

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: P676114

Luminaire Tested: **CCW-SA-2A-730-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676114
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-730-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (32) 3000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

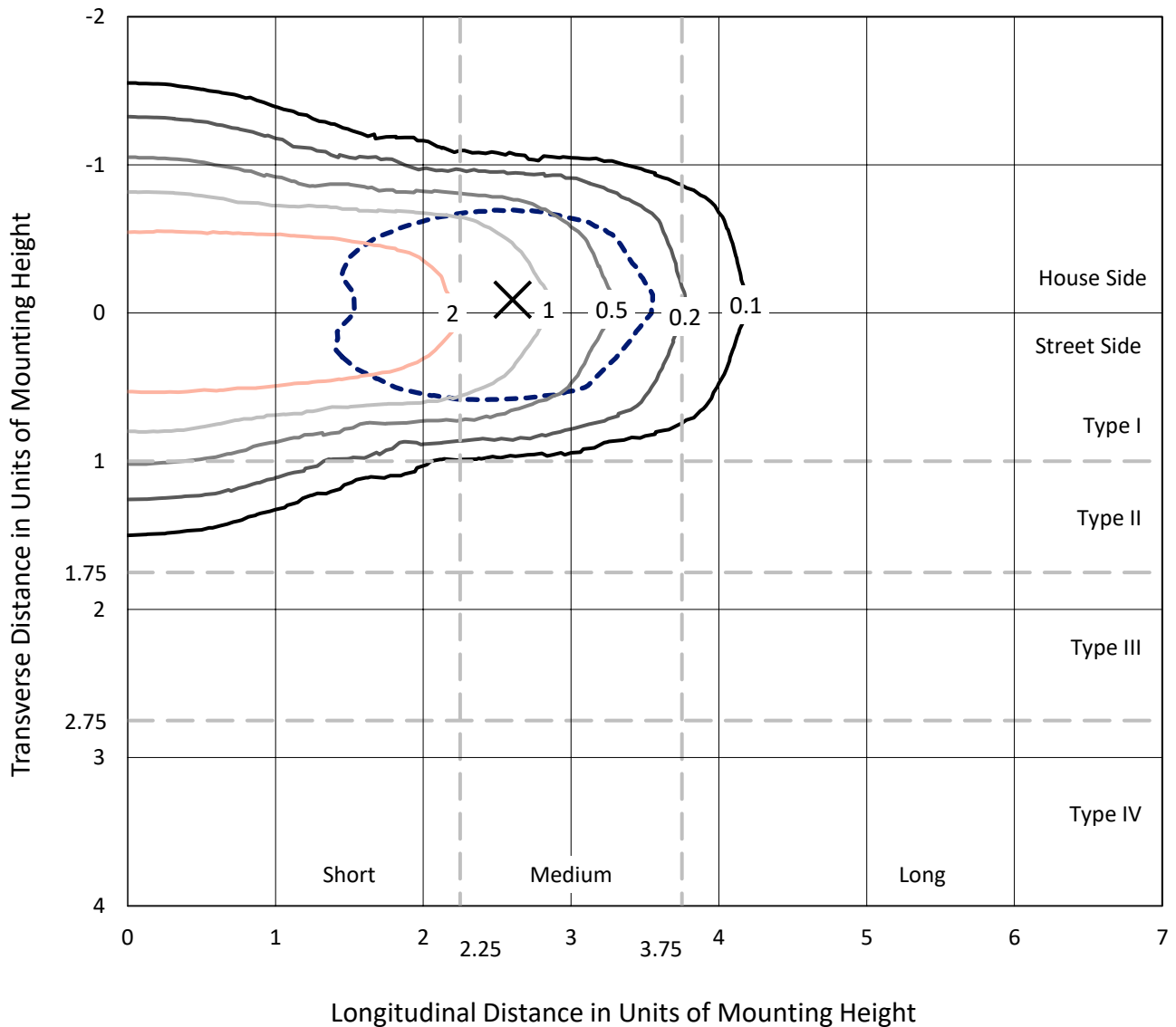
Lumens per Lamp: N/A
Luminaire Lumens: 4851.8 lumens
Efficiency: N/A
Efficacy: 134.0 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

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

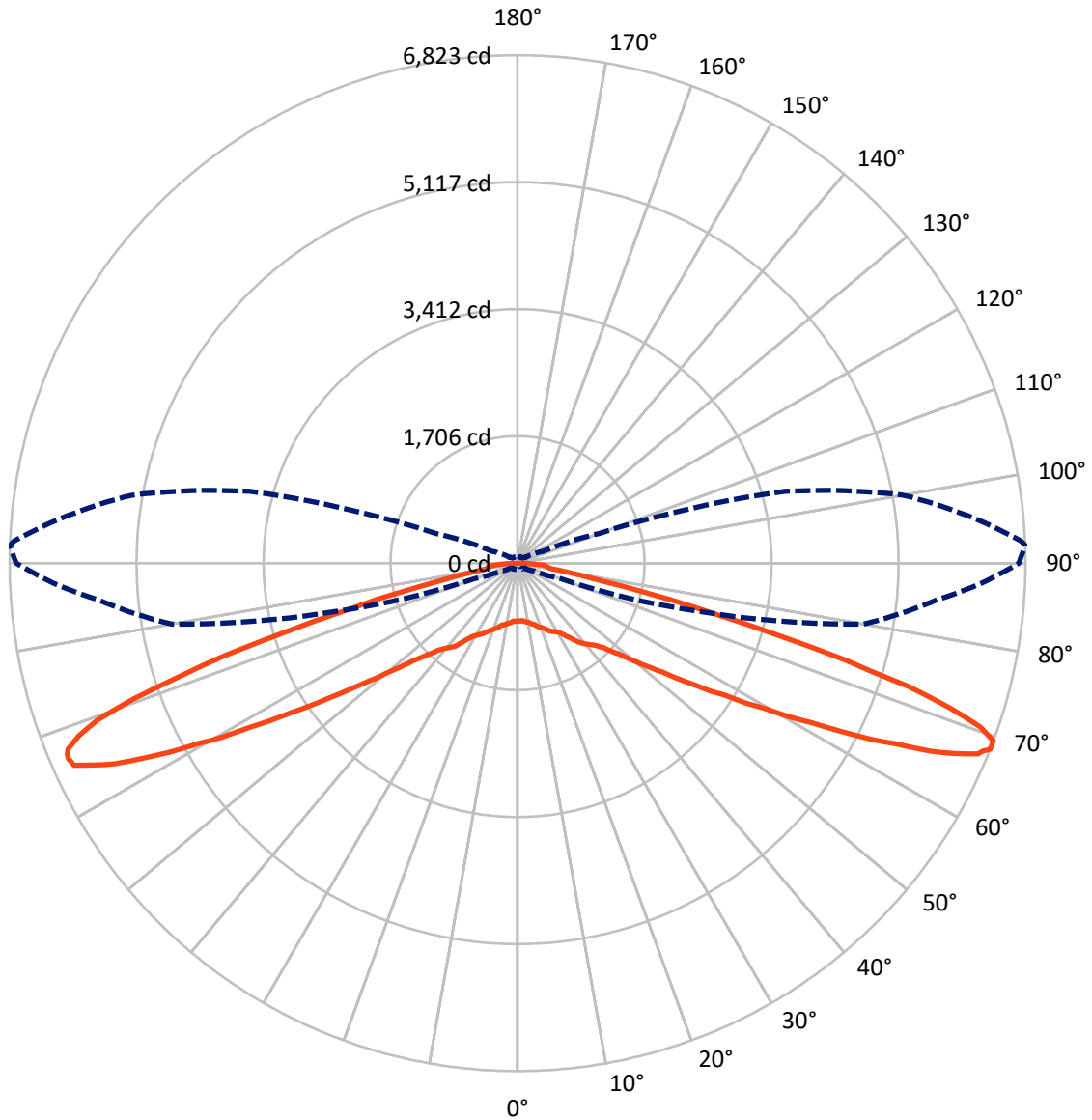
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.7 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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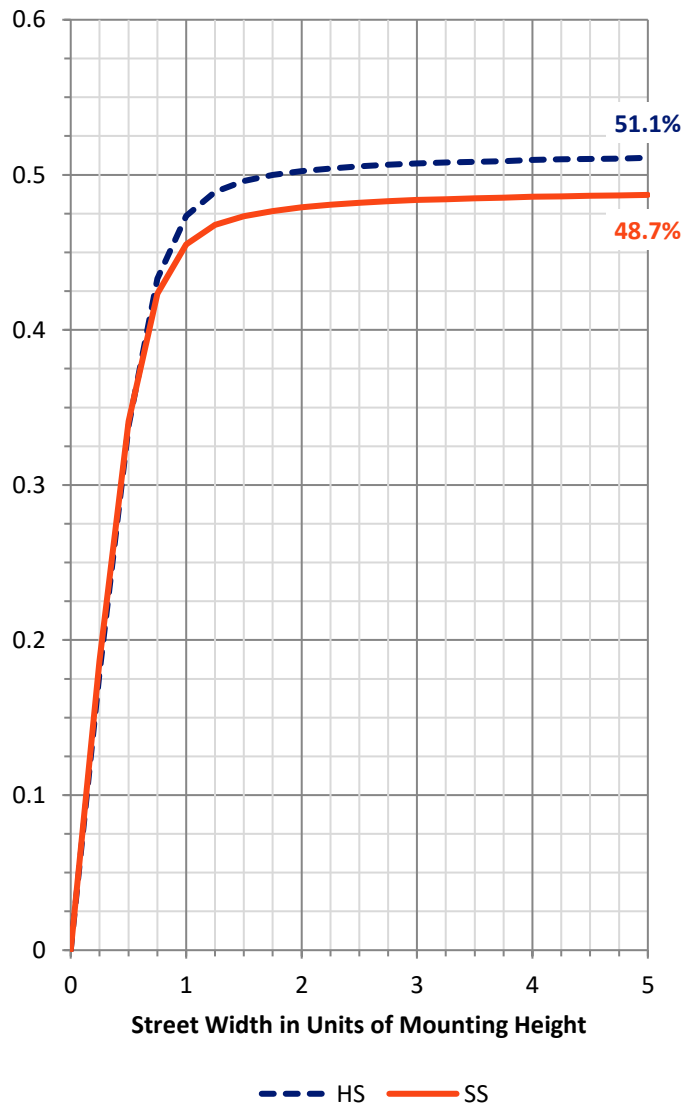
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2498.6	0.0	2498.6
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2353.2	0.0	2353.2
	% Fixture	48.5	0.0	48.5
Total	Lumens	4851.8	0.0	4851.8
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	77.7	1.6
10°-20°	251.7	5.2
20°-30°	429.5	8.9
30°-40°	599.7	12.4
40°-50°	762.9	15.7
50°-60°	964.6	19.9
60°-70°	1189.6	24.5
70°-80°	519.7	10.7
80°-90°	56.4	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°	4851.8	100.0
0°-180°	4851.8	100.0



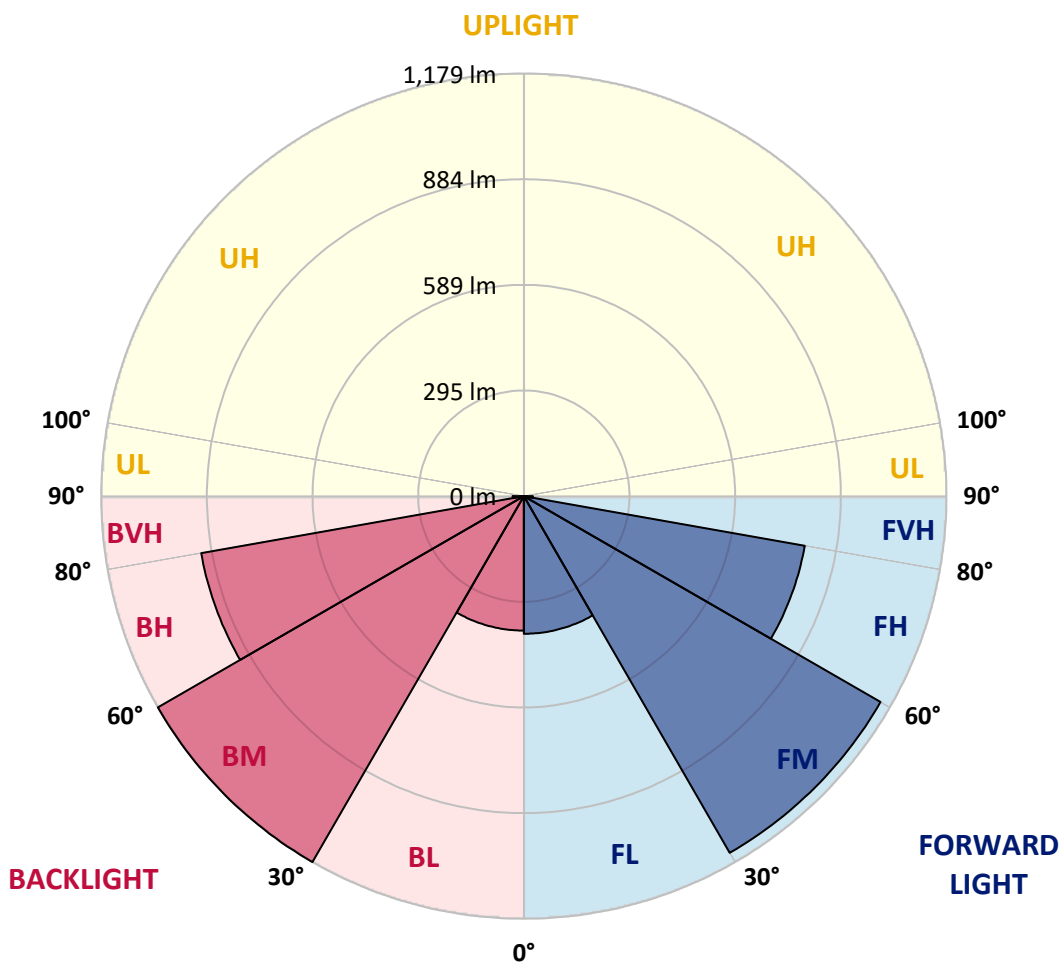
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	384.0	7.9			
