

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: P1197136

Luminaire Tested: AWPf150S-BZ-BZ-HIGH-4000K-POSITION 45

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197136
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-HIGH-4000K-POSITION 45
Description: AWP Architectural Wall Pack Series - Wall Mount Luminaire
Light Source: 80 CRI, 4000K
Ballast/Driver: -

Summary

Lumens per Lamp: 18720 (1 lamp)
Luminaire Lumens: 20507.3 lumens
Efficiency: 109.5%
Efficacy: 141.4 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): 145
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

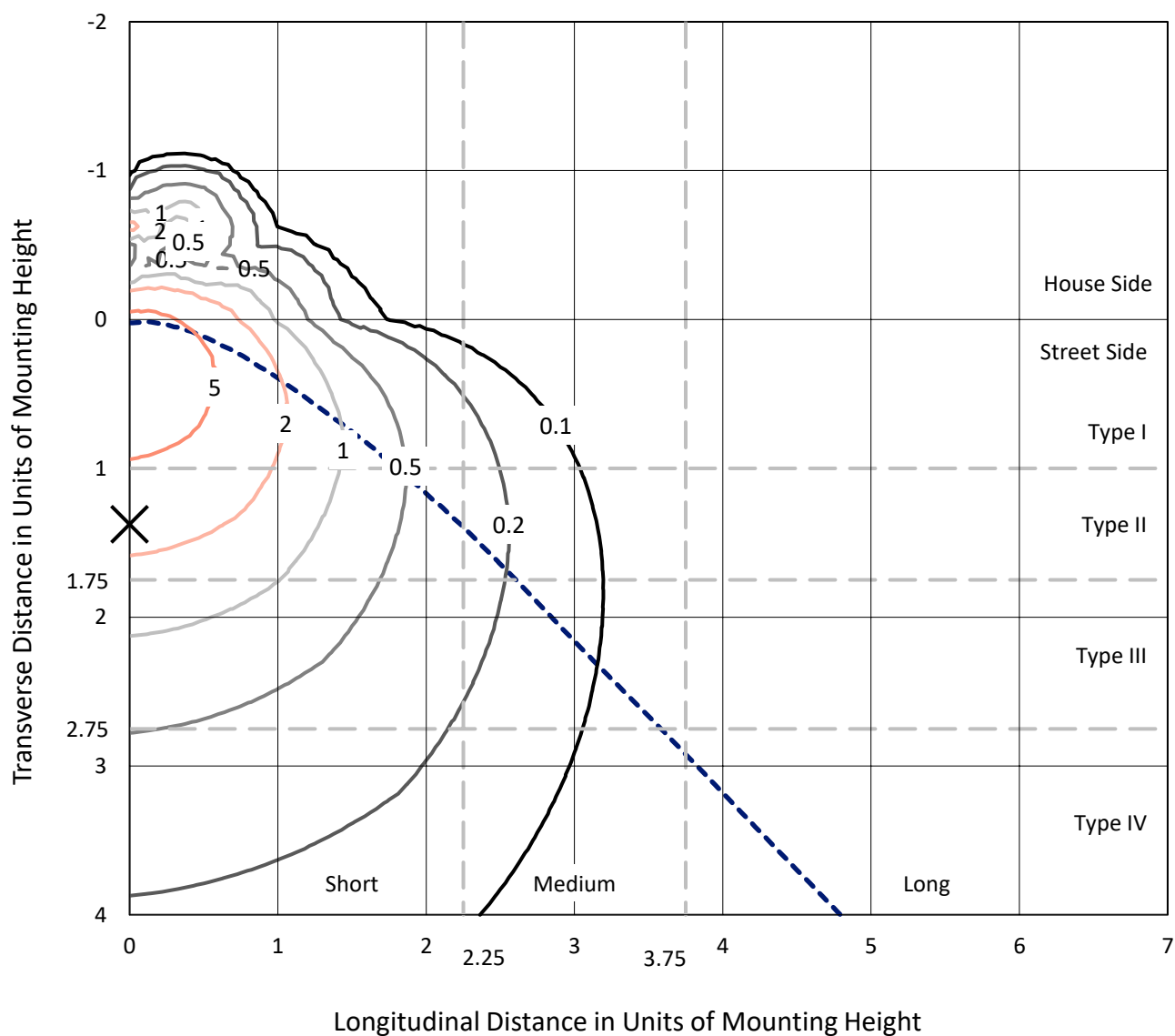
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

