

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: P676092

Luminaire Tested: **CCW-SA-2A-722-U-T1**

Issue Date: 04/25/2023

Test Information

Test Method: LM-79-08
Report Number: P676092
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-722-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (32) 2200K CCT, 70 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

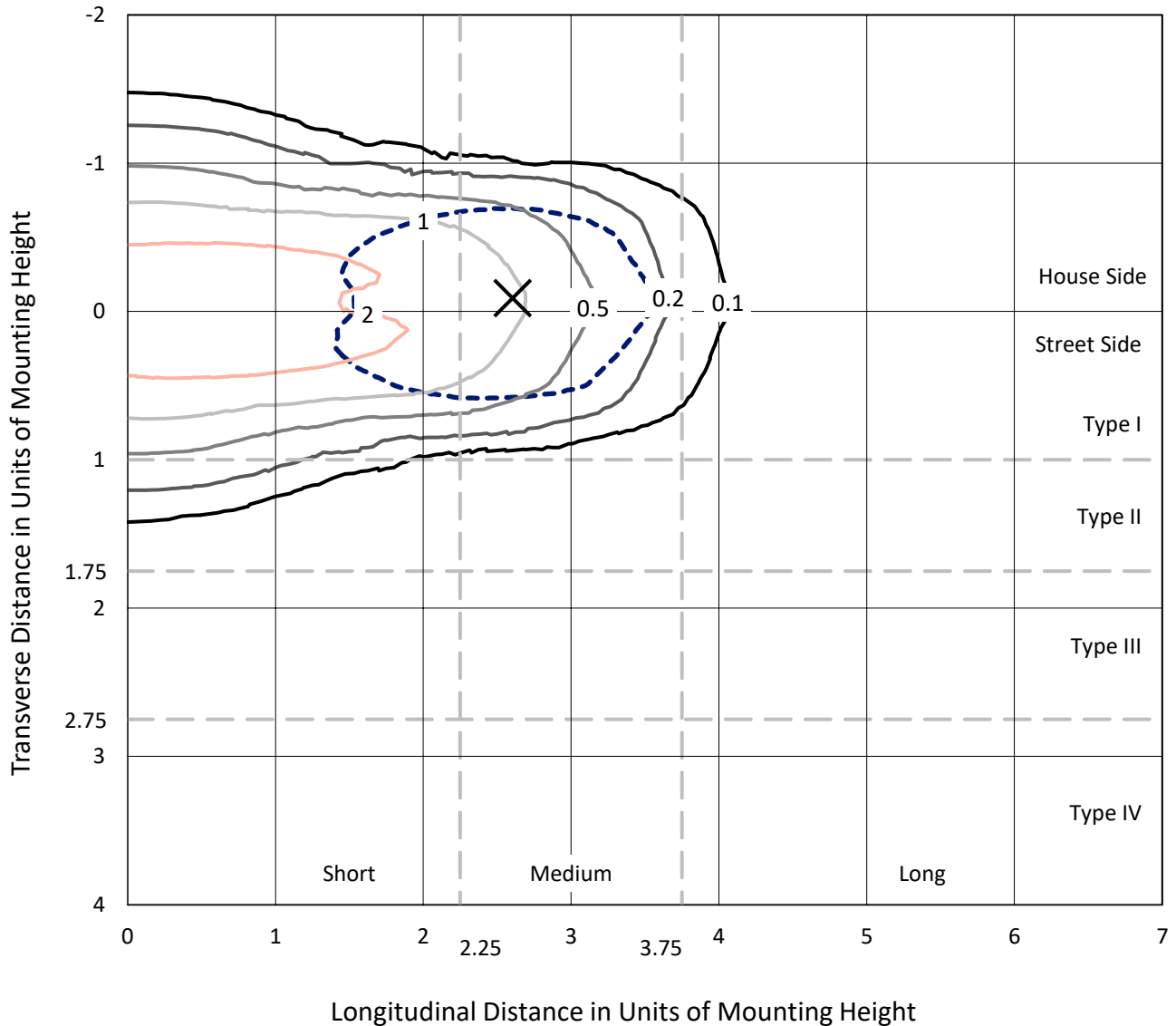
Lumens per Lamp: N/A
Luminaire Lumens: 3924.7 lumens
Efficiency: N/A
Efficacy: 108.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 36.2
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

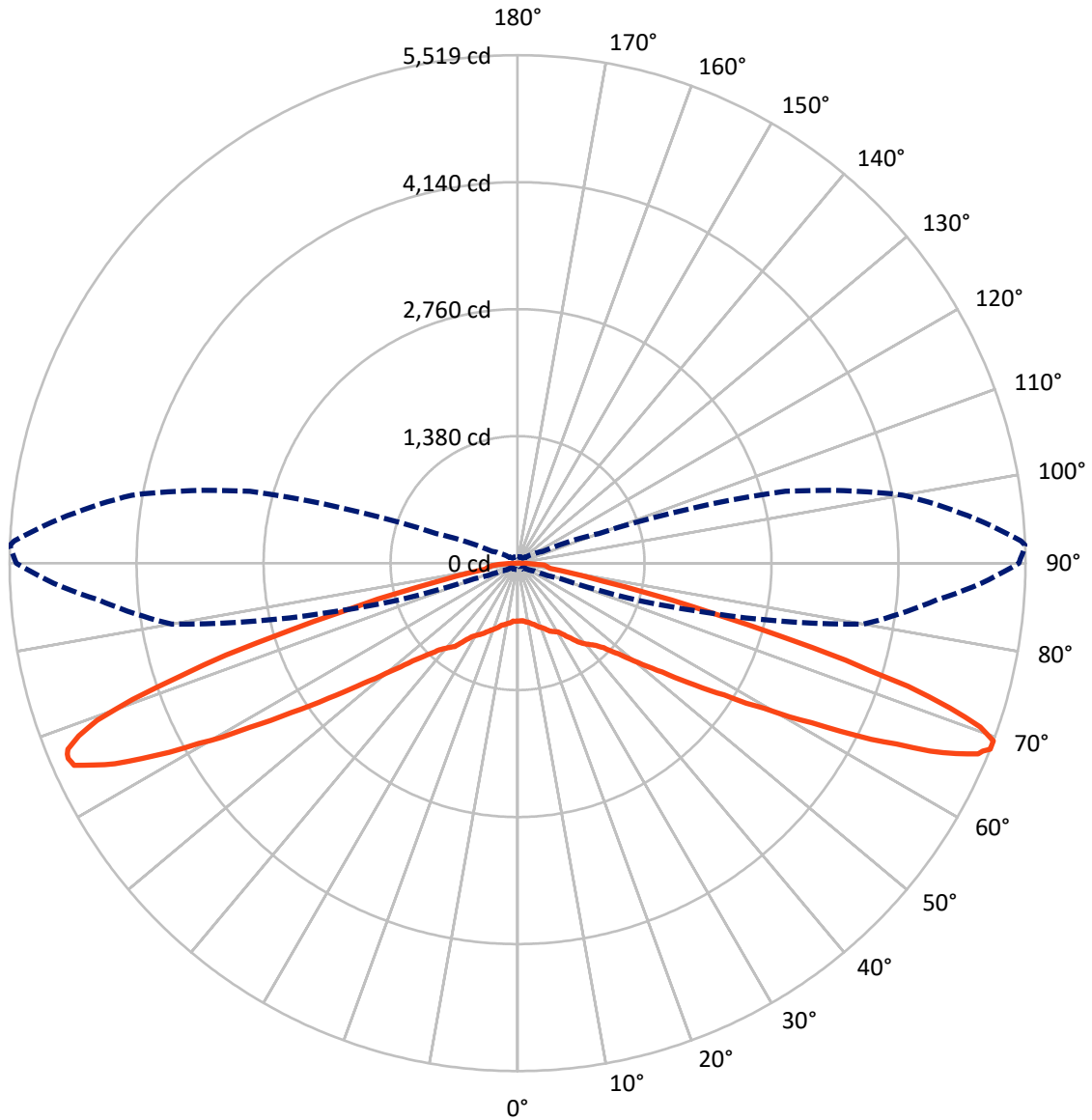
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3 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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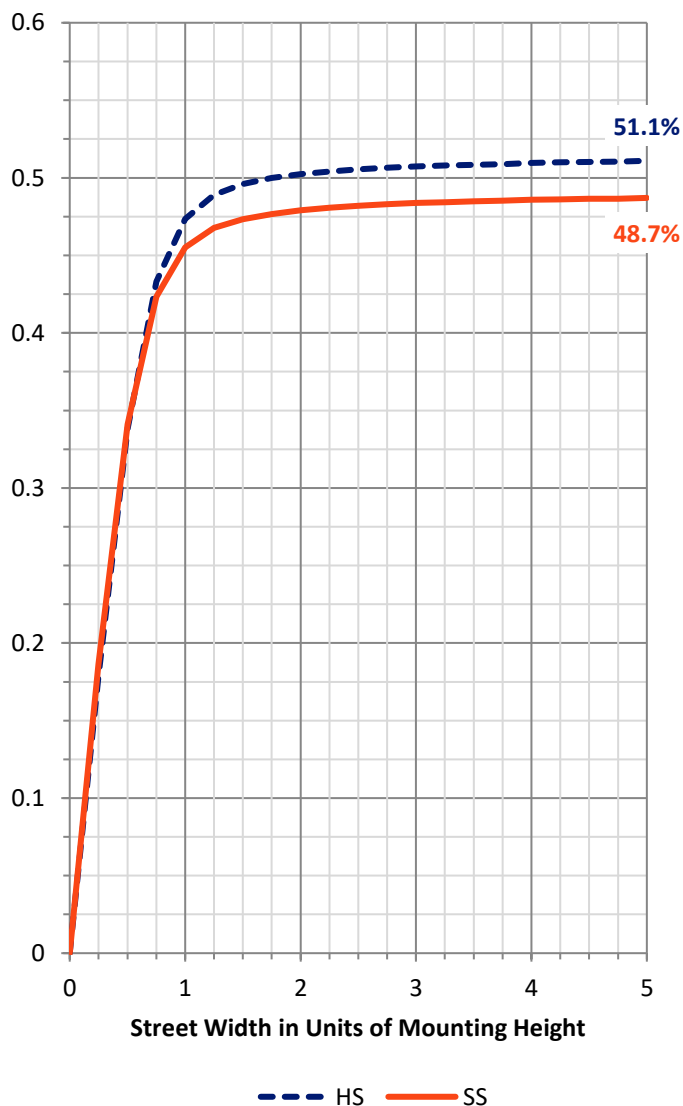
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2021.2	0.0	2021.2
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	1903.6	0.0	1903.6
	% Fixture	48.5	0.0	48.5
Total	Lumens	3924.7	0.0	3924.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	62.9	1.6
10°-20°	203.6	5.2
20°-30°	347.5	8.9
30°-40°	485.1	12.4
40°-50°	617.1	15.7
50°-60°	780.3	19.9
60°-70°	962.3	24.5
70°-80°	420.4	10.7
80°-90°	45.6	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°	3924.7	100.0
0°-180°	3924.7	100.0



