

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: P676087

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

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676087
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1B-722-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T1 distribution lens
Light Source: (16) 2200K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

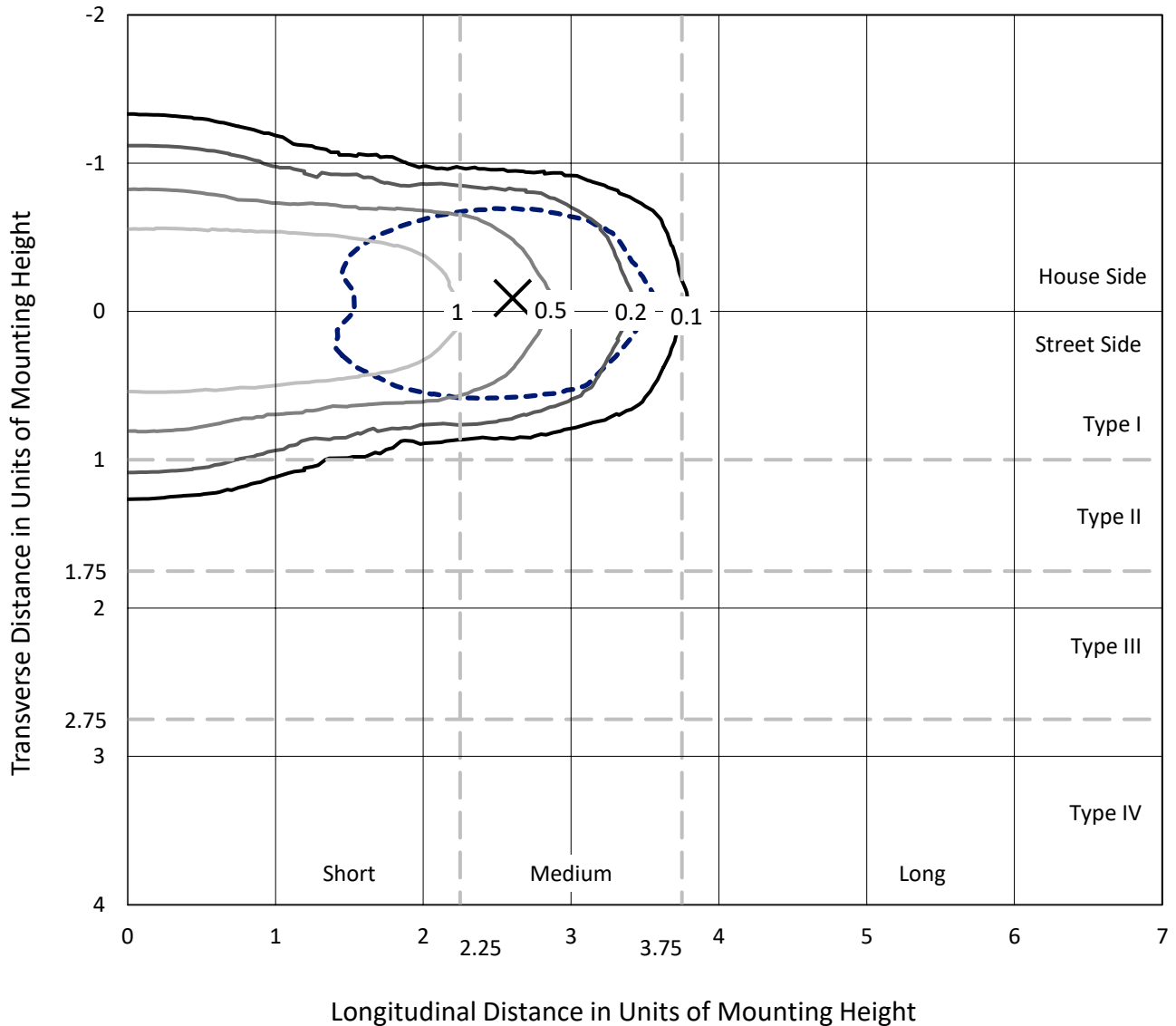
Lumens per Lamp: N/A
Luminaire Lumens: 2477.2 lumens
Efficiency: N/A
Efficacy: 103.2 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B1 - U0 - G1

Input Watts (W): 24
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

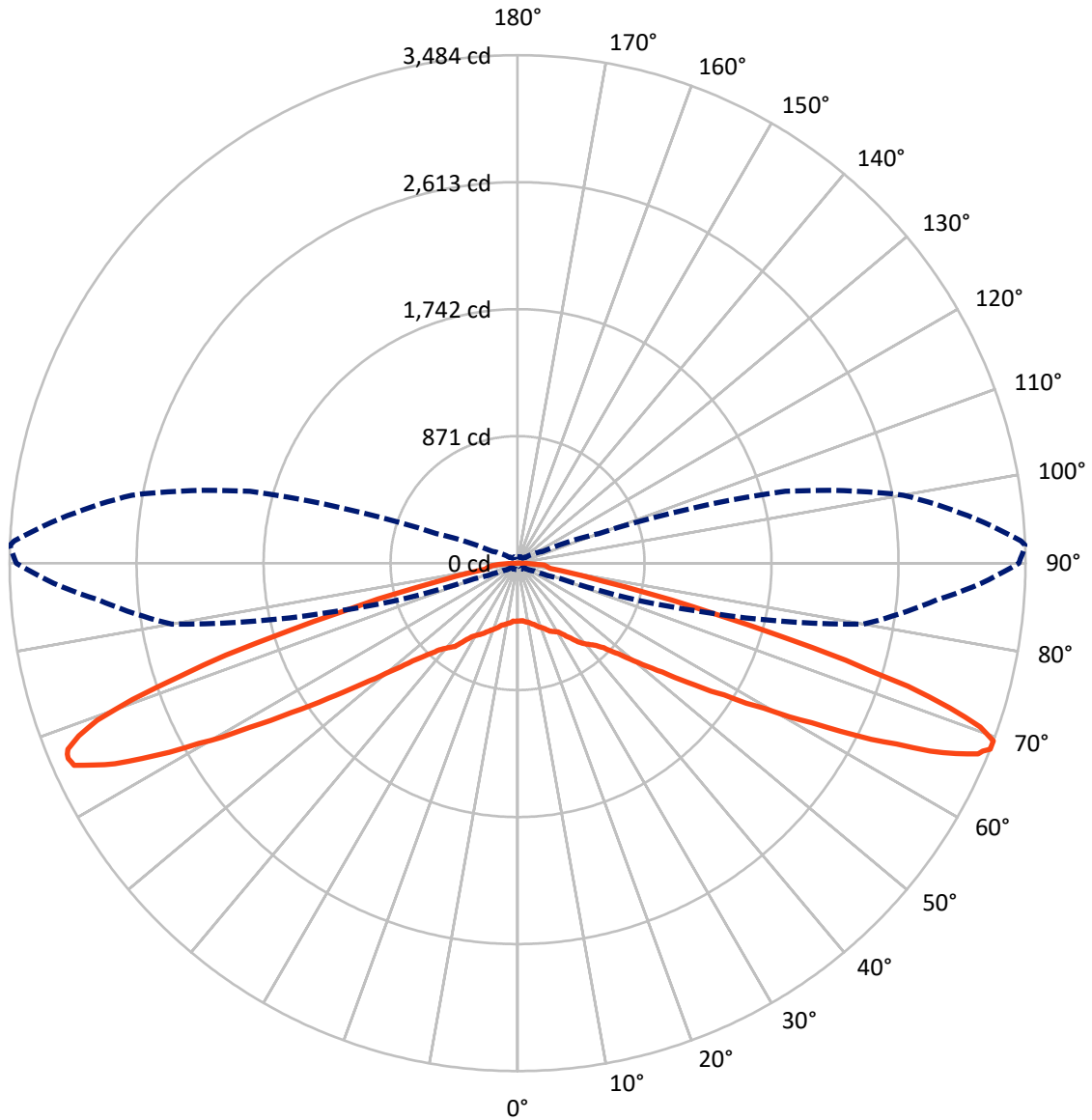
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 1.9 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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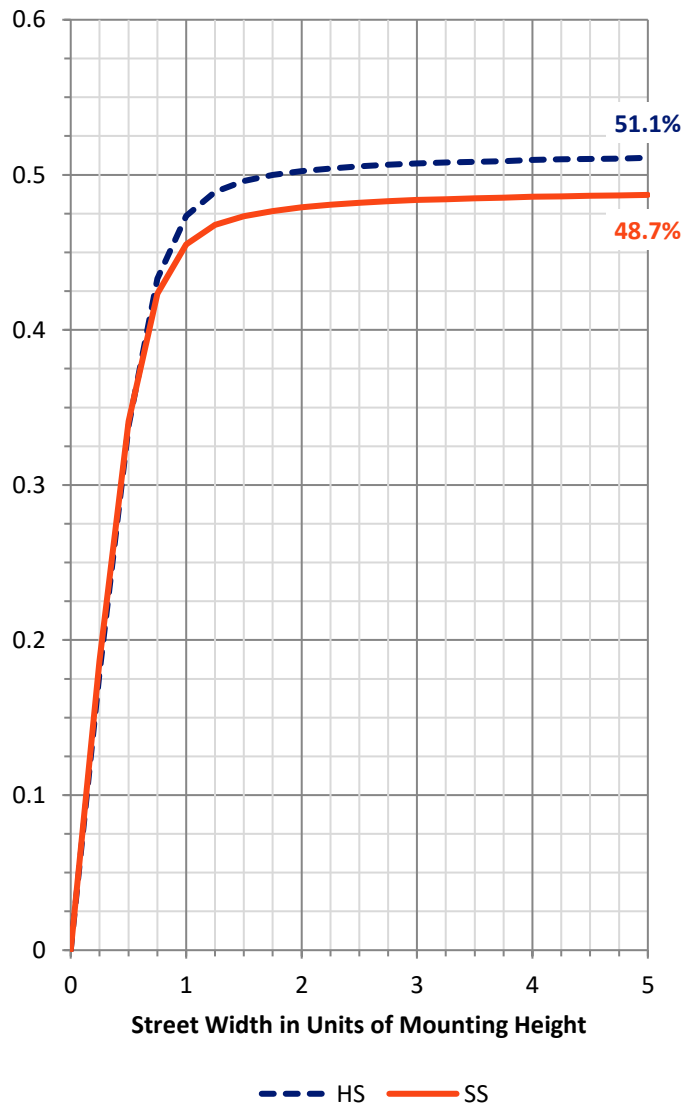
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1275.7	0.0	1275.7
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1201.5	0.0	1201.5
	% Fixture	48.5	0.0	48.5
Total	Lumens	2477.2	0.0	2477.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	39.7	1.6
10°-20°	128.5	5.2
20°-30°	219.3	8.9
30°-40°	306.2	12.4
40°-50°	389.5	15.7
50°-60°	492.5	19.9
60°-70°	607.4	24.5
70°-80°	265.3	10.7
80°-90°	28.8	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°	2477.2	100.0