FM (30°-60°)	1148.6	23.7			
FH (60°-80°)	795.6	16.4			G1/1800
FVH (80°-90°)	25.0	0.5			G1/100
BL (0°-30°)	375.0	7.7	B1/500		
BM (30°-60°)	1178.6	24.3	B2/2500		
BH (60°-80°)	913.7	18.8	B2/1000		G2/1000
BVH (80°-90°)	31.4	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°	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8
2.5°	792.2	791.3	794.1	795.9	787.7	790.4	788.6	786.8	780.4	777.7	772.2
5°	814.1	816.8	825.9	817.7	821.4	816.8	802.3	806.8	798.6	796.8	791.3
7.5°	852.3	846.9	859.6	850.5	853.2	844.1	837.8	829.6	827.8	815.0	815.9
10°	860.5	871.5	876.9	875.1	876.9	881.5	869.6	856.9	839.6	835.9	823.2
12.5°	855.1	865.1	879.7	891.5	899.7	901.5	897.0	894.2	886.9	866.0	865.1
15°	849.6	842.3	851.4	892.4	919.7	937.9	944.3	928.8	930.7	903.3	892.4
17.5°	813.2	802.3	837.8	877.8	911.5	951.6	982.6	978.0	978.0	956.1	940.7
20°	764.9	783.1	801.3	852.3	914.3	974.4	1033.6	1030.8	1019.9	1013.5	979.8
22.5°	723.9	732.1	765.8	819.6	897.0	980.7	1050.9	1100.9	1075.4	1049.9	1029.9
25°	695.7	688.4	731.2	786.8	880.6	969.8	1083.6	1135.5	1149.2	1130.1	1091.8
27.5°	655.6	655.6	689.3	742.2	827.8	964.3	1115.5	1194.7	1214.8	1186.5	1131.0
30°	610.1	615.6	644.7	704.8	788.6	924.3	1128.3	1263.0	1279.4	1254.8	1197.5
32.5°	574.6	574.6	607.4	671.1	761.3	906.1	1120.1	1330.4	1361.4	1343.2	1284.0
35°	536.4	533.6	557.3	627.4	717.6	870.5	1117.3	1384.1	1453.3	1454.3	1392.3
37.5°	481.7	492.6	522.7	578.2	683.0	835.9	1109.1	1448.8	1572.6	1593.6	1550.8
