

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: P1197229

Luminaire Tested: AWPS150S-BZ-BZ-HIGH-5000K-POSITION 15

Issue Date: 10/29/2025

Test Information

Test Method: LM-79-2019
Report Number: P1197229
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 15
Description: AWP Architectural
Light Source: 80 CRI, 5000K
Ballast/Driver: -

Summary

Lumens per Lamp: 19305 (1 lamp)
Luminaire Lumens: 20619.4 lumens
Efficiency: 106.8%
Efficacy: 137.4 lumens/watt
Luminous Opening: Rectangular w/ Sides (W: 0.4' x L: 0.56' x H: 0.69')
IES Classification: Type IV - Short - Semi-Cutoff
BUG Rating: B3 - U3 - G3

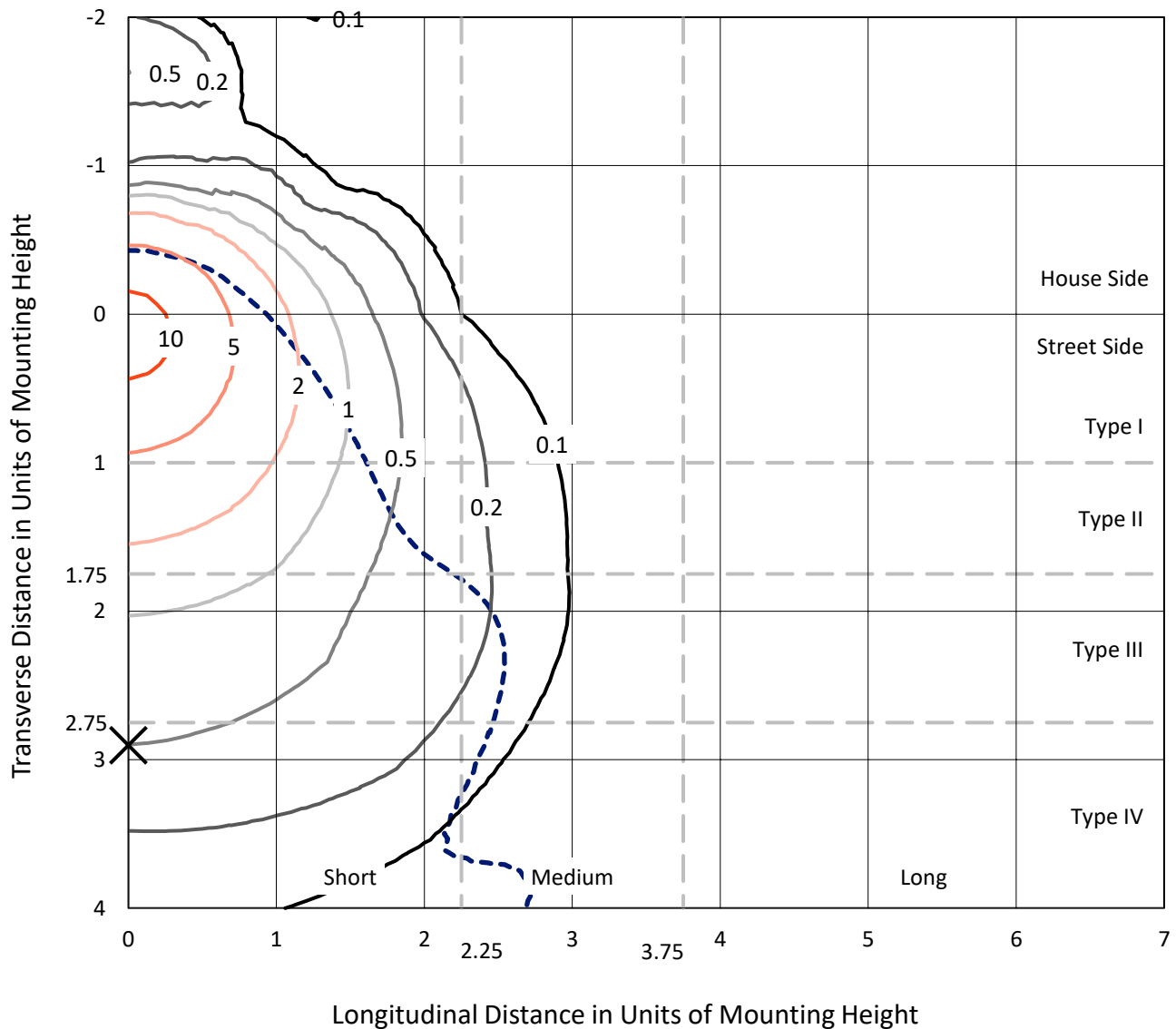
Input Watts (W): 150.1
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 28.75 FT

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Iso-Footcandle Lines of Horizontal Illumination

