

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: P1197135

Luminaire Tested: AWP150S-BZ-BZ-MID-3000K-POSITION 45

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197135
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: AWP150S-BZ-BZ-MID-3000K-POSITION 45
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 3000K
Ballast/Driver: -

Summary

Lumens per Lamp: 18720 (1 lamp)
Luminaire Lumens: 16328 lumens
Efficiency: 87.2%
Efficacy: 130.5 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): 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

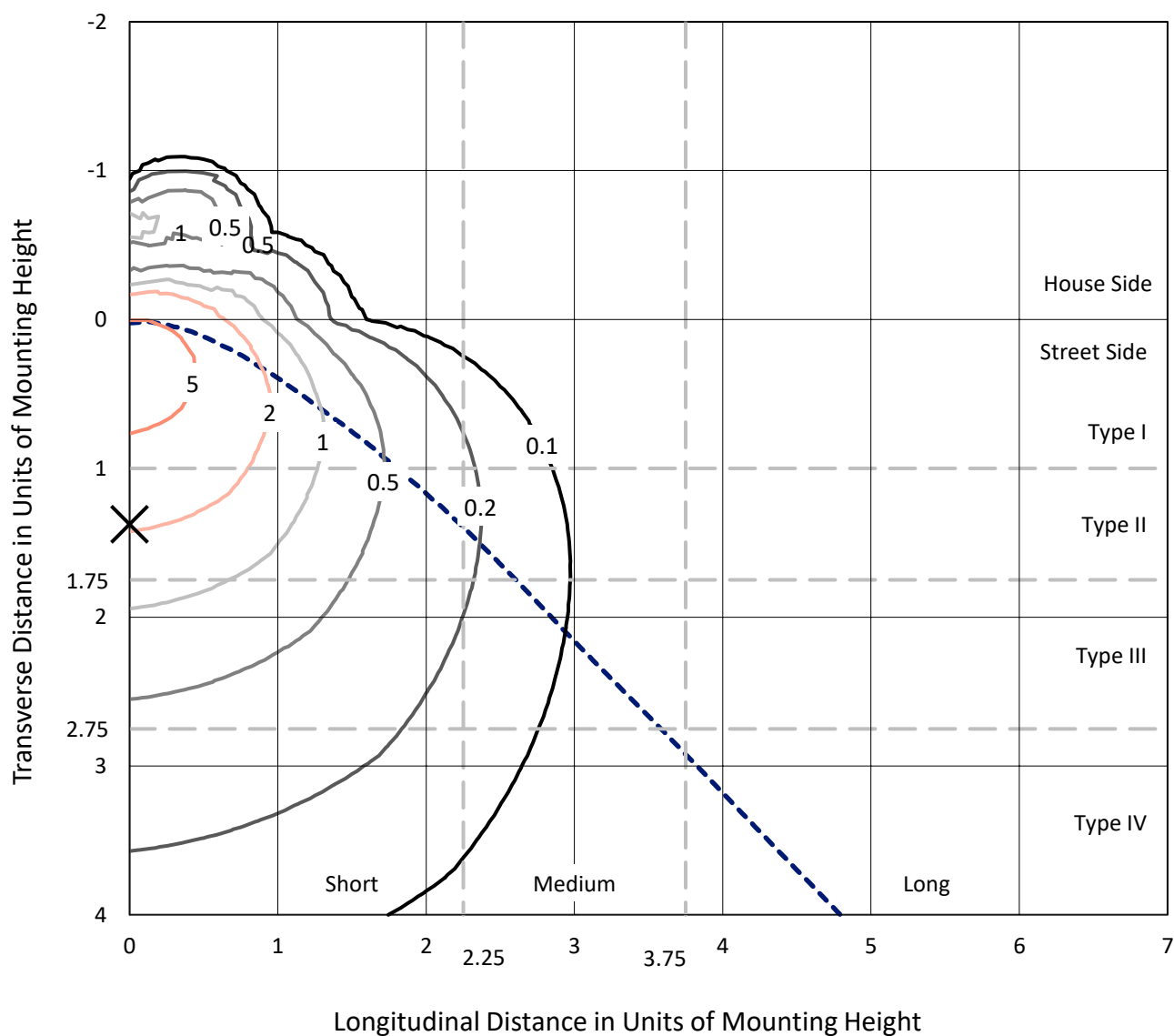
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

