

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: P1007479

Luminaire Tested: S123IP-B1025UB2750-4F0-XX-W2A-4_3500K

Issue Date: 5/5/2025

Test Information

Test Method: LM-79-2019
Report Number: P1007479
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-B1025UB2750-4F0-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

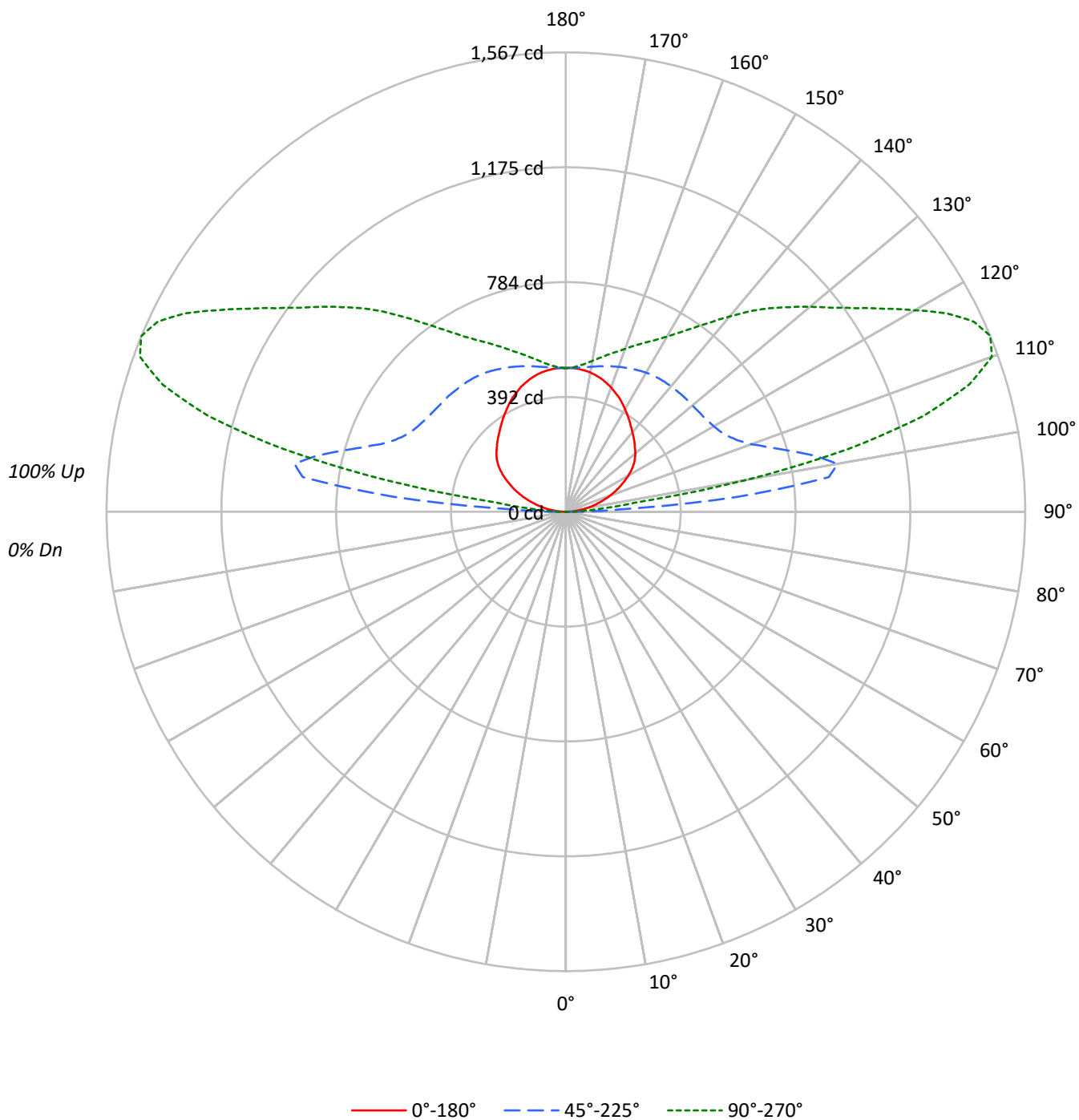
Lumens per Lamp: N/A
Luminaire Lumens: 3691.0 lumens
Efficiency: N/A
Efficacy: 129.5 lumens/watt
Spacing Criteria (0/90/45): - / - / -
Luminous Opening: Rectangular (W 0.25' x L: 4' x H: 0')
CIE Type: Indirect

