

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: P676086

Luminaire Tested: **CCW-SA-1A-722-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676086
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1A-722-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

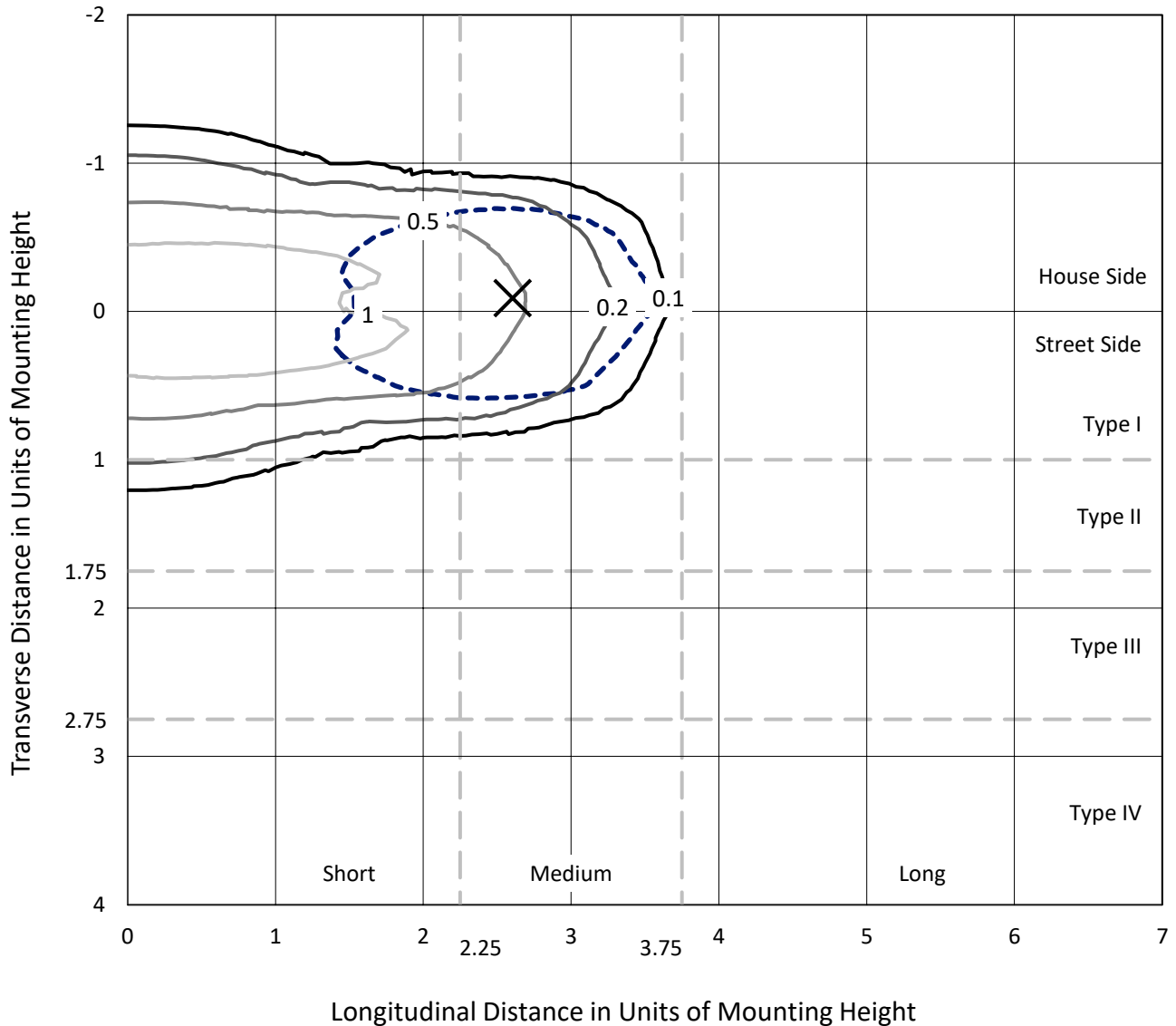
Lumens per Lamp: N/A
Luminaire Lumens: 1962.4 lumens
Efficiency: N/A
Efficacy: 109.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 18
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

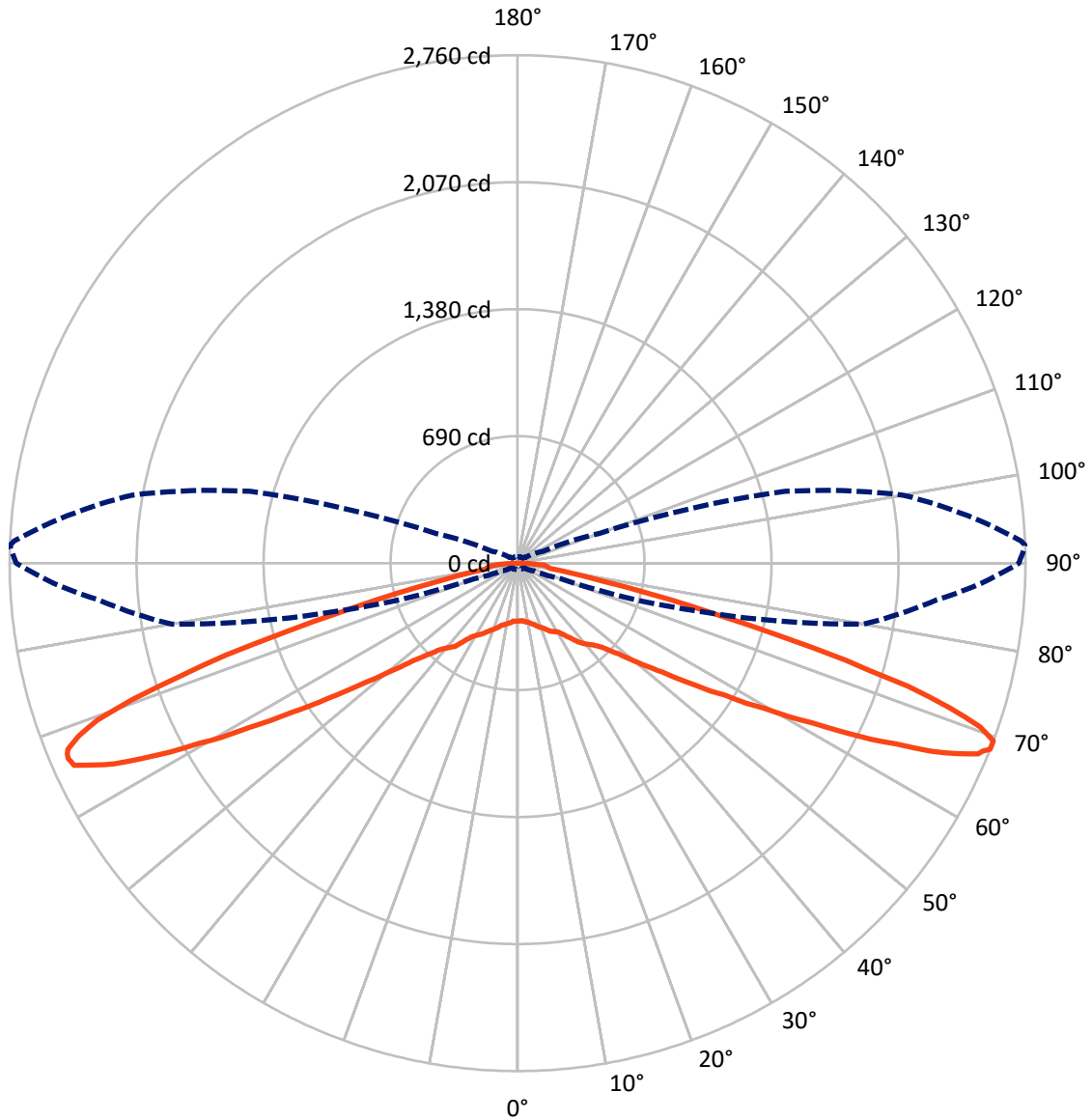
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.5 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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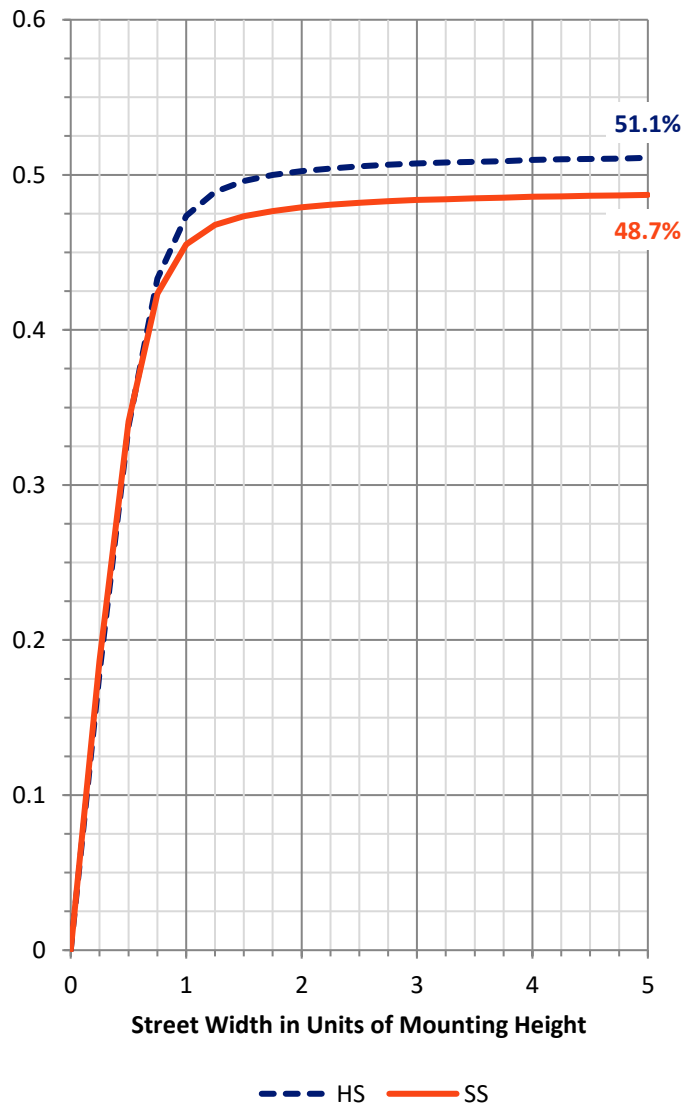
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1010.6	0.0	1010.6
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	951.8	0.0	951.8
	% Fixture	48.5	0.0	48.5
Total	Lumens	1962.4	0.0	1962.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	31.4	1.6
10°-20°	101.8	5.2
20°-30°	173.7	8.9
30°-40°	242.6	12.4
40°-50°	308.6	15.7
50°-60°	390.1	19.9
60°-70°	481.2	24.5
70°-80°	210.2	10.7
80°-90°	22.8	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°	1962.4	100.0
0°-180°	1962.4	100.0



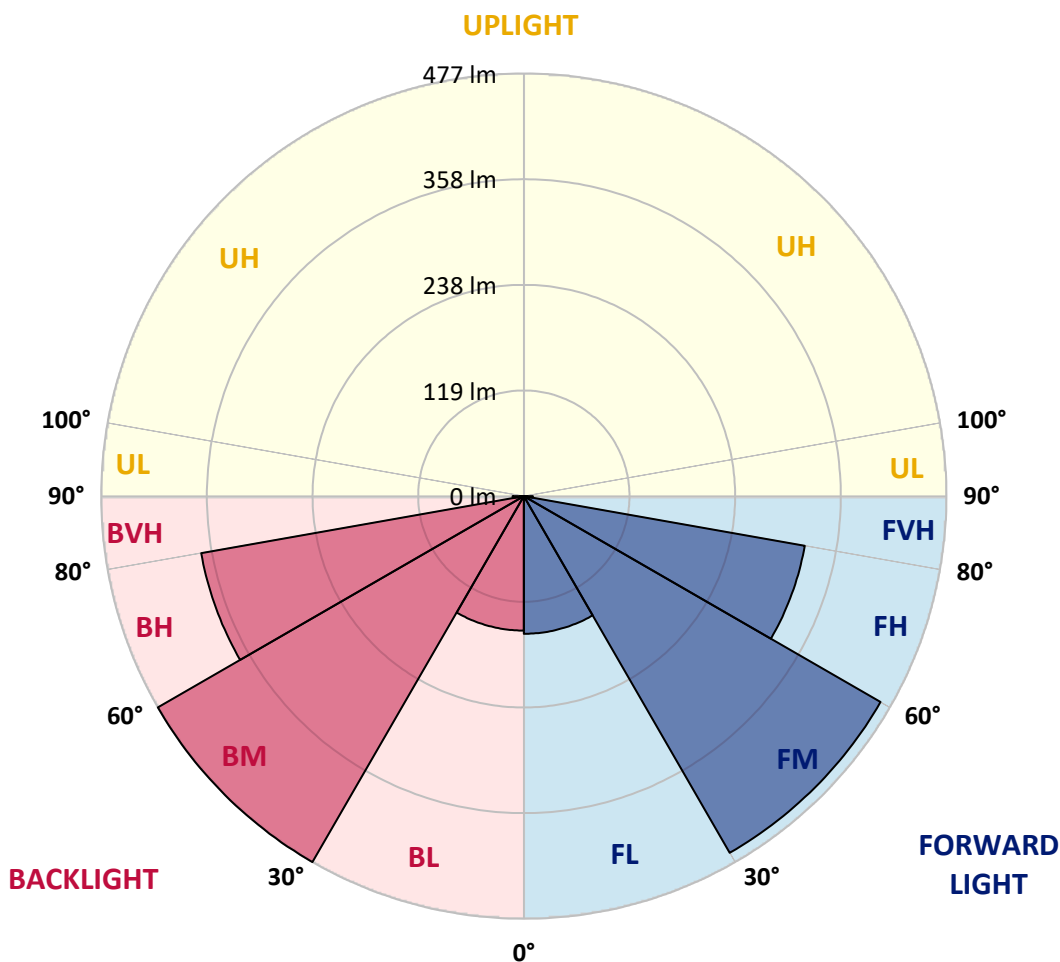
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	155.3	7.9			
FM (30°-60°)	464.6	23.7			
FH (60°-80°)	321.8	16.4			G0/660
FVH (80°-90°)	10.1	0.5			G1/100
BL (0°-30°)	151.7	7.7	B1/500		
BM (30°-60°)	476.7	24.3	B1/1000		
BH (60°-80°)	369.5	18.8	B1/500		G1/500
