

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: NEO-RAY

Report Number: P1007509

Luminaire Tested: S123IP-B1195UB2750-4F0-XX-W2A-4_3500K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007509
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-1807-864-17)
Test Lab: INNOVATION CENTER
Issue Date: 5/5/2025
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: NEO-RAY
Catalog Number: S123IP-B1195UB2750-4F0-XX-W2A-4_3500K
Description: Define 3 Indirect Pendant with 3500K BioUP LEDs {m-DER=0.721} {m-EER=0.792}
Light Source: -
Ballast/Driver: -

Summary

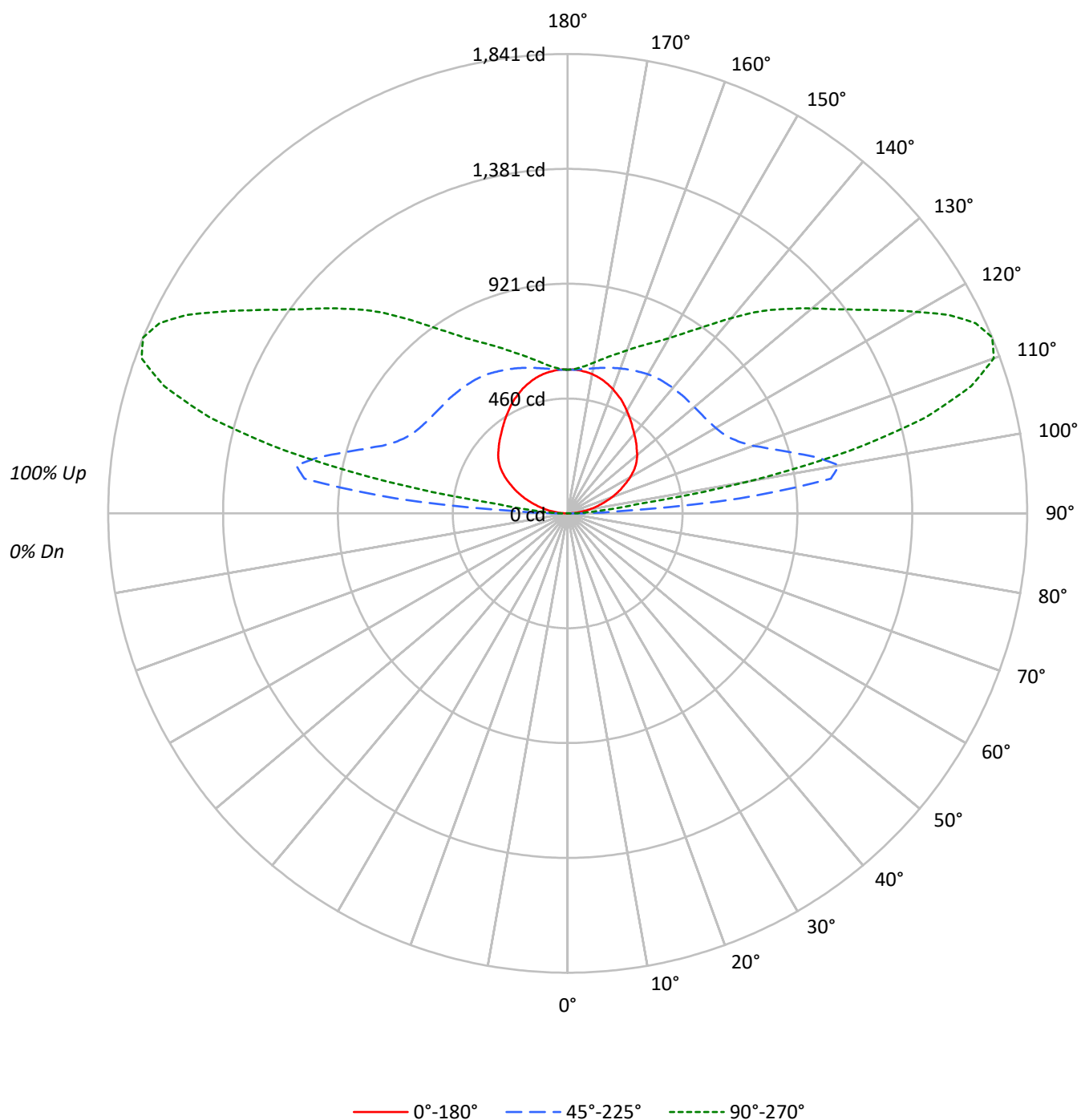
Lumens per Lamp: N/A
Luminaire Lumens: 4336.0 lumens
Efficiency: N/A
Efficacy: 123.9 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 35
Input Voltage (V):
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: 24 FT

