

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: P1197247

Luminaire Tested: AWPS150S-BZ-BZ-HIGH-5000K-POSITION 45

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197247
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-5000K-POSITION 45
Description: AWP Architectural
Light Source: 80 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 18720 (1 lamp)
Luminaire Lumens: 20128.1 lumens
Efficiency: 107.5%
Efficacy: 134.1 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): 150.1
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

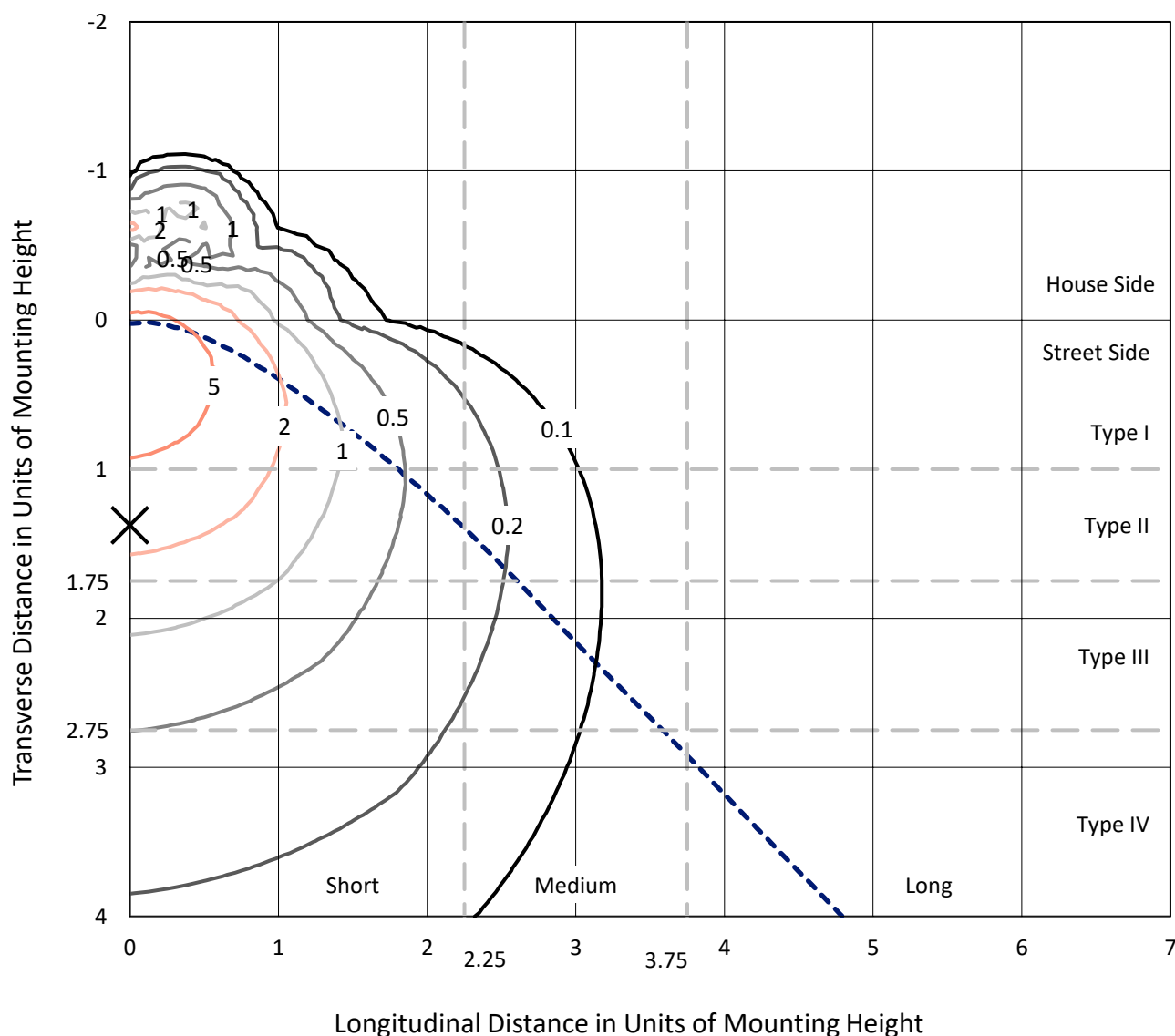
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Iso-Footcandle Lines of Horizontal Illumination