BVH (80°-90°)	12.7	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G1

Type I Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
0°	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8
2.5°	320.4	320.1	321.2	321.9	318.6	319.7	319.0	318.2	315.6	314.5	312.3
5°	329.3	330.4	334.1	330.7	332.2	330.4	324.5	326.3	323.0	322.3	320.1
7.5°	344.7	342.5	347.7	344.0	345.1	341.4	338.8	335.5	334.8	329.6	330.0
10°	348.1	352.5	354.7	353.9	354.7	356.5	351.7	346.6	339.6	338.1	332.9
12.5°	345.8	349.9	355.8	360.6	363.9	364.6	362.8	361.7	358.7	350.3	349.9
15°	343.6	340.7	344.4	360.9	372.0	379.4	381.9	375.7	376.4	365.4	360.9
17.5°	328.9	324.5	338.8	355.0	368.7	384.9	397.4	395.6	395.6	386.7	380.5
20°	309.4	316.7	324.1	344.7	369.8	394.1	418.0	416.9	412.5	409.9	396.3
22.5°	292.8	296.1	309.7	331.5	362.8	396.7	425.0	445.3	435.0	424.7	416.6
25°	281.4	278.4	295.8	318.2	356.2	392.2	438.3	459.3	464.8	457.1	441.6
27.5°	265.2	265.2	278.8	300.2	334.8	390.0	451.2	483.2	491.3	479.9	457.4
30°	246.8	249.0	260.8	285.1	319.0	373.8	456.3	510.8	517.5	507.5	484.3
32.5°	232.4	232.4	245.7	271.4	307.9	366.5	453.0	538.1	550.6	543.3	519.3
35°	216.9	215.8	225.4	253.8	290.2	352.1	451.9	559.8	587.8	588.2	563.1
37.5°	194.8	199.3	211.4	233.9	276.2	338.1	448.6	586.0	636.1	644.5	627.2
40°	180.1	181.9	193.0	217.7	254.5	321.5	443.8	607.3	668.1	697.2	673.3
42.5°	158.7	161.3	169.8	200.4	233.5	298.0	422.8	622.4	713.8	746.9	726.7
45°	136.3	137.7	150.3	175.3	211.0	270.0	400.3	646.7	758.0	825.7	814.0
47.5°	109.4	110.1	120.8	147.0	184.2	242.0	365.7	645.6	793.7	904.6	937.7
