

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: P673009

Luminaire Tested: **CCP-SA-1C-827-U-T1**

Issue Date: 04/16/2023



Test Information

Test Method: LM-79-08
Report Number: P673009
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/16/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCP-SA-1C-827-U-T1
Description: INVUE CLEAR CURVE POLE MOUNT LIGHT SQUARE LUMINAIRE @615mA w/ T1 distribution lens
Light Source: (16) 2700K CCT, 80 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

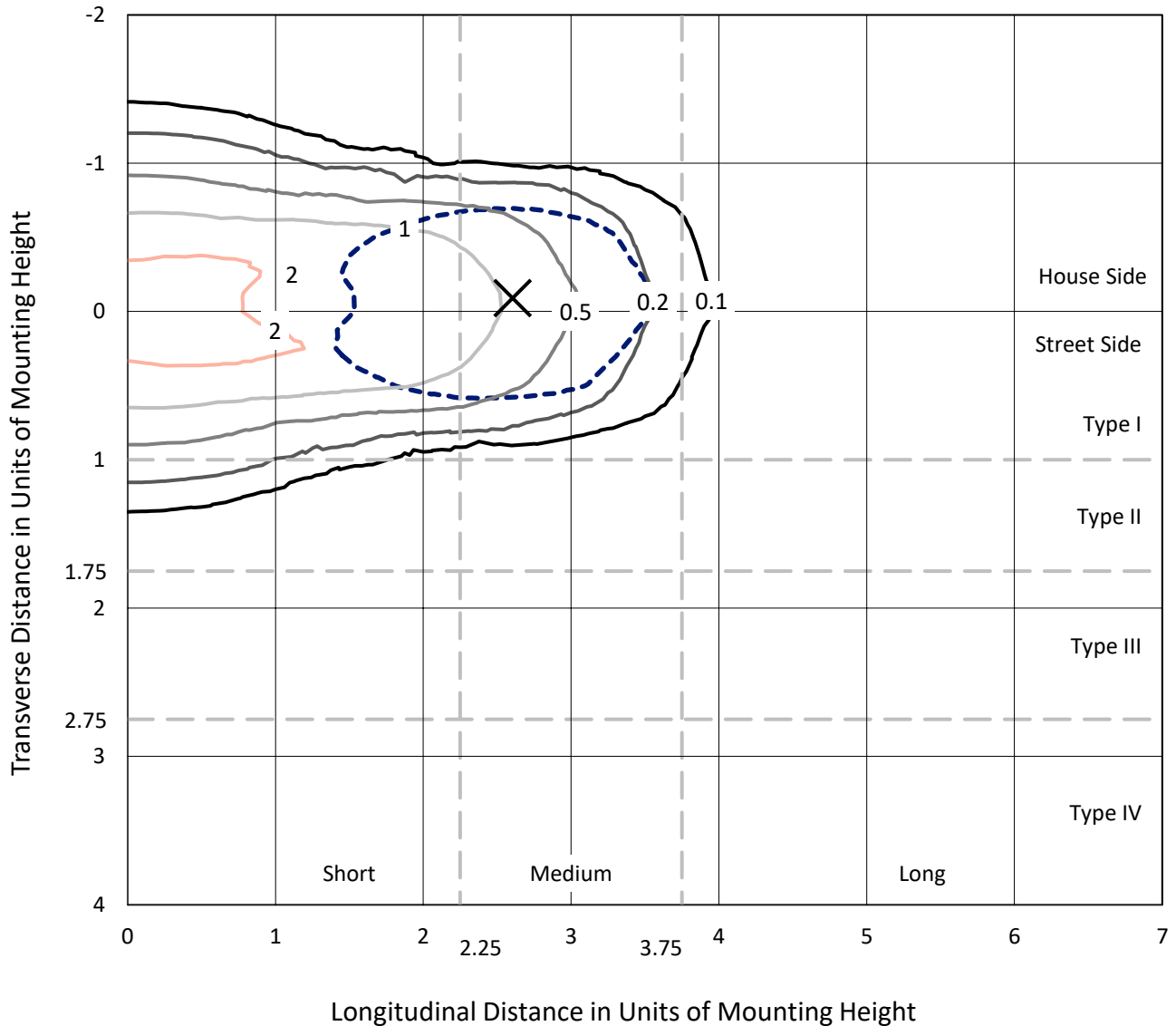
Lumens per Lamp: N/A
Luminaire Lumens: 3236.4 lumens
Efficiency: N/A
Efficacy: 101.1 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