40°	445.3	449.8	477.2	538.2	629.2	795.0	1097.3	1501.6	1651.9	1723.8	1664.6
42.5°	392.5	398.9	419.8	495.4	577.3	736.7	1045.4	1538.9	1764.8	1846.7	1796.6
45°	336.9	340.6	371.5	433.5	521.8	667.5	989.8	1599.0	1874.0	2041.6	2012.5
47.5°	270.5	272.3	298.7	363.3	455.3	598.3	904.2	1596.3	1962.4	2236.5	2318.4
50°	211.3	215.8	235.8	288.7	375.2	513.6	805.0	1574.5	2073.5	2458.7	2619.8
52.5°	168.5	169.4	182.1	224.0	289.6	428.9	698.4	1505.2	2178.2	2676.3	2989.6
55°	139.3	139.3	146.6	172.1	222.2	326.0	573.7	1390.5	2190.9	2916.7	3393.0
56°	133.9	132.0	138.4	160.3	200.3	294.1	515.4	1313.1	2209.2	3027.8	3595.1
57°	126.6	127.5	131.1	146.6	180.3	260.4	450.8	1237.5	2196.4	3118.9	3744.5
58°	122.9	121.1	128.4	138.4	159.4	231.3	406.1	1148.3	2176.4	3193.5	3962.1
59°	117.5	116.6	121.1	130.2	148.4	205.8	351.5	1051.8	2137.2	3290.1	4124.2
60°	115.6	114.7	116.6	123.8	136.6	180.3	309.6	938.8	2032.5	3389.3	4325.4
61°	110.2	111.1	114.7	119.3	129.3	162.1	278.6	823.2	1964.2	3473.1	4547.6
62°	111.1	109.3	111.1	114.7	122.0	149.3	244.0	709.4	1842.2	3567.8	4714.3
63°	105.6	104.7	107.5	112.0	115.6	134.8	213.1	612.8	1703.8	3589.7	4855.4
64°	103.8	102.9	103.8	110.2	111.1	126.6	188.5	523.6	1503.4	3627.0	5036.6
65°	99.3	99.3	101.1	103.8	107.5	119.3	168.5	454.4	1304.0	3528.6	5092.2
66°	95.6	96.5	96.5	101.1	103.8	111.1	154.8	386.1	1112.8	3372.0	5145.9
67°	92.9	92.9	93.8	97.4	100.2	104.7	139.3	334.2	938.8	3185.3	5063.0