50°	85.4	87.3	95.4	116.8	151.7	207.7	325.6	636.8	838.6	994.4	1059.6
52.5°	68.1	68.5	73.7	90.6	117.1	173.5	282.5	608.8	881.0	1082.5	1209.2
55°	56.4	56.4	59.3	69.6	89.9	131.9	232.0	562.4	886.1	1179.7	1372.3
56°	54.1	53.4	56.0	64.8	81.0	119.0	208.5	531.1	893.5	1224.6	1454.1
57°	51.2	51.6	53.0	59.3	72.9	105.3	182.3	500.5	888.4	1261.5	1514.5
58°	49.7	49.0	51.9	56.0	64.5	93.5	164.3	464.4	880.3	1291.7	1602.5
59°	47.5	47.1	49.0	52.7	60.0	83.2	142.2	425.4	864.4	1330.7	1668.1
60°	46.8	46.4	47.1	50.1	55.2	72.9	125.2	379.7	822.1	1370.8	1749.5
61°	44.6	44.9	46.4	48.2	52.3	65.6	112.7	332.9	794.4	1404.7	1839.3
62°	44.9	44.2	44.9	46.4	49.4	60.4	98.7	286.9	745.1	1443.0	1906.7
63°	42.7	42.4	43.5	45.3	46.8	54.5	86.2	247.9	689.1	1451.9	1963.8
64°	42.0	41.6	42.0	44.6	44.9	51.2	76.2	211.8	608.1	1467.0	2037.1
65°	40.1	40.1	40.9	42.0	43.5	48.2	68.1	183.8	527.4	1427.2	2059.6
66°	38.7	39.0	39.0	40.9	42.0	44.9	62.6	156.2	450.1	1363.8	2081.3
67°	37.6	37.6	37.9	39.4	40.5	42.4	56.4	135.2	379.7	1288.3	2047.8
67.5°	36.8	37.2	37.2	38.7	39.8	42.4	53.8	128.2	339.6	1205.5	2022.7
68°	35.7	36.1	36.1	37.6	38.7	40.9	51.9	117.1	313.1	1151.7	1976.3
69°	35.0	34.6	34.6	36.1	37.6	39.0	48.2	102.4	249.0	1001.4	1908.6
70°	32.8	32.8	33.5	34.6	35.7	37.2	44.6	90.2	210.7	829.1	1734.0
71°	31.7	31.3	31.7	32.8	33.9	35.7	40.9	79.9	172.4	688.4	1562.4
72°	29.5	30.2	30.2	31.3	32.4	33.5	38.3	69.6	144.7	550.3	1373.4
72.5°	29.1	29.1	29.5	30.6	31.3	33.1	36.8	66.7	132.2	485.1	1294.2
73°	28.0	28.0	28.4	29.5	30.2	32.0	35.7	60.0	120.4	431.7	1146.2
74°	26.9	26.5	26.5	28.0	28.4	30.2	33.5	53.0	100.9	325.2	920.0
