

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: P1197235

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

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197235
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-HIGH-4000K-POSITION 30
Description: AWP Architectural
Light Source: 80 CRI, 4000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19110 (1 lamp)
Luminaire Lumens: 20486 lumens
Efficiency: 107.2%
Efficacy: 141.3 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

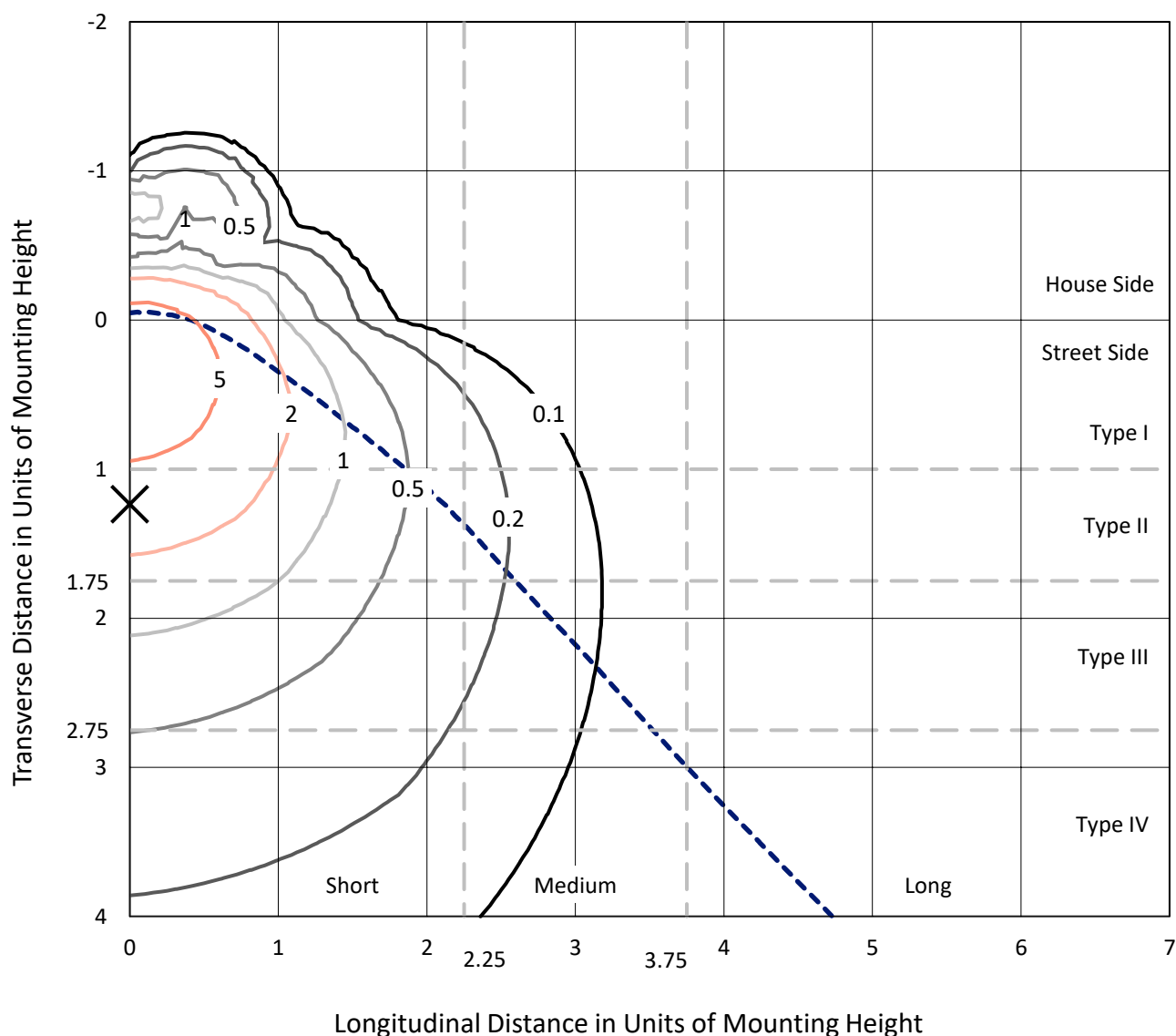
Input Watts (W): 145
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
 - - - 1/2 Max cd

