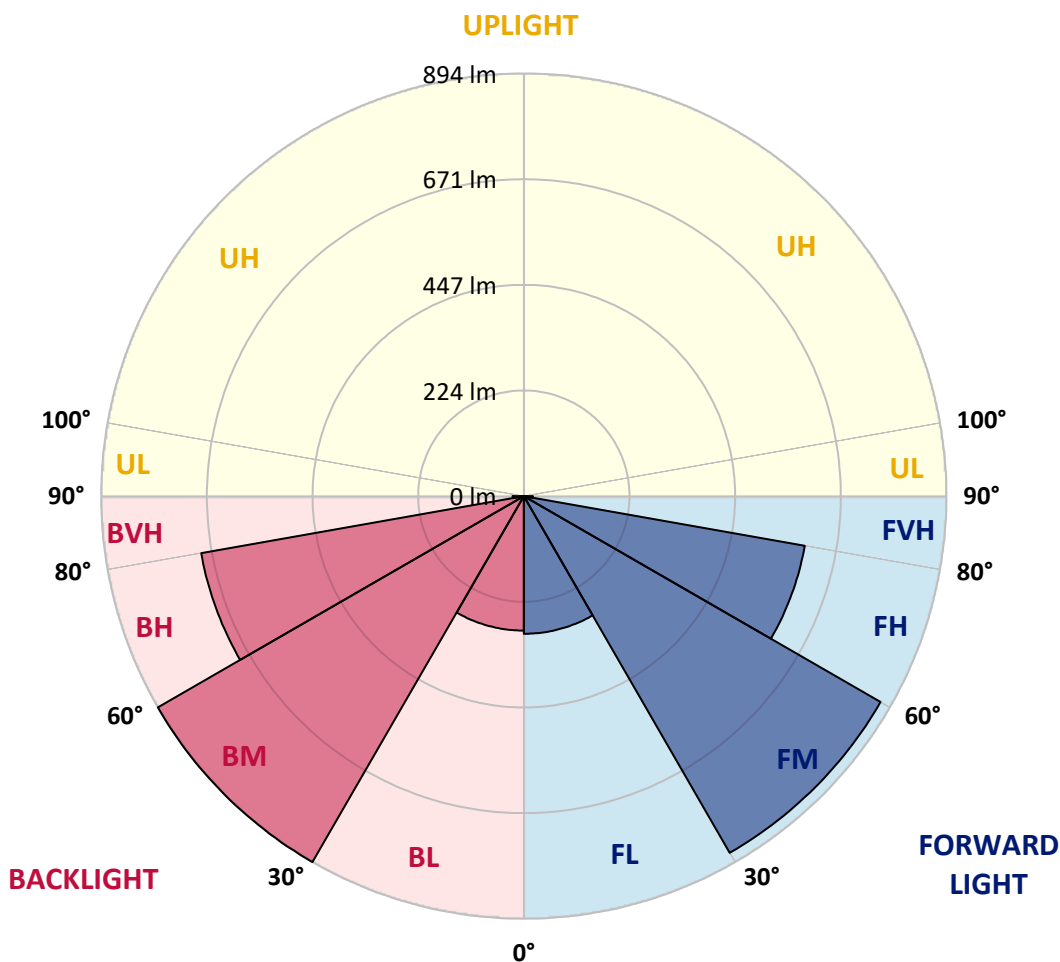
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	291.4	7.9			
FM (30°-60°)	871.7	23.7			
FH (60°-80°)	603.8	16.4			G0/660
FVH (80°-90°)	19.0	0.5			G1/100
BL (0°-30°)	284.6	7.7	B1/500		
BM (30°-60°)	894.4	24.3	B1/1000		
BH (60°-80°)	693.4	18.8	B2/1000		G2/1000
BVH (80°-90°)	23.8	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°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	601.2	600.5	602.6	604.0	597.8	599.8	598.5	597.1	592.2	590.2	586.0
5°	617.8	619.9	626.8	620.6	623.3	619.9	608.8	612.3	606.1	604.7	600.5
7.5°	646.8	642.7	652.4	645.4	647.5	640.6	635.8	629.6	628.2	618.5	619.2
10°	653.0	661.3	665.5	664.1	665.5	668.9	660.0	650.3	637.2	634.4	624.7
12.5°	648.9	656.5	667.6	676.5	682.8	684.1	680.7	678.6	673.1	657.2	656.5
15°	644.8	639.2	646.1	677.2	698.0	711.8	716.6	704.9	706.3	685.5	677.2
17.5°	617.1	608.8	635.8	666.2	691.7	722.2	745.6	742.2	742.2	725.6	713.9
20°	580.5	594.3	608.1	646.8	693.8	739.4	784.3	782.3	774.0	769.1	743.6
22.5°	549.4	555.6	581.2	622.0	680.7	744.3	797.5	835.5	816.1	796.8	781.6
25°	528.0	522.4	554.9	597.1	668.3	736.0	822.4	861.7	872.1	857.6	828.6
27.5°	497.6	497.6	523.1	563.2	628.2	731.8	846.5	906.7	921.9	900.4	858.3
30°	463.0	467.2	489.3	534.9	598.5	701.4	856.2	958.5	970.9	952.3	908.7
32.5°	436.1	436.1	460.9	509.3	577.7	687.6	850.0	1009.6	1033.1	1019.3	974.4
35°	407.0	405.0	422.9	476.1	544.6	660.6	847.9	1050.4	1102.9	1103.6	1056.6
37.5°	365.6	373.9	396.7	438.8	518.3	634.4	841.7	1099.5	1193.5	1209.3	1176.9
40°	337.9	341.4	362.1	408.4	477.5	603.3	832.7	1139.6	1253.6	1308.2	1263.3
42.5°	297.8	302.7	318.6	375.9	438.1	559.1	793.3	1167.9	1339.3	1401.5	1363.5
45°	255.7	258.5	282.0	328.9	396.0	506.5	751.2	1213.5	1422.2	1549.3	1527.2
47.5°	205.2	206.6	226.7	275.7	345.5	454.0	686.2	1211.4	1489.2	1697.2	1759.4
50°	160.3	163.8	179.0	219.1	284.7	389.8	610.9	1194.8	1573.5	1865.9	1988.2
52.5°	127.8	128.5	138.2	170.0	219.8	325.5	530.0	1142.3	1653.0	2031.0	2268.7