0°-180°	2477.2	100.0



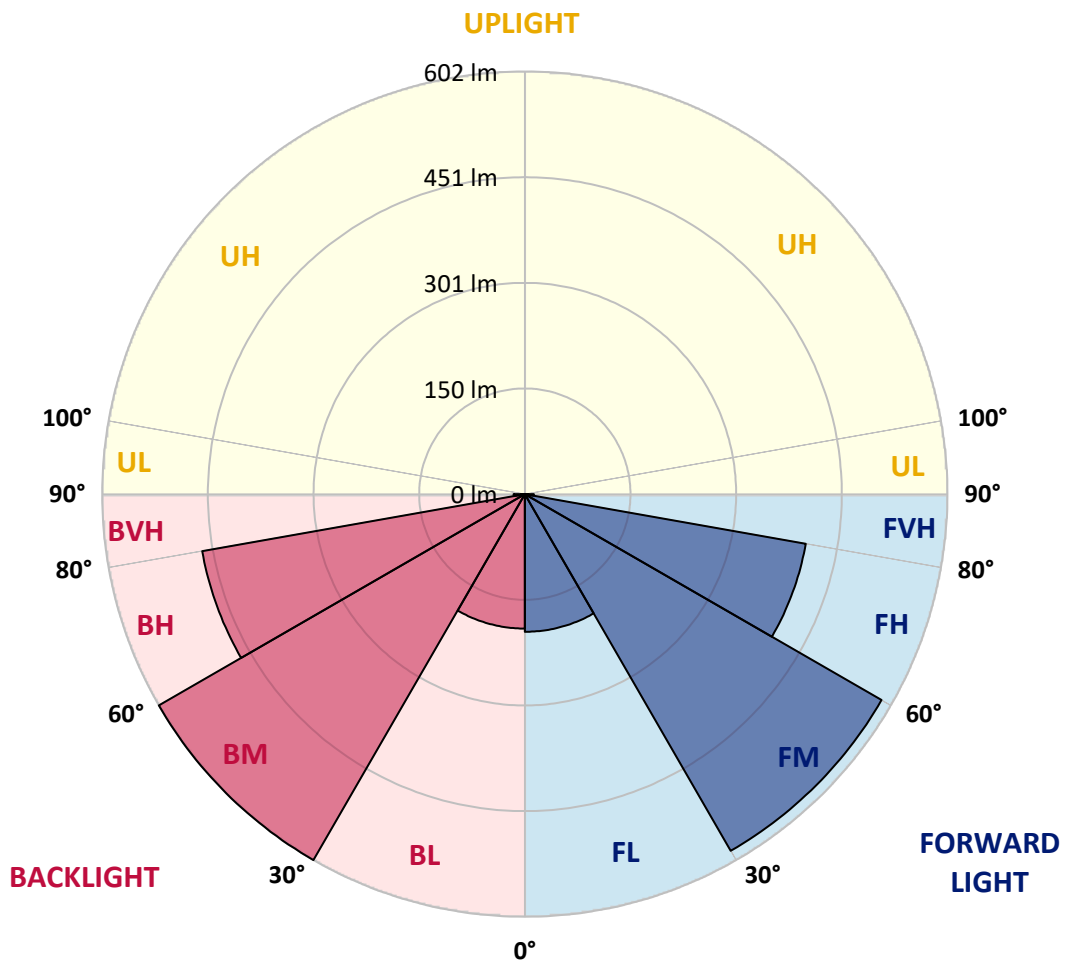
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	196.0	7.9			
FM (30°-60°)	586.5	23.7			
FH (60°-80°)	406.2	16.4			G0/660
FVH (80°-90°)	12.8	0.5			G1/100
BL (0°-30°)	191.4	7.7	B1/500		
BM (30°-60°)	601.8	24.3	B1/1000		
BH (60°-80°)	466.5	18.8	B1/500		G1/500
BVH (80°-90°)	16.0	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°	396.1	396.1	396.1	396.1	396.1	396.1	396.1	396.1	396.1	396.1	396.1
2.5°	404.5	404.0	405.4	406.4	402.2	403.6	402.6	401.7	398.5	397.1	394.3
5°	415.7	417.0	421.7	417.5	419.4	417.0	409.6	411.9	407.8	406.8	404.0
7.5°	435.2	432.4	438.9	434.3	435.6	431.0	427.7	423.6	422.6	416.1	416.6
10°	439.4	444.9	447.7	446.8	447.7	450.1	444.0	437.5	428.7	426.8	420.3
12.5°	436.6	441.7	449.1	455.2	459.4	460.3	458.0	456.6	452.9	442.2	441.7
15°	433.8	430.1	434.7	455.6	469.6	478.9	482.1	474.2	475.2	461.2	455.6
17.5°	415.2	409.6	427.7	448.2	465.4	485.9	501.7	499.3	499.3	488.2	480.3
20°	390.5	399.8	409.1	435.2	466.8	497.5	527.7	526.3	520.7	517.5	500.3
22.5°	369.6	373.8	391.0	418.4	458.0	500.7	536.5	562.1	549.1	536.1	525.8
25°	355.2	351.5	373.3	401.7	449.6	495.2	553.3	579.8	586.8	577.0	557.5
27.5°	334.8	334.8	352.0	378.9	422.6	492.4	569.5	610.0	620.2	605.8	577.5
30°	311.5	314.3	329.2	359.9	402.6	471.9	576.1	644.9	653.2	640.7	611.4
32.5°	293.4	293.4	310.1	342.7	388.7	462.6	571.9	679.3	695.1	685.8	655.6