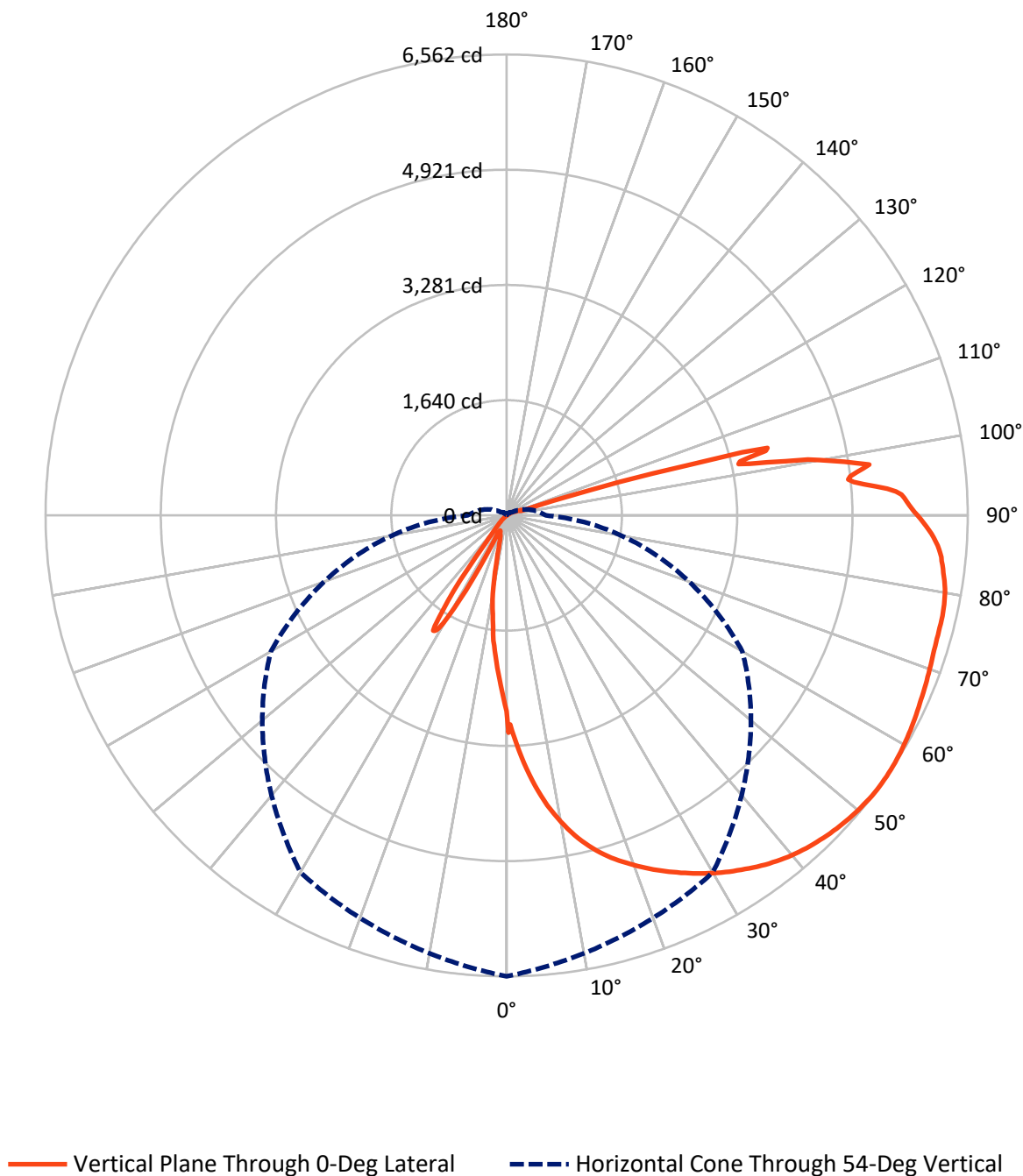


Based on 25 foot mounting height. Maximum calculated value = 7.2 fc
Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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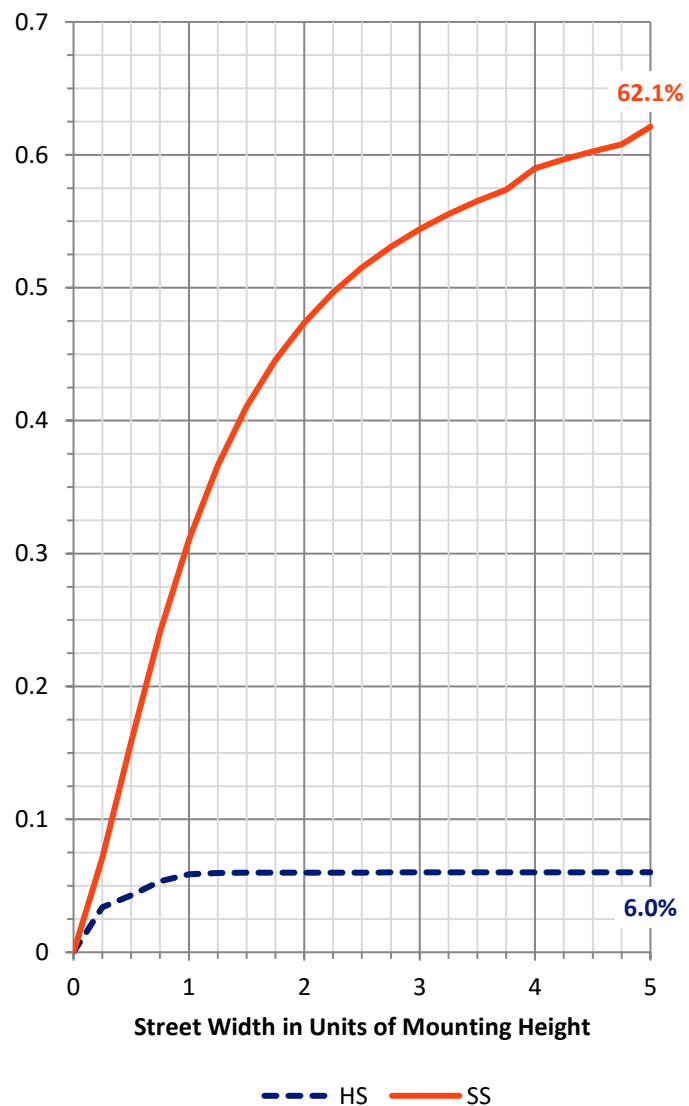
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1135.1	41.2	1176.3
	% Lamp	6.1	0.2	6.3
Street Side	Lumens	13039.9	2111.8	15151.7
	% Lamp	69.7	11.3	80.9
Total	Lumens	14175.0	2153.0	16328.0
	% Lamp	75.7	11.5	87.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	291.8	1.8	1.6
10°-20°	811.1	5.0	4.3
20°-30°	1259.8	7.7	6.7
30°-40°	1753.2	10.7	9.4
40°-50°	2018.3	12.4	10.8
50°-60°	2041.7	12.5	10.9
60°-70°	2089.7	12.8	11.2
70°-80°	2038.5	12.5	10.9
80°-90°	1871.0	11.5	10.0
90°-100°	1561.1	9.6	8.3
100°-110°	531.6	3.3	2.8
110°-120°	31.3	0.2	0.2
120°-130°	8.1	0.0	0.0
130°-140°	6.8	0.0	0.0
140°-150°	5.8	0.0	0.0
150°-160°	4.5	0.0	0.0
160°-170°	2.9	0.0	0.0
170°-180°	1.0	0.0	0.0
0°-90°	14175.0	86.8	75.7
0°-180°	16328.0	100.0	87.2