× Max cd

--- 1/2 Max cd

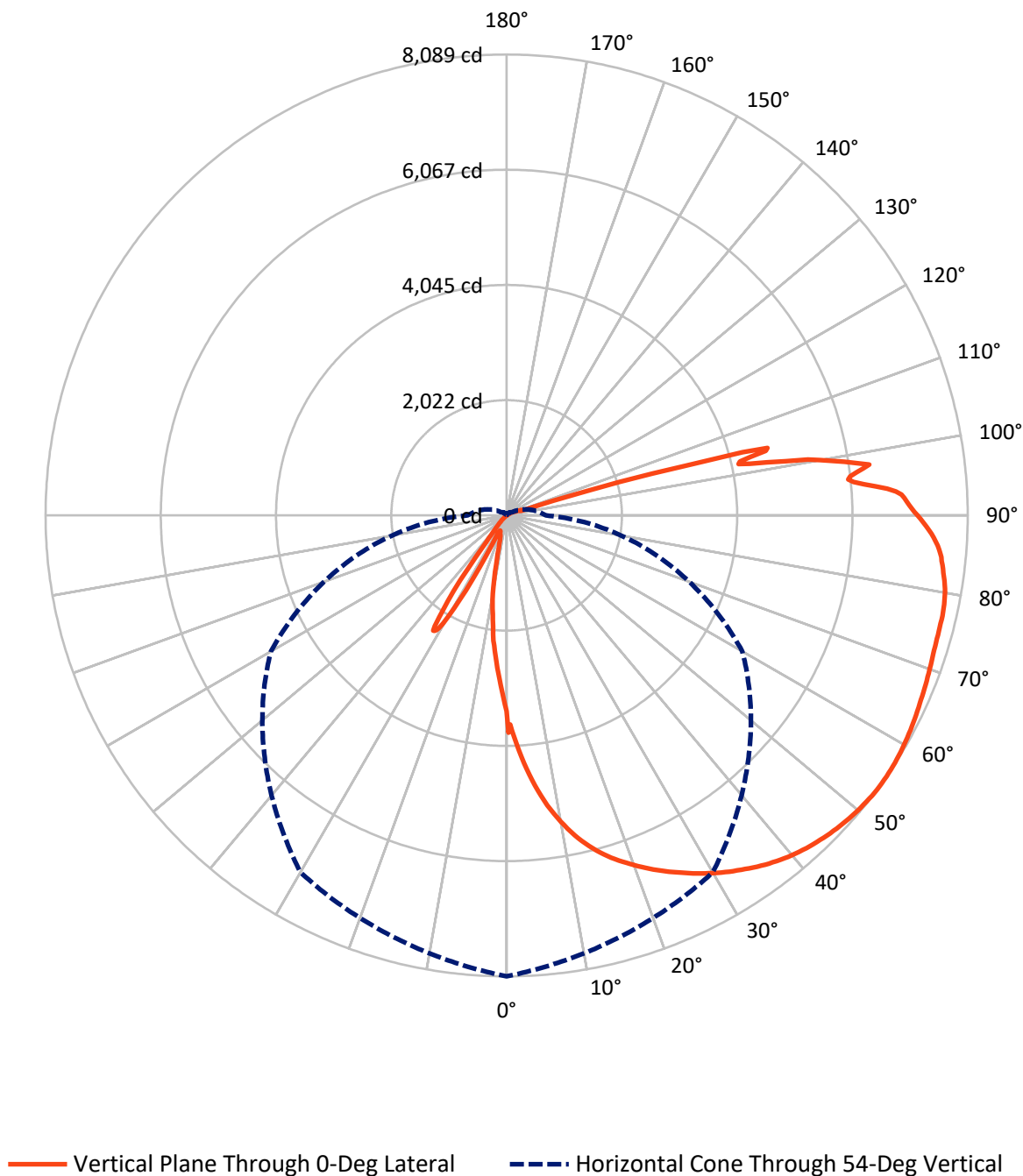


Based on 25 foot mounting height. Maximum calculated value = 8.8 fc
 Type IV - Short - Non-Cutoff

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Luminous Intensity Polar Plot



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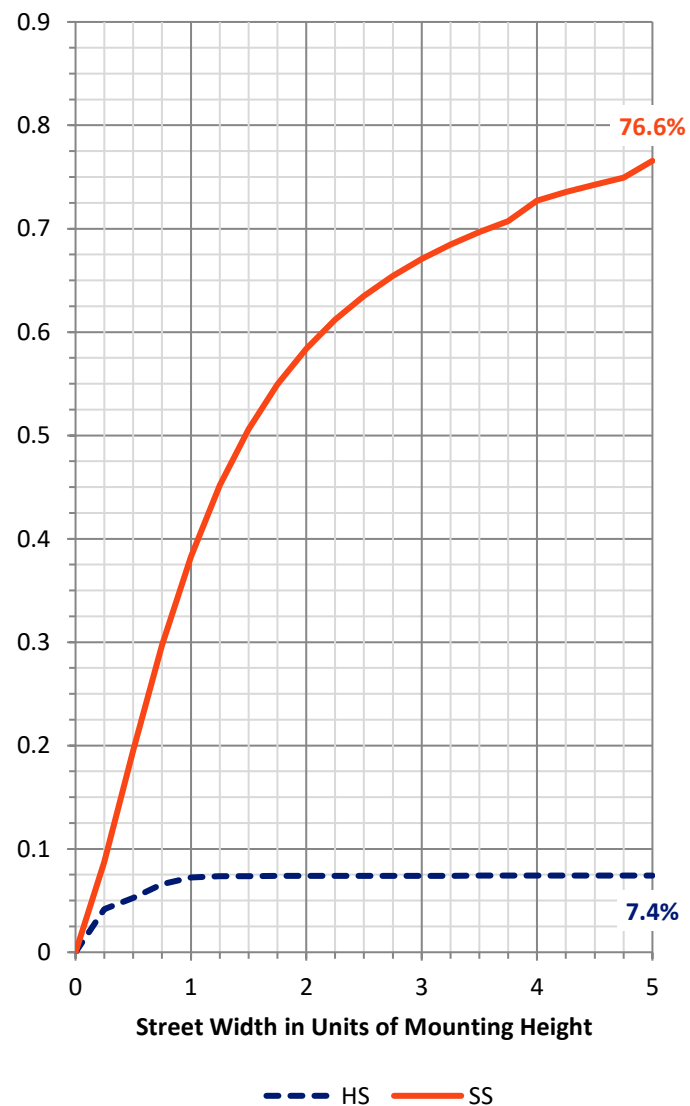
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1399.2	50.8	1450.1
	% Lamp	7.5	0.3	7.7
Street Side	Lumens	16074.7	2603.3	18678.0
	% Lamp	85.9	13.9	99.8
Total	Lumens	17473.9	2654.1	20128.1
	% Lamp	93.3	14.2	107.5

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	359.7	1.8	1.9
10°-20°	999.9	5.0	5.3
20°-30°	1552.9	7.7	8.3
30°-40°	2161.2	10.7	11.5
40°-50°	2488.0	12.4	13.3
50°-60°	2516.9	12.5	13.4
60°-70°	2576.0	12.8	13.8
70°-80°	2512.9	12.5	13.4
80°-90°	2306.4	11.5	12.3
90°-100°	1924.4	9.6	10.3
100°-110°	655.3	3.3	3.5
110°-120°	38.6	0.2	0.2
120°-130°	10.0	0.0	0.1
130°-140°	8.3	0.0	0.0
140°-150°	7.1	0.0	0.0
150°-160°	5.6	0.0	0.0
160°-170°	3.6	0.0	0.0
170°-180°	1.2	0.0	0.0
0°-90°	17473.9	86.8	93.3
0°-180°	20128.1	100.0	107.5