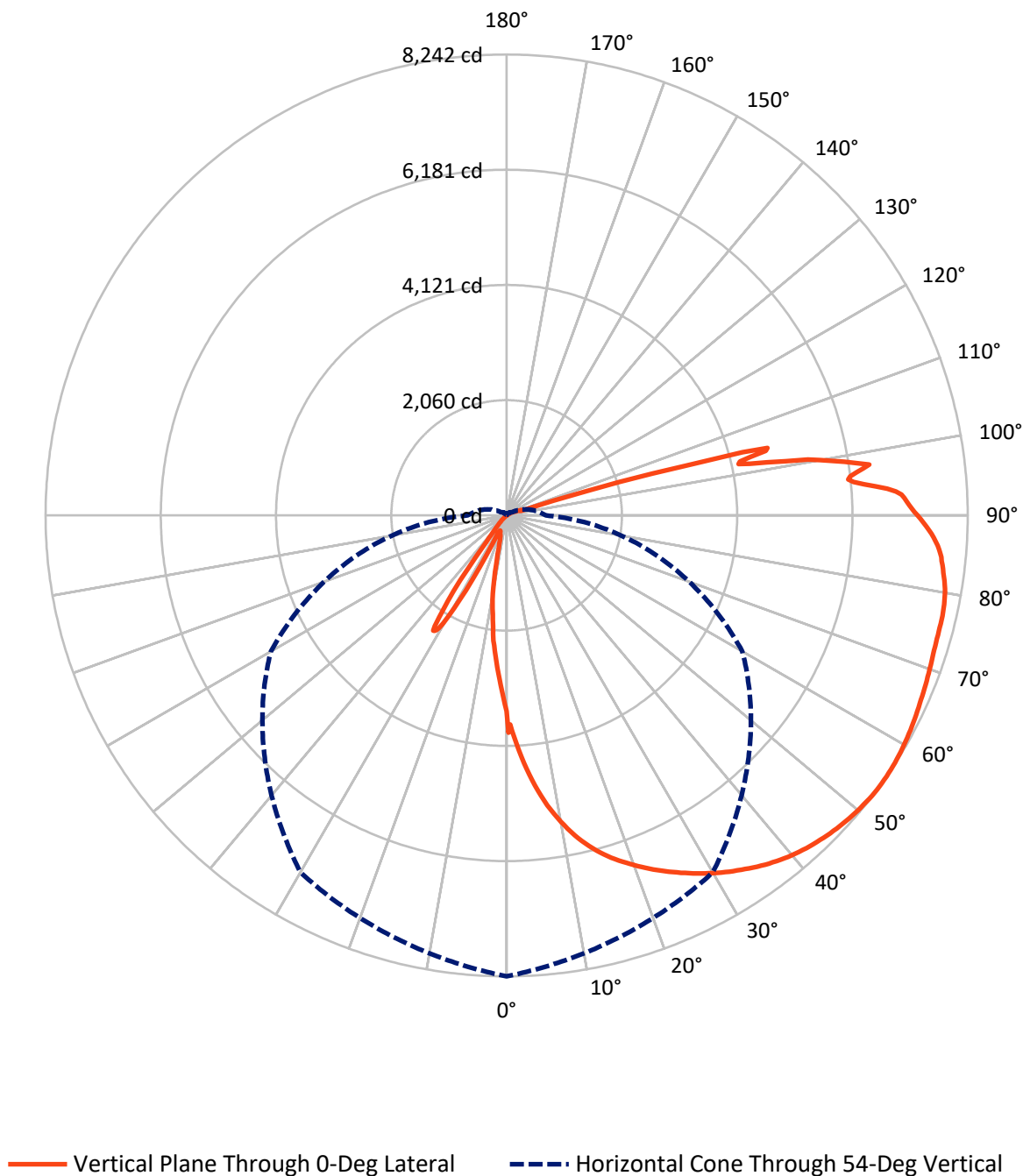


Based on 25 foot mounting height. Maximum calculated value = 9 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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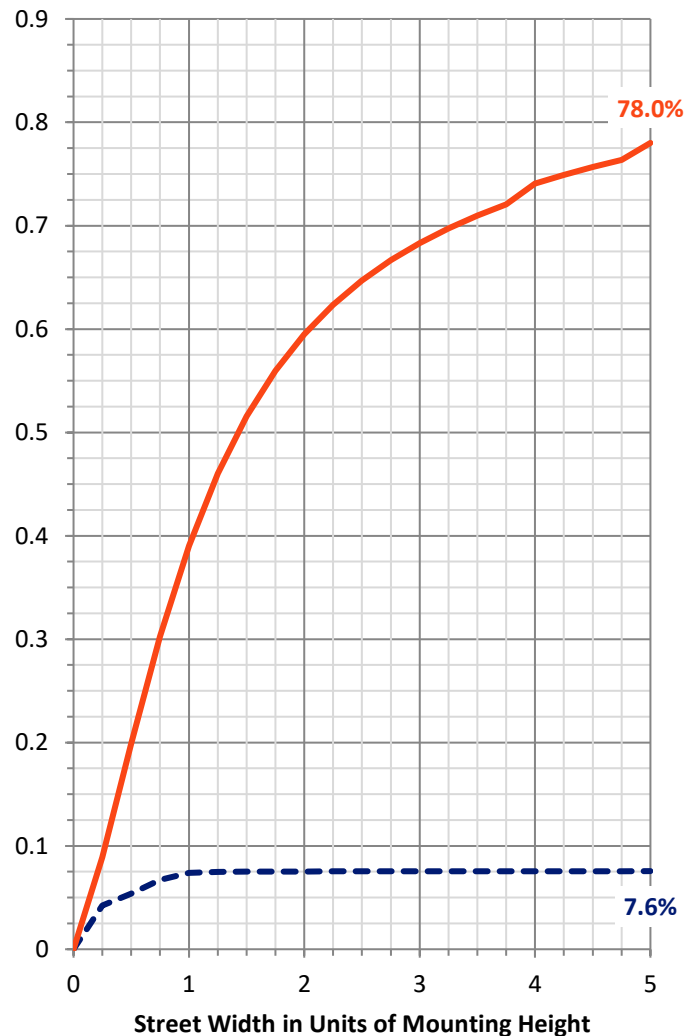
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1425.6	51.8	1477.4
	% Lamp	7.6	0.3	7.9
Street Side	Lumens	16377.6	2652.3	19029.9
	% Lamp	87.5	14.2	101.7
Total	Lumens	17803.2	2704.1	20507.3
	% Lamp	95.1	14.4	109.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	366.4	1.8	2.0
10°-20°	1018.7	5.0	5.4
20°-30°	1582.2	7.7	8.5
30°-40°	2202.0	10.7	11.8
40°-50°	2534.9	12.4	13.5
50°-60°	2564.3	12.5	13.7
60°-70°	2624.6	12.8	14.0
70°-80°	2560.2	12.5	13.7
80°-90°	2349.9	11.5	12.6
90°-100°	1960.7	9.6	10.5
100°-110°	667.6	3.3	3.6
110°-120°	39.3	0.2	0.2
120°-130°	10.2	0.0	0.1
130°-140°	8.5	0.0	0.0
140°-150°	7.3	0.0	0.0
150°-160°	5.7	0.0	0.0
160°-170°	3.6	0.0	0.0
170°-180°	1.3	0.0	0.0
0°-90°	17803.2	86.8	95.1
0°-180°	20507.3	100.0	109.5