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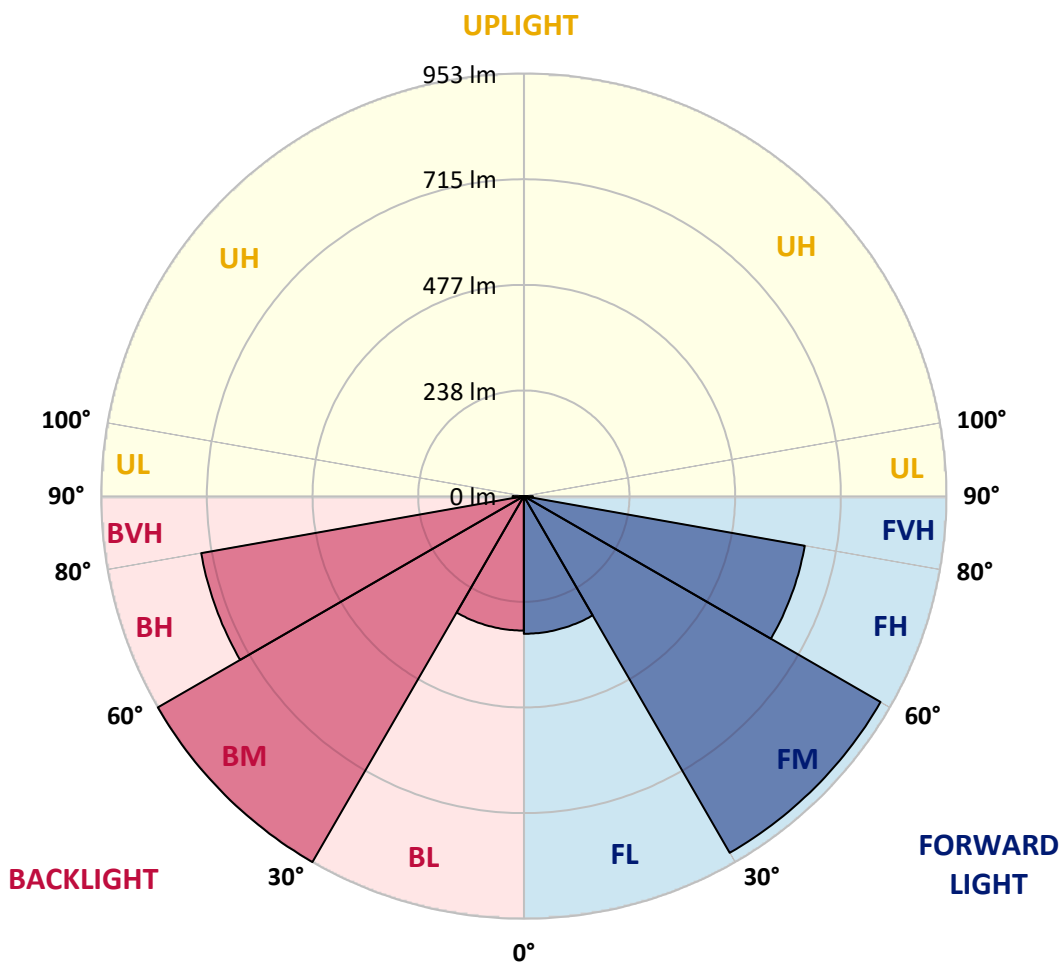
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	310.6	7.9			
FM (30°-60°)	929.1	23.7			
FH (60°-80°)	643.6	16.4			G0/660
FVH (80°-90°)	20.2	0.5			G1/100
BL (0°-30°)	303.3	7.7	B1/500		
BM (30°-60°)	953.4	24.3	B1/1000		
BH (60°-80°)	739.1	18.8	B2/1000		G2/1000
BVH (80°-90°)	25.4	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°	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6
2.5°	640.9	640.1	642.3	643.8	637.2	639.4	637.9	636.4	631.3	629.1	624.6
5°	658.5	660.7	668.1	661.5	664.4	660.7	649.0	652.6	646.0	644.5	640.1
7.5°	689.5	685.1	695.4	688.0	690.2	682.8	677.7	671.1	669.6	659.3	660.0
10°	696.1	704.9	709.4	707.9	709.4	713.0	703.5	693.2	679.2	676.2	665.9
12.5°	691.7	699.8	711.6	721.1	727.8	729.2	725.6	723.4	717.5	700.5	699.8
15°	687.3	681.4	688.7	721.9	744.0	758.7	763.9	751.3	752.8	730.7	721.9
17.5°	657.8	649.0	677.7	710.1	737.4	769.8	794.8	791.1	791.1	773.4	760.9
20°	618.8	633.5	648.2	689.5	739.6	788.2	836.1	833.8	825.0	819.9	792.6
22.5°	585.6	592.2	619.5	663.0	725.6	793.3	850.1	890.6	869.9	849.3	833.1
25°	562.8	556.9	591.5	636.4	712.3	784.5	876.6	918.6	929.6	914.1	883.2
27.5°	530.4	530.4	557.6	600.3	669.6	780.1	902.4	966.4	982.6	959.8	914.9
30°	493.5	498.0	521.5	570.1	637.9	747.7	912.7	1021.7	1034.9	1015.1	968.6
32.5°	464.8	464.8	491.3	542.9	615.8	732.9	906.0	1076.2	1101.2	1086.5	1038.6