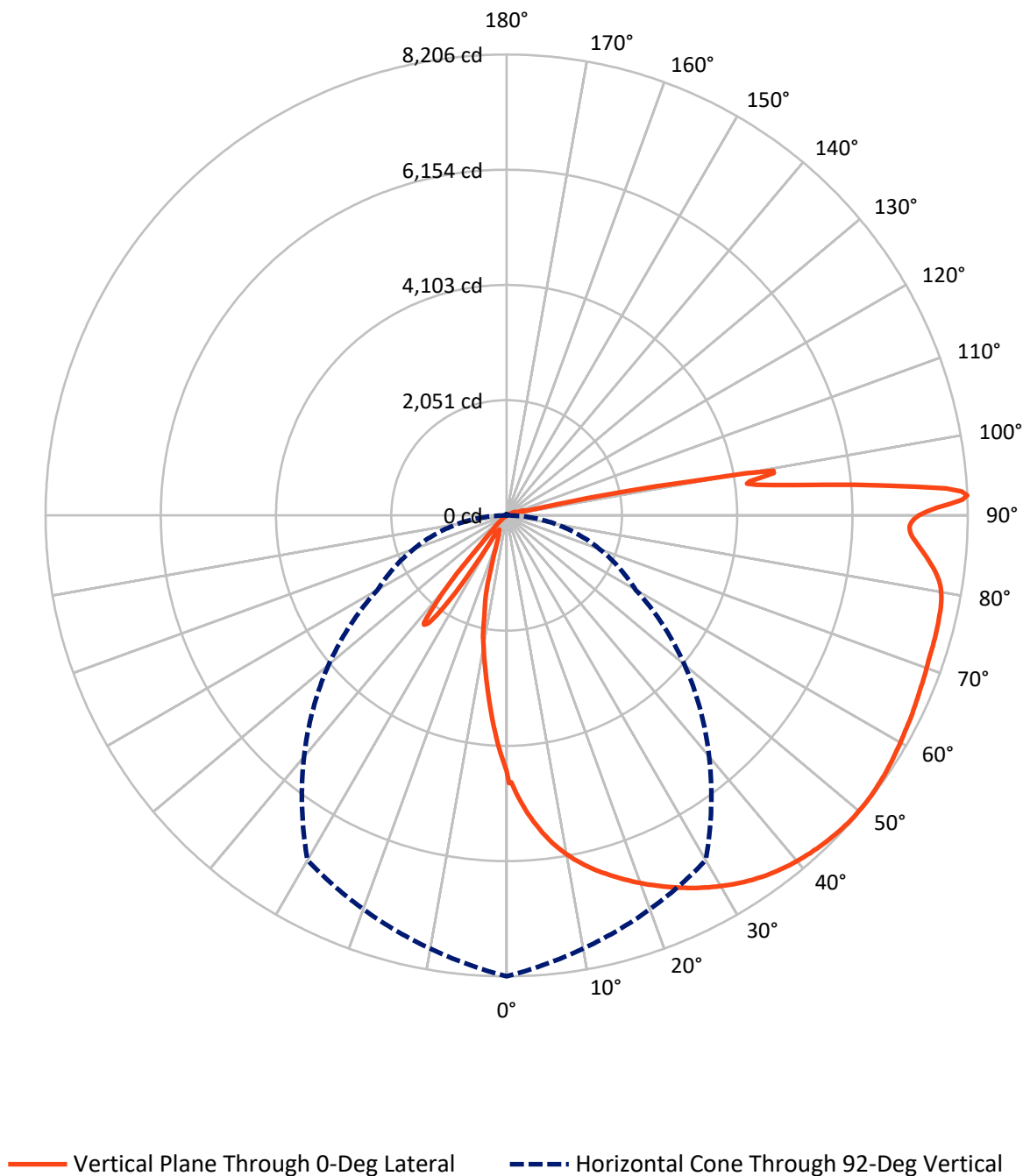


Based on 25 foot mounting height. Maximum calculated value = 9.6 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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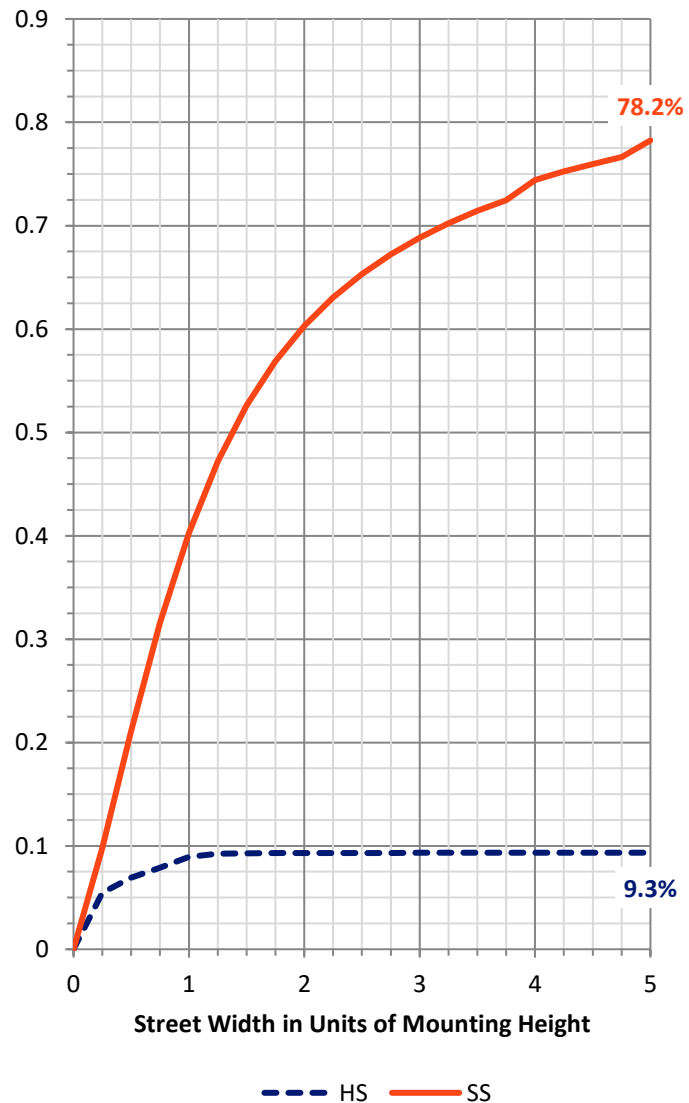
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1804.9	52.0	1856.9
	% Lamp	9.4	0.3	9.7
Street Side	Lumens	16747.7	1881.5	18629.1
	% Lamp	87.6	9.8	97.5
Total	Lumens	18552.5	1933.5	20486.0
	% Lamp	97.1	10.1	107.2

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	440.8	2.2	2.3
10°-20°	1193.5	5.8	6.2
20°-30°	1745.8	8.5	9.1
30°-40°	2287.9	11.2	12.0
40°-50°	2699.2	13.2	14.1
50°-60°	2661.0	13.0	13.9
60°-70°	2624.0	12.8	13.7
70°-80°	2537.3	12.4	13.3
80°-90°	2363.1	11.5	12.4
90°-100°	1736.8	8.5	9.1
100°-110°	133.7	0.7	0.7
110°-120°	25.7	0.1	0.1
120°-130°	9.5	0.0	0.0
130°-140°	8.8	0.0	0.0
140°-150°	7.7	0.0	0.0
150°-160°	6.1	0.0	0.0
160°-170°	3.9	0.0	0.0
170°-180°	1.4	0.0	0.0
0°-90°	18552.5	90.6	97.1
0°-180°	20486.0	100.0	107.2