55°	105.7	105.7	111.3	130.6	168.6	247.4	435.4	1055.2	1662.7	2213.5	2574.9
56°	101.6	100.2	105.0	121.6	152.0	223.2	391.1	996.5	1676.5	2297.8	2728.3
57°	96.1	96.7	99.5	111.3	136.8	197.6	342.1	939.1	1666.8	2366.9	2841.6
58°	93.3	91.9	97.4	105.0	120.9	175.5	308.2	871.4	1651.6	2423.5	3006.8
59°	89.1	88.5	91.9	98.8	112.6	156.2	266.7	798.2	1621.9	2496.8	3129.8
60°	87.8	87.1	88.5	94.0	103.7	136.8	235.0	712.5	1542.4	2572.1	3282.5
61°	83.6	84.3	87.1	90.5	98.1	123.0	211.5	624.7	1490.6	2635.7	3451.1
62°	84.3	82.9	84.3	87.1	92.6	113.3	185.2	538.3	1398.0	2707.6	3577.6
63°	80.2	79.5	81.5	85.0	87.8	102.3	161.7	465.1	1293.0	2724.1	3684.7
64°	78.8	78.1	78.8	83.6	84.3	96.1	143.0	397.4	1140.9	2752.5	3822.2
65°	75.3	75.3	76.7	78.8	81.5	90.5	127.8	344.8	989.6	2677.8	3864.4
66°	72.6	73.3	73.3	76.7	78.8	84.3	117.5	293.0	844.5	2559.0	3905.2
67°	70.5	70.5	71.2	73.9	76.0	79.5	105.7	253.6	712.5	2417.3	3842.3
67.5°	69.1	69.8	69.8	72.6	74.6	79.5	100.9	240.5	637.2	2261.8	3795.3
68°	67.0	67.7	67.7	70.5	72.6	76.7	97.4	219.8	587.4	2160.9	3708.2
69°	65.7	65.0	65.0	67.7	70.5	73.3	90.5	192.1	467.2	1879.0	3581.1
70°	61.5	61.5	62.9	65.0	67.0	69.8	83.6	169.3	395.3	1555.6	3253.5
71°	59.4	58.7	59.4	61.5	63.6	67.0	76.7	150.0	323.4	1291.6	2931.5
72°	55.3	56.7	56.7	58.7	60.8	62.9	71.9	130.6	271.6	1032.4	2576.9
72.5°	54.6	54.6	55.3	57.4	58.7	62.2	69.1	125.1	248.1	910.1	2428.4
73°	52.5	52.5	53.2	55.3	56.7	60.1	67.0	112.6	226.0	809.9	2150.6
74°	50.4	49.8	49.8	52.5	53.2	56.7	62.9	99.5	189.3	610.2	1726.3
75°	47.0	47.0	47.7	49.1	49.8	52.5	58.0	88.5	159.6	473.4	1350.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	38.7	39.4	40.1	41.5	41.5	43.5	47.7	61.5	97.4	239.8	619.9
80°	28.3	29.7	31.8	33.9	33.2	33.2	37.3	44.2	58.0	107.8	237.7
82.5°	22.8	24.2	22.1	24.9	24.9	23.5	27.0	32.5	39.4	53.2	85.0
85°	15.2	15.9	13.1	15.2	14.5	14.5	18.0	19.3	24.2	29.7	42.2
87.5°	6.9	6.9	5.5	6.2	6.2	6.2	9.0	6.9	10.4	14.5	24.9
