

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: P1197234

Luminaire Tested: AWPS150S-BZ-BZ-MID-3000K-POSITION 30

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197234
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-3000K-POSITION 30
Description: AWP Architectural
Light Source: 80 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19110 (1 lamp)
Luminaire Lumens: 16311.1 lumens
Efficiency: 85.4%
Efficacy: 130.4 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): 125.1
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

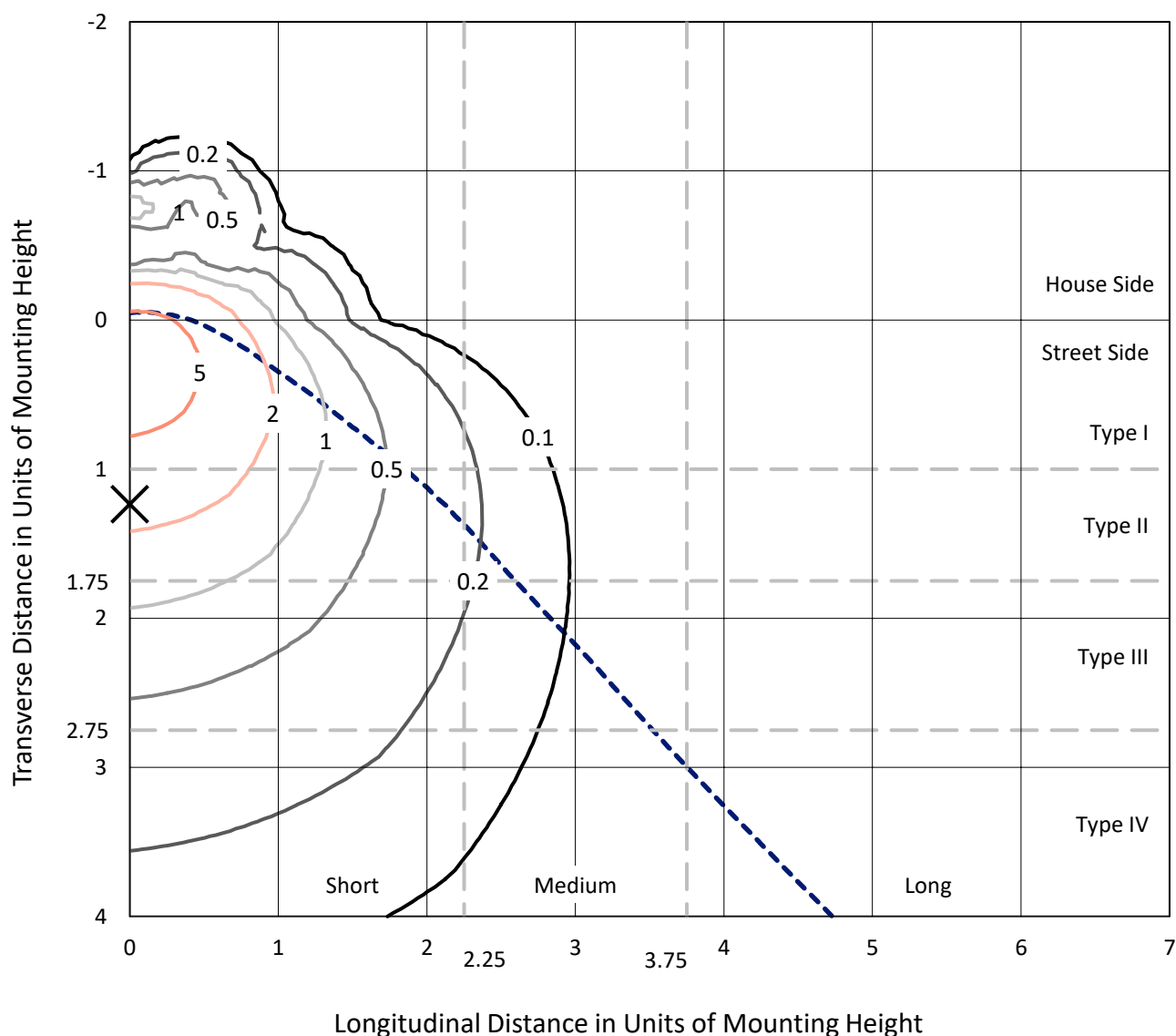
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