35°	273.8	272.5	284.5	320.3	366.4	444.5	570.5	706.7	742.0	742.5	710.9
37.5°	246.0	251.5	266.9	295.2	348.7	426.8	566.3	739.7	802.9	813.6	791.8
40°	227.4	229.7	243.6	274.8	321.3	405.9	560.3	766.7	843.4	880.1	849.9
42.5°	200.4	203.6	214.3	252.9	294.8	376.1	533.7	785.7	901.1	942.9	917.3
45°	172.0	173.9	189.7	221.3	266.4	340.8	505.4	816.4	956.8	1042.4	1027.5
47.5°	138.1	139.0	152.5	185.5	232.5	305.5	461.7	815.0	1001.9	1141.9	1183.7
50°	107.9	110.2	120.4	147.4	191.6	262.2	411.0	803.9	1058.7	1255.3	1337.6
52.5°	86.0	86.5	93.0	114.4	147.9	219.0	356.6	768.5	1112.1	1366.5	1526.4
55°	71.1	71.1	74.9	87.9	113.4	166.4	292.9	710.0	1118.6	1489.2	1732.4
56°	68.3	67.4	70.7	81.8	102.3	150.2	263.2	670.4	1127.9	1545.9	1835.6
57°	64.6	65.1	67.0	74.9	92.1	133.0	230.1	631.9	1121.4	1592.4	1911.8
58°	62.8	61.8	65.6	70.7	81.4	118.1	207.4	586.3	1111.2	1630.5	2022.9
59°	60.0	59.5	61.8	66.5	75.8	105.1	179.5	537.0	1091.2	1679.8	2105.7
60°	59.0	58.6	59.5	63.2	69.7	92.1	158.1	479.4	1037.7	1730.5	2208.5
61°	56.3	56.7	58.6	60.9	66.0	82.8	142.3	420.3	1002.9	1773.3	2321.9
62°	56.7	55.8	56.7	58.6	62.3	76.2	124.6	362.2	940.6	1821.6	2407.0
63°	53.9	53.5	54.9	57.2	59.0	68.8	108.8	312.9	869.9	1832.8	2479.1
64°	53.0	52.5	53.0	56.3	56.7	64.6	96.2	267.3	767.6	1851.9	2571.6
65°	50.7	50.7	51.6	53.0	54.9	60.9	86.0	232.0	665.8	1801.6	2599.9
66°	48.8	49.3	49.3	51.6	53.0	56.7	79.0	197.1	568.2	1721.7	2627.4