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

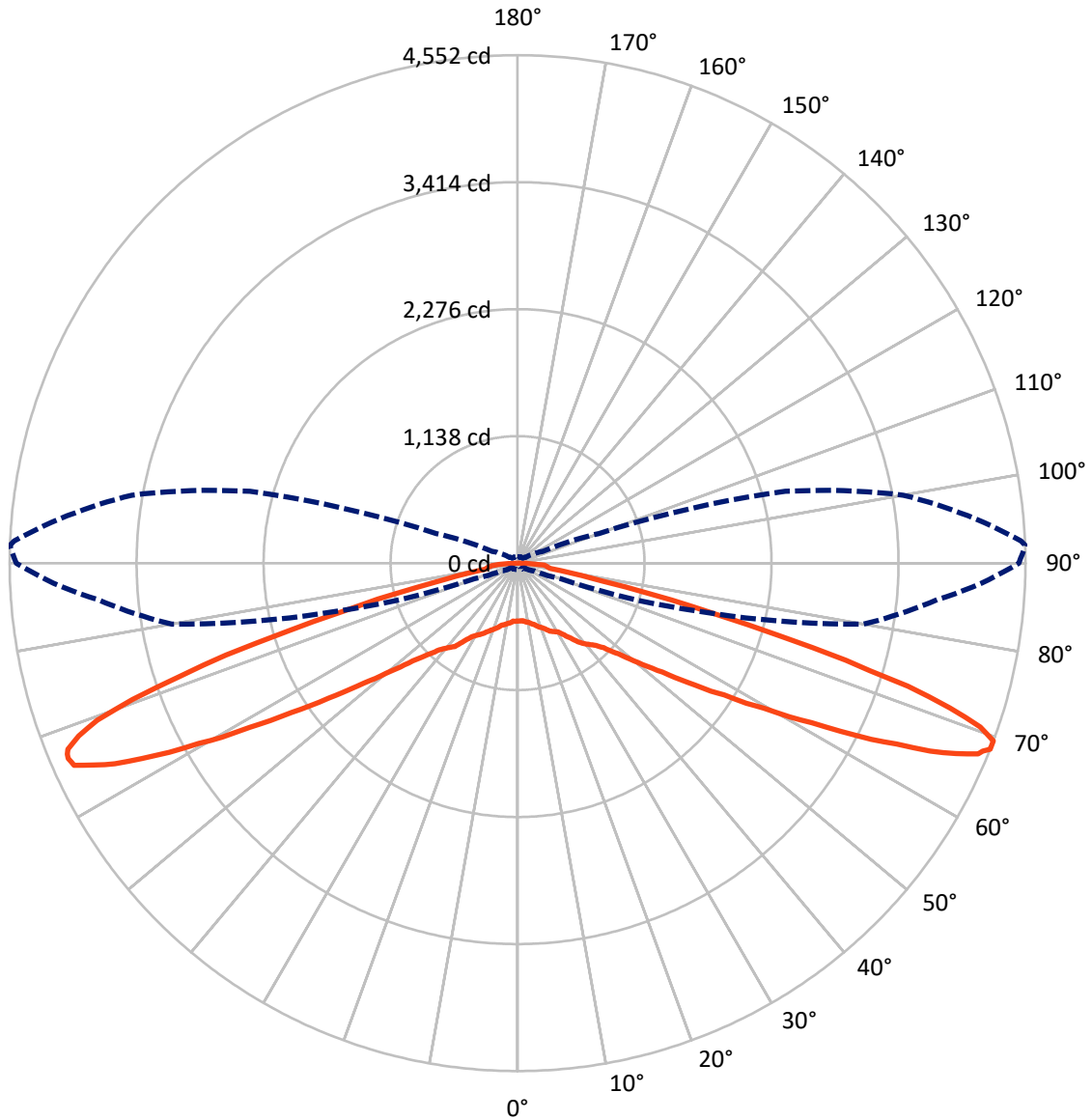
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 2.5 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	1666.7	0.0	1666.7
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1569.7	0.0	1569.7
	% Fixture	48.5	0.0	48.5
Total	Lumens	3236.4	0.0	3236.4
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	51.8	1.6
10°-20°	167.9	5.2
20°-30°	286.5	8.9
30°-40°	400.1	12.4
40°-50°	508.9	15.7
50°-60°	643.4	19.9
60°-70°	793.5	24.5
70°-80°	346.6	10.7
80°-90°	37.6	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°	3236.4	100.0
0°-180°	3236.4	100.0