Coefficient of Utilization



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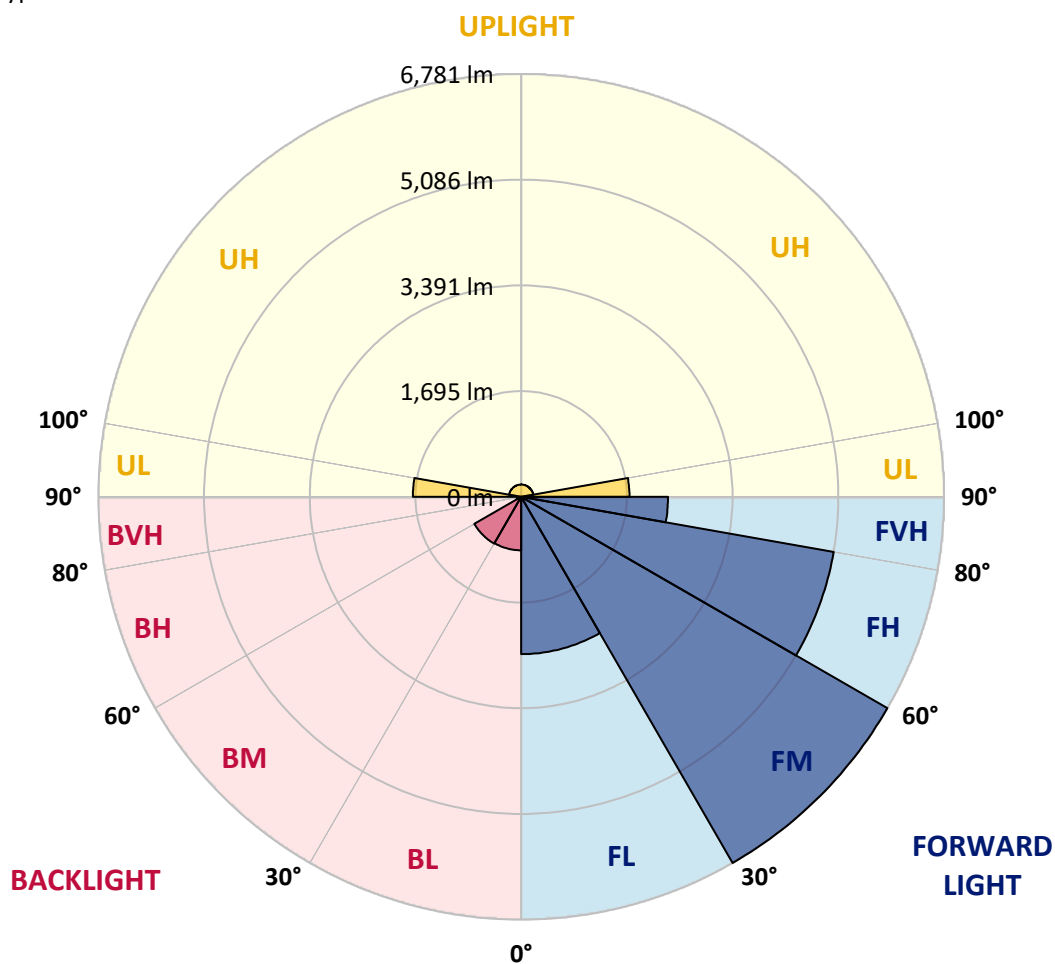
CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-4000K-POSITION 30

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2522.6	13.2			
FM	(30°-60°)	6781.1	35.5			
FH	(60°-80°)	5089.5	26.6			G3/7500
FVH	(80°-90°)	2354.5	12.3			G5
BL	(0°-30°)	857.5	4.5	B2/1000		
BM	(30°-60°)	866.9	4.5	B1/1000		
BH	(60°-80°)	71.9	0.4	B0/110		G0/110
BVH	(80°-90°)	8.6	0.0			G0/10
UL	(90°-100°)	1736.8	9.1		U5	
UH	(100°-180°)	196.7	1.0		U3/500	
Trapped Light		-1376.0	-7.2			