67°	47.4	47.4	47.9	49.7	51.1	53.5	71.1	170.6	479.4	1626.4	2585.1
67.5°	46.5	47.0	47.0	48.8	50.2	53.5	67.9	161.8	428.7	1521.7	2553.4
68°	45.1	45.6	45.6	47.4	48.8	51.6	65.6	147.9	395.2	1453.9	2494.9
69°	44.2	43.7	43.7	45.6	47.4	49.3	60.9	129.3	314.3	1264.2	2409.3
70°	41.4	41.4	42.3	43.7	45.1	47.0	56.3	113.9	265.9	1046.6	2188.9
71°	40.0	39.5	40.0	41.4	42.8	45.1	51.6	100.9	217.6	869.0	1972.3
72°	37.2	38.1	38.1	39.5	40.9	42.3	48.4	87.9	182.7	694.6	1733.8
72.5°	36.7	36.7	37.2	38.6	39.5	41.8	46.5	84.2	166.9	612.3	1633.8
73°	35.3	35.3	35.8	37.2	38.1	40.4	45.1	75.8	152.0	544.9	1446.9
74°	33.9	33.5	33.5	35.3	35.8	38.1	42.3	67.0	127.4	410.5	1161.4
75°	31.6	31.6	32.1	33.0	33.5	35.3	39.1	59.5	107.4	318.5	908.5



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	26.0	26.5	27.0	27.9	27.9	29.3	32.1	41.4	65.6	161.3	417.0
80°	19.1	20.0	21.4	22.8	22.3	22.3	25.1	29.8	39.1	72.5	159.9
82.5°	15.3	16.3	14.9	16.7	16.7	15.8	18.1	21.9	26.5	35.8	57.2
85°	10.2	10.7	8.8	10.2	9.8	9.8	12.1	13.0	16.3	20.0	28.4
87.5°	4.6	4.6	3.7	4.2	4.2	4.2	6.0	4.6	7.0	9.8	16.7
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°	396.1	396.1	396.1	396.1	396.1	396.1	396.1	396.1	396.1	396.1	396.1
2.5°	397.1	398.9	398.9	397.1	395.7	397.1	396.1	393.8	396.1	397.1	397.5
5°	402.6	398.9	400.8	396.6	399.4	398.9	398.0	400.3	400.8	400.8	404.0
7.5°	408.7	413.3	407.3	407.8	409.1	403.6	405.4	406.4	404.5	408.2	411.0
