

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions

Brand: LUMARK

Report Number: P1197237

Luminaire Tested: AWPS150S-BZ-BZ-MID-4000K-POSITION 30

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197237
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (LDS)
Test Lab: INNOVATION CENTER
Issue Date: 10/30/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: LUMARK
Catalog Number: AWPS150S-BZ-BZ-MID-4000K-POSITION 30
Description: AWP Architectural
Light Source: 80 CRI, 4000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19110 (1 lamp)
Luminaire Lumens: 17231.7 lumens
Efficiency: 90.2%
Efficacy: 142.5 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')
IES Classification: Type IV - Short - Non-Cutoff
BUG Rating: B2 - U5 - G5

Input Watts (W): 120.9
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: 28.75 FT

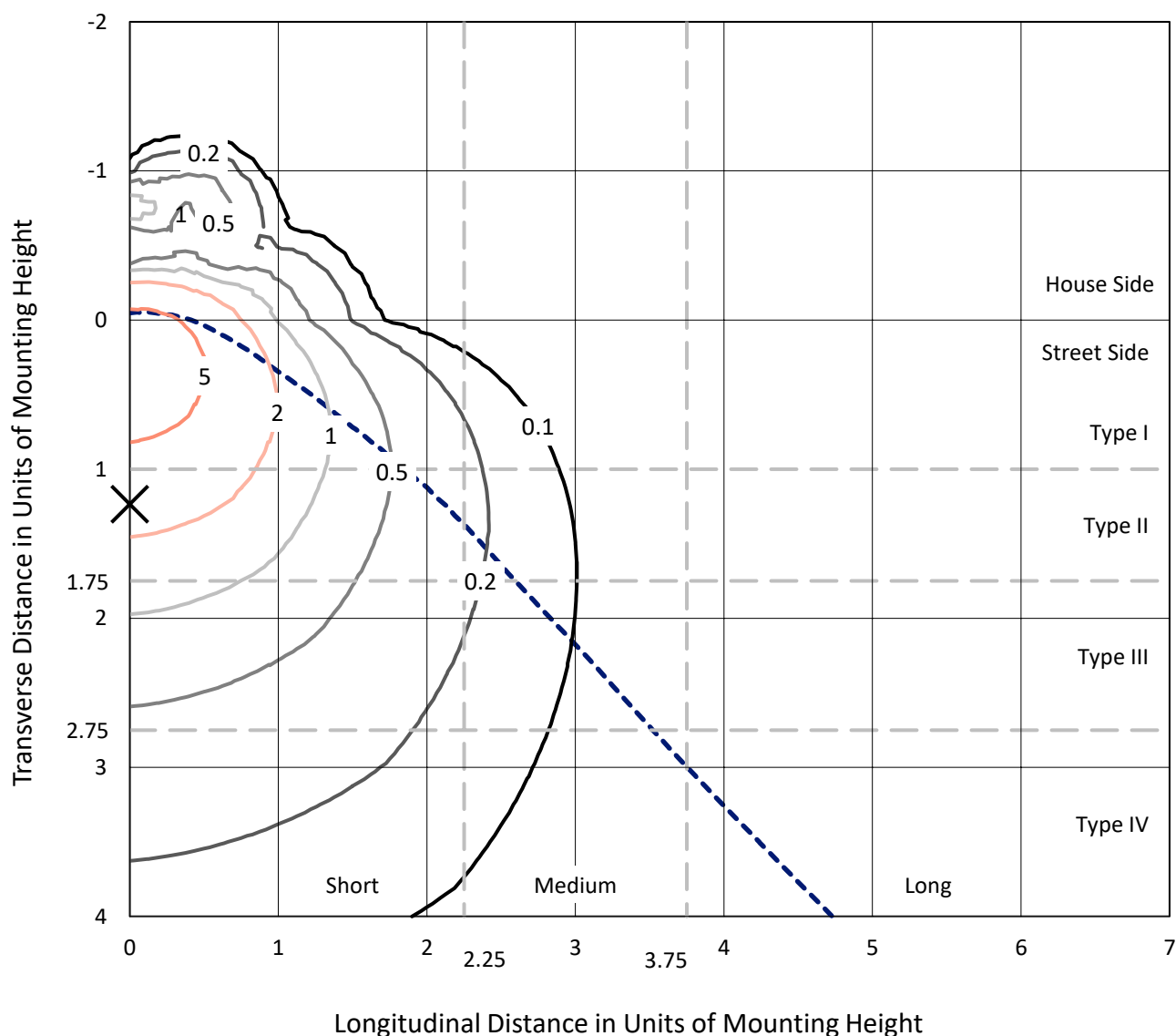
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

