

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: P676170

Luminaire Tested: **CCW-SA-2B-827-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676170
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2B-827-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @450mA w/
T1 distribution lens
Light Source: (32) 2700K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

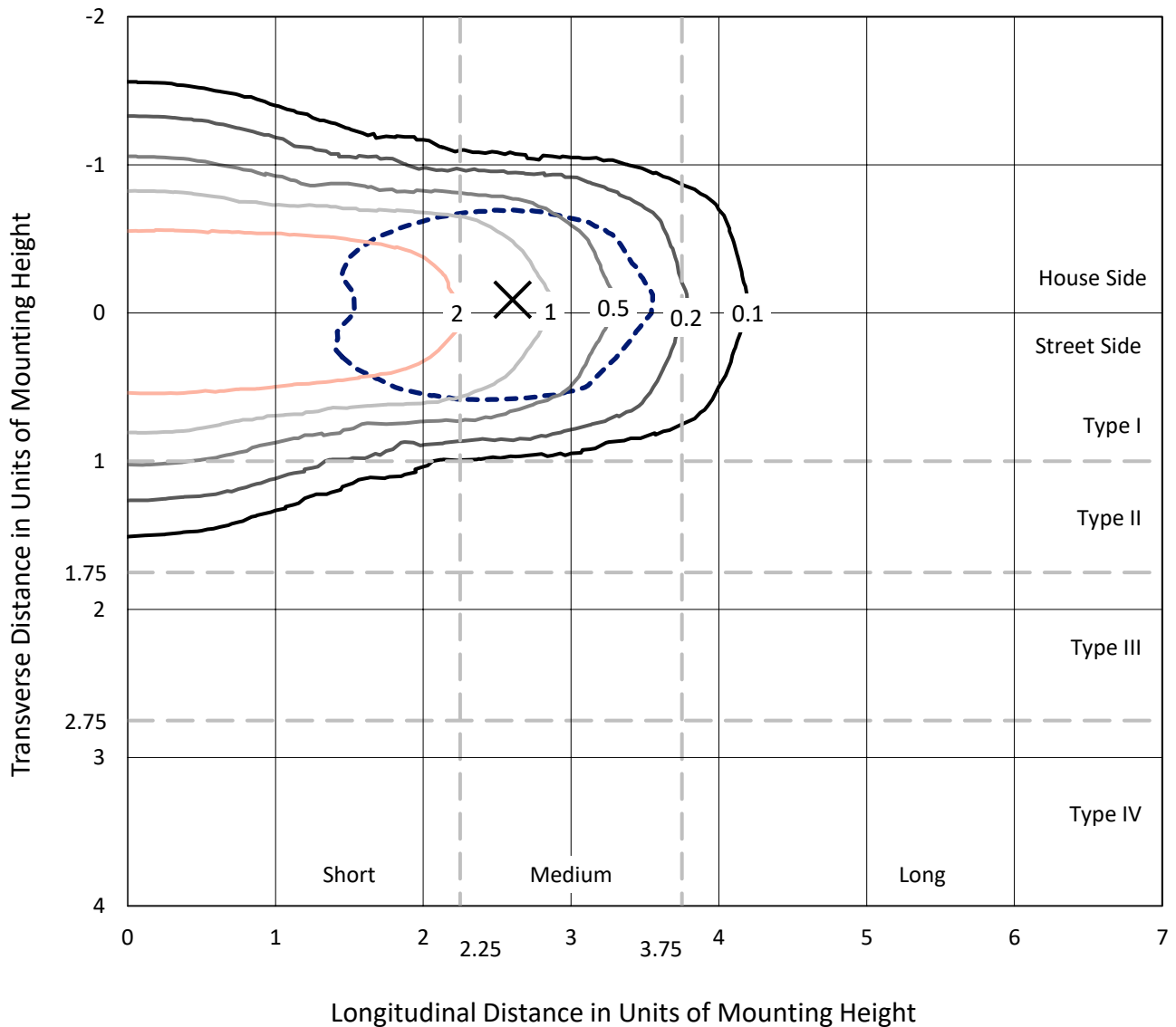
Lumens per Lamp: N/A
Luminaire Lumens: 4943.6 lumens
Efficiency: N/A
Efficacy: 107.5 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

Input Watts (W): 46
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

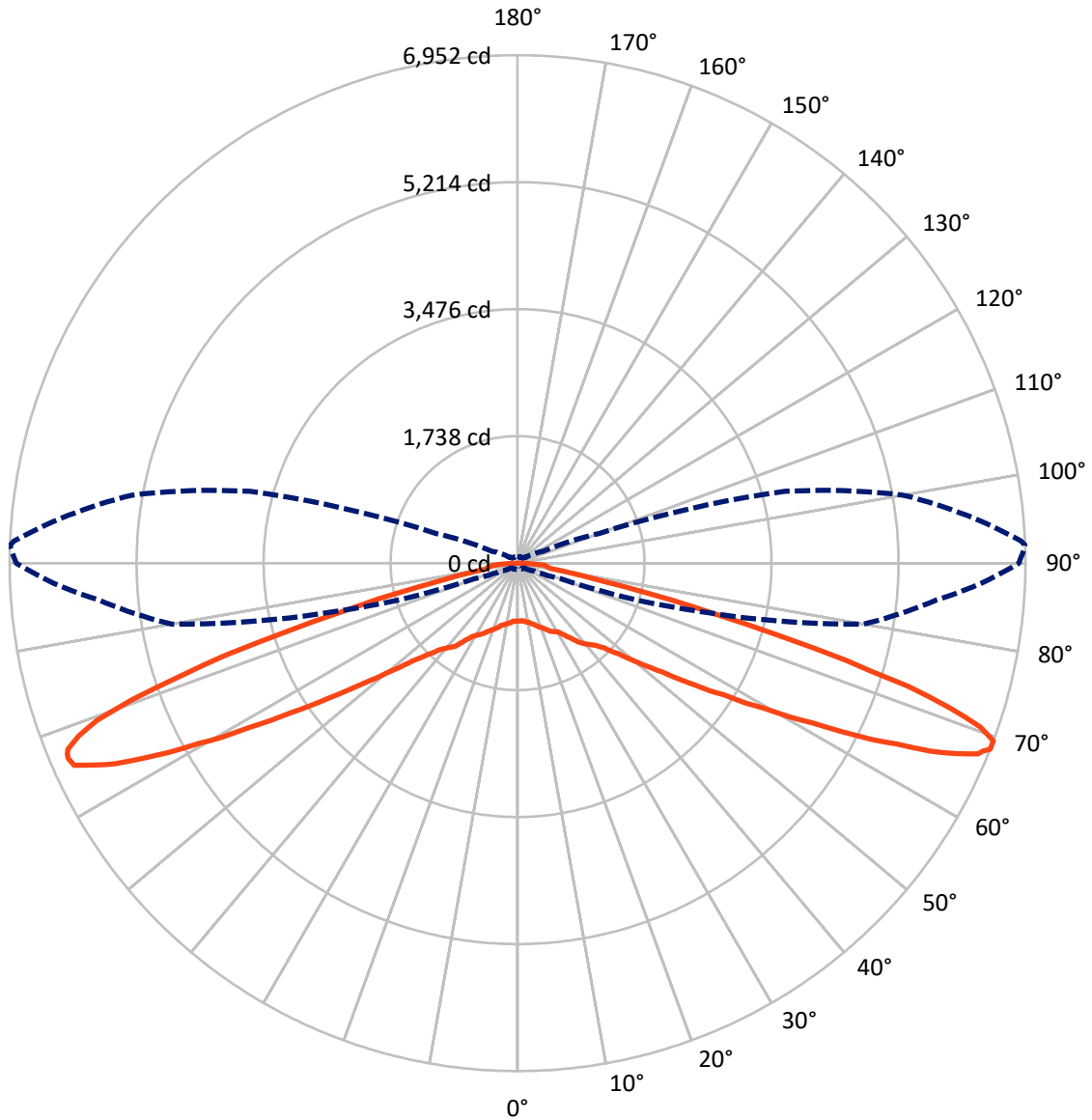
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.8 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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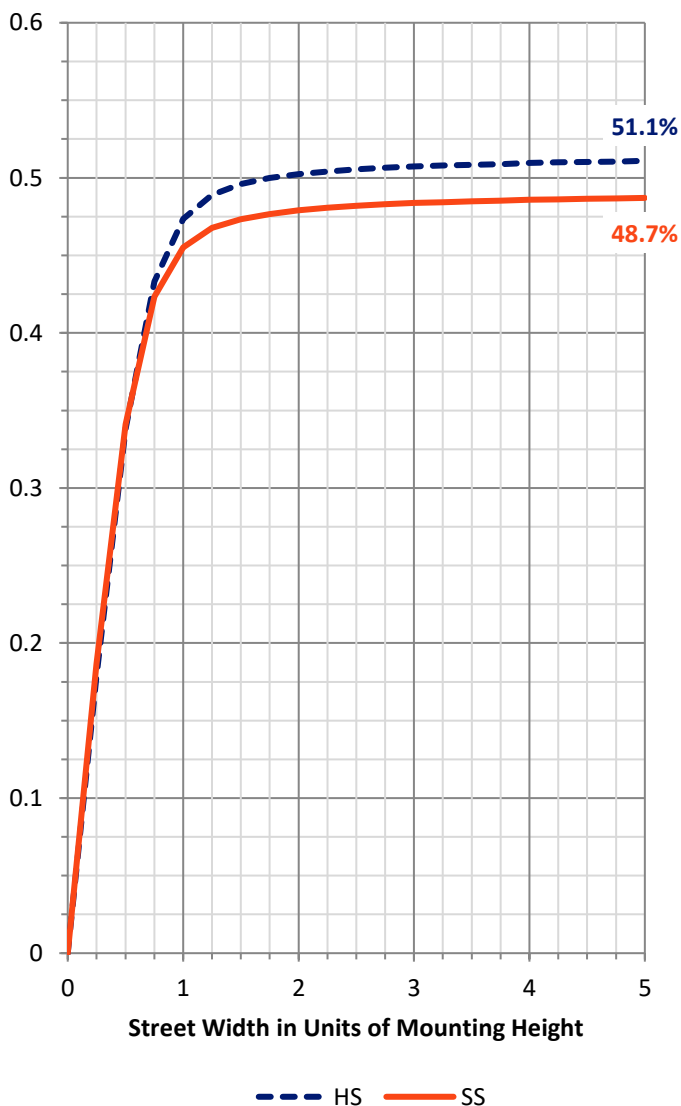
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2545.9	0.0	2545.9
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2397.7	0.0	2397.7
	% Fixture	48.5	0.0	48.5
Total	Lumens	4943.6	0.0	4943.6
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	79.2	1.6
10°-20°	256.5	5.2
20°-30°	437.7	8.9
30°-40°	611.1	12.4
40°-50°	777.3	15.7
50°-60°	982.9	19.9
60°-70°	1212.1	24.5
70°-80°	529.5	10.7
80°-90°	57.4	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°	4943.6	100.0
0°-180°	4943.6	100.0



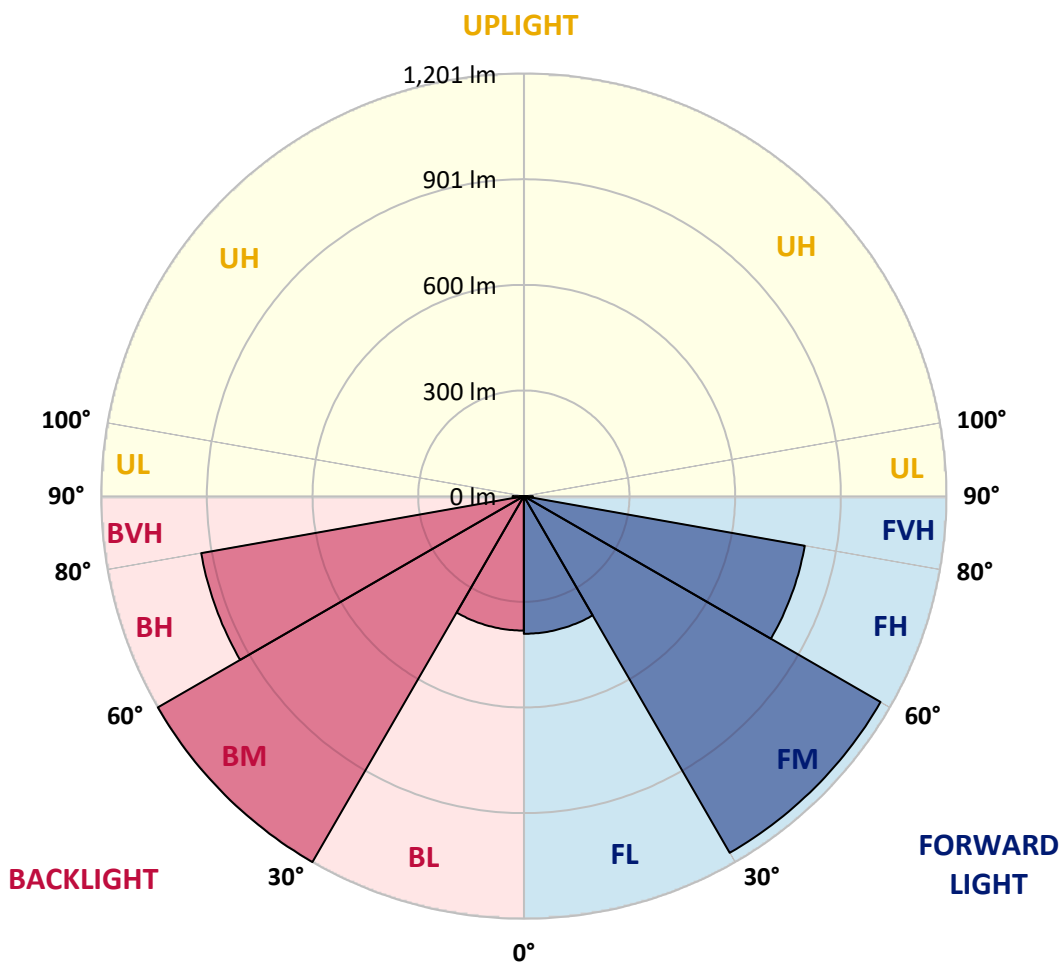
