

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: P676213

Luminaire Tested: **CCW-SA-2A-850-U-T1**

Issue Date: 04/25/2023



Test Information

Test Method: LM-79-08
Report Number: P676213
Test Lab: INNOVATION CENTER(G1)
Issue Date: 04/25/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: INVUE
Catalog Number: CCW-SA-2A-850-U-T1
Description: INVUE CLEAR CURVE Wall Pack MOUNT LIGHT SQUARE LUMINAIRE @350mA w/
T1 distribution lens
Light Source: (32) 5000K CCT, 80 CRI LEDS
Ballast/Driver: ELECTRONIC DRIVER

Summary

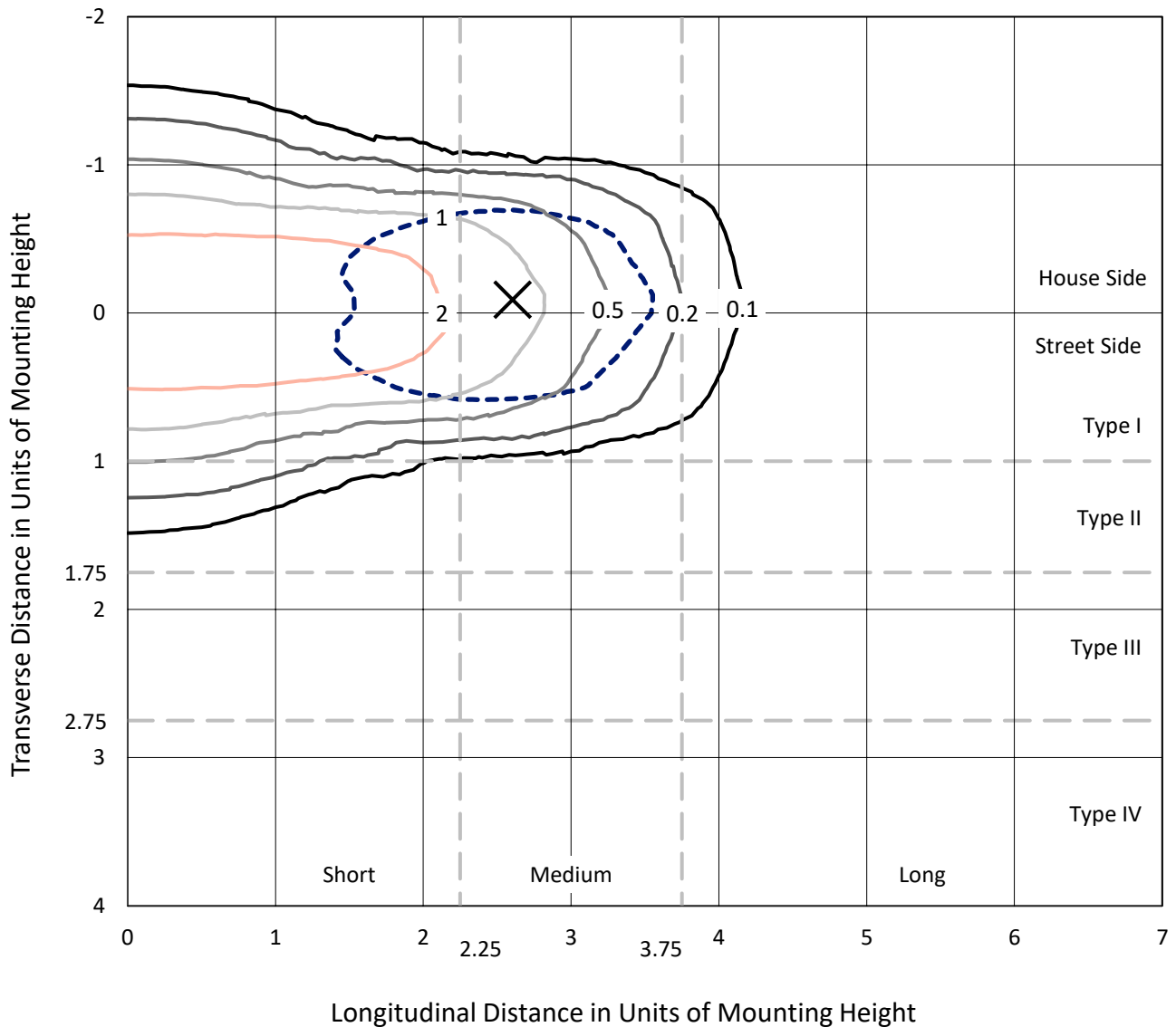
Lumens per Lamp: N/A
Luminaire Lumens: 4649.3 lumens
Efficiency: N/A
Efficacy: 128.4 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 1' x H: 0')
IES Classification: Type I - Short
BUG Rating: B2 - U0 - G2