Coefficient of Utilization



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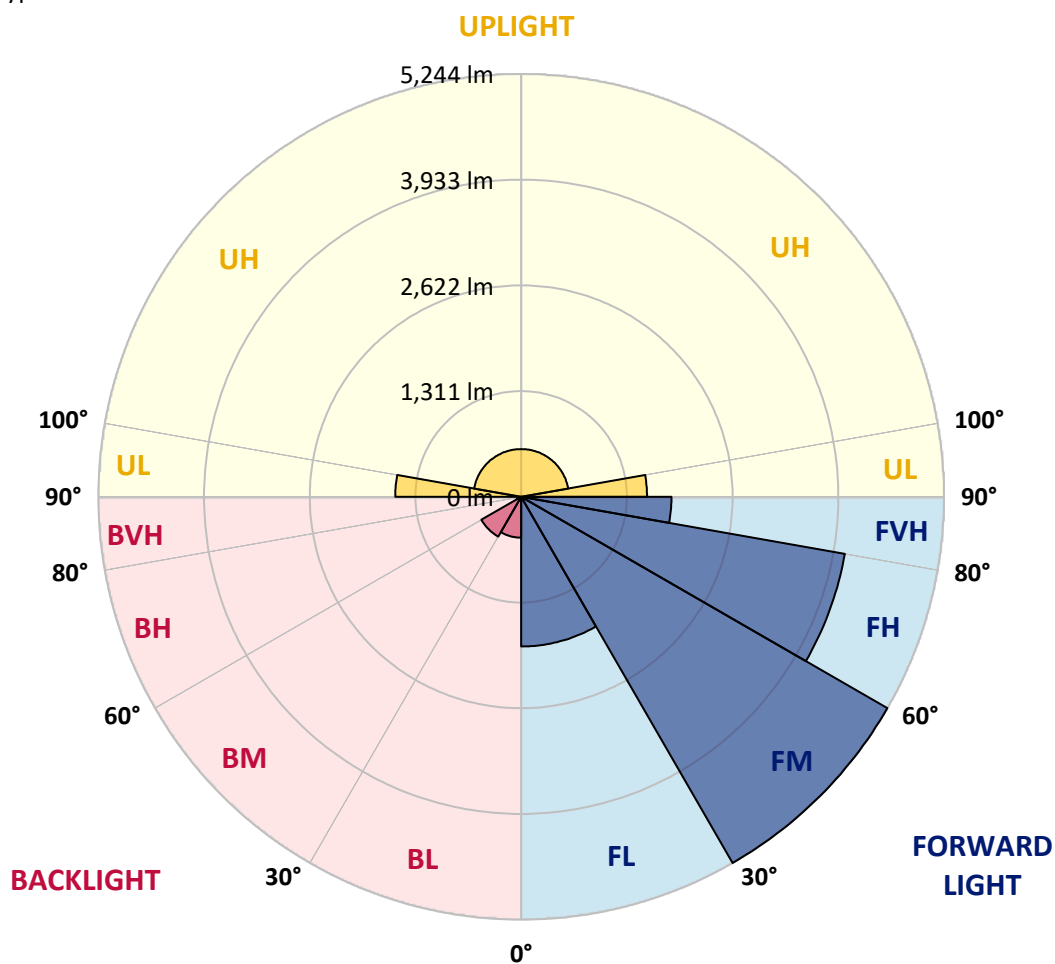
CATALOG NUMBER: AWP150S-BZ-BZ-MID-3000K-POSITION 45

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	1856.2	9.9			
FM	(30°-60°)	5244.0	28.0			
FH	(60°-80°)	4076.0	21.8			G2/5000
FVH	(80°-90°)	1863.8	10.0			G5
BL	(0°-30°)	506.5	2.7	B2/1000		
BM	(30°-60°)	569.2	3.0	B1/1000		
BH	(60°-80°)	52.1	0.3	B0/110		G0/110
BVH	(80°-90°)	7.2	0.0			G0/10
UL	(90°-100°)	1561.1	8.3		U5	
UH	(100°-180°)	591.9	3.2		U4/1000	
Trapped Light		2392.0	12.8			