BUG Rating: B2-U5-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2	4764.2
0.5°	4753.0	4843.6	4841.2	4827.9	4769.0	4648.8	4547.9
1°	4855.2	4924.2	4888.4	4826.7	4717.0	4556.4	4434.3
1.5°	4952.7	5009.5	4936.5	4825.2	4664.9	4465.9	4326.9
2°	5041.7	5089.1	4982.7	4823.0	4610.9	4370.5	4221.3
2.5°	5133.2	5163.7	5028.0	4819.2	4555.1	4274.5	4104.8
3°	5222.2	5241.5	5071.1	4815.8	4498.6	4177.2	3991.6
3.5°	5306.4	5312.9	5111.6	4810.7	4441.1	4074.5	3876.2
4°	5387.3	5380.6	5152.5	4805.0	4381.9	3975.4	3755.6
4.5°	5471.1	5448.5	5192.3	4799.3	4321.4	3872.3	3633.8
5°	5537.2	5515.0	5228.9	4792.9	4262.9	3769.6	3519.1
5.5°	5614.7	5575.3	5266.7	4784.5	4201.6	3664.7	3400.2
6°	5689.4	5639.0	5302.1	4776.5	4136.7	3556.6	3281.2
6.5°	5756.5	5699.1	5337.3	4767.2	4074.1	3454.0	3170.2
7°	5822.9	5757.5	5371.5	4757.0	4007.7	3349.7	3059.5
7.5°	5889.9	5811.1	5402.9	4747.7	3942.6	3246.7	2946.4
8°	5949.6	5866.0	5434.3	4736.7	3876.0	3143.9	2848.1
8.5°	6009.6	5916.9	5464.0	4724.0	3807.3	3043.8	2749.9
9°	6065.6	5966.3	5491.9	4712.1	3741.0	2949.0	2651.8
9.5°	6122.2	6014.7	5520.5	4697.7	3671.7	2858.8	2553.8
10°	6173.6	6061.4	5547.3	4684.3	3599.6	2768.7	2455.6
10.5°	6226.2	6105.1	5572.6	4669.6	3532.4	2678.7	2362.6
11°	6276.0	6148.1	5597.1	4653.7	3460.2	2588.6	2274.2
11.5°	6323.0	6189.7	5621.4	4637.2	3388.0	2498.7	2195.0
12°	6368.9	6228.0	5642.9	4621.5	3316.9	2414.4	2080.6
12.5°	6413.4	6265.5	5664.3	4602.9	3246.5	2332.2	1942.7
13°	6456.9	6302.5	5684.0	4584.7	3172.5	2252.8	1831.6
13.5°	6499.9	6336.7	5702.4	4565.8	3101.4	2177.4	1732.3
14°	6539.7	6365.6	5720.4	4545.4	3031.8	2107.1	1645.9
14.5°	6581.6	6394.2	5737.9	4524.0	2959.0	2007.5	1565.5
15°	6619.3	6422.8	5753.9	4502.5	2887.9	1891.9	1475.9
15.5°	6661.3	6451.5	5770.4	4479.8	2819.6	1785.4	1372.4
16°	6700.1	6480.2	5785.2	4455.4	2747.8	1695.2	1249.5
16.5°	6738.9	6512.1	5797.9	4432.0	2679.9	1610.1	1109.6
17°	6778.4	6536.2	5808.9	4407.2	2613.0	1534.5	975.8
17.5°	6818.1	6564.4	5819.8	4380.6	2543.2	1454.2	855.4
18°	6853.9	6592.5	5830.5	4355.8	2476.3	1367.7	758.5
18.5°	6892.0	6619.7	5840.0	4329.9	2412.2	1266.0	674.0
19°	6929.2	6647.8	5848.1	4301.8	2346.0	1151.1	605.5
19.5°	6965.4	6675.7	5855.9	4274.7	2282.3	1024.9	547.1
20°	7000.5	6702.4	5862.6	4245.9	2223.0	908.5	496.6
20.5°	7038.7	6730.3	5869.7	4216.2	2163.5	802.6	457.0
21°	7071.0	6756.7	5875.3	4185.6	2104.5	712.9	424.9
21.5°	7106.9	6781.5	5879.9	4154.6	2049.2	637.5	400.5
22°	7142.7	6807.0	5883.5	4122.9	1995.5	576.9	383.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	7177.1	6831.2	5886.0	4091.4	1938.7	524.3	370.1
23°	7211.8	6856.0	5888.5	4059.8	1885.0	480.0	361.5
23.5°	7246.2	6879.3	5890.8	4026.6	1832.6	443.0	356.2
24°	7280.7	6904.1	5892.3	3992.7	1785.6	415.5	353.3
24.5°	7311.7	6926.5	5893.3	3960.6	1731.8	393.6	349.8
25°	7345.7	6950.1	5893.1	3925.6	1662.5	377.8	342.8
25.5°	7379.1	6973.0	5892.7	3889.5	1581.1	367.5	330.3
26°	7411.5	6995.8	5892.3	3854.4	1504.6	360.7	316.0
26.5°	7442.5	7018.1	5889.5	3816.9	1435.2	358.8	307.6
27°	7474.0	7038.0	5887.3	3778.2	1371.6	361.0	299.5
27.5°	7503.3	7056.9	5883.8	3741.5	1308.6	366.2	291.5
28°	7534.4	7077.7	5879.5	3702.0	1250.2	374.4	283.4
28.5°	7559.6	7098.1	5875.2	3660.7	1187.9	384.2	291.2
29°	7590.1	7118.4	5870.4	3621.0	1126.0	395.4	302.5
29.5°	7617.2	7136.9	5864.2	3580.1	1061.6	406.9	317.1
30°	7646.5	7158.2	5857.7	3535.9	1002.1	416.6	331.1
30.5°	7674.2	7176.8	5851.1	3493.6	941.1	421.5	338.1
31°	7701.0	7194.8	5843.4	3450.3	878.2	417.9	342.4
31.5°	7726.8	7212.6	5835.1	3405.5	814.5	407.8	367.9
32°	7752.6	7230.3	5825.4	3360.2	757.4	392.7	612.8
32.5°	7776.6	7247.0	5816.3	3316.2	712.8	376.2	869.4
33°	7801.7	7264.8	5807.0	3268.7	680.3	362.5	1126.1
33.5°	7825.1	7281.3	5797.4	3222.1	649.8	352.5	1382.7
34°	7845.9	7296.1	5786.9	3177.2	619.3	343.5	1639.4
34.5°	7866.6	7309.8	5775.9	3130.0	588.8	335.5	1829.5
35°	7887.8	7324.5	5766.2	3082.6	558.4	331.5	2011.2
35.5°	7907.7	7338.4	5754.0	3035.8	527.9	322.9	2167.9
36°	7925.9	7352.0	5741.9	2990.3	510.7	313.9	2293.4
36.5°	7944.3	7363.9	5729.5	2943.7	495.7	304.4	2374.0
37°	7961.3	7375.5	5717.1	2897.9	483.8	294.5	2407.7
37.5°	7975.4	7385.5	5705.0	2852.8	472.4	294.8	2436.3
38°	7992.4	7396.3	5692.6	2807.4	462.5	296.5	2417.1
38.5°	8007.1	7407.1	5679.5	2761.9	452.3	299.9	2314.5
39°	8020.8	7414.0	5665.6	2715.2	443.0	306.2	2134.0
39.5°	8034.9	7421.6	5652.6	2666.0	434.6	321.4	1968.8
40°	8046.6	7429.4	5637.8	2615.6	428.4	533.0	1797.5
40.5°	8058.5	7435.1	5624.0	2559.7	422.9	749.4	1595.2
41°	8070.8	7441.5	5609.0	2500.2	417.6	965.4	1360.4
41.5°	8083.4	7446.4	5592.9	2438.8	411.7	1181.4	1120.9
42°	8093.1	7451.0	5576.8	2377.3	405.9	1397.3	875.8
42.5°	8105.0	7453.0	5559.9	2311.8	399.4	1565.5	693.8
43°	8114.9	7456.8	5544.0	2245.2	393.4	1655.2	575.2
43.5°	8122.9	7458.6	5526.8	2178.5	387.1	1698.1	492.6
44°	8131.6	7460.3	5508.0	2114.6	380.4	1720.8	428.4
44.5°	8140.3	7460.1	5489.8	2052.5	373.4	1735.3	377.7