Coefficient of Utilization



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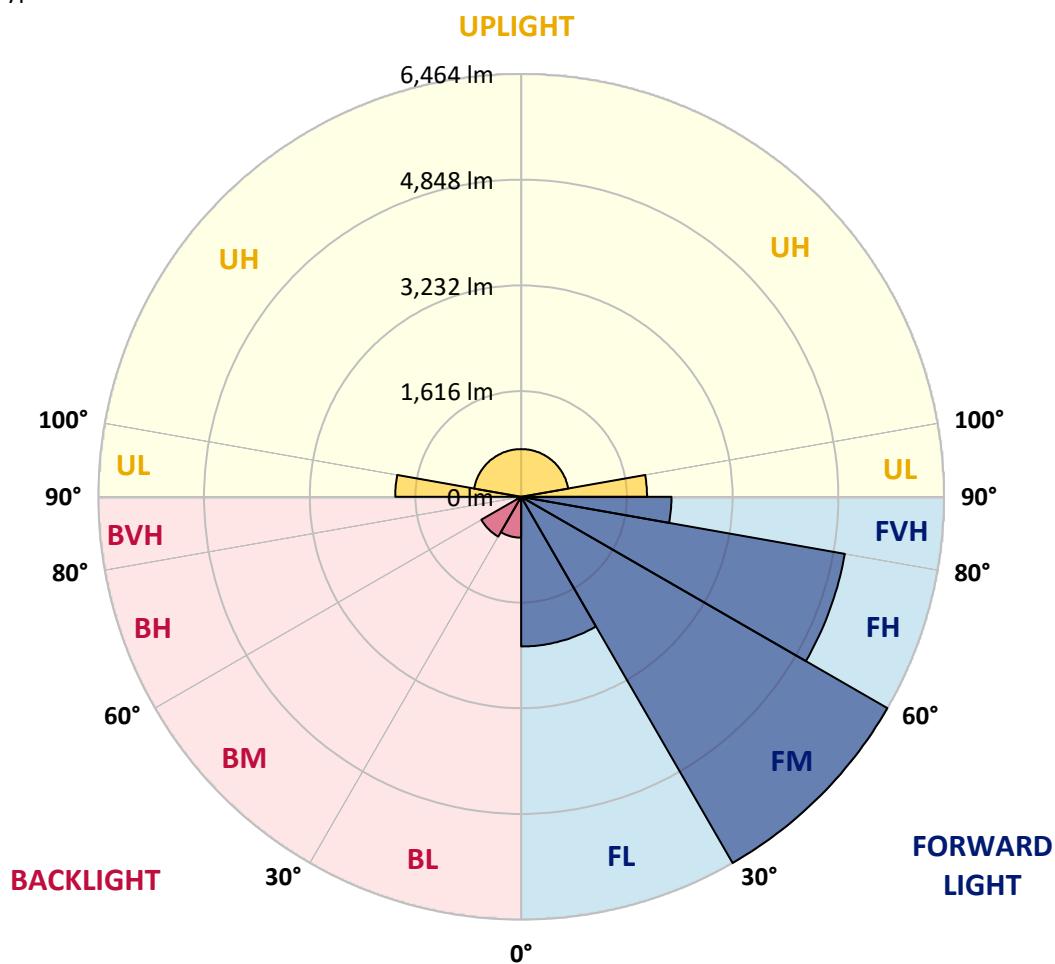
CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-5000K-POSITION 45

LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	2288.1	12.2			
FM	(30°-60°)	6464.4	34.5			
FH	(60°-80°)	5024.6	26.8			G3/7500
FVH	(80°-90°)	2297.5	12.3			G5
BL	(0°-30°)	624.3	3.3	B2/1000		
BM	(30°-60°)	701.7	3.7	B1/1000		
BH	(60°-80°)	64.3	0.3	B0/110		G0/110
BVH	(80°-90°)	8.9	0.0			G0/10
UL	(90°-100°)	1924.4	10.3		U5	
UH	(100°-180°)	729.7	3.9		U4/1000	
Trapped Light		-1408.1	-7.5			