BUG Rating: B2-U5-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	3093.3	3093.3	3093.3	3093.3	3093.3	3093.3	3093.3
0.5°	2976.4	3099.9	3194.7	3214.6	3151.9	3024.1	2784.7
1°	3072.1	3182.4	3240.5	3214.1	3105.4	2939.7	2691.3
1.5°	3167.5	3261.6	3285.7	3211.6	3058.4	2854.6	2597.9
2°	3259.0	3339.3	3331.1	3210.4	3007.8	2777.1	2505.2
2.5°	3349.7	3418.2	3375.9	3209.3	2959.0	2693.1	2416.5
3°	3441.5	3493.9	3417.4	3206.1	2909.1	2611.1	2332.7
3.5°	3531.5	3568.6	3458.6	3201.1	2858.0	2531.2	2252.7
4°	3614.5	3645.3	3501.6	3197.3	2807.4	2456.2	2172.8
4.5°	3702.3	3717.8	3541.8	3193.1	2757.2	2378.4	2092.9
5°	3783.1	3786.4	3579.3	3187.5	2705.6	2293.3	2013.0
5.5°	3866.5	3855.7	3619.1	3181.9	2655.8	2224.8	1933.2
6°	3945.9	3923.4	3656.9	3175.3	2604.0	2156.6	1860.0
6.5°	4020.6	3986.2	3694.2	3167.2	2554.1	2088.4	1793.4
7°	4092.9	4050.7	3730.2	3160.2	2502.4	2019.9	1704.0
7.5°	4165.7	4110.3	3766.2	3152.5	2452.8	1951.8	1593.3
8°	4234.8	4168.1	3798.5	3143.4	2402.0	1886.8	1497.5
8.5°	4299.8	4224.9	3831.8	3134.0	2352.5	1825.2	1413.7
9°	4363.7	4279.9	3863.0	3124.5	2302.3	1765.1	1342.3
9.5°	4424.0	4333.2	3894.6	3113.9	2250.3	1705.7	1276.9
10°	4481.7	4384.8	3923.3	3103.2	2200.4	1626.0	1208.0
10.5°	4543.1	4433.8	3953.1	3091.5	2150.0	1532.0	1130.1
11°	4599.8	4482.3	3981.3	3079.4	2099.3	1447.0	1037.2
11.5°	4654.4	4530.1	4008.1	3067.1	2051.5	1372.8	927.2
12°	4706.3	4576.2	4033.4	3053.9	2003.8	1309.6	817.8
12.5°	4756.4	4618.4	4059.3	3039.9	1955.4	1249.5	718.1
13°	4803.3	4661.2	4084.1	3024.6	1908.3	1188.4	634.3
13.5°	4849.9	4701.1	4107.3	3009.4	1864.2	1123.3	563.6
14°	4895.0	4740.0	4129.1	2993.1	1817.6	1046.9	506.5
14.5°	4937.6	4777.6	4150.7	2976.5	1772.4	956.0	456.2
15°	4978.3	4812.9	4170.9	2959.2	1728.8	860.2	414.3
15.5°	5020.0	4847.8	4191.5	2940.9	1684.5	765.3	379.0
16°	5059.0	4881.9	4210.1	2922.7	1641.4	678.2	351.8
16.5°	5094.2	4913.7	4229.0	2905.6	1599.4	601.1	330.2
17°	5131.5	4944.6	4246.1	2886.4	1558.6	538.5	315.0
17.5°	5167.3	4974.1	4262.2	2866.8	1512.1	487.4	303.7
18°	5198.2	5002.2	4277.8	2848.1	1452.7	441.5	295.9
18.5°	5231.6	5029.0	4291.7	2827.6	1390.7	403.8	291.3
19°	5265.2	5051.4	4305.2	2804.3	1333.9	372.0	288.6
19.5°	5298.2	5073.6	4318.2	2782.3	1280.8	345.0	286.4
20°	5329.3	5095.9	4330.6	2760.1	1229.0	324.0	281.8
20.5°	5362.0	5118.0	4341.6	2738.5	1182.7	307.5	272.8
21°	5393.4	5140.2	4352.3	2715.7	1139.4	296.3	260.7
21.5°	5424.2	5162.7	4362.4	2693.4	1096.1	288.6	249.3
22°	5455.4	5181.7	4371.7	2669.8	1049.8	284.7	245.0

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	5485.7	5204.0	4380.3	2645.1	1001.6	284.0	240.8
23°	5516.4	5225.7	4388.7	2621.9	949.4	286.2	236.7
23.5°	5546.5	5246.2	4395.6	2596.6	892.6	290.0	232.5
24°	5575.4	5267.5	4402.2	2571.4	833.8	295.7	240.5
24.5°	5602.7	5288.2	4407.2	2545.7	769.5	302.6	251.1
25°	5631.6	5308.5	4412.3	2520.0	707.0	310.9	261.5
25.5°	5659.8	5329.5	4416.5	2493.1	649.9	317.0	267.2
26°	5687.7	5351.3	4420.5	2466.5	599.3	318.5	268.2
26.5°	5716.0	5369.4	4423.4	2439.6	556.3	316.7	284.9
27°	5745.4	5388.3	4425.6	2410.4	525.0	313.8	468.0
27.5°	5772.3	5406.9	4426.2	2383.6	504.2	305.6	654.6
28°	5800.3	5425.5	4427.6	2355.6	490.3	295.4	841.3
28.5°	5826.9	5444.9	4428.3	2323.3	476.5	287.9	1027.9
29°	5853.2	5462.5	4427.4	2295.5	462.7	282.4	1214.6
29.5°	5878.9	5481.4	4426.5	2268.6	449.0	279.0	1357.5
30°	5905.0	5498.9	4424.2	2237.8	435.4	277.4	1513.0
30.5°	5932.1	5517.1	4421.9	2205.6	426.4	277.8	1664.4
31°	5956.0	5533.2	4418.6	2177.2	419.9	275.6	1781.0
31.5°	5980.2	5550.5	4415.4	2148.0	414.1	273.2	1869.2
32°	6003.5	5566.4	4411.2	2115.7	403.2	270.1	1913.8
32.5°	6027.1	5580.5	4406.5	2087.2	388.2	266.7	1939.6
33°	6051.1	5596.7	4401.7	2057.6	373.5	262.9	1944.0
33.5°	6073.3	5612.8	4397.1	2026.1	363.3	266.5	1878.1
34°	6095.9	5627.9	4391.0	1996.0	355.9	275.5	1736.4
34.5°	6119.5	5643.2	4384.6	1968.5	349.8	295.1	1610.7
35°	6141.7	5658.1	4378.3	1939.9	346.8	457.7	1477.0
35.5°	6163.6	5672.2	4372.0	1911.7	344.2	626.2	1315.1
36°	6184.9	5685.1	4365.2	1887.7	341.9	794.5	1132.2
36.5°	6204.9	5699.8	4358.2	1865.0	339.8	962.5	939.7
37°	6224.7	5714.0	4350.7	1842.3	337.8	1130.5	737.4
37.5°	6244.4	5726.3	4343.3	1820.8	335.0	1264.6	581.1
38°	6263.1	5739.2	4334.9	1799.2	331.3	1356.4	475.5
38.5°	6280.9	5753.3	4326.3	1771.9	327.6	1411.0	406.7
39°	6298.4	5763.7	4317.0	1738.7	323.7	1436.1	355.2
39.5°	6315.2	5774.1	4307.2	1697.7	319.9	1447.3	312.3
40°	6331.4	5786.1	4296.1	1652.6	316.4	1462.0	277.9
40.5°	6345.7	5796.0	4285.8	1607.8	312.6	1453.4	257.0
41°	6360.3	5805.8	4274.6	1566.3	308.0	1405.9	236.6
41.5°	6374.9	5815.9	4262.9	1523.9	302.5	1318.5	216.2
42°	6386.4	5824.6	4251.9	1484.2	296.7	1234.3	195.9
42.5°	6399.7	5833.5	4241.0	1446.9	290.4	1149.3	175.6
43°	6411.6	5841.4	4229.5	1411.7	283.9	1070.9	160.0
43.5°	6422.4	5848.1	4217.3	1376.5	277.2	996.4	143.1
44°	6434.6	5854.7	4206.1	1341.1	270.5	927.9	125.6
44.5°	6445.2	5860.6	4192.6	1307.7	263.4	862.5	110.4