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	391.2	7.9			
FM (30°-60°)	1170.4	23.7			
FH (60°-80°)	810.7	16.4			G1/1800
FVH (80°-90°)	25.5	0.5			G1/100
BL (0°-30°)	382.1	7.7	B1/500		
BM (30°-60°)	1200.9	24.3	B2/2500		
BH (60°-80°)	931.0	18.8	B2/1000		G2/1000
BVH (80°-90°)	32.0	0.6			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: 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°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	807.2	806.3	809.1	810.9	802.6	805.4	803.5	801.7	795.2	792.4	786.8
5°	829.5	832.3	841.6	833.2	836.9	832.3	817.4	822.1	813.7	811.9	806.3
7.5°	868.5	862.9	875.9	866.6	869.4	860.1	853.6	845.3	843.4	830.4	831.4
10°	876.8	888.0	893.5	891.7	893.5	898.2	886.1	873.1	855.5	851.8	838.8
12.5°	871.2	881.5	896.3	908.4	916.7	918.6	913.9	911.1	903.7	882.4	881.5
15°	865.7	858.3	867.5	909.3	937.1	955.7	962.2	946.4	948.3	920.4	909.3
17.5°	828.6	817.4	853.6	894.4	928.8	969.6	1001.1	996.5	996.5	974.2	958.5
20°	779.4	797.9	816.5	868.5	931.6	992.8	1053.1	1050.3	1039.2	1032.7	998.4
22.5°	737.6	746.0	780.3	835.1	913.9	999.3	1070.7	1121.8	1095.8	1069.8	1049.4
25°	708.9	701.5	745.1	801.7	897.2	988.2	1104.1	1157.0	1170.9	1151.5	1112.5
27.5°	668.1	668.1	702.4	756.2	843.4	982.6	1136.6	1217.3	1237.8	1209.0	1152.4
30°	621.7	627.2	656.9	718.2	803.5	941.8	1149.6	1286.9	1303.6	1278.6	1220.1
32.5°	585.5	585.5	618.9	683.8	775.7	923.2	1141.3	1355.6	1387.1	1368.6	1308.3
35°	546.5	543.7	567.8	639.3	731.1	887.0	1138.5	1410.3	1480.8	1481.8	1418.7