Coefficient of Utilization



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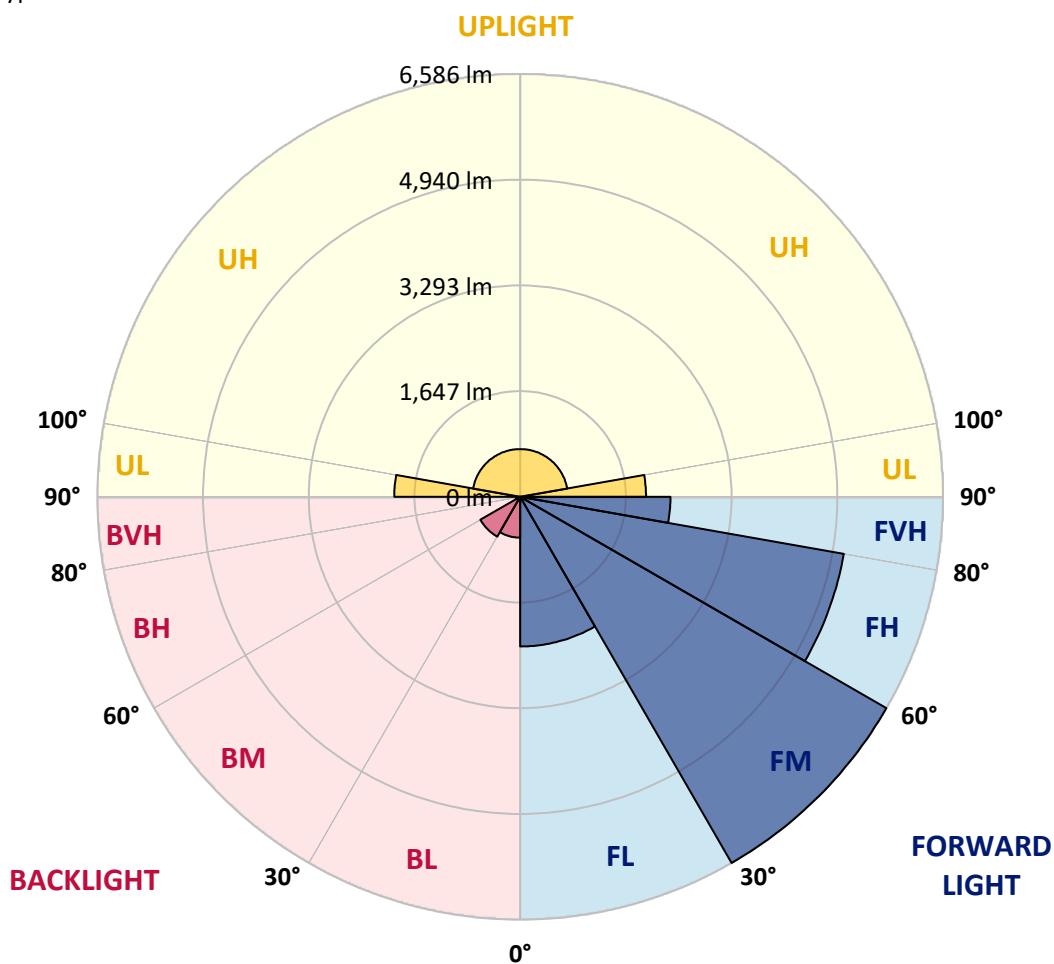
CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-4000K-POSITION 45

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2331.3	12.5			
FM	(30°-60°)	6586.2	35.2			
FH	(60°-80°)	5119.3	27.3			G3/7500
FVH	(80°-90°)	2340.8	12.5			G5
BL	(0°-30°)	636.1	3.4	B2/1000		
BM	(30°-60°)	714.9	3.8	B1/1000		
BH	(60°-80°)	65.5	0.3	B0/110		G0/110
BVH	(80°-90°)	9.1	0.0			G0/10
UL	(90°-100°)	1960.7	10.5		U5	
UH	(100°-180°)	743.4	4.0		U4/1000	
Trapped Light		-1787.3	-9.5			