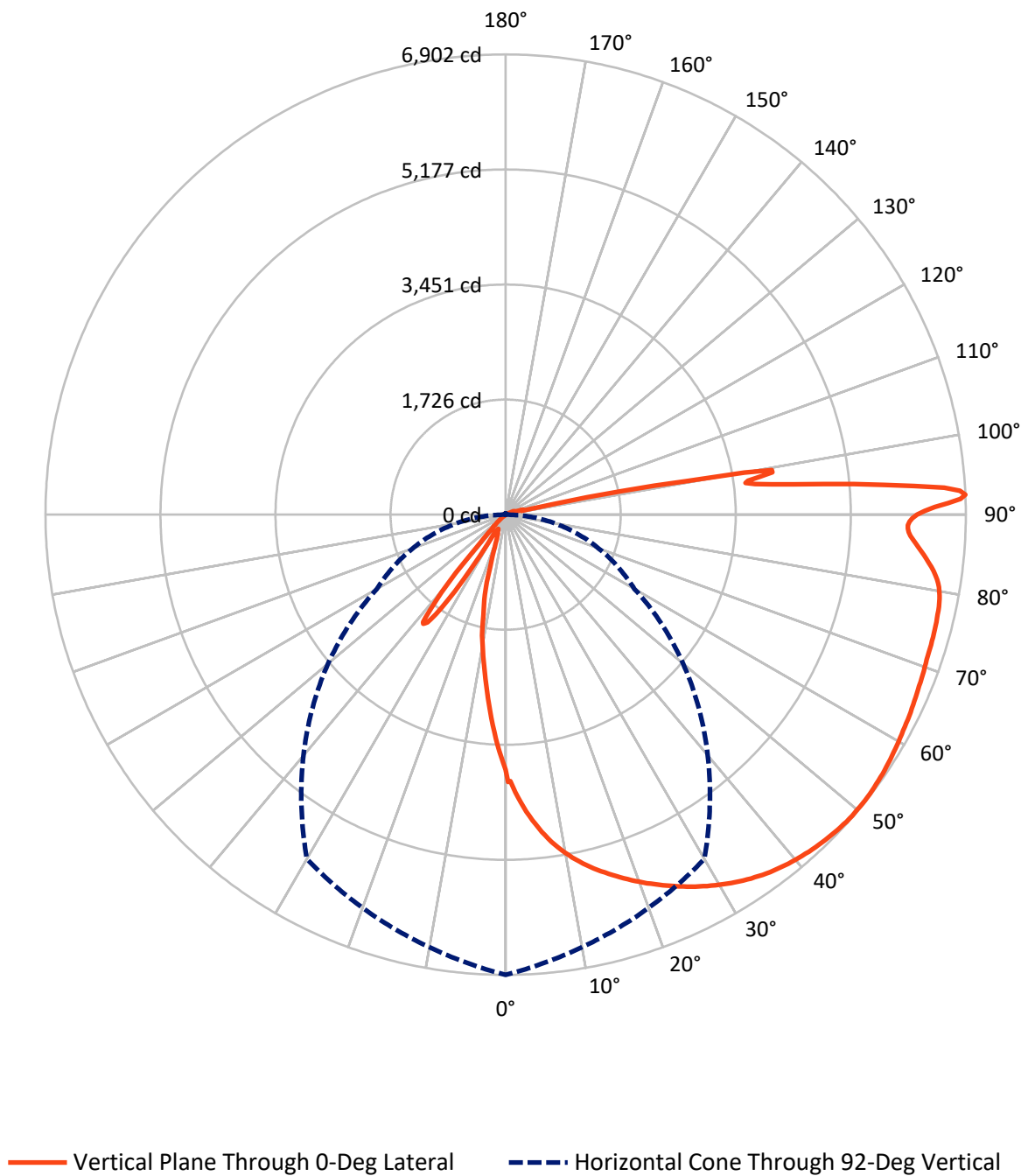


Based on 25 foot mounting height. Maximum calculated value = 8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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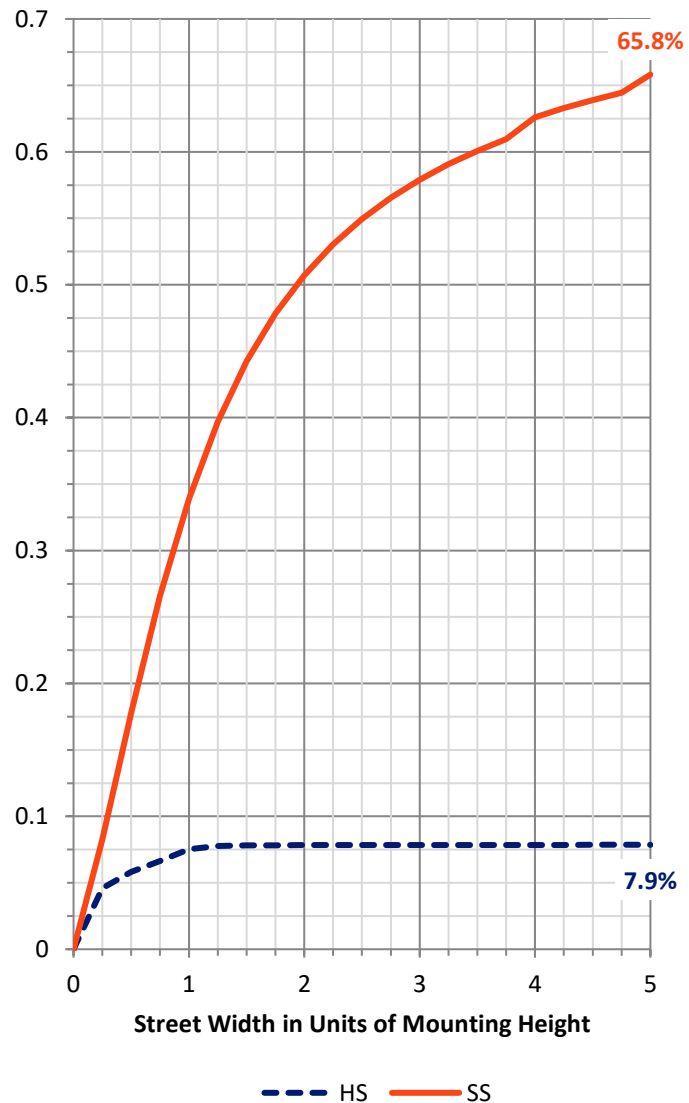
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1518.2	43.8	1561.9
	% Lamp	7.9	0.2	8.2
Street Side	Lumens	14087.2	1582.6	15669.7
	% Lamp	73.7	8.3	82.0
Total	Lumens	15605.3	1626.3	17231.7
	% Lamp	81.7	8.5	90.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	370.8	2.2	1.9
10°-20°	1003.9	5.8	5.3
20°-30°	1468.5	8.5	7.7
30°-40°	1924.4	11.2	10.1
40°-50°	2270.4	13.2	11.9
50°-60°	2238.3	13.0	11.7
60°-70°	2207.2	12.8	11.5
70°-80°	2134.2	12.4	11.2
80°-90°	1987.7	11.5	10.4
90°-100°	1460.9	8.5	7.6
100°-110°	112.5	0.7	0.6
110°-120°	21.6	0.1	0.1
120°-130°	8.0	0.0	0.0
130°-140°	7.4	0.0	0.0
140°-150°	6.5	0.0	0.0
150°-160°	5.1	0.0	0.0
160°-170°	3.3	0.0	0.0
170°-180°	1.1	0.0	0.0
0°-90°	15605.3	90.6	81.7
0°-180°	17231.7	100.0	90.2