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	8149.0	7461.8	5471.0	1992.6	365.5	1716.2	336.8
45.5°	8156.7	7460.8	5450.8	1929.8	357.3	1652.0	311.4
46°	8163.4	7461.4	5430.2	1869.3	349.3	1547.7	286.4
46.5°	8169.4	7459.4	5409.5	1811.2	341.3	1455.5	261.5
47°	8174.2	7457.2	5388.0	1753.4	333.6	1356.5	236.6
47.5°	8178.9	7454.2	5366.5	1696.1	326.1	1261.2	211.8
48°	8182.9	7451.1	5343.5	1641.8	318.1	1173.2	192.2
48.5°	8185.7	7446.8	5321.1	1585.7	309.9	1090.8	171.3
49°	8185.9	7441.8	5297.7	1535.1	301.6	1011.8	150.4
49.5°	8186.3	7435.7	5274.6	1488.2	292.7	937.6	131.6
50°	8186.6	7429.7	5251.0	1442.0	283.7	854.4	111.9
50.5°	8186.9	7422.8	5224.1	1394.8	275.6	772.3	92.6
51°	8187.2	7416.6	5198.1	1352.6	267.3	695.1	72.0
51.5°	8185.2	7408.7	5170.4	1312.4	259.5	619.5	55.0
52°	8184.1	7402.3	5143.7	1273.5	251.8	551.7	42.2
52.5°	8179.2	7393.3	5115.0	1235.8	244.6	494.1	34.6
53°	8176.1	7385.0	5086.7	1198.1	234.3	439.8	31.7
53.5°	8169.2	7376.3	5056.7	1159.3	215.5	383.4	29.2
54°	8166.2	7367.8	5027.3	1116.5	199.8	323.7	26.7
54.5°	8162.0	7358.0	4997.1	1063.6	186.1	267.2	23.9
55°	8156.4	7350.6	4966.1	1003.5	172.2	210.9	21.3
55.5°	8149.4	7341.0	4933.9	938.9	163.7	154.6	19.1
56°	8143.5	7331.0	4900.6	870.3	155.0	98.4	17.0
56.5°	8137.3	7319.5	4868.0	801.6	138.9	42.1	14.4
57°	8129.4	7310.4	4834.4	736.6	118.8	20.9	12.8
57.5°	8121.4	7299.3	4801.5	681.2	107.6	18.4	11.7
58°	8113.7	7287.0	4768.2	642.2	101.6	18.3	10.8
58.5°	8105.6	7276.4	4732.0	613.8	97.9	18.3	9.9
59°	8097.9	7262.9	4695.6	592.8	94.8	18.1	9.3
59.5°	8090.9	7250.3	4660.9	577.7	92.0	17.7	8.8
60°	8082.9	7235.2	4624.6	566.0	89.3	17.3	8.4
60.5°	8076.8	7221.6	4589.7	555.7	86.0	16.6	8.2
61°	8068.0	7207.0	4553.0	545.9	80.6	15.2	8.0
61.5°	8062.0	7193.3	4517.9	536.4	76.1	14.4	7.9
62°	8054.0	7176.0	4484.9	526.5	71.9	13.8	7.8
62.5°	8047.9	7158.3	4450.3	516.3	67.3	13.2	7.7
63°	8040.2	7141.5	4418.4	505.9	61.4	12.5	7.6
63.5°	8034.8	7124.6	4385.3	495.7	54.6	12.0	7.5
64°	8027.1	7104.6	4352.4	485.6	49.4	11.4	7.5
64.5°	8019.1	7086.5	4318.2	475.6	45.6	10.8	7.5
65°	8011.1	7067.9	4284.2	465.1	42.2	10.3	7.5
65.5°	8004.2	7047.8	4249.9	453.9	39.1	9.8	7.5
66°	7997.1	7027.1	4214.6	442.7	35.7	9.3	7.6
66.5°	7989.7	7011.4	4178.3	432.2	32.3	8.8	7.8
67°	7982.2	6992.9	4139.5	421.9	28.6	8.4	8.0