× Max cd
- - - 1/2 Max cd

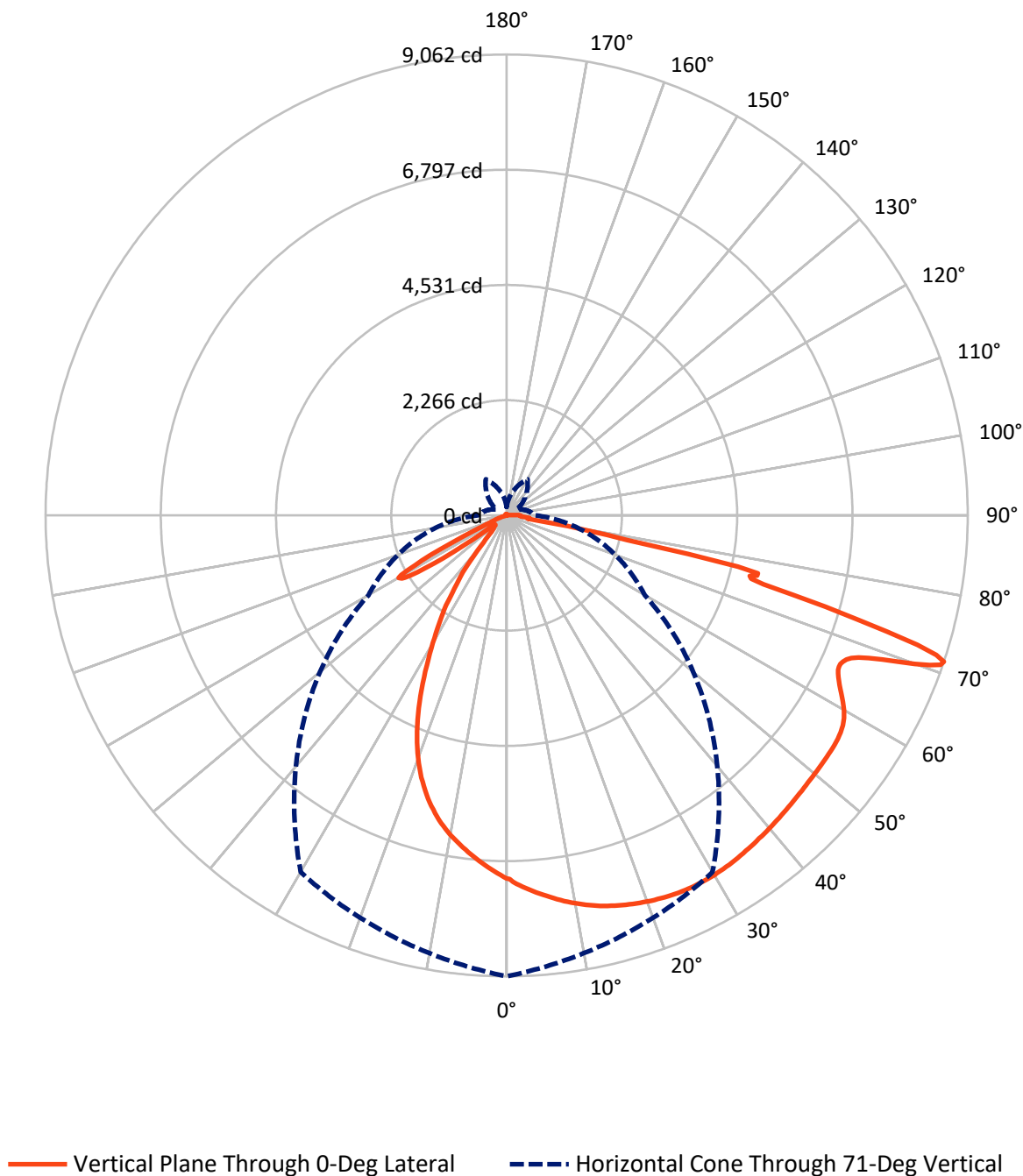


Based on 25 foot mounting height. Maximum calculated value = 11.9 fc
Type IV - Short - Semi-Cutoff

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Luminous Intensity Polar Plot



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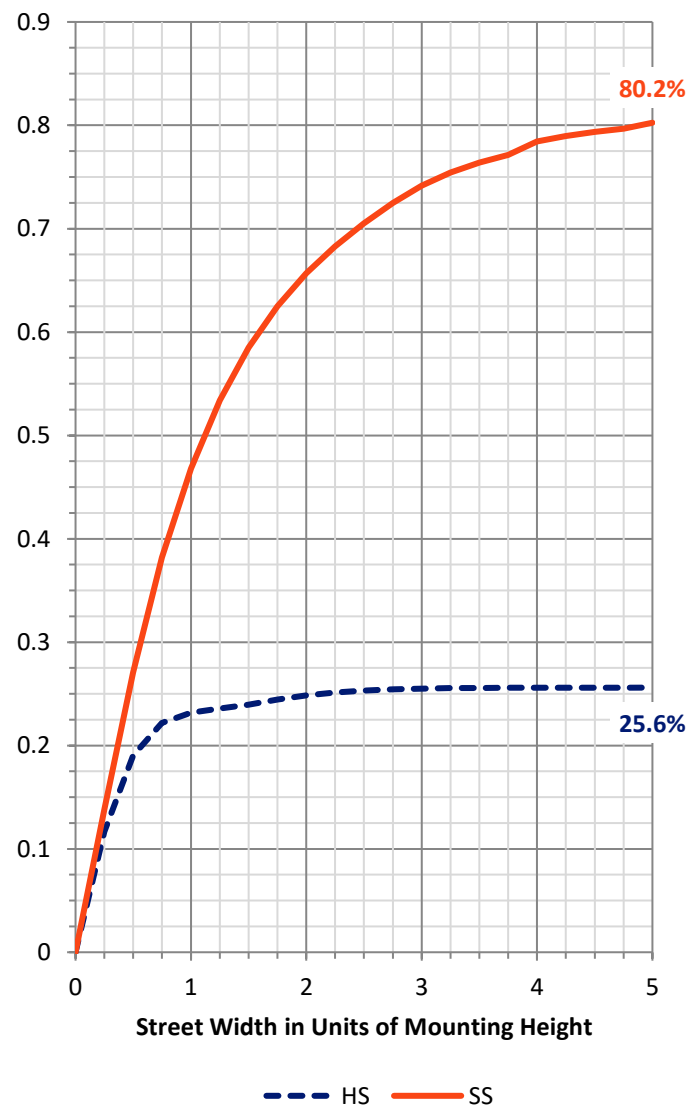
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	4980.0	46.8	5026.8
	% Lamp	25.8	0.2	26.0
Street Side	Lumens	15527.8	64.8	15592.6
	% Lamp	80.4	0.3	80.8
Total	Lumens	20507.8	111.6	20619.4
	% Lamp	106.2	0.6	106.8

ZONAL LUMENS:

Zone	Lumens	% Fixture	% Lamp
0°-10°	677.2	3.3	3.5
10°-20°	1938.4	9.4	10.0
20°-30°	2870.5	13.9	14.9
30°-40°	3268.1	15.8	16.9
40°-50°	3200.9	15.5	16.6
50°-60°	3097.6	15.0	16.0
60°-70°	2848.3	13.8	14.8
70°-80°	2177.9	10.6	11.3
80°-90°	428.9	2.1	2.2
90°-100°	49.7	0.2	0.3
100°-110°	7.5	0.0	0.0
110°-120°	8.7	0.0	0.0
120°-130°	10.0	0.0	0.1
130°-140°	10.4	0.1	0.1
140°-150°	9.8	0.0	0.1
150°-160°	8.1	0.0	0.0
160°-170°	5.5	0.0	0.0
170°-180°	2.0	0.0	0.0
0°-90°	20507.8	99.5	106.2
0°-180°	20619.4	100.0	106.8

Coefficient of Utilization



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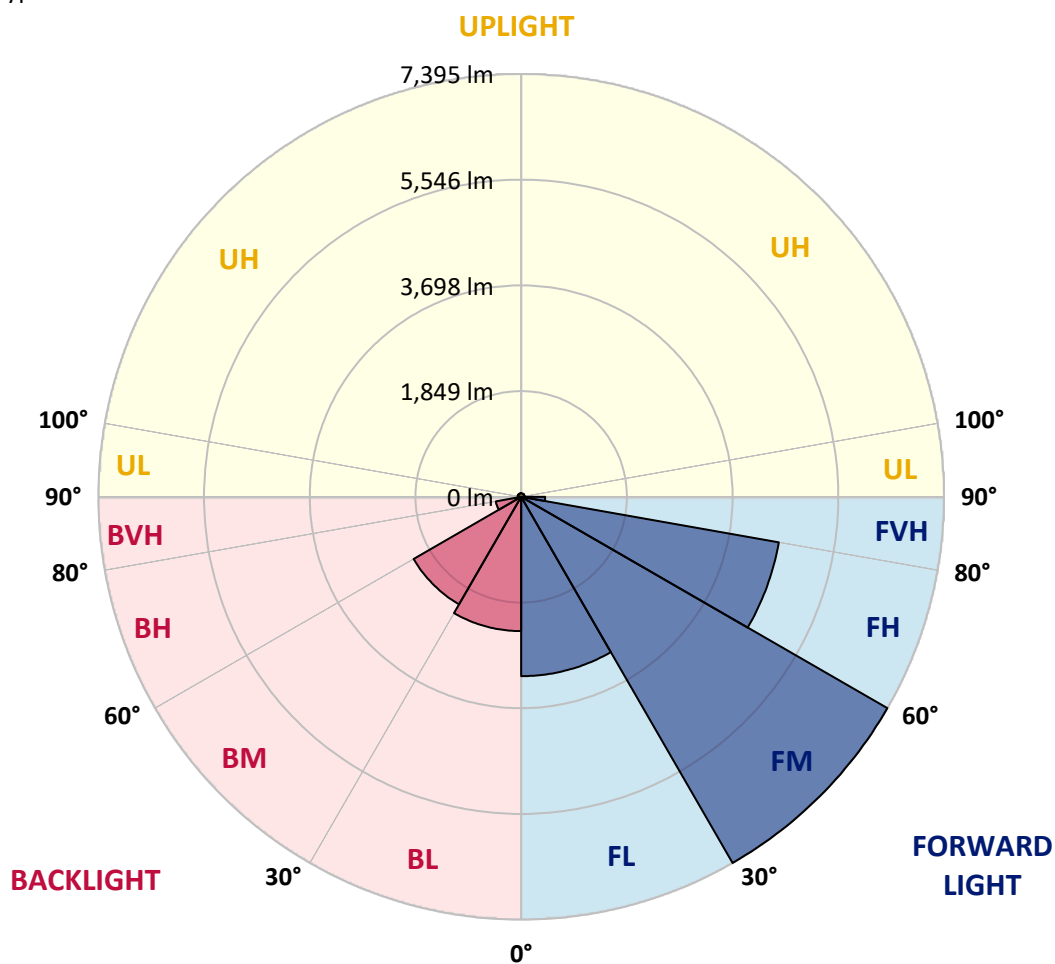
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone		Lumens	% Lamp	Zone Rating/Lumen Limit		
				B	U	G
FL	(0°-30°)	3136.5	16.2			
FM	(30°-60°)	7395.2	38.3			
FH	(60°-80°)	4575.5	23.7			G2/5000
FVH	(80°-90°)	420.7	2.2			G3/500
BL	(0°-30°)	2349.6	12.2	B3/2500		
BM	(30°-60°)	2171.4	11.2	B2/2500		
BH	(60°-80°)	450.8	2.3	B1/500		G1/500
BVH	(80°-90°)	8.2	0.0			G0/10
UL	(90°-100°)	49.7	0.3		U2/50	
UH	(100°-180°)	61.9	0.3		U3/500	
Trapped Light		-1314.4	-6.8			

BUG Rating: B3-U3-G3

Type IV Short



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CANDELA DISTRIBUTION (FULL):