Coefficient of Utilization



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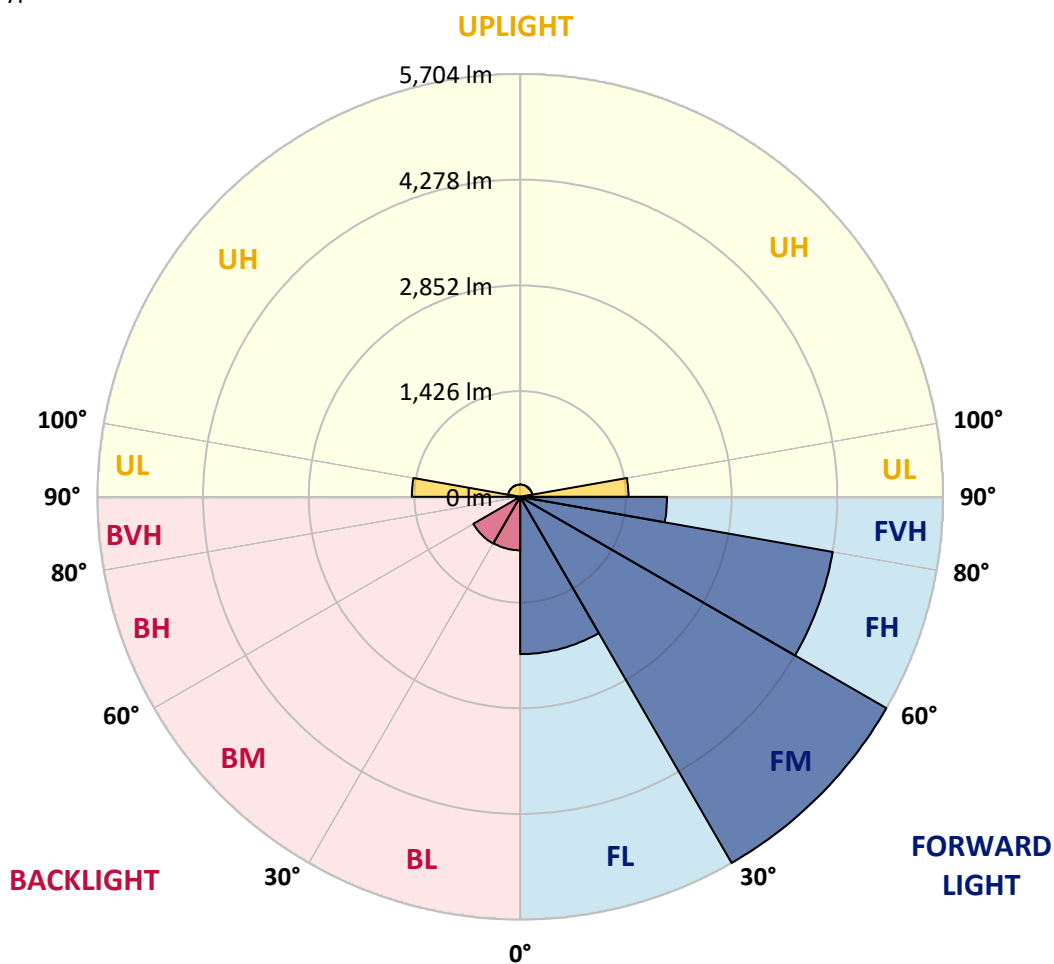
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2121.8	11.1			
FM	(30°-60°)	5703.9	29.8			
FH	(60°-80°)	4281.0	22.4			G2/5000
FVH	(80°-90°)	1980.5	10.4			G5
BL	(0°-30°)	721.3	3.8	B2/1000		
BM	(30°-60°)	729.2	3.8	B1/1000		
BH	(60°-80°)	60.5	0.3	B0/110		G0/110
BVH	(80°-90°)	7.2	0.0			G0/10
UL	(90°-100°)	1460.9	7.6		U5	
UH	(100°-180°)	165.4	0.9		U3/500	
Trapped Light		1878.3	9.8			