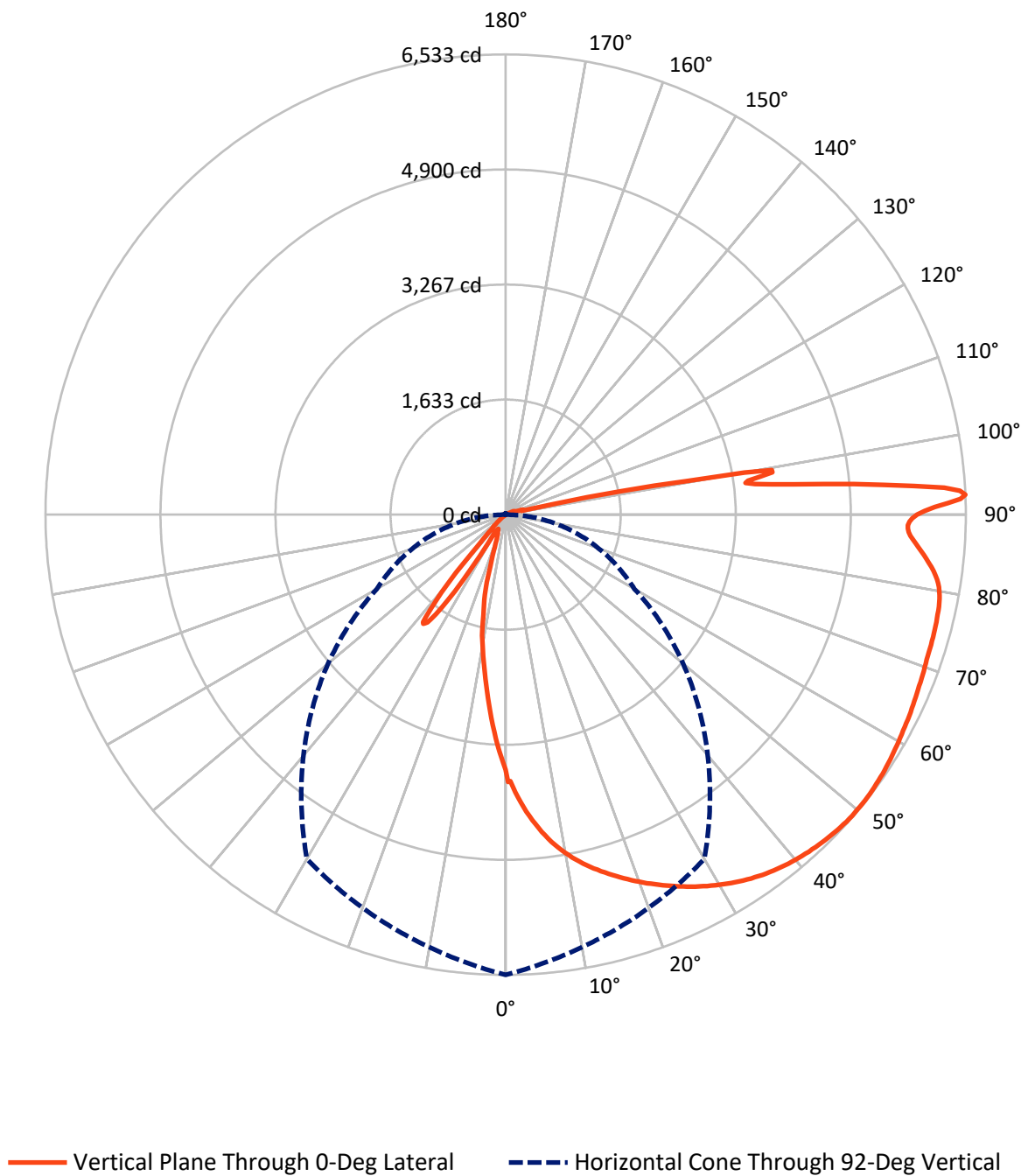


Based on 25 foot mounting height. Maximum calculated value = 7.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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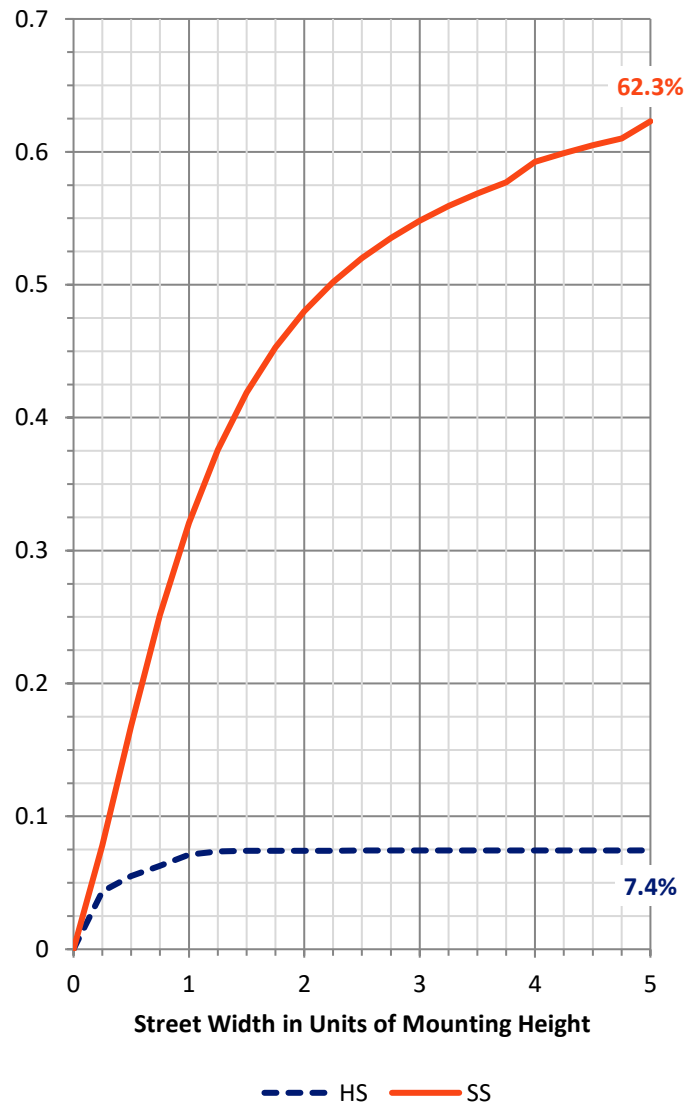
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1437.1	41.4	1478.5
	% Lamp	7.5	0.2	7.7
Street Side	Lumens	13334.6	1498.0	14832.6
	% Lamp	69.8	7.8	77.6
Total	Lumens	14771.7	1539.4	16311.1
	% Lamp	77.3	8.1	85.4

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	351.0	2.2	1.8
10°-20°	950.3	5.8	5.0
20°-30°	1390.0	8.5	7.3
30°-40°	1821.6	11.2	9.5
40°-50°	2149.1	13.2	11.2
50°-60°	2118.7	13.0	11.1
60°-70°	2089.3	12.8	10.9
70°-80°	2020.2	12.4	10.6
80°-90°	1881.5	11.5	9.8
90°-100°	1382.9	8.5	7.2
100°-110°	106.5	0.7	0.6
110°-120°	20.4	0.1	0.1
120°-130°	7.5	0.0	0.0
130°-140°	7.0	0.0	0.0
140°-150°	6.1	0.0	0.0
150°-160°	4.8	0.0	0.0
160°-170°	3.1	0.0	0.0
170°-180°	1.1	0.0	0.0
0°-90°	14771.7	90.6	77.3
0°-180°	16311.1	100.0	85.4