67.5°	91.1	92.0	92.0	95.6	98.3	104.7	133.0	316.9	839.6	2980.4	5001.1
68°	88.3	89.2	89.2	92.9	95.6	101.1	128.4	289.6	774.0	2847.5	4886.4
69°	86.5	85.6	85.6	89.2	92.9	96.5	119.3	253.2	615.6	2476.0	4718.8
70°	81.0	81.0	82.9	85.6	88.3	92.0	110.2	223.1	520.9	2049.8	4287.2
71°	78.3	77.4	78.3	81.0	83.8	88.3	101.1	197.6	426.2	1701.9	3862.8
72°	72.8	74.7	74.7	77.4	80.1	82.9	94.7	172.1	357.9	1360.5	3395.7
72.5°	71.9	71.9	72.8	75.6	77.4	82.0	91.1	164.8	326.9	1199.3	3199.9
73°	69.2	69.2	70.1	72.8	74.7	79.2	88.3	148.4	297.8	1067.2	2833.8
74°	66.5	65.6	65.6	69.2	70.1	74.7	82.9	131.1	249.5	804.1	2274.7
75°	61.9	61.9	62.8	64.7	65.6	69.2	76.5	116.6	210.4	623.8	1779.3



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	51.0	51.9	52.8	54.6	54.6	57.4	62.8	81.0	128.4	316.0	816.8
80°	37.3	39.2	41.9	44.6	43.7	43.7	49.2	58.3	76.5	142.1	313.3
82.5°	30.1	31.9	29.1	32.8	32.8	31.0	35.5	42.8	51.9	70.1	112.0
85°	20.0	20.9	17.3	20.0	19.1	19.1	23.7	25.5	31.9	39.2	55.5
87.5°	9.1	9.1	7.3	8.2	8.2	8.2	11.8	9.1	13.7	19.1	32.8
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°	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8	775.8
2.5°	777.7	781.3	781.3	777.7	774.9	777.7	775.8	771.3	775.8	777.7	778.6
5°	788.6	781.3	785.0	776.8	782.2	781.3	779.5	784.0	785.0	785.0	791.3
7.5°	800.4	809.5	797.7	798.6	801.3	790.4	794.1	795.9	792.2	799.5	805.0
10°	821.4	825.0	821.4	807.7	816.8	809.5	806.8	815.0	813.2	815.0	823.2