10°	419.4	421.2	419.4	412.4	417.0	413.3	411.9	416.1	415.2	416.1	420.3
12.5°	429.1	432.4	427.3	426.8	424.5	421.2	423.1	422.6	429.1	430.1	435.2
15°	449.1	440.8	438.9	438.4	437.5	436.1	437.0	437.5	445.9	447.3	459.4
17.5°	466.3	464.9	454.7	458.4	458.4	452.9	450.5	458.4	464.9	471.9	480.3
20°	484.0	482.6	471.4	471.9	467.7	472.8	470.1	477.5	488.7	491.0	498.4
22.5°	504.9	498.9	491.0	491.9	493.3	489.6	487.7	497.9	509.1	515.6	516.1
25°	537.9	522.6	516.1	517.0	515.2	512.4	513.8	526.8	532.4	546.3	543.5
27.5°	555.6	546.8	542.1	531.4	531.9	527.7	533.3	552.8	564.0	574.7	553.3
30°	577.0	571.4	551.0	547.2	546.8	544.9	555.1	580.2	597.0	603.0	572.3
32.5°	618.8	596.5	591.4	588.1	580.7	583.0	588.1	621.2	647.7	646.3	590.0
35°	666.7	651.4	637.0	634.2	633.2	626.7	635.6	674.2	694.6	688.6	596.5
37.5°	743.4	720.2	700.7	690.0	688.1	683.5	704.4	735.1	761.6	737.9	601.6
40°	781.1	755.1	736.9	730.4	731.8	738.3	758.8	805.7	817.4	773.7	605.8
42.5°	835.0	806.7	770.9	767.6	763.4	766.7	806.2	869.4	879.2	822.0	590.0
45°	930.8	888.0	846.7	828.1	829.0	837.8	899.2	968.5	950.3	855.5	564.9
47.5°	1051.7	988.9	955.4	930.3	942.4	932.7	1030.3	1085.6	1023.8	897.8	534.2
50°	1233.5	1145.6	1100.0	1069.8	1074.9	1083.3	1182.3	1229.3	1105.2	918.3	487.3
52.5°	1462.7	1349.7	1282.8	1242.3	1246.0	1264.2	1392.0	1377.6	1198.1	935.5	424.5
55°	1737.0	1620.8	1491.1	1474.3	1470.1	1513.4	1654.3	1532.9	1281.8	908.0	359.4