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

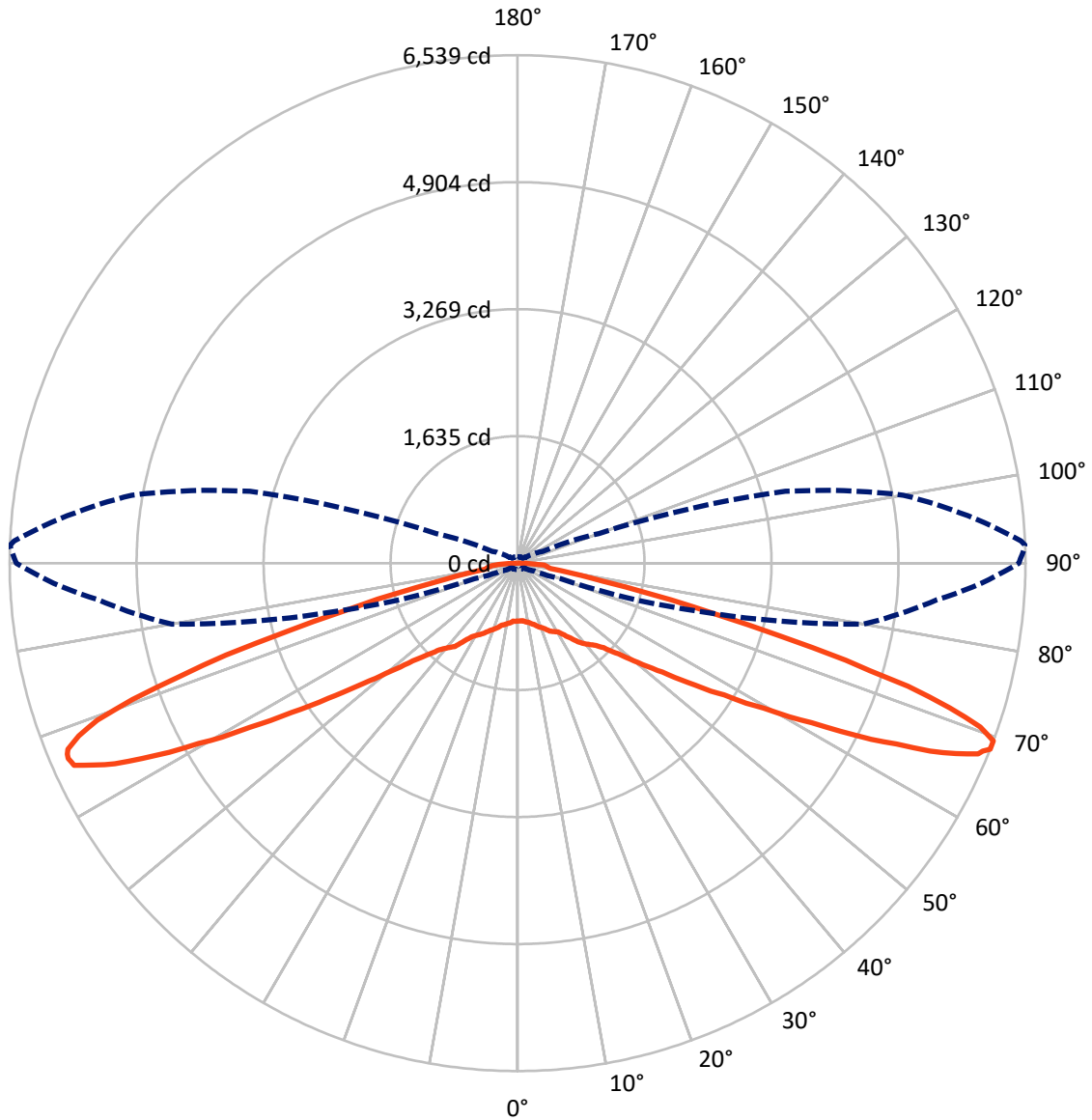
× Max cd
 - - - 1/2 Max cd



Based on 15 foot mounting height. Maximum calculated value = 3.6 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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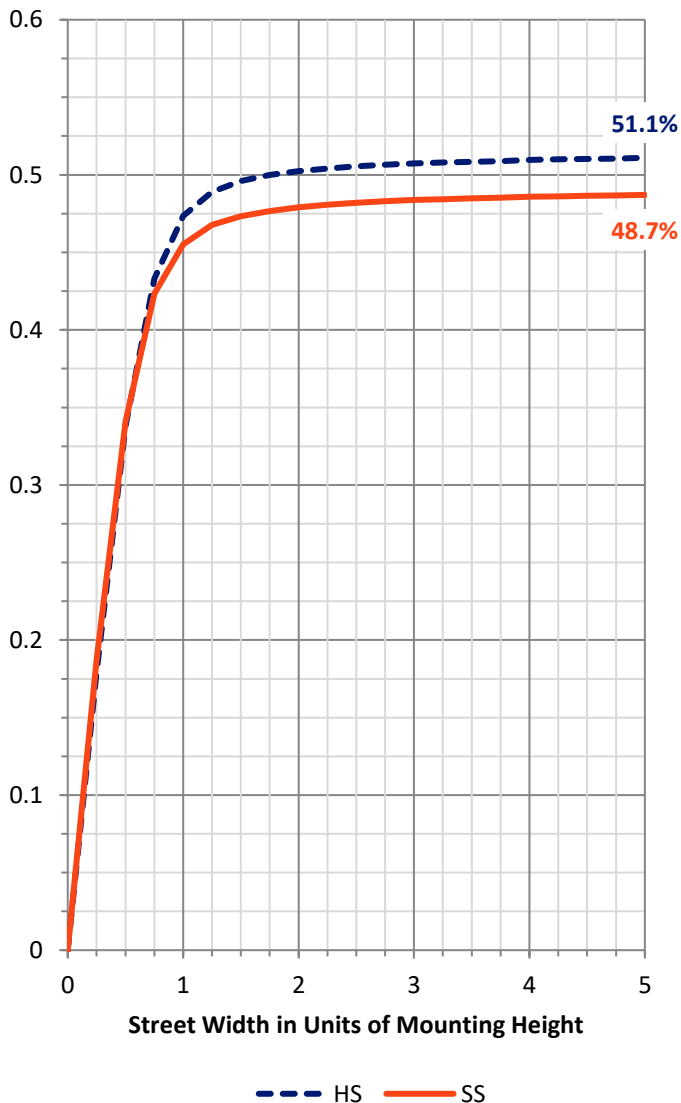
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	2394.3	0.0	2394.3
	% Fixture	51.5	0.0	51.5
Street Side	Lumens	2255.0	0.0	2255.0
	% Fixture	48.5	0.0	48.5
Total	Lumens	4649.3	0.0	4649.3
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	74.5	1.6
10°-20°	241.2	5.2
20°-30°	411.6	8.9
30°-40°	574.7	12.4
40°-50°	731.1	15.7
50°-60°	924.3	19.9
60°-70°	1140.0	24.5
70°-80°	498.0	10.7
80°-90°	54.0	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°	4649.3	100.0
0°-180°	4649.3	100.0