Coefficient of Utilization



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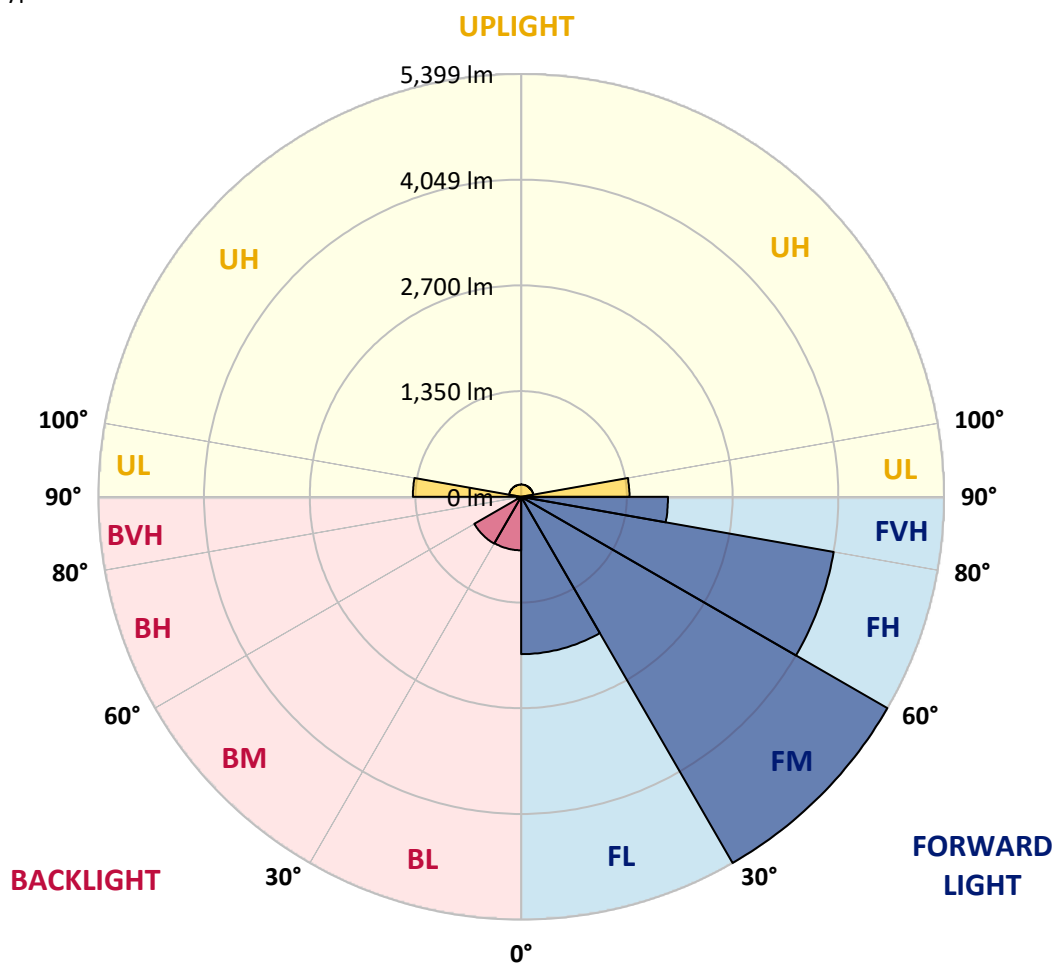
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2008.5	10.5			
FM	(30°-60°)	5399.2	28.3			
FH	(60°-80°)	4052.3	21.2			G2/5000
FVH	(80°-90°)	1874.7	9.8			G5
BL	(0°-30°)	682.8	3.6	B2/1000		
BM	(30°-60°)	690.2	3.6	B1/1000		
BH	(60°-80°)	57.2	0.3	B0/110		G0/110
BVH	(80°-90°)	6.8	0.0			G0/10
UL	(90°-100°)	1382.9	7.2		U5	
UH	(100°-180°)	156.6	0.8		U3/500	
Trapped Light		2798.9	14.6			