BUG Rating: B2-U5-G5

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2	3813.2
0.5°	3669.1	3821.4	3938.2	3962.7	3885.4	3728.0	3432.7
1°	3787.1	3923.0	3994.7	3962.1	3828.1	3623.8	3317.7
1.5°	3904.7	4020.6	4050.4	3959.0	3770.2	3519.0	3202.5
2°	4017.4	4116.4	4106.3	3957.5	3707.8	3423.4	3088.2
2.5°	4129.2	4213.7	4161.6	3956.1	3647.6	3319.9	2978.9
3°	4242.4	4307.0	4212.7	3952.3	3586.1	3218.8	2875.6
3.5°	4353.3	4399.1	4263.5	3946.1	3523.2	3120.3	2777.0
4°	4455.7	4493.7	4316.6	3941.4	3460.7	3027.8	2678.5
4.5°	4563.9	4583.1	4366.1	3936.2	3398.9	2931.9	2580.0
5°	4663.6	4667.7	4412.3	3929.3	3335.3	2827.0	2481.5
5.5°	4766.3	4753.0	4461.4	3922.4	3273.9	2742.6	2383.1
6°	4864.2	4836.5	4507.9	3914.3	3210.1	2658.5	2292.9
6.5°	4956.4	4914.0	4553.9	3904.4	3148.5	2574.4	2210.8
7°	5045.5	4993.4	4598.3	3895.6	3084.8	2490.0	2100.6
7.5°	5135.1	5066.9	4642.8	3886.1	3023.6	2406.0	1964.2
8°	5220.4	5138.2	4682.5	3875.0	2961.0	2325.9	1846.0
8.5°	5300.5	5208.2	4723.6	3863.3	2900.0	2249.9	1742.8
9°	5379.3	5276.0	4762.0	3851.7	2838.1	2175.9	1654.7
9.5°	5453.6	5341.7	4801.0	3838.5	2774.0	2102.6	1574.0
10°	5524.7	5405.3	4836.4	3825.5	2712.5	2004.4	1489.1
10.5°	5600.4	5465.7	4873.1	3811.0	2650.4	1888.5	1393.1
11°	5670.3	5525.5	4907.9	3796.0	2587.9	1783.8	1278.5
11.5°	5737.6	5584.4	4940.9	3781.0	2528.9	1692.3	1143.0
12°	5801.6	5641.3	4972.1	3764.6	2470.1	1614.4	1008.1
12.5°	5863.4	5693.2	5004.0	3747.4	2410.5	1540.2	885.2
13°	5921.1	5746.0	5034.6	3728.6	2352.4	1464.9	781.9
13.5°	5978.7	5795.2	5063.2	3709.8	2298.0	1384.7	694.8
14°	6034.3	5843.1	5090.1	3689.7	2240.7	1290.5	624.4
14.5°	6086.8	5889.5	5116.6	3669.2	2184.9	1178.5	562.3
15°	6136.9	5933.0	5141.7	3647.9	2131.1	1060.4	510.7
15.5°	6188.3	5976.0	5167.0	3625.4	2076.5	943.4	467.2
16°	6236.4	6018.1	5190.0	3602.9	2023.4	836.1	433.7
16.5°	6279.8	6057.2	5213.3	3581.9	1971.6	741.0	407.1
17°	6325.8	6095.3	5234.3	3558.1	1921.3	663.8	388.3
17.5°	6369.9	6131.7	5254.2	3534.0	1864.0	600.8	374.4
18°	6408.0	6166.4	5273.3	3511.0	1790.8	544.2	364.8
18.5°	6449.1	6199.4	5290.5	3485.7	1714.4	497.7	359.1
19°	6490.6	6227.0	5307.2	3457.0	1644.3	458.6	355.8
19.5°	6531.3	6254.4	5323.2	3429.8	1578.9	425.3	353.1
20°	6569.6	6281.8	5338.5	3402.5	1515.0	399.4	347.3
20.5°	6609.9	6309.1	5352.0	3375.9	1458.0	379.1	336.3
21°	6648.6	6336.5	5365.2	3347.7	1404.6	365.2	321.4
21.5°	6686.6	6364.2	5377.6	3320.2	1351.2	355.8	307.3
22°	6725.1	6387.6	5389.1	3291.1	1294.1	350.9	302.0

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	6762.4	6415.2	5399.8	3260.7	1234.8	350.1	296.9
23°	6800.2	6441.9	5410.0	3232.1	1170.4	352.8	291.7
23.5°	6837.3	6467.1	5418.6	3200.9	1100.3	357.6	286.7
24°	6872.9	6493.4	5426.7	3169.9	1027.9	364.5	296.4
24.5°	6906.7	6518.9	5432.9	3138.2	948.6	373.1	309.5
25°	6942.2	6543.9	5439.2	3106.4	871.5	383.3	322.4
25.5°	6977.0	6569.8	5444.3	3073.3	801.1	390.8	329.4
26°	7011.4	6596.8	5449.2	3040.6	738.7	392.6	330.6
26.5°	7046.3	6619.0	5452.9	3007.4	685.7	390.5	351.1
27°	7082.5	6642.4	5455.5	2971.4	647.2	386.8	576.9
27.5°	7115.7	6665.3	5456.3	2938.3	621.6	376.7	807.0
28°	7150.2	6688.1	5458.1	2903.8	604.5	364.2	1037.1
28.5°	7182.9	6712.1	5458.9	2864.0	587.4	355.0	1267.1
29°	7215.4	6733.7	5457.8	2829.8	570.4	348.1	1497.3
29.5°	7247.1	6757.0	5456.7	2796.6	553.5	344.0	1673.5
30°	7279.2	6778.7	5453.8	2758.6	536.8	341.9	1865.1
30.5°	7312.7	6801.1	5451.0	2718.9	525.6	342.4	2051.7
31°	7342.2	6820.9	5446.9	2683.9	517.6	339.7	2195.5
31.5°	7372.0	6842.3	5443.0	2647.9	510.5	336.8	2304.3
32°	7400.6	6861.8	5437.8	2608.0	497.0	333.0	2359.2
32.5°	7429.8	6879.2	5432.1	2573.0	478.6	328.7	2391.0
33°	7459.3	6899.2	5426.1	2536.5	460.4	324.1	2396.4
33.5°	7486.8	6919.0	5420.4	2497.6	447.9	328.6	2315.2
34°	7514.6	6937.7	5412.9	2460.6	438.7	339.6	2140.5
34.5°	7543.7	6956.6	5405.0	2426.6	431.2	363.8	1985.6
35°	7571.0	6974.9	5397.2	2391.3	427.5	564.2	1820.7
35.5°	7598.1	6992.3	5389.5	2356.6	424.3	772.0	1621.2
36°	7624.3	7008.3	5381.1	2327.0	421.5	979.4	1395.8
36.5°	7649.0	7026.3	5372.5	2299.0	418.9	1186.5	1158.4
37°	7673.4	7043.9	5363.3	2271.1	416.4	1393.6	909.0
37.5°	7697.7	7059.0	5354.2	2244.5	413.0	1558.9	716.3
38°	7720.7	7074.9	5343.8	2217.9	408.4	1672.1	586.2
38.5°	7742.7	7092.2	5333.1	2184.3	403.9	1739.4	501.3
39°	7764.2	7105.1	5321.7	2143.3	399.0	1770.3	437.8
39.5°	7785.0	7117.9	5309.6	2092.8	394.4	1784.1	385.0
40°	7804.9	7132.7	5296.0	2037.2	390.0	1802.2	342.6
40.5°	7822.5	7144.9	5283.2	1982.0	385.3	1791.7	316.9
41°	7840.5	7156.9	5269.4	1930.8	379.7	1733.0	291.6
41.5°	7858.5	7169.5	5255.0	1878.6	372.9	1625.3	266.5
42°	7872.7	7180.2	5241.5	1829.7	365.7	1521.6	241.5
42.5°	7889.1	7191.1	5228.0	1783.7	358.0	1416.7	216.4
43°	7903.7	7200.9	5213.8	1740.2	349.9	1320.1	197.2
43.5°	7917.1	7209.2	5198.8	1696.9	341.7	1228.2	176.4
44°	7932.1	7217.2	5185.0	1653.2	333.4	1143.9	154.8
44.5°	7945.2	7224.5	5168.4	1612.1	324.7	1063.2	136.1

