

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: P676132

Luminaire Tested: **CCW-SA-1C-740-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676132
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-1C-740-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @615mA w/
T1 distribution lens
Light Source: (16) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

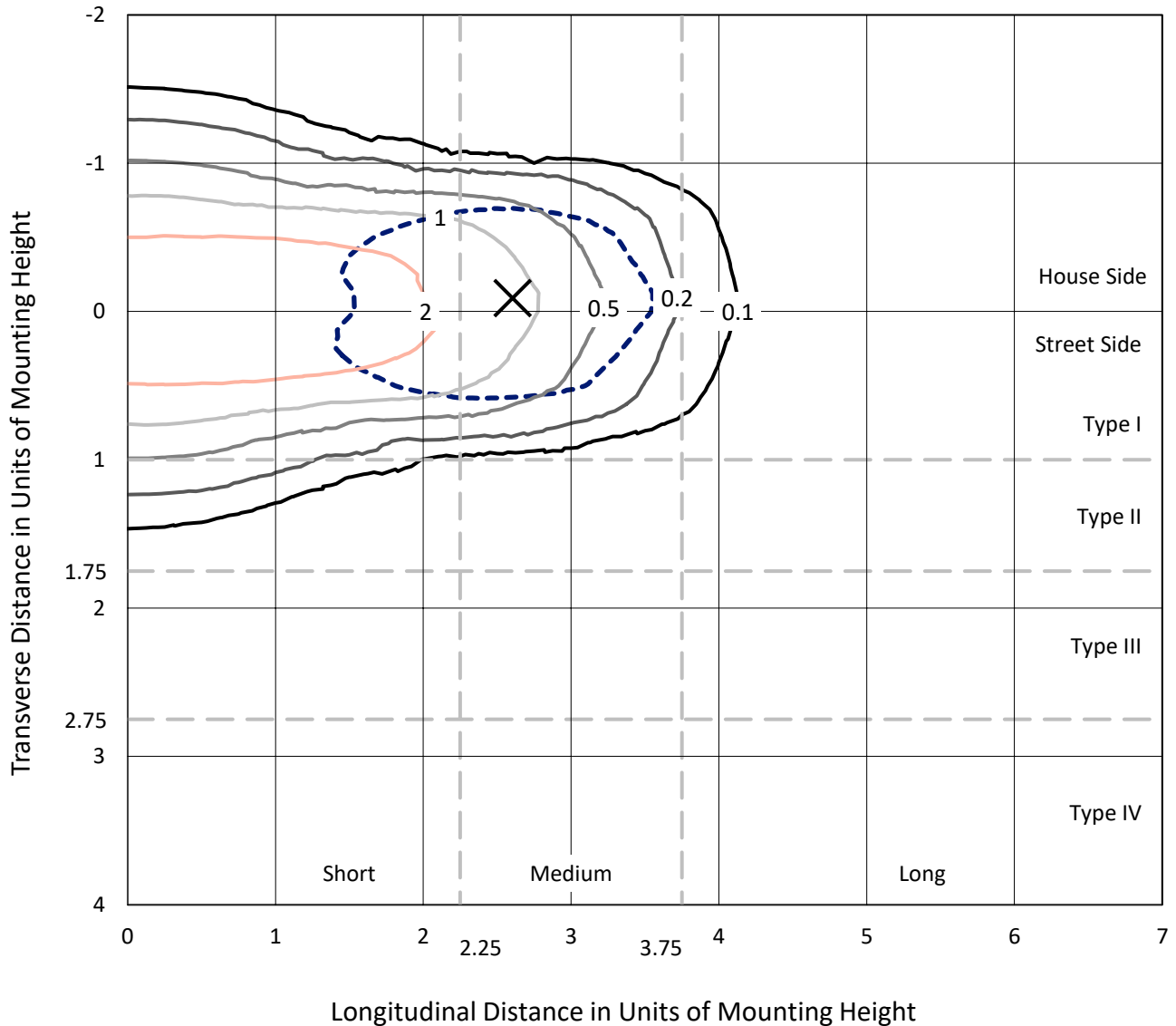
Lumens per Lamp: N/A
Luminaire Lumens: 4402.7 lumens
Efficiency: N/A
Efficacy: 137.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 32
Input Voltage (V): 120
Input Current (A_{in}): 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

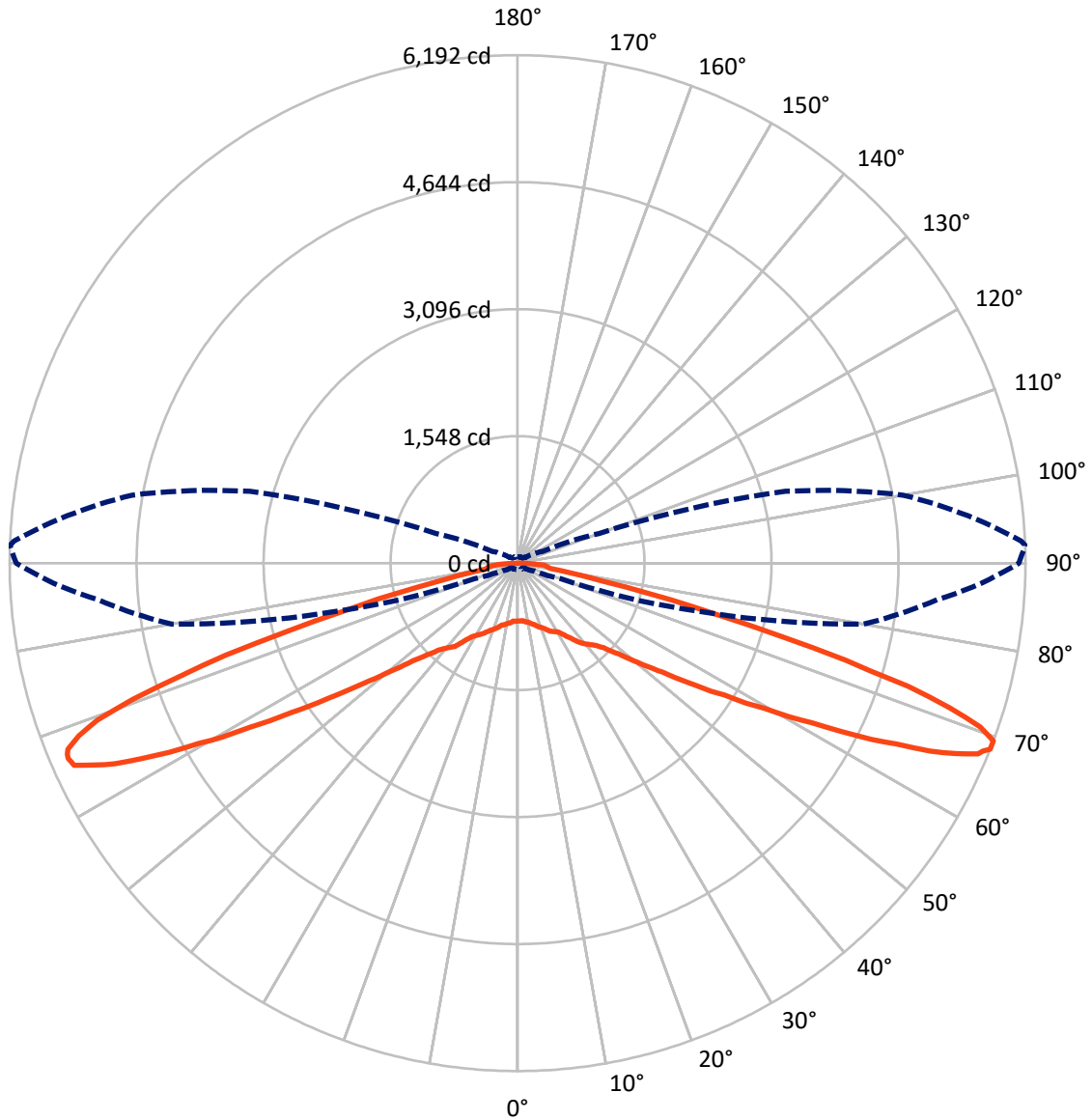
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.4 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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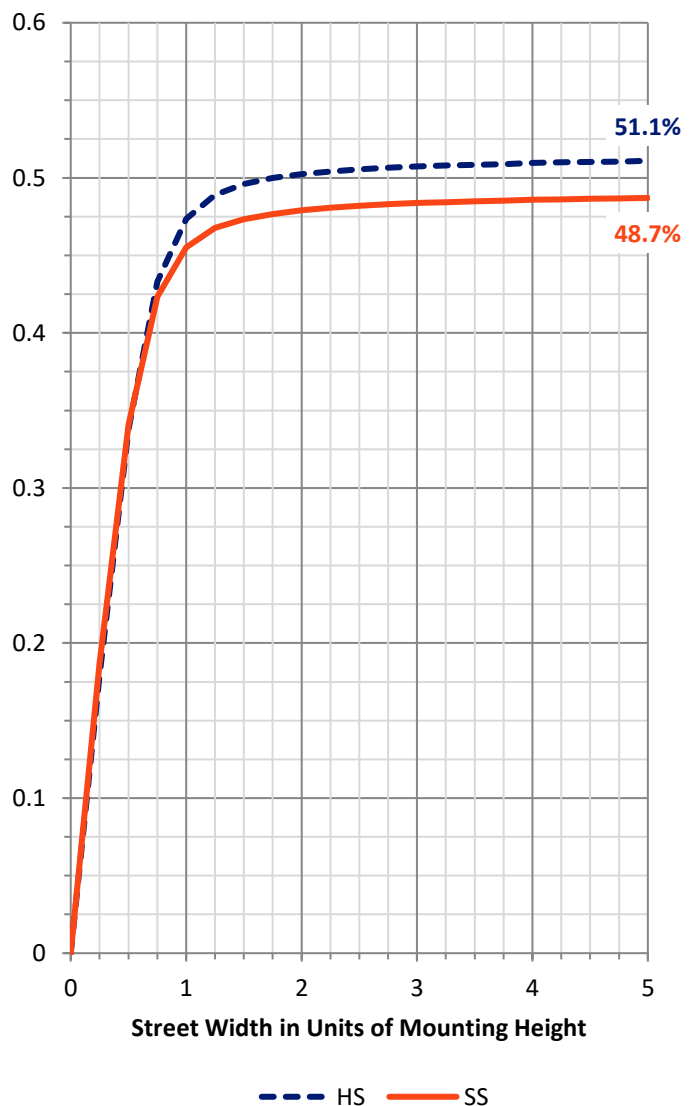
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2267.3	0.0	2267.3
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2135.4	0.0	2135.4
	% Fixture	48.5	0.0	48.5
Total	Lumens	4402.7	0.0	4402.7
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	70.5	1.6
10°-20°	228.4	5.2
20°-30°	389.8	8.9
30°-40°	544.2	12.4
40°-50°	692.3	15.7
50°-60°	875.3	19.9
60°-70°	1079.5	24.5
70°-80°	471.6	10.7
80°-90°	51.1	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°	4402.7	100.0
0°-180°	4402.7	100.0