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	7976.0	6973.9	4101.5	411.4	24.7	8.0	8.1
68°	7971.0	6957.7	4062.2	400.6	20.8	7.6	8.3
68.5°	7965.1	6941.8	4021.5	388.9	16.8	7.3	8.5
69°	7959.0	6925.0	3979.8	377.0	13.0	7.0	8.7
69.5°	7954.0	6910.7	3936.0	366.1	9.8	6.8	9.0
70°	7948.9	6896.3	3891.6	355.6	8.2	6.6	9.2
70.5°	7942.0	6881.8	3847.0	344.8	7.7	6.4	9.4
71°	7939.1	6871.1	3797.8	333.3	7.5	6.4	9.6
71.5°	7935.9	6859.7	3748.7	322.1	7.4	6.4	9.8
72°	7933.0	6849.4	3698.7	311.3	7.3	6.5	9.9
72.5°	7932.0	6839.2	3650.9	299.1	6.8	6.5	10.2
73°	7929.9	6831.9	3603.4	286.9	6.5	6.6	10.4
73.5°	7927.0	6824.5	3557.0	274.7	6.3	6.6	10.7
74°	7924.8	6816.5	3508.9	262.4	6.3	6.6	11.0
74.5°	7920.9	6808.9	3459.7	249.2	6.3	6.8	11.3
75°	7917.9	6799.0	3411.1	235.2	6.3	7.0	11.6
75.5°	7916.6	6792.4	3358.1	221.0	6.3	7.3	11.9
76°	7911.8	6787.0	3296.0	206.7	6.3	7.5	12.2
76.5°	7907.0	6782.4	3231.8	192.7	6.3	7.7	12.4
77°	7904.0	6778.6	3168.1	178.9	6.3	8.0	12.7
77.5°	7898.2	6778.0	3102.3	165.0	6.4	8.2	12.9
78°	7890.0	6775.4	3038.6	151.6	6.4	8.4	13.1
78.5°	7881.1	6769.1	2978.5	139.0	6.4	8.6	13.4
79°	7869.5	6759.6	2923.5	125.9	6.5	8.9	13.6
79.5°	7853.2	6749.7	2870.2	113.3	6.6	9.1	13.9
80°	7833.6	6743.0	2816.3	100.8	6.7	9.3	14.2
80.5°	7807.4	6735.9	2762.0	89.3	6.7	9.5	14.4
81°	7776.8	6729.4	2712.8	79.3	6.8	9.7	14.7
81.5°	7738.2	6722.2	2664.8	70.7	6.9	10.0	14.9
82°	7697.6	6714.0	2618.5	63.6	7.0	10.2	15.2
82.5°	7650.9	6708.5	2574.1	56.8	7.1	10.4	15.4
83°	7597.7	6700.3	2524.4	51.2	7.2	10.7	15.6
83.5°	7543.2	6690.8	2475.6	45.9	7.3	10.9	15.9
84°	7492.5	6681.9	2427.1	41.0	7.4	11.1	16.1
84.5°	7436.3	6671.6	2378.4	36.6	7.5	11.3	16.3
85°	7380.7	6655.7	2332.7	32.7	7.7	11.6	16.6
85.5°	7331.0	6643.4	2291.9	29.2	7.8	11.8	16.8
86°	7277.0	6638.7	2254.7	25.8	7.9	12.0	17.1
86.5°	7229.4	6655.8	2224.1	22.8	8.1	12.3	17.3
87°	7192.9	6695.0	2200.1	20.0	8.2	12.5	17.5
87.5°	7176.5	6756.9	2190.8	17.3	8.4	12.7	17.7
88°	7177.5	6850.0	2196.4	14.8	8.6	13.0	17.9
88.5°	7203.6	6989.8	2219.7	12.7	8.7	13.2	18.1
89°	7251.0	7147.4	2265.0	11.0	8.9	13.4	18.3
89.5°	7339.1	7333.6	2334.6	9.5	9.0	13.6	18.4

REPORT NUMBER: P1197235

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	7474.7	7506.3	2410.3	7.9	9.2	13.8	18.6
90.5°	7654.7	7629.4	2492.7	7.5	9.4	14.0	18.8
91°	7892.0	7631.7	2572.9	7.4	9.5	14.3	19.0
91.5°	8116.6	7477.8	2635.8	7.3	9.7	14.5	19.2
92°	8205.7	7086.3	2651.6	7.1	9.9	14.7	19.4
92.5°	8114.4	6506.1	2614.9	7.0	10.0	14.9	19.6
93°	7835.2	5811.3	2512.0	6.9	10.1	15.1	19.7
93.5°	7299.9	5179.1	2336.8	6.8	10.3	15.3	19.9
94°	6765.7	4664.3	2067.8	6.7	10.4	15.4	20.0
94.5°	6233.1	4316.9	1745.2	6.6	10.5	15.6	20.1
95°	5701.6	4062.8	1416.7	6.6	10.6	15.7	20.3
95.5°	5175.2	3965.0	1123.9	6.5	10.8	15.9	20.4
96°	4774.5	4082.0	914.9	6.4	10.9	16.0	20.5
96.5°	4478.8	4386.8	811.9	6.4	11.0	16.2	20.6
97°	4312.7	4679.9	708.8	6.3	11.2	16.4	20.8
97.5°	4365.7	4764.1	605.7	6.2	11.3	16.6	20.9
98°	4581.0	4385.0	502.6	6.2	11.5	16.8	21.0
98.5°	4815.7	3550.9	399.9	6.2	11.6	17.0	21.2
99°	4810.6	2561.5	383.9	6.1	11.7	17.2	21.3
99.5°	4323.0	1982.6	385.4	6.1	11.9	17.4	21.4
100°	3300.9	1425.6	369.8	6.0	12.0	17.5	21.6
100.5°	2695.3	868.7	353.1	5.9	12.1	17.7	21.6
101°	2089.7	311.7	331.9	5.9	12.2	17.9	21.7
101.5°	1489.5	287.9	296.1	5.8	12.3	18.0	21.8
102°	889.3	270.4	283.8	5.8	12.4	18.2	21.9
102.5°	305.5	252.8	269.9	5.7	12.5	18.3	21.9
103°	289.5	235.0	233.2	5.7	12.6	18.4	22.0
103.5°	288.0	239.4	140.5	5.7	12.7	18.5	22.0
104°	300.2	233.4	105.1	5.7	12.8	18.6	22.1
104.5°	312.9	217.8	88.9	5.7	12.8	18.7	22.1
105°	319.5	196.5	74.7	5.7	12.9	18.8	22.2
105.5°	312.8	176.2	63.6	5.7	13.1	19.0	22.2
106°	279.9	153.7	53.3	5.8	13.2	19.1	22.3
106.5°	248.1	137.2	44.6	5.8	13.2	19.3	22.4
107°	225.7	125.7	36.5	5.8	13.3	19.4	22.4
107.5°	202.7	117.9	29.5	5.8	13.4	19.6	22.5
108°	183.5	113.5	24.1	5.8	13.6	19.7	22.6
108.5°	172.3	110.7	19.6	5.8	13.7	19.8	22.6
109°	167.7	109.9	16.2	5.9	13.8	19.9	22.7
109.5°	167.8	113.2	14.4	6.0	13.9	20.0	22.7
110°	169.8	118.2	13.0	6.0	14.0	20.1	22.8
110.5°	170.1	122.2	11.7	6.1	14.0	20.1	22.8
111°	168.3	124.3	10.4	6.2	14.1	20.2	22.8
111.5°	166.4	123.3	9.2	6.3	14.2	20.3	22.9
112°	163.0	119.8	8.2	6.4	14.3	20.4	22.9