56°	1882.1	1758.4	1623.6	1589.2	1578.9	1609.2	1774.7	1610.5	1310.7	877.3	328.2
57°	2005.3	1887.2	1739.3	1680.8	1693.8	1750.5	1894.2	1683.5	1337.2	845.7	299.0
58°	2174.5	2039.7	1883.5	1838.8	1827.2	1872.3	2022.9	1757.0	1346.0	813.2	272.0
59°	2343.3	2181.5	2040.6	1959.3	1962.5	2044.8	2149.9	1844.4	1359.5	771.8	237.6
60°	2471.6	2390.2	2201.9	2141.0	2132.7	2251.7	2276.3	1903.0	1373.9	716.0	213.4
61°	2653.4	2547.4	2372.1	2293.5	2316.3	2411.6	2413.0	1976.5	1352.5	645.3	183.7
62°	2784.1	2756.2	2572.0	2497.2	2490.2	2616.7	2555.3	2041.1	1333.9	578.4	162.3
63°	2937.0	2937.0	2769.2	2710.6	2713.8	2813.8	2617.1	2105.7	1312.5	504.5	142.7
64°	3016.5	3116.5	2961.7	2879.4	2900.8	2987.2	2727.3	2148.0	1246.5	429.6	125.5
65°	3085.3	3235.5	3149.5	3111.4	3078.8	3130.0	2822.6	2187.5	1145.6	365.4	111.6
66°	3143.4	3347.6	3319.2	3278.3	3275.0	3263.4	2841.2	2186.1	1041.5	308.7	97.6
67°	3114.2	3349.9	3401.5	3418.7	3413.6	3290.8	2808.7	2136.4	908.0	260.8	86.9
67.5°	3087.7	3330.8	3450.8	3441.0	3462.4	3314.1	2814.3	2075.5	813.2	236.2	81.8
68°	3064.4	3305.2	3470.8	3483.3	3472.6	3316.9	2783.6	2027.1	748.6	221.8	77.2
69°	2888.2	3183.9	3438.7	3483.8	3456.4	3210.4	2685.9	1901.1	594.7	189.2	71.1
70°	2711.5	3026.7	3282.9	3365.7	3331.7	3004.4	2562.7	1700.7	490.5	161.8	64.2
71°	2467.0	2734.8	3075.6	3125.3	3084.4	2770.1	2308.0	1489.2	381.7	137.2	57.2
72°	2135.0	2362.4	2687.8	2808.2	2747.8	2433.0	2050.4	1230.7	309.2	115.3	52.1