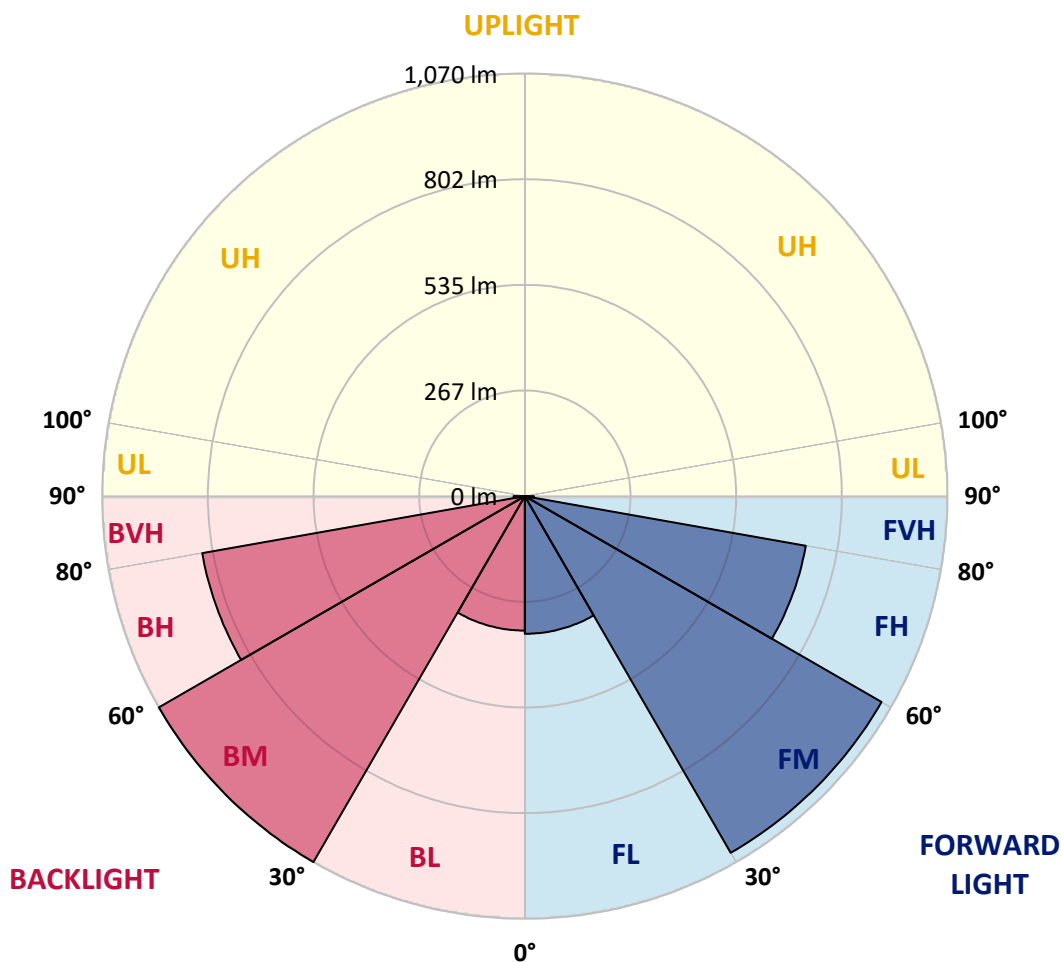
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Fixture	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	348.4	7.9			
FM	(30°-60°)	1042.3	23.7			
FH	(60°-80°)	722.0	16.4			G1/1800
FVH	(80°-90°)	22.7	0.5			G1/100
BL	(0°-30°)	340.2	7.7	B1/500		
BM	(30°-60°)	1069.5	24.3	B2/2500		
BH	(60°-80°)	829.1	18.8	B2/1000		G2/1000
BVH	(80°-90°)	28.5	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°	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
2.5°	718.9	718.1	720.6	722.2	714.8	717.3	715.6	713.9	708.2	705.7	700.7
5°	738.7	741.2	749.5	742.0	745.3	741.2	728.0	732.1	724.7	723.0	718.1
7.5°	773.4	768.5	780.1	771.8	774.3	766.0	760.2	752.8	751.1	739.6	740.4
10°	780.9	790.8	795.8	794.1	795.8	799.9	789.1	777.6	761.9	758.6	747.0
12.5°	775.9	785.0	798.2	809.0	816.4	818.1	813.9	811.5	804.8	785.8	785.0
15°	771.0	764.4	772.6	809.8	834.6	851.1	856.9	842.9	844.5	819.7	809.8
17.5°	737.9	728.0	760.2	796.6	827.2	863.5	891.6	887.5	887.5	867.6	853.6
20°	694.1	710.6	727.2	773.4	829.6	884.2	937.9	935.4	925.5	919.7	889.1
22.5°	656.9	664.4	694.9	743.7	813.9	890.0	953.6	999.0	975.9	952.8	934.6
25°	631.3	624.7	663.5	713.9	799.1	880.0	983.3	1030.4	1042.8	1025.5	990.8
27.5°	595.0	595.0	625.5	673.5	751.1	875.1	1012.2	1084.1	1102.3	1076.7	1026.3
30°	553.6	558.6	585.0	639.6	715.6	838.7	1023.8	1146.1	1161.0	1138.7	1086.6
32.5°	521.4	521.4	551.2	609.0	690.8	822.2	1016.4	1207.3	1235.4	1218.8	1165.1