BUG Rating: B2-U5-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4	4007.4
0.5°	3998.0	4074.1	4072.2	4061.0	4011.4	3910.3	3825.4
1°	4083.9	4142.0	4111.8	4059.9	3967.7	3832.6	3729.9
1.5°	4165.9	4213.7	4152.3	4058.7	3923.8	3756.5	3639.5
2°	4240.8	4280.6	4191.2	4056.8	3878.4	3676.2	3550.7
2.5°	4317.7	4343.4	4229.3	4053.6	3831.5	3595.5	3452.7
3°	4392.6	4408.8	4265.5	4050.8	3784.0	3513.6	3357.5
3.5°	4463.4	4468.9	4299.6	4046.5	3735.6	3427.2	3260.5
4°	4531.5	4525.9	4334.0	4041.7	3685.8	3343.9	3159.0
4.5°	4602.0	4582.9	4367.4	4036.9	3634.9	3257.1	3056.5
5°	4657.6	4638.9	4398.3	4031.5	3585.7	3170.8	2960.1
5.5°	4722.8	4689.7	4430.1	4024.5	3534.1	3082.5	2860.1
6°	4785.6	4743.2	4459.8	4017.7	3479.6	2991.6	2760.0
6.5°	4842.0	4793.8	4489.5	4009.9	3426.9	2905.3	2666.6
7°	4897.9	4842.8	4518.2	4001.3	3371.0	2817.5	2573.5
7.5°	4954.2	4888.0	4544.6	3993.5	3316.3	2730.9	2478.3
8°	5004.5	4934.2	4571.0	3984.2	3260.3	2644.4	2395.6
8.5°	5054.9	4977.0	4596.0	3973.6	3202.5	2560.3	2313.0
9°	5102.1	5018.5	4619.5	3963.5	3146.7	2480.5	2230.6
9.5°	5149.6	5059.2	4643.5	3951.5	3088.4	2404.6	2148.1
10°	5192.9	5098.5	4666.0	3940.1	3027.8	2328.9	2065.5
10.5°	5237.1	5135.2	4687.3	3927.8	2971.3	2253.1	1987.3
11°	5279.0	5171.5	4707.9	3914.5	2910.5	2177.3	1913.0
11.5°	5318.5	5206.4	4728.4	3900.6	2849.8	2101.7	1846.3
12°	5357.2	5238.7	4746.5	3887.3	2790.0	2030.9	1750.1
12.5°	5394.6	5270.2	4764.5	3871.7	2730.8	1961.7	1634.1
13°	5431.2	5301.3	4781.1	3856.4	2668.5	1895.0	1540.6
13.5°	5467.4	5330.1	4796.5	3840.5	2608.7	1831.5	1457.1
14°	5500.8	5354.4	4811.6	3823.3	2550.1	1772.3	1384.4
14.5°	5536.1	5378.4	4826.4	3805.3	2488.9	1688.6	1316.8
15°	5567.7	5402.5	4839.9	3787.3	2429.1	1591.4	1241.5
15.5°	5603.1	5426.6	4853.7	3768.1	2371.7	1501.8	1154.3
16°	5635.7	5450.8	4866.2	3747.6	2311.3	1425.9	1051.0
16.5°	5668.4	5477.6	4876.9	3727.9	2254.2	1354.3	933.3
17°	5701.6	5497.9	4886.1	3707.1	2197.9	1290.7	820.8
17.5°	5735.0	5521.6	4895.3	3684.7	2139.2	1223.2	719.5
18°	5765.1	5545.2	4904.3	3663.8	2082.9	1150.4	638.0
18.5°	5797.2	5568.1	4912.2	3642.1	2029.0	1064.9	566.9
19°	5828.5	5591.7	4919.1	3618.4	1973.3	968.3	509.3
19.5°	5858.9	5615.3	4925.7	3595.7	1919.8	862.0	460.2
20°	5888.4	5637.7	4931.3	3571.4	1869.8	764.2	417.7
20.5°	5920.6	5661.1	4937.2	3546.5	1819.8	675.1	384.4
21°	5947.7	5683.4	4942.0	3520.7	1770.2	599.6	357.4
21.5°	5977.9	5704.2	4945.8	3494.6	1723.7	536.2	336.9
22°	6008.0	5725.7	4948.8	3468.0	1678.5	485.3	322.2