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	6455.9	5866.4	4179.8	1275.5	256.5	796.6	95.0
45.5°	6464.5	5871.2	4166.6	1245.4	249.6	723.4	78.8
46°	6474.7	5874.8	4153.2	1216.7	242.4	647.6	62.1
46.5°	6484.0	5879.1	4138.1	1188.6	235.1	575.6	48.2
47°	6492.4	5881.2	4122.9	1159.9	228.3	513.0	37.4
47.5°	6500.7	5883.3	4107.6	1131.9	221.5	458.5	30.7
48°	6508.7	5886.0	4091.4	1103.2	214.9	409.4	27.9
48.5°	6515.8	5886.7	4075.1	1073.0	202.7	364.1	25.8
49°	6522.3	5887.9	4058.3	1039.2	187.6	321.9	23.6
49.5°	6529.2	5888.4	4041.5	1002.4	177.0	283.5	21.2
50°	6535.3	5887.3	4024.7	963.4	168.4	244.4	18.9
50.5°	6540.9	5887.1	4006.6	918.1	158.1	204.9	16.8
51°	6546.1	5887.5	3988.1	869.6	150.5	165.5	15.1
51.5°	6550.8	5885.0	3969.7	816.0	144.1	126.0	13.0
52°	6554.5	5881.7	3950.9	759.2	135.2	86.5	10.8
52.5°	6556.8	5879.7	3931.7	704.0	119.6	55.0	9.7
53°	6559.7	5875.6	3912.9	649.8	106.3	23.0	8.8
53.5°	6560.5	5871.6	3893.4	598.7	98.0	16.9	8.0
54°	6561.9	5867.3	3873.1	556.7	93.0	16.0	7.4
54.5°	6561.0	5862.5	3853.1	523.5	89.4	15.7	6.9
55°	6560.9	5856.0	3832.7	495.6	86.3	15.4	6.5
55.5°	6560.1	5850.1	3810.8	472.1	83.6	15.0	6.3
56°	6558.3	5843.6	3788.9	453.6	81.0	14.6	6.2
56.5°	6555.2	5836.4	3766.3	438.3	78.3	14.0	6.1
57°	6553.3	5830.2	3742.8	426.8	74.6	13.3	6.0
57.5°	6548.6	5822.9	3719.3	417.9	71.5	12.0	5.9
58°	6544.8	5814.7	3696.0	411.6	68.4	11.2	5.8
58.5°	6541.0	5808.7	3672.5	407.1	65.3	10.5	5.7
59°	6536.7	5800.9	3649.0	404.1	61.7	10.0	5.6
59.5°	6531.4	5791.9	3625.5	401.7	57.4	9.4	5.6
60°	6526.5	5785.2	3602.1	398.7	52.9	8.8	5.6
60.5°	6520.9	5777.8	3576.5	395.2	49.8	8.4	5.6
61°	6514.6	5768.3	3551.1	392.1	47.3	7.9	5.7
61.5°	6508.5	5759.4	3526.1	388.8	44.9	7.5	5.8
62°	6501.6	5751.3	3499.0	385.3	42.5	7.1	5.9
62.5°	6495.7	5741.6	3471.0	382.0	39.8	6.8	6.1
63°	6489.0	5731.9	3446.3	377.2	36.8	6.5	6.2
63.5°	6482.4	5722.9	3419.2	371.3	33.3	6.2	6.4
64°	6476.0	5711.2	3393.0	364.7	29.5	5.9	6.5
64.5°	6469.0	5701.2	3368.0	357.0	25.5	5.7	6.7
65°	6461.4	5689.6	3344.1	348.7	21.5	5.5	6.8
65.5°	6455.7	5677.4	3320.0	340.3	17.8	5.3	7.0
66°	6448.6	5665.6	3296.5	333.0	14.4	5.2	7.2
66.5°	6443.8	5653.2	3273.4	324.9	11.0	5.1	7.4
67°	6437.2	5638.6	3249.9	316.9	8.3	5.0	7.5