REPORT NUMBER: P1197235

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	155.1	114.9	7.4	6.5	14.4	20.4	22.9
113°	147.7	102.8	6.7	6.5	14.4	20.5	22.9
113.5°	137.8	80.1	6.2	6.6	14.5	20.5	22.9
114°	123.9	53.3	5.7	6.7	14.6	20.6	23.0
114.5°	106.9	29.5	5.2	6.8	14.7	20.7	23.0
115°	88.0	18.6	4.9	6.9	14.8	20.7	23.0
115.5°	71.1	14.4	4.6	7.0	14.8	20.8	23.1
116°	53.8	11.1	4.4	7.1	14.9	20.9	23.1
116.5°	33.8	8.2	4.1	7.2	15.0	20.9	23.1
117°	20.3	5.8	3.8	7.2	15.1	21.0	23.1
117.5°	14.5	4.3	3.6	7.3	15.1	21.0	23.1
118°	10.8	3.3	3.4	7.4	15.2	21.0	23.1
118.5°	7.9	2.7	3.2	7.5	15.3	21.1	23.1
119°	5.7	2.3	3.0	7.6	15.3	21.1	23.2
119.5°	4.4	2.1	2.9	7.7	15.4	21.1	23.2
120°	3.5	2.0	2.8	7.8	15.5	21.1	23.2
120.5°	2.8	1.9	2.7	7.9	15.5	21.2	23.2
121°	2.4	1.8	2.7	8.0	15.6	21.2	23.2
121.5°	2.2	1.8	2.7	8.1	15.6	21.3	23.2
122°	2.1	1.7	2.7	8.2	15.7	21.3	23.2
122.5°	2.0	1.7	2.7	8.3	15.7	21.3	23.2
123°	2.0	1.7	2.7	8.4	15.8	21.4	23.2
123.5°	1.9	1.7	2.8	8.5	15.8	21.4	23.2
124°	1.9	1.7	2.8	8.5	15.9	21.4	23.2
124.5°	1.9	1.7	2.9	8.6	15.9	21.4	23.2
125°	1.8	1.7	3.0	8.7	16.0	21.4	23.2
125.5°	1.8	1.6	3.1	8.8	16.0	21.5	23.2
126°	1.8	1.6	3.2	8.9	16.1	21.5	23.2
126.5°	1.8	1.6	3.2	9.0	16.1	21.5	23.2
127°	1.8	1.6	3.3	9.1	16.2	21.5	23.2
127.5°	1.8	1.5	3.4	9.2	16.3	21.5	23.2
128°	1.7	1.5	3.5	9.3	16.3	21.5	23.2
128.5°	1.7	1.5	3.6	9.4	16.4	21.5	23.2
129°	1.6	1.5	3.7	9.5	16.4	21.5	23.1
129.5°	1.5	1.5	3.8	9.6	16.5	21.5	23.1
130°	1.5	1.5	3.9	9.7	16.5	21.5	23.1
130.5°	1.4	1.5	4.0	9.8	16.6	21.5	23.0
131°	1.4	1.5	4.1	9.9	16.6	21.5	23.0
131.5°	1.4	1.5	4.2	10.0	16.7	21.5	23.0
132°	1.4	1.5	4.3	10.0	16.7	21.5	22.9
132.5°	1.4	1.5	4.4	10.1	16.7	21.5	22.9
133°	1.4	1.5	4.5	10.2	16.8	21.5	22.8
133.5°	1.4	1.6	4.7	10.3	16.8	21.5	22.8
134°	1.4	1.6	4.8	10.4	16.9	21.5	22.8
134.5°	1.4	1.7	4.9	10.5	16.9	21.5	22.7