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	6037.0	5746.0	4951.0	3441.5	1630.8	441.0	311.3
23°	6066.1	5766.9	4953.1	3414.8	1585.5	403.7	304.1
23.5°	6095.1	5786.4	4955.0	3387.0	1541.5	372.6	299.6
24°	6124.1	5807.3	4956.2	3358.4	1502.0	349.5	297.2
24.5°	6150.2	5826.2	4957.1	3331.4	1456.7	331.1	294.2
25°	6178.8	5846.0	4956.9	3302.0	1398.4	317.8	288.3
25.5°	6206.9	5865.3	4956.6	3271.7	1329.9	309.1	277.8
26°	6234.1	5884.4	4956.2	3242.1	1265.6	303.4	265.8
26.5°	6260.2	5903.3	4953.9	3210.6	1207.2	301.8	258.7
27°	6286.7	5920.0	4952.1	3178.0	1153.8	303.7	251.9
27.5°	6311.4	5935.9	4949.1	3147.1	1100.7	308.1	245.2
28°	6337.5	5953.4	4945.5	3113.9	1051.6	314.9	238.4
28.5°	6358.7	5970.5	4941.9	3079.2	999.2	323.2	244.9
29°	6384.4	5987.6	4937.8	3045.8	947.2	332.6	254.4
29.5°	6407.2	6003.1	4932.6	3011.4	892.9	342.3	266.7
30°	6431.8	6021.1	4927.2	2974.2	842.9	350.4	278.5
30.5°	6455.1	6036.7	4921.6	2938.6	791.6	354.5	284.4
31°	6477.7	6051.8	4915.2	2902.2	738.7	351.5	288.0
31.5°	6499.3	6066.8	4908.1	2864.5	685.1	343.0	309.5
32°	6521.1	6081.7	4900.0	2826.4	637.1	330.3	515.5
32.5°	6541.2	6095.8	4892.3	2789.4	599.5	316.5	731.3
33°	6562.3	6110.7	4884.5	2749.4	572.2	304.9	947.2
33.5°	6582.0	6124.6	4876.4	2710.2	546.6	296.5	1163.0
34°	6599.5	6137.0	4867.6	2672.5	520.9	288.9	1379.0
34.5°	6617.0	6148.6	4858.4	2632.7	495.3	282.2	1538.9
35°	6634.8	6160.9	4850.2	2592.9	469.7	278.8	1691.7
35.5°	6651.5	6172.7	4839.9	2553.6	444.0	271.6	1823.5
36°	6666.8	6184.1	4829.8	2515.3	429.6	264.0	1929.1
36.5°	6682.3	6194.1	4819.3	2476.0	417.0	256.0	1996.9
37°	6696.5	6203.9	4808.9	2437.5	407.0	247.7	2025.2
37.5°	6708.5	6212.3	4798.7	2399.6	397.3	248.0	2049.3
38°	6722.7	6221.4	4788.3	2361.4	389.1	249.4	2033.1
38.5°	6735.1	6230.4	4777.2	2323.1	380.4	252.3	1946.8
39°	6746.6	6236.2	4765.6	2283.8	372.6	257.6	1795.0
39.5°	6758.5	6242.6	4754.6	2242.5	365.5	270.3	1656.0
40°	6768.3	6249.2	4742.2	2200.1	360.3	448.4	1512.0
40.5°	6778.4	6254.0	4730.6	2153.1	355.7	630.3	1341.8
41°	6788.7	6259.4	4717.9	2103.0	351.3	812.0	1144.3
41.5°	6799.3	6263.5	4704.4	2051.4	346.3	993.7	942.9
42°	6807.5	6267.3	4690.9	1999.6	341.4	1175.3	736.7
42.5°	6817.5	6269.0	4676.7	1944.5	336.0	1316.8	583.6
43°	6825.8	6272.2	4663.3	1888.5	330.9	1392.2	483.9
43.5°	6832.5	6273.7	4648.8	1832.4	325.6	1428.3	414.3
44°	6839.8	6275.2	4633.0	1778.7	320.0	1447.4	360.3
44.5°	6847.2	6275.0	4617.7	1726.4	314.1	1459.7	317.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	6854.5	6276.5	4601.9	1676.0	307.5	1443.6	283.3
45.5°	6860.9	6275.6	4584.9	1623.2	300.6	1389.6	261.9
46°	6866.6	6276.1	4567.5	1572.4	293.8	1301.9	240.9
46.5°	6871.6	6274.5	4550.2	1523.5	287.1	1224.3	219.9
47°	6875.7	6272.6	4532.1	1474.8	280.6	1141.0	199.0
47.5°	6879.6	6270.0	4514.0	1426.6	274.3	1060.8	178.2
48°	6883.0	6267.4	4494.6	1381.0	267.6	986.9	161.7
48.5°	6885.3	6263.8	4475.8	1333.8	260.7	917.5	144.1
49°	6885.5	6259.6	4456.1	1291.2	253.7	851.1	126.5
49.5°	6885.8	6254.5	4436.7	1251.8	246.2	788.7	110.7
50°	6886.1	6249.4	4416.9	1213.0	238.6	718.6	94.1
50.5°	6886.4	6243.6	4394.2	1173.2	231.8	649.6	77.9
51°	6886.6	6238.4	4372.4	1137.7	224.8	584.7	60.6
51.5°	6884.9	6231.8	4349.0	1103.9	218.2	521.1	46.2
52°	6884.0	6226.4	4326.6	1071.2	211.8	464.1	35.5
52.5°	6879.8	6218.8	4302.5	1039.5	205.8	415.6	29.1
53°	6877.3	6211.9	4278.6	1007.8	197.1	369.9	26.7
53.5°	6871.5	6204.5	4253.4	975.2	181.2	322.5	24.6
54°	6868.9	6197.4	4228.7	939.1	168.1	272.3	22.4
54.5°	6865.4	6189.2	4203.3	894.7	156.5	224.8	20.1
55°	6860.7	6182.9	4177.2	844.1	144.9	177.4	17.9
55.5°	6854.8	6174.8	4150.1	789.7	137.7	130.1	16.1
56°	6849.8	6166.4	4122.1	732.0	130.4	82.7	14.3
56.5°	6844.6	6156.8	4094.7	674.2	116.8	35.4	12.2
57°	6838.0	6149.0	4066.4	619.6	100.0	17.6	10.8
57.5°	6831.3	6139.7	4038.7	573.0	90.5	15.5	9.9
58°	6824.8	6129.4	4010.7	540.2	85.4	15.4	9.1
58.5°	6818.0	6120.5	3980.3	516.3	82.4	15.4	8.3
59°	6811.5	6109.1	3949.7	498.6	79.7	15.2	7.8
59.5°	6805.6	6098.6	3920.4	485.9	77.4	14.9	7.4
60°	6798.9	6085.9	3889.9	476.1	75.1	14.5	7.1
60.5°	6793.7	6074.4	3860.6	467.5	72.3	13.9	6.9
61°	6786.4	6062.1	3829.7	459.2	67.8	12.8	6.8
61.5°	6781.3	6050.6	3800.2	451.2	64.0	12.1	6.6
62°	6774.6	6036.0	3772.4	442.9	60.5	11.6	6.6
62.5°	6769.4	6021.1	3743.3	434.3	56.6	11.1	6.5
63°	6763.0	6007.0	3716.5	425.5	51.7	10.5	6.4
63.5°	6758.4	5992.8	3688.6	417.0	45.9	10.1	6.3
64°	6752.0	5976.0	3661.0	408.4	41.5	9.6	6.3
64.5°	6745.2	5960.7	3632.3	400.0	38.4	9.1	6.3
65°	6738.5	5945.1	3603.6	391.2	35.5	8.7	6.3
65.5°	6732.6	5928.2	3574.7	381.8	32.9	8.2	6.3
66°	6726.7	5910.8	3545.1	372.3	30.1	7.8	6.4
66.5°	6720.5	5897.6	3514.6	363.6	27.2	7.4	6.5
67°	6714.1	5882.0	3481.9	354.9	24.1	7.1	6.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	6708.9	5866.1	3450.0	346.1	20.8	6.8	6.8
68°	6704.7	5852.4	3416.9	336.9	17.5	6.4	7.0
68.5°	6699.8	5839.0	3382.7	327.1	14.1	6.1	7.2
69°	6694.6	5824.9	3347.6	317.1	10.9	5.9	7.4
69.5°	6690.4	5812.9	3310.7	307.9	8.3	5.7	7.5
70°	6686.2	5800.7	3273.4	299.1	6.9	5.5	7.7
70.5°	6680.4	5788.6	3235.9	290.0	6.5	5.4	7.9
71°	6677.9	5779.6	3194.4	280.3	6.3	5.4	8.1
71.5°	6675.2	5770.0	3153.2	271.0	6.2	5.4	8.2
72°	6672.8	5761.3	3111.2	261.9	6.1	5.4	8.4
72.5°	6671.9	5752.8	3070.9	251.6	5.8	5.5	8.5
73°	6670.2	5746.6	3031.0	241.3	5.4	5.5	8.7
73.5°	6667.7	5740.4	2991.9	231.0	5.3	5.6	9.0
74°	6665.9	5733.6	2951.5	220.8	5.3	5.6	9.2
74.5°	6662.6	5727.3	2910.1	209.6	5.3	5.7	9.5
75°	6660.1	5718.9	2869.2	197.8	5.3	5.9	9.7
75.5°	6659.0	5713.4	2824.7	185.9	5.3	6.1	10.0
76°	6654.9	5708.8	2772.4	173.8	5.3	6.3	10.2
76.5°	6650.9	5705.0	2718.4	162.1	5.3	6.5	10.5
77°	6648.4	5701.8	2664.9	150.5	5.3	6.7	10.7
77.5°	6643.5	5701.2	2609.4	138.8	5.3	6.9	10.9
78°	6636.6	5699.1	2555.9	127.5	5.4	7.1	11.0
78.5°	6629.2	5693.8	2505.3	116.9	5.4	7.3	11.2
79°	6619.3	5685.8	2459.1	105.9	5.5	7.5	11.5
79.5°	6605.6	5677.5	2414.2	95.3	5.5	7.6	11.7
80°	6589.2	5671.8	2368.9	84.8	5.6	7.8	11.9
80.5°	6567.1	5665.9	2323.2	75.1	5.7	8.0	12.1
81°	6541.4	5660.4	2281.8	66.7	5.7	8.2	12.3
81.5°	6509.0	5654.3	2241.5	59.5	5.8	8.4	12.6
82°	6474.7	5647.4	2202.5	53.5	5.9	8.6	12.8
82.5°	6435.5	5642.8	2165.2	47.8	6.0	8.8	13.0
83°	6390.7	5635.9	2123.4	43.0	6.0	9.0	13.2
83.5°	6344.9	5628.0	2082.4	38.6	6.1	9.1	13.3
84°	6302.3	5620.5	2041.5	34.5	6.2	9.3	13.5
84.5°	6254.9	5611.7	2000.6	30.8	6.3	9.5	13.7
85°	6208.2	5598.4	1962.2	27.5	6.4	9.7	13.9
85.5°	6166.4	5588.1	1927.8	24.5	6.6	9.9	14.2
86°	6121.0	5584.1	1896.5	21.7	6.7	10.1	14.3
86.5°	6080.9	5598.5	1870.8	19.2	6.8	10.3	14.5
87°	6050.2	5631.5	1850.6	16.8	6.9	10.5	14.7
87.5°	6036.4	5683.5	1842.8	14.6	7.1	10.7	14.9
88°	6037.3	5761.9	1847.5	12.5	7.2	10.9	15.1
88.5°	6059.3	5879.4	1867.0	10.7	7.3	11.1	15.2
89°	6099.1	6012.0	1905.2	9.2	7.5	11.3	15.4
89.5°	6173.2	6168.6	1963.7	8.0	7.6	11.4	15.5