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	6432.4	5623.7	3226.1	307.8	6.9	5.0	7.7
68°	6426.1	5610.1	3202.1	298.4	6.6	5.0	7.8
68.5°	6419.0	5594.3	3176.5	289.9	6.5	5.0	8.0
69°	6414.0	5579.0	3152.2	282.6	6.4	5.0	8.2
69.5°	6406.9	5564.3	3125.0	274.9	6.3	5.1	8.4
70°	6400.6	5548.5	3095.3	265.9	6.2	5.2	8.7
70.5°	6394.9	5533.9	3066.4	256.5	5.7	5.3	8.9
71°	6390.9	5518.9	3036.5	247.5	5.5	5.4	9.1
71.5°	6385.1	5504.4	3005.1	238.9	5.4	5.5	9.3
72°	6379.7	5492.0	2973.1	230.2	5.4	5.7	9.5
72.5°	6376.4	5479.4	2941.2	221.5	5.4	5.9	9.7
73°	6374.0	5466.8	2906.3	212.8	5.4	6.1	9.9
73.5°	6371.4	5454.8	2871.5	204.2	5.4	6.3	10.2
74°	6369.0	5444.8	2834.4	194.9	5.4	6.5	10.3
74.5°	6367.3	5434.8	2796.3	185.5	5.4	6.6	10.6
75°	6367.9	5426.1	2758.8	175.4	5.5	6.8	10.8
75.5°	6366.3	5419.8	2722.7	165.0	5.5	7.0	11.0
76°	6365.4	5414.0	2685.7	154.5	5.5	7.2	11.2
76.5°	6364.5	5408.5	2650.2	144.4	5.6	7.3	11.4
77°	6362.1	5403.3	2614.6	134.0	5.6	7.5	11.6
77.5°	6359.7	5399.0	2576.8	123.7	5.6	7.7	11.8
78°	6356.3	5393.7	2532.9	113.7	5.7	7.9	12.0
78.5°	6349.4	5389.1	2490.5	104.3	5.7	8.0	12.1
79°	6342.6	5382.8	2443.9	95.4	5.8	8.2	12.3
79.5°	6335.4	5373.2	2398.9	86.9	5.9	8.4	12.5
80°	6325.1	5363.9	2352.4	78.1	5.9	8.6	12.7
80.5°	6313.7	5354.7	2309.0	70.1	6.0	8.7	12.9
81°	6299.2	5342.4	2263.1	62.5	6.1	8.9	13.1
81.5°	6284.9	5329.9	2221.3	55.8	6.2	9.1	13.3
82°	6270.7	5318.0	2176.4	49.9	6.2	9.2	13.5
82.5°	6257.4	5303.6	2127.3	44.9	6.3	9.4	13.6
83°	6241.8	5287.0	2076.1	40.4	6.4	9.6	13.8
83.5°	6227.1	5268.8	2026.6	36.2	6.5	9.8	14.0
84°	6214.2	5253.2	1978.9	32.4	6.6	10.0	14.1
84.5°	6194.7	5240.9	1934.3	28.9	6.6	10.1	14.3
85°	6172.4	5231.3	1892.5	25.8	6.8	10.3	14.5
85.5°	6149.0	5219.6	1851.7	23.0	6.9	10.5	14.6
86°	6119.3	5210.0	1814.6	20.5	7.0	10.6	14.8
86.5°	6086.2	5201.7	1777.5	18.2	7.1	10.8	15.0
87°	6052.9	5195.0	1746.2	15.9	7.2	11.0	15.1
87.5°	6014.9	5188.3	1717.4	14.0	7.4	11.1	15.3
88°	5974.0	5182.7	1688.9	12.0	7.5	11.3	15.4
88.5°	5934.2	5176.8	1660.7	10.3	7.6	11.4	15.5
89°	5891.0	5168.6	1637.2	8.9	7.7	11.6	15.6
89.5°	5846.5	5160.8	1623.3	7.7	7.8	11.7	15.7

REPORT NUMBER: P1197135

CATALOG NUMBER: AWP150S-BZ-BZ-MID-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	5804.4	5158.9	1617.0	6.6	7.8	11.9	15.8
90.5°	5766.7	5168.5	1621.9	5.9	7.9	12.0	15.9
91°	5728.9	5194.0	1641.6	5.8	8.0	12.1	16.0
91.5°	5695.3	5236.9	1674.1	5.7	8.1	12.3	16.1
92°	5666.7	5286.5	1723.4	5.6	8.2	12.4	16.3
92.5°	5629.9	5314.2	1787.9	5.5	8.3	12.5	16.4
93°	5550.2	5318.0	1845.2	5.5	8.3	12.6	16.5
93.5°	5428.8	5274.9	1878.1	5.4	8.4	12.8	16.6
94°	5274.9	5198.7	1852.0	5.3	8.5	12.9	16.7
94.5°	5101.5	5084.9	1775.2	5.3	8.7	13.0	16.9
95°	4961.1	4958.4	1657.7	5.2	8.8	13.2	17.0
95.5°	4887.6	4831.6	1514.6	5.2	8.9	13.3	17.0
96°	4920.0	4674.7	1386.9	5.1	9.0	13.5	17.1
96.5°	5016.5	4439.4	1264.2	5.1	9.1	13.6	17.2
97°	5119.0	4150.4	1128.7	5.0	9.2	13.8	17.3
97.5°	5210.3	3865.7	974.1	5.0	9.3	13.9	17.4
98°	5039.3	3575.0	820.3	4.9	9.3	14.1	17.4
98.5°	4869.4	3350.4	695.0	4.9	9.4	14.2	17.5
99°	4701.0	3215.2	609.0	4.9	9.5	14.3	17.6
99.5°	4533.0	3105.9	523.0	4.8	9.6	14.4	17.6
100°	4358.7	3086.4	437.0	4.8	9.7	14.5	17.7
100.5°	4050.1	3235.0	351.0	4.7	9.7	14.6	17.7
101°	3781.4	3504.2	267.3	4.6	9.8	14.6	17.8
101.5°	3539.9	3730.0	243.0	4.6	9.9	14.7	17.8
102°	3379.9	3694.1	249.2	4.6	10.0	14.8	17.9
102.5°	3406.1	3297.4	267.6	4.6	10.0	14.9	17.9
103°	3575.7	2563.6	260.1	4.6	10.1	15.1	18.0
103.5°	3800.6	2289.1	252.5	4.6	10.2	15.2	18.0
104°	3834.1	2024.9	243.3	4.6	10.3	15.3	18.1
104.5°	3473.6	1760.5	233.3	4.6	10.4	15.4	18.1
105°	2647.8	1495.7	191.4	4.6	10.4	15.5	18.1
105.5°	2159.8	1230.2	116.9	4.6	10.5	15.6	18.2
106°	1671.8	965.6	91.2	4.6	10.6	15.7	18.2
106.5°	1184.0	701.3	78.8	4.6	10.7	15.8	18.2
107°	696.0	436.9	66.4	4.6	10.7	15.8	18.3
107.5°	214.7	172.6	56.5	4.6	10.8	15.9	18.3
108°	205.6	169.6	47.8	4.6	10.9	16.0	18.3
108.5°	204.7	163.8	39.8	4.6	10.9	16.0	18.3
109°	211.8	149.5	32.4	4.7	11.0	16.1	18.4
109.5°	218.7	134.1	26.4	4.7	11.1	16.1	18.4
110°	224.7	119.6	21.5	4.8	11.1	16.2	18.4
110.5°	217.8	104.7	17.6	4.8	11.2	16.2	18.4
111°	192.2	94.0	14.7	4.9	11.2	16.3	18.5
111.5°	171.0	87.3	12.1	4.9	11.3	16.3	18.5
112°	159.7	84.0	10.3	5.0	11.3	16.4	18.5