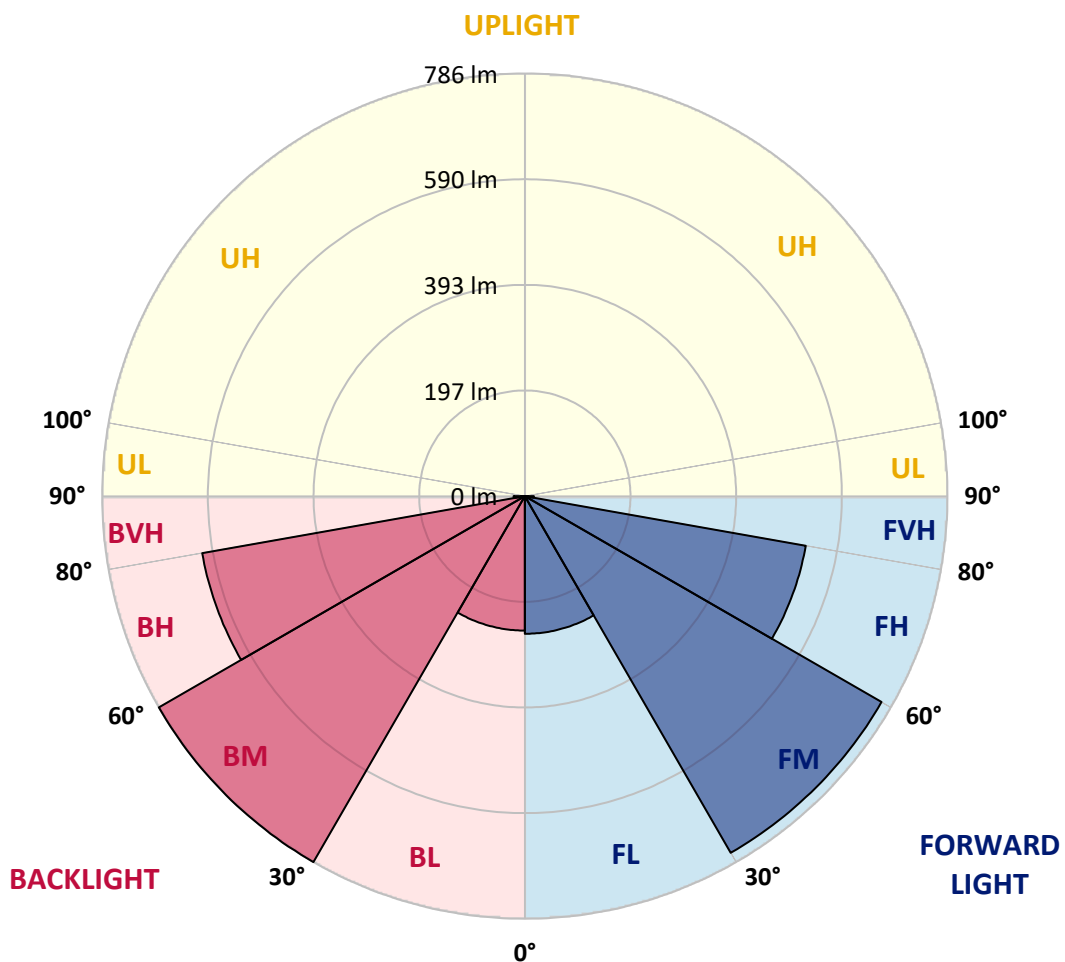
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	256.1	7.9			
FM (30°-60°)	766.2	23.7			
FH (60°-80°)	530.7	16.4			G0/660
FVH (80°-90°)	16.7	0.5			G1/100
BL (0°-30°)	250.1	7.7	B1/500		
BM (30°-60°)	786.2	24.3	B1/1000		
BH (60°-80°)	609.5	18.8	B2/1000		G2/1000
BVH (80°-90°)	20.9	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°	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5
2.5°	528.5	527.9	529.7	530.9	525.4	527.3	526.0	524.8	520.6	518.7	515.1
5°	543.0	544.9	550.9	545.5	547.9	544.9	535.1	538.2	532.7	531.5	527.9
7.5°	568.6	564.9	573.4	567.3	569.2	563.1	558.8	553.4	552.2	543.7	544.3
10°	574.0	581.3	585.0	583.7	585.0	588.0	580.1	571.6	560.1	557.6	549.1
12.5°	570.4	577.1	586.8	594.7	600.1	601.4	598.3	596.5	591.6	577.7	577.1
15°	566.7	561.9	567.9	595.3	613.5	625.7	629.9	619.6	620.8	602.6	595.3
17.5°	542.4	535.1	558.8	585.6	608.0	634.8	655.4	652.4	652.4	637.8	627.5
20°	510.2	522.4	534.5	568.6	609.9	650.0	689.4	687.6	680.3	676.1	653.6
22.5°	482.9	488.4	510.9	546.7	598.3	654.2	701.0	734.4	717.4	700.4	687.0
25°	464.1	459.2	487.8	524.8	587.4	646.9	722.8	757.5	766.6	753.8	728.3
27.5°	437.4	437.4	459.8	495.1	552.2	643.3	744.1	797.0	810.3	791.5	754.4
30°	407.0	410.6	430.1	470.2	526.0	616.5	752.6	842.5	853.4	837.0	798.8
32.5°	383.3	383.3	405.2	447.7	507.8	604.4	747.1	887.5	908.1	896.0	856.5
35°	357.8	356.0	371.7	418.5	478.7	580.7	745.3	923.3	969.5	970.1	928.8
37.5°	321.3	328.6	348.7	385.7	455.6	557.6	739.9	966.4	1049.0	1063.0	1034.5
40°	297.0	300.1	318.3	359.0	419.7	530.3	732.0	1001.7	1101.9	1149.9	1110.4
42.5°	261.8	266.1	280.0	330.4	385.1	491.4	697.3	1026.6	1177.2	1231.9	1198.5
45°	224.7	227.2	247.8	289.1	348.1	445.2	660.3	1066.7	1250.1	1361.9	1342.4