37.5°	490.8	502.0	532.6	589.2	695.9	851.8	1130.1	1476.2	1602.4	1623.7	1580.1
40°	453.7	458.4	486.2	548.4	641.1	810.0	1118.1	1530.0	1683.1	1756.4	1696.1
42.5°	399.9	406.4	427.7	504.7	588.3	750.6	1065.2	1568.1	1798.2	1881.7	1830.6
45°	343.3	347.0	378.6	441.7	531.7	680.1	1008.6	1629.3	1909.5	2080.2	2050.5
47.5°	275.6	277.4	304.3	370.2	463.9	609.6	921.4	1626.5	1999.5	2278.8	2362.3
50°	215.3	219.9	240.3	294.1	382.3	523.3	820.2	1604.3	2112.7	2505.2	2669.4
52.5°	171.7	172.6	185.6	228.3	295.1	437.0	711.7	1533.7	2219.4	2726.9	3046.1
55°	142.0	142.0	149.4	175.4	226.4	332.2	584.5	1416.8	2232.4	2971.9	3457.2
56°	136.4	134.5	141.0	163.3	204.1	299.7	525.2	1338.0	2251.0	3085.1	3663.1
57°	129.0	129.9	133.6	149.4	183.7	265.4	459.3	1260.9	2238.0	3177.9	3815.3
58°	125.3	123.4	130.8	141.0	162.4	235.7	413.8	1170.0	2217.6	3254.0	4037.1
59°	119.7	118.8	123.4	132.7	151.2	209.7	358.1	1071.7	2177.7	3352.3	4202.2
60°	117.8	116.9	118.8	126.2	139.2	183.7	315.5	956.6	2071.0	3453.5	4407.3
61°	112.3	113.2	116.9	121.5	131.8	165.2	283.9	838.8	2001.4	3538.8	4633.7
62°	113.2	111.3	113.2	116.9	124.3	152.2	248.7	722.8	1877.0	3635.3	4803.5
63°	107.6	106.7	109.5	114.1	117.8	137.3	217.1	624.4	1736.0	3657.6	4947.3
64°	105.8	104.8	105.8	112.3	113.2	129.0	192.1	533.5	1531.9	3695.6	5131.9
65°	101.1	101.1	103.0	105.8	109.5	121.5	171.7	463.0	1328.7	3595.4	5188.5
66°	97.4	98.4	98.4	103.0	105.8	113.2	157.7	393.4	1133.8	3435.8	5243.3