REPORT NUMBER: P1197135

CATALOG NUMBER: AWP150S-BZ-BZ-MID-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	148.0	83.1	9.2	5.1	11.4	16.4	18.5
113°	134.7	83.4	8.2	5.1	11.5	16.5	18.5
113.5°	128.2	86.0	7.2	5.2	11.5	16.5	18.5
114°	126.2	90.3	6.4	5.3	11.6	16.5	18.5
114.5°	126.7	94.2	5.7	5.3	11.6	16.6	18.6
115°	126.9	96.7	5.3	5.4	11.7	16.6	18.6
115.5°	125.2	96.9	4.9	5.5	11.7	16.6	18.6
116°	124.9	93.2	4.6	5.5	11.8	16.7	18.6
116.5°	124.6	80.8	4.3	5.6	11.8	16.7	18.6
117°	123.8	65.8	4.0	5.6	11.9	16.7	18.6
117.5°	120.8	45.7	3.7	5.7	11.9	16.7	18.6
118°	115.3	26.2	3.5	5.8	12.0	16.8	18.6
118.5°	106.5	16.9	3.3	5.8	12.0	16.8	18.6
119°	94.5	13.9	3.0	5.9	12.1	16.8	18.6
119.5°	78.9	11.6	2.8	6.0	12.1	16.9	18.6
120°	57.6	9.3	2.7	6.0	12.2	16.9	18.6
120.5°	35.4	7.1	2.6	6.1	12.2	16.9	18.6
121°	20.2	5.1	2.5	6.2	12.3	16.9	18.6
121.5°	14.1	3.7	2.4	6.3	12.3	16.9	18.6
122°	11.1	2.8	2.3	6.3	12.3	17.0	18.6
122.5°	8.4	2.2	2.2	6.4	12.4	17.0	18.6
123°	6.3	1.8	2.1	6.5	12.4	17.0	18.6
123.5°	4.6	1.6	2.1	6.5	12.5	17.0	18.6
124°	3.5	1.5	2.1	6.6	12.5	17.0	18.6
124.5°	2.6	1.4	2.1	6.6	12.5	17.0	18.5
125°	2.0	1.4	2.1	6.7	12.6	17.0	18.5
125.5°	1.7	1.4	2.2	6.8	12.6	17.0	18.5
126°	1.6	1.3	2.2	6.9	12.6	17.0	18.5
126.5°	1.5	1.3	2.2	6.9	12.7	17.0	18.4
127°	1.5	1.3	2.3	7.0	12.7	17.0	18.4
127.5°	1.5	1.3	2.4	7.1	12.7	17.0	18.4
128°	1.4	1.3	2.4	7.1	12.8	17.0	18.4
128.5°	1.4	1.3	2.5	7.2	12.8	17.0	18.4
129°	1.4	1.3	2.6	7.3	12.8	17.0	18.3
129.5°	1.4	1.3	2.6	7.3	12.9	17.0	18.3
130°	1.4	1.3	2.7	7.4	12.9	17.0	18.2
130.5°	1.4	1.2	2.8	7.5	12.9	17.0	18.2
131°	1.4	1.2	2.8	7.5	13.0	17.0	18.2
131.5°	1.4	1.2	2.9	7.6	13.0	17.0	18.1
132°	1.3	1.2	3.0	7.7	13.1	17.0	18.1
132.5°	1.3	1.2	3.1	7.7	13.1	17.0	18.0
133°	1.3	1.2	3.1	7.8	13.1	17.0	18.0
133.5°	1.2	1.2	3.2	7.9	13.1	17.0	18.0
134°	1.1	1.2	3.3	8.0	13.2	17.0	17.9
134.5°	1.1	1.2	3.4	8.0	13.2	17.0	17.9