BUG Rating: B2-U5-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3	3793.3
0.5°	3784.4	3856.5	3854.6	3844.0	3797.1	3701.4	3621.0
1°	3865.8	3920.7	3892.1	3843.0	3755.7	3627.8	3530.6
1.5°	3943.3	3988.6	3930.5	3841.9	3714.2	3555.8	3445.1
2°	4014.3	4051.9	3967.3	3840.1	3671.2	3479.8	3361.0
2.5°	4087.1	4111.4	4003.3	3837.1	3626.8	3403.4	3268.2
3°	4158.0	4173.3	4037.6	3834.3	3581.8	3325.9	3178.1
3.5°	4224.9	4230.1	4069.9	3830.3	3536.0	3244.1	3086.3
4°	4289.4	4284.1	4102.5	3825.8	3488.9	3165.2	2990.3
4.5°	4356.1	4338.1	4134.1	3821.2	3440.7	3083.1	2893.2
5°	4408.7	4391.1	4163.3	3816.1	3394.2	3001.4	2802.0
5.5°	4470.5	4439.1	4193.4	3809.5	3345.3	2917.8	2707.3
6°	4529.9	4489.8	4221.6	3803.1	3293.7	2831.8	2612.5
6.5°	4583.4	4537.7	4249.6	3795.6	3243.8	2750.1	2524.1
7°	4636.3	4584.1	4276.9	3787.6	3191.0	2667.0	2436.0
7.5°	4689.5	4626.8	4301.8	3780.1	3139.1	2585.0	2345.9
8°	4737.1	4670.6	4326.8	3771.4	3086.1	2503.2	2267.6
8.5°	4784.9	4711.1	4350.5	3761.3	3031.4	2423.5	2189.5
9°	4829.5	4750.4	4372.7	3751.8	2978.6	2348.0	2111.4
9.5°	4874.5	4788.9	4395.4	3740.4	2923.4	2276.2	2033.3
10°	4915.4	4826.1	4416.8	3729.6	2866.0	2204.4	1955.1
10.5°	4957.3	4860.9	4436.9	3718.0	2812.5	2132.8	1881.1
11°	4997.0	4895.2	4456.4	3705.3	2755.0	2061.0	1810.8
11.5°	5034.4	4928.3	4475.8	3692.2	2697.5	1989.5	1747.7
12°	5071.0	4958.8	4492.9	3679.7	2640.9	1922.4	1656.6
12.5°	5106.4	4988.6	4510.0	3664.9	2584.9	1856.9	1546.8
13°	5141.0	5018.1	4525.6	3650.4	2526.0	1793.7	1458.3
13.5°	5175.3	5045.3	4540.2	3635.3	2469.3	1733.6	1379.3
14°	5206.9	5068.3	4554.6	3619.1	2413.9	1677.7	1310.5
14.5°	5240.3	5091.1	4568.6	3602.0	2356.0	1598.4	1246.4
15°	5270.3	5113.9	4581.3	3584.9	2299.4	1506.4	1175.2
15.5°	5303.8	5136.7	4594.4	3566.8	2245.0	1421.5	1092.7
16°	5334.7	5159.6	4606.2	3547.4	2187.8	1349.8	994.9
16.5°	5365.6	5185.0	4616.3	3528.8	2133.8	1282.0	883.4
17°	5397.0	5204.1	4625.1	3509.1	2080.5	1221.8	777.0
17.5°	5428.6	5226.6	4633.8	3487.9	2024.9	1157.8	681.1
18°	5457.1	5249.0	4642.3	3468.1	1971.6	1088.9	603.9
18.5°	5487.5	5270.7	4649.8	3447.5	1920.6	1008.0	536.7
19°	5517.1	5293.0	4656.3	3425.1	1867.9	916.5	482.1
19.5°	5545.9	5315.3	4662.5	3403.6	1817.2	816.0	435.6
20°	5573.8	5336.5	4667.8	3380.6	1769.9	723.4	395.4
20.5°	5604.3	5358.7	4673.5	3357.0	1722.6	639.0	363.8
21°	5630.0	5379.8	4678.0	3332.6	1675.7	567.6	338.3
21.5°	5658.6	5399.5	4681.6	3307.9	1631.6	507.6	318.9
22°	5687.1	5419.8	4684.4	3282.7	1588.8	459.4	305.0