BUG Rating: B2-U5-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	3885.0	3885.0	3885.0	3885.0	3885.0	3885.0	3885.0
0.5°	3738.3	3893.4	4012.4	4037.4	3958.6	3798.2	3497.4
1°	3858.4	3996.9	4069.9	4036.7	3900.2	3692.1	3380.2
1.5°	3978.3	4096.4	4126.7	4033.6	3841.3	3585.3	3262.8
2°	4093.1	4194.0	4183.7	4032.1	3777.7	3487.9	3146.4
2.5°	4207.0	4293.1	4240.0	4030.7	3716.3	3382.5	3035.1
3°	4322.4	4388.2	4292.0	4026.7	3653.7	3279.5	2929.8
3.5°	4435.4	4482.0	4343.8	4020.5	3589.6	3179.1	2829.3
4°	4539.7	4578.4	4397.9	4015.7	3525.9	3084.8	2728.9
4.5°	4649.9	4669.4	4448.3	4010.4	3463.0	2987.1	2628.6
5°	4751.4	4755.6	4495.4	4003.4	3398.2	2880.3	2528.3
5.5°	4856.1	4842.6	4545.4	3996.3	3335.6	2794.3	2428.0
6°	4955.8	4927.6	4592.9	3988.0	3270.6	2708.6	2336.1
6.5°	5049.7	5006.5	4639.7	3977.9	3207.8	2622.9	2252.4
7°	5140.6	5087.5	4685.0	3969.0	3142.9	2536.9	2140.1
7.5°	5231.9	5162.4	4730.2	3959.4	3080.6	2451.4	2001.2
8°	5318.7	5235.0	4770.8	3948.0	3016.8	2369.7	1880.8
8.5°	5400.4	5306.3	4812.6	3936.1	2954.7	2292.3	1775.6
9°	5480.6	5375.4	4851.7	3924.2	2891.6	2216.9	1685.9
9.5°	5556.3	5442.4	4891.4	3910.9	2826.3	2142.2	1603.7
10°	5628.8	5507.1	4927.5	3897.5	2763.6	2042.2	1517.2
10.5°	5705.9	5568.7	4964.9	3882.8	2700.4	1924.1	1419.4
11°	5777.1	5629.6	5000.4	3867.5	2636.6	1817.4	1302.6
11.5°	5845.7	5689.6	5034.0	3852.2	2576.6	1724.2	1164.5
12°	5910.9	5747.6	5065.8	3835.6	2516.6	1644.8	1027.1
12.5°	5973.9	5800.5	5098.3	3818.0	2455.9	1569.3	901.9
13°	6032.7	5854.2	5129.5	3798.8	2396.7	1492.5	796.7
13.5°	6091.3	5904.4	5158.6	3779.7	2341.3	1410.8	707.9
14°	6148.0	5953.2	5186.0	3759.2	2282.9	1314.8	636.2
14.5°	6201.4	6000.4	5213.0	3738.3	2226.1	1200.7	572.9
15°	6252.5	6044.8	5238.5	3716.7	2171.2	1080.4	520.4
15.5°	6304.9	6088.6	5264.4	3693.7	2115.6	961.2	476.0
16°	6353.9	6131.5	5287.8	3670.8	2061.5	851.8	441.9
16.5°	6398.1	6171.4	5311.5	3649.3	2008.7	754.9	414.8
17°	6445.0	6210.2	5332.9	3625.2	1957.5	676.3	395.6
17.5°	6489.9	6247.3	5353.2	3600.6	1899.1	612.1	381.5
18°	6528.7	6282.6	5372.7	3577.1	1824.5	554.5	371.7
18.5°	6570.6	6316.2	5390.2	3551.4	1746.7	507.1	365.8
19°	6612.8	6344.3	5407.2	3522.1	1675.3	467.3	362.5
19.5°	6654.3	6372.2	5423.5	3494.5	1608.6	433.4	359.7
20°	6693.3	6400.2	5439.1	3466.6	1543.6	406.9	353.9
20.5°	6734.4	6428.0	5452.8	3439.5	1485.4	386.2	342.6
21°	6773.8	6455.8	5466.3	3410.8	1431.1	372.1	327.4
21.5°	6812.5	6484.1	5479.0	3382.8	1376.6	362.5	313.1
22°	6851.8	6507.9	5490.7	3353.1	1318.4	357.6	307.7