REPORT NUMBER: P1197135

CATALOG NUMBER: AWP150S-BZ-BZ-MID-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	1.1	1.2	3.5	8.1	13.2	17.0	17.9
135.5°	1.1	1.2	3.6	8.1	13.3	17.0	17.8
136°	1.0	1.2	3.6	8.2	13.3	17.0	17.8
136.5°	1.0	1.2	3.7	8.3	13.3	16.9	17.8
137°	1.0	1.2	3.8	8.4	13.3	16.9	17.8
137.5°	1.0	1.2	3.9	8.4	13.3	16.9	17.8
138°	1.0	1.2	4.0	8.5	13.4	16.9	17.7
138.5°	1.0	1.3	4.1	8.5	13.4	16.8	17.7
139°	1.1	1.3	4.2	8.6	13.4	16.8	17.6
139.5°	1.1	1.4	4.3	8.7	13.4	16.8	17.6
140°	1.1	1.4	4.3	8.7	13.5	16.8	17.5
140.5°	1.1	1.4	4.4	8.8	13.5	16.8	17.4
141°	1.1	1.5	4.5	8.9	13.5	16.8	17.4
141.5°	1.1	1.5	4.6	8.9	13.5	16.7	17.3
142°	1.2	1.6	4.7	9.0	13.5	16.7	17.2
142.5°	1.2	1.6	4.8	9.0	13.5	16.7	17.1
143°	1.2	1.7	4.9	9.1	13.5	16.6	17.0
143.5°	1.3	1.7	5.0	9.2	13.5	16.6	16.9
144°	1.3	1.8	5.0	9.2	13.5	16.5	16.8
144.5°	1.3	1.9	5.1	9.3	13.5	16.5	16.7
145°	1.4	1.9	5.2	9.3	13.5	16.4	16.6
145.5°	1.4	2.0	5.3	9.4	13.5	16.4	16.5
146°	1.5	2.1	5.4	9.5	13.5	16.3	16.4
146.5°	1.5	2.1	5.5	9.5	13.5	16.3	16.3
147°	1.6	2.2	5.6	9.6	13.5	16.2	16.2
147.5°	1.6	2.3	5.6	9.6	13.6	16.2	16.1
148°	1.6	2.3	5.7	9.7	13.6	16.1	16.0
148.5°	1.7	2.4	5.8	9.7	13.6	16.1	15.9
149°	1.7	2.5	5.9	9.8	13.6	16.1	15.8
149.5°	1.8	2.5	6.0	9.9	13.6	16.0	15.7
150°	1.8	2.6	6.1	9.9	13.6	16.0	15.6
150.5°	1.8	2.7	6.2	10.0	13.6	16.0	15.5
151°	1.9	2.8	6.3	10.0	13.6	15.9	15.4
151.5°	1.9	2.9	6.3	10.1	13.6	15.9	15.3
152°	2.0	3.0	6.4	10.1	13.6	15.9	15.1
152.5°	2.0	3.1	6.5	10.2	13.6	15.8	15.0
153°	2.1	3.2	6.6	10.2	13.6	15.8	14.9
153.5°	2.1	3.3	6.7	10.3	13.6	15.8	14.8
154°	2.1	3.4	6.8	10.4	13.6	15.8	14.6
154.5°	2.2	3.5	6.9	10.4	13.6	15.7	14.5
155°	2.3	3.6	7.0	10.4	13.6	15.7	14.4
155.5°	2.3	3.6	7.1	10.5	13.6	15.6	14.2
156°	2.4	3.7	7.2	10.5	13.6	15.5	14.1
156.5°	2.5	3.9	7.3	10.6	13.6	15.5	14.0
157°	2.5	3.9	7.4	10.6	13.6	15.4	13.8

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CATALOG NUMBER: AWP150S-BZ-BZ-MID-3000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	2.6	4.0	7.5	10.7	13.6	15.3	13.7
158°	2.7	4.1	7.5	10.7	13.6	15.2	13.6
158.5°	2.8	4.3	7.6	10.7	13.6	15.2	13.5
159°	2.9	4.4	7.7	10.8	13.6	15.1	13.4
159.5°	3.0	4.5	7.8	10.8	13.6	15.0	13.2
160°	3.1	4.6	7.9	10.9	13.6	15.0	13.1
160.5°	3.2	4.7	8.0	10.9	13.5	14.9	12.9
161°	3.3	4.8	8.1	11.0	13.5	14.8	12.8
161.5°	3.4	5.0	8.2	11.0	13.5	14.7	12.7
162°	3.6	5.1	8.3	11.0	13.5	14.6	12.5
162.5°	3.7	5.2	8.4	11.1	13.4	14.6	12.3
163°	3.8	5.4	8.4	11.1	13.4	14.5	12.2
163.5°	3.9	5.5	8.5	11.2	13.4	14.4	12.0
164°	4.0	5.7	8.6	11.2	13.4	14.4	11.8
164.5°	4.2	5.8	8.7	11.2	13.4	14.3	11.7
165°	4.3	6.0	8.8	11.3	13.4	14.2	11.5
165.5°	4.4	6.1	8.9	11.3	13.4	14.2	11.3
166°	4.5	6.2	8.9	11.4	13.3	14.1	11.2
166.5°	4.6	6.4	9.0	11.4	13.3	14.0	11.1
167°	4.7	6.5	9.1	11.4	13.3	13.9	11.0
167.5°	4.8	6.6	9.2	11.5	13.3	13.9	10.8
168°	4.9	6.7	9.3	11.5	13.3	13.8	10.7
168.5°	5.0	6.9	9.4	11.6	13.2	13.7	10.5
169°	5.1	7.0	9.5	11.6	13.2	13.7	10.4
169.5°	5.2	7.1	9.5	11.6	13.2	13.6	10.3
170°	5.3	7.2	9.6	11.7	13.2	13.5	10.1
170.5°	5.4	7.3	9.7	11.7	13.1	13.4	10.0
171°	5.5	7.5	9.8	11.7	13.1	13.3	9.8
171.5°	5.6	7.6	9.9	11.7	13.0	13.2	9.7
172°	5.7	7.7	10.0	11.8	13.0	13.1	9.5
172.5°	5.8	7.8	10.1	11.8	12.9	13.0	9.4
173°	5.9	7.9	10.1	11.8	12.9	12.9	9.2
173.5°	6.0	8.0	10.2	11.8	12.9	12.8	9.1
174°	6.1	8.2	10.3	11.9	12.8	12.7	8.9
174.5°	6.2	8.3	10.4	11.9	12.8	12.7	8.8
175°	6.3	8.4	10.5	11.9	12.8	12.6	8.6
175.5°	6.4	8.5	10.5	11.9	12.7	12.5	8.5
176°	6.5	8.6	10.6	11.9	12.7	12.4	8.4
176.5°	6.6	8.7	10.7	12.0	12.6	12.3	8.2
177°	6.7	8.8	10.7	12.0	12.6	12.2	8.1
177.5°	6.8	8.9	10.8	12.0	12.5	12.2	8.0
178°	7.0	9.0	10.9	12.0	12.5	12.1	7.9
178.5°	7.1	9.1	11.0	12.0	12.4	12.0	7.7
179°	7.2	9.2	11.0	12.0	12.4	11.9	7.6
179.5°	7.3	9.3	11.1	12.1	12.3	11.8	7.5



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	7.4	7.4	7.4	7.4	7.4	7.4	7.4

(END OF REPORT)