12.5°	840.5	846.9	836.9	835.9	831.4	825.0	828.7	827.8	840.5	842.3	852.3
15°	879.7	863.3	859.6	858.7	856.9	854.2	856.0	856.9	873.3	876.0	899.7
17.5°	913.3	910.6	890.6	897.9	897.9	886.9	882.4	897.9	910.6	924.3	940.7
20°	948.0	945.2	923.4	924.3	916.1	926.1	920.6	935.2	957.1	961.6	976.2
22.5°	988.9	977.1	961.6	963.4	966.2	958.9	955.2	975.3	997.1	1009.9	1010.8
25°	1053.6	1023.5	1010.8	1012.6	1009.0	1003.5	1006.2	1031.7	1042.7	1070.0	1064.5
27.5°	1088.2	1070.9	1061.8	1040.8	1041.7	1033.6	1044.5	1082.7	1104.6	1125.5	1083.6
30°	1130.1	1119.1	1079.1	1071.8	1070.9	1067.2	1087.3	1136.5	1169.2	1181.1	1121.0
32.5°	1212.0	1168.3	1158.3	1151.9	1137.4	1141.9	1151.9	1216.6	1268.5	1265.8	1155.6
35°	1305.8	1275.8	1247.5	1242.1	1240.3	1227.5	1244.8	1320.4	1360.5	1348.6	1168.3
37.5°	1456.1	1410.5	1372.3	1351.4	1347.7	1338.6	1379.6	1439.7	1491.6	1445.1	1178.3
40°	1529.8	1478.8	1443.3	1430.6	1433.3	1446.1	1486.1	1578.1	1600.9	1515.3	1186.5
42.5°	1635.5	1579.9	1509.8	1503.4	1495.2	1501.6	1579.0	1702.9	1722.0	1610.0	1155.6
45°	1823.1	1739.3	1658.2	1621.8	1623.6	1640.9	1761.1	1896.8	1861.3	1675.5	1106.4
47.5°	2059.8	1936.9	1871.3	1822.1	1845.8	1826.7	2017.9	2126.3	2005.2	1758.4	1046.3
50°	2415.9	2243.8	2154.5	2095.3	2105.3	2121.7	2315.7	2407.7	2164.5	1798.5	954.3
52.5°	2864.8	2643.5	2512.4	2433.2	2440.5	2476.0	2726.4	2698.2	2346.7	1832.2	831.4
55°	3402.1	3174.4	2920.3	2887.6	2879.4	2964.1	3240.0	3002.3	2510.6	1778.4	703.9