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	590.2	592.9	592.9	590.2	588.1	590.2	588.8	585.3	588.8	590.2	590.9
5°	598.5	592.9	595.7	589.5	593.6	592.9	591.5	595.0	595.7	595.7	600.5
7.5°	607.4	614.3	605.4	606.1	608.1	599.8	602.6	604.0	601.2	606.7	610.9
10°	623.3	626.1	623.3	613.0	619.9	614.3	612.3	618.5	617.1	618.5	624.7
12.5°	637.8	642.7	635.1	634.4	630.9	626.1	628.9	628.2	637.8	639.2	646.8
15°	667.6	655.1	652.4	651.7	650.3	648.2	649.6	650.3	662.7	664.8	682.8
17.5°	693.1	691.1	675.9	681.4	681.4	673.1	669.6	681.4	691.1	701.4	713.9
20°	719.4	717.3	700.7	701.4	695.2	702.8	698.7	709.7	726.3	729.8	740.8
22.5°	750.5	741.5	729.8	731.1	733.2	727.7	724.9	740.1	756.7	766.4	767.1
25°	799.6	776.7	767.1	768.5	765.7	761.5	763.6	783.0	791.3	812.0	807.8
27.5°	825.8	812.7	805.8	789.9	790.6	784.3	792.6	821.7	838.3	854.1	822.4
30°	857.6	849.3	818.9	813.4	812.7	809.9	825.1	862.4	887.3	896.3	850.7
32.5°	919.8	886.6	879.0	874.2	863.1	866.6	874.2	923.3	962.6	960.6	877.0
35°	991.0	968.2	946.7	942.6	941.2	931.5	944.7	1002.0	1032.4	1023.5	886.6
37.5°	1105.0	1070.4	1041.4	1025.5	1022.8	1015.9	1046.9	1092.6	1131.9	1096.7	894.2
40°	1161.0	1122.3	1095.3	1085.6	1087.7	1097.4	1127.8	1197.6	1214.9	1149.9	900.4
42.5°	1241.1	1199.0	1145.8	1140.9	1134.7	1139.6	1198.3	1292.3	1306.8	1221.8	877.0
45°	1383.5	1319.9	1258.4	1230.8	1232.2	1245.3	1336.5	1439.5	1412.5	1271.5	839.6
47.5°	1563.2	1469.9	1420.1	1382.8	1400.8	1386.3	1531.4	1613.6	1521.7	1334.4	794.0
50°	1833.4	1702.8	1635.0	1590.1	1597.7	1610.2	1757.4	1827.2	1642.6	1364.8	724.2
52.5°	2174.1	2006.1	1906.6	1846.5	1852.0	1879.0	2069.0	2047.6	1780.9	1390.4	630.9
55°	2581.8	2409.0	2216.2	2191.3	2185.1	2249.4	2458.8	2278.4	1905.2	1349.6	534.2
56°	2797.4	2613.6	2413.2	2362.0	2346.8	2391.7	2637.8	2393.8	1948.1	1304.0	487.9
57°	2980.5	2805.0	2585.2	2498.2	2517.5	2601.8	2815.4	2502.3	1987.5	1257.0	444.3
58°	3232.1	3031.7	2799.5	2733.1	2715.8	2782.9	3006.8	2611.5	2000.6	1208.7	404.3
59°	3482.9	3242.4	3033.0	2912.1	2916.9	3039.3	3195.4	2741.4	2020.6	1147.2	353.1