	0°	30°	60°	90°	120°	150°	180°
0°	7150.2	7150.2	7150.2	7150.2	7150.2	7150.2	7150.2
0.5°	7207.3	7205.9	7177.8	7148.1	7115.5	7077.9	7139.2
1°	7243.1	7233.0	7194.8	7147.1	7097.7	7046.9	7103.5
1.5°	7274.5	7260.2	7210.0	7144.2	7079.2	7016.2	7067.5
2°	7308.1	7287.5	7224.2	7142.0	7060.1	6984.0	7033.4
2.5°	7341.6	7315.4	7238.3	7139.2	7040.0	6954.1	6997.2
3°	7373.6	7342.3	7252.0	7135.2	7020.1	6923.7	6960.7
3.5°	7404.6	7368.7	7264.7	7130.4	6999.1	6891.4	6927.5
4°	7436.3	7394.0	7278.2	7125.5	6978.4	6858.9	6890.2
4.5°	7464.3	7420.6	7289.8	7119.6	6956.1	6826.8	6854.1
5°	7492.8	7443.4	7299.9	7111.1	6935.4	6793.4	6817.1
5.5°	7523.5	7466.3	7310.3	7103.9	6911.6	6758.2	6777.6
6°	7552.0	7488.3	7320.8	7095.3	6887.8	6723.9	6738.9
6.5°	7581.7	7511.9	7329.2	7086.4	6863.3	6688.0	6701.2
7°	7610.6	7534.6	7338.2	7074.7	6837.4	6650.9	6662.0
7.5°	7638.8	7557.4	7345.7	7064.8	6812.4	6616.7	6619.2
8°	7667.8	7578.5	7353.5	7053.7	6784.9	6578.2	6582.1
8.5°	7692.5	7600.3	7359.4	7042.6	6757.2	6538.7	6540.4
9°	7717.1	7621.2	7365.8	7029.5	6730.1	6502.3	6498.7
9.5°	7743.1	7639.9	7371.6	7015.8	6700.9	6463.1	6456.2
10°	7766.4	7658.4	7375.4	7000.4	6668.6	6425.3	6418.2
10.5°	7790.3	7676.3	7379.4	6985.2	6639.2	6386.0	6373.9
11°	7812.9	7694.1	7383.1	6969.5	6608.4	6345.5	6327.0
11.5°	7833.8	7709.4	7385.8	6953.3	6576.4	6303.0	6280.7
12°	7855.3	7725.4	7387.7	6937.2	6544.5	6259.7	6234.6
12.5°	7874.7	7740.6	7388.7	6918.5	6512.5	6215.3	6184.6
13°	7894.1	7754.1	7390.5	6900.1	6477.7	6170.3	6131.4
13.5°	7913.0	7765.9	7391.4	6879.7	6448.2	6123.3	6078.3
14°	7930.1	7780.3	7390.3	6860.1	6417.5	6075.1	6021.5
14.5°	7945.0	7792.8	7388.3	6838.8	6384.5	6024.6	5961.4
15°	7959.9	7803.2	7388.1	6815.1	6351.5	5971.1	5905.2
15.5°	7976.2	7813.8	7385.1	6793.0	6318.5	5917.5	5841.9
16°	7990.5	7824.5	7382.2	6769.4	6285.5	5862.1	5777.8
16.5°	8004.8	7832.4	7379.1	6745.3	6252.4	5802.0	5710.2
17°	8018.1	7841.3	7374.1	6721.3	6214.0	5743.3	5638.3
17.5°	8030.6	7848.3	7369.5	6695.5	6173.4	5681.5	5564.1
18°	8042.9	7855.8	7364.6	6669.6	6133.4	5616.9	5491.5
18.5°	8056.3	7861.8	7360.2	6644.9	6091.3	5553.0	5420.3
19°	8066.7	7868.5	7353.6	6617.9	6048.8	5485.1	5337.9
19.5°	8078.1	7873.2	7346.6	6590.9	6006.6	5416.3	5253.6
20°	8089.8	7877.1	7338.7	6563.7	5960.8	5345.1	5170.8
20.5°	8099.0	7882.7	7329.5	6535.3	5916.3	5273.1	5080.7
21°	8106.8	7887.8	7319.3	6504.8	5870.1	5191.6	4990.0
21.5°	8116.1	7889.7	7309.4	6476.0	5824.2	5113.6	4894.0
22°	8125.5	7891.5	7298.6	6449.0	5775.1	5032.8	4800.6

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
22.5°	8132.1	7893.5	7288.7	6420.3	5725.3	4946.9	4697.0
23°	8138.8	7895.3	7276.7	6390.0	5675.8	4861.7	4593.5
23.5°	8146.6	7896.3	7264.7	6358.6	5624.6	4772.9	4487.2
24°	8152.5	7895.3	7251.8	6325.1	5572.6	4680.9	4383.9
24.5°	8157.2	7895.3	7238.8	6291.4	5516.9	4587.2	4273.0
25°	8161.9	7894.3	7223.9	6257.1	5461.0	4490.7	4159.9
25.5°	8165.8	7892.4	7209.3	6223.5	5404.2	4394.9	4047.0
26°	8166.3	7891.3	7194.4	6186.8	5345.4	4289.7	3932.7
26.5°	8166.7	7887.4	7177.8	6150.1	5285.9	4187.5	3814.9
27°	8167.2	7883.6	7162.1	6112.9	5225.5	4082.2	3693.3
27.5°	8167.6	7879.5	7145.0	6072.3	5160.1	3969.6	3575.2
28°	8168.1	7874.8	7126.8	6033.1	5096.3	3862.6	3459.1
28.5°	8168.5	7867.2	7108.0	5993.8	5030.7	3753.2	3341.9
29°	8165.6	7860.2	7089.1	5952.9	4961.3	3634.5	3229.5
29.5°	8163.7	7853.4	7069.4	5912.2	4891.1	3519.3	3115.5
30°	8158.7	7845.4	7049.3	5871.2	4820.7	3409.8	3002.3
30.5°	8155.6	7836.6	7026.1	5829.7	4748.5	3294.1	2897.2
31°	8150.0	7826.2	7002.9	5785.4	4676.7	3179.8	2798.1
31.5°	8146.9	7815.1	6980.8	5744.0	4600.4	3072.0	2699.1
32°	8141.2	7806.5	6956.1	5699.2	4524.0	2957.9	2600.0
32.5°	8136.2	7795.5	6933.8	5654.5	4445.6	2835.5	2501.1
33°	8128.6	7783.4	6907.2	5609.5	4365.3	2740.0	2402.2
33.5°	8121.7	7772.6	6880.5	5562.9	4282.2	2644.6	2313.2
34°	8115.6	7761.9	6854.6	5516.5	4197.9	2549.3	2230.6
34.5°	8108.9	7749.5	6825.5	5470.5	4110.5	2453.9	2130.5
35°	8100.0	7737.7	6795.6	5425.7	4021.1	2360.3	1988.7
35.5°	8092.4	7724.7	6767.3	5377.2	3929.4	2267.3	1867.9
36°	8085.6	7710.9	6737.7	5328.3	3837.4	2183.6	1763.7
36.5°	8078.6	7695.6	6705.1	5274.6	3739.9	2099.4	1671.7
37°	8069.9	7680.7	6672.7	5222.5	3644.7	2017.1	1589.3
37.5°	8061.4	7665.0	6643.6	5170.3	3547.5	1940.4	1506.3
38°	8054.4	7649.2	6610.7	5117.6	3447.4	1871.7	1411.4
38.5°	8047.5	7634.5	6575.3	5060.6	3345.2	1779.1	1298.4
39°	8040.4	7618.0	6542.4	5005.8	3241.8	1659.0	1161.2
39.5°	8033.0	7602.5	6509.0	4950.4	3140.6	1551.5	1026.2
40°	8026.0	7585.9	6474.1	4892.2	3038.4	1454.3	898.6
40.5°	8018.1	7569.2	6443.0	4833.7	2937.4	1369.6	791.1
41°	8010.3	7553.5	6412.0	4775.0	2837.0	1281.5	699.9
41.5°	8003.4	7536.4	6379.6	4714.3	2737.2	1183.8	629.6
42°	7994.6	7518.6	6347.2	4652.0	2638.5	1066.1	565.7
42.5°	7987.1	7500.3	6314.9	4589.7	2546.7	945.8	511.4
43°	7980.0	7482.2	6282.5	4526.8	2459.5	824.6	468.1
43.5°	7972.5	7463.5	6249.8	4462.5	2377.5	725.8	433.3
44°	7963.8	7443.3	6211.9	4400.3	2302.0	644.3	405.9
44.5°	7957.8	7429.0	6173.8	4334.8	2228.9	588.2	386.4