56°	3686.2	3444.0	3179.9	3112.5	3092.5	3151.6	3475.8	3154.4	2567.0	1718.3	642.9
57°	3927.5	3696.2	3406.6	3291.9	3317.4	3428.5	3709.9	3297.3	2618.9	1656.4	585.5
58°	4259.0	3994.9	3688.9	3601.5	3578.7	3667.1	3962.1	3441.2	2636.2	1592.7	532.7
59°	4589.5	4272.6	3996.7	3837.3	3843.7	4004.9	4210.7	3612.4	2662.6	1511.6	465.3
60°	4840.8	4681.5	4312.7	4193.4	4177.0	4410.1	4458.4	3727.2	2690.9	1402.4	418.0
61°	5196.9	4989.3	4646.0	4492.1	4536.7	4723.4	4726.1	3871.0	2649.0	1263.9	359.7
62°	5452.8	5398.1	5037.5	4890.9	4877.3	5125.0	5004.8	3997.6	2612.6	1132.8	317.8
63°	5752.4	5752.4	5423.6	5308.9	5315.3	5511.1	5125.9	4124.2	2570.7	988.0	279.6
64°	5908.1	6103.9	5800.6	5639.5	5681.3	5850.7	5341.7	4207.1	2441.4	841.4	245.9
65°	6042.9	6337.0	6168.5	6093.8	6030.1	6130.3	5528.4	4284.5	2243.8	715.7	218.5
66°	6156.7	6556.4	6500.9	6420.8	6414.4	6391.6	5564.8	4281.7	2039.8	604.6	191.2
67°	6099.3	6561.0	6662.1	6695.8	6685.8	6445.3	5501.0	4184.3	1778.4	510.9	170.3
67.5°	6047.4	6523.7	6758.6	6739.5	6781.4	6490.9	5512.0	4065.0	1592.7	462.6	160.3
68°	6001.9	6473.6	6797.8	6822.3	6801.4	6496.3	5451.9	3970.3	1466.1	434.4	151.2
69°	5656.8	6235.9	6734.9	6823.3	6769.5	6287.8	5260.6	3723.5	1164.7	370.6	139.3
70°	5310.7	5928.1	6429.9	6592.0	6525.5	5884.4	5019.3	3331.0	960.7	316.9	125.7
71°	4831.7	5356.2	6023.7	6121.2	6041.0	5425.5	4520.3	2916.7	747.6	268.6	112.0
72°	4181.6	4626.8	5264.3	5500.1	5381.7	4765.3	4015.8	2410.4	605.6	225.8	102.0