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	7958.4	7231.7	5152.6	1572.3	316.2	982.0	117.2
45.5°	7969.0	7237.6	5136.3	1535.3	307.7	891.7	97.2
46°	7981.6	7242.0	5119.8	1499.9	298.9	798.3	76.6
46.5°	7993.1	7247.3	5101.2	1465.2	289.8	709.6	59.5
47°	8003.3	7250.0	5082.4	1429.9	281.4	632.4	46.1
47.5°	8013.6	7252.5	5063.5	1395.3	273.0	565.2	37.9
48°	8023.5	7255.9	5043.6	1359.9	264.9	504.7	34.4
48.5°	8032.2	7256.7	5023.5	1322.7	249.9	448.9	31.8
49°	8040.3	7258.2	5002.8	1281.1	231.3	396.9	29.1
49.5°	8048.8	7258.8	4982.1	1235.7	218.2	349.5	26.2
50°	8056.2	7257.5	4961.4	1187.6	207.6	301.3	23.3
50.5°	8063.2	7257.2	4939.1	1131.8	194.9	252.6	20.7
51°	8069.5	7257.7	4916.3	1071.9	185.6	204.0	18.6
51.5°	8075.4	7254.7	4893.6	1005.9	177.6	155.3	16.0
52°	8080.0	7250.5	4870.5	935.9	166.6	106.6	13.3
52.5°	8082.8	7248.1	4846.7	867.8	147.4	67.8	11.9
53°	8086.4	7243.0	4823.5	801.1	131.0	28.3	10.9
53.5°	8087.3	7238.1	4799.6	738.1	120.8	20.8	9.9
54°	8089.1	7232.8	4774.5	686.3	114.7	19.7	9.1
54.5°	8088.0	7226.9	4749.8	645.3	110.2	19.4	8.5
55°	8087.8	7218.8	4724.7	610.9	106.3	18.9	8.1
55.5°	8086.8	7211.6	4697.7	582.0	103.1	18.4	7.8
56°	8084.6	7203.6	4670.7	559.2	99.9	18.0	7.6
56.5°	8080.8	7194.7	4642.9	540.3	96.5	17.3	7.5
57°	8078.4	7187.0	4613.8	526.2	92.0	16.4	7.4
57.5°	8072.7	7178.0	4584.9	515.1	88.1	14.8	7.2
58°	8068.0	7167.9	4556.2	507.4	84.3	13.8	7.1
58.5°	8063.3	7160.5	4527.2	501.9	80.4	13.0	7.0
59°	8058.0	7150.9	4498.3	498.1	76.0	12.3	6.9
59.5°	8051.4	7139.9	4469.3	495.2	70.8	11.5	6.9
60°	8045.5	7131.6	4440.4	491.5	65.2	10.9	6.9
60.5°	8038.6	7122.5	4408.8	487.1	61.4	10.3	6.9
61°	8030.8	7110.8	4377.6	483.3	58.3	9.8	7.0
61.5°	8023.2	7099.8	4346.8	479.3	55.4	9.3	7.2
62°	8014.7	7089.8	4313.3	475.0	52.4	8.8	7.3
62.5°	8007.5	7077.9	4278.9	470.9	49.1	8.4	7.5
63°	7999.2	7065.9	4248.4	465.0	45.3	8.0	7.6
63.5°	7991.1	7054.9	4215.0	457.7	41.0	7.6	7.8
64°	7983.2	7040.4	4182.6	449.6	36.3	7.3	8.0
64.5°	7974.6	7028.0	4151.8	440.1	31.5	7.0	8.2
65°	7965.2	7013.7	4122.4	429.8	26.5	6.7	8.4
65.5°	7958.2	6998.7	4092.7	419.5	22.0	6.5	8.7
66°	7949.4	6984.1	4063.7	410.5	17.7	6.4	8.9
66.5°	7943.5	6968.8	4035.2	400.5	13.6	6.2	9.1
67°	7935.4	6950.9	4006.2	390.6	10.2	6.2	9.2