35°	433.9	431.7	450.8	507.5	580.5	704.2	903.8	1119.7	1175.6	1176.4	1126.3
37.5°	389.7	398.5	422.8	467.7	552.5	676.2	897.2	1172.0	1272.1	1289.1	1254.5
40°	360.2	363.9	386.0	435.3	509.0	643.1	887.6	1214.7	1336.2	1394.4	1346.5
42.5°	317.5	322.6	339.6	400.7	467.0	595.9	845.6	1244.9	1427.6	1493.9	1453.3
45°	272.5	275.5	300.5	350.6	422.1	539.9	800.7	1293.5	1516.0	1651.5	1627.9
47.5°	218.8	220.2	241.6	293.9	368.3	484.0	731.5	1291.3	1587.4	1809.1	1875.4
50°	170.9	174.6	190.8	233.5	303.5	415.5	651.2	1273.6	1677.3	1988.9	2119.2
52.5°	136.3	137.0	147.3	181.2	234.2	346.9	565.0	1217.6	1762.0	2164.9	2418.3
55°	112.7	112.7	118.6	139.2	179.7	263.7	464.1	1124.8	1772.3	2359.4	2744.6
56°	108.3	106.8	112.0	129.6	162.1	237.9	416.9	1062.2	1787.0	2449.2	2908.2
57°	102.4	103.1	106.1	118.6	145.8	210.7	364.6	1001.1	1776.7	2522.9	3029.0
58°	99.4	98.0	103.9	112.0	128.9	187.1	328.5	928.9	1760.5	2583.3	3205.0
59°	95.0	94.3	98.0	105.3	120.1	166.5	284.3	850.8	1728.8	2661.4	3336.1
60°	93.5	92.8	94.3	100.2	110.5	145.8	250.4	759.4	1644.1	2741.7	3498.9
61°	89.1	89.9	92.8	96.5	104.6	131.1	225.4	665.9	1588.9	2809.4	3678.6
62°	89.9	88.4	89.9	92.8	98.7	120.8	197.4	573.8	1490.2	2886.1	3813.4
63°	85.4	84.7	86.9	90.6	93.5	109.0	172.4	495.7	1378.2	2903.7	3927.6
64°	84.0	83.2	84.0	89.1	89.9	102.4	152.5	423.6	1216.1	2933.9	4074.2
65°	80.3	80.3	81.8	84.0	86.9	96.5	136.3	367.6	1054.8	2854.4	4119.1
66°	77.3	78.1	78.1	81.8	84.0	89.9	125.2	312.3	900.1	2727.7	4162.6