35°	486.7	484.2	505.7	569.3	651.1	790.0	1013.9	1256.0	1318.8	1319.6	1263.5
37.5°	437.1	447.0	474.3	524.7	619.7	758.6	1006.5	1314.7	1427.1	1446.1	1407.2
40°	404.1	408.2	433.0	488.4	571.0	721.4	995.7	1362.6	1499.0	1564.2	1510.5
42.5°	356.1	361.9	380.9	449.5	523.9	668.5	948.6	1396.5	1601.4	1675.8	1630.3
45°	305.7	309.0	337.1	393.3	473.5	605.7	898.2	1451.0	1700.6	1852.6	1826.2
47.5°	245.4	247.1	271.0	329.7	413.2	542.9	820.5	1448.5	1780.7	2029.5	2103.8
50°	191.7	195.8	214.0	261.9	340.4	466.0	730.5	1428.7	1881.5	2231.1	2377.3
52.5°	152.9	153.7	165.3	203.3	262.8	389.2	633.8	1365.9	1976.6	2428.6	2712.8
55°	126.4	126.4	133.0	156.2	201.6	295.8	520.6	1261.8	1988.1	2646.7	3078.9
56°	121.5	119.8	125.6	145.4	181.8	266.9	467.7	1191.6	2004.7	2747.5	3262.3
57°	114.9	115.7	119.0	133.0	163.6	236.3	409.0	1123.0	1993.1	2830.2	3397.9
58°	111.6	109.9	116.5	125.6	144.6	209.9	368.5	1042.0	1974.9	2897.9	3595.3
59°	106.6	105.8	109.9	118.2	134.7	186.7	319.0	954.4	1939.4	2985.5	3742.4
60°	104.9	104.1	105.8	112.4	123.9	163.6	281.0	851.9	1844.4	3075.6	3925.0
61°	100.0	100.8	104.1	108.2	117.3	147.1	252.9	747.0	1782.4	3151.6	4126.7
62°	100.8	99.2	100.8	104.1	110.7	135.5	221.5	643.7	1671.7	3237.5	4277.9
63°	95.9	95.0	97.5	101.6	104.9	122.3	193.4	556.1	1546.1	3257.4	4406.0
64°	94.2	93.4	94.2	100.0	100.8	114.9	171.0	475.1	1364.3	3291.3	4570.4
65°	90.1	90.1	91.7	94.2	97.5	108.2	152.9	412.3	1183.3	3202.0	4620.8