75°	25.0	25.0	25.4	26.1	26.5	28.0	30.9	47.1	85.1	252.3	719.7



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	20.6	21.0	21.4	22.1	22.1	23.2	25.4	32.8	51.9	127.8	330.4
80°	15.1	15.8	16.9	18.0	17.7	17.7	19.9	23.6	30.9	57.5	126.7
82.5°	12.2	12.9	11.8	13.3	13.3	12.5	14.4	17.3	21.0	28.4	45.3
85°	8.1	8.5	7.0	8.1	7.7	7.7	9.6	10.3	12.9	15.8	22.5
87.5°	3.7	3.7	2.9	3.3	3.3	3.3	4.8	3.7	5.5	7.7	13.3
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°	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8	313.8
2.5°	314.5	316.0	316.0	314.5	313.4	314.5	313.8	312.0	313.8	314.5	314.9
5°	319.0	316.0	317.5	314.2	316.4	316.0	315.3	317.1	317.5	317.5	320.1
7.5°	323.7	327.4	322.6	323.0	324.1	319.7	321.2	321.9	320.4	323.4	325.6
10°	332.2	333.7	332.2	326.7	330.4	327.4	326.3	329.6	328.9	329.6	332.9
12.5°	339.9	342.5	338.5	338.1	336.3	333.7	335.2	334.8	339.9	340.7	344.7
15°	355.8	349.2	347.7	347.3	346.6	345.5	346.2	346.6	353.2	354.3	363.9
17.5°	369.4	368.3	360.2	363.2	363.2	358.7	356.9	363.2	368.3	373.8	380.5
20°	383.4	382.3	373.5	373.8	370.5	374.6	372.4	378.3	387.1	388.9	394.8
22.5°	400.0	395.2	388.9	389.7	390.8	387.8	386.4	394.5	403.3	408.5	408.8
25°	426.1	414.0	408.8	409.6	408.1	405.9	407.0	417.3	421.7	432.8	430.6
27.5°	440.1	433.1	429.4	421.0	421.3	418.0	422.4	437.9	446.8	455.2	438.3
30°	457.1	452.6	436.4	433.5	433.1	431.7	439.8	459.6	472.9	477.7	453.4
32.5°	490.2	472.5	468.5	465.9	460.0	461.9	465.9	492.1	513.1	511.9	467.4
35°	528.2	516.0	504.6	502.4	501.6	496.5	503.5	534.0	550.3	545.5	472.5