67°	75.1	75.1	75.9	78.8	81.0	84.7	112.7	270.3	759.4	2576.7	4095.6
67.5°	73.7	74.4	74.4	77.3	79.6	84.7	107.5	256.3	679.2	2410.9	4045.5
68°	71.5	72.2	72.2	75.1	77.3	81.8	103.9	234.2	626.1	2303.4	3952.7
69°	70.0	69.2	69.2	72.2	75.1	78.1	96.5	204.8	498.0	2002.9	3817.1
70°	65.6	65.6	67.0	69.2	71.5	74.4	89.1	180.5	421.3	1658.1	3468.0
71°	63.3	62.6	63.3	65.6	67.8	71.5	81.8	159.8	344.7	1376.7	3124.7
72°	58.9	60.4	60.4	62.6	64.8	67.0	76.6	139.2	289.5	1100.5	2746.8
72.5°	58.2	58.2	58.9	61.1	62.6	66.3	73.7	133.3	264.4	970.1	2588.5
73°	56.0	56.0	56.7	58.9	60.4	64.1	71.5	120.1	240.9	863.3	2292.3
74°	53.8	53.0	53.0	56.0	56.7	60.4	67.0	106.1	201.8	650.4	1840.1
75°	50.1	50.1	50.8	52.3	53.0	56.0	61.9	94.3	170.2	504.6	1439.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	41.3	42.0	42.7	44.2	44.2	46.4	50.8	65.6	103.9	255.6	660.7
80°	30.2	31.7	33.9	36.1	35.4	35.4	39.8	47.1	61.9	114.9	253.4
82.5°	24.3	25.8	23.6	26.5	26.5	25.0	28.7	34.6	42.0	56.7	90.6
85°	16.2	16.9	14.0	16.2	15.5	15.5	19.2	20.6	25.8	31.7	44.9
87.5°	7.4	7.4	5.9	6.6	6.6	6.6	9.6	7.4	11.0	15.5	26.5
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°	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6	627.6
2.5°	629.1	632.0	632.0	629.1	626.9	629.1	627.6	623.9	627.6	629.1	629.8
5°	637.9	632.0	635.0	628.3	632.8	632.0	630.5	634.2	635.0	635.0	640.1
7.5°	647.5	654.8	645.3	646.0	648.2	639.4	642.3	643.8	640.9	646.7	651.2