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	5714.5	5439.1	4686.5	3257.6	1543.6	417.5	294.7
23°	5742.1	5458.8	4688.5	3232.4	1500.8	382.2	287.8
23.5°	5769.5	5477.3	4690.3	3206.0	1459.1	352.7	283.6
24°	5796.9	5497.1	4691.5	3179.0	1421.7	330.8	281.3
24.5°	5821.6	5514.9	4692.3	3153.4	1378.8	313.4	278.5
25°	5848.7	5533.7	4692.1	3125.6	1323.7	300.8	272.9
25.5°	5875.3	5552.0	4691.8	3096.9	1258.9	292.6	263.0
26°	5901.1	5570.1	4691.5	3068.9	1198.0	287.2	251.6
26.5°	5925.7	5587.9	4689.2	3039.1	1142.7	285.7	244.9
27°	5950.8	5603.7	4687.5	3008.2	1092.1	287.5	238.5
27.5°	5974.2	5618.8	4684.7	2979.0	1041.9	291.6	232.1
28°	5998.9	5635.3	4681.3	2947.5	995.4	298.1	225.7
28.5°	6019.0	5651.5	4677.9	2914.7	945.8	305.9	231.8
29°	6043.3	5667.7	4674.0	2883.1	896.6	314.9	240.8
29.5°	6064.9	5682.4	4669.1	2850.5	845.2	324.0	252.5
30°	6088.2	5699.4	4664.0	2815.3	797.9	331.7	263.6
30.5°	6110.3	5714.2	4658.7	2781.6	749.3	335.6	269.2
31°	6131.6	5728.5	4652.6	2747.1	699.2	332.8	272.6
31.5°	6152.1	5742.7	4645.9	2711.5	648.5	324.7	292.9
32°	6172.7	5756.8	4638.2	2675.4	603.1	312.7	487.9
32.5°	6191.8	5770.1	4631.0	2640.3	567.5	299.6	692.2
33°	6211.8	5784.3	4623.6	2602.6	541.7	288.6	896.6
33.5°	6230.4	5797.4	4615.9	2565.5	517.4	280.7	1100.9
34°	6246.9	5809.2	4607.6	2529.7	493.1	273.5	1305.3
34.5°	6263.5	5820.1	4598.8	2492.1	468.8	267.1	1456.7
35°	6280.3	5831.8	4591.1	2454.4	444.6	263.9	1601.3
35.5°	6296.2	5842.9	4581.3	2417.1	420.3	257.1	1726.1
36°	6310.6	5853.7	4571.8	2380.9	406.6	249.9	1826.0
36.5°	6325.3	5863.2	4561.8	2343.8	394.7	242.4	1890.2
37°	6338.8	5872.4	4552.0	2307.3	385.2	234.5	1917.0
37.5°	6350.1	5880.4	4542.3	2271.5	376.1	234.8	1939.8
38°	6363.6	5889.0	4532.5	2235.3	368.3	236.1	1924.5
38.5°	6375.3	5897.5	4522.0	2199.0	360.1	238.8	1842.8
39°	6386.2	5903.0	4511.0	2161.8	352.7	243.8	1699.1
39.5°	6397.5	5909.1	4500.6	2122.7	346.0	255.9	1567.5
40°	6406.7	5915.3	4488.8	2082.5	341.1	424.4	1431.2
40.5°	6416.3	5919.9	4477.8	2038.1	336.7	596.7	1270.1
41°	6426.0	5925.0	4465.9	1990.7	332.5	768.7	1083.1
41.5°	6436.0	5928.9	4453.1	1941.8	327.8	940.6	892.5
42°	6443.8	5932.5	4440.3	1892.8	323.1	1112.6	697.3
42.5°	6453.3	5934.1	4426.8	1840.6	318.0	1246.4	552.4
43°	6461.2	5937.1	4414.2	1787.7	313.2	1317.9	458.0
43.5°	6467.5	5938.6	4400.5	1734.5	308.2	1352.0	392.2
44°	6474.4	5939.9	4385.5	1683.7	302.9	1370.1	341.1
44.5°	6481.4	5939.8	4371.0	1634.2	297.3	1381.7	300.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	6488.3	5941.2	4356.0	1586.5	291.0	1366.5	268.2
45.5°	6494.4	5940.3	4339.9	1536.5	284.5	1315.3	247.9
46°	6499.7	5940.8	4323.5	1488.4	278.1	1232.3	228.0
46.5°	6504.5	5939.3	4307.1	1442.1	271.7	1158.9	208.2
47°	6508.3	5937.5	4289.9	1396.0	265.6	1080.1	188.4
47.5°	6512.1	5935.1	4272.8	1350.4	259.6	1004.1	168.6
48°	6515.2	5932.6	4254.5	1307.2	253.3	934.1	153.1
48.5°	6517.5	5929.2	4236.7	1262.5	246.8	868.5	136.4
49°	6517.7	5925.2	4218.1	1222.2	240.2	805.6	119.8
49.5°	6518.0	5920.4	4199.7	1184.9	233.0	746.5	104.8
50°	6518.2	5915.6	4180.9	1148.2	225.9	680.2	89.1
50.5°	6518.5	5910.1	4159.5	1110.6	219.5	614.9	73.7
51°	6518.7	5905.2	4138.8	1076.9	212.8	553.5	57.3
51.5°	6517.1	5898.8	4116.7	1045.0	206.6	493.3	43.8
52°	6516.2	5893.8	4095.4	1014.0	200.5	439.3	33.6
52.5°	6512.3	5886.6	4072.6	983.9	194.8	393.4	27.6
53°	6509.9	5880.0	4050.0	954.0	186.6	350.2	25.2
53.5°	6504.4	5873.1	4026.2	923.1	171.5	305.2	23.3
54°	6502.0	5866.3	4002.8	889.0	159.1	257.7	21.2
54.5°	6498.6	5858.5	3978.8	846.9	148.2	212.8	19.1
55°	6494.2	5852.6	3954.1	799.0	137.1	167.9	17.0
55.5°	6488.6	5844.9	3928.4	747.5	130.3	123.1	15.2
56°	6483.9	5837.0	3901.9	692.9	123.4	78.3	13.5
56.5°	6479.0	5827.8	3876.0	638.2	110.6	33.5	11.5
57°	6472.7	5820.5	3849.1	586.5	94.6	16.6	10.2
57.5°	6466.3	5811.7	3823.0	542.4	85.7	14.7	9.3
58°	6460.2	5801.9	3796.5	511.3	80.9	14.6	8.6
58.5°	6453.7	5793.5	3767.7	488.7	78.0	14.6	7.9
59°	6447.6	5782.8	3738.7	472.0	75.5	14.4	7.4
59.5°	6442.0	5772.8	3711.0	459.9	73.3	14.1	7.0
60°	6435.7	5760.7	3682.1	450.6	71.1	13.7	6.7
60.5°	6430.8	5749.9	3654.4	442.5	68.4	13.2	6.5
61°	6423.8	5738.2	3625.1	434.7	64.1	12.1	6.4
61.5°	6419.0	5727.4	3597.2	427.1	60.6	11.5	6.3
62°	6412.7	5713.6	3570.9	419.2	57.2	11.0	6.2
62.5°	6407.8	5699.5	3543.3	411.1	53.6	10.5	6.1
63°	6401.7	5686.1	3517.9	402.8	48.9	10.0	6.1
63.5°	6397.4	5672.6	3491.6	394.7	43.5	9.5	6.0
64°	6391.3	5656.7	3465.4	386.6	39.3	9.1	6.0
64.5°	6384.8	5642.3	3438.2	378.7	36.3	8.6	5.9
65°	6378.5	5627.5	3411.1	370.3	33.6	8.2	5.9
65.5°	6373.0	5611.5	3383.8	361.4	31.1	7.8	6.0
66°	6367.4	5595.0	3355.7	352.4	28.5	7.4	6.1
66.5°	6361.5	5582.5	3326.8	344.2	25.7	7.0	6.2
67°	6355.4	5567.8	3295.9	335.9	22.8	6.7	6.3