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CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	7929.4	6932.5	3976.9	379.5	8.6	6.2	9.4
68°	7921.6	6915.7	3947.3	367.9	8.1	6.2	9.7
68.5°	7912.9	6896.3	3915.7	357.3	8.0	6.2	9.9
69°	7906.8	6877.4	3885.8	348.4	7.9	6.2	10.1
69.5°	7898.0	6859.2	3852.2	338.8	7.8	6.3	10.4
70°	7890.2	6839.8	3815.7	327.7	7.6	6.4	10.7
70.5°	7883.2	6821.8	3780.0	316.2	7.1	6.5	11.0
71°	7878.3	6803.3	3743.2	305.2	6.8	6.6	11.2
71.5°	7871.1	6785.5	3704.5	294.5	6.7	6.8	11.5
72°	7864.5	6770.2	3665.0	283.8	6.7	7.0	11.7
72.5°	7860.4	6754.6	3625.6	273.1	6.7	7.3	12.0
73°	7857.4	6739.1	3582.6	262.4	6.7	7.5	12.2
73.5°	7854.2	6724.3	3539.8	251.7	6.7	7.7	12.5
74°	7851.3	6712.0	3494.1	240.3	6.7	8.0	12.8
74.5°	7849.2	6699.7	3447.1	228.7	6.7	8.2	13.0
75°	7849.9	6688.9	3400.8	216.3	6.7	8.4	13.3
75.5°	7847.9	6681.2	3356.4	203.3	6.8	8.6	13.6
76°	7846.9	6674.0	3310.8	190.4	6.8	8.8	13.8
76.5°	7845.8	6667.2	3267.0	178.0	6.9	9.1	14.1
77°	7842.8	6660.9	3223.0	165.1	6.9	9.3	14.3
77.5°	7839.8	6655.5	3176.5	152.5	7.0	9.5	14.5
78°	7835.6	6648.9	3122.4	140.2	7.0	9.7	14.7
78.5°	7827.1	6643.4	3070.1	128.5	7.1	9.9	15.0
79°	7818.7	6635.5	3012.7	117.6	7.1	10.1	15.2
79.5°	7809.8	6623.8	2957.2	107.1	7.2	10.3	15.4
80°	7797.1	6612.3	2899.9	96.3	7.3	10.6	15.7
80.5°	7783.1	6600.9	2846.4	86.4	7.4	10.8	15.9
81°	7765.2	6585.8	2789.8	77.1	7.5	11.0	16.2
81.5°	7747.6	6570.4	2738.2	68.8	7.6	11.2	16.4
82°	7730.1	6555.7	2682.9	61.5	7.7	11.4	16.6
82.5°	7713.7	6538.0	2622.4	55.3	7.8	11.6	16.8
83°	7694.5	6517.5	2559.3	49.9	7.9	11.8	17.0
83.5°	7676.3	6495.0	2498.2	44.6	8.0	12.1	17.2
84°	7660.4	6475.8	2439.4	39.9	8.1	12.3	17.4
84.5°	7636.4	6460.7	2384.5	35.7	8.2	12.5	17.6
85°	7609.0	6448.8	2333.0	31.7	8.3	12.7	17.8
85.5°	7580.1	6434.4	2282.7	28.4	8.5	12.9	18.1
86°	7543.4	6422.5	2236.9	25.3	8.6	13.1	18.3
86.5°	7502.6	6412.3	2191.2	22.4	8.8	13.3	18.5
87°	7461.6	6404.0	2152.6	19.6	8.9	13.5	18.6
87.5°	7414.7	6395.8	2117.0	17.2	9.1	13.7	18.8
88°	7364.4	6388.9	2081.9	14.8	9.2	13.9	19.0
88.5°	7315.3	6381.6	2047.2	12.6	9.3	14.1	19.1
89°	7262.1	6371.5	2018.2	10.9	9.5	14.3	19.3
89.5°	7207.2	6361.9	2001.1	9.5	9.6	14.5	19.4

REPORT NUMBER: P1197247

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	7155.3	6359.6	1993.3	8.1	9.7	14.6	19.5
90.5°	7108.8	6371.3	1999.3	7.3	9.8	14.8	19.6
91°	7062.2	6402.8	2023.6	7.1	9.9	15.0	19.8
91.5°	7020.7	6455.6	2063.7	7.0	10.0	15.1	19.9
92°	6985.6	6516.9	2124.5	6.9	10.1	15.3	20.0
92.5°	6940.1	6550.9	2204.0	6.8	10.2	15.4	20.2
93°	6841.8	6555.7	2274.7	6.7	10.3	15.6	20.3
93.5°	6692.2	6502.5	2315.2	6.6	10.4	15.8	20.5
94°	6502.6	6408.5	2283.1	6.6	10.5	15.9	20.6
94.5°	6288.8	6268.3	2188.4	6.5	10.7	16.1	20.8
95°	6115.7	6112.4	2043.5	6.5	10.8	16.2	20.9
95.5°	6025.1	5956.1	1867.0	6.4	10.9	16.4	21.0
96°	6065.0	5762.7	1709.6	6.3	11.1	16.6	21.1
96.5°	6183.9	5472.6	1558.5	6.2	11.2	16.8	21.2
97°	6310.3	5116.4	1391.3	6.2	11.3	17.0	21.3
97.5°	6422.9	4765.3	1200.8	6.1	11.4	17.1	21.4
98°	6212.1	4407.0	1011.2	6.1	11.5	17.3	21.5
98.5°	6002.6	4130.2	856.8	6.1	11.6	17.5	21.6
99°	5795.1	3963.5	750.8	6.0	11.7	17.7	21.6
99.5°	5588.0	3828.7	644.8	5.9	11.8	17.8	21.7
100°	5373.1	3804.7	538.8	5.9	11.9	17.9	21.8
100.5°	4992.7	3987.9	432.7	5.8	12.0	18.0	21.8
101°	4661.5	4319.7	329.6	5.7	12.1	18.0	21.9
101.5°	4363.8	4598.2	299.6	5.7	12.2	18.1	22.0
102°	4166.6	4553.8	307.2	5.7	12.3	18.3	22.0
102.5°	4198.8	4064.8	329.9	5.6	12.4	18.4	22.1
103°	4407.9	3160.3	320.7	5.6	12.5	18.6	22.2
103.5°	4685.2	2821.9	311.2	5.6	12.6	18.7	22.2
104°	4726.4	2496.1	300.0	5.6	12.7	18.9	22.3
104.5°	4282.0	2170.3	287.6	5.6	12.8	19.0	22.3
105°	3264.0	1843.7	236.0	5.6	12.9	19.1	22.4
105.5°	2662.5	1516.5	144.1	5.6	13.0	19.2	22.4
106°	2060.9	1190.3	112.5	5.6	13.0	19.3	22.4
106.5°	1459.5	864.5	97.2	5.6	13.1	19.5	22.5
107°	858.0	538.6	81.8	5.7	13.2	19.5	22.5
107.5°	264.7	212.8	69.7	5.7	13.3	19.6	22.6
108°	253.4	209.0	58.9	5.7	13.4	19.7	22.6
108.5°	252.4	201.9	49.1	5.7	13.5	19.7	22.6
109°	261.2	184.3	40.0	5.8	13.6	19.8	22.6
109.5°	269.6	165.3	32.6	5.8	13.6	19.9	22.7
110°	277.0	147.5	26.6	5.9	13.7	19.9	22.7
110.5°	268.5	129.1	21.7	6.0	13.8	20.0	22.7
111°	236.9	115.8	18.1	6.0	13.8	20.1	22.8
111.5°	210.8	107.6	14.9	6.1	13.9	20.1	22.8
112°	196.9	103.5	12.7	6.2	14.0	20.2	22.8