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
45°	7950.0	7409.7	6135.9	4268.1	2151.5	548.0	372.7
45.5°	7944.2	7389.3	6097.0	4202.2	2065.2	522.4	362.5
46°	7939.2	7370.0	6058.0	4134.2	1971.7	508.1	356.1
46.5°	7933.2	7352.2	6018.3	4068.5	1883.2	498.7	352.8
47°	7926.5	7332.6	5978.7	4001.5	1800.9	490.3	350.5
47.5°	7921.4	7312.0	5938.0	3935.4	1731.0	482.2	345.8
48°	7914.9	7294.6	5897.8	3868.3	1667.2	473.1	335.5
48.5°	7910.0	7278.4	5857.8	3801.7	1606.3	464.8	321.5
49°	7907.0	7261.1	5816.4	3736.0	1545.8	458.4	306.1
49.5°	7902.1	7245.5	5776.2	3670.6	1480.4	454.1	300.1
50°	7899.1	7228.4	5734.6	3605.6	1404.6	451.2	294.6
50.5°	7896.2	7213.8	5689.5	3541.5	1312.6	448.3	289.2
51°	7893.0	7201.9	5645.8	3473.1	1208.7	442.3	283.8
51.5°	7888.3	7187.5	5602.2	3407.5	1097.3	433.7	292.4
52°	7885.3	7171.8	5554.1	3334.7	984.8	425.0	305.1
52.5°	7882.3	7159.8	5506.2	3263.4	888.4	418.6	319.7
53°	7879.3	7147.9	5459.1	3186.1	804.5	413.9	329.8
53.5°	7875.4	7137.0	5408.8	3110.0	739.7	409.4	330.8
54°	7871.5	7123.9	5358.0	3028.4	690.5	404.7	347.6
54.5°	7866.6	7111.4	5307.9	2949.4	656.3	400.5	568.7
55°	7859.9	7098.1	5255.2	2869.6	622.0	397.5	803.2
55.5°	7851.6	7087.7	5200.7	2790.6	587.8	395.2	1037.7
56°	7841.1	7075.8	5147.2	2711.6	553.5	392.0	1272.2
56.5°	7828.8	7066.0	5091.1	2632.5	520.4	385.4	1506.7
57°	7811.1	7057.3	5031.6	2553.6	505.9	371.2	1694.7
57.5°	7792.3	7049.3	4973.6	2469.4	493.9	347.5	1880.6
58°	7765.6	7039.6	4911.7	2378.9	482.4	310.2	2066.2
58.5°	7733.9	7027.7	4847.2	2285.8	471.5	287.2	2222.0
59°	7696.2	7016.4	4784.4	2187.2	460.3	264.7	2340.1
59.5°	7655.5	6997.6	4719.2	2089.7	449.7	242.1	2401.0
60°	7607.6	6979.6	4653.6	1994.0	439.1	219.5	2432.2
60.5°	7556.0	6961.3	4586.5	1894.5	428.1	202.4	2450.9
61°	7500.1	6940.4	4520.9	1794.7	416.6	179.3	2384.8
61.5°	7445.3	6918.1	4455.8	1692.0	405.8	159.8	2224.0
62°	7393.9	6896.7	4390.9	1591.0	395.1	155.5	2049.1
62.5°	7342.6	6874.4	4325.6	1490.6	384.5	159.0	1886.0
63°	7297.7	6852.1	4254.8	1394.6	373.7	164.7	1694.4
63.5°	7254.7	6830.3	4178.9	1299.1	363.2	172.6	1461.8
64°	7217.2	6811.6	4104.7	1209.0	353.7	188.8	1214.9
64.5°	7188.5	6791.7	4031.1	1124.6	345.3	232.6	956.2
65°	7176.3	6772.6	3958.0	1050.3	337.6	409.8	745.8
65.5°	7182.6	6754.3	3887.8	987.3	329.4	589.7	603.2
66°	7208.2	6732.3	3816.9	935.9	320.8	769.7	504.1
66.5°	7255.9	6722.6	3749.6	894.7	312.6	949.8	435.6
67°	7332.1	6729.7	3685.0	851.2	305.2	1130.1	379.8