REPORT NUMBER: P1197235

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	1.4	1.7	5.0	10.6	17.0	21.5	22.7
135.5°	1.4	1.8	5.1	10.7	17.0	21.5	22.6
136°	1.4	1.8	5.2	10.8	17.1	21.5	22.6
136.5°	1.5	1.9	5.3	10.9	17.1	21.5	22.6
137°	1.5	1.9	5.4	11.0	17.1	21.5	22.6
137.5°	1.5	2.0	5.6	11.0	17.2	21.5	22.6
138°	1.6	2.0	5.7	11.1	17.2	21.5	22.5
138.5°	1.6	2.1	5.8	11.2	17.3	21.5	22.5
139°	1.7	2.2	5.9	11.3	17.3	21.4	22.5
139.5°	1.7	2.3	6.0	11.4	17.3	21.4	22.5
140°	1.8	2.3	6.1	11.5	17.4	21.4	22.5
140.5°	1.8	2.4	6.3	11.6	17.4	21.4	22.4
141°	1.9	2.5	6.4	11.6	17.4	21.4	22.3
141.5°	1.9	2.6	6.5	11.7	17.5	21.4	22.3
142°	2.0	2.6	6.6	11.8	17.5	21.4	22.2
142.5°	2.0	2.7	6.7	11.9	17.5	21.3	22.1
143°	2.1	2.8	6.8	12.0	17.5	21.3	22.0
143.5°	2.1	2.9	7.0	12.1	17.6	21.3	21.9
144°	2.2	3.0	7.1	12.1	17.6	21.2	21.7
144.5°	2.2	3.1	7.2	12.2	17.6	21.2	21.6
145°	2.3	3.2	7.3	12.3	17.6	21.1	21.5
145.5°	2.3	3.3	7.4	12.4	17.6	21.1	21.4
146°	2.4	3.4	7.5	12.5	17.6	21.0	21.3
146.5°	2.4	3.5	7.6	12.5	17.6	21.0	21.2
147°	2.5	3.6	7.8	12.6	17.6	20.9	21.1
147.5°	2.5	3.7	7.9	12.7	17.6	20.9	21.0
148°	2.6	3.8	8.0	12.8	17.7	20.8	20.9
148.5°	2.6	3.9	8.1	12.9	17.7	20.8	20.7
149°	2.7	4.0	8.2	12.9	17.7	20.7	20.6
149.5°	2.7	4.1	8.3	13.0	17.7	20.7	20.6
150°	2.8	4.3	8.4	13.1	17.7	20.7	20.5
150.5°	2.9	4.4	8.6	13.1	17.7	20.6	20.4
151°	3.0	4.5	8.7	13.2	17.7	20.6	20.3
151.5°	3.0	4.6	8.8	13.2	17.8	20.6	20.2
152°	3.1	4.7	8.9	13.3	17.8	20.5	20.1
152.5°	3.2	4.9	9.0	13.4	17.8	20.5	19.9
153°	3.3	5.0	9.2	13.5	17.8	20.5	19.8
153.5°	3.4	5.1	9.3	13.6	17.9	20.5	19.7
154°	3.5	5.3	9.4	13.6	17.9	20.4	19.6
154.5°	3.6	5.4	9.5	13.7	17.9	20.4	19.4
155°	3.7	5.6	9.7	13.8	17.9	20.4	19.3
155.5°	3.9	5.7	9.8	13.8	17.9	20.3	19.1
156°	4.0	5.8	9.9	13.9	17.9	20.3	19.0
156.5°	4.1	6.0	10.0	14.0	17.9	20.2	18.9
157°	4.3	6.1	10.1	14.1	17.9	20.1	18.7

REPORT NUMBER: P1197235

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

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	4.4	6.3	10.3	14.1	17.9	20.0	18.6
158°	4.5	6.4	10.4	14.2	17.9	20.0	18.5
158.5°	4.7	6.6	10.5	14.2	17.9	19.9	18.4
159°	4.9	6.8	10.6	14.3	17.9	19.8	18.2
159.5°	5.0	7.0	10.7	14.4	17.9	19.7	18.1
160°	5.2	7.1	10.8	14.4	17.8	19.7	17.9
160.5°	5.3	7.3	11.0	14.5	17.8	19.6	17.8
161°	5.5	7.5	11.1	14.6	17.8	19.5	17.6
161.5°	5.6	7.6	11.2	14.6	17.8	19.4	17.5
162°	5.8	7.8	11.3	14.7	17.8	19.3	17.3
162.5°	5.9	8.0	11.4	14.7	17.7	19.2	17.1
163°	6.0	8.1	11.5	14.8	17.7	19.2	16.9
163.5°	6.2	8.3	11.7	14.8	17.7	19.1	16.7
164°	6.3	8.5	11.8	14.9	17.7	19.0	16.5
164.5°	6.4	8.6	11.9	14.9	17.7	18.9	16.3
165°	6.5	8.8	12.0	15.0	17.7	18.8	16.1
165.5°	6.7	9.0	12.1	15.0	17.7	18.7	16.0
166°	6.8	9.1	12.2	15.1	17.7	18.7	15.8
166.5°	6.9	9.3	12.3	15.2	17.7	18.6	15.7
167°	7.0	9.4	12.4	15.2	17.6	18.5	15.5
167.5°	7.2	9.6	12.5	15.3	17.6	18.4	15.4
168°	7.3	9.7	12.6	15.3	17.6	18.3	15.2
168.5°	7.5	9.9	12.8	15.4	17.5	18.2	15.0
169°	7.6	10.0	12.9	15.4	17.5	18.2	14.9
169.5°	7.7	10.2	13.0	15.5	17.5	18.1	14.7
170°	7.9	10.3	13.1	15.5	17.5	18.0	14.5
170.5°	8.0	10.5	13.2	15.6	17.4	17.9	14.3
171°	8.1	10.6	13.3	15.6	17.4	17.8	14.1
171.5°	8.3	10.7	13.4	15.6	17.3	17.6	13.9
172°	8.4	10.8	13.5	15.6	17.3	17.5	13.7
172.5°	8.5	11.0	13.6	15.7	17.2	17.4	13.5
173°	8.6	11.1	13.7	15.7	17.2	17.3	13.3
173.5°	8.8	11.3	13.8	15.8	17.1	17.1	13.1
174°	8.9	11.4	13.9	15.8	17.1	17.0	12.9
174.5°	9.0	11.5	14.0	15.8	17.0	16.9	12.7
175°	9.2	11.6	14.1	15.8	16.9	16.8	12.5
175.5°	9.3	11.8	14.2	15.9	16.9	16.7	12.3
176°	9.4	11.9	14.3	15.9	16.9	16.6	12.1
176.5°	9.6	12.0	14.3	16.0	16.8	16.5	11.9
177°	9.7	12.2	14.4	16.0	16.7	16.4	11.7
177.5°	9.9	12.3	14.5	16.0	16.7	16.3	11.6
178°	10.0	12.5	14.6	16.0	16.6	16.2	11.4
178.5°	10.2	12.6	14.7	16.0	16.5	16.0	11.2
179°	10.4	12.7	14.8	16.0	16.5	15.9	11.1
179.5°	10.6	12.9	14.9	16.0	16.4	15.8	10.9



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	10.7	10.7	10.7	10.7	10.7	10.7	10.7

(END OF REPORT)