72.5°	1970.4	2203.3	2517.2	2526.9	2538.6	2286.6	1941.1	1081.0	269.7	106.9	50.7
73°	1814.2	2042.5	2314.0	2348.4	2299.1	2039.7	1777.9	966.6	246.4	97.6	48.8
74°	1470.1	1600.3	1825.3	1858.8	1815.6	1663.1	1452.9	741.1	196.2	84.2	44.6
75°	1156.8	1228.4	1432.0	1411.6	1346.9	1293.5	1126.5	566.3	159.0	73.9	41.4



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	519.8	563.0	597.0	597.0	600.7	573.3	519.3	259.9	98.1	53.5	33.9
80°	198.1	221.8	229.2	229.7	232.9	241.3	224.6	127.9	58.1	38.1	27.4
82.5°	143.7	200.9	216.2	205.0	206.0	186.0	86.0	56.7	36.7	26.5	20.0
85°	130.2	174.8	185.0	183.7	184.1	172.0	50.7	27.9	21.4	16.7	13.9
87.5°	63.2	61.8	65.6	73.9	72.1	93.5	42.8	13.9	9.3	7.0	7.0
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):

	135°	145°	155°	165°	175°	180°
0°	396.1	396.1	396.1	396.1	396.1	396.1
2.5°	393.8	393.3	399.8	393.3	397.1	394.3
5°	398.5	400.3	401.7	404.5	398.0	404.5
7.5°	412.4	414.3	414.7	417.0	414.3	413.8
10°	423.1	427.7	430.5	421.2	426.8	426.3
12.5°	444.0	439.4	438.9	437.0	431.9	430.1
15°	458.9	451.9	447.7	440.3	434.3	431.9
17.5°	479.8	466.3	449.1	433.8	423.1	414.7
20°	492.8	468.7	434.3	416.1	399.8	403.6
22.5°	501.2	466.3	420.8	397.5	381.2	385.9
25°	504.0	454.7	411.5	382.6	366.8	363.6
27.5°	496.1	441.2	393.3	360.8	346.8	349.6
30°	492.4	421.7	376.6	344.5	325.9	328.7
32.5°	482.6	401.7	354.3	321.7	308.3	303.6