Input Watts (W): 28.5
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°	2.7	0.1
90°-100°	266.1	7.2
100°-110°	779.0	21.1
110°-120°	760.7	20.6
120°-130°	605.8	16.4
130°-140°	478.0	12.9
140°-150°	356.6	9.7
150°-160°	248.6	6.7
160°-170°	146.0	4.0
170°-180°	47.5	1.3
0°-30°	0.0	0.0
0°-40°	0.0	0.0
0°-60°	0.0	0.0
0°-90°	2.7	0.1
90°-120°	1805.8	48.9
90°-150°	3246.1	87.9
90°-180°	3688.0	99.9
0°-180°	3691.0	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	12	25	28	29	3
95°	34	110	589	172	115	36
105°	115	170	798	1396	1262	122
115°	204	254	610	1338	1536	201
125°	283	334	570	1032	1211	251
135°	332	396	562	850	982	256
145°	378	433	555	697	767	237
155°	430	464	537	610	636	198
165°	470	483	514	545	555	132
175°	489	490	493	500	499	46
180°	490	490	490	490	490	



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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°	2.0	4.0	6.0	8.9	10.9	12.9	15.9	18.9	21.8	24.8	23.8
92.5°	14.9	21.8	31.8	40.7	50.6	68.5	100.2	152.9	204.5	184.6	138.0
95°	33.7	36.7	47.6	64.5	90.3	129.0	213.4	361.3	524.1	588.6	477.4
97.5°	53.6	54.6	63.5	78.4	104.2	146.9	230.3	402.0	675.9	905.2	936.0
100°	73.4	74.4	81.4	95.3	119.1	157.8	227.3	374.2	635.2	940.0	1135.5
102.5°	94.3	96.3	102.2	115.1	136.0	170.7	231.3	350.4	575.7	875.4	1145.4
105°	115.1	118.1	124.1	136.0	154.8	185.6	239.2	341.4	529.0	798.0	1082.9
107.5°	137.0	140.0	145.9	157.8	175.7	204.5	252.1	339.5	495.3	729.5	993.6
110°	160.8	163.8	168.7	179.7	196.5	224.3	269.0	344.4	477.4	673.0	910.2

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CANDELA DISTRIBUTION (continued):

	0°	5°	10°	15°	20°	25°	30°	35°	40°	45°	50°
112.5°	182.6	185.6	190.6	201.5	218.4	245.2	285.9	354.3	467.5	635.2	837.7
115°	203.5	207.4	213.4	223.3	240.2	267.0	304.7	365.3	466.5	610.4	782.1
117.5°	224.3	229.3	234.2	243.2	262.0	286.9	324.6	379.2	467.5	593.6	745.4
120°	246.2	249.1	254.1	264.0	282.9	307.7	343.4	395.0	471.5	582.6	717.6
122.5°	265.0	268.0	273.0	283.9	301.7	328.5	363.3	409.9	478.4	575.7	694.8
125°	282.9	284.9	290.8	301.7	320.6	347.4	382.1	425.8	485.4	569.7	675.9
127.5°	296.8	299.8	306.7	317.6	338.5	365.3	399.0	438.7	493.3	566.8	658.1
130°	309.7	312.7	321.6	333.5	354.3	381.1	413.9	451.6	501.2	563.8	644.2
132.5°	319.6	323.6	333.5	348.4	369.2	395.0	426.8	463.5	507.2	562.8	631.3
135°	331.5	335.5	346.4	361.3	382.1	408.9	439.7	473.5	513.2	561.8	620.4
137.5°	342.4	346.4	357.3	373.2	394.0	418.9	448.6	481.4	517.1	559.8	610.4
140°	353.4	358.3	368.2	384.1	404.0	428.8	457.6	487.3	521.1	558.8	601.5
142.5°	365.3	369.2	380.2	394.0	413.9	436.7	464.5	493.3	524.1	556.8	593.6
145°	378.2	381.1	390.1	405.0	421.8	444.7	470.5	497.3	525.1	554.8	586.6
147.5°	391.1	393.1	402.0	414.9	431.8	451.6	475.4	500.3	525.1	551.9	579.7
150°	404.0	405.0	412.9	425.8	439.7	457.6	480.4	501.2	525.1	547.9	572.7
152.5°	416.9	416.9	424.8	435.7	447.6	464.5	483.4	503.2	522.1	542.9	564.8
155°	429.8	429.8	435.7	445.7	456.6	470.5	487.3	503.2	520.1	537.0	556.8
157.5°	439.7	440.7	445.7	454.6	464.5	475.4	489.3	504.2	517.1	532.0	547.9
160°	451.6	451.6	455.6	463.5	470.5	480.4	492.3	504.2	515.1	526.1	539.0
162.5°	460.5	460.5	463.5	469.5	475.4	483.4	493.3	503.2	511.2	520.1	530.0
165°	469.5	468.5	470.5	475.4	479.4	486.4	494.3	501.2	507.2	514.1	522.1
167.5°	476.4	475.4	476.4	480.4	483.4	488.3	494.3	500.3	503.2	508.2	514.1
170°	482.4	480.4	481.4	484.4	486.4	488.3	493.3	497.3	499.3	502.2	507.2
172.5°	486.4	485.4	485.4	487.3	488.3	489.3	493.3	496.3	496.3	497.3	500.3
175°	489.3	488.3	487.3	489.3	489.3	490.3	492.3	494.3	493.3	493.3	495.3
177.5°	491.3	490.3	489.3	490.3	490.3	490.3	491.3	493.3	491.3	490.3	491.3
180°	490.3	490.3	490.3	490.3	490.3	490.3	490.3	490.3	490.3	490.3	490.3