47.5°	180.4	181.6	199.2	242.4	303.7	399.1	603.2	1064.8	1309.0	1491.9	1546.5
50°	140.9	144.0	157.3	192.6	250.3	342.6	537.0	1050.2	1383.1	1640.1	1747.6
52.5°	112.4	113.0	121.5	149.4	193.2	286.1	465.9	1004.1	1453.0	1785.2	1994.2
55°	92.9	92.9	97.8	114.8	148.2	217.5	382.7	927.5	1461.5	1945.6	2263.3
56°	89.3	88.1	92.3	106.9	133.6	196.2	343.8	875.9	1473.6	2019.7	2398.1
57°	84.4	85.0	87.5	97.8	120.3	173.7	300.7	825.5	1465.1	2080.5	2497.8
58°	82.0	80.8	85.6	92.3	106.3	154.3	270.9	766.0	1451.8	2130.3	2642.9
59°	78.4	77.8	80.8	86.9	99.0	137.3	234.5	701.6	1425.6	2194.7	2751.1
60°	77.1	76.5	77.8	82.6	91.1	120.3	206.5	626.3	1355.8	2260.9	2885.3
61°	73.5	74.1	76.5	79.6	86.3	108.1	185.9	549.1	1310.2	2316.7	3033.5
62°	74.1	72.9	74.1	76.5	81.4	99.6	162.8	473.2	1228.8	2379.9	3144.7
63°	70.5	69.9	71.7	74.7	77.1	89.9	142.1	408.8	1136.5	2394.5	3238.8
64°	69.2	68.6	69.2	73.5	74.1	84.4	125.7	349.3	1002.9	2419.4	3359.7
65°	66.2	66.2	67.4	69.2	71.7	79.6	112.4	303.1	869.8	2353.8	3396.8
66°	63.8	64.4	64.4	67.4	69.2	74.1	103.3	257.6	742.3	2249.3	3432.6
67°	62.0	62.0	62.6	65.0	66.8	69.9	92.9	222.9	626.3	2124.8	3377.3
67.5°	60.7	61.4	61.4	63.8	65.6	69.9	88.7	211.4	560.1	1988.1	3336.0
68°	58.9	59.5	59.5	62.0	63.8	67.4	85.6	193.2	516.3	1899.4	3259.5
69°	57.7	57.1	57.1	59.5	62.0	64.4	79.6	168.9	410.6	1651.6	3147.7
70°	54.1	54.1	55.3	57.1	58.9	61.4	73.5	148.8	347.5	1367.3	2859.8
71°	52.2	51.6	52.2	54.1	55.9	58.9	67.4	131.8	284.3	1135.3	2576.7
72°	48.6	49.8	49.8	51.6	53.5	55.3	63.2	114.8	238.7	907.5	2265.1
72.5°	48.0	48.0	48.6	50.4	51.6	54.7	60.7	109.9	218.1	800.0	2134.5
73°	46.2	46.2	46.8	48.6	49.8	52.8	58.9	99.0	198.6	711.9	1890.3
74°	44.3	43.7	43.7	46.2	46.8	49.8	55.3	87.5	166.4	536.4	1517.4
75°	41.3	41.3	41.9	43.1	43.7	46.2	51.0	77.8	140.3	416.1	1186.9