REPORT NUMBER: P1197237

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	6287.3	6313.9	2027.4	6.7	7.7	11.6	15.7
90.5°	6438.7	6417.4	2096.7	6.3	7.9	11.8	15.8
91°	6638.3	6419.3	2164.1	6.2	8.0	12.0	16.0
91.5°	6827.2	6289.9	2217.1	6.1	8.2	12.2	16.1
92°	6902.1	5960.6	2230.3	6.0	8.3	12.4	16.3
92.5°	6825.3	5472.5	2199.5	5.9	8.4	12.5	16.4
93°	6590.5	4888.1	2112.9	5.8	8.5	12.7	16.6
93.5°	6140.2	4356.3	1965.6	5.7	8.7	12.8	16.7
94°	5690.9	3923.4	1739.3	5.6	8.8	13.0	16.8
94.5°	5242.9	3631.1	1468.0	5.6	8.9	13.1	16.9
95°	4795.9	3417.4	1191.6	5.5	9.0	13.2	17.0
95.5°	4353.1	3335.1	945.4	5.4	9.1	13.3	17.1
96°	4016.1	3433.5	769.6	5.4	9.2	13.5	17.2
96.5°	3767.3	3689.9	682.9	5.4	9.3	13.6	17.3
97°	3627.6	3936.4	596.2	5.3	9.4	13.8	17.5
97.5°	3672.2	4007.3	509.5	5.3	9.5	14.0	17.6
98°	3853.3	3688.4	422.8	5.2	9.6	14.1	17.7
98.5°	4050.7	2986.8	336.4	5.2	9.8	14.3	17.8
99°	4046.4	2154.6	323.0	5.1	9.9	14.5	17.9
99.5°	3636.3	1667.7	324.2	5.1	10.0	14.6	18.0
100°	2776.6	1199.2	311.1	5.0	10.1	14.7	18.1
100.5°	2267.1	730.7	297.0	5.0	10.2	14.9	18.2
101°	1757.7	262.2	279.2	4.9	10.2	15.0	18.3
101.5°	1252.9	242.2	249.1	4.9	10.3	15.2	18.3
102°	748.0	227.4	238.7	4.9	10.4	15.3	18.4
102.5°	257.0	212.6	227.0	4.8	10.5	15.4	18.4
103°	243.5	197.6	196.2	4.8	10.6	15.5	18.5
103.5°	242.3	201.4	118.1	4.8	10.7	15.6	18.5
104°	252.5	196.3	88.4	4.8	10.7	15.7	18.6
104.5°	263.2	183.2	74.8	4.8	10.8	15.8	18.6
105°	268.7	165.3	62.9	4.8	10.9	15.9	18.7
105.5°	263.1	148.2	53.5	4.8	11.0	16.0	18.7
106°	235.4	129.2	44.8	4.8	11.1	16.1	18.8
106.5°	208.7	115.4	37.5	4.8	11.1	16.2	18.8
107°	189.8	105.8	30.7	4.9	11.2	16.3	18.9
107.5°	170.5	99.2	24.8	4.9	11.3	16.5	18.9
108°	154.4	95.5	20.3	4.9	11.4	16.6	19.0
108.5°	144.9	93.1	16.5	4.9	11.5	16.7	19.0
109°	141.1	92.4	13.7	4.9	11.6	16.7	19.1
109.5°	141.1	95.2	12.1	5.0	11.7	16.8	19.1
110°	142.8	99.4	11.0	5.1	11.7	16.9	19.1
110.5°	143.1	102.8	9.9	5.1	11.8	16.9	19.2
111°	141.6	104.5	8.8	5.2	11.9	17.0	19.2
111.5°	140.0	103.7	7.7	5.3	11.9	17.1	19.2
112°	137.1	100.8	6.9	5.4	12.0	17.1	19.2