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CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-4000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	6889.8	6536.0	5501.5	3322.1	1258.0	356.6	302.4
23°	6928.3	6563.3	5512.0	3293.0	1192.5	359.4	297.2
23.5°	6966.1	6589.0	5520.7	3261.2	1121.0	364.3	292.1
24°	7002.4	6615.8	5528.9	3229.6	1047.2	371.3	302.0
24.5°	7036.8	6641.7	5535.3	3197.3	966.4	380.1	315.3
25°	7073.0	6667.2	5541.6	3165.0	887.9	390.5	328.4
25.5°	7108.5	6693.6	5546.9	3131.2	816.2	398.2	335.6
26°	7143.5	6721.1	5551.9	3097.9	752.6	400.0	336.8
26.5°	7179.1	6743.7	5555.6	3064.1	698.7	397.8	357.8
27°	7216.0	6767.5	5558.3	3027.4	659.4	394.1	587.8
27.5°	7249.8	6790.9	5559.1	2993.7	633.3	383.8	822.2
28°	7285.0	6814.1	5560.9	2958.5	615.8	371.0	1056.6
28.5°	7318.3	6838.5	5561.7	2917.9	598.5	361.6	1291.0
29°	7351.3	6860.6	5560.6	2883.1	581.1	354.7	1525.5
29.5°	7383.6	6884.3	5559.5	2849.2	563.9	350.4	1705.0
30°	7416.4	6906.4	5556.6	2810.5	546.9	348.4	1900.3
30.5°	7450.5	6929.3	5553.7	2770.1	535.6	348.8	2090.4
31°	7480.5	6949.4	5549.5	2734.5	527.3	346.1	2236.9
31.5°	7510.9	6971.2	5545.6	2697.8	520.1	343.1	2347.7
32°	7540.1	6991.1	5540.2	2657.2	506.4	339.2	2403.7
32.5°	7569.7	7008.8	5534.4	2621.5	487.6	334.9	2436.1
33°	7599.9	7029.2	5528.4	2584.3	469.1	330.2	2441.6
33.5°	7627.8	7049.4	5522.5	2544.7	456.3	334.8	2358.8
34°	7656.2	7068.4	5514.9	2506.9	446.9	346.0	2180.8
34.5°	7685.9	7087.7	5506.8	2472.3	439.3	370.7	2023.0
35°	7713.7	7106.3	5498.9	2436.4	435.6	574.8	1855.0
35.5°	7741.3	7124.1	5491.0	2401.0	432.3	786.5	1651.7
36°	7768.0	7140.3	5482.5	2370.9	429.5	997.8	1422.1
36.5°	7793.1	7158.7	5473.7	2342.3	426.8	1208.9	1180.2
37°	7818.0	7176.6	5464.4	2313.9	424.2	1419.8	926.2
37.5°	7842.7	7192.0	5455.0	2286.8	420.8	1588.3	729.8
38°	7866.2	7208.2	5444.5	2259.7	416.1	1703.6	597.2
38.5°	7888.6	7225.8	5433.6	2225.5	411.5	1772.1	510.7
39°	7910.5	7239.0	5422.0	2183.7	406.6	1803.6	446.1
39.5°	7931.6	7252.0	5409.6	2132.2	401.8	1817.7	392.3
40°	7952.0	7267.1	5395.8	2075.6	397.4	1836.2	349.1
40.5°	7969.9	7279.5	5382.7	2019.4	392.6	1825.5	322.8
41°	7988.2	7291.8	5368.7	1967.2	386.9	1765.7	297.1
41.5°	8006.6	7304.6	5354.0	1914.0	380.0	1655.9	271.5
42°	8021.0	7315.5	5340.2	1864.1	372.6	1550.3	246.0
42.5°	8037.8	7326.6	5326.5	1817.3	364.7	1443.4	220.5
43°	8052.6	7336.6	5312.0	1773.0	356.5	1345.0	200.9
43.5°	8066.2	7345.0	5296.8	1728.8	348.2	1251.4	179.7
44°	8081.6	7353.2	5282.7	1684.4	339.7	1165.4	157.7
44.5°	8094.9	7360.6	5265.8	1642.5	330.8	1083.3	138.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	8108.4	7368.0	5249.7	1601.9	322.1	1000.5	119.4
45.5°	8119.1	7373.9	5233.1	1564.2	313.5	908.5	99.0
46°	8132.0	7378.5	5216.2	1528.2	304.5	813.4	78.1
46.5°	8143.7	7383.9	5197.3	1492.8	295.3	722.9	60.6
47°	8154.1	7386.6	5178.2	1456.8	286.7	644.3	47.0
47.5°	8164.6	7389.2	5158.9	1421.6	278.2	575.8	38.6
48°	8174.6	7392.6	5138.6	1385.5	269.9	514.2	35.1
48.5°	8183.5	7393.4	5118.1	1347.6	254.6	457.3	32.4
49°	8191.8	7394.9	5097.1	1305.2	235.6	404.3	29.6
49.5°	8200.4	7395.5	5076.0	1259.0	222.3	356.0	26.7
50°	8208.0	7394.3	5054.9	1210.0	211.5	307.0	23.8
50.5°	8215.1	7393.9	5032.1	1153.1	198.6	257.4	21.1
51°	8221.6	7394.4	5008.9	1092.1	189.1	207.8	18.9
51.5°	8227.6	7391.4	4985.8	1024.9	181.0	158.2	16.3
52°	8232.2	7387.1	4962.2	953.5	169.8	108.6	13.6
52.5°	8235.1	7384.7	4938.0	884.2	150.2	69.0	12.2
53°	8238.7	7379.5	4914.4	816.2	133.5	28.9	11.1
53.5°	8239.7	7374.5	4890.0	752.0	123.0	21.2	10.1
54°	8241.5	7369.1	4864.4	699.2	116.8	20.1	9.3
54.5°	8240.4	7363.1	4839.3	657.5	112.3	19.8	8.6
55°	8240.2	7354.8	4813.7	622.4	108.3	19.3	8.2
55.5°	8239.2	7347.5	4786.2	593.0	105.1	18.8	8.0
56°	8237.0	7339.3	4758.7	569.7	101.7	18.3	7.8
56.5°	8233.1	7330.2	4730.4	550.5	98.3	17.6	7.6
57°	8230.6	7322.4	4700.7	536.1	93.7	16.7	7.5
57.5°	8224.8	7313.3	4671.3	524.8	89.7	15.1	7.4
58°	8220.0	7303.0	4642.0	517.0	85.8	14.1	7.2
58.5°	8215.2	7295.4	4612.5	511.4	82.0	13.2	7.1
59°	8209.8	7285.6	4583.0	507.5	77.5	12.5	7.1
59.5°	8203.1	7274.4	4553.5	504.5	72.1	11.7	7.0
60°	8197.0	7266.0	4524.1	500.8	66.5	11.1	7.0
60.5°	8190.0	7256.7	4491.9	496.3	62.6	10.5	7.0
61°	8182.1	7244.7	4460.1	492.4	59.4	10.0	7.2
61.5°	8174.3	7233.6	4428.7	488.4	56.4	9.5	7.3
62°	8165.7	7223.4	4394.5	484.0	53.4	9.0	7.4
62.5°	8158.4	7211.3	4359.5	479.8	50.0	8.5	7.6
63°	8149.9	7199.1	4328.4	473.8	46.2	8.1	7.8
63.5°	8141.6	7187.8	4294.4	466.3	41.8	7.8	8.0
64°	8133.6	7173.1	4261.4	458.0	37.0	7.5	8.2
64.5°	8124.8	7160.4	4230.0	448.4	32.1	7.1	8.4
65°	8115.2	7145.9	4200.1	437.9	27.0	6.9	8.6
65.5°	8108.1	7130.6	4169.8	427.4	22.4	6.6	8.8
66°	8099.2	7115.7	4140.3	418.2	18.0	6.5	9.0
66.5°	8093.1	7100.1	4111.3	408.1	13.8	6.3	9.2
67°	8084.9	7081.8	4081.7	398.0	10.4	6.3	9.4