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	34.0	34.6	35.2	36.4	36.4	38.3	41.9	54.1	85.6	210.8	544.9
80°	24.9	26.1	27.9	29.8	29.2	29.2	32.8	38.9	51.0	94.8	209.0
82.5°	20.0	21.3	19.4	21.9	21.9	20.7	23.7	28.5	34.6	46.8	74.7
85°	13.4	14.0	11.5	13.4	12.8	12.8	15.8	17.0	21.3	26.1	37.1
87.5°	6.1	6.1	4.9	5.5	5.5	5.5	7.9	6.1	9.1	12.8	21.9
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°	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5	517.5
2.5°	518.7	521.2	521.2	518.7	516.9	518.7	517.5	514.5	517.5	518.7	519.4
5°	526.0	521.2	523.6	518.1	521.8	521.2	520.0	523.0	523.6	523.6	527.9
7.5°	533.9	540.0	532.1	532.7	534.5	527.3	529.7	530.9	528.5	533.3	537.0
10°	547.9	550.3	547.9	538.8	544.9	540.0	538.2	543.7	542.4	543.7	549.1
12.5°	560.7	564.9	558.2	557.6	554.6	550.3	552.8	552.2	560.7	561.9	568.6
15°	586.8	575.8	573.4	572.8	571.6	569.8	571.0	571.6	582.5	584.3	600.1
17.5°	609.3	607.4	594.1	598.9	598.9	591.6	588.6	598.9	607.4	616.5	627.5
20°	632.3	630.5	615.9	616.5	611.1	617.8	614.1	623.8	638.4	641.4	651.2
22.5°	659.7	651.8	641.4	642.7	644.5	639.6	637.2	650.6	665.1	673.6	674.2
25°	702.8	682.8	674.2	675.5	673.0	669.4	671.2	688.2	695.5	713.7	710.1
27.5°	725.9	714.3	708.3	694.3	694.9	689.4	696.7	722.2	736.8	750.8	722.8
30°	753.8	746.5	719.8	714.9	714.3	711.9	725.3	758.1	779.9	787.8	747.7
32.5°	808.5	779.3	772.7	768.4	758.7	761.7	768.4	811.5	846.2	844.3	770.8
35°	871.1	851.0	832.2	828.5	827.3	818.8	830.4	880.8	907.5	899.6	779.3
37.5°	971.3	940.9	915.4	901.4	899.0	892.9	920.3	960.3	995.0	964.0	786.0
40°	1020.5	986.5	962.8	954.3	956.1	964.6	991.3	1052.7	1067.9	1010.8	791.5
42.5°	1090.9	1053.9	1007.1	1002.9	997.4	1001.7	1053.3	1135.9	1148.7	1073.9	770.8
45°	1216.1	1160.2	1106.1	1081.8	1083.1	1094.6	1174.8	1265.3	1241.6	1117.7	738.0
47.5°	1374.0	1292.0	1248.3	1215.5	1231.3	1218.5	1346.1	1418.4	1337.6	1173.0	697.9
50°	1611.5	1496.7	1437.2	1397.7	1404.4	1415.3	1544.7	1606.0	1443.9	1199.7	636.6