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	6350.5	5552.7	3265.7	327.6	19.7	6.4	6.5
68°	6346.5	5539.8	3234.3	318.9	16.5	6.1	6.6
68.5°	6341.9	5527.1	3202.0	309.6	13.4	5.8	6.8
69°	6337.0	5513.8	3168.7	300.2	10.4	5.6	7.0
69.5°	6333.0	5502.3	3133.9	291.5	7.8	5.4	7.1
70°	6329.0	5490.8	3098.5	283.1	6.5	5.2	7.3
70.5°	6323.5	5479.3	3063.0	274.5	6.1	5.1	7.5
71°	6321.2	5470.8	3023.8	265.4	6.0	5.1	7.6
71.5°	6318.6	5461.7	2984.8	256.5	5.9	5.1	7.8
72°	6316.3	5453.5	2945.0	247.9	5.8	5.2	7.9
72.5°	6315.5	5445.4	2906.8	238.2	5.4	5.2	8.1
73°	6313.8	5439.6	2869.0	228.4	5.1	5.2	8.3
73.5°	6311.5	5433.7	2832.1	218.7	5.0	5.3	8.5
74°	6309.8	5427.3	2793.8	209.0	5.0	5.3	8.7
74.5°	6306.7	5421.3	2754.7	198.4	5.0	5.4	9.0
75°	6304.3	5413.4	2715.9	187.3	5.0	5.6	9.2
75.5°	6303.2	5408.2	2673.8	176.0	5.0	5.8	9.4
76°	6299.4	5403.8	2624.3	164.6	5.0	6.0	9.7
76.5°	6295.6	5400.2	2573.2	153.4	5.0	6.2	9.9
77°	6293.2	5397.2	2522.5	142.4	5.0	6.4	10.1
77.5°	6288.6	5396.6	2470.0	131.4	5.1	6.5	10.3
78°	6282.1	5394.6	2419.3	120.7	5.1	6.7	10.4
78.5°	6275.0	5389.6	2371.5	110.7	5.1	6.9	10.6
79°	6265.7	5382.1	2327.7	100.2	5.2	7.1	10.8
79.5°	6252.7	5374.2	2285.3	90.2	5.2	7.2	11.1
80°	6237.2	5368.8	2242.4	80.2	5.3	7.4	11.3
80.5°	6216.3	5363.2	2199.1	71.1	5.4	7.6	11.5
81°	6191.9	5358.0	2159.9	63.2	5.4	7.8	11.7
81.5°	6161.2	5352.3	2121.7	56.3	5.5	8.0	11.9
82°	6128.8	5345.7	2084.8	50.6	5.6	8.1	12.1
82.5°	6091.7	5341.3	2049.5	45.3	5.6	8.3	12.3
83°	6049.3	5334.8	2009.9	40.7	5.7	8.5	12.4
83.5°	6006.0	5327.3	1971.1	36.6	5.8	8.6	12.6
84°	5965.6	5320.2	1932.5	32.6	5.9	8.8	12.8
84.5°	5920.8	5311.9	1893.7	29.1	6.0	9.0	13.0
85°	5876.5	5299.3	1857.3	26.1	6.1	9.2	13.2
85.5°	5837.0	5289.5	1824.8	23.2	6.2	9.4	13.4
86°	5794.0	5285.8	1795.2	20.6	6.3	9.6	13.6
86.5°	5756.1	5299.4	1770.8	18.2	6.4	9.8	13.8
87°	5727.0	5330.6	1751.7	15.9	6.6	10.0	13.9
87.5°	5713.9	5379.9	1744.3	13.8	6.7	10.1	14.1
88°	5714.8	5454.0	1748.8	11.8	6.8	10.3	14.3
88.5°	5735.6	5565.3	1767.3	10.1	6.9	10.5	14.4
89°	5773.3	5690.8	1803.4	8.7	7.1	10.7	14.5
89.5°	5843.4	5839.0	1858.8	7.6	7.2	10.8	14.7

REPORT NUMBER: P1197234

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	5951.4	5976.6	1919.1	6.3	7.3	11.0	14.8
90.5°	6094.8	6074.6	1984.7	6.0	7.5	11.2	15.0
91°	6283.6	6076.4	2048.5	5.9	7.6	11.4	15.1
91.5°	6462.5	5953.9	2098.6	5.8	7.7	11.5	15.3
92°	6533.4	5642.1	2111.2	5.7	7.8	11.7	15.4
92.5°	6460.7	5180.2	2082.0	5.6	8.0	11.9	15.6
93°	6238.4	4627.0	2000.0	5.5	8.1	12.0	15.7
93.5°	5812.2	4123.6	1860.6	5.4	8.2	12.2	15.8
94°	5386.9	3713.8	1646.4	5.3	8.3	12.3	15.9
94.5°	4962.9	3437.1	1389.6	5.3	8.4	12.4	16.0
95°	4539.7	3234.8	1128.0	5.2	8.5	12.5	16.1
95.5°	4120.5	3157.0	894.9	5.2	8.6	12.6	16.2
96°	3801.5	3250.1	728.5	5.1	8.7	12.8	16.3
96.5°	3566.0	3492.8	646.4	5.1	8.8	12.9	16.4
97°	3433.8	3726.1	564.3	5.0	8.9	13.1	16.5
97.5°	3476.0	3793.2	482.3	5.0	9.0	13.2	16.6
98°	3647.4	3491.4	400.2	4.9	9.1	13.4	16.7
98.5°	3834.3	2827.2	318.4	4.9	9.2	13.5	16.9
99°	3830.2	2039.5	305.7	4.9	9.3	13.7	17.0
99.5°	3442.0	1578.6	306.9	4.8	9.4	13.8	17.1
100°	2628.2	1135.1	294.4	4.8	9.5	14.0	17.2
100.5°	2146.0	691.7	281.2	4.7	9.6	14.1	17.2
101°	1663.8	248.2	264.2	4.7	9.7	14.2	17.3
101.5°	1185.9	229.3	235.8	4.6	9.8	14.4	17.4
102°	708.1	215.3	226.0	4.6	9.9	14.5	17.4
102.5°	243.3	201.3	214.9	4.6	9.9	14.6	17.5
103°	230.5	187.1	185.7	4.6	10.0	14.7	17.5
103.5°	229.3	190.6	111.8	4.5	10.1	14.8	17.5
104°	239.0	185.9	83.7	4.5	10.2	14.8	17.6
104.5°	249.1	173.4	70.8	4.6	10.2	14.9	17.6
105°	254.4	156.4	59.5	4.6	10.3	15.0	17.7
105.5°	249.0	140.3	50.6	4.6	10.4	15.1	17.7
106°	222.8	122.3	42.4	4.6	10.5	15.2	17.8
106.5°	197.6	109.2	35.5	4.6	10.5	15.3	17.8
107°	179.7	100.1	29.0	4.6	10.6	15.5	17.9
107.5°	161.4	93.9	23.5	4.6	10.7	15.6	17.9
108°	146.1	90.4	19.2	4.6	10.8	15.7	18.0
108.5°	137.2	88.1	15.6	4.6	10.9	15.8	18.0
109°	133.5	87.5	12.9	4.7	11.0	15.8	18.1
109.5°	133.6	90.1	11.5	4.7	11.0	15.9	18.1
110°	135.2	94.1	10.4	4.8	11.1	16.0	18.1
110.5°	135.4	97.3	9.4	4.9	11.2	16.0	18.1
111°	134.0	98.9	8.3	4.9	11.2	16.1	18.2
111.5°	132.5	98.2	7.3	5.0	11.3	16.1	18.2
112°	129.8	95.4	6.5	5.1	11.4	16.2	18.2