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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20				20
RC	80				70				50				30				10				0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0
RCR																					
0	95	95	95	95	81	81	81	81	56	56	56	32	32	32	10	10	10	10	10	10	0
1	87	83	79	76	74	71	68	65	48	47	45	28	27	26	9	9	8	8	8	8	0
2	79	72	66	62	67	62	57	53	42	40	37	24	23	22	8	7	7	7	7	7	0
3	72	63	56	51	61	54	49	44	37	34	31	21	20	18	7	6	6	6	6	6	0
4	65	56	48	43	56	48	42	37	33	29	26	19	17	16	6	6	5	5	5	5	0
5	60	49	42	36	51	42	36	32	29	25	22	17	15	13	5	5	4	4	4	4	0
6	55	44	36	31	47	38	32	27	26	22	19	15	13	11	5	4	4	4	4	4	0
7	50	39	32	27	43	34	28	23	23	19	17	14	11	10	4	4	3	3	3	3	0
8	47	35	28	23	40	30	24	20	21	17	14	12	10	9	4	3	3	3	3	3	0
9	43	32	25	20	37	27	22	18	19	15	13	11	9	8	4	3	3	3	3	3	0
10	40	29	22	18	34	25	19	16	17	14	11	10	8	7	3	3	2	2	2	2	0

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	0	0	0
5°	0	0	0
10°	0	0	0
15°	0	0	0
20°	0	0	0
25°	0	0	0
30°	0	0	0
35°	0	0	0
40°	0	0	0
45°	0	0	0
50°	0	0	0
55°	0	0	0
60°	0	0	0
65°	0	0	0
70°	0	0	0
75°	0	0	0
80°	0	0	0
85°	0	0	0

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°
Vertical Angle: 0°
Luminance: 0 cd/sqm

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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	0.0	0.0
10°-20°	0.0	0.0
20°-30°	0.0	0.0
30°-40°	0.0	0.0
40°-50°	0.0	0.0
50°-60°	0.0	0.0
60°-70°	0.0	0.0
70°-80°	0.0	0.0
80°-90°	3.2	0.1
90°-100°	312.6	7.2
100°-110°	915.1	21.1
110°-120°	893.6	20.6
120°-130°	711.7	16.4
130°-140°	561.5	12.9
140°-150°	418.9	9.7
150°-160°	292.1	6.7
160°-170°	171.6	4.0
170°-180°	55.8	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	3.2	0.1
90°-120°	2121.3	48.9
90°-150°	3813.4	87.9
90°-180°	4333.0	99.9
0°-180°	4336.0	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	0	0	0	0	0	
5°	0	0	0	0	0	0
15°	0	0	0	0	0	0
25°	0	0	0	0	0	0
35°	0	0	0	0	0	0
45°	0	0	0	0	0	0
55°	0	0	0	0	0	0
65°	0	0	0	0	0	0
75°	0	0	0	0	0	0
85°	0	0	0	0	0	0
90°	2	14	29	33	34	3
95°	40	129	691	202	135	42
105°	135	200	938	1639	1483	144
115°	239	298	717	1572	1804	237
125°	332	392	669	1213	1422	295
135°	389	465	660	999	1153	301
145°	444	509	652	819	901	278
155°	505	545	631	717	747	232
165°	552	567	604	641	652	155
175°	575	575	580	588	586	55
180°	576	576	576	576	576	