67°	94.6	94.6	95.6	99.3	102.1	106.7	142.0	340.5	956.6	3245.6	5158.8
67.5°	92.8	93.7	93.7	97.4	100.2	106.7	135.5	322.9	855.5	3036.8	5095.7
68°	90.0	90.9	90.9	94.6	97.4	103.0	130.8	295.1	788.7	2901.4	4978.8
69°	88.1	87.2	87.2	90.9	94.6	98.4	121.5	257.9	627.2	2522.8	4808.1
70°	82.6	82.6	84.4	87.2	90.0	93.7	112.3	227.3	530.7	2088.6	4368.3
71°	79.8	78.9	79.8	82.6	85.4	90.0	103.0	201.3	434.2	1734.1	3935.9
72°	74.2	76.1	76.1	78.9	81.7	84.4	96.5	175.4	364.6	1386.2	3459.9
72.5°	73.3	73.3	74.2	77.0	78.9	83.5	92.8	167.9	333.1	1222.0	3260.5
73°	70.5	70.5	71.4	74.2	76.1	80.7	90.0	151.2	303.4	1087.4	2887.5
74°	67.7	66.8	66.8	70.5	71.4	76.1	84.4	133.6	254.2	819.3	2317.8
75°	63.1	63.1	64.0	65.9	66.8	70.5	77.9	118.8	214.3	635.6	1813.0



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	52.0	52.9	53.8	55.7	55.7	58.5	64.0	82.6	130.8	322.0	832.3
80°	38.0	39.9	42.7	45.5	44.5	44.5	50.1	59.4	77.9	144.7	319.2
82.5°	30.6	32.5	29.7	33.4	33.4	31.5	36.2	43.6	52.9	71.4	114.1
85°	20.4	21.3	17.6	20.4	19.5	19.5	24.1	26.0	32.5	39.9	56.6
87.5°	9.3	9.3	7.4	8.4	8.4	8.4	12.1	9.3	13.9	19.5	33.4
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):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
0°	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	792.4	796.1	796.1	792.4	789.6	792.4	790.5	785.9	790.5	792.4	793.3
5°	803.5	796.1	799.8	791.5	797.0	796.1	794.2	798.9	799.8	799.8	806.3
7.5°	815.6	824.9	812.8	813.7	816.5	805.4	809.1	810.9	807.2	814.7	820.2