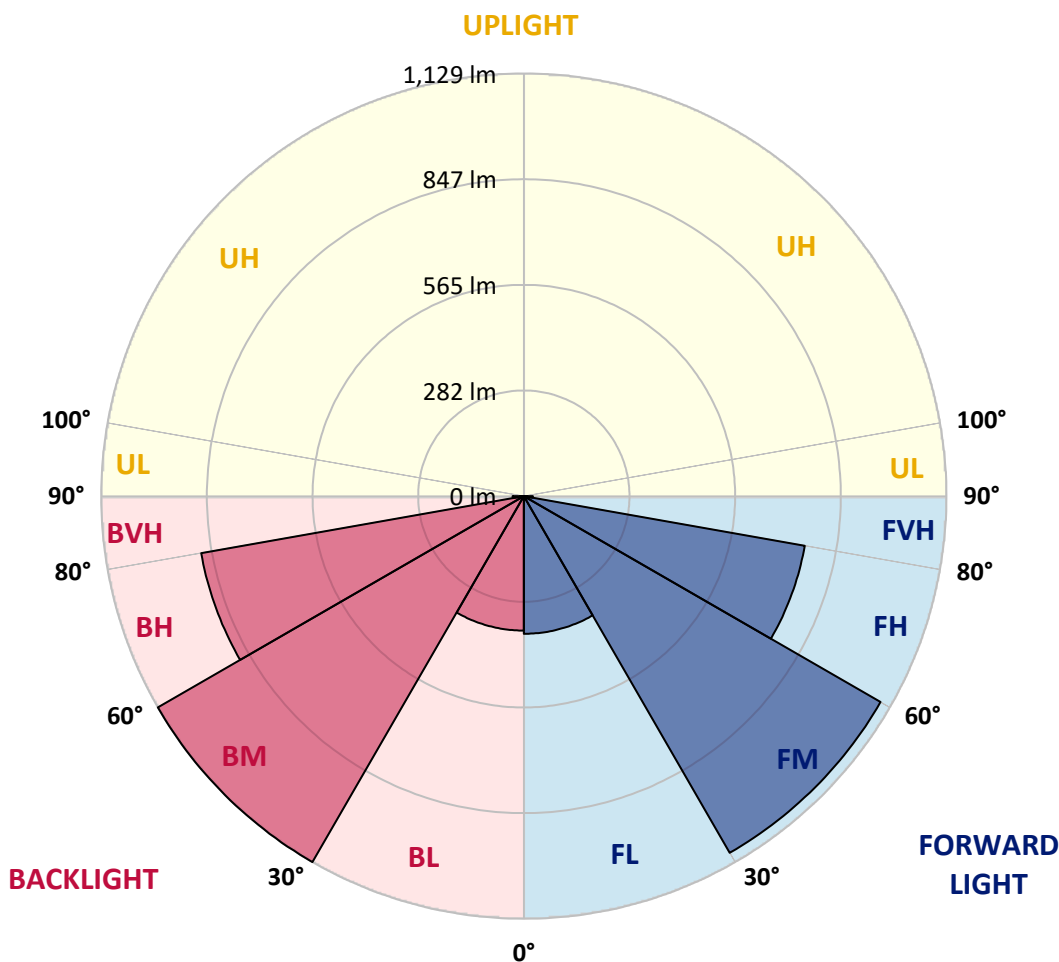


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	368.0	7.9			
FM (30°-60°)	1100.7	23.7			
FH (60°-80°)	762.4	16.4			G1/1800
FVH (80°-90°)	23.9	0.5			G1/100
BL (0°-30°)	359.3	7.7	B1/500		
BM (30°-60°)	1129.4	24.3	B2/2500		
BH (60°-80°)	875.5	18.8	B2/1000		G2/1000
BVH (80°-90°)	30.1	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°	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5
2.5°	759.2	758.3	760.9	762.7	754.8	757.4	755.7	753.9	747.8	745.2	740.0
5°	780.1	782.7	791.5	783.6	787.1	782.7	768.8	773.1	765.3	763.5	758.3
7.5°	816.8	811.5	823.7	815.0	817.6	808.9	802.8	795.0	793.2	781.0	781.9
10°	824.6	835.1	840.3	838.6	840.3	844.7	833.3	821.1	804.6	801.1	788.8
12.5°	819.4	829.0	842.9	854.3	862.1	863.9	859.5	856.9	849.9	829.9	829.0
15°	814.2	807.2	815.9	855.2	881.3	898.8	904.9	890.1	891.8	865.6	855.2
17.5°	779.2	768.8	802.8	841.2	873.5	911.9	941.6	937.2	937.2	916.2	901.4
20°	733.0	750.5	767.9	816.8	876.1	933.7	990.4	987.8	977.3	971.2	938.9
22.5°	693.7	701.6	733.9	785.4	859.5	939.8	1007.0	1055.0	1030.6	1006.1	986.9
25°	666.7	659.7	700.7	753.9	843.8	929.3	1038.4	1088.2	1101.2	1082.9	1046.3
27.5°	628.3	628.3	660.6	711.2	793.2	924.1	1069.0	1144.9	1164.1	1137.0	1083.8
30°	584.7	589.9	617.8	675.4	755.7	885.7	1081.2	1210.3	1226.0	1202.5	1147.5
32.5°	550.6	550.6	582.0	643.1	729.5	868.3	1073.3	1274.9	1304.6	1287.1	1230.4
35°	514.0	511.4	534.0	601.2	687.6	834.2	1070.7	1326.4	1392.7	1393.6	1334.2
37.5°	461.6	472.1	500.9	554.1	654.5	801.1	1062.8	1388.3	1507.0	1527.1	1486.1
40°	426.7	431.1	457.3	515.7	603.0	761.8	1051.5	1438.9	1582.9	1651.9	1595.1
42.5°	376.1	382.2	402.3	474.7	553.2	705.9	1001.8	1474.7	1691.1	1769.7	1721.7
45°	322.9	326.4	356.0	415.4	500.0	639.6	948.5	1532.3	1795.8	1956.4	1928.5