10°	664.4	667.4	664.4	653.4	660.7	654.8	652.6	659.3	657.8	659.3	665.9
12.5°	679.9	685.1	676.9	676.2	672.5	667.4	670.3	669.6	679.9	681.4	689.5
15°	711.6	698.3	695.4	694.6	693.2	690.9	692.4	693.2	706.4	708.6	727.8
17.5°	738.8	736.6	720.4	726.3	726.3	717.5	713.8	726.3	736.6	747.7	760.9
20°	766.8	764.6	746.9	747.7	741.0	749.1	744.7	756.5	774.2	777.9	789.6
22.5°	800.0	790.4	777.9	779.3	781.5	775.7	772.7	788.9	806.6	816.9	817.6
25°	852.3	828.0	817.6	819.1	816.2	811.7	814.0	834.6	843.4	865.5	861.1
27.5°	880.3	866.3	858.9	841.9	842.7	836.1	844.9	875.8	893.5	910.5	876.6
30°	914.1	905.3	872.9	867.0	866.3	863.3	879.5	919.3	945.8	955.4	906.8
32.5°	980.4	945.1	937.0	931.8	920.0	923.7	931.8	984.1	1026.1	1023.9	934.8
35°	1056.3	1032.0	1009.2	1004.7	1003.3	993.0	1007.0	1068.1	1100.5	1090.9	945.1
37.5°	1177.8	1141.0	1110.1	1093.1	1090.2	1082.8	1116.0	1164.6	1206.6	1169.0	953.2
40°	1237.5	1196.3	1167.5	1157.2	1159.4	1169.7	1202.2	1276.6	1295.0	1225.7	959.8
42.5°	1323.0	1278.0	1221.3	1216.1	1209.5	1214.7	1277.3	1377.5	1392.9	1302.3	934.8
45°	1474.7	1406.9	1341.4	1311.9	1313.4	1327.4	1424.6	1534.4	1505.6	1355.4	895.0
47.5°	1666.2	1566.8	1513.7	1474.0	1493.1	1477.6	1632.3	1720.0	1622.0	1422.4	846.4
50°	1954.2	1815.0	1742.8	1694.9	1703.1	1716.3	1873.2	1947.6	1750.9	1454.8	772.0
52.5°	2317.4	2138.4	2032.3	1968.2	1974.1	2002.9	2205.4	2182.6	1898.3	1482.1	672.5
55°	2752.0	2567.8	2362.3	2335.8	2329.2	2397.7	2620.9	2428.6	2030.8	1438.6	569.4