66°	86.8	87.6	87.6	91.7	94.2	100.8	140.5	350.4	1009.8	3059.9	4669.6
67°	84.3	84.3	85.1	88.4	90.9	95.0	126.4	303.3	851.9	2890.5	4594.4
67.5°	82.6	83.5	83.5	86.8	89.2	95.0	120.6	287.6	761.9	2704.6	4538.2
68°	80.2	81.0	81.0	84.3	86.8	91.7	116.5	262.8	702.4	2583.9	4434.1
69°	78.5	77.7	77.7	81.0	84.3	87.6	108.2	229.7	558.6	2246.8	4282.0
70°	73.5	73.5	75.2	77.7	80.2	83.5	100.0	202.4	472.7	1860.1	3890.3
71°	71.1	70.2	71.1	73.5	76.0	80.2	91.7	179.3	386.7	1544.4	3505.3
72°	66.1	67.8	67.8	70.2	72.7	75.2	85.9	156.2	324.7	1234.5	3081.4
72.5°	65.3	65.3	66.1	68.6	70.2	74.4	82.6	149.6	296.7	1088.3	2903.7
73°	62.8	62.8	63.6	66.1	67.8	71.9	80.2	134.7	270.2	968.5	2571.5
74°	60.3	59.5	59.5	62.8	63.6	67.8	75.2	119.0	226.4	729.6	2064.2
75°	56.2	56.2	57.0	58.7	59.5	62.8	69.4	105.8	190.9	566.0	1614.6



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	46.3	47.1	47.9	49.6	49.6	52.1	57.0	73.5	116.5	286.7	741.2
80°	33.9	35.5	38.0	40.5	39.7	39.7	44.6	52.9	69.4	128.9	284.3
82.5°	27.3	28.9	26.4	29.7	29.7	28.1	32.2	38.8	47.1	63.6	101.6
85°	18.2	19.0	15.7	18.2	17.4	17.4	21.5	23.1	28.9	35.5	50.4
87.5°	8.3	8.3	6.6	7.4	7.4	7.4	10.7	8.3	12.4	17.4	29.7
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°	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0	704.0
2.5°	705.7	709.0	709.0	705.7	703.2	705.7	704.0	699.9	704.0	705.7	706.5
5°	715.6	709.0	712.3	704.9	709.8	709.0	707.3	711.5	712.3	712.3	718.1
7.5°	726.3	734.6	723.9	724.7	727.2	717.3	720.6	722.2	718.9	725.5	730.5