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CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-4000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	8078.8	7063.1	4051.8	386.6	8.7	6.3	9.6
68°	8070.9	7046.0	4021.7	374.8	8.3	6.3	9.8
68.5°	8062.0	7026.2	3989.5	364.1	8.2	6.3	10.1
69°	8055.8	7007.0	3959.0	354.9	8.1	6.3	10.3
69.5°	8046.8	6988.5	3924.8	345.2	8.0	6.4	10.6
70°	8038.9	6968.7	3887.6	333.9	7.7	6.5	10.9
70.5°	8031.7	6950.4	3851.2	322.2	7.2	6.6	11.2
71°	8026.7	6931.5	3813.8	310.9	7.0	6.8	11.5
71.5°	8019.4	6913.3	3774.3	300.0	6.8	7.0	11.7
72°	8012.6	6897.8	3734.0	289.1	6.8	7.2	12.0
72.5°	8008.5	6881.9	3694.0	278.2	6.8	7.4	12.2
73°	8005.5	6866.1	3650.1	267.3	6.8	7.6	12.5
73.5°	8002.2	6850.9	3606.5	256.5	6.8	7.9	12.8
74°	7999.2	6838.5	3559.9	244.8	6.8	8.1	13.0
74.5°	7997.1	6825.9	3512.1	233.0	6.8	8.3	13.3
75°	7997.8	6814.9	3464.9	220.3	6.9	8.6	13.6
75.5°	7995.8	6807.1	3419.6	207.2	6.9	8.8	13.9
76°	7994.7	6799.7	3373.1	194.0	6.9	9.0	14.1
76.5°	7993.6	6792.8	3328.6	181.3	7.0	9.2	14.4
77°	7990.6	6786.3	3283.8	168.2	7.0	9.4	14.6
77.5°	7987.5	6780.9	3236.4	155.4	7.1	9.7	14.8
78°	7983.2	6774.2	3181.3	142.8	7.1	9.9	15.0
78.5°	7974.6	6768.5	3128.0	131.0	7.2	10.1	15.3
79°	7966.0	6760.5	3069.5	119.8	7.3	10.3	15.5
79.5°	7957.0	6748.6	3012.9	109.2	7.4	10.5	15.7
80°	7944.0	6736.8	2954.5	98.1	7.4	10.8	16.0
80.5°	7929.8	6725.3	2900.0	88.0	7.5	11.0	16.2
81°	7911.5	6709.8	2842.4	78.5	7.6	11.2	16.5
81.5°	7893.5	6694.2	2789.8	70.1	7.7	11.4	16.7
82°	7875.7	6679.2	2733.5	62.7	7.8	11.6	16.9
82.5°	7859.1	6661.1	2671.8	56.4	7.9	11.8	17.1
83°	7839.5	6640.3	2607.5	50.8	8.0	12.1	17.3
83.5°	7821.0	6617.3	2545.3	45.5	8.1	12.3	17.5
84°	7804.7	6597.8	2485.4	40.7	8.2	12.5	17.7
84.5°	7780.3	6582.4	2429.5	36.4	8.4	12.7	18.0
85°	7752.3	6570.3	2376.9	32.3	8.5	13.0	18.2
85.5°	7722.9	6555.6	2325.7	28.9	8.6	13.1	18.4
86°	7685.6	6543.5	2279.0	25.8	8.8	13.4	18.6
86.5°	7644.0	6533.1	2232.5	22.9	8.9	13.6	18.8
87°	7602.2	6524.6	2193.2	20.0	9.1	13.8	19.0
87.5°	7554.4	6516.3	2156.9	17.6	9.2	14.0	19.2
88°	7503.1	6509.3	2121.2	15.1	9.4	14.2	19.3
88.5°	7453.1	6501.8	2085.8	12.9	9.5	14.4	19.5
89°	7398.9	6491.5	2056.2	11.1	9.6	14.5	19.6
89.5°	7343.0	6481.7	2038.8	9.7	9.7	14.7	19.8

REPORT NUMBER: P1197136

CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-4000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	7290.1	6479.4	2030.9	8.3	9.8	14.9	19.9
90.5°	7242.8	6491.4	2037.0	7.4	9.9	15.1	20.0
91°	7195.2	6523.5	2061.8	7.2	10.0	15.2	20.1
91.5°	7153.0	6577.3	2102.6	7.2	10.1	15.4	20.2
92°	7117.2	6639.6	2164.6	7.0	10.3	15.6	20.4
92.5°	7070.9	6674.3	2245.6	6.9	10.4	15.7	20.5
93°	6970.7	6679.2	2317.5	6.9	10.5	15.9	20.7
93.5°	6818.3	6625.0	2358.9	6.8	10.6	16.0	20.9
94°	6625.1	6529.3	2326.1	6.7	10.7	16.2	21.0
94.5°	6407.3	6386.4	2229.6	6.6	10.9	16.4	21.2
95°	6231.0	6227.5	2082.0	6.6	11.0	16.5	21.3
95.5°	6138.6	6068.3	1902.2	6.5	11.1	16.7	21.4
96°	6179.3	5871.2	1741.8	6.4	11.3	16.9	21.5
96.5°	6300.4	5575.7	1587.8	6.4	11.4	17.1	21.6
97°	6429.2	5212.8	1417.5	6.3	11.5	17.3	21.7
97.5°	6543.9	4855.1	1223.4	6.3	11.6	17.5	21.8
98°	6329.2	4490.0	1030.3	6.2	11.7	17.7	21.9
98.5°	6115.7	4208.0	872.9	6.2	11.8	17.8	22.0
99°	5904.3	4038.2	764.9	6.1	11.9	18.0	22.0
99.5°	5693.3	3900.8	656.9	6.0	12.0	18.1	22.1
100°	5474.3	3876.4	548.9	6.0	12.1	18.2	22.2
100.5°	5086.8	4063.1	440.9	5.9	12.2	18.3	22.3
101°	4749.3	4401.1	335.8	5.8	12.3	18.4	22.3
101.5°	4446.0	4684.8	305.2	5.8	12.4	18.5	22.4
102°	4245.1	4639.6	313.0	5.8	12.5	18.6	22.4
102.5°	4278.0	4141.4	336.1	5.7	12.6	18.8	22.5
103°	4490.9	3219.8	326.7	5.7	12.7	18.9	22.6
103.5°	4773.4	2875.0	317.1	5.7	12.8	19.1	22.6
104°	4815.4	2543.2	305.6	5.7	12.9	19.2	22.7
104.5°	4362.7	2211.2	293.1	5.7	13.0	19.4	22.7
105°	3325.5	1878.5	240.4	5.7	13.1	19.5	22.8
105.5°	2712.6	1545.1	146.8	5.7	13.2	19.6	22.8
106°	2099.8	1212.8	114.6	5.7	13.3	19.7	22.9
106.5°	1487.0	880.8	99.0	5.7	13.4	19.8	22.9
107°	874.1	548.8	83.4	5.8	13.5	19.9	22.9
107.5°	269.6	216.8	71.0	5.8	13.6	20.0	23.0
108°	258.2	213.0	60.1	5.8	13.7	20.0	23.0
108.5°	257.1	205.7	50.0	5.8	13.7	20.1	23.0
109°	266.1	187.8	40.7	5.9	13.8	20.2	23.1
109.5°	274.6	168.4	33.2	5.9	13.9	20.2	23.1
110°	282.2	150.3	27.1	6.0	14.0	20.3	23.1
110.5°	273.6	131.5	22.1	6.1	14.0	20.4	23.2
111°	241.3	118.0	18.5	6.2	14.1	20.5	23.2
111.5°	214.7	109.7	15.2	6.2	14.2	20.5	23.2
112°	200.6	105.5	13.0	6.3	14.2	20.6	23.2