52.5°	1911.0	1763.4	1675.9	1623.1	1627.9	1651.6	1818.7	1799.8	1565.4	1222.2	554.6
55°	2269.4	2117.5	1948.0	1926.2	1920.7	1977.2	2161.2	2002.7	1674.7	1186.3	469.5
56°	2458.9	2297.3	2121.2	2076.2	2062.8	2102.3	2318.6	2104.1	1712.4	1146.2	428.8
57°	2619.9	2465.6	2272.4	2195.9	2212.9	2287.0	2474.7	2199.5	1747.0	1104.9	390.6
58°	2841.0	2664.8	2460.7	2402.4	2387.2	2446.1	2642.9	2295.5	1758.5	1062.4	355.3
59°	3061.5	2850.1	2666.0	2559.7	2564.0	2671.5	2808.8	2409.7	1776.1	1008.3	310.4
60°	3229.1	3122.8	2876.8	2797.2	2786.3	2941.8	2974.0	2486.2	1795.0	935.4	278.8
61°	3466.6	3328.1	3099.1	2996.5	3026.2	3150.7	3152.6	2582.2	1767.0	843.1	239.9
62°	3637.3	3600.9	3360.3	3262.5	3253.4	3418.6	3338.4	2666.6	1742.7	755.6	212.0
63°	3837.1	3837.1	3617.9	3541.3	3545.6	3676.2	3419.2	2751.1	1714.8	659.1	186.5
64°	3941.0	4071.6	3869.3	3761.8	3789.8	3902.7	3563.2	2806.3	1628.5	561.3	164.0
65°	4030.9	4227.1	4114.7	4064.9	4022.4	4089.2	3687.7	2858.0	1496.7	477.4	145.8
66°	4106.8	4373.5	4336.5	4283.0	4278.7	4263.6	3712.0	2856.1	1360.6	403.3	127.6
67°	4068.6	4376.5	4444.0	4466.4	4459.8	4299.4	3669.5	2791.1	1186.3	340.8	113.6
67.5°	4034.0	4351.6	4508.4	4495.6	4523.5	4329.8	3676.8	2711.6	1062.4	308.6	106.9
68°	4003.6	4318.2	4534.5	4550.9	4536.9	4333.4	3636.7	2648.4	978.0	289.7	100.8
69°	3773.4	4159.7	4492.6	4551.5	4515.6	4194.3	3509.1	2483.8	776.9	247.2	92.9
70°	3542.5	3954.4	4289.1	4397.2	4352.9	3925.2	3348.2	2222.0	640.8	211.4	83.8
71°	3223.0	3572.9	4018.2	4083.2	4029.7	3619.1	3015.3	1945.6	498.7	179.2	74.7
72°	2789.3	3086.4	3511.6	3668.9	3589.9	3178.7	2678.8	1607.9	403.9	150.6	68.0
72.5°	2574.3	2878.6	3288.6	3301.4	3316.6	2987.3	2536.0	1412.3	352.3	139.7	66.2
73°	2370.2	2668.4	3023.2	3068.1	3003.8	2664.8	2322.8	1262.9	321.9	127.6	63.8
74°	1920.7	2090.8	2384.8	2428.5	2372.0	2172.8	1898.2	968.2	256.3	109.9	58.3
75°	1511.3	1604.8	1870.9	1844.2	1759.7	1689.9	1471.8	739.9	207.7	96.6	54.1