10°	836.9	840.6	836.9	823.0	832.3	824.9	822.1	830.4	828.6	830.4	838.8
12.5°	856.4	862.9	852.7	851.8	847.1	840.6	844.3	843.4	856.4	858.3	868.5
15°	896.3	879.6	875.9	875.0	873.1	870.3	872.2	873.1	889.8	892.6	916.7
17.5°	930.6	927.8	907.4	914.9	914.9	903.7	899.1	914.9	927.8	941.8	958.5
20°	965.9	963.1	940.8	941.8	933.4	943.6	938.1	952.9	975.2	979.8	994.7
22.5°	1007.6	995.6	979.8	981.7	984.4	977.0	973.3	993.7	1016.0	1029.0	1029.9
25°	1073.5	1042.9	1029.9	1031.8	1028.1	1022.5	1025.3	1051.3	1062.4	1090.2	1084.7
27.5°	1108.8	1091.2	1081.9	1060.5	1061.5	1053.1	1064.2	1103.2	1125.5	1146.8	1104.1
30°	1151.5	1140.3	1099.5	1092.1	1091.2	1087.4	1107.9	1158.0	1191.4	1203.4	1142.2
32.5°	1235.0	1190.4	1180.2	1173.7	1158.9	1163.5	1173.7	1239.6	1292.5	1289.7	1177.4
35°	1330.5	1299.9	1271.2	1265.6	1263.7	1250.7	1268.4	1345.4	1386.2	1374.1	1190.4
37.5°	1483.6	1437.2	1398.3	1376.9	1373.2	1363.9	1405.7	1466.9	1519.8	1472.5	1200.6
40°	1558.8	1506.8	1470.6	1457.7	1460.4	1473.4	1514.2	1608.0	1631.2	1543.9	1209.0
42.5°	1666.4	1609.8	1538.4	1531.9	1523.5	1530.0	1608.9	1735.1	1754.6	1640.4	1177.4
45°	1857.6	1772.2	1689.6	1652.5	1654.4	1672.0	1794.5	1932.7	1896.5	1707.2	1127.3
47.5°	2098.8	1973.5	1906.7	1856.6	1880.7	1861.3	2056.1	2166.5	2043.1	1791.7	1066.1
50°	2461.6	2286.2	2195.3	2135.0	2145.2	2161.9	2359.5	2453.2	2205.5	1832.5	972.4
52.5°	2919.0	2693.5	2559.9	2479.2	2486.6	2522.8	2778.0	2749.2	2391.1	1866.8	847.1