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CATALOG NUMBER: AWPS150S-BZ-BZ-MID-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	130.5	96.6	6.2	5.4	12.1	17.2	19.3
113°	124.3	86.5	5.7	5.5	12.1	17.2	19.3
113.5°	115.9	67.3	5.2	5.6	12.2	17.3	19.3
114°	104.2	44.8	4.8	5.6	12.3	17.3	19.3
114.5°	89.9	24.8	4.4	5.7	12.3	17.4	19.4
115°	74.0	15.6	4.1	5.8	12.4	17.5	19.4
115.5°	59.8	12.1	3.9	5.9	12.5	17.5	19.4
116°	45.3	9.4	3.7	5.9	12.5	17.5	19.4
116.5°	28.4	6.9	3.5	6.0	12.6	17.6	19.4
117°	17.1	4.9	3.2	6.1	12.7	17.6	19.4
117.5°	12.2	3.6	3.0	6.2	12.7	17.7	19.5
118°	9.1	2.7	2.8	6.2	12.8	17.7	19.5
118.5°	6.6	2.3	2.7	6.3	12.8	17.7	19.5
119°	4.8	1.9	2.6	6.4	12.9	17.7	19.5
119.5°	3.7	1.8	2.4	6.5	12.9	17.8	19.5
120°	3.0	1.7	2.3	6.6	13.0	17.8	19.5
120.5°	2.4	1.6	2.3	6.7	13.0	17.8	19.5
121°	2.0	1.5	2.3	6.7	13.1	17.9	19.5
121.5°	1.8	1.5	2.2	6.8	13.1	17.9	19.5
122°	1.8	1.5	2.2	6.9	13.2	17.9	19.5
122.5°	1.7	1.4	2.3	7.0	13.2	17.9	19.5
123°	1.7	1.4	2.3	7.0	13.3	18.0	19.5
123.5°	1.6	1.4	2.3	7.1	13.3	18.0	19.5
124°	1.6	1.4	2.4	7.2	13.4	18.0	19.5
124.5°	1.6	1.4	2.5	7.3	13.4	18.0	19.5
125°	1.6	1.4	2.5	7.4	13.5	18.0	19.5
125.5°	1.5	1.4	2.6	7.4	13.5	18.1	19.5
126°	1.5	1.4	2.7	7.5	13.5	18.1	19.5
126.5°	1.5	1.4	2.7	7.6	13.6	18.1	19.5
127°	1.5	1.3	2.8	7.7	13.6	18.1	19.5
127.5°	1.5	1.3	2.9	7.7	13.7	18.1	19.5
128°	1.4	1.3	2.9	7.8	13.7	18.1	19.5
128.5°	1.4	1.3	3.0	7.9	13.8	18.1	19.5
129°	1.3	1.3	3.1	8.0	13.8	18.1	19.4
129.5°	1.3	1.3	3.2	8.1	13.8	18.1	19.4
130°	1.3	1.3	3.3	8.1	13.9	18.1	19.4
130.5°	1.2	1.3	3.4	8.2	13.9	18.1	19.4
131°	1.2	1.3	3.4	8.3	14.0	18.1	19.3
131.5°	1.2	1.3	3.5	8.4	14.0	18.1	19.3
132°	1.2	1.3	3.6	8.4	14.1	18.1	19.3
132.5°	1.2	1.3	3.7	8.5	14.1	18.1	19.2
133°	1.2	1.3	3.8	8.6	14.1	18.1	19.2
133.5°	1.2	1.3	3.9	8.7	14.2	18.1	19.2
134°	1.2	1.3	4.0	8.8	14.2	18.1	19.1
134.5°	1.2	1.4	4.1	8.8	14.2	18.1	19.1