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CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	182.4	102.5	11.3	6.3	14.1	20.2	22.8
113°	166.1	102.8	10.1	6.3	14.1	20.3	22.9
113.5°	158.0	106.0	8.9	6.4	14.2	20.3	22.9
114°	155.6	111.4	7.9	6.5	14.3	20.4	22.9
114.5°	156.2	116.1	7.0	6.6	14.3	20.4	22.9
115°	156.5	119.1	6.5	6.7	14.4	20.5	22.9
115.5°	154.3	119.4	6.1	6.7	14.5	20.5	22.9
116°	153.9	114.9	5.7	6.8	14.5	20.5	22.9
116.5°	153.6	99.6	5.3	6.9	14.6	20.6	22.9
117°	152.6	81.1	4.9	7.0	14.7	20.6	22.9
117.5°	148.9	56.4	4.6	7.0	14.7	20.6	22.9
118°	142.2	32.3	4.3	7.1	14.8	20.7	22.9
118.5°	131.3	20.9	4.0	7.2	14.8	20.7	22.9
119°	116.5	17.2	3.7	7.3	14.9	20.8	22.9
119.5°	97.2	14.3	3.5	7.4	14.9	20.8	22.9
120°	71.1	11.4	3.3	7.5	15.0	20.9	22.9
120.5°	43.7	8.7	3.2	7.6	15.1	20.9	22.9
121°	24.9	6.3	3.0	7.6	15.1	20.9	22.9
121.5°	17.4	4.6	2.9	7.7	15.2	20.9	22.9
122°	13.7	3.4	2.8	7.8	15.2	20.9	22.9
122.5°	10.3	2.7	2.7	7.9	15.3	20.9	22.9
123°	7.8	2.2	2.6	8.0	15.3	20.9	22.9
123.5°	5.7	2.0	2.6	8.0	15.4	20.9	22.9
124°	4.3	1.8	2.6	8.1	15.4	21.0	22.9
124.5°	3.3	1.8	2.6	8.2	15.4	21.0	22.9
125°	2.5	1.7	2.6	8.3	15.5	21.0	22.8
125.5°	2.1	1.7	2.7	8.4	15.5	21.0	22.8
126°	1.9	1.6	2.7	8.4	15.6	21.0	22.8
126.5°	1.9	1.6	2.8	8.5	15.6	21.0	22.7
127°	1.8	1.6	2.8	8.6	15.7	21.0	22.7
127.5°	1.8	1.6	2.9	8.7	15.7	21.0	22.7
128°	1.8	1.6	3.0	8.8	15.7	21.0	22.7
128.5°	1.8	1.6	3.1	8.9	15.8	21.0	22.6
129°	1.7	1.6	3.2	9.0	15.8	21.0	22.6
129.5°	1.7	1.6	3.2	9.0	15.9	21.0	22.5
130°	1.7	1.6	3.3	9.1	15.9	21.0	22.5
130.5°	1.7	1.5	3.4	9.2	16.0	21.0	22.4
131°	1.7	1.5	3.5	9.3	16.0	21.0	22.4
131.5°	1.7	1.5	3.6	9.4	16.1	21.0	22.3
132°	1.7	1.5	3.7	9.5	16.1	21.0	22.3
132.5°	1.6	1.5	3.8	9.6	16.1	21.0	22.2
133°	1.6	1.5	3.9	9.6	16.2	21.0	22.2
133.5°	1.5	1.5	4.0	9.7	16.2	21.0	22.1
134°	1.4	1.4	4.1	9.8	16.2	20.9	22.1
134.5°	1.3	1.4	4.2	9.9	16.3	20.9	22.1