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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
67.5°	7461.9	6769.7	3618.5	782.0	297.6	1196.8	334.5
68°	7646.5	6850.8	3549.6	704.3	288.3	1186.1	298.9
68.5°	7903.9	6963.5	3483.1	651.4	277.1	1144.0	275.6
69°	8215.9	7137.8	3416.6	628.1	266.8	1089.7	252.6
69.5°	8533.4	7350.6	3348.2	613.5	253.8	1031.7	229.6
70°	8819.0	7607.5	3276.4	601.5	241.8	966.6	206.6
70.5°	9021.3	7874.0	3206.0	585.3	232.3	893.9	187.8
71°	9062.1	8095.3	3134.3	563.9	223.2	820.2	168.1
71.5°	8879.0	8230.4	3066.1	539.2	213.1	749.0	147.6
72°	8470.0	8270.3	3003.4	513.7	198.7	683.8	129.0
72.5°	7819.7	8134.1	2940.4	490.1	174.0	616.5	111.5
73°	7168.9	7814.1	2886.4	467.3	157.3	547.3	91.7
73.5°	6517.5	7337.4	2839.5	442.4	145.0	464.1	72.2
74°	5865.6	6701.4	2799.4	415.8	123.7	368.5	54.3
74.5°	5227.4	6057.0	2764.0	390.5	109.3	275.8	41.4
75°	4963.4	5500.1	2733.5	366.2	102.7	211.2	31.8
75.5°	4927.3	5039.8	2708.6	342.2	97.4	147.8	28.5
76°	5061.0	4709.5	2694.8	317.7	91.9	84.3	26.5
76.5°	5069.0	4543.2	2697.1	290.7	85.8	20.8	24.4
77°	4658.4	4638.4	2708.9	263.7	74.9	9.1	22.3
77.5°	3652.9	4849.2	2746.2	236.7	62.8	7.8	20.1
78°	2414.3	4951.6	2813.9	209.6	53.6	7.7	18.2
78.5°	2014.6	4624.3	2908.8	182.6	43.0	8.1	16.5
79°	1613.6	3844.4	3015.7	158.2	33.6	8.6	15.1
79.5°	1211.8	2862.1	3105.4	137.6	26.7	9.4	13.9
80°	811.5	2345.3	3151.8	122.4	22.0	10.1	12.8
80.5°	420.4	1858.1	3151.6	109.3	18.4	10.7	11.9
81°	414.7	1370.9	3108.2	98.2	15.4	11.1	11.0
81.5°	429.0	883.4	3031.6	88.3	12.2	11.3	10.4
82°	445.5	395.9	2911.7	78.9	9.5	11.3	9.8
82.5°	456.7	360.3	2742.3	70.4	7.0	11.3	9.3
83°	446.8	339.3	2528.7	62.6	6.1	11.3	9.0
83.5°	403.5	333.9	2242.8	55.3	5.8	11.3	8.8
84°	356.9	340.5	1946.3	49.0	5.6	11.1	8.6
84.5°	328.9	338.9	1656.3	43.3	5.5	10.9	8.5
85°	309.6	333.8	1399.0	38.0	5.3	10.7	8.4
85.5°	297.8	308.6	1177.4	33.4	5.2	10.4	8.3
86°	288.1	280.6	998.1	29.2	5.1	10.0	8.3
86.5°	273.7	252.8	885.4	25.3	4.9	9.6	8.2
87°	265.9	225.0	772.6	21.8	4.8	9.1	8.2
87.5°	268.1	197.2	659.9	18.3	4.7	8.6	8.2
88°	270.9	184.1	547.2	15.1	4.6	8.1	8.2
88.5°	270.3	169.7	435.2	12.3	4.5	7.6	8.3
89°	267.1	161.6	395.0	10.3	4.5	7.2	8.5
89.5°	261.7	157.9	361.7	8.2	4.4	6.8	8.7

REPORT NUMBER: P1197229

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
90°	252.8	157.5	328.2	7.2	4.4	6.5	8.8
90.5°	238.2	159.4	298.4	6.9	4.4	6.3	9.0
91°	216.9	161.3	275.5	6.6	4.4	6.2	9.2
91.5°	188.9	161.9	254.9	6.4	4.4	6.2	9.4
92°	157.8	159.0	236.7	6.2	4.4	6.1	9.6
92.5°	131.3	150.8	218.6	6.0	4.4	6.1	9.8
93°	111.4	138.4	193.5	5.9	4.5	6.1	10.0
93.5°	95.2	125.5	144.1	5.8	4.5	6.1	10.3
94°	81.9	116.8	109.9	5.7	4.6	6.3	10.5
94.5°	71.2	109.9	66.3	5.5	4.7	6.4	10.7
95°	64.8	102.1	47.1	5.4	4.8	6.6	11.0
95.5°	62.3	91.8	35.8	5.3	4.9	6.7	11.2
96°	61.6	78.7	28.0	5.2	5.0	6.9	11.5
96.5°	60.4	64.9	24.3	5.2	5.2	7.1	11.8
97°	56.6	52.4	22.4	5.1	5.3	7.3	12.1
97.5°	51.4	40.8	20.8	5.1	5.5	7.5	12.4
98°	43.3	26.1	19.0	5.1	5.6	7.8	12.7
98.5°	33.1	10.4	17.3	5.0	5.8	8.0	12.9
99°	18.5	5.5	15.6	5.0	6.0	8.2	13.1
99.5°	7.6	4.0	14.0	5.0	6.2	8.4	13.4
100°	5.5	3.2	12.6	5.0	6.4	8.7	13.6
100.5°	4.3	2.8	11.2	5.0	6.6	8.9	13.9
101°	3.6	2.6	10.0	5.0	6.9	9.1	14.2
101.5°	3.0	2.5	9.0	5.0	7.1	9.4	14.4
102°	2.8	2.3	8.1	5.0	7.3	9.6	14.7
102.5°	2.8	2.2	7.3	5.0	7.5	9.9	15.0
103°	2.7	2.2	6.6	5.1	7.7	10.1	15.2
103.5°	2.7	2.1	6.0	5.1	7.9	10.4	15.5
104°	2.6	2.0	5.5	5.2	8.2	10.6	15.7
104.5°	2.5	2.0	5.0	5.3	8.4	10.9	16.0
105°	2.4	2.0	4.7	5.4	8.6	11.1	16.2
105.5°	2.3	2.0	4.3	5.5	8.8	11.4	16.4
106°	2.2	1.9	4.1	5.6	9.1	11.6	16.6
106.5°	2.1	1.9	3.8	5.8	9.3	11.9	16.9
107°	2.0	1.9	3.5	5.9	9.5	12.1	17.1
107.5°	1.9	1.9	3.2	6.0	9.7	12.3	17.3
108°	1.9	1.9	3.0	6.1	10.0	12.6	17.6
108.5°	1.8	1.9	2.8	6.3	10.2	12.8	17.8
109°	1.8	1.9	2.7	6.4	10.4	13.0	17.9
109.5°	1.7	1.8	2.7	6.6	10.6	13.3	18.1
110°	1.7	1.8	2.7	6.7	10.9	13.5	18.3
110.5°	1.7	1.8	2.7	6.8	11.1	13.7	18.4
111°	1.6	1.7	2.7	7.0	11.3	14.0	18.6
111.5°	1.6	1.7	2.8	7.1	11.6	14.2	18.8
112°	1.5	1.7	2.8	7.2	11.8	14.5	19.0