72.5°	3859.2	4315.4	4930.1	4949.2	4972.0	4478.4	3801.8	2117.2	528.2	209.4	99.3
73°	3553.2	4000.3	4532.1	4599.5	4503.0	3994.9	3482.2	1893.2	482.6	191.2	95.6
74°	2879.4	3134.3	3575.1	3640.6	3556.0	3257.3	2845.7	1451.5	384.3	164.8	87.4
75°	2265.6	2405.9	2804.7	2764.6	2638.1	2533.3	2206.4	1109.1	311.4	144.8	81.0



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1018.1	1102.8	1169.2	1169.2	1176.5	1122.8	1017.2	509.0	192.1	104.7	66.5
80°	387.9	434.4	448.9	449.8	456.2	472.6	439.8	250.4	113.8	74.7	53.7
82.5°	281.4	393.4	423.4	401.6	403.4	364.2	168.5	111.1	71.9	51.9	39.2
85°	255.0	342.4	362.4	359.7	360.6	336.9	99.3	54.6	41.9	32.8	27.3
87.5°	123.8	121.1	128.4	144.8	141.1	183.0	83.8	27.3	18.2	13.7	13.7
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):

	135°	145°	155°	165°	175°	180°
0°	775.8	775.8	775.8	775.8	775.8	775.8
2.5°	771.3	770.4	783.1	770.4	777.7	772.2
5°	780.4	784.0	786.8	792.2	779.5	792.2
7.5°	807.7	811.4	812.3	816.8	811.4	810.4
10°	828.7	837.8	843.2	825.0	835.9	835.0
12.5°	869.6	860.5	859.6	856.0	846.0	842.3
15°	898.8	885.1	876.9	862.4	850.5	846.0
17.5°	939.8	913.3	879.7	849.6	828.7	812.3
20°	965.3	917.9	850.5	815.0	783.1	790.4
22.5°	981.6	913.3	824.1	778.6	746.7	755.8
25°	987.1	890.6	805.9	749.4	718.5	712.1
27.5°	971.6	864.2	770.4	706.6	679.3	684.8
30°	964.3	825.9	737.6	674.8	638.3	643.8
32.5°	945.2	786.8	693.9	630.1	603.7	594.6
35°	917.9	754.0	652.0	591.9	560.0	552.7