REPORT NUMBER: P1197234

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	123.5	91.5	5.9	5.1	11.4	16.2	18.2
113°	117.6	81.9	5.4	5.2	11.5	16.3	18.3
113.5°	109.7	63.7	4.9	5.3	11.6	16.4	18.3
114°	98.7	42.4	4.5	5.3	11.6	16.4	18.3
114.5°	85.1	23.5	4.2	5.4	11.7	16.5	18.3
115°	70.1	14.8	3.9	5.5	11.8	16.5	18.4
115.5°	56.6	11.5	3.7	5.6	11.8	16.6	18.4
116°	42.9	8.9	3.5	5.6	11.9	16.6	18.4
116.5°	26.9	6.5	3.3	5.7	11.9	16.7	18.4
117°	16.2	4.6	3.0	5.8	12.0	16.7	18.4
117.5°	11.6	3.4	2.8	5.8	12.0	16.7	18.4
118°	8.6	2.6	2.7	5.9	12.1	16.7	18.4
118.5°	6.3	2.2	2.5	6.0	12.2	16.8	18.4
119°	4.5	1.8	2.4	6.1	12.2	16.8	18.4
119.5°	3.5	1.7	2.3	6.1	12.3	16.8	18.4
120°	2.8	1.6	2.2	6.2	12.3	16.8	18.4
120.5°	2.3	1.5	2.1	6.3	12.3	16.9	18.4
121°	1.9	1.5	2.1	6.4	12.4	16.9	18.4
121.5°	1.7	1.4	2.1	6.4	12.4	17.0	18.4
122°	1.7	1.4	2.1	6.5	12.5	17.0	18.5
122.5°	1.6	1.4	2.1	6.6	12.5	17.0	18.5
123°	1.6	1.3	2.2	6.7	12.6	17.0	18.5
123.5°	1.6	1.3	2.2	6.7	12.6	17.0	18.5
124°	1.5	1.3	2.3	6.8	12.6	17.1	18.5
124.5°	1.5	1.3	2.3	6.9	12.7	17.1	18.5
125°	1.5	1.3	2.4	7.0	12.7	17.1	18.5
125.5°	1.5	1.3	2.5	7.0	12.8	17.1	18.5
126°	1.5	1.3	2.5	7.1	12.8	17.1	18.5
126.5°	1.4	1.3	2.6	7.2	12.9	17.1	18.5
127°	1.4	1.3	2.6	7.3	12.9	17.1	18.5
127.5°	1.4	1.2	2.7	7.3	12.9	17.1	18.5
128°	1.4	1.2	2.8	7.4	13.0	17.1	18.5
128.5°	1.3	1.2	2.9	7.5	13.0	17.1	18.4
129°	1.3	1.2	2.9	7.6	13.1	17.1	18.4
129.5°	1.2	1.2	3.0	7.6	13.1	17.1	18.4
130°	1.2	1.2	3.1	7.7	13.1	17.1	18.4
130.5°	1.1	1.2	3.2	7.8	13.2	17.1	18.3
131°	1.1	1.2	3.3	7.9	13.2	17.1	18.3
131.5°	1.1	1.2	3.4	7.9	13.3	17.1	18.3
132°	1.1	1.2	3.4	8.0	13.3	17.1	18.2
132.5°	1.1	1.2	3.5	8.1	13.3	17.1	18.2
133°	1.1	1.2	3.6	8.1	13.4	17.1	18.2
133.5°	1.1	1.2	3.7	8.2	13.4	17.1	18.2
134°	1.1	1.3	3.8	8.3	13.4	17.1	18.1
134.5°	1.1	1.3	3.9	8.4	13.5	17.1	18.1