37.5°	588.9	570.5	555.0	546.6	545.1	541.4	558.0	582.3	603.3	584.5	476.6
40°	618.8	598.1	583.8	578.6	579.7	584.9	601.1	638.3	647.5	612.9	479.9
42.5°	661.5	639.0	610.7	608.1	604.8	607.3	638.6	688.7	696.5	651.2	467.4
45°	737.4	703.5	670.7	656.0	656.7	663.7	712.3	767.2	752.8	677.7	447.5
47.5°	833.1	783.4	756.9	737.0	746.6	738.8	816.2	860.0	811.0	711.2	423.2
50°	977.1	907.5	871.4	847.5	851.5	858.2	936.6	973.8	875.5	727.4	386.0
52.5°	1158.7	1069.2	1016.2	984.1	987.1	1001.4	1102.7	1091.3	949.1	741.0	336.3
55°	1376.0	1283.9	1181.2	1167.9	1164.6	1198.8	1310.4	1214.3	1015.4	719.3	284.7
56°	1490.9	1392.9	1286.1	1258.9	1250.8	1274.7	1405.8	1275.8	1038.3	695.0	260.0
57°	1588.5	1495.0	1377.8	1331.4	1341.7	1386.7	1500.5	1333.6	1059.3	670.0	236.8
58°	1722.6	1615.8	1492.0	1456.7	1447.4	1483.2	1602.5	1391.8	1066.2	644.2	215.5
59°	1856.3	1728.1	1616.5	1552.0	1554.6	1619.8	1703.1	1461.1	1076.9	611.4	188.2
60°	1957.9	1893.5	1744.3	1696.1	1689.4	1783.7	1803.2	1507.5	1088.3	567.2	169.1
61°	2101.9	2018.0	1879.1	1816.9	1834.9	1910.4	1911.5	1565.7	1071.4	511.2	145.5
62°	2205.4	2183.3	2037.5	1978.2	1972.7	2072.8	2024.2	1616.9	1056.7	458.2	128.5
63°	2326.6	2326.6	2193.6	2147.2	2149.8	2229.0	2073.2	1668.1	1039.7	399.6	113.1
64°	2389.6	2468.8	2346.1	2280.9	2297.9	2366.4	2160.5	1701.6	987.4	340.3	99.4
65°	2444.1	2563.0	2494.9	2464.7	2438.9	2479.4	2236.0	1732.9	907.5	289.5	88.4
66°	2490.1	2651.8	2629.3	2596.9	2594.4	2585.1	2250.7	1731.8	825.0	244.6	77.3
67°	2466.9	2653.7	2694.5	2708.2	2704.1	2606.9	2224.9	1692.4	719.3	206.6	68.9
67.5°	2445.9	2638.6	2733.6	2725.8	2742.8	2625.3	2229.4	1644.1	644.2	187.1	64.8