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CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	1.3	1.5	4.3	10.0	16.3	20.9	22.0
135.5°	1.3	1.5	4.4	10.0	16.4	20.9	22.0
136°	1.3	1.5	4.5	10.1	16.4	20.9	22.0
136.5°	1.3	1.5	4.6	10.2	16.4	20.9	22.0
137°	1.3	1.5	4.7	10.3	16.4	20.8	22.0
137.5°	1.3	1.5	4.8	10.4	16.5	20.8	21.9
138°	1.3	1.5	4.9	10.4	16.5	20.8	21.9
138.5°	1.3	1.6	5.0	10.5	16.5	20.8	21.8
139°	1.3	1.6	5.1	10.6	16.5	20.7	21.7
139.5°	1.3	1.7	5.2	10.7	16.6	20.7	21.7
140°	1.3	1.7	5.4	10.8	16.6	20.7	21.6
140.5°	1.3	1.8	5.5	10.8	16.6	20.7	21.5
141°	1.4	1.8	5.6	10.9	16.6	20.6	21.4
141.5°	1.4	1.9	5.7	11.0	16.7	20.6	21.3
142°	1.4	2.0	5.8	11.1	16.7	20.6	21.2
142.5°	1.5	2.0	5.9	11.1	16.7	20.5	21.1
143°	1.5	2.1	6.0	11.2	16.7	20.5	21.0
143.5°	1.6	2.1	6.1	11.3	16.7	20.4	20.8
144°	1.6	2.2	6.2	11.4	16.7	20.4	20.7
144.5°	1.7	2.3	6.3	11.4	16.7	20.3	20.6
145°	1.7	2.4	6.4	11.5	16.7	20.3	20.5
145.5°	1.8	2.4	6.5	11.6	16.7	20.2	20.4
146°	1.8	2.5	6.6	11.7	16.7	20.1	20.2
146.5°	1.9	2.6	6.7	11.7	16.7	20.1	20.1
147°	1.9	2.7	6.8	11.8	16.7	20.0	20.0
147.5°	2.0	2.8	6.9	11.9	16.7	20.0	19.8
148°	2.0	2.9	7.1	11.9	16.7	19.9	19.7
148.5°	2.1	3.0	7.2	12.0	16.7	19.9	19.6
149°	2.1	3.1	7.3	12.1	16.7	19.8	19.5
149.5°	2.2	3.1	7.4	12.1	16.7	19.8	19.4
150°	2.2	3.2	7.5	12.2	16.7	19.7	19.3
150.5°	2.3	3.4	7.6	12.3	16.8	19.7	19.1
151°	2.3	3.4	7.7	12.4	16.8	19.6	19.0
151.5°	2.4	3.6	7.8	12.4	16.8	19.6	18.8
152°	2.4	3.7	7.9	12.5	16.8	19.6	18.7
152.5°	2.5	3.8	8.0	12.6	16.8	19.5	18.5
153°	2.5	3.9	8.2	12.6	16.8	19.5	18.4
153.5°	2.6	4.0	8.3	12.7	16.8	19.5	18.2
154°	2.6	4.1	8.4	12.8	16.8	19.4	18.0
154.5°	2.7	4.3	8.5	12.8	16.8	19.4	17.9
155°	2.8	4.4	8.6	12.8	16.8	19.3	17.7
155.5°	2.9	4.5	8.7	12.9	16.8	19.2	17.6
156°	3.0	4.6	8.8	13.0	16.8	19.1	17.4
156.5°	3.1	4.7	9.0	13.0	16.8	19.1	17.2
157°	3.1	4.9	9.1	13.1	16.8	19.0	17.0

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CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-5000K-POSITION 45

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	3.2	5.0	9.2	13.1	16.7	18.9	16.9
158°	3.3	5.1	9.3	13.2	16.7	18.8	16.8
158.5°	3.4	5.3	9.4	13.2	16.7	18.7	16.7
159°	3.6	5.4	9.5	13.3	16.7	18.6	16.5
159.5°	3.7	5.5	9.6	13.4	16.7	18.5	16.3
160°	3.8	5.7	9.7	13.4	16.7	18.4	16.1
160.5°	4.0	5.8	9.9	13.5	16.7	18.4	16.0
161°	4.1	6.0	10.0	13.5	16.6	18.2	15.8
161.5°	4.2	6.1	10.1	13.6	16.6	18.1	15.6
162°	4.4	6.3	10.2	13.6	16.6	18.1	15.4
162.5°	4.5	6.5	10.3	13.7	16.6	18.0	15.2
163°	4.7	6.6	10.4	13.7	16.5	17.9	15.0
163.5°	4.8	6.8	10.5	13.8	16.6	17.8	14.8
164°	5.0	7.0	10.6	13.8	16.6	17.7	14.6
164.5°	5.1	7.2	10.7	13.9	16.5	17.6	14.4
165°	5.3	7.4	10.8	13.9	16.5	17.5	14.2
165.5°	5.4	7.5	10.9	14.0	16.5	17.5	14.0
166°	5.5	7.7	11.0	14.0	16.4	17.4	13.8
166.5°	5.7	7.8	11.1	14.1	16.4	17.3	13.7
167°	5.8	8.0	11.2	14.1	16.4	17.2	13.5
167.5°	5.9	8.1	11.3	14.1	16.4	17.1	13.4
168°	6.0	8.3	11.5	14.2	16.4	17.0	13.2
168.5°	6.2	8.5	11.6	14.2	16.3	16.9	13.0
169°	6.3	8.6	11.7	14.3	16.3	16.8	12.8
169.5°	6.4	8.8	11.8	14.3	16.2	16.7	12.7
170°	6.6	8.9	11.9	14.4	16.2	16.7	12.5
170.5°	6.7	9.1	12.0	14.4	16.2	16.6	12.3
171°	6.8	9.2	12.1	14.4	16.1	16.4	12.1
171.5°	6.9	9.3	12.2	14.5	16.1	16.3	11.9
172°	7.0	9.5	12.3	14.5	16.0	16.2	11.7
172.5°	7.2	9.7	12.4	14.5	16.0	16.0	11.5
173°	7.3	9.8	12.5	14.6	15.9	15.9	11.3
173.5°	7.4	9.9	12.6	14.6	15.9	15.8	11.2
174°	7.5	10.1	12.7	14.6	15.8	15.7	11.0
174.5°	7.6	10.2	12.8	14.7	15.8	15.6	10.8
175°	7.8	10.3	12.9	14.7	15.7	15.5	10.6
175.5°	7.9	10.5	13.0	14.7	15.7	15.4	10.5
176°	8.0	10.6	13.1	14.7	15.6	15.3	10.3
176.5°	8.2	10.7	13.2	14.7	15.6	15.2	10.2
177°	8.3	10.9	13.3	14.8	15.5	15.1	10.0
177.5°	8.4	11.0	13.3	14.8	15.5	15.0	9.8
178°	8.6	11.1	13.4	14.8	15.4	14.9	9.7
178.5°	8.7	11.3	13.5	14.8	15.3	14.7	9.5
179°	8.9	11.4	13.6	14.8	15.3	14.6	9.4
179.5°	9.0	11.5	13.7	14.9	15.2	14.5	9.3



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	9.1	9.1	9.1	9.1	9.1	9.1	9.1

(END OF REPORT)