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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°	24.8	25.8	26.8	28.8	27.8	28.8	29.8	28.8
92.5°	98.3	76.4	66.5	59.6	57.6	53.6	54.6	52.6
95°	357.3	242.2	189.6	153.8	135.0	126.1	119.1	115.1
97.5°	820.9	619.4	488.3	375.2	308.7	271.0	247.1	236.2
100°	1170.2	1089.8	973.7	832.8	732.5	660.1	621.3	622.3
102.5°	1286.4	1303.2	1247.7	1171.2	1098.8	1045.2	1014.4	985.6
105°	1290.3	1389.6	1408.4	1382.6	1337.0	1299.3	1267.5	1262.5
107.5°	1230.8	1386.6	1464.0	1490.8	1484.9	1467.0	1454.1	1443.2
110°	1137.5	1320.1	1445.2	1514.7	1542.4	1550.4	1548.4	1546.4

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CANDELA DISTRIBUTION (continued):

	55°	60°	65°	70°	75°	80°	85°	90°
112.5°	1045.2	1232.8	1376.7	1471.0	1527.6	1556.3	1566.3	1567.3
115°	965.8	1138.5	1284.4	1392.6	1467.0	1510.7	1530.5	1535.5
117.5°	904.2	1057.1	1191.1	1303.2	1380.7	1429.3	1459.1	1466.0
120°	857.6	991.6	1110.7	1210.9	1289.3	1344.9	1368.7	1374.7
122.5°	820.9	939.0	1047.2	1138.5	1206.0	1254.6	1281.4	1289.3
125°	789.1	897.3	992.6	1072.0	1135.5	1179.2	1204.0	1210.9
127.5°	760.3	858.6	945.9	1019.4	1076.9	1114.6	1137.5	1143.4
130°	733.5	822.8	903.2	970.7	1023.3	1059.1	1079.9	1087.8
132.5°	708.7	789.1	862.5	926.1	974.7	1010.4	1028.3	1033.3
135°	686.9	757.3	821.8	878.4	927.1	956.8	974.7	981.6
137.5°	666.0	725.6	783.1	833.8	875.4	906.2	921.1	927.1
140°	648.1	698.8	746.4	789.1	826.8	854.6	870.5	869.5
142.5°	631.3	673.0	712.7	748.4	779.2	803.0	816.9	815.9
145°	618.4	651.1	682.9	711.7	736.5	757.3	765.3	767.3
147.5°	607.4	634.2	661.0	681.9	701.7	716.6	724.6	725.6
150°	595.5	618.4	639.2	658.1	673.0	683.9	689.8	689.8
152.5°	584.6	603.5	621.3	636.2	647.2	657.1	660.1	660.1
155°	573.7	589.6	604.5	616.4	625.3	633.3	635.2	636.2
157.5°	561.8	575.7	587.6	597.5	605.5	611.4	613.4	613.4
160°	551.9	562.8	572.7	579.7	586.6	592.6	592.6	591.6
162.5°	540.0	548.9	557.8	563.8	567.7	572.7	572.7	571.7
165°	530.0	536.0	542.9	547.9	551.9	555.8	554.8	554.8
167.5°	521.1	526.1	530.0	534.0	536.0	539.0	538.0	538.0
170°	512.2	515.1	519.1	521.1	522.1	524.1	523.1	523.1
172.5°	504.2	506.2	509.2	510.2	510.2	512.2	510.2	509.2
175°	497.3	498.3	500.3	500.3	500.3	501.2	500.3	499.3
177.5°	492.3	493.3	494.3	494.3	493.3	494.3	492.3	492.3
180°	490.3	490.3	490.3	490.3	490.3	490.3	490.3	490.3

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