47.5°	259.2	260.9	286.2	348.2	436.3	573.3	866.5	1529.7	1880.5	2143.1	2221.7
50°	202.4	206.8	226.0	276.6	359.5	492.2	771.4	1508.8	1986.9	2356.1	2510.5
52.5°	161.4	162.3	174.5	214.7	277.5	411.0	669.3	1442.4	2087.3	2564.6	2864.8
55°	133.5	133.5	140.5	164.9	212.9	312.4	549.7	1332.5	2099.5	2795.0	3251.4
56°	128.3	126.5	132.6	153.6	192.0	281.9	493.9	1258.3	2117.0	2901.4	3445.1
57°	121.3	122.2	125.7	140.5	172.8	249.6	431.9	1185.9	2104.8	2988.7	3588.2
58°	117.8	116.1	123.0	132.6	152.7	221.6	389.2	1100.4	2085.6	3060.3	3796.8
59°	112.6	111.7	116.1	124.8	142.2	197.2	336.8	1007.9	2048.0	3152.8	3952.1
60°	110.8	109.9	111.7	118.7	130.9	172.8	296.7	899.7	1947.7	3247.9	4144.9
61°	105.6	106.5	109.9	114.3	123.9	155.3	267.0	788.8	1882.2	3328.2	4357.8
62°	106.5	104.7	106.5	109.9	116.9	143.1	233.9	679.8	1765.3	3418.9	4517.5
63°	101.2	100.4	103.0	107.3	110.8	129.1	204.2	587.3	1632.7	3439.9	4652.8
64°	99.5	98.6	99.5	105.6	106.5	121.3	180.6	501.8	1440.7	3475.6	4826.4
65°	95.1	95.1	96.9	99.5	103.0	114.3	161.4	435.4	1249.6	3381.4	4879.7
66°	91.6	92.5	92.5	96.9	99.5	106.5	148.3	370.0	1066.3	3231.3	4931.2
67°	89.0	89.0	89.9	93.4	96.0	100.4	133.5	320.3	899.7	3052.4	4851.7
67.5°	87.3	88.1	88.1	91.6	94.2	100.4	127.4	303.7	804.6	2856.1	4792.4
68°	84.6	85.5	85.5	89.0	91.6	96.9	123.0	277.5	741.7	2728.7	4682.5
69°	82.9	82.0	82.0	85.5	89.0	92.5	114.3	242.6	589.9	2372.6	4521.9
70°	77.7	77.7	79.4	82.0	84.6	88.1	105.6	213.8	499.1	1964.3	4108.3
71°	75.0	74.2	75.0	77.7	80.3	84.6	96.9	189.4	408.4	1630.9	3701.6
72°	69.8	71.6	71.6	74.2	76.8	79.4	90.8	164.9	342.9	1303.7	3254.0
72.5°	68.9	68.9	69.8	72.4	74.2	78.5	87.3	157.9	313.3	1149.2	3066.4
73°	66.3	66.3	67.2	69.8	71.6	75.9	84.6	142.2	285.3	1022.7	2715.6
74°	63.7	62.8	62.8	66.3	67.2	71.6	79.4	125.7	239.1	770.5	2179.8
75°	59.3	59.3	60.2	62.0	62.8	66.3	73.3	111.7	201.6	597.7	1705.1