68°	2427.5	2618.3	2749.4	2759.4	2750.9	2627.5	2205.1	1605.8	593.0	175.7	61.1
69°	2287.9	2522.2	2724.0	2759.7	2738.0	2543.2	2127.7	1506.0	471.1	149.9	56.4
70°	2148.0	2397.7	2600.6	2666.2	2639.3	2380.0	2030.1	1347.3	388.6	128.2	50.8
71°	1954.2	2166.4	2436.4	2475.8	2443.3	2194.4	1828.3	1179.7	302.4	108.7	45.3
72°	1691.3	1871.4	2129.2	2224.6	2176.7	1927.3	1624.2	974.9	244.9	91.3	41.3
72.5°	1560.9	1745.4	1994.0	2001.7	2011.0	1811.3	1537.7	856.3	213.6	84.7	40.1
73°	1437.1	1618.0	1833.1	1860.3	1821.3	1615.8	1408.4	765.7	195.2	77.3	38.7
74°	1164.6	1267.7	1446.0	1472.5	1438.2	1317.4	1151.0	587.1	155.4	66.7	35.4
75°	916.3	973.1	1134.4	1118.2	1067.0	1024.6	892.4	448.6	126.0	58.6	32.8



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	411.8	446.0	472.9	472.9	475.9	454.1	411.4	205.9	77.7	42.4	26.9
80°	156.9	175.7	181.6	181.9	184.5	191.2	177.9	101.3	46.0	30.2	21.7
82.5°	113.8	159.1	171.3	162.4	163.2	147.3	68.1	44.9	29.1	21.0	15.8
85°	103.1	138.5	146.6	145.5	145.8	136.3	40.1	22.1	16.9	13.3	11.0
87.5°	50.1	49.0	51.9	58.6	57.1	74.0	33.9	11.0	7.4	5.5	5.5
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°	313.8	313.8	313.8	313.8	313.8	313.8
2.5°	312.0	311.6	316.7	311.6	314.5	312.3
5°	315.6	317.1	318.2	320.4	315.3	320.4
7.5°	326.7	328.2	328.5	330.4	328.2	327.8
10°	335.2	338.8	341.1	333.7	338.1	337.7
12.5°	351.7	348.1	347.7	346.2	342.2	340.7
15°	363.5	358.0	354.7	348.8	344.0	342.2
17.5°	380.1	369.4	355.8	343.6	335.2	328.5
20°	390.4	371.3	344.0	329.6	316.7	319.7
22.5°	397.0	369.4	333.3	314.9	302.0	305.7