37.5°	884.2	713.0	615.6	542.7	514.5	509.0
40°	834.1	663.8	562.8	499.9	467.1	466.2
42.5°	790.4	616.5	513.6	448.9	416.2	418.0
45°	734.9	552.7	457.1	401.6	368.8	370.6
47.5°	663.8	493.6	403.4	341.5	314.2	312.3
50°	580.1	426.2	337.8	285.0	262.3	257.7
52.5°	499.9	357.9	276.8	229.5	210.4	208.5
55°	398.9	278.6	215.8	180.3	165.7	166.6
56°	362.4	256.8	196.7	164.8	153.9	153.9
57°	327.8	227.7	178.5	152.1	142.1	142.1
58°	289.6	200.3	162.1	137.5	133.0	129.3
59°	263.2	182.1	146.6	130.2	122.9	122.0
60°	232.2	163.9	136.6	122.0	116.6	115.6
61°	205.8	147.5	125.7	113.8	112.0	112.0
62°	183.9	136.6	116.6	110.2	109.3	106.5
63°	164.8	125.7	112.0	104.7	102.0	104.7
64°	147.5	115.6	108.4	102.9	99.3	101.1
65°	133.9	111.1	103.8	100.2	96.5	97.4
66°	124.8	103.8	100.2	95.6	93.8	94.7
67°	112.9	100.2	96.5	92.0	91.1	92.0
67.5°	109.3	97.4	94.7	90.2	89.2	90.2
68°	106.5	95.6	93.8	89.2	88.3	87.4
69°	99.3	92.0	89.2	87.4	85.6	84.7
70°	92.9	88.3	86.5	83.8	82.0	81.0
71°	89.2	83.8	82.9	80.1	78.3	77.4
72°	84.7	81.0	79.2	75.6	74.7	75.6
72.5°	83.8	79.2	78.3	74.7	73.8	73.8
73°	81.0	75.6	76.5	72.8	71.0	72.8
74°	75.6	73.8	71.9	69.2	68.3	68.3
75°	71.0	69.2	67.4	65.6	65.6	65.6



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	60.1	59.2	60.1	56.5	55.5	54.6
80°	48.3	48.3	49.2	46.4	44.6	43.7
82.5°	36.4	37.3	39.2	36.4	34.6	32.8
85°	23.7	24.6	24.6	21.9	25.5	23.7
87.5°	11.8	12.7	11.8	10.9	12.7	12.7
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)