REPORT NUMBER: P1197229

CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
112.5°	1.5	1.7	2.9	7.3	12.0	14.7	19.1
113°	1.5	1.7	2.9	7.5	12.3	15.0	19.3
113.5°	1.6	1.7	3.0	7.6	12.5	15.2	19.5
114°	1.6	1.7	3.1	7.7	12.7	15.4	19.6
114.5°	1.6	1.7	3.2	7.8	12.9	15.6	19.8
115°	1.6	1.7	3.3	7.9	13.1	15.9	20.0
115.5°	1.6	1.7	3.4	8.0	13.3	16.1	20.1
116°	1.7	1.7	3.5	8.2	13.5	16.3	20.2
116.5°	1.7	1.8	3.6	8.3	13.7	16.5	20.4
117°	1.7	1.8	3.7	8.4	13.9	16.7	20.5
117.5°	1.8	1.9	3.9	8.5	14.1	16.9	20.6
118°	1.8	2.0	4.0	8.6	14.3	17.1	20.7
118.5°	1.9	2.1	4.1	8.7	14.5	17.3	20.8
119°	1.9	2.1	4.2	8.9	14.6	17.4	21.0
119.5°	2.0	2.2	4.4	9.0	14.8	17.6	21.1
120°	2.0	2.3	4.5	9.1	15.0	17.8	21.2
120.5°	2.1	2.4	4.6	9.2	15.1	17.9	21.3
121°	2.1	2.4	4.7	9.4	15.3	18.0	21.4
121.5°	2.2	2.5	4.9	9.5	15.5	18.2	21.5
122°	2.2	2.6	5.0	9.6	15.6	18.3	21.5
122.5°	2.3	2.7	5.1	9.8	15.8	18.5	21.6
123°	2.3	2.8	5.3	9.9	15.9	18.7	21.6
123.5°	2.4	2.9	5.4	10.0	16.1	18.8	21.6
124°	2.4	3.0	5.6	10.2	16.2	18.9	21.7
124.5°	2.5	3.0	5.7	10.3	16.4	19.0	21.7
125°	2.6	3.1	5.8	10.4	16.5	19.1	21.7
125.5°	2.6	3.2	6.0	10.6	16.6	19.2	21.8
126°	2.7	3.3	6.1	10.7	16.8	19.3	21.8
126.5°	2.8	3.5	6.3	10.9	16.9	19.4	21.8
127°	2.9	3.6	6.4	11.0	17.0	19.5	21.9
127.5°	2.9	3.7	6.5	11.1	17.1	19.7	21.9
128°	3.0	3.8	6.7	11.3	17.2	19.8	21.9
128.5°	3.1	3.9	6.8	11.4	17.3	19.9	21.9
129°	3.2	4.1	7.0	11.6	17.4	20.0	21.9
129.5°	3.3	4.2	7.1	11.7	17.5	20.1	22.0
130°	3.4	4.3	7.3	11.9	17.6	20.2	22.1
130.5°	3.5	4.4	7.4	12.0	17.7	20.4	22.1
131°	3.6	4.5	7.6	12.2	17.8	20.5	22.1
131.5°	3.7	4.7	7.7	12.3	17.9	20.6	22.2
132°	3.8	4.8	7.9	12.4	18.0	20.7	22.3
132.5°	3.8	4.9	8.0	12.6	18.1	20.8	22.3
133°	3.9	5.0	8.1	12.7	18.2	21.0	22.4
133.5°	4.0	5.2	8.3	12.9	18.3	21.1	22.5
134°	4.1	5.3	8.4	13.0	18.4	21.2	22.5
134.5°	4.2	5.4	8.6	13.1	18.5	21.3	22.6