35°	468.7	385.0	332.9	302.2	285.9	282.2
37.5°	451.5	364.0	314.3	277.1	262.7	259.9
40°	425.9	338.9	287.3	255.3	238.5	238.0
42.5°	403.6	314.8	262.2	229.2	212.5	213.4
45°	375.2	282.2	233.4	205.0	188.3	189.2
47.5°	338.9	252.0	206.0	174.4	160.4	159.5
50°	296.2	217.6	172.5	145.5	133.9	131.6
52.5°	255.3	182.7	141.3	117.2	107.4	106.5
55°	203.6	142.3	110.2	92.1	84.6	85.1
56°	185.0	131.1	100.4	84.2	78.6	78.6
57°	167.4	116.2	91.1	77.6	72.5	72.5
58°	147.9	102.3	82.8	70.2	67.9	66.0
59°	134.4	93.0	74.9	66.5	62.8	62.3
60°	118.6	83.7	69.7	62.3	59.5	59.0
61°	105.1	75.3	64.2	58.1	57.2	57.2
62°	93.9	69.7	59.5	56.3	55.8	54.4
63°	84.2	64.2	57.2	53.5	52.1	53.5
64°	75.3	59.0	55.3	52.5	50.7	51.6
65°	68.3	56.7	53.0	51.1	49.3	49.7
66°	63.7	53.0	51.1	48.8	47.9	48.4
67°	57.7	51.1	49.3	47.0	46.5	47.0
67.5°	55.8	49.7	48.4	46.0	45.6	46.0
68°	54.4	48.8	47.9	45.6	45.1	44.6
69°	50.7	47.0	45.6	44.6	43.7	43.2
70°	47.4	45.1	44.2	42.8	41.8	41.4
71°	45.6	42.8	42.3	40.9	40.0	39.5
72°	43.2	41.4	40.4	38.6	38.1	38.6
72.5°	42.8	40.4	40.0	38.1	37.7	37.7
73°	41.4	38.6	39.1	37.2	36.3	37.2
74°	38.6	37.7	36.7	35.3	34.9	34.9
75°	36.3	35.3	34.4	33.5	33.5	33.5



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	30.7	30.2	30.7	28.8	28.4	27.9
80°	24.6	24.6	25.1	23.7	22.8	22.3
82.5°	18.6	19.1	20.0	18.6	17.7	16.7
85°	12.1	12.6	12.6	11.2	13.0	12.1
87.5°	6.0	6.5	6.0	5.6	6.5	6.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)