60°	3673.7	3552.7	3272.8	3182.3	3169.9	3346.8	3383.4	2828.5	2042.1	1064.2	317.2
61°	3943.9	3786.3	3525.8	3409.0	3442.8	3584.5	3586.6	2937.7	2010.3	959.2	273.0
62°	4138.0	4096.6	3822.9	3711.7	3701.3	3889.3	3798.0	3033.7	1982.6	859.7	241.2
63°	4365.4	4365.4	4115.9	4028.9	4033.7	4182.3	3890.0	3129.8	1950.9	749.8	212.2
64°	4483.6	4632.1	4402.0	4279.7	4311.5	4440.0	4053.7	3192.7	1852.7	638.5	186.6
65°	4585.8	4809.1	4681.2	4624.5	4576.2	4652.2	4195.4	3251.4	1702.8	543.2	165.9
66°	4672.2	4975.6	4933.4	4872.6	4867.8	4850.5	4223.0	3249.3	1548.0	458.9	145.1
67°	4628.7	4979.1	5055.8	5081.3	5073.7	4891.3	4174.7	3175.4	1349.6	387.7	129.2
67.5°	4589.3	4950.7	5129.0	5114.5	5146.3	4925.8	4183.0	3084.9	1208.7	351.1	121.6
68°	4554.7	4912.7	5158.7	5177.4	5161.5	4930.0	4137.4	3013.0	1112.6	329.6	114.7
69°	4292.8	4732.4	5111.0	5178.1	5137.3	4771.7	3992.2	2825.7	883.9	281.3	105.7
70°	4030.2	4498.8	4879.5	5002.6	4952.1	4465.6	3809.1	2527.9	729.1	240.5	95.4
71°	3666.7	4064.8	4571.3	4645.3	4584.5	4117.3	3430.4	2213.5	567.4	203.9	85.0
72°	3173.3	3511.3	3995.0	4174.0	4084.1	3616.3	3047.6	1829.2	459.6	171.4	77.4
72.5°	2928.7	3274.9	3741.4	3755.9	3773.2	3398.6	2885.2	1606.7	400.8	158.9	75.3
73°	2696.5	3035.8	3439.4	3490.5	3417.3	3031.7	2642.6	1436.7	366.3	145.1	72.6
74°	2185.1	2378.6	2713.1	2762.8	2698.6	2471.9	2159.5	1101.5	291.6	125.1	66.3
75°	1719.3	1825.8	2128.5	2098.0	2002.0	1922.5	1674.4	841.7	236.3	109.9	61.5



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	772.6	836.9	887.3	887.3	892.8	852.1	771.9	386.3	145.8	79.5	50.4
80°	294.4	329.6	340.7	341.4	346.2	358.7	333.8	190.0	86.4	56.7	40.8
82.5°	213.5	298.5	321.3	304.8	306.1	276.4	127.8	84.3	54.6	39.4	29.7
85°	193.5	259.8	275.0	273.0	273.7	255.7	75.3	41.5	31.8	24.9	20.7
87.5°	94.0	91.9	97.4	109.9	107.1	138.9	63.6	20.7	13.8	10.4	10.4
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°	588.8	588.8	588.8	588.8	588.8	588.8