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	679.1	735.6	779.9	779.9	784.8	749.0	678.5	339.6	128.2	69.9	44.3
80°	258.8	289.7	299.5	300.1	304.3	315.3	293.4	167.0	75.9	49.8	35.8
82.5°	187.7	262.4	282.5	267.9	269.1	243.0	112.4	74.1	48.0	34.6	26.1
85°	170.1	228.4	241.8	239.9	240.5	224.7	66.2	36.4	27.9	21.9	18.2
87.5°	82.6	80.8	85.6	96.6	94.2	122.1	55.9	18.2	12.1	9.1	9.1
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):

	135°	145°	155°	165°	175°	180°
0°	517.5	517.5	517.5	517.5	517.5	517.5
2.5°	514.5	513.9	522.4	513.9	518.7	515.1
5°	520.6	523.0	524.8	528.5	520.0	528.5
7.5°	538.8	541.2	541.8	544.9	541.2	540.6
10°	552.8	558.8	562.5	550.3	557.6	557.0
12.5°	580.1	574.0	573.4	571.0	564.3	561.9
15°	599.5	590.4	585.0	575.2	567.3	564.3
17.5°	626.9	609.3	586.8	566.7	552.8	541.8
20°	643.9	612.3	567.3	543.7	522.4	527.3
22.5°	654.8	609.3	549.7	519.4	498.1	504.2
25°	658.5	594.1	537.6	499.9	479.3	475.0
27.5°	648.1	576.5	513.9	471.4	453.1	456.8
30°	643.3	550.9	492.0	450.1	425.8	429.5
32.5°	630.5	524.8	462.9	420.3	402.7	396.7
35°	612.3	503.0	434.9	394.8	373.6	368.7
37.5°	589.8	475.6	410.6	362.0	343.2	339.6
40°	556.4	442.8	375.4	333.5	311.6	311.0
42.5°	527.3	411.2	342.6	299.5	277.6	278.8
45°	490.2	368.7	304.9	267.9	246.0	247.2
47.5°	442.8	329.2	269.1	227.8	209.6	208.3
50°	386.9	284.3	225.4	190.1	174.9	171.9
52.5°	333.5	238.7	184.7	153.1	140.3	139.1
55°	266.1	185.9	144.0	120.3	110.6	111.2
56°	241.8	171.3	131.2	109.9	102.7	102.7
57°	218.7	151.9	119.1	101.4	94.8	94.8
58°	193.2	133.6	108.1	91.7	88.7	86.3
59°	175.5	121.5	97.8	86.9	82.0	81.4
60°	154.9	109.3	91.1	81.4	77.8	77.1
61°	137.3	98.4	83.8	75.9	74.7	74.7
62°	122.7	91.1	77.8	73.5	72.9	71.1
63°	109.9	83.8	74.7	69.9	68.0	69.9
64°	98.4	77.1	72.3	68.6	66.2	67.4
65°	89.3	74.1	69.2	66.8	64.4	65.0
66°	83.2	69.2	66.8	63.8	62.6	63.2
67°	75.3	66.8	64.4	61.4	60.7	61.4
67.5°	72.9	65.0	63.2	60.1	59.5	60.1
68°	71.1	63.8	62.6	59.5	58.9	58.3
69°	66.2	61.4	59.5	58.3	57.1	56.5
70°	62.0	58.9	57.7	55.9	54.7	54.1
71°	59.5	55.9	55.3	53.5	52.2	51.6
72°	56.5	54.1	52.8	50.4	49.8	50.4
72.5°	55.9	52.8	52.2	49.8	49.2	49.2
73°	54.1	50.4	51.0	48.6	47.4	48.6
74°	50.4	49.2	48.0	46.2	45.6	45.6
75°	47.4	46.2	44.9	43.7	43.7	43.7



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	40.1	39.5	40.1	37.7	37.1	36.4
80°	32.2	32.2	32.8	31.0	29.8	29.2
82.5°	24.3	24.9	26.1	24.3	23.1	21.9
85°	15.8	16.4	16.4	14.6	17.0	15.8
87.5°	7.9	8.5	7.9	7.3	8.5	8.5
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)