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CANDELA DISTRIBUTION (FULL):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	2.3	4.7	7.0	10.5	12.8	15.2	18.7	22.2	25.7	29.2	28.0
92.5°	17.5	25.7	37.3	47.8	59.5	80.5	117.8	179.6	240.2	216.9	162.1
95°	39.6	43.1	56.0	75.8	106.1	151.6	250.7	424.4	615.7	691.4	560.9
97.5°	63.0	64.1	74.6	92.1	122.4	172.6	270.5	472.2	794.1	1063.4	1099.6
100°	86.3	87.5	95.6	111.9	139.9	185.4	267.0	439.6	746.2	1104.2	1333.9
102.5°	110.8	113.1	120.1	135.3	159.7	200.6	271.7	411.6	676.3	1028.4	1345.6
105°	135.3	138.8	145.8	159.7	181.9	218.0	281.0	401.1	621.5	937.5	1272.1
107.5°	160.9	164.4	171.4	185.4	206.4	240.2	296.2	398.8	581.8	857.0	1167.2
110°	188.9	192.4	198.2	211.0	230.9	263.5	316.0	404.6	560.9	790.6	1069.2



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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	214.5	218.0	223.9	236.7	256.5	288.0	335.8	416.3	549.2	746.2	984.1
115°	239.0	243.7	250.7	262.4	282.2	313.7	358.0	429.1	548.0	717.1	918.8
117.5°	263.5	269.3	275.2	285.7	307.8	337.0	381.3	445.4	549.2	697.3	875.7
120°	289.2	292.7	298.5	310.2	332.3	361.5	403.4	464.1	553.9	684.4	843.0
122.5°	311.3	314.8	320.7	333.5	354.5	386.0	426.8	481.6	562.0	676.3	816.2
125°	332.3	334.6	341.6	354.5	376.6	408.1	448.9	500.2	570.2	669.3	794.1
127.5°	348.6	352.1	360.3	373.1	397.6	429.1	468.7	515.4	579.5	665.8	773.1
130°	363.8	367.3	377.8	391.8	416.3	447.7	486.2	530.5	588.8	662.3	756.7
132.5°	375.5	380.1	391.8	409.3	433.8	464.1	501.4	544.5	595.8	661.1	741.6
135°	389.4	394.1	406.9	424.4	448.9	480.4	516.5	556.2	602.8	660.0	728.8
137.5°	402.3	406.9	419.8	438.4	462.9	492.1	527.0	565.5	607.5	657.6	717.1
140°	415.1	420.9	432.6	451.2	474.6	503.7	537.5	572.5	612.2	656.5	706.6
142.5°	429.1	433.8	446.6	462.9	486.2	513.0	545.7	579.5	615.7	654.1	697.3
145°	444.3	447.7	458.2	475.7	495.6	522.4	552.7	584.2	616.8	651.8	689.1
147.5°	459.4	461.7	472.2	487.4	507.2	530.5	558.5	587.7	616.8	648.3	681.0
150°	474.6	475.7	485.1	500.2	516.5	537.5	564.4	588.8	616.8	643.6	672.8
152.5°	489.7	489.7	499.1	511.9	525.9	545.7	567.8	591.2	613.3	637.8	663.5
155°	504.9	504.9	511.9	523.5	536.4	552.7	572.5	591.2	611.0	630.8	654.1
157.5°	516.5	517.7	523.5	534.0	545.7	558.5	574.8	592.3	607.5	625.0	643.6
160°	530.5	530.5	535.2	544.5	552.7	564.4	578.3	592.3	605.2	618.0	633.1
162.5°	541.0	541.0	544.5	551.5	558.5	567.8	579.5	591.2	600.5	611.0	622.7
165°	551.5	550.4	552.7	558.5	563.2	571.3	580.7	588.8	595.8	604.0	613.3
167.5°	559.7	558.5	559.7	564.4	567.8	573.7	580.7	587.7	591.2	597.0	604.0
170°	566.7	564.4	565.5	569.0	571.3	573.7	579.5	584.2	586.5	590.0	595.8
172.5°	571.3	570.2	570.2	572.5	573.7	574.8	579.5	583.0	583.0	584.2	587.7
175°	574.8	573.7	572.5	574.8	574.8	576.0	578.3	580.7	579.5	579.5	581.8
177.5°	577.2	576.0	574.8	576.0	576.0	576.0	577.2	579.5	577.2	576.0	577.2
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
0°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
2.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
7.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
10°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
12.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
15°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
17.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
20°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
22.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
25°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
27.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
30°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
32.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
35°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
37.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
40°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
42.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
45°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
47.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
50°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
52.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
55°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
57.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
60°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
62.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
65°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
67.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
70°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
72.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
75°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
80°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	29.2	30.3	31.5	33.8	32.6	33.8	35.0	33.8
92.5°	115.4	89.8	78.1	70.0	67.6	63.0	64.1	61.8
95°	419.8	284.5	222.7	180.7	158.6	148.1	139.9	135.3
97.5°	964.3	727.6	573.7	440.8	362.6	318.3	290.3	277.5
100°	1374.7	1280.3	1143.9	978.3	860.5	775.4	729.9	731.1
102.5°	1511.2	1531.0	1465.7	1375.9	1290.8	1227.8	1191.7	1157.9
105°	1515.8	1632.4	1654.6	1624.3	1570.6	1526.3	1489.0	1483.2
107.5°	1445.9	1628.9	1719.9	1751.4	1744.4	1723.4	1708.2	1695.4
110°	1336.3	1550.8	1697.7	1779.3	1812.0	1821.3	1819.0	1816.6