2.5°	585.3	584.6	594.3	584.6	590.2	586.0
5°	592.2	595.0	597.1	601.2	591.5	601.2
7.5°	613.0	615.7	616.4	619.9	615.7	615.0
10°	628.9	635.8	639.9	626.1	634.4	633.7
12.5°	660.0	653.0	652.4	649.6	642.0	639.2
15°	682.1	671.7	665.5	654.4	645.4	642.0
17.5°	713.2	693.1	667.6	644.8	628.9	616.4
20°	732.5	696.6	645.4	618.5	594.3	599.8
22.5°	745.0	693.1	625.4	590.9	566.7	573.6
25°	749.1	675.9	611.6	568.7	545.2	540.4
27.5°	737.4	655.8	584.6	536.3	515.5	519.7
30°	731.8	626.8	559.8	512.1	484.4	488.6
32.5°	717.3	597.1	526.6	478.2	458.2	451.3
35°	696.6	572.2	494.8	449.2	425.0	419.5
37.5°	671.0	541.1	467.2	411.9	390.4	386.3
40°	633.0	503.8	427.1	379.4	354.5	353.8
42.5°	599.8	467.8	389.8	340.7	315.8	317.2
45°	557.7	419.5	346.9	304.8	279.9	281.3
47.5°	503.8	374.6	306.1	259.1	238.4	237.0
50°	440.2	323.4	256.4	216.3	199.0	195.6
52.5°	379.4	271.6	210.1	174.1	159.6	158.3
55°	302.7	211.5	163.8	136.8	125.8	126.5
56°	275.0	194.9	149.3	125.1	116.8	116.8
57°	248.8	172.8	135.4	115.4	107.8	107.8
58°	219.8	152.0	123.0	104.3	100.9	98.1
59°	199.7	138.2	111.3	98.8	93.3	92.6
60°	176.2	124.4	103.7	92.6	88.5	87.8
61°	156.2	112.0	95.4	86.4	85.0	85.0
62°	139.6	103.7	88.5	83.6	82.9	80.9
63°	125.1	95.4	85.0	79.5	77.4	79.5
64°	112.0	87.8	82.2	78.1	75.3	76.7
65°	101.6	84.3	78.8	76.0	73.3	73.9
66°	94.7	78.8	76.0	72.6	71.2	71.9
67°	85.7	76.0	73.3	69.8	69.1	69.8
67.5°	82.9	73.9	71.9	68.4	67.7	68.4
68°	80.9	72.6	71.2	67.7	67.0	66.3
69°	75.3	69.8	67.7	66.3	65.0	64.3
70°	70.5	67.0	65.7	63.6	62.2	61.5
71°	67.7	63.6	62.9	60.8	59.4	58.7
72°	64.3	61.5	60.1	57.4	56.7	57.4
72.5°	63.6	60.1	59.4	56.7	56.0	56.0
73°	61.5	57.4	58.0	55.3	53.9	55.3
74°	57.4	56.0	54.6	52.5	51.8	51.8
75°	53.9	52.5	51.1	49.8	49.8	49.8



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	45.6	44.9	45.6	42.8	42.2	41.5
80°	36.6	36.6	37.3	35.2	33.9	33.2
82.5°	27.6	28.3	29.7	27.6	26.3	24.9
85°	18.0	18.7	18.7	16.6	19.3	18.0
87.5°	9.0	9.7	9.0	8.3	9.7	9.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)