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CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
135°	4.3	5.6	8.7	13.3	18.5	21.4	22.7
135.5°	4.4	5.7	8.9	13.4	18.6	21.5	22.8
136°	4.6	5.8	9.0	13.5	18.7	21.6	22.8
136.5°	4.7	6.0	9.2	13.7	18.8	21.7	22.9
137°	4.8	6.1	9.3	13.8	18.8	21.7	23.0
137.5°	4.9	6.2	9.5	14.0	18.9	21.8	23.1
138°	5.1	6.4	9.6	14.1	19.0	21.8	23.2
138.5°	5.2	6.5	9.8	14.2	19.1	21.9	23.3
139°	5.3	6.7	9.9	14.4	19.1	21.9	23.4
139.5°	5.5	6.8	10.1	14.5	19.2	21.9	23.5
140°	5.6	7.0	10.2	14.6	19.3	22.0	23.5
140.5°	5.7	7.2	10.4	14.8	19.3	22.0	23.5
141°	5.9	7.4	10.5	14.9	19.4	22.0	23.5
141.5°	6.0	7.5	10.7	15.0	19.5	22.1	23.5
142°	6.2	7.8	10.8	15.1	19.6	22.1	23.5
142.5°	6.3	7.9	11.0	15.3	19.6	22.1	23.5
143°	6.5	8.1	11.1	15.4	19.7	22.1	23.5
143.5°	6.6	8.3	11.3	15.5	19.7	22.1	23.5
144°	6.8	8.5	11.5	15.6	19.8	22.1	23.5
144.5°	7.0	8.6	11.6	15.7	19.9	22.1	23.5
145°	7.1	8.8	11.8	15.8	19.9	22.1	23.5
145.5°	7.3	9.0	11.9	16.0	19.9	22.1	23.4
146°	7.4	9.2	12.1	16.1	20.0	22.1	23.4
146.5°	7.6	9.3	12.2	16.2	20.1	22.1	23.4
147°	7.8	9.5	12.4	16.3	20.1	22.1	23.3
147.5°	7.9	9.6	12.5	16.4	20.2	22.1	23.3
148°	8.0	9.8	12.7	16.5	20.2	22.1	23.2
148.5°	8.2	9.9	12.8	16.6	20.3	22.1	23.2
149°	8.3	10.1	13.0	16.8	20.4	22.2	23.2
149.5°	8.5	10.2	13.1	16.9	20.4	22.2	23.2
150°	8.6	10.4	13.2	17.0	20.5	22.2	23.2
150.5°	8.8	10.5	13.4	17.1	20.6	22.2	23.2
151°	8.9	10.7	13.5	17.2	20.6	22.3	23.2
151.5°	9.1	10.8	13.7	17.4	20.7	22.3	23.1
152°	9.2	11.0	13.8	17.5	20.8	22.3	23.1
152.5°	9.4	11.1	14.0	17.6	20.9	22.4	23.1
153°	9.5	11.3	14.2	17.8	20.9	22.4	23.0
153.5°	9.7	11.5	14.3	17.9	21.0	22.5	23.0
154°	9.8	11.6	14.5	18.0	21.1	22.5	23.0
154.5°	10.0	11.8	14.6	18.1	21.2	22.6	23.0
155°	10.1	11.9	14.8	18.3	21.3	22.6	22.9
155.5°	10.3	12.1	15.0	18.4	21.4	22.7	22.9
156°	10.4	12.3	15.1	18.5	21.4	22.7	22.9
156.5°	10.6	12.4	15.3	18.6	21.5	22.7	22.9
157°	10.8	12.6	15.4	18.7	21.5	22.7	22.9

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CATALOG NUMBER: AWPS150S-BZ-BZ-HIGH-5000K-POSITION 15

CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
157.5°	10.9	12.7	15.6	18.8	21.6	22.7	22.9
158°	11.1	12.9	15.7	18.9	21.6	22.7	22.8
158.5°	11.3	13.0	15.9	19.0	21.7	22.7	22.8
159°	11.4	13.2	16.0	19.1	21.7	22.7	22.8
159.5°	11.6	13.4	16.2	19.2	21.8	22.7	22.8
160°	11.8	13.5	16.3	19.3	21.8	22.7	22.8
160.5°	12.0	13.7	16.5	19.4	21.9	22.7	22.8
161°	12.1	13.9	16.6	19.5	21.9	22.8	22.8
161.5°	12.3	14.0	16.7	19.6	21.9	22.8	22.7
162°	12.5	14.2	16.9	19.7	22.0	22.8	22.7
162.5°	12.7	14.4	17.0	19.8	22.0	22.8	22.7
163°	12.9	14.5	17.2	19.8	22.1	22.8	22.6
163.5°	13.0	14.7	17.3	19.9	22.1	22.8	22.5
164°	13.2	14.9	17.5	20.0	22.1	22.8	22.4
164.5°	13.4	15.1	17.6	20.1	22.1	22.7	22.3
165°	13.6	15.3	17.8	20.2	22.2	22.7	22.3
165.5°	13.8	15.4	17.9	20.3	22.2	22.7	22.2
166°	14.0	15.6	18.1	20.4	22.3	22.7	22.2
166.5°	14.2	15.8	18.2	20.5	22.3	22.7	22.2
167°	14.4	16.0	18.4	20.6	22.4	22.7	22.2
167.5°	14.6	16.2	18.5	20.7	22.4	22.7	22.2
168°	14.9	16.4	18.7	20.8	22.4	22.7	22.1
168.5°	15.1	16.6	18.9	20.9	22.4	22.7	22.1
169°	15.4	16.8	19.0	21.0	22.4	22.7	22.0
169.5°	15.6	17.0	19.1	21.0	22.4	22.7	21.9
170°	15.8	17.2	19.3	21.1	22.4	22.7	21.9
170.5°	16.1	17.4	19.5	21.2	22.4	22.7	21.8
171°	16.3	17.6	19.6	21.2	22.4	22.7	21.7
171.5°	16.5	17.8	19.7	21.3	22.4	22.7	21.6
172°	16.6	17.9	19.8	21.3	22.4	22.7	21.5
172.5°	16.8	18.0	19.9	21.3	22.4	22.6	21.4
173°	17.0	18.2	20.0	21.4	22.3	22.5	21.3
173.5°	17.2	18.4	20.1	21.4	22.3	22.5	21.1
174°	17.4	18.5	20.2	21.5	22.3	22.4	21.0
174.5°	17.6	18.7	20.3	21.5	22.3	22.4	20.9
175°	17.7	18.9	20.5	21.5	22.3	22.3	20.8
175.5°	17.9	19.0	20.6	21.6	22.3	22.3	20.7
176°	18.1	19.2	20.7	21.6	22.3	22.2	20.6
176.5°	18.2	19.3	20.8	21.6	22.2	22.1	20.4
177°	18.4	19.5	20.9	21.7	22.2	22.1	20.3
177.5°	18.6	19.6	21.0	21.7	22.1	22.0	20.1
178°	18.8	19.8	21.1	21.8	22.1	22.0	20.0
178.5°	18.9	20.0	21.2	21.8	22.1	21.9	19.9
179°	19.1	20.1	21.3	21.8	22.1	21.8	19.7
179.5°	19.3	20.3	21.4	21.9	22.1	21.7	19.6



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CANDELA DISTRIBUTION (continued):

	0°	30°	60°	90°	120°	150°	180°
180°	19.4	19.4	19.4	19.4	19.4	19.4	19.4

(END OF REPORT)