10°	745.3	748.7	745.3	733.0	741.2	734.6	732.1	739.6	737.9	739.6	747.0
12.5°	762.7	768.5	759.4	758.6	754.4	748.7	752.0	751.1	762.7	764.4	773.4
15°	798.2	783.4	780.1	779.2	777.6	775.1	776.7	777.6	792.4	794.9	816.4
17.5°	828.8	826.3	808.1	814.8	814.8	804.8	800.7	814.8	826.3	838.7	853.6
20°	860.2	857.7	837.9	838.7	831.3	840.4	835.4	848.6	868.5	872.6	885.8
22.5°	897.4	886.6	872.6	874.3	876.7	870.1	866.8	885.0	904.8	916.4	917.2
25°	956.1	928.8	917.2	918.9	915.6	910.6	913.1	936.2	946.1	970.9	966.0
27.5°	987.5	971.8	963.5	944.5	945.3	937.9	947.8	982.5	1002.3	1021.3	983.3
30°	1025.5	1015.6	979.2	972.6	971.8	968.5	986.6	1031.3	1061.0	1071.7	1017.2
32.5°	1099.8	1060.2	1051.1	1045.3	1032.1	1036.2	1045.3	1104.0	1151.1	1148.6	1048.6
35°	1185.0	1157.7	1132.1	1127.1	1125.5	1113.9	1129.6	1198.2	1234.5	1223.8	1060.2
37.5°	1321.3	1280.0	1245.3	1226.3	1223.0	1214.7	1251.9	1306.4	1353.5	1311.4	1069.3
40°	1388.2	1342.0	1309.7	1298.2	1300.6	1312.2	1348.6	1432.0	1452.7	1375.0	1076.7
42.5°	1484.1	1433.7	1370.0	1364.3	1356.8	1362.6	1432.8	1545.2	1562.6	1460.9	1048.6
45°	1654.3	1578.3	1504.7	1471.7	1473.3	1489.0	1598.1	1721.2	1689.0	1520.4	1004.0
47.5°	1869.1	1757.6	1698.1	1653.5	1675.0	1657.6	1831.1	1929.5	1819.6	1595.6	949.4
50°	2192.2	2036.1	1955.1	1901.4	1910.5	1925.3	2101.3	2184.8	1964.2	1632.0	866.0
52.5°	2599.6	2398.8	2279.8	2207.9	2214.6	2246.8	2474.0	2448.4	2129.4	1662.6	754.4