55°	3466.4	3234.5	2975.6	2942.2	2933.9	3020.1	3301.3	3059.1	2558.1	1812.1	717.2
56°	3755.9	3509.1	3240.0	3171.4	3151.0	3211.3	3541.6	3214.1	2615.6	1750.9	655.1
57°	4001.8	3766.1	3471.1	3354.2	3380.2	3493.4	3780.1	3359.7	2668.5	1687.8	596.6
58°	4339.5	4070.5	3758.7	3669.6	3646.4	3736.4	4037.1	3506.3	2686.1	1622.8	542.8
59°	4676.4	4353.5	4072.3	3910.0	3916.4	4080.7	4290.4	3680.8	2713.0	1540.2	474.1
60°	4932.4	4770.1	4394.3	4272.7	4256.0	4493.6	4542.7	3797.7	2741.8	1428.9	425.9
61°	5295.2	5083.7	4733.9	4577.1	4622.5	4812.8	4815.5	3944.3	2699.1	1287.9	366.5
62°	5556.0	5500.3	5132.9	4983.5	4969.6	5221.9	5099.5	4073.3	2662.0	1154.2	323.8
63°	5861.2	5861.2	5526.3	5409.4	5415.9	5615.3	5222.9	4202.2	2619.3	1006.7	284.8
64°	6019.9	6219.4	5910.4	5746.2	5788.8	5961.4	5442.8	4286.7	2487.6	857.3	250.5
65°	6157.2	6456.9	6285.2	6209.2	6144.2	6246.3	5633.0	4365.5	2286.2	729.3	222.7
66°	6273.2	6680.5	6623.9	6542.3	6535.8	6512.6	5670.1	4362.7	2078.4	616.1	194.8
67°	6214.7	6685.2	6788.1	6822.5	6812.3	6567.3	5605.1	4263.5	1812.1	520.5	173.5
67.5°	6161.8	6647.1	6886.5	6867.0	6909.7	6613.7	5616.3	4141.9	1622.8	471.3	163.3
68°	6115.5	6596.1	6926.4	6951.4	6930.1	6619.3	5555.0	4045.4	1493.8	442.6	154.0
69°	5763.8	6353.9	6862.4	6952.4	6897.6	6406.8	5360.2	3794.0	1186.7	377.6	142.0
70°	5411.2	6040.3	6551.5	6716.7	6649.0	5995.8	5114.3	3394.1	978.9	322.9	128.0
71°	4923.2	5457.6	6137.7	6237.0	6155.3	5528.1	4605.8	2971.9	761.8	273.7	114.1