REPORT NUMBER: P1197237

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	1.2	1.4	4.2	8.9	14.3	18.1	19.1
135.5°	1.2	1.5	4.3	9.0	14.3	18.1	19.0
136°	1.2	1.5	4.4	9.1	14.3	18.1	19.0
136.5°	1.2	1.6	4.5	9.1	14.4	18.1	19.0
137°	1.3	1.6	4.6	9.2	14.4	18.1	19.0
137.5°	1.3	1.7	4.7	9.3	14.5	18.1	19.0
138°	1.3	1.7	4.8	9.4	14.5	18.1	19.0
138.5°	1.4	1.8	4.9	9.4	14.5	18.0	18.9
139°	1.4	1.8	5.0	9.5	14.5	18.0	18.9
139.5°	1.5	1.9	5.1	9.6	14.6	18.0	18.9
140°	1.5	2.0	5.2	9.7	14.6	18.0	18.9
140.5°	1.5	2.0	5.3	9.7	14.6	18.0	18.8
141°	1.6	2.1	5.4	9.8	14.7	18.0	18.8
141.5°	1.6	2.2	5.5	9.9	14.7	18.0	18.7
142°	1.7	2.2	5.6	9.9	14.7	18.0	18.6
142.5°	1.7	2.3	5.7	10.0	14.7	18.0	18.6
143°	1.8	2.4	5.8	10.1	14.7	17.9	18.5
143.5°	1.8	2.5	5.9	10.2	14.8	17.9	18.4
144°	1.8	2.5	5.9	10.2	14.8	17.9	18.3
144.5°	1.9	2.6	6.0	10.3	14.8	17.8	18.2
145°	1.9	2.7	6.1	10.3	14.8	17.8	18.1
145.5°	2.0	2.7	6.2	10.4	14.8	17.7	18.0
146°	2.0	2.8	6.3	10.5	14.8	17.7	17.9
146.5°	2.0	2.9	6.4	10.5	14.8	17.7	17.8
147°	2.1	3.0	6.5	10.6	14.8	17.6	17.7
147.5°	2.1	3.1	6.6	10.7	14.8	17.6	17.6
148°	2.2	3.2	6.7	10.7	14.8	17.5	17.5
148.5°	2.2	3.3	6.8	10.8	14.9	17.5	17.4
149°	2.3	3.4	6.9	10.9	14.9	17.4	17.4
149.5°	2.3	3.5	7.0	10.9	14.9	17.4	17.3
150°	2.4	3.6	7.1	11.0	14.9	17.4	17.2
150.5°	2.4	3.7	7.2	11.0	14.9	17.3	17.2
151°	2.5	3.8	7.3	11.1	14.9	17.3	17.1
151.5°	2.5	3.9	7.4	11.1	14.9	17.3	17.0
152°	2.6	4.0	7.5	11.2	15.0	17.3	16.9
152.5°	2.7	4.1	7.6	11.3	15.0	17.2	16.8
153°	2.8	4.2	7.7	11.3	15.0	17.2	16.7
153.5°	2.8	4.3	7.8	11.4	15.0	17.2	16.6
154°	3.0	4.4	7.9	11.5	15.0	17.2	16.5
154.5°	3.1	4.6	8.0	11.5	15.0	17.2	16.3
155°	3.2	4.7	8.1	11.6	15.0	17.1	16.2
155.5°	3.3	4.8	8.2	11.6	15.0	17.1	16.1
156°	3.4	4.9	8.3	11.7	15.0	17.0	16.0
156.5°	3.5	5.0	8.4	11.8	15.0	17.0	15.9
157°	3.6	5.2	8.5	11.8	15.0	16.9	15.7

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CATALOG NUMBER: AWPS150S-BZ-BZ-MID-4000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	3.7	5.3	8.6	11.9	15.0	16.9	15.6
158°	3.8	5.4	8.7	11.9	15.0	16.8	15.5
158.5°	4.0	5.6	8.8	12.0	15.0	16.7	15.4
159°	4.1	5.7	8.9	12.0	15.0	16.7	15.3
159.5°	4.2	5.8	9.0	12.1	15.0	16.6	15.2
160°	4.4	6.0	9.1	12.1	15.0	16.5	15.1
160.5°	4.5	6.1	9.2	12.2	15.0	16.5	14.9
161°	4.6	6.3	9.3	12.3	15.0	16.4	14.8
161.5°	4.7	6.4	9.4	12.3	15.0	16.3	14.7
162°	4.9	6.6	9.5	12.3	14.9	16.3	14.6
162.5°	5.0	6.7	9.6	12.4	14.9	16.2	14.4
163°	5.1	6.9	9.7	12.4	14.9	16.1	14.2
163.5°	5.2	7.0	9.8	12.5	14.9	16.0	14.1
164°	5.3	7.1	9.9	12.5	14.9	16.0	13.9
164.5°	5.4	7.3	10.0	12.6	14.9	15.9	13.7
165°	5.5	7.4	10.1	12.6	14.9	15.8	13.6
165.5°	5.6	7.5	10.2	12.6	14.9	15.8	13.4
166°	5.7	7.7	10.3	12.7	14.9	15.7	13.3
166.5°	5.8	7.8	10.4	12.8	14.9	15.6	13.2
167°	5.9	7.9	10.4	12.8	14.8	15.6	13.1
167.5°	6.0	8.0	10.5	12.8	14.8	15.5	12.9
168°	6.1	8.2	10.6	12.9	14.8	15.4	12.8
168.5°	6.3	8.3	10.7	12.9	14.8	15.3	12.6
169°	6.4	8.4	10.8	13.0	14.8	15.3	12.5
169.5°	6.5	8.5	10.9	13.0	14.8	15.2	12.3
170°	6.6	8.7	11.0	13.1	14.7	15.1	12.2
170.5°	6.7	8.8	11.1	13.1	14.7	15.1	12.0
171°	6.9	8.9	11.2	13.1	14.6	14.9	11.9
171.5°	6.9	9.0	11.2	13.2	14.6	14.8	11.7
172°	7.1	9.1	11.3	13.2	14.5	14.7	11.5
172.5°	7.2	9.2	11.4	13.2	14.5	14.6	11.4
173°	7.3	9.3	11.5	13.2	14.4	14.5	11.2
173.5°	7.4	9.5	11.6	13.2	14.4	14.4	11.0
174°	7.5	9.6	11.7	13.3	14.4	14.3	10.9
174.5°	7.6	9.7	11.8	13.3	14.3	14.2	10.7
175°	7.7	9.8	11.8	13.3	14.3	14.1	10.5
175.5°	7.8	9.9	11.9	13.3	14.2	14.0	10.3
176°	7.9	10.0	12.0	13.4	14.2	14.0	10.2
176.5°	8.1	10.1	12.1	13.4	14.1	13.9	10.0
177°	8.2	10.3	12.1	13.4	14.1	13.8	9.9
177.5°	8.3	10.4	12.2	13.4	14.0	13.7	9.7
178°	8.4	10.5	12.3	13.4	14.0	13.6	9.6
178.5°	8.6	10.6	12.4	13.5	13.9	13.5	9.4
179°	8.7	10.7	12.4	13.5	13.8	13.4	9.3
179.5°	8.9	10.8	12.5	13.5	13.8	13.3	9.2



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	9.0	9.0	9.0	9.0	9.0	9.0	9.0

(END OF REPORT)