55°	3087.2	2880.6	2650.0	2620.3	2612.8	2689.7	2940.1	2724.4	2278.2	1613.8	638.7
56°	3345.0	3125.2	2885.5	2824.4	2806.2	2859.9	3154.1	2862.4	2329.4	1559.3	583.4
57°	3563.9	3354.1	3091.3	2987.2	3010.3	3111.1	3366.4	2992.1	2376.5	1503.1	531.3
58°	3864.7	3625.1	3347.4	3268.1	3247.5	3327.6	3595.3	3122.7	2392.2	1445.2	483.4
59°	4164.7	3877.1	3626.7	3482.1	3487.9	3634.2	3820.9	3278.0	2416.2	1371.7	422.3
60°	4392.7	4248.1	3913.5	3805.2	3790.4	4001.9	4045.7	3382.2	2441.8	1272.5	379.3
61°	4715.8	4527.4	4215.9	4076.3	4116.8	4286.2	4288.6	3512.7	2403.8	1146.9	326.4
62°	4948.0	4898.5	4571.2	4438.2	4425.8	4650.6	4541.5	3627.6	2370.7	1027.9	288.4
63°	5219.9	5219.9	4921.6	4817.5	4823.3	5000.9	4651.4	3742.4	2332.7	896.6	253.7
64°	5361.2	5538.9	5263.7	5117.4	5155.4	5309.1	4847.2	3817.6	2215.4	763.5	223.1
65°	5483.5	5750.4	5597.5	5529.8	5471.9	5562.8	5016.6	3887.9	2036.1	649.5	198.3
66°	5586.8	5949.5	5899.1	5826.4	5820.6	5800.0	5049.7	3885.4	1851.0	548.7	173.5
67°	5534.7	5953.7	6045.4	6076.0	6066.9	5848.7	4991.8	3797.0	1613.8	463.6	154.5
67.5°	5487.6	5919.8	6133.0	6115.6	6153.6	5890.0	5001.7	3688.7	1445.2	419.8	145.4
68°	5446.3	5874.3	6168.5	6190.8	6171.8	5895.0	4947.2	3602.8	1330.4	394.2	137.2
69°	5133.1	5658.7	6111.5	6191.7	6142.9	5705.8	4773.7	3378.8	1056.9	336.3	126.4
70°	4819.1	5379.4	5834.7	5981.8	5921.4	5339.7	4554.7	3022.7	871.8	287.6	114.0
71°	4384.5	4860.4	5466.1	5554.6	5481.8	4923.2	4101.9	2646.7	678.4	243.8	101.6