72°	4260.7	4714.4	5363.9	5604.2	5483.6	4855.4	4091.8	2456.0	617.0	230.1	103.9
72.5°	3932.2	4397.1	5023.4	5042.9	5066.1	4563.2	3873.8	2157.2	538.2	213.4	101.1
73°	3620.5	4076.0	4617.9	4686.6	4588.2	4070.5	3548.1	1929.0	491.8	194.8	97.4
74°	2933.9	3193.7	3642.7	3709.5	3623.2	3318.9	2899.5	1479.0	391.6	167.9	89.1
75°	2308.5	2451.4	2857.8	2816.9	2688.0	2581.3	2248.2	1130.1	317.3	147.5	82.6



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	1037.3	1123.6	1191.4	1191.4	1198.8	1144.0	1036.4	518.7	195.8	106.7	67.7
80°	395.3	442.6	457.4	458.4	464.9	481.6	448.2	255.2	116.0	76.1	54.7
82.5°	286.7	400.8	431.4	409.2	411.0	371.1	171.7	113.2	73.3	52.9	39.9
85°	259.8	348.9	369.3	366.5	367.4	343.3	101.1	55.7	42.7	33.4	27.8
87.5°	126.2	123.4	130.8	147.5	143.8	186.5	85.4	27.8	18.6	13.9	13.9
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):

	135°	145°	155°	165°	175°	180°
0°	790.5	790.5	790.5	790.5	790.5	790.5
2.5°	785.9	785.0	797.9	785.0	792.4	786.8
5°	795.2	798.9	801.7	807.2	794.2	807.2
7.5°	823.0	826.7	827.6	832.3	826.7	825.8
10°	844.3	853.6	859.2	840.6	851.8	850.8
12.5°	886.1	876.8	875.9	872.2	862.0	858.3
15°	915.8	901.9	893.5	878.7	866.6	862.0
17.5°	957.5	930.6	896.3	865.7	844.3	827.6
20°	983.5	935.3	866.6	830.4	797.9	805.4
22.5°	1000.2	930.6	839.7	793.3	760.8	770.1
25°	1005.8	907.4	821.1	763.6	732.1	725.6
27.5°	990.0	880.5	785.0	720.0	692.2	697.7
30°	982.6	841.6	751.6	687.5	650.4	656.0
32.5°	963.1	801.7	707.0	642.1	615.2	605.9
35°	935.3	768.3	664.3	603.1	570.6	563.2