56°	2981.8	2785.9	2572.3	2517.7	2501.5	2549.4	2811.7	2551.6	2076.5	1390.0	520.0
57°	3177.0	2989.9	2755.7	2662.9	2683.5	2773.4	3001.0	2667.3	2118.5	1339.9	473.6
58°	3445.1	3231.5	2984.0	2913.3	2894.9	2966.3	3205.0	2783.7	2132.5	1288.3	430.9
59°	3712.5	3456.2	3233.0	3104.1	3109.2	3239.6	3406.1	2922.1	2153.9	1222.8	376.4
60°	3915.8	3786.9	3488.6	3392.1	3378.8	3567.4	3606.5	3015.0	2176.7	1134.4	338.1
61°	4203.9	4035.9	3758.2	3633.7	3669.8	3820.8	3823.0	3131.3	2142.8	1022.4	291.0
62°	4410.8	4366.6	4074.9	3956.4	3945.3	4145.7	4048.4	3233.7	2113.3	916.3	257.1
63°	4653.2	4653.2	4387.3	4294.5	4299.6	4458.0	4146.4	3336.1	2079.5	799.2	226.1
64°	4779.2	4937.5	4692.2	4561.8	4595.7	4732.7	4321.0	3403.2	1974.9	680.6	198.9
65°	4888.2	5126.1	4989.8	4929.4	4877.9	4958.9	4472.0	3465.8	1815.0	579.0	176.8
66°	4980.2	5303.6	5258.7	5193.9	5188.7	5170.3	4501.4	3463.6	1650.0	489.1	154.7
67°	4933.8	5307.3	5389.1	5416.3	5408.2	5213.8	4449.9	3384.7	1438.6	413.2	137.7
67.5°	4891.9	5277.1	5467.1	5451.7	5485.6	5250.6	4458.7	3288.2	1288.3	374.2	129.6
68°	4855.0	5236.6	5498.8	5518.7	5501.8	5255.0	4410.1	3211.6	1185.9	351.4	122.3
69°	4575.8	5044.3	5448.0	5519.4	5476.0	5086.3	4255.4	3012.0	942.1	299.8	112.7
70°	4295.9	4795.4	5201.2	5332.3	5278.6	4760.0	4060.2	2694.5	777.1	256.3	101.7
71°	3908.5	4332.8	4872.7	4951.5	4886.7	4388.7	3656.6	2359.4	604.8	217.3	90.6