REPORT NUMBER: P1197136

CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-4000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	185.8	104.4	11.6	6.4	14.3	20.6	23.3
113°	169.2	104.8	10.3	6.5	14.4	20.7	23.3
113.5°	161.0	108.0	9.1	6.5	14.5	20.7	23.3
114°	158.5	113.5	8.0	6.6	14.5	20.8	23.3
114.5°	159.1	118.3	7.1	6.7	14.6	20.8	23.3
115°	159.4	121.4	6.6	6.8	14.7	20.8	23.3
115.5°	157.2	121.7	6.2	6.8	14.7	20.9	23.3
116°	156.8	117.0	5.8	6.9	14.8	20.9	23.3
116.5°	156.5	101.5	5.4	7.0	14.9	21.0	23.3
117°	155.5	82.6	5.0	7.1	14.9	21.0	23.4
117.5°	151.7	57.4	4.7	7.2	15.0	21.0	23.4
118°	144.8	32.9	4.4	7.3	15.1	21.1	23.4
118.5°	133.8	21.3	4.1	7.3	15.1	21.1	23.4
119°	118.7	17.5	3.8	7.4	15.2	21.2	23.4
119.5°	99.1	14.5	3.5	7.5	15.2	21.2	23.4
120°	72.4	11.6	3.4	7.6	15.3	21.2	23.3
120.5°	44.5	8.9	3.2	7.7	15.3	21.3	23.3
121°	25.4	6.4	3.1	7.8	15.4	21.3	23.3
121.5°	17.7	4.7	3.0	7.9	15.4	21.3	23.3
122°	13.9	3.5	2.8	7.9	15.5	21.3	23.3
122.5°	10.5	2.7	2.7	8.0	15.5	21.3	23.3
123°	7.9	2.2	2.6	8.1	15.6	21.3	23.3
123.5°	5.8	2.0	2.6	8.2	15.6	21.3	23.3
124°	4.4	1.9	2.6	8.3	15.7	21.4	23.3
124.5°	3.3	1.8	2.6	8.4	15.7	21.4	23.3
125°	2.5	1.8	2.7	8.4	15.8	21.4	23.2
125.5°	2.1	1.7	2.7	8.5	15.8	21.4	23.2
126°	2.0	1.7	2.8	8.6	15.9	21.4	23.2
126.5°	1.9	1.7	2.8	8.7	15.9	21.4	23.2
127°	1.9	1.7	2.9	8.8	16.0	21.4	23.1
127.5°	1.8	1.7	3.0	8.9	16.0	21.4	23.1
128°	1.8	1.6	3.0	9.0	16.0	21.4	23.1
128.5°	1.8	1.6	3.1	9.1	16.1	21.4	23.1
129°	1.8	1.6	3.2	9.1	16.1	21.4	23.0
129.5°	1.8	1.6	3.3	9.2	16.2	21.4	23.0
130°	1.7	1.6	3.4	9.3	16.2	21.4	22.9
130.5°	1.7	1.6	3.5	9.4	16.3	21.4	22.9
131°	1.7	1.5	3.6	9.5	16.3	21.4	22.8
131.5°	1.7	1.5	3.7	9.6	16.4	21.4	22.8
132°	1.7	1.5	3.7	9.6	16.4	21.4	22.7
132.5°	1.6	1.5	3.8	9.7	16.4	21.4	22.7
133°	1.6	1.5	3.9	9.8	16.5	21.4	22.6
133.5°	1.5	1.5	4.0	9.9	16.5	21.3	22.6
134°	1.4	1.5	4.2	10.0	16.5	21.3	22.5
134.5°	1.4	1.5	4.3	10.1	16.6	21.3	22.5