37.5°	900.9	726.5	627.2	553.0	524.2	518.7
40°	849.9	676.4	573.4	509.4	476.0	475.1
42.5°	805.4	628.2	523.3	457.4	424.0	425.9
45°	748.8	563.2	465.8	409.2	375.8	377.6
47.5°	676.4	502.9	411.0	347.9	320.1	318.3
50°	591.0	434.2	344.2	290.4	267.2	262.6
52.5°	509.4	364.6	282.1	233.8	214.3	212.5
55°	406.4	283.9	219.9	183.7	168.9	169.8
56°	369.3	261.7	200.4	167.9	156.8	156.8
57°	334.0	232.0	181.9	155.0	144.7	144.7
58°	295.1	204.1	165.2	140.1	135.5	131.8
59°	268.1	185.6	149.4	132.7	125.3	124.3
60°	236.6	167.0	139.2	124.3	118.8	117.8
61°	209.7	150.3	128.0	116.0	114.1	114.1
62°	187.4	139.2	118.8	112.3	111.3	108.6
63°	167.9	128.0	114.1	106.7	103.9	106.7
64°	150.3	117.8	110.4	104.8	101.1	103.0
65°	136.4	113.2	105.8	102.1	98.4	99.3
66°	127.1	105.8	102.1	97.4	95.6	96.5
67°	115.1	102.1	98.4	93.7	92.8	93.7
67.5°	111.3	99.3	96.5	91.9	90.9	91.9
68°	108.6	97.4	95.6	90.9	90.0	89.1
69°	101.1	93.7	90.9	89.1	87.2	86.3
70°	94.6	90.0	88.1	85.4	83.5	82.6
71°	90.9	85.4	84.4	81.7	79.8	78.9
72°	86.3	82.6	80.7	77.0	76.1	77.0
72.5°	85.4	80.7	79.8	76.1	75.2	75.2
73°	82.6	77.0	77.9	74.2	72.4	74.2
74°	77.0	75.2	73.3	70.5	69.6	69.6
75°	72.4	70.5	68.7	66.8	66.8	66.8



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	61.2	60.3	61.2	57.5	56.6	55.7
80°	49.2	49.2	50.1	47.3	45.5	44.5
82.5°	37.1	38.0	39.9	37.1	35.3	33.4
85°	24.1	25.1	25.1	22.3	26.0	24.1
87.5°	12.1	13.0	12.1	11.1	13.0	13.0
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)