72°	3382.5	3742.7	4258.4	4449.1	4353.4	3854.7	3248.5	1949.8	489.8	182.7	82.5
72.5°	3121.8	3490.8	3988.0	4003.5	4021.9	3622.7	3075.4	1712.6	427.2	169.4	80.3
73°	2874.3	3235.9	3666.1	3720.6	3642.6	3231.5	2816.8	1531.4	390.4	154.7	77.3
74°	2329.2	2535.4	2891.9	2945.0	2876.5	2634.9	2301.9	1174.2	310.9	133.3	70.7
75°	1832.7	1946.1	2268.8	2236.4	2134.0	2049.3	1784.8	897.2	251.9	117.1	65.6



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	823.5	892.0	945.8	945.8	951.7	908.2	822.8	411.8	155.4	84.7	53.8
80°	313.8	351.4	363.2	363.9	369.0	382.3	355.8	202.6	92.1	60.4	43.5
82.5°	227.6	318.2	342.5	324.8	326.3	294.6	136.3	89.9	58.2	42.0	31.7
85°	206.3	277.0	293.2	291.0	291.7	272.5	80.3	44.2	33.9	26.5	22.1
87.5°	100.2	98.0	103.9	117.1	114.2	148.1	67.8	22.1	14.7	11.0	11.0
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°	627.6	627.6	627.6	627.6	627.6	627.6
2.5°	623.9	623.2	633.5	623.2	629.1	624.6
5°	631.3	634.2	636.4	640.9	630.5	640.9
7.5°	653.4	656.3	657.1	660.7	656.3	655.6
10°	670.3	677.7	682.1	667.4	676.2	675.5
12.5°	703.5	696.1	695.4	692.4	684.3	681.4
15°	727.0	716.0	709.4	697.6	688.0	684.3
17.5°	760.2	738.8	711.6	687.3	670.3	657.1
20°	780.8	742.5	688.0	659.3	633.5	639.4
22.5°	794.1	738.8	666.6	629.8	604.0	611.4
25°	798.5	720.4	651.9	606.2	581.2	576.0
27.5°	786.0	699.0	623.2	571.6	549.5	553.9
30°	780.1	668.1	596.7	545.8	516.4	520.8
32.5°	764.6	636.4	561.3	509.7	488.4	481.0
35°	742.5	609.9	527.4	478.8	453.0	447.1