REPORT NUMBER: P1197136

CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-4000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	1.3	1.5	4.4	10.2	16.6	21.3	22.4
135.5°	1.3	1.5	4.5	10.2	16.7	21.3	22.4
136°	1.3	1.5	4.6	10.3	16.7	21.3	22.4
136.5°	1.3	1.5	4.7	10.4	16.7	21.3	22.4
137°	1.3	1.5	4.8	10.5	16.7	21.2	22.4
137.5°	1.3	1.5	4.9	10.6	16.8	21.2	22.3
138°	1.3	1.6	5.0	10.6	16.8	21.2	22.3
138.5°	1.3	1.6	5.1	10.7	16.8	21.2	22.2
139°	1.3	1.7	5.2	10.8	16.9	21.1	22.1
139.5°	1.3	1.7	5.3	10.9	16.9	21.1	22.1
140°	1.3	1.8	5.5	11.0	16.9	21.1	22.0
140.5°	1.4	1.8	5.6	11.0	16.9	21.1	21.9
141°	1.4	1.9	5.7	11.1	16.9	21.0	21.8
141.5°	1.4	1.9	5.8	11.2	17.0	21.0	21.7
142°	1.5	2.0	5.9	11.3	17.0	21.0	21.6
142.5°	1.5	2.0	6.0	11.3	17.0	20.9	21.5
143°	1.5	2.1	6.1	11.4	17.0	20.9	21.3
143.5°	1.6	2.2	6.2	11.5	17.0	20.8	21.2
144°	1.6	2.3	6.3	11.6	17.0	20.7	21.1
144.5°	1.7	2.3	6.4	11.6	17.0	20.7	21.0
145°	1.7	2.4	6.5	11.7	17.0	20.6	20.9
145.5°	1.8	2.5	6.6	11.8	17.0	20.6	20.7
146°	1.9	2.6	6.8	11.9	17.0	20.5	20.6
146.5°	1.9	2.7	6.9	12.0	17.0	20.5	20.5
147°	2.0	2.8	7.0	12.0	17.0	20.4	20.3
147.5°	2.0	2.8	7.1	12.1	17.0	20.3	20.2
148°	2.1	2.9	7.2	12.2	17.0	20.3	20.1
148.5°	2.1	3.0	7.3	12.2	17.0	20.2	20.0
149°	2.2	3.1	7.4	12.3	17.0	20.2	19.9
149.5°	2.2	3.2	7.5	12.4	17.1	20.1	19.8
150°	2.3	3.3	7.6	12.4	17.1	20.1	19.6
150.5°	2.3	3.4	7.7	12.5	17.1	20.1	19.5
151°	2.4	3.5	7.9	12.6	17.1	20.0	19.3
151.5°	2.4	3.6	8.0	12.7	17.1	20.0	19.2
152°	2.5	3.8	8.1	12.7	17.1	19.9	19.0
152.5°	2.5	3.9	8.2	12.8	17.1	19.9	18.9
153°	2.6	4.0	8.3	12.9	17.1	19.9	18.7
153.5°	2.6	4.1	8.4	12.9	17.1	19.9	18.5
154°	2.7	4.2	8.5	13.0	17.1	19.8	18.4
154.5°	2.8	4.4	8.6	13.1	17.1	19.7	18.2
155°	2.8	4.5	8.8	13.1	17.1	19.7	18.1
155.5°	2.9	4.6	8.9	13.1	17.1	19.6	17.9
156°	3.0	4.7	9.0	13.2	17.1	19.5	17.7
156.5°	3.1	4.8	9.1	13.3	17.1	19.4	17.5
157°	3.2	4.9	9.2	13.3	17.1	19.3	17.4

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CATALOG NUMBER: AWP150S-BZ-BZ-HIGH-4000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	3.3	5.1	9.4	13.4	17.1	19.2	17.2
158°	3.4	5.2	9.5	13.4	17.1	19.1	17.1
158.5°	3.5	5.4	9.6	13.5	17.0	19.1	17.0
159°	3.6	5.5	9.7	13.6	17.0	19.0	16.8
159.5°	3.8	5.6	9.8	13.6	17.0	18.9	16.6
160°	3.9	5.8	9.9	13.7	17.0	18.8	16.4
160.5°	4.0	5.9	10.0	13.7	17.0	18.7	16.3
161°	4.2	6.1	10.2	13.8	16.9	18.6	16.1
161.5°	4.3	6.2	10.3	13.8	16.9	18.5	15.9
162°	4.5	6.4	10.4	13.9	16.9	18.4	15.7
162.5°	4.6	6.6	10.5	13.9	16.9	18.3	15.5
163°	4.8	6.8	10.6	14.0	16.9	18.2	15.3
163.5°	4.9	6.9	10.7	14.0	16.9	18.1	15.1
164°	5.1	7.1	10.8	14.1	16.9	18.0	14.8
164.5°	5.2	7.3	10.9	14.1	16.8	18.0	14.6
165°	5.4	7.5	11.0	14.2	16.8	17.9	14.4
165.5°	5.5	7.6	11.1	14.2	16.8	17.8	14.2
166°	5.6	7.8	11.2	14.3	16.8	17.7	14.1
166.5°	5.8	8.0	11.3	14.3	16.7	17.6	13.9
167°	5.9	8.1	11.4	14.4	16.7	17.5	13.8
167.5°	6.0	8.3	11.5	14.4	16.7	17.4	13.6
168°	6.2	8.5	11.7	14.4	16.7	17.3	13.4
168.5°	6.3	8.6	11.8	14.5	16.6	17.2	13.2
169°	6.4	8.8	11.9	14.6	16.6	17.2	13.1
169.5°	6.5	8.9	12.0	14.6	16.6	17.1	12.9
170°	6.7	9.1	12.1	14.7	16.5	17.0	12.7
170.5°	6.8	9.2	12.2	14.7	16.5	16.9	12.5
171°	6.9	9.4	12.3	14.7	16.4	16.7	12.4
171.5°	7.1	9.5	12.4	14.8	16.4	16.6	12.2
172°	7.2	9.7	12.5	14.8	16.3	16.5	12.0
172.5°	7.3	9.8	12.6	14.8	16.3	16.3	11.8
173°	7.4	10.0	12.7	14.8	16.2	16.2	11.5
173.5°	7.5	10.1	12.8	14.9	16.2	16.1	11.4
174°	7.7	10.2	12.9	14.9	16.1	16.0	11.2
174.5°	7.8	10.4	13.0	14.9	16.1	15.9	11.0
175°	7.9	10.5	13.1	15.0	16.0	15.8	10.8
175.5°	8.1	10.7	13.2	15.0	16.0	15.7	10.7
176°	8.2	10.8	13.3	15.0	15.9	15.6	10.5
176.5°	8.3	10.9	13.4	15.0	15.9	15.5	10.3
177°	8.5	11.1	13.5	15.1	15.8	15.4	10.2
177.5°	8.6	11.2	13.6	15.1	15.8	15.3	10.0
178°	8.7	11.4	13.7	15.1	15.7	15.1	9.9
178.5°	8.9	11.5	13.8	15.1	15.6	15.0	9.7
179°	9.0	11.6	13.9	15.1	15.6	14.9	9.6
179.5°	9.2	11.7	13.9	15.1	15.5	14.8	9.4



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	9.3	9.3	9.3	9.3	9.3	9.3	9.3

(END OF REPORT)