25°	399.2	360.2	326.0	303.1	290.6	288.0
27.5°	393.0	349.5	311.6	285.8	274.8	277.0
30°	390.0	334.1	298.3	272.9	258.2	260.4
32.5°	382.3	318.2	280.6	254.9	244.2	240.5
35°	371.3	305.0	263.7	239.4	226.5	223.6
37.5°	357.6	288.4	249.0	219.5	208.1	205.9
40°	337.4	268.5	227.6	202.2	188.9	188.6
42.5°	319.7	249.3	207.7	181.6	168.3	169.1
45°	297.2	223.6	184.9	162.4	149.2	149.9
47.5°	268.5	199.6	163.2	138.1	127.1	126.3
50°	234.6	172.4	136.6	115.3	106.1	104.2
52.5°	202.2	144.7	112.0	92.8	85.1	84.3
55°	161.3	112.7	87.3	72.9	67.0	67.4
56°	146.6	103.9	79.6	66.7	62.2	62.2
57°	132.6	92.1	72.2	61.5	57.5	57.5
58°	117.1	81.0	65.6	55.6	53.8	52.3
59°	106.4	73.7	59.3	52.7	49.7	49.4
60°	93.9	66.3	55.2	49.4	47.1	46.8
61°	83.2	59.7	50.8	46.0	45.3	45.3
62°	74.4	55.2	47.1	44.6	44.2	43.1
63°	66.7	50.8	45.3	42.4	41.3	42.4
64°	59.7	46.8	43.8	41.6	40.1	40.9
65°	54.1	44.9	42.0	40.5	39.0	39.4
66°	50.5	42.0	40.5	38.7	37.9	38.3
67°	45.7	40.5	39.0	37.2	36.8	37.2
67.5°	44.2	39.4	38.3	36.5	36.1	36.5
68°	43.1	38.7	37.9	36.1	35.7	35.4
69°	40.1	37.2	36.1	35.4	34.6	34.3
70°	37.6	35.7	35.0	33.9	33.1	32.8
71°	36.1	33.9	33.5	32.4	31.7	31.3
72°	34.3	32.8	32.0	30.6	30.2	30.6
72.5°	33.9	32.0	31.7	30.2	29.8	29.8
73°	32.8	30.6	30.9	29.5	28.7	29.5
74°	30.6	29.8	29.1	28.0	27.6	27.6
75°	28.7	28.0	27.3	26.5	26.5	26.5



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	24.3	23.9	24.3	22.8	22.5	22.1
80°	19.5	19.5	19.9	18.8	18.0	17.7
82.5°	14.7	15.1	15.8	14.7	14.0	13.3
85°	9.6	9.9	9.9	8.8	10.3	9.6
87.5°	4.8	5.2	4.8	4.4	5.2	5.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)