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CANDELA DISTRIBUTION (continued):

	0°	5°	15°	25°	35°	45°	55°	65°	70°	75°	80°
77.5°	48.9	49.7	50.6	52.4	52.4	55.0	60.2	77.7	123.0	302.8	782.7
80°	35.8	37.5	40.1	42.8	41.9	41.9	47.1	55.8	73.3	136.1	300.2
82.5°	28.8	30.5	27.9	31.4	31.4	29.7	34.0	41.0	49.7	67.2	107.3
85°	19.2	20.1	16.6	19.2	18.3	18.3	22.7	24.4	30.5	37.5	53.2
87.5°	8.7	8.7	7.0	7.9	7.9	7.9	11.3	8.7	13.1	18.3	31.4
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°	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5	743.5
2.5°	745.2	748.7	748.7	745.2	742.6	745.2	743.5	739.1	743.5	745.2	746.1
5°	755.7	748.7	752.2	744.3	749.6	748.7	747.0	751.3	752.2	752.2	758.3
7.5°	767.0	775.8	764.4	765.3	767.9	757.4	760.9	762.7	759.2	766.2	771.4
10°	787.1	790.6	787.1	774.0	782.7	775.8	773.1	781.0	779.2	781.0	788.8
12.5°	805.4	811.5	801.9	801.1	796.7	790.6	794.1	793.2	805.4	807.2	816.8
15°	842.9	827.2	823.7	822.9	821.1	818.5	820.3	821.1	836.8	839.5	862.1
17.5°	875.2	872.6	853.4	860.4	860.4	849.9	845.6	860.4	872.6	885.7	901.4
20°	908.4	905.8	884.8	885.7	877.9	887.5	882.2	896.2	917.1	921.5	935.4
22.5°	947.7	936.3	921.5	923.2	925.8	918.9	915.4	934.6	955.5	967.7	968.6
25°	1009.6	980.8	968.6	970.3	966.9	961.6	964.2	988.7	999.1	1025.3	1020.1
27.5°	1042.8	1026.2	1017.5	997.4	998.3	990.4	1000.9	1037.5	1058.5	1078.6	1038.4
30°	1082.9	1072.4	1034.1	1027.1	1026.2	1022.7	1041.9	1089.0	1120.4	1131.8	1074.2
32.5°	1161.5	1119.6	1110.0	1103.9	1089.9	1094.3	1103.9	1165.8	1215.6	1212.9	1107.4
35°	1251.3	1222.5	1195.5	1190.2	1188.5	1176.3	1192.9	1265.3	1303.7	1292.3	1119.6
37.5°	1395.3	1351.7	1315.0	1295.0	1291.5	1282.7	1322.0	1379.6	1429.3	1384.8	1129.2
40°	1466.0	1417.1	1383.1	1370.9	1373.5	1385.7	1424.1	1512.2	1534.1	1452.0	1137.0
42.5°	1567.2	1514.0	1446.8	1440.7	1432.8	1438.9	1513.1	1631.8	1650.1	1542.8	1107.4
45°	1747.0	1666.7	1589.0	1554.1	1555.9	1572.5	1687.6	1817.7	1783.6	1605.6	1060.2
47.5°	1973.9	1856.1	1793.2	1746.1	1768.8	1750.5	1933.7	2037.6	1921.5	1685.0	1002.6