72°	3794.5	4198.6	4777.0	4991.0	4883.6	4324.2	3644.1	2187.3	549.5	204.9	92.5
72.5°	3502.0	3916.0	4473.7	4491.1	4511.7	4063.9	3449.9	1921.2	479.3	190.1	90.1
73°	3224.3	3630.0	4112.6	4173.8	4086.2	3625.1	3159.9	1717.9	438.0	173.5	86.8
74°	2612.8	2844.2	3244.2	3303.6	3226.8	2955.8	2582.3	1317.2	348.7	149.6	79.3
75°	2055.9	2183.2	2545.1	2508.7	2393.9	2298.8	2002.2	1006.5	282.6	131.4	73.5



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	923.8	1000.7	1061.0	1061.0	1067.6	1018.9	923.0	461.9	174.4	95.0	60.3
80°	352.0	394.2	407.4	408.2	414.0	428.9	399.1	227.2	103.3	67.8	48.8
82.5°	255.3	357.0	384.2	364.4	366.1	330.5	152.9	100.8	65.3	47.1	35.5
85°	231.4	310.7	328.9	326.4	327.2	305.7	90.1	49.6	38.0	29.7	24.8
87.5°	112.4	109.9	116.5	131.4	128.1	166.1	76.0	24.8	16.5	12.4	12.4
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°	704.0	704.0	704.0	704.0	704.0	704.0
2.5°	699.9	699.1	710.6	699.1	705.7	700.7
5°	708.2	711.5	713.9	718.9	707.3	718.9
7.5°	733.0	736.3	737.1	741.2	736.3	735.4
10°	752.0	760.2	765.2	748.7	758.6	757.7
12.5°	789.1	780.9	780.1	776.7	767.7	764.4
15°	815.6	803.2	795.8	782.5	771.8	767.7
17.5°	852.8	828.8	798.2	771.0	752.0	737.1
20°	875.9	832.9	771.8	739.6	710.6	717.3
22.5°	890.8	828.8	747.8	706.5	677.6	685.9
25°	895.7	808.1	731.3	680.1	652.0	646.2
27.5°	881.7	784.2	699.1	641.2	616.4	621.4
30°	875.1	749.5	669.3	612.3	579.3	584.2
32.5°	857.7	713.9	629.7	571.8	547.9	539.6
35°	832.9	684.2	591.6	537.1	508.2	501.6