37.5°	715.3	576.8	498.0	439.0	416.2	411.8
40°	674.7	537.0	455.2	404.4	377.9	377.1
42.5°	639.4	498.7	415.5	363.2	336.6	338.1
45°	594.4	447.1	369.8	324.8	298.3	299.8
47.5°	537.0	399.2	326.3	276.2	254.1	252.7
50°	469.2	344.7	273.3	230.6	212.1	208.5
52.5°	404.4	289.5	223.9	185.6	170.2	168.7
55°	322.6	225.4	174.6	145.8	134.1	134.8
56°	293.2	207.7	159.1	133.3	124.5	124.5
57°	265.2	184.2	144.4	123.0	114.9	114.9
58°	234.2	162.1	131.1	111.2	107.5	104.6
59°	212.9	147.3	118.6	105.3	99.4	98.7
60°	187.8	132.6	110.5	98.7	94.3	93.5
61°	166.5	119.3	101.7	92.1	90.6	90.6
62°	148.8	110.5	94.3	89.1	88.4	86.2
63°	133.3	101.7	90.6	84.7	82.5	84.7
64°	119.3	93.5	87.7	83.2	80.3	81.8
65°	108.3	89.9	84.0	81.0	78.1	78.8
66°	100.9	84.0	81.0	77.3	75.9	76.6
67°	91.3	81.0	78.1	74.4	73.7	74.4
67.5°	88.4	78.8	76.6	72.9	72.2	72.9
68°	86.2	77.3	75.9	72.2	71.5	70.7
69°	80.3	74.4	72.2	70.7	69.2	68.5
70°	75.1	71.5	70.0	67.8	66.3	65.6
71°	72.2	67.8	67.0	64.8	63.3	62.6
72°	68.5	65.6	64.1	61.1	60.4	61.1
72.5°	67.8	64.1	63.3	60.4	59.7	59.7
73°	65.6	61.1	61.9	58.9	57.5	58.9
74°	61.1	59.7	58.2	56.0	55.2	55.2
75°	57.5	56.0	54.5	53.0	53.0	53.0



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	48.6	47.9	48.6	45.7	44.9	44.2
80°	39.0	39.0	39.8	37.6	36.1	35.4
82.5°	29.5	30.2	31.7	29.5	28.0	26.5
85°	19.2	19.9	19.9	17.7	20.6	19.2
87.5°	9.6	10.3	9.6	8.8	10.3	10.3
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)