50°	2315.1	2150.1	2064.6	2007.9	2017.5	2033.2	2219.1	2307.2	2074.2	1723.4	914.5
52.5°	2745.3	2533.2	2407.5	2331.6	2338.6	2372.6	2612.6	2585.6	2248.7	1755.7	796.7
55°	3260.1	3041.9	2798.5	2767.1	2759.2	2840.4	3104.8	2877.0	2405.8	1704.2	674.5
56°	3532.4	3300.2	3047.2	2982.6	2963.4	3020.1	3330.8	3022.7	2459.9	1646.6	616.1
57°	3763.6	3541.9	3264.5	3154.5	3178.9	3285.4	3555.0	3159.7	2509.6	1587.3	561.1
58°	4081.2	3828.2	3535.0	3451.2	3429.4	3514.0	3796.8	3297.6	2526.2	1526.2	510.5
59°	4398.0	4094.3	3829.9	3677.2	3683.3	3837.8	4035.0	3461.7	2551.5	1448.5	445.9
60°	4638.8	4486.1	4132.7	4018.4	4002.7	4226.1	4272.3	3571.6	2578.6	1343.8	400.5
61°	4980.0	4781.1	4452.1	4304.6	4347.4	4526.3	4528.9	3709.5	2538.4	1211.2	344.7
62°	5225.2	5172.9	4827.3	4686.8	4673.7	4911.1	4795.9	3830.8	2503.5	1085.5	304.5
63°	5512.3	5512.3	5197.3	5087.4	5093.5	5281.1	4912.0	3952.1	2463.4	946.8	267.9
64°	5661.5	5849.1	5558.6	5404.1	5444.3	5606.6	5118.8	4031.5	2339.5	806.3	235.6
65°	5790.7	6072.5	5911.1	5839.5	5778.5	5874.5	5297.7	4105.7	2150.1	685.9	209.4
66°	5899.8	6282.8	6229.6	6152.8	6146.7	6124.9	5332.6	4103.0	1954.7	579.4	183.2
67°	5844.8	6287.2	6384.1	6416.3	6406.7	6176.4	5271.5	4009.7	1704.2	489.5	163.2
67.5°	5795.0	6251.4	6476.6	6458.2	6498.4	6220.0	5281.9	3895.4	1526.2	443.3	153.6
68°	5751.4	6203.4	6514.1	6537.6	6517.6	6225.2	5224.4	3804.6	1404.9	416.2	144.9
69°	5420.7	5975.7	6453.9	6538.5	6487.0	6025.4	5041.1	3568.1	1116.1	355.2	133.5
70°	5089.1	5680.7	6161.5	6316.9	6253.2	5638.8	4809.9	3192.0	920.6	303.7	120.4
71°	4630.1	5132.7	5772.4	5865.7	5788.9	5199.0	4331.7	2795.0	716.4	257.4	107.3
72°	4007.1	4433.8	5044.6	5270.6	5157.2	4566.4	3848.2	2309.8	580.3	216.4	97.7
72.5°	3698.1	4135.3	4724.3	4742.7	4764.5	4291.5	3643.2	2028.8	506.1	200.7	95.1
73°	3404.9	3833.4	4343.0	4407.6	4315.1	3828.2	3336.9	1814.2	462.5	183.2	91.6
74°	2759.2	3003.5	3425.9	3488.7	3407.6	3121.3	2726.9	1391.0	368.2	157.9	83.8
75°	2171.1	2305.5	2687.7	2649.3	2528.0	2427.6	2114.3	1062.8	298.4	138.7	77.7



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CANDELA DISTRIBUTION (continued):