37.5°	802.4	647.0	558.6	492.5	466.9	461.9
40°	756.9	602.4	510.7	453.7	423.9	423.1
42.5°	717.3	559.4	466.0	407.4	377.6	379.3
45°	666.8	501.6	414.8	364.4	334.7	336.3
47.5°	602.4	447.9	366.1	309.9	285.1	283.4
50°	526.4	386.7	306.6	258.6	238.0	233.9
52.5°	453.7	324.7	251.2	208.2	190.9	189.2
55°	361.9	252.9	195.8	163.6	150.4	151.2
56°	328.9	233.0	178.5	149.6	139.6	139.6
57°	297.5	206.6	162.0	138.0	128.9	128.9
58°	262.8	181.8	147.1	124.8	120.6	117.3
59°	238.8	165.3	133.0	118.2	111.6	110.7
60°	210.7	148.7	123.9	110.7	105.8	104.9
61°	186.7	133.9	114.0	103.3	101.6	101.6
62°	166.9	123.9	105.8	100.0	99.2	96.7
63°	149.6	114.0	101.6	95.0	92.5	95.0
64°	133.9	104.9	98.3	93.4	90.1	91.7
65°	121.5	100.8	94.2	90.9	87.6	88.4
66°	113.2	94.2	90.9	86.8	85.1	85.9
67°	102.5	90.9	87.6	83.5	82.6	83.5
67.5°	99.2	88.4	85.9	81.8	81.0	81.8
68°	96.7	86.8	85.1	81.0	80.2	79.3
69°	90.1	83.5	81.0	79.3	77.7	76.8
70°	84.3	80.2	78.5	76.0	74.4	73.5
71°	81.0	76.0	75.2	72.7	71.1	70.2
72°	76.8	73.5	71.9	68.6	67.8	68.6
72.5°	76.0	71.9	71.1	67.8	66.9	66.9
73°	73.5	68.6	69.4	66.1	64.5	66.1
74°	68.6	66.9	65.3	62.8	62.0	62.0
75°	64.5	62.8	61.1	59.5	59.5	59.5



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	54.5	53.7	54.5	51.2	50.4	49.6
80°	43.8	43.8	44.6	42.1	40.5	39.7
82.5°	33.1	33.9	35.5	33.1	31.4	29.7
85°	21.5	22.3	22.3	19.8	23.1	21.5
87.5°	10.7	11.6	10.7	9.9	11.6	11.6
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)