REPORT NUMBER: P1197234

CATALOG NUMBER: AWPS150S-BZ-BZ-MID-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	1.1	1.4	4.0	8.4	13.5	17.1	18.1
135.5°	1.1	1.4	4.1	8.5	13.6	17.1	18.0
136°	1.2	1.4	4.1	8.6	13.6	17.1	18.0
136.5°	1.2	1.5	4.2	8.6	13.6	17.1	18.0
137°	1.2	1.5	4.3	8.7	13.6	17.1	18.0
137.5°	1.2	1.6	4.4	8.8	13.7	17.1	18.0
138°	1.3	1.6	4.5	8.9	13.7	17.1	18.0
138.5°	1.3	1.7	4.6	8.9	13.7	17.1	17.9
139°	1.3	1.7	4.7	9.0	13.8	17.1	17.9
139.5°	1.4	1.8	4.8	9.1	13.8	17.1	17.9
140°	1.4	1.8	4.9	9.1	13.8	17.1	17.9
140.5°	1.5	1.9	5.0	9.2	13.8	17.0	17.8
141°	1.5	2.0	5.1	9.3	13.9	17.0	17.8
141.5°	1.5	2.0	5.2	9.3	13.9	17.0	17.7
142°	1.6	2.1	5.3	9.4	13.9	17.0	17.6
142.5°	1.6	2.2	5.4	9.5	13.9	17.0	17.6
143°	1.7	2.2	5.4	9.5	14.0	17.0	17.5
143.5°	1.7	2.3	5.5	9.6	14.0	16.9	17.4
144°	1.7	2.4	5.6	9.7	14.0	16.9	17.3
144.5°	1.8	2.4	5.7	9.7	14.0	16.9	17.2
145°	1.8	2.5	5.8	9.8	14.0	16.8	17.1
145.5°	1.9	2.6	5.9	9.9	14.0	16.8	17.1
146°	1.9	2.7	6.0	9.9	14.0	16.8	17.0
146.5°	1.9	2.8	6.1	10.0	14.0	16.7	16.9
147°	2.0	2.9	6.2	10.0	14.0	16.7	16.8
147.5°	2.0	2.9	6.3	10.1	14.1	16.6	16.7
148°	2.1	3.0	6.4	10.2	14.1	16.6	16.6
148.5°	2.1	3.1	6.5	10.2	14.1	16.5	16.5
149°	2.1	3.2	6.5	10.3	14.1	16.5	16.4
149.5°	2.2	3.3	6.6	10.3	14.1	16.5	16.4
150°	2.2	3.4	6.7	10.4	14.1	16.5	16.3
150.5°	2.3	3.5	6.8	10.4	14.1	16.4	16.2
151°	2.3	3.6	6.9	10.5	14.1	16.4	16.2
151.5°	2.4	3.7	7.0	10.5	14.1	16.4	16.1
152°	2.5	3.8	7.1	10.6	14.2	16.3	16.0
152.5°	2.5	3.9	7.2	10.7	14.2	16.3	15.9
153°	2.6	4.0	7.3	10.7	14.2	16.3	15.8
153.5°	2.7	4.1	7.4	10.8	14.2	16.3	15.7
154°	2.8	4.2	7.5	10.9	14.2	16.3	15.6
154.5°	2.9	4.3	7.6	10.9	14.2	16.3	15.5
155°	3.0	4.4	7.7	11.0	14.2	16.2	15.4
155.5°	3.1	4.5	7.8	11.0	14.2	16.2	15.2
156°	3.2	4.6	7.9	11.1	14.2	16.1	15.1
156.5°	3.3	4.8	8.0	11.1	14.2	16.1	15.0
157°	3.4	4.9	8.1	11.2	14.2	16.0	14.9

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CATALOG NUMBER: AWPS150S-BZ-BZ-MID-3000K-POSITION 30

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	3.5	5.0	8.2	11.2	14.2	16.0	14.8
158°	3.6	5.1	8.3	11.3	14.2	15.9	14.7
158.5°	3.7	5.3	8.4	11.3	14.2	15.8	14.6
159°	3.9	5.4	8.5	11.4	14.2	15.8	14.5
159.5°	4.0	5.5	8.5	11.4	14.2	15.7	14.4
160°	4.1	5.7	8.6	11.5	14.2	15.7	14.3
160.5°	4.3	5.8	8.7	11.5	14.2	15.6	14.1
161°	4.4	5.9	8.8	11.6	14.2	15.5	14.0
161.5°	4.5	6.1	8.9	11.6	14.2	15.5	13.9
162°	4.6	6.2	9.0	11.7	14.1	15.4	13.8
162.5°	4.7	6.4	9.1	11.7	14.1	15.3	13.6
163°	4.8	6.5	9.2	11.8	14.1	15.3	13.5
163.5°	4.9	6.6	9.3	11.8	14.1	15.2	13.3
164°	5.0	6.7	9.4	11.8	14.1	15.1	13.1
164.5°	5.1	6.9	9.5	11.9	14.1	15.0	13.0
165°	5.2	7.0	9.5	11.9	14.1	15.0	12.8
165.5°	5.3	7.1	9.6	12.0	14.1	14.9	12.7
166°	5.4	7.3	9.7	12.0	14.1	14.9	12.6
166.5°	5.5	7.4	9.8	12.1	14.1	14.8	12.5
167°	5.6	7.5	9.9	12.1	14.0	14.7	12.4
167.5°	5.7	7.6	10.0	12.1	14.0	14.7	12.2
168°	5.8	7.7	10.1	12.2	14.0	14.6	12.1
168.5°	5.9	7.8	10.2	12.2	14.0	14.5	12.0
169°	6.0	8.0	10.2	12.3	14.0	14.5	11.8
169.5°	6.2	8.1	10.3	12.3	14.0	14.4	11.7
170°	6.3	8.2	10.4	12.4	13.9	14.3	11.5
170.5°	6.4	8.3	10.5	12.4	13.9	14.3	11.4
171°	6.5	8.4	10.6	12.4	13.8	14.1	11.3
171.5°	6.6	8.5	10.6	12.5	13.8	14.1	11.1
172°	6.7	8.6	10.7	12.5	13.7	13.9	10.9
172.5°	6.8	8.7	10.8	12.5	13.7	13.8	10.7
173°	6.9	8.8	10.9	12.5	13.7	13.7	10.6
173.5°	7.0	9.0	11.0	12.5	13.6	13.7	10.4
174°	7.1	9.1	11.0	12.6	13.6	13.6	10.3
174.5°	7.2	9.2	11.1	12.6	13.6	13.5	10.1
175°	7.3	9.3	11.2	12.6	13.5	13.4	9.9
175.5°	7.4	9.4	11.3	12.6	13.4	13.3	9.8
176°	7.5	9.5	11.4	12.7	13.4	13.2	9.7
176.5°	7.6	9.6	11.4	12.7	13.3	13.1	9.5
177°	7.7	9.7	11.5	12.7	13.3	13.0	9.3
177.5°	7.8	9.8	11.6	12.7	13.3	13.0	9.2
178°	8.0	9.9	11.6	12.7	13.2	12.9	9.1
178.5°	8.1	10.0	11.7	12.7	13.2	12.8	8.9
179°	8.2	10.1	11.8	12.8	13.1	12.7	8.8
179.5°	8.4	10.3	11.9	12.8	13.1	12.6	8.7



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	8.5	8.5	8.5	8.5	8.5	8.5	8.5

(END OF REPORT)