	85°	87.5°	90°	92°	92.5°	95°	100°	105°	110°	115°	125°
77.5°	975.6	1056.7	1120.4	1120.4	1127.4	1075.9	974.7	487.8	184.1	100.4	63.7
80°	371.7	416.2	430.2	431.1	437.2	452.9	421.5	240.0	109.1	71.6	51.5
82.5°	269.6	377.0	405.8	384.8	386.6	349.0	161.4	106.5	68.9	49.7	37.5
85°	244.3	328.1	347.3	344.7	345.6	322.9	95.1	52.4	40.1	31.4	26.2
87.5°	118.7	116.1	123.0	138.7	135.3	175.4	80.3	26.2	17.5	13.1	13.1
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°	743.5	743.5	743.5	743.5	743.5	743.5
2.5°	739.1	738.2	750.5	738.2	745.2	740.0
5°	747.8	751.3	753.9	759.2	747.0	759.2
7.5°	774.0	777.5	778.4	782.7	777.5	776.6
10°	794.1	802.8	808.0	790.6	801.1	800.2
12.5°	833.3	824.6	823.7	820.3	810.7	807.2
15°	861.3	848.2	840.3	826.4	815.0	810.7
17.5°	900.5	875.2	842.9	814.2	794.1	778.4
20°	925.0	879.6	815.0	781.0	750.5	757.4
22.5°	940.7	875.2	789.7	746.1	715.5	724.3
25°	945.9	853.4	772.3	718.2	688.5	682.4
27.5°	931.1	828.1	738.2	677.2	651.0	656.2
30°	924.1	791.5	706.8	646.6	611.7	616.9
32.5°	905.8	753.9	664.9	603.9	578.5	569.8
35°	879.6	722.5	624.8	567.2	536.7	529.7
37.5°	847.3	683.3	589.9	520.1	493.0	487.8
40°	799.3	636.1	539.3	479.1	447.7	446.8
42.5°	757.4	590.8	492.2	430.2	398.8	400.5
45°	704.2	529.7	438.1	384.8	353.4	355.2
47.5°	636.1	473.0	386.6	327.2	301.1	299.3
50°	555.9	408.4	323.7	273.1	251.3	247.0
52.5°	479.1	342.9	265.3	219.9	201.6	199.8
55°	382.2	267.0	206.8	172.8	158.8	159.7
56°	347.3	246.1	188.5	157.9	147.5	147.5
57°	314.1	218.2	171.0	145.7	136.1	136.1
58°	277.5	192.0	155.3	131.8	127.4	123.9
59°	252.2	174.5	140.5	124.8	117.8	116.9
60°	222.5	157.1	130.9	116.9	111.7	110.8
61°	197.2	141.4	120.4	109.1	107.3	107.3
62°	176.3	130.9	111.7	105.6	104.7	102.1
63°	157.9	120.4	107.3	100.4	97.7	100.4
64°	141.4	110.8	103.8	98.6	95.1	96.9
65°	128.3	106.5	99.5	96.0	92.5	93.4
66°	119.5	99.5	96.0	91.6	89.9	90.8
67°	108.2	96.0	92.5	88.1	87.3	88.1
67.5°	104.7	93.4	90.8	86.4	85.5	86.4
68°	102.1	91.6	89.9	85.5	84.6	83.8
69°	95.1	88.1	85.5	83.8	82.0	81.2
70°	89.0	84.6	82.9	80.3	78.5	77.7
71°	85.5	80.3	79.4	76.8	75.0	74.2
72°	81.2	77.7	75.9	72.4	71.6	72.4
72.5°	80.3	75.9	75.0	71.6	70.7	70.7
73°	77.7	72.4	73.3	69.8	68.1	69.8
74°	72.4	70.7	68.9	66.3	65.4	65.4
75°	68.1	66.3	64.6	62.8	62.8	62.8



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CANDELA DISTRIBUTION (continued):

	135°	145°	155°	165°	175°	180°
77.5°	57.6	56.7	57.6	54.1	53.2	52.4
80°	46.2	46.2	47.1	44.5	42.8	41.9
82.5°	34.9	35.8	37.5	34.9	33.2	31.4
85°	22.7	23.6	23.6	20.9	24.4	22.7
87.5°	11.3	12.2	11.3	10.5	12.2	12.2
90°	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)