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1227.8	1448.2	1617.3	1728.0	1794.5	1828.3	1840.0	1841.1
115°	1134.5	1337.4	1508.8	1635.9	1723.4	1774.7	1798.0	1803.8
117.5°	1062.2	1241.8	1399.2	1531.0	1621.9	1679.1	1714.0	1722.2
120°	1007.4	1164.8	1304.8	1422.5	1514.7	1579.9	1607.9	1614.9
122.5°	964.3	1103.0	1230.1	1337.4	1416.7	1473.8	1505.3	1514.7
125°	927.0	1054.1	1166.0	1259.3	1333.9	1385.2	1414.4	1422.5
127.5°	893.2	1008.6	1111.2	1197.5	1265.1	1309.4	1336.3	1343.2
130°	861.7	966.6	1061.1	1140.4	1202.2	1244.1	1268.6	1278.0
132.5°	832.5	927.0	1013.3	1087.9	1145.0	1187.0	1208.0	1213.8
135°	806.9	889.7	965.5	1031.9	1089.1	1124.0	1145.0	1153.2
137.5°	782.4	852.4	920.0	979.5	1028.4	1064.6	1082.1	1089.1
140°	761.4	820.9	876.8	927.0	971.3	1003.9	1022.6	1021.4
142.5°	741.6	790.6	837.2	879.2	915.3	943.3	959.6	958.5
145°	726.4	764.9	802.2	836.0	865.2	889.7	899.0	901.3
147.5°	713.6	745.1	776.6	801.1	824.4	841.9	851.2	852.4
150°	699.6	726.4	750.9	773.1	790.6	803.4	810.4	810.4
152.5°	686.8	708.9	729.9	747.4	760.2	771.9	775.4	775.4
155°	674.0	692.6	710.1	724.1	734.6	743.9	746.2	747.4
157.5°	660.0	676.3	690.3	701.9	711.3	718.3	720.6	720.6
160°	648.3	661.1	672.8	681.0	689.1	696.1	696.1	694.9
162.5°	634.3	644.8	655.3	662.3	667.0	672.8	672.8	671.6
165°	622.7	629.6	637.8	643.6	648.3	653.0	651.8	651.8
167.5°	612.2	618.0	622.7	627.3	629.6	633.1	632.0	632.0
170°	601.7	605.2	609.8	612.2	613.3	615.7	614.5	614.5
172.5°	592.3	594.7	598.2	599.3	599.3	601.7	599.3	598.2
175°	584.2	585.3	587.7	587.7	587.7	588.8	587.7	586.5
177.5°	578.3	579.5	580.7	580.7	579.5	580.7	578.3	578.3
180°	576.0	576.0	576.0	576.0	